LABELLA Associates, D.P.C.
Engineering
Architecture
Environmental
Planning

Periodic Review Report
For Period
September 22, 2014 through October 8, 2015

Former Photech Imaging Site
1000 Driving Park Avenue
Rochester, New York
NYSDEC Site No. B00016

Prepare For:

City of Rochester
Division of Environmental Quality
Rochester, New York

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LaBella Project No. 2151305

November 5, 2015

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1.0 INTRODUCTION & BACKGROUND

1.1 Summary

The Former Photech Imaging Site is located at 1000 Driving Park Avenue, in the City of Rochester, Monroe County (hereinafter referred to as the "Site"). The site location and existing groundwater monitoring well locations are shown on Figure 1.

Based upon the results of site investigation activities, the types of contamination at the Site were identified to require remediation included:

- Polycyclic aromatic hydrocarbons (PAHs);
- Heavy metals including cadmium and silver; and,
- Volatile organic compounds (VOCs).

Remedial actions performed at the Site in accordance with the March 2006 Record of Decision include:

- Asbestos abatement, building and equipment decontamination, and building demolition;
- A design-phase investigation to delineate the extend of soil contamination, and to confirm the extent of groundwater contamination;
- Removal of the silver recovery system;
- Excavation and off-site disposal of contaminated soils exceeding commercial soil cleanup objectives;
- Application of Daramend in Area of Concern 2 and 7;
- Removal of all on-site utilities;
- Development and implementation of a Site Management Plan (SMP) for long term management of remaining contamination as required by the Environmental Easement;
- Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the Site;
- Inclusion in the City of Rochester Building Information System (BIS);
- Periodic certification of the institutional and engineering controls; and,
- Implementation of a long-term groundwater monitoring plan.

The Site was previously remediated under the New York State (NYS) Environmental Restoration Program (ERP) administered by the New York State Department of Environmental Conservation (NYSDEC) and in accordance with State Assistance Contract (SAC) #C303768.

A SMP was prepared for the Site to manage remaining contamination at the Site until the Deed Restriction is extinguished. In accordance with the SMP and the requirements in NYSDEC Division of Environmental Restoration (DER)-10 Technical Guidance for Site Investigation and Remediation, dated May, 2010, and the guidelines provided by NYSDEC, an annual inspection was conducted of all remedial components installed at the Site and the twelve (12) groundwater monitoring wells were sampled. The site-wide inspection was performed on October 7, 2015.

1.2 Effectiveness of the Remedial Program

Progress made during the reporting period toward meeting the remedial objectives for the Site include continued monitoring of groundwater and maintenance of the institutional and engineering controls in accordance with the SMP. Monitoring data from the work completed to date shows that the remedial program is currently meeting the remedial objectives for the Site.

1.3 Compliance

No areas were identified as being currently out of compliance with the SMP requirements. As such, no steps are currently deemed necessary to correct areas of non-compliance.

1.4 Recommendations

Since residual contamination remains at the Site, applicable site management requirements should be continued. No other recommendations are necessary at this time.

2.0 SITE OVERVIEW

The Former Photech Imaging Site is located in an M-1 Industrial District in the City of Rochester, Monroe County, New York. The Site is situated on an approximately 12.5-acre area parcel and was originally developed in 1948 for manufacturing photographic film and paper. Several different companies have owned and operated the facility at the Site for photographic paper and film production since its construction in 1948. The most recent owner, Photech Imaging Systems, Inc., ceased operations and abandoned the facility in 1991. Large amounts of chemicals, wastes, and various supplies and materials were left "as-is" on-Site when the facility was abandoned. In 1994, the NYSDEC and the United States Environmental Protection Agency (USEPA) performed a bulk waste and chemical removal action at the Site. This work successfully removed bulk chemicals from the facility; however, tanks were not certified as "clean"; small containers of chemicals were left in some of the buildings; and residual chemicals remained in some of the process vessels and piping.

Historically a total of 15 former buildings totaling approximately 108,000 square feet of space occupied the Site. The buildings were vandalized following abandonment, with ceilings, walls, piping and equipment severely damaged. As a result, asbestos and chemical residues were distributed throughout many interior areas of the buildings. Additionally, the roofs failed on several of the buildings and there was a fire in 2004 in the former warehouse portion of the facility.

During 2010, the City of Rochester demolished all of the Site buildings including the sub grade tunnels. Prior to demolition, asbestos containing materials and residual chemicals inside the buildings were removed and disposed of. In addition, suspect building materials (e.g. concrete floors) were assessed for chemicals of concern and remediated prior to demolition.

During Site building demolition activities remedial actions were performed to remove soils impacted with Polycyclic Aromatic Hydrocarbon (PAH) Semivolatile Organic Compounds (SVOCs) along the eastern side and a drywell along the western side of Building 11 in order to prevent contaminated materials from entering demolition excavations. A total of 601 tons of contaminated soil was removed from AOC 1A and a total of 95 tons of contaminated soil was removed from AOC 1B and transported offsite for disposal, as a regulated solid waste. A source removal action was performed during building demolition to remove source area soils associated with two (2) former sumps in buildings formerly located within

AOC 7. A total of 170 tons of cadmium-impacted soil was removed from this area for offsite disposal.

Following building demolition activities a design phase investigation was completed to delineate the extent of soil contamination and confirm the extent of groundwater contamination. The design phase investigation data was input into a Geographical Information System (GIS) spatial database and used to develop interpolation models illustrating the areal and vertical extent of contaminated soil removal. This information was utilized to guide remedial actions to remove the silver recovery system, and to excavate and dispose of contaminated soils exceeding the commercial use SCOs. Following excavation of contaminated soil, Daramend was applied to AOC 2 and AOC 7 to further reduce the contaminant mass at the site. Additionally nearly all onsite utilities were removed.

3.0 MONITORING PLAN COMPLIANCE AND REMEDY EVALUATION

3.1 Monitoring Plan Components

Monitoring and laboratory analyses were completed in accordance with the SMP. A summary of the routine monitoring and analyses is provided in the table below.

Monitoring Program	Frequency	Matrix	Analysis
Groundwater	Annually until otherwise approved by NYSDEC and NYSDOH	Liquid	TCL VOCs & RCRA Metals

3.2 Groundwater Monitoring Data

Groundwater monitoring was performed once during the reporting period using low flow sampling methodology in accordance with the SMP. Post-remediation groundwater sampling has included five (5) rounds of sampling in addition to the original two (2) rounds of sampling included in the Final Engineering Report (FER). The Post-remediation groundwater sampling events have occurred on the following dates:

- June 2012
- September 2012
- April 2013
- September 2013
- February 2014
- June 2014
- October 2015

The following is a summary of groundwater sampling results for each of the twelve (12) groundwater monitoring wells at the Site. The results are shown on Figure 2 and Tables 1 and 2. The laboratory analytical report is included as Appendix 1 and the Data Usability Summary Report is included as Appendix 2. Low flow groundwater sampling logs are included in Appendix 3.

RMW-1

No VOCs were detected above the laboratory MDLs during the October 2015 sampling event. VOCs have not been detected in RMW-1 above the NYSDEC TOGS Groundwater Standards during any of the seven (7) post-remediation groundwater sampling events.

No metals were detected at concentrations that exceeded the TOGS Groundwater Standards during the October 2015 groundwater sampling event. Metals have not been detected in RMW-1 above the NYSDEC TOGS Groundwater Standards during any of the seven (7) post-remediation groundwater sampling events.

RMW-2

One (1) VOC (Dichlorodifluoromethane) was detected at a concentration that exceeds the laboratory MDLs and the NYSDEC TOGS Groundwater Standard during the October 2015 sampling event. Dichlorodifluoromethane was also reported at a concentration that exceeds the NYSDEC TOGS Groundwater Standard during the April 2013, February 2014, and June 2014 sampling events.

No metals were detected at concentrations that exceeded the TOGS Groundwater Standards during the October 2015 groundwater sampling event. Metals have not been detected in RMW-2 above the NYSDEC TOGS Groundwater Standards during any of the seven (7) post-remediation groundwater sampling events.

RMW-3

Trichloroethene was detected above the laboratory MDLs and the NYSDEC TOGS Groundwater Standards during the October 2015 sampling event. Trichloroethene has been detected in RMW-3 above the NYSDEC TOGS Groundwater Standards during the five (5) of the previous six (6) post-remediation groundwater sampling events.

No metals were detected at concentrations that exceeded the TOGS Groundwater Standards during the October 2015 groundwater sampling event. Metals have not been detected in RMW-3 above the NYSDEC TOGS Groundwater Standards during any of the seven (7) post-remediation groundwater sampling events.

RMW-4

Two (2) VOCs (Ethyl Benzene and Xylenes) were detected at concentrations above the laboratory MDLs, and only Xylenes was detected at a concentration above the NYSDEC TOGS Groundwater Standard. VOCs including Acetone, Ethyl Benzene and Xylenes were detected at concentrations above the MDLs during previous sampling events. Acetone was reported at a concentration above the NYSDEC TOGS Groundwater Standard during the June 2012 and June 2014 sampling events and Xylenes were reported at a concentration above the NYSDEC TOGS Groundwater Standard during the April 2013 sampling event.

No metals were detected at concentrations that exceeded the TOGS Groundwater Standards during the October 2015 groundwater sampling event. One metal (Chromium) was detected at a concentration that slightly exceeds the NYSDEC TOGS Groundwater Standard during the February 2014 sampling event. Chromium was not reported at a concentration that exceeds the NYSDEC TOGS Groundwater Standard

during previous sampling events. The reason for the slight exceedance during the February 2014 sampling event could be due to a high turbidity in the water sample.

RMW-5

No VOCs were detected above the laboratory MDLs during the October 2015 sampling event which is consistent with the results of the previous six (6) rounds of post-remediation groundwater sampling.

No metals were detected at concentrations that exceeded the TOGS Groundwater Standards during the October 2015 groundwater sampling event. Metals have not been detected in RMW-5 above the NYSDEC TOGS Groundwater Standards during any of the seven (7) post-remediation groundwater sampling events.

RMW-6

No VOCs were detected above the laboratory MDLs during the October 2015 sampling event. VOCs have not been detected in RMW-1 above the NYSDEC TOGS Groundwater Standards during any of the seven (7) post-remediation groundwater sampling events.

No metals were detected at concentrations that exceeded the TOGS Groundwater Standards during the October 2015 groundwater sampling event. Metals have not been detected in RMW-6 above the NYSDEC TOGS Groundwater Standards during any of the seven (7) post-remediation groundwater sampling events.

RMW-7

No VOCs were detected above the laboratory MDLs during the October 2015 sampling event. Toluene was detected at a concentration that exceeded the NYSDEC TOGS Groundwater Standard during the June 2012 sampling event however no other VOCs have been detected at concentrations that exceed the NYSDEC TOGS Groundwater Standards during any of the seven (7) post-remediation groundwater sampling events.

No metals were detected at concentrations that exceeded the TOGS Groundwater Standards during the October 2015 groundwater sampling event. Metals have not been detected in RMW-7 above the NYSDEC TOGS Groundwater Standards during any of the seven (7) post-remediation groundwater sampling events.

RMW-8

No VOCs were detected above the laboratory MDLs during the October 2015 sampling event. Benzene was detected at concentrations that slightly exceeded the NYSDEC TOGS Groundwater Standard during the June 2012 and September 2012 sampling events; however Benzene has not been detected at concentrations that exceed the NYSDEC TOGS Groundwater Standard during the last five (5) sampling events.

Lead was detected at a concentration that exceeds the NYSDEC TOGS Groundwater Standard during the September 2013 sampling event. No metals were detected at concentrations that exceeded the TOGS Groundwater Standards during the October 2015 groundwater sampling event.

RMW-9

Three (3) VOCs (1,1-Dichloroethane, cis-1,2-Dichloroethene, Vinyl Chloride) were detected at concentrations that exceed the NYSDEC TOGS Groundwater Standards. These three (3) VOCs have been reported at concentrations that exceed the NYSDEC TOGS Groundwater Standards during each of the seven (7) post-remediation groundwater sampling events, however the concentrations reported for the October 2015 sampling event were similar or lower than the concentrations reported during the June 2014 sampling event, except Vinyl Chloride which was relatively higher than the June 2014 result.

One metal (Chromium) was detected at a concentration that slightly exceeds the NYSDEC TOGS Groundwater Standard during the February 2014 sampling event. Chromium was not reported at a concentration that exceeds the NYSDEC TOGS Groundwater Standard during previous sampling events. The reason for the slight exceedance during the February 2014 sampling event could be due to a high turbidity in the water sample. No metals were detected at concentrations that exceeded the TOGS Groundwater Standards during the October 2015 groundwater sampling event.

Well-04

No VOCs were detected above the laboratory MDLs during the October 2015 sampling event. VOCs have not been detected in Well-04 above the NYSDEC TOGS Groundwater Standards during any of the seven (7) post-remediation groundwater sampling events.

No metals were detected at concentrations that exceeded the TOGS Groundwater Standards during the October 2015 groundwater sampling event. Metals have not been detected in Well-04 above the NYSDEC TOGS Groundwater Standards during any of the post-remediation groundwater sampling events.

Well-07

No VOCs were detected above the laboratory MDLs during the October 2015 sampling event. VOCs have not been detected in Well-07 above the NYSDEC TOGS Groundwater Standards during any of the seven (7) post-remediation groundwater sampling events.

No metals were detected at concentrations that exceeded the TOGS Groundwater Standards during the October 2015 groundwater sampling event. Metals have not been detected in Well-07 above the NYSDEC TOGS Groundwater Standards during any of the post-remediation groundwater sampling events.

Well-09

Two (2) VOCs (1,1-Dichloroethane and 1,1-Dichloroethene) were detected at concentrations above the laboratory MDLs, however only 1,1-Dichloroethane slightly exceeded the NYSDEC TOGS Groundwater Standard during the October 2015 sampling event. 1,1-Dichloroethane has been reported at concentrations greater than the NYSDEC TOGS Groundwater Standard during each of the seven (7) post-remediation sampling events.

No metals were detected at concentrations that exceeded the TOGS Groundwater Standards during the October 2015 groundwater sampling event. One metal (Chromium) was detected at a concentration that

slightly exceeds the NYSDEC TOGS Groundwater Standard during the February 2014 sampling event. Chromium was not reported at a concentration that exceeds the NYSDEC TOGS Groundwater Standard during previous sampling events. The reason for the slight exceedance during the February 2014 sampling event could be due to a high turbidity in the water sample.

3.3 Groundwater Monitoring Conclusions

There were no deficiencies to the groundwater monitoring plan. Contaminants of concern identified in groundwater previously were generally at similar or lower levels than reported during previous sampling events. Specifically:

- Reported concentrations of Trichloroethene in monitoring well RMW-3 have decreased throughout the post-remediation sampling events;
- Reported concentrations of 1,1-Dichloroethane in monitoring well Well-09 have decreased slightly or remained the same throughout the post-remediation sampling events. As stated in the Photech Final Engineering Report, the VOCs detected at this well and potentially several of the other on-site wells appear to be associated with off-site migration from the Delphi Automotive Systems Site (NYSDEC Site No. 828064);
- Reported concentrations of chlorinated VOCs in monitoring well RMW-9 have decreased slightly since the September 2013 sampling event; and,
- Chromium was not reported at a concentration above the TOGS 1.1.1 Groundwater Standard in monitoring wells RMW-4 and Well-09 during the June 2014 sampling event. Chromium was detected in these wells during the February 2014 sampling event; however, it appears that this exceedance was due to a high turbidity in the wells during sampling. Chromium was not detected at concentrations that exceed the TOGS 1.1.1 Groundwater Standard during other sampling events and was not a contaminant of concern during remedial activities at the Site.
- Based on the groundwater sampling results the remedy appears to be effective.

4.0 IC/EC COMPLIANCE

4.1 Institutional Controls

The following Institutional Controls are included in the SMP for the Site:

- Compliance with the Environmental Easement and the SMP.
- All Engineering Controls must be operated and maintained in accordance with the SMP.
- Groundwater and other environmental or public health monitoring must be performed as defined in the SMP.
- Inclusion in the City of Rochester Building Information System flagging system as a local governmental institutional control (www.cityofrochester.gov/EICproperties).

The site-wide inspection determined that Institutional Controls have been complied with including compliance with the Environmental Easement and the SMP. There are no new conclusions or recommendations for change of Institutional Controls at this time.

4.2 Engineering Controls

The only Engineering Control at the Site is the requirement that any buildings shall have Sub-slab Depressurization Systems. No new buildings have been constructed at the Site so no Sub-slab

Depressurization Systems are present at the Site at this time.

The EC/IC Certification statement and forms are included as Appendix 4.

5.0 OPERATION & MAINTENANCE COMPLIANCE REPORT

There are currently no active Engineering Controls at the Site so operation and maintenance activities have not been completed at the Site.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Compliance

The requirements dictated in the SMP regarding IC/EC's and the Monitoring Plan were met during the reporting period.

6.2 Performance and Effectiveness of Remedy

An evaluation of the components of the SMP during this reporting period indicates that, as of the end date of this report, the IC/EC controls were protective of human health and the environment. The monitoring plan sufficiently monitored the performance of the remedy;

6.3 Recommendations

No recommendations or changes to the Site IC/EC controls or SMP are offered at this time.

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FIGURES

Legend

- Fenceline
- Parcels
- Monitoring Well (LaBella, 2012)
- Monitoring Well (BRG Environmental, 2000)

Driving Park Ave.

and Area

RMW-5

Well-04

RMW-6

RMW-4

RMW-2

RMW-8

RMW-1

RMW-7

RMW-9

RMW-3

Well-09

Well-07

Path: \\Projects2\Projects\NZ-2\Rochester, City\2151305 - Photech Eng Support 2015 2016\Drawings\Figure 2 - GW_Exceedances_wo_buildings.mxd

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FORMER PHOTECH SITE
1000 DRIVING PARK BLVD
ROCHESTER, NEW YORK

PERIODIC REVIEW REPORT

SITE AREA AND WELL LOCATIONS

W S E N

0 25 50 100
Feet

1 inch = 80 feet

2151305

FIGURE 1

Legend

- Monitoring Well (LaBella, 2012)
- Monitoring Well (BRG Environmental, 2000)
- Fenceline
- Remedial Excavation
- Swale
- Wetland Area
- Former Tunnel
- Former Buildings (demolished in 2010)

Note: RMW = Remedial Monitoring Well
Qualifiers: E Indicates the analyte concentration exceedes the calibrated range of the instrument for that specific analysis.
N Indicates the matrix spike recovery was outside control limits
* Indicates the sample duplicate % RPD was above the control limit.

Driving Park Ave.

Area

RMW-9
June 2012
1,1 Dichloroethane = 17
cis-1,2-Dichloroethene = 31
Vinyl Chloride = 79
September 2012
1,1 Dichloroethane = 19
cis-1,2-Dichloroethene = 30
Vinyl Chloride = 110
April 2013
1,1 Dichloroethane = 10.7
cis-1,2-Dichloroethene = 16.3
Vinyl Chloride = 60.7
September 2013
1,1 Dichloroethane = 20.7
cis-1,2-Dichloroethene = 24.2
Vinyl Chloride = 150 E
February 2014
1,1 Dichloroethane = 13.7
cis-1,2-Dichloroethene = 13.5
Vinyl Chloride = 43.6
Chromium = 57 N*
June 2014
1,1 Dichloroethane = 10.3
cis-1,2-Dichloroethene = 10
October 2015
1,1-Dichloroethane = 12.3
cis-1,2-Dichloroethene = 7.97
Vinyl chloride = 98.4

RMW-8
June 2012
Benzene = 1.7 J
September 2012
Benzene = 2.2 J
April 2013
No Exceedances
September 2013
Lead = 43.5 N
February 2014
No Exceedances
June 2014
No exceedances
October 2015
No exceedances

RMW-7
June 2012
Toluene = 26
September 2012
No Exceedances
April 2013
No Exceedances
September 2013
No Exceedances
February 2014
No Exceedances
June 2014
No exceedances
October 2015
No exceedances

RMW-6
June 2012
No Exceedances
September 2012
No Exceedances
April 2013
No Exceedances
September 2013
No Exceedances
February 2014
No Exceedances
June 2014
No exceedances
October 2015
No exceedances

RMW-5
June 2012
No Exceedances
September 2012
No Exceedances
April 2013
No Exceedances
September 2013
No Exceedances
February 2014
No Exceedances
June 2014
No exceedances
October 2015
No exceedances

RMW-4
June 2012
Acetone = 59
September 2012
No Exceedances
April 2013
Total Xylenes = 5.16
September 2013
No Exceedances
February 2014
Trichlorofluoromethane = 7.6
Chromium = 51.3 N*
June 2014
Acetone = 94.8
October 2015
Total xylenes = 5.98

RMW-2
June 2012
No Exceedances
September 2012
No Exceedances
April 2013
Dichlorodifluoromethane = 49.1
September 2013
No Exceedances
February 2014
Dichlorodifluoromethane = 71.5
June 2014
Dichlorodifluoromethane = 25.6
October 2015
Dichlorodifluoromethane = 22.8

Well-04
June 2012
1,1 Dichloroethane = 2.2 J
1,1 Dichloroethene = 0.8 J
September 2012
No Exceedances
April 2013
No Exceedances
September 2013
No Exceedances
February 2014
No Exceedances
June 2014
No exceedances
October 2015
No exceedances

RMW-1
June 2012
No Exceedances
September 2012
No Exceedances
April 2013
No Exceedances
September 2013
No Exceedances
February 2014
No Exceedances
June 2014
No Exceedances
October 2015
No exceedances

RMW-3
June 2012
Trichloroethene = 14
September 2012
Trichloroethene = 14
April 2013
Trichloroethene = 8.69
September 2013
Trichloroethene = 14.2
February 2014
Trichloroethene = 6.1
June 2014
No exceedances
October 2015
Trichloroethene = 7.05

Well-09
June 2012
1,1 Dichloroethane = 6.3
September 2012
1,1 Dichloroethane = 12
April 2013
1,1 Dichloroethane = 7.39
September 2013
1,1 Dichloroethane = 16
February 2014
1,1 Dichloroethane = 10.3
Chromium = 92 N*
June 2014
1,1-Dichloroethane = 5.2
October 2015
1,1-Dichloroethane = 7.55

Well-07
June 2012
No Exceedances
September 2012
No Exceedances
October 2013
No Exceedances
February 2014
No Exceedances
June 2014
No exceedance
October 2015
No exceedances

Path: \\Projects2\Projects\NZ-2\Rochester, City\2151305 - Photech Eng Support 2015 2016\Drawings\Figure 2 - GW Exceedances.mxd

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1000 DRIVING PARK BLVD
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PERIODIC REVIEW REPORT

GROUNDWATER SAMPLE EXCEEDANCES

W S N E

0 25 50 100
Feet

1 inch = 80 feet

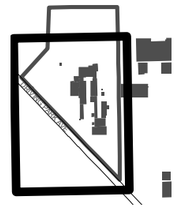

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FIGURE 2

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TABLES

Former Photech Imaging Site
1000 Driving Park Avenue
Rochester, New York
NYSDEC Site No. B00016

Table 1
Groundwater Analytical Data Tables

VOCs (ppb)

Sample ID		NYSDEC TOGS 1.1.1 Groundwater Standard	RMW-1							RMW-2						
Lab Sample Number			D3257-15	D4241-08	SB67810-03	E3912-12	F1474-13	F2732-05	L793892-12	D3394-01	D4241-11	SB67810-04	E3912-11	F1474-07	F2732-11	L793892-11
Sampling Date			6/25/2012	9/12/2012	4/10/2013	9/26/2013	9/20/2014	6/9/2014	10/9/2015	7/12/2012	9/13/2012	4/10/2013	9/26/2013	2/20/2014	6/10/2014	10/8/2015
Matrix		Water	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	CAS #															
1,1,1-Trichloroethane	71-55-6	5	2.5 U	2.5 U	0.58 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.82 J	5 U	1 U	1 U	1 U
1,1-Dichloroethane	75-34-3	5	1.4 J	1.1 J	0.68 J	1.2 J	0.85 J	1 U	1 U	2.5 U	2.5 U	0.68 U	5 U	1 U	1 U	1 U
1,1-Dichloroethene	75-35-4	5	2.5 U	2.5 U	0.49 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.49 U	5 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	120-82-1	5	2.5 U	2.5 U	0.36 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.36 U	5 U	1 U	1 U	1 U
2-Butanone	78-93-3	50	12.5 U	12.5 U	1.73 U	25 U	5 U	5 U	10 U	12.5 U	12.5 U	1.73 U	25 U	5 U	5 U	10 U
Acetone	67-64-1	50	12.5 U	12.5 U	2.56 U	25 U	5 U	5 U	50 U	12.5 U	12.5 U	2.56 U	25 U	5 U	5 U	50 U
Benzene	71-43-2	1	2.5 U	2.5 U	0.67 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.67 U	5 U	1 U	1 U	1 U
Carbon Disulfide	75-15-0	NA	2.5 U	2.5 U	0.63 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.63 U	5 U	1 U	1 U	1 U
Chloroform	67-66-3	7	2.5 U	2.5 U	0.69 U	5 U	1 U	1 U	5 U	2.5 U	2.5 U	0.69 U	5 U	1 U	1 U	5 U
cis-1,2-Dichloroethene	156-59-2	5	2.5 U	2.5 U	0.72 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.72 U	5 U	1 U	1 U	1 U
Cyclohexane	110-82-7	NA	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U	2.5 U	2.5 U	NR	5 U	1 U	1 U	1 U
Dichlorodifluoromethane	75-71-8	5	2.5 U	2.5 U	0.45 U	5 U	1 U	1 U	5 U	2.5 U	1 J	**49.1**	5 J	**71.5**	**25.6**	**22.8**
Ethyl Benzene	100-41-4	5	2.5 U	2.5 U	0.73 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.73 U	5 U	1 U	1 U	1 U
Isopropylbenzene	98-82-8	5	2.5 U	2.5 U	0.62 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.62 U	5 U	1 U	1 U	1 U
m/p-Xylenes	179601-23-1	NA	5 U	5 U	1.64 U	10 U	2 U	2 U	NA	5 U	5 U	1.64 U	10 U	2 U	2 U	NA
Methylcyclohexane	108-87-2	NA	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U
o-Xylene	95-47-6	5	2.5 U	2.5 U	0.88 U	5 U	1 U	1 U	NA	2.5 U	2.5 U	0.88 U	5 U	1 U	1 U	NA
Toluene	108-88-3	5	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	5 U	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	5 U
Total Xylenes	1330-20-7	5	7.5 U	2.5 U	2.52 U	15 U	3 U	1 U	3 U	7.5 U	NA	2.52 U	15 U	3 U	1 U	3 U
Trichloroethene	79-01-6	5	2.5 U	2.5 U	0.76 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.76 U	5 U	1 U	0.55 J	1 U
Trichlorofluoromethane	75-69-4	5	2.5 U	2.5 U	0.63 U	5 U	1 U	1 U	5 U	2.5 U	2.5 U	**1.17**	5 U	0.78 J	1 U	5 U
Vinyl chloride	75-01-4	2	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	1 U
Total Concentration.			1.4	1.1	0.68	1.2	0.85	0	0	0	1	51.09	5	72.28	26.15	22.8

Bold - Indicates the compound was detected above the NYSDEC TOGS limit.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

J* - Result is an estimaterion due to poor calibration performance.

NA - Not analyzed

Former Photech Imaging Site
1000 Driving Park Avenue
Rochester, New York
NYSDEC Site No. B00016

Table 1
Groundwater Analytical Data Tables

VOCs (ppb)

Sample ID		NYSDEC TOGS 1.1.1 Groundwater Standard	RMW-3							RMW-4						
Lab Sample Number			D3257-01	D4241-10	SB67810-05	E3912-13	F1474-14	F2732-10	L793892-09	D3257-10	D4241-04	SB67810-10	E3912-10	F1474-10	F2732-02	L793892-07
Sampling Date			6/25/2012	9/12/2012	4/10/2013	9/26/2013	2/20/2014	6/10/2014	10/8/2015	6/26/2012	9/13/2012	4/12/2013	9/25/2013	2/19/2014	6/9/2014	10/8/2015
Matrix		Water	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	CAS #															
1,1,1-Trichloroethane	71-55-6	5	2.5 U	0.9 J	0.58 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.58 U	5 U	1 U	1 U	1 U
1,1-Dichloroethane	75-34-3	5	1.1 J	1 J	0.68 J	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.68 U	5 U	1 U	1 U	1 U
1,1-Dichloroethene	75-35-4	5	2.5 U	2.5 U	0.49 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.49 U	5 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	120-82-1	5	2.5 U	2.5 U	0.36 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.36 U	5 U	1 U	1 U	1 U
2-Butanone	78-93-3	50	12.5 U	12.5 U	1.73 U	25 U	5 U	5 U	10 U	4.8 J	3.8 J	3.43 J	25 U	5 U	5.7	10 U
Acetone	67-64-1	50	12.5 U	12.5 U	2.56 U	25 U	5 U	5 U	50 U	**59**	38	20.3	24.4 J	6.9	**94.8**	50 U
Benzene	71-43-2	1	2.5 U	2.5 U	0.67 U	5 U	1 U	1 U	1 U	0.5 J	0.6 J	0.67 U	0.56 J	1 U	1 U	1 U
Carbon Disulfide	75-15-0	NA	2.5 U	2.5 U	0.63 U	5 U	1 U	1 U	1 U	0.69 J	0.5 J	0.89 J	5 U	1 U	1 U	1 U
Chloroform	67-66-3	7	0.53 J	2.5 U	0.69 J	5 U	1 U	1 U	5 U	2.5 U	2.5 U	0.69 U	5 U	1 U	1 U	5 U
cis-1,2-Dichloroethene	156-59-2	5	1.8 J	2.6 J	0.72 J	1.1 J	0.53 J	1 U	1 U	2.5 U	2.5 U	0.72 U	5 U	1 U	1 U	1 U
Cyclohexane	110-82-7	NA	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U
Dichlorodifluoromethane	75-71-8	5	2.5 U	2.5 U	0.45 U	5 U	1 U	1 U	5 U	2.1 J	1.3 J	2.39	5 U	1.8	1 U	5 U
Ethyl Benzene	100-41-4	5	2.5 U	2.5 U	0.73 U	5 U	1 U	1 U	1 U	0.61 J	1 J	1.42	0.81 J	1 U	1.2	1.68
Isopropylbenzene	98-82-8	5	2.5 U	2.5 U	0.62 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.67 J	5 U	1 U	0.45 J	1 U
m/p-Xylenes	179601-23-1	NA	5 U	5 U	1.64 U	10 U	2 U	2 U	NA	1.7 J	2.6 J	4.07	10 U	2 U	3.2	NA
Methylcyclohexane	108-87-2	NA	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U
o-Xylene	95-47-6	5	2.5 U	2.5 U	0.88 U	5 U	1 U	1 U	NA	0.44 J	0.7 J	1.09	0.7 J	1 U	0.82 J	NA
Toluene	108-88-3	5	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	5 U	1.2 J	1.4 J	1.5	1.6 J	1 U	1.2	5 U
Total Xylenes	1330-20-7	5	7.5 U	NA	2.52 U	15 U	3 U	1 U	3 U	2.1 J	3.3	**5.16**	0.7	3 U	4.02 J	**5.98**
Trichloroethene	79-01-6	5	**14**	**14**	**8.69**	**14.2**	**6.1**	4.7	**7.05** J*	0.5 J	0.5 J	0.76 U	5 U	1 U	0.71 J	1 U
Trichlorofluoromethane	75-69-4	5	2.5 U	2.5 U	0.63 U	5 U	1 U	1 U	5 U	2.5 U	2.5 U	0.74 J	5 U	**7.6**	1.4	5 U
Vinyl chloride	75-01-4	2	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	1 U
Total Concentration.			17.43	18.5	17.43	18.5	18.5	4.7	7.05	73.64	50.4	73.64	50.4	50.4	113.5	7.66

Bold - Indicates the compound was detected above the NYSDEC TOGS limit.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

J* - Result is an estimaterion due to poor calibration performance.

NA - Not analyzed

Former Photech Imaging Site
1000 Driving Park Avenue
Rochester, New York
NYSDEC Site No. B00016

Table 1
Groundwater Analytical Data Tables

VOCs (ppb)

Sample ID		NYSDEC TOGS 1.1.1 Groundwater Standard	RMW-5							RMW-6						
Lab Sample Number			D3394-02	D4241-05	SB67810-01	E3912-04	F1474-05	F2732-13	L793892-01	D3257-09	D4241-02	SB67810-11	E3912-05	F1474-15	F2732-01	L793892-02
Sampling Date			7/12/2012	9/13/2012	4/8/2013	9/25/2013	2/19/2014	6/10/2014	10/7/2015	6/25/2012	9/13/2012	4/12/2013	9/25/2013	2/19/2014	6/9/2014	10/7/2015
Matrix		Water	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	CAS #															
1,1,1-Trichloroethane	71-55-6	5	2.5 U	2.5 U	0.58 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.58 U	5 U	1 U	1 U	1 U
1,1-Dichloroethane	75-34-3	5	2.5 U	2.5 U	0.68 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.68 U	5 U	1 U	1 U	1 U
1,1-Dichloroethene	75-35-4	5	2.5 U	2.5 U	0.49 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.49 U	5 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	120-82-1	5	2.5 U	2.5 U	0.76 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.36 U	5 U	1 U	1 U	1 U
2-Butanone	78-93-3	50	12.5 U	12.5 U	1.73 U	25 U	5 U	5 U	10 U	12.5 U	12.5 U	1.73 U	25 U	5 U	5 U	10 U
Acetone	67-64-1	50	12.5 U	12.5 U	2.56 U	25 U	5 U	5 U	50 U	12.5 U	12.5 U	2.56 U	25 U	4.8 J	5 U	50 U
Benzene	71-43-2	1	2.5 U	2.5 U	0.67 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.67 U	5 U	1 U	1 U	1 U
Carbon Disulfide	75-15-0	NA	2.5 U	2.5 U	0.63 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.63 U	5 U	1 U	1 U	1 U
Chloroform	67-66-3	7	2.5 U	2.5 U	0.69 U	5 U	1 U	1 U	5 U	0.61 J	2.5 U	0.69 U	5 U	1 U	1 U	5 U
cis-1,2-Dichloroethene	156-59-2	5	2.5 U	2.5 U	0.49 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.49 U	5 U	1 U	1 U	1 U
Cyclohexane	110-82-7	NA	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U
Dichlorodifluoromethane	75-71-8	5	2.5 U	2.5 U	0.45 U	5 U	1 U	1 U	5 U	2.5 U	2.5 U	0.45 U	5 U	1.1	1 U	5 U
Ethyl Benzene	100-41-4	5	2.5 U	2.5 U	0.73 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.73 U	5 U	1 U	1 U	1 U
Isopropylbenzene	98-82-8	5	2.5 U	2.5 U	0.62 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.62 U	5 U	1 U	1 U	1 U
m/p-Xylenes	179601-23-1	NA	5 U	5 U	1.64 U	10 U	1 U	2 U	NA	5 U	5 U	1.64 U	10 U	2 U	2 U	NA
Methylcyclohexane	108-87-2	NA	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U
o-Xylene	95-47-6	5	2.5 U	2.5 U	0.88 U	5 U	1 U	1 U	NA	2.5 U	2.5 U	0.88 U	5 U	1 U	1 U	NA
Toluene	108-88-3	5	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	5 U	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	5 U
Total Xylenes	1330-20-7	5	7.5 U	2.5 U	2.52 U	15 U	3 U	1 U	3 U	7.5 U	2.5 U	2.52 U	15 U	3 U	1 U	3 U
Trichloroethene	79-01-6	5	2.5 U	2.5 U	0.76 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.76 U	5 U	1 U	1 U	1 U
Trichlorofluoromethane	75-69-4	5	2.5 U	2.5 U	0.63 U	5 U	1 U	1 U	5 U	2.5 U	2.5 U	0.63 U	5 U	1 U	1 U	5 U
Vinyl chloride	75-01-4	2	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	1 U
Total Concentration.			0	0	0	0	0	0	0	0.61	0	0.61	0	5.9	0	0

Bold - Indicates the compound was detected above the NYSDEC TOGS limit.

Qualifiers

U - The compound was not detected at the indicated concentration.

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

J* - Result is an estimaterion due to poor calibration performance.

NA - Not analyzed

Former Photech Imaging Site
1000 Driving Park Avenue
Rochester, New York
NYSDEC Site No. B00016

Table 1
Groundwater Analytical Data Tables

VOCs (ppb)

Sample ID		NYSDEC TOGS 1.1.1 Groundwater Standard	RMW-7							RMW-8						
Lab Sample Number			D3257-03	D4241-06	SB67810-07	E3912-08	F1474-11	F2732-03	L793892-06	D3257-07	D4241-07	SB67810-08	E3912-09	F1474-02	F2732-04	L793892-03
Sampling Date			6/25/2012	9/14/2012	4/11/2013	9/25/2013	2/19/2014	6/9/2014	10/8/2015	6/25/2012	9/14/2012	4/11/2013	9/25/2013	2/19/2014	6/9/2014	10/7/2015
Matrix		Water	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	CAS #															
1,1,1-Trichloroethane	71-55-6	5	2.5 U	2.5 U	0.76 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.58 U	5 U	1 U	1 U	1 U
1,1-Dichloroethane	75-34-3	5	2.5 U	2.5 U	0.68 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.68 U	5 U	1 U	1 U	1 U
1,1-Dichloroethene	75-35-4	5	2.5 U	2.5 U	0.49 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.49 U	5 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	120-82-1	5	2.5 U	2.5 U	0.36 U	5 U	1 U	1 U	1 U	0.45 J	2.5 U	0.36 U	5 U	1 U	1 U	1 U
2-Butanone	78-93-3	50	12.5 U	12.5 U	1.73 U	25 U	5 U	5 U	10 U	12.5 U	12.5 U	1.73 U	25 U	5 U	5 U	10 U
Acetone	67-64-1	50	33	12.5 U	2.56 U	25 U	13	5 U	50 U	12.5 U	12.5 U	2.56 U	25 U	5.7	5 U	50 U
Benzene	71-43-2	1	0.76 J	2.5 U	0.67 U	5 U	1 U	1 U	1 U	**1.7** J	**2.2** J	0.67 U	0.69 J	U	1 U	1 U
Carbon Disulfide	75-15-0	NA	2.5 U	2.5 U	0.63 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.63 U	5 U	1 U	1 U	1 U
Chloroform	67-66-3	7	0.53 J	2.5 U	0.69 U	5 U	1 U	1 U	5 U	0.49 J	2.5 U	0.69 U	5 U	1 U	1 U	5 U
cis-1,2-Dichloroethene	156-59-2	5	2.5 U	2.5 U	0.72 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.72 U	5 U	1 U	1 U	1 U
Cyclohexane	110-82-7	NA	0.77 J	2.5 U	NA	5 U	1 U	1 U	1 U	2.7 J	2.1 J	NA	5 U	1 U	1 U	1 U
Dichlorodifluoromethane	75-71-8	5	2 J	2.9 J	1.16 J	5 U	1 U	0.75 J	5 U	2.5 U	0.6 J	0.45 U	5 U	1 U	1 U	5 U
Ethyl Benzene	100-41-4	5	2.5 U	0.9 J	0.73 U	5 U	1 U	1 U	1 U	2.5 U	0.5 J	0.73 U	5 U	1 U	1 U	1 U
Isopropylbenzene	98-82-8	5	2.5 U	2.5 U	0.62 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.62 U	5 U	1 U	1 U	1 U
m/p-Xylenes	179601-23-1	NA	5 U	5 U	1.64 U	10 U	2 U	2 U	NA	1.4 J	0.6 J	1.64 U	10 U	2 U	2 U	NA
Methylcyclohexane	108-87-2	NA	0.7 J	2.5 U	NA	5 U	1 U	1 U	1 U	1.8 J	1.3 J	NA	5 U	1 U	1 U	1 U
o-Xylene	95-47-6	5	2.5 U	2.5 U	0.88 U	5 U	1 U	1 U	NA	0.79 J	0.5 J	0.88 U	5 U	1 U	1 U	NA
Toluene	108-88-3	5	**26**	2.5 U	0.81 U	5 U	1 U	1 U	5 U	1.2 J	2.5 U	0.81 U	5 U	1 U	1 U	5 U
Total Xylenes	1330-20-7	5	7.5 U	2.5 U	2.52 U	15 U	3 U	1 U	3 U	2.2 J	1.1	2.52 U	15 U	3 U	1 U	3 U
Trichloroethene	79-01-6	5	0.43 J	2.5 U	0.76 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.76 U	5 U	1 U	1 U	1 U
Trichlorofluoromethane	75-69-4	5	2.5 U	2.8 J	0.63 U	5 U	1 U	1 U	5 U	2.5 U	6	0.63 U	5 U	1 U	1 U	5 U
Vinyl chloride	75-01-4	2	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	1 U
Total Concentration.			64.19	6.6	1.16	0	13	0.75	0	12.73	13.8	12.73	13.8	13.8	0	0

Bold - Indicates the compound was detected above the NYSDEC TOGS limit.

Qualifiers

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J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL. The concentration given is an approximate value.

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NA - Not analyzed

Former Photech Imaging Site
1000 Driving Park Avenue
Rochester, New York
NYSDEC Site No. B00016

Table 1
Groundwater Analytical Data Tables

VOCs (ppb)

Sample ID		NYSDEC TOGS 1.1.1 Groundwater Standard	RMW-9							WELL-04						
Lab Sample Number			D3257-05	D4241-03	SB67810-09	E3912-15	F1474-12	F2732-08	L793892-04	D3257-06	D4241-09	SB67810-02	E3912-16	F1474-06	F2732-14	L793892-13
Sampling Date			6/25/2012	9/13/2012	4/11/2013	9/26/2013	2/20/2014	6/10/2014	10/7/2015	6/25/2012	9/12/2012	4/10/2013	9/26/2013	2/21/2014	6/10/2014	10/9/2015
Matrix		Water	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	CAS #															
1,1,1-Trichloroethane	71-55-6	5	2.5 U	2.5 U	0.58 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	2.68	5 U	1 U	1 U	1 U
1,1-Dichloroethane	75-34-3	5	**17**	**19**	**10.7**	**20.7**	**13.7**	**10.3**	**12.3**	2.2 J	2.5 U	2.3	5 U	1 U	1.6	1 U
1,1-Dichloroethene	75-35-4	5	2.5 U	2.5 U	0.49 U	5 U	1 U	1 U	1 U	0.8 J	2.5 U	0.75	5 U	1 U	0.45 J	1 U
1,2,4-Trichlorobenzene	120-82-1	5	2.5 U	2.5 U	0.36 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.36 U	5 U	1 U	1 U	1 U
2-Butanone	78-93-3	50	12.5 U	12.5 U	1.73 U	25 U	5 U	5 U	10 U	12.5 U	12.5 U	1.73 U	25 U	5 U	5 U	10 U
Acetone	67-64-1	50	12.5 U	12.5 U	2.56 U	25 U	5 U	1 U	50 U	12.5 U	12.5 U	2.56 U	25 U	5 U	5 U	50 U
Benzene	71-43-2	1	2.5 U	2.5 U	0.67 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.67 U	5 U	1 U	1 U	1 U
Carbon Disulfide	75-15-0	NA	2.5 U	2.5 U	0.63 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.63 U	5 U	1 U	1 U	1 U
Chloroform	67-66-3	7	2.5 U	2.5 U	0.69 U	5 U	1 U	1 U	5 U	2.5 U	2.5 U	0.69 U	5 U	1 U	1 U	5 U
cis-1,2-Dichloroethene	156-59-2	5	**31**	**30**	**16.3**	**24.2**	**13.5**	**10**	**7.97**	2.5 U	2.5 U	0.72 U	5 U	1 U	1 U	1 U
Cyclohexane	110-82-7	NA	2.5 U	2.5 U	NR	5 U	1 U	1 U	1 U	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U
Dichlorodifluoromethane	75-71-8	5	2.5 U	2.5 U	0.45 U	5 U	1 U	1 U	5 U	2.5 U	2.5 U	0.45 U	5 U	1 U	1 U	5 U
Ethyl Benzene	100-41-4	5	2.5 U	2.5 U	0.73 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.73 U	5 U	1 U	1 U	1 U
Isopropylbenzene	98-82-8	5	2.5 U	2.5 U	0.62 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.62 U	5 U	1 U	1 U	1 U
m/p-Xylenes	179601-23-1	NA	5 U	5 U	1.64 U	10 U	2 U	2 U	NA	5 U	5 U	1.64 U	10 U	2 U	2 U	NA
Methylcyclohexane	108-87-2	NA	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U
o-Xylene	95-47-6	5	2.5 U	2.5 U	0.88 U	5 U	1 U	1 U	NA	2.5 U	2.5 U	0.88 U	5 U	1 U	1 U	NA
Toluene	108-88-3	5	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	5 U	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	5 U
Total Xylenes	1330-20-7	5	7.5 U	NA	2.52 U	15 U	3 U	1 U	3 U	7.5 U	NA	7.52 U	15 U	3 U	1 U	3 U
Trichloroethene	79-01-6	5	2.5 U	2.5 U	0.76 U	5 U	1 U	1 U	1 U	2.5 U	2.5 U	0.76 U	5 U	1 U	1 U	1 U
Trichlorofluoromethane	75-69-4	5	2.5 U	2.5 U	0.63 U	5 U	1 U	1 U	5 U	2.5 U	2.5 U	0.63 U	5 U	1 U	1 U	5 U
Vinyl chloride	75-01-4	2	**79**	**110**	**60.7**	**150 E**	**43.6**	**46.3**	**98.4**	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	1 U
Total Concentration.			127	159	127	159	159	20.3	118.67	3	0	5.73	0	0	2.05	0

Bold - Indicates the compound was detected above the NYSDEC TOGS limit.

Qualifiers

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J* - Result is an estimaterion due to poor calibration performance.

NA - Not analyzed

Former Photech Imaging Site
1000 Driving Park Avenue
Rochester, New York
NYSDEC Site No. B00016

Table 1
Groundwater Analytical Data Tables

VOCs (ppb)

Sample ID		NYSDEC TOGS 1.1.1 Groundwater Standard	WELL-07						WELL-09						
Lab Sample Number			D3257-04	D4241-15	L661690-01	F1474-01	F2732-15	L793892-08	D3257-02	D4241-03	SB67810-06	E3912-14	F1474-03	F2732-09	L793892-10
Sampling Date			6/25/2012	9/13/2012	10/5/2013	2/17/2014	6/10/2014	10/8/2015	6/25/2012	9/13/2012	4/11/2013	9/26/2013	2/21/2014	6/10/2014	10/8/2015
Matrix		Water	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	CAS #														
1,1,1-Trichloroethane	71-55-6	5	2.5 U	2.5 U	1 U	1 U	1 U	1 U	2.5 U	2.5 U	0.67 J	5 U	1 U	1 U	1 U
1,1-Dichloroethane	75-34-3	5	2.5 U	2.5 U	1 U	1 U	1 U	1 U	**6.3**	**12**	**7.39**	**16** U	**10.3**	**5.2**	**7.55**
1,1-Dichloroethene	75-35-4	5	2.5 U	2.5 U	1 U	1 U	1 U	1 U	1.4 J	2.8 J	2.31	4.3 J	3.1	1.5	2.19
1,2,4-Trichlorobenzene	120-82-1	5	2.5 U	2.5 U	1 U	1 U	1 U	1 U	2.5 U	2.5 U	0.36 U	5 U	1 U	1 U	1 U
2-Butanone	78-93-3	50	12.5 U	12.5 U	10 U	9.2	5 U	10 U	12.5 U	12.5 U	1.73 U	25 U	5 U	5 U	10 U
Acetone	67-64-1	50	12.5 U	12.5 U	50 U	33	5 U	50 U	12.5 U	12.5 U	2.56 U	25 U	5 U	5 U	50 U
Benzene	71-43-2	1	2.5 U	2.5 U	1 U	1 U	1 U	1 U	2.5 U	2.5 U	0.67 U	5 U	1 U	1 U	1 U
Carbon Disulfide	75-15-0	NA	2.5 U	2.5 U	1 U	0.57 J	1 U	1 U	2.5 U	2.5 U	0.63 U	5 U	0.33 J	1 U	1 U
Chloroform	67-66-3	7	2.5 U	2.5 U	5 U	1 U	1 U	5 U	2.5 U	2.5 U	0.69 U	5 U	1 U	1 U	5 U
cis-1,2-Dichloroethene	156-59-2	5	2.5 U	2.5 U	1 U	1 U	1 U	1 U	2.5 U	2.5 U	0.72 U	5 U	1 U	1 U	1 U
Cyclohexane	110-82-7	NA	2.5 U	2.5 U	1 U	1 U	1 U	1 U	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U
Dichlorodifluoromethane	75-71-8	5	2.5 U	2.5 U	5 U	1 U	1 U	5 U	2.5 U	2.5 U	0.45 U	5 U	1 U	1 U	5 U
Ethyl Benzene	100-41-4	5	2.5 U	2.5 U	1 U	1 U	1 U	1 U	2.5 U	2.5 U	0.73 U	5 U	1 U	1 U	1 U
Isopropylbenzene	98-82-8	5	2.5 U	2.5 U	1 U	1 U	1 U	1 U	2.5 U	2.5 U	0.62 U	5 U	1 U	1 U	1 U
m/p-Xylenes	179601-23-1	NA	5 U	5 U	2 U	2 U	2 U	NA	5 U	5 U	1.64 U	10 U	2 U	2 U	NA
Methylcyclohexane	108-87-2	NA	2.5 U	2.5 U	1 U	1 U	1 U	1 U	2.5 U	2.5 U	NA	5 U	1 U	1 U	1 U
o-Xylene	95-47-6	5	2.5 U	2.5 U	1 U	1 U	1 U	NA	2.5 U	2.5 U	0.88 U	5 U	1 U	1 U	NA
Toluene	108-88-3	5	2.5 U	2.5 U	5 U	0.4 J	1 U	5 U	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	5 U
Total Xylenes	1330-20-7	5	7.5 U	2.5 U	3 U	3 U	1 U	3 U	7.5 U	NA	2.52 U	15 U	3 U	1 U	3 U
Trichloroethene	79-01-6	5	2.5 U	2.5 U	1 U	1 U	1 U	1 U	0.81 J	0.7 J	0.76 U	0.93 J	0.84 J	0.44 J	1 U
Trichlorofluoromethane	75-69-4	5	2.5 U	2.5 U	5 U	1 U	1 U	5 U	2.5 U	2.5 U	0.63 U	5 U	1 U	1 U	5 U
Vinyl chloride	75-01-4	2	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	2.5 U	2.5 U	0.81 U	5 U	1 U	1 U	1 U
Total Concentration.			0	0	0	43.17	0	0	9.34	16.8	9.34	16.8	16.8	7.14	9.74

Bold - Indicates the compound was detected above the NYSDEC TOGS limit.

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NA - Not analyzed

Former Photech Imaging Site
1000 Driving Park Avenue
Rochester, New York
NYSDEC Site No. B00016

Table 2
Groundwater Analytical Data Tables

Metals (ppb)

Sample ID		NYSDEC TOGS 1.1.1 Groundwater Standard	RMW-1							RMW-2						
Lab Sample Number		**(NY375)**	**D3257-15**	**D4241-08**	**SB67810-03**	**D4241-08**	**F1474-13**	**F2732-05**	**L793892-12**	**D3257-12**	**D4241-11**	**SB67810-04**	**E3912-11**	**F1474-07**	**F2732-11**	**L793892-11**
Sampling Date			**6/25/2012**	**9/12/2012**	**4/10/2013**	**9/12/2012**	**2/20/2014**	**6/10/2014**	**10/9/2015**	**6/25/2012**	**9/13/2012**	**4/10/2013**	**9/26/2013**	**2/20/2014**	**6/10/2014**	**10/8/2015**
Matrix		**Water**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**	**WATER**
Dilution Factor			**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	ug/L
COMPOUND	CAS #															
Arsenic	7440-38-2	25	5 U	6.26 J	1.8 U	10 UN	10 UN	10 U	10 U	5 U	5.08 J	1.8 U	10 UN	10 UN	10 U	10 U
Barium	7440-39-3	1000	86.8	111	85	69.1 N	78.3 N	74.6	110	25 U	71.8	42.8	94.4 N	36 JN	43 J	44.8
Cadmium	7440-43-9	5	1.5 U	0.57 J	0.8 U	3 UN	3 U	3 U	2 U	1.5 U	1.5 U	0.8 U	3 UN	3 U	3 U	2 U
Chromium	7440-47-3	50	2.5 U	2.5 U	1 J	1.53 JN	11.8 N*	3.68 J	10 U	2.5 U	2.5 U	0.9 U	5 UN	12.9 N*	5 U	10 U
Lead	7439-92-1	25	6.73	13.4	2.1 J	6 UN	6 U	6 U	5 U	3 U	5.68 J	2 U	6 UN	6 U	6 U	5 U
Mercury	7439-97-6	0.7	0.1 U	0.1 U	0.08 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.08 U	0.2 U	0.2 U	0.2 U	0.2 U
Selenium	7782-49-2	10	5 U	5 U	3 U	10 UN	10 U	10 U	10 U	5 U	5 U	3 U	10 UN	10 U	10 U	10 U
Silver	7440-22-4	50	2.5 U	2.5 U	0.9 U	5 UN	5 U	5 U	5 U	2.5 U	2.5 U	0.9 U	5 UN	5 U	5 U	5 U

Bold - Indicates the compound was detected above the NYSDEC TOGS limit.

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Table 2
Groundwater Analytical Data Tables

Metals (ppb)

Sample ID		NYSDEC TOGS 1.1.1 Groundwater Standard	RMW-3							RMW-4						
Lab Sample Number		(NY375)	D3257-01	D4241-10	SB67810-05	E3912-13	F1474-14	F2732-10	L793892-09	D3257-10	D4241-04	SB67810-10	E3912-10	F1474-10	F2732-02	L793892-07
Sampling Date			6/25/2012	9/12/2012	4/10/2013	9/26/2013	2/20/2014	6/10/2014	10/8/2015	6/26/2012	9/13/2012	4/12/2013	9/25/2013	2/19/2014	6/9/2014	10/8/2015
Matrix		Water	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	CAS #															
Arsenic	7440-38-2	25	5 U	5.44 J	1.8 U	10 UN	10 UN	10 U	10 U	12.3	15.6	13.6	10 UN	10 UN	11.8	21.9
Barium	7440-39-3	1000	66.3	76.1	73.2	53 N	62.9 N	81.4	60.5	10.2 J	12.8 J	6.4	59.7 N	18.3 JN	20.6 J	8.91
Cadmium	7440-43-9	5	1.5 U	1.5 U	0.8 U	3 UN	3 U	3 U	2 U	1.5 U	1.5 U	0.8 U	3 UN	3 U	3 U	2 U
Chromium	7440-47-3	50	2.5 U	2.5 U	1.4 J	5 UN	5.49 N*	5 U	10 U	1.13 J	1.74 J	0.9 U	9.5 N	**51.3** N*	5 U	10 U
Lead	7439-92-1	25	9.12	8.47	2	6 UN	11.1	6 U	5 U	14.3	10	2.7 J	6 UN	6.16	6 U	8.03
Mercury	7439-97-6	0.7	0.1 U	0.1 U	0.08 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.08 U	0.2 U	0.2 U	0.2 U	0.2 U
Selenium	7782-49-2	10	5 U	5 U	3 U	10 UN	10 U	10 U	10 U	5 U	5 U	3 U	10 UN	10 U	10 U	10 U
Silver	7440-22-4	50	2.5 U	2.5 U	0.9 U	5 UN	5 U	5 U	5 U	2.5 U	2.5 U	0.9 U	5 UN	5 U	5 U	5 U

Bold - Indicates the compound was detected above the NYSDEC TOGS limit.

Qualifiers

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Table 2
Groundwater Analytical Data Tables

Metals (ppb)

Sample ID		NYSDEC TOGS 1.1.1 Groundwater Standard	RMW-5							RMW-6						
Lab Sample Number		(NY375)	D3257-08	D4241-05	SB67810-01	E3912-04	F1474-05	F2732-13	L793892-01	D3257-09	D4241-02	SB67810-11	E3912-05	F1474-15	FF2732-01	L793892-02
Sampling Date			6/25/2012	9/13/2012	4/8/2013	9/25/2013	2/19/2014	6/10/2014	10/7/2015	6/25/2012	9/13/2012	4/12/2013	9/25/2013	2/19/2014	6/9/2014	10/7/2015
Matrix		Water	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	CAS #															
Arsenic	7440-38-2	25	5 U	5.99 J	1.8 U	6.16 JN	10 UN	10 U	10 U	5 U	5.5 J	1.8 U	10 UN	10 UN	10 U	10 U
Barium	7440-39-3	1000	48 J	69.5	41.2	96.1 N	36.5 JN	41.8 J	82.7	53.8	61.9	47.1	86.2 N	53.2 N	61.2	77.4
Cadmium	7440-43-9	5	1.5 U	1.5 U	0.8 U	3 UN	3 U	3 U	2 U	1.5 U	1.5 U	0.8 U	3 UN	3 U	3 U	2 U
Chromium	7440-47-3	50	2.5 U	2.5 U	1.8 J	15.3 N	24.2 N*	1.47 J	10 U	2.5 U	2.5 U	2.4 J	10.5 N	1.62 JN*	5 U	10 U
Lead	7439-92-1	25	9.45	13.8	2.8 J	15.1 N	6 U	6 U	5 U	11.1	7.37	4.4 J	9.33 N	9.06	6 U	6.77
Mercury	7439-97-6	0.7	0.1 U	0.1 U	0.08 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.08 U	0.2 U	0.2 U	0.2 U	0.2 U
Selenium	7782-49-2	10	5 U	5 U	3 U	10 UN	10 U	10 U	10 U	5 U	5 U	3 U	10 UN	10 U	10 U	10 U
Silver	7440-22-4	50	2.5 U	2.5 U	0.9 U	5 UN	5 U	5 U	5 U	2.5 U	2.5 U	0.9 U	5 UN	5 U	5 U	5 U

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Table 2
Groundwater Analytical Data Tables

Metals (ppb)

Sample ID		NYSDEC TOGS 1.1.1 Groundwater Standard	RMW-7							RMW-8						
Lab Sample Number		(NY375)	D3257-03	D4241-06	SB67810-07	E3912-08	F1474-11	F2732-03	L793892-06	D3257-07	D4241-07	SB67810-08	E3912-09	F1474-02	F2732-04	L793892-03
Sampling Date			6/25/2012	9/14/2012	4/11/2013	9/25/2013	2/19/2014	6/9/2014	10/8/2015	6/25/2012	9/14/2012	4/11/2013	9/25/2013	2/19/2014	6/9/2014	10/7/2015
Matrix		Water	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	CAS #															
Arsenic	7440-38-2	25	5 U	7.88 J	1.8 U	10 UN	10 UN	10 U	10 U	5 U	8.67 J	2.2 J	16.4 N	10 UN	10 U	10 U
Barium	7440-39-3	1000	112	169	89.4	143 N	117 N	67.2	56.3	65.9	109	144	52.5 N	59.8 N	104	102
Cadmium	7440-43-9	5	1.5 U	1.5 U	0.8 U	3 UN	3 U	3 U	2 U	1.5 U	1.5 U	0.8 U	3 UN	3 U	3 U	2 U
Chromium	7440-47-3	50	2.5 U	2.5 U	0.9 U	5 UN	31.5 N*	1.31 J	10 U	2.5 U	2.5 U	0.9 U	18.6 N	44.7 N*	5 U	10 U
Lead	7439-92-1	25	10.5	7.59	2	6 UN	6 U	6 U	5 U	9.64	8.27	2.4 J	**43.5** N	5.51 J	6 U	5 U
Mercury	7439-97-6	0.7	0.1 U	0.1 U	0.08 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.08 U	0.2 U	0.2 U	0.2 U	0.2 U
Selenium	7782-49-2	10	5 U	5 U	3 U	10 UN	10 U	10 U	10 U	5 U	5 U	3 U	10 UN	10 U	10 U	10 U
Silver	7440-22-4	50	2.5 U	2.5 U	0.9 U	5 UN	5 U	5 U	5 U	2.5 U	2.5 U	0.9 U	5 UN	5 U	5 U	5 U

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Table 2
Groundwater Analytical Data Tables

Metals (ppb)

Sample ID		NYSDEC TOGS 1.1.1 Groundwater Standard	RMW-09							WELL-04						
Lab Sample Number		(NY375)	D3257-05	D4241-03	SB67810-09	E3912-15	F1474-12	F2732-08	L793892-04	D3257-06	D4241-09	SB67810-02	E391216	F1474-06	F2732-14	L793892-13
Sampling Date			6/25/2012	9/13/2012	4/11/2013	9/26/2013	2/20/2014	6/10/2014	10/7/2015	6/25/2012	9/12/2012	4/10/2013	9/26/2013	2/21/2014	6/10/2014	10/9/2015
Matrix		Water	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	CAS #															
Arsenic	7440-38-2	25	5 U	5.79 J	1.8 U	10 UN	10 UN	10 U	10 U	5 U	6.62 J	1.8 U	10 UN	10 UN	10 U	10 U
Barium	7440-39-3	1000	86.1	79.5	70	118 N	70.1 N	84.1	97.4	25 U	111	42.4	79.7 N	6.64 JN	93.9	129
Cadmium	7440-43-9	5	1.5 U	1.5 U	0.8 U	3 UN	3 U	3 U	2 U	1.5 U	1 J	1.7 J	3 UN	3 U	1.02 J	2 U
Chromium	7440-47-3	50	2.5 U	2.5 U	1 J	5 UN	**57** N*	5.31	10 U	2.5 U	2.5 U	1.2 J	5 UN	39.5 N*	5 U	10 U
Lead	7439-92-1	25	8.52	7.33	2 U	6 UN	6 U	6 U	5 U	3 U	6.69	2.6 J	6 UN	6 U	6 U	5 U
Mercury	7439-97-6	0.7	0.1 U	0.1 U	0.08 U	0.2 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.08 U	0.2 U	0.2 U	0.2 U	0.2 U
Selenium	7782-49-2	10	5.81 J	5 U	3 U	10 UN	10 U	10 U	10 U	5 U	5 U	3 U	10 UN	10 U	10 U	10 U
Silver	7440-22-4	50	2.5 U	2.5 U	0.9 U	5 UN	5 U	5 U	5 U	2.5 U	2.5 U	0.9 U	5 UN	5 U	5 U	5 U

Bold - Indicates the compound was detected above the NYSDEC TOGS limit.

Qualifiers

U - The compound was not detected at the indicated concentration.

N (Inorganics) - The matrix spike recovery was outside control limits

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL.

* (Inorganics) - The sample/duplicate %RPD was above the control limit.

Former Photech Imaging Site
1000 Driving Park Avenue
Rochester, New York
NYSDEC Site No. B00016

Table 2
Groundwater Analytical Data Tables

Metals (ppb)

Sample ID		NYSDEC TOGS 1.1.1 Groundwater Standard	WELL-07					WELL-09						
Lab Sample Number		(NY375)	D3257-04	D4241-15	F1474-01	F2732-15	L793892-08	D3257-02	D4241-14	SB67810-06	E3912-14	F1474-03	F2732-09	L793892-10
Sampling Date			6/25/2012	9/13/2012	2/17/2014	6/10/2014	10/8/2015	6/25/2012	9/13/2012	4/11/2013	9/26/2013	2/21/2014	6/10/2014	10/8/2015
Matrix		Water	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
COMPOUND	CAS #													
Arsenic	7440-38-2	25	12	12.9	10 UN	4.22 J	10 U	5 U	6.12 J	1.8 U	10 UN	10 UN	10 U	10 U
Barium	7440-39-3	1000	58	50.2	30 JN	77.2	78.2	70.5	81.7	91.3	66.1 N	51 N	56.1	51.9
Cadmium	7440-43-9	5	1.5 U	0.58 J	3 UN	3 U	2 U	1.5 U	1.5 U	0.8 U	3 UN	3 U	3 U	3 U
Chromium	7440-47-3	50	2.5 U	2.5 U	8.34 N*	5 U	10 U	2.5 U	2.5 U	1.3 U	5 UN	**92** N*	5 U	5 U
Lead	7439-92-1	25	8.82	17.8	6 U	6 U	15.7 U	9.44	8.26	2.3	6 UN	4.31 J	6 U	6 U
Mercury	7439-97-6	0.7	0.1 U	0.1 U	0.2 U	0.2 U	0.2 U	0.1 U	0.1 U	0.08 U	0.2 U	0.2 U	0.2 U	0.2 U
Selenium	7782-49-2	10	5 U	5 U	10 U	10 U	10 U	5 U	5 U	3 U	10 UN	10 U	10 U	10 U
Silver	7440-22-4	50	2.5 U	2.5 U	5 U	5 U	5 U	2.5 U	2.5 U	0.9 U	5 UN	5 U	5 U	5 U

Bold - Indicates the compound was detected above the NYSDEC TOGS limit.

Qualifiers

U - The compound was not detected at the indicated concentration.

N (Inorganics) - The matrix spike recovery was outside control limits

J - Data indicates the presence of a compound that meets the identification criteria. The result is less than the quantitation limit but greater than MDL.

* (Inorganics) - The sample/duplicate %RPD was above the control limit.

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX 1

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd
Mt. Juliet, TN 37122
(615) 758-5858
(800) 767-5859
Fax (615) 758-5859
Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L793892

For: LaBella Associates, P.C.
Former Photech Imaging Site

L793892

Lab SampleID.	Client ID
L793892-01	RMW-5
L793892-02	RMW-6
L793892-03	RMW-8
L793892-04	RMW-9
L793892-05	BLIND DUP
L793892-06	RMW-7
L793892-07	RMW-4
L793892-08	WELL-07
L793892-09	RMW-3
L793892-10	WELL-09
L793892-11	RMW-2
L793892-12	RMW-1
L793892-13	WELL-04
L793892-14	EQ BLANK
L793892-16	TRIP BLANK

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Quality Control Summary
SDG: L793892

For: LaBella Associates, P.C.
Project: Former Photech Imaging Site
October 27, 2015

Sample Receiving and Handling

All sample aliquots were received at the correct temperature, in the proper containers, and with the appropriate preservatives. All method specified holding times were met.

Mercury by Method 7470A

Laboratory Control Sample

Samples L793892-01, -02, -03, -04, -05, -07, -08, -09, -10, -11, -12, -13, and -14 were analyzed in analytical batch WG821311. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch.

Sample L793892-06 was analyzed in analytical batch WG821837. The laboratory control sample associated with this sample was within the laboratory control limits for all target analytes reported from this batch. The RPD exceeded limits.

Matrix Spike/Matrix Spike Duplicate

For analytical batch WG821311 matrix spike/matrix spike duplicate analysis was performed on sample L793873-11. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG821837 matrix spike/matrix spike duplicate analysis was performed on sample L793892-06. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

Blank Analysis

The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Calibration Summary

Instrument CVAA5 was calibrated on 10/14/2015. The initial calibration and continuing calibration verification standards were within method limits.

Instrument CVAA5 was calibrated on 10/15/2015. The initial calibration and continuing calibration verification standards were within method limits.

Trace Metals by Method 6010C

Laboratory Control Sample

Samples L793892-01, -02, -03, -04, -05, -06, -08, -09, -10, -11, -12, -13, -14, and -07 were analyzed in analytical batch WG821543. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate

For analytical batch WG821543 matrix spike/matrix spike duplicate analysis was performed on sample L793892-06. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

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Quality Control Summary
SDG: L793892

For: LaBella Associates, P.C.
Project: Former Photech Imaging Site
October 27, 2015

Blank Analysis
The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

Calibration Summary
Instrument ICP13 was calibrated on 10/15/2015. The initial calibration and continuing calibration verification standards were within method limits.

Instrument ICP13 was calibrated on 10/19/2015. The initial calibration and continuing calibration verification standards were within method limits.

Volatile Organic Compounds by Method 8260C
Laboratory Control Sample
Samples L793892-01, -02, -03, -04, -05, -06, -07, -08, -10, -11, -12, -13, -14, and -16 were analyzed in analytical batch WG822246. The laboratory control sample associated with these samples was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Sample L793892-09 was analyzed in analytical batch WG822564. The laboratory control sample associated with this sample was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Sample L793892-09 was analyzed in analytical batch WG822800. The laboratory control sample associated with this sample was within the laboratory control limits for all target analytes reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Matrix Spike/Matrix Spike Duplicate
For analytical batch WG822246 matrix spike/matrix spike duplicate analysis was performed on sample L793892-06. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG822564 matrix spike/matrix spike duplicate analysis was performed on sample L794713-01. The matrix spike recoveries and relative percent differences were within laboratory control limits for all target analytes reported from this batch.

For analytical batch WG822800 matrix spike/matrix spike duplicate analysis was performed on sample L794661-01. The matrix spike recoveries were below laboratory control limits for Benzene, cis-1,3-Dichloropropene, and Toluene. The spike recoveries were within limits for the remaining target compounds reported from this batch. The relative percent difference was within laboratory limits for all target analytes reported from this batch.

Blank Analysis
The method blank, the initial, and all continuing calibration blanks contained no analytes at concentrations above the method reporting limit.

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Quality Control Summary
SDG: L793892

For: LaBella Associates, P.C.
Project: Former Photech Imaging Site
October 27, 2015

Calibration Summary
Instrument VOCMS25 was calibrated on 9/15/2015. The initial calibration and continuing calibration verification standards were within method limits.

Instrument VOCMS30 was calibrated on 9/4/2015. The initial calibration and continuing calibration verification standards were within method limits.

Instrument VOCMS8 was calibrated on 10/11/2015. The initial calibration and continuing calibration verification standards were within method limits.

Surrogate Summary
The surrogate recoveries were within method limits for all samples.

Internal Standards
The internal standard responses and retention times were within method limits for all samples and quality control samples.

Nancy F. McLain
ESC Representative
ESC Lab Sciences

ANALYTICAL REPORT

October 20, 2015

LaBella Associates, P.C.

Sample Delivery Group:	L793892
Samples Received:	10/10/2015
Project Number:	2151305
Description:	Former Photech Imaging Site

Report To:

Mr. Dave Engert
300 State Street, Suite 201
Rochester, NY 14614

Entire Report Reviewed By:

T. Alan Harvill
Technical Service Representative

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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RMW-5 L793892-01 GW

Collected by: Nick Inzinna | Collected date/time: 10/07/15 10:14 | Received date/time: 10/10/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG821311	1	10/13/15 18:09	10/14/15 08:49	BRJ
Metals (ICP) by Method 6010C	WG821543	1	10/14/15 20:35	10/15/15 16:27	WBD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG822246	1	10/16/15 15:08	10/16/15 15:08	BRA

RMW-6 L793892-02 GW

Collected by: Nick Inzinna | Collected date/time: 10/07/15 12:05 | Received date/time: 10/10/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG821311	1	10/13/15 18:09	10/14/15 08:52	BRJ
Metals (ICP) by Method 6010C	WG821543	1	10/14/15 20:35	10/15/15 16:30	WBD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG822246	1	10/16/15 15:26	10/16/15 15:26	BRA

RMW-8 L793892-03 GW

Collected by: Nick Inzinna | Collected date/time: 10/07/15 13:00 | Received date/time: 10/10/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG821311	1	10/13/15 18:09	10/14/15 08:54	BRJ
Metals (ICP) by Method 6010C	WG821543	1	10/14/15 20:35	10/15/15 16:33	WBD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG822246	1	10/16/15 15:44	10/16/15 15:44	BRA

RMW-9 L793892-04 GW

Collected by: Nick Inzinna | Collected date/time: 10/07/15 15:07 | Received date/time: 10/10/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG821311	1	10/13/15 18:09	10/14/15 08:56	BRJ
Metals (ICP) by Method 6010C	WG821543	1	10/14/15 20:35	10/15/15 16:42	WBD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG822246	1	10/16/15 16:02	10/16/15 16:02	BRA

BLIND DUP L793892-05 GW

Collected by: Nick Inzinna | Collected date/time: 10/07/15 18:00 | Received date/time: 10/10/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG821311	1	10/13/15 18:09	10/14/15 08:58	BRJ
Metals (ICP) by Method 6010C	WG821543	1	10/14/15 20:35	10/15/15 16:45	WBD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG822246	1	10/16/15 16:21	10/16/15 16:21	BRA

RMW-7 L793892-06 GW

Collected by: Nick Inzinna | Collected date/time: 10/08/15 09:30 | Received date/time: 10/10/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG821837	1	10/14/15 18:50	10/15/15 09:35	BRJ
Metals (ICP) by Method 6010C	WG821543	1	10/14/15 20:35	10/15/15 16:15	WBD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG822246	1	10/16/15 13:36	10/16/15 13:36	BRA

RMW-4 L793892-07 GW

Collected by: Nick Inzinna | Collected date/time: 10/08/15 11:26 | Received date/time: 10/10/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG821311	1	10/13/15 18:09	10/14/15 09:05	BRJ
Metals (ICP) by Method 6010C	WG821543	1	10/14/15 20:35	10/19/15 11:05	LTB
Volatile Organic Compounds (GC/MS) by Method 8260C	WG822246	1	10/16/15 16:39	10/16/15 16:39	BRA

WELL-07 L793892-08 GW

Collected by: Nick Inzinna | Collected date/time: 10/08/15 13:02 | Received date/time: 10/10/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG821311	1	10/13/15 18:09	10/14/15 09:07	BRJ
Metals (ICP) by Method 6010C	WG821543	1	10/14/15 20:35	10/15/15 16:51	WBD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG822246	1	10/16/15 16:57	10/16/15 16:57	BRA

RMW-3 L793892-09 GW

Collected by: Nick Inzinna | Collected date/time: 10/08/15 14:28 | Received date/time: 10/10/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG821311	1	10/13/15 18:09	10/14/15 09:09	BRJ
Metals (ICP) by Method 6010C	WG821543	1	10/14/15 20:35	10/15/15 16:54	WBD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG822564	1	10/19/15 15:19	10/19/15 15:19	BRA
Volatile Organic Compounds (GC/MS) by Method 8260C	WG822800	1	10/19/15 02:41	10/19/15 02:41	MEG

WELL-09 L793892-10 GW

Collected by: Nick Inzinna | Collected date/time: 10/08/15 15:44 | Received date/time: 10/10/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG821311	1	10/13/15 18:09	10/14/15 09:12	BRJ
Metals (ICP) by Method 6010C	WG821543	1	10/14/15 20:35	10/15/15 16:57	WBD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG822246	1	10/16/15 17:34	10/16/15 17:34	BRA

RMW-2 L793892-11 GW

Collected by: Nick Inzinna | Collected date/time: 10/08/15 17:03 | Received date/time: 10/10/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG821311	1	10/13/15 18:09	10/14/15 09:14	BRJ
Metals (ICP) by Method 6010C	WG821543	1	10/14/15 20:35	10/15/15 17:01	WBD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG822246	1	10/16/15 17:52	10/16/15 17:52	BRA

RMW-1 L793892-12 GW

Collected by: Nick Inzinna | Collected date/time: 10/09/15 09:38 | Received date/time: 10/10/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG821311	1	10/13/15 18:09	10/14/15 09:16	BRJ
Metals (ICP) by Method 6010C	WG821543	1	10/14/15 20:35	10/15/15 17:04	WBD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG822246	1	10/16/15 18:10	10/16/15 18:10	BRA

WELL-04 L793892-13 GW

Collected by: Nick Inzinna
Collected date/time: 10/09/15 11:02
Received date/time: 10/10/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG821311	1	10/13/15 18:09	10/14/15 09:18	BRJ
Metals (ICP) by Method 6010C	WG821543	1	10/14/15 20:35	10/15/15 17:07	WBD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG822246	1	10/16/15 18:28	10/16/15 18:28	BRA

EQ BLANK L793892-14 GW

Collected by: Nick Inzinna
Collected date/time: 10/09/15 11:30
Received date/time: 10/10/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Mercury by Method 7470A	WG821311	1	10/13/15 18:09	10/14/15 09:20	BRJ
Metals (ICP) by Method 6010C	WG821543	1	10/14/15 20:35	10/15/15 17:10	WBD
Volatile Organic Compounds (GC/MS) by Method 8260C	WG822246	1	10/16/15 13:00	10/16/15 13:00	BRA

TRIP BLANK L793892-16 GW

Collected by: Nick Inzinna
Collected date/time: 10/09/15 00:00
Received date/time: 10/10/15 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analysis Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG822246	1	10/16/15 13:18	10/16/15 13:18	BRA

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. All MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

T. Alan Harvill
Technical Service Representative

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	10/14/2015 08:49	WG821311

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		10.0	1	10/15/2015 16:27	WG821543
Barium	82.7		5.00	1	10/15/2015 16:27	WG821543
Cadmium	ND		2.00	1	10/15/2015 16:27	WG821543
Chromium	ND		10.0	1	10/15/2015 16:27	WG821543
Lead	ND		5.00	1	10/15/2015 16:27	WG821543
Selenium	ND		10.0	1	10/15/2015 16:27	WG821543
Silver	ND		5.00	1	10/15/2015 16:27	WG821543

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	10/16/2015 15:08	WG822246
Benzene	ND		1.00	1	10/16/2015 15:08	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 15:08	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 15:08	WG822246
Bromoform	ND		1.00	1	10/16/2015 15:08	WG822246
Bromomethane	ND		5.00	1	10/16/2015 15:08	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 15:08	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 15:08	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 15:08	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 15:08	WG822246
Chloroethane	ND		5.00	1	10/16/2015 15:08	WG822246
Chloroform	ND		5.00	1	10/16/2015 15:08	WG822246
Chloromethane	ND		2.50	1	10/16/2015 15:08	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 15:08	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 15:08	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 15:08	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 15:08	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 15:08	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 15:08	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 15:08	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 15:08	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 15:08	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 15:08	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 15:08	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 15:08	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 15:08	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 15:08	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 15:08	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 15:08	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 15:08	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 15:08	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 15:08	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 15:08	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 15:08	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 15:08	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 15:08	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 15:08	WG822246
Styrene	ND		1.00	1	10/16/2015 15:08	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 15:08	WG822246

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Tetrachloroethene	ND		1.00	1	10/16/2015 15:08	WG822246
Toluene	ND		5.00	1	10/16/2015 15:08	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 15:08	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 15:08	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 15:08	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 15:08	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 15:08	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 15:08	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 15:08	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 15:08	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 15:08	WG822246
(S) Toluene-d8	*102*		*90.0-115*		*10/16/2015 15:08*	WG822246
(S) Dibromofluoromethane	*96.8*		*79.0-121*		*10/16/2015 15:08*	WG822246
(S) a,a,a-Trifluorotoluene	*103*		*90.4-116*		*10/16/2015 15:08*	WG822246
(S) 4-Bromofluorobenzene	*103*		*80.1-120*		*10/16/2015 15:08*	WG822246

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	10/14/2015 08:52	WG821311

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		10.0	1	10/15/2015 16:30	WG821543
Barium	77.4		5.00	1	10/15/2015 16:30	WG821543
Cadmium	ND		2.00	1	10/15/2015 16:30	WG821543
Chromium	ND		10.0	1	10/15/2015 16:30	WG821543
Lead	6.77		5.00	1	10/15/2015 16:30	WG821543
Selenium	ND		10.0	1	10/15/2015 16:30	WG821543
Silver	ND		5.00	1	10/15/2015 16:30	WG821543

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	10/16/2015 15:26	WG822246
Benzene	ND		1.00	1	10/16/2015 15:26	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 15:26	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 15:26	WG822246
Bromoform	ND		1.00	1	10/16/2015 15:26	WG822246
Bromomethane	ND		5.00	1	10/16/2015 15:26	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 15:26	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 15:26	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 15:26	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 15:26	WG822246
Chloroethane	ND		5.00	1	10/16/2015 15:26	WG822246
Chloroform	ND		5.00	1	10/16/2015 15:26	WG822246
Chloromethane	ND		2.50	1	10/16/2015 15:26	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 15:26	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 15:26	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 15:26	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 15:26	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 15:26	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 15:26	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 15:26	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 15:26	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 15:26	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 15:26	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 15:26	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 15:26	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 15:26	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 15:26	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 15:26	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 15:26	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 15:26	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 15:26	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 15:26	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 15:26	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 15:26	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 15:26	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 15:26	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 15:26	WG822246
Styrene	ND		1.00	1	10/16/2015 15:26	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 15:26	WG822246

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Tetrachloroethene	ND		1.00	1	10/16/2015 15:26	WG822246
Toluene	ND		5.00	1	10/16/2015 15:26	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 15:26	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 15:26	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 15:26	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 15:26	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 15:26	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 15:26	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 15:26	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 15:26	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 15:26	WG822246
(S) Toluene-d8	*103*		*90.0-115*		*10/16/2015 15:26*	WG822246
(S) Dibromofluoromethane	*95.4*		*79.0-121*		*10/16/2015 15:26*	WG822246
(S) α,α,α-Trifluorotoluene	*106*		*90.4-116*		*10/16/2015 15:26*	WG822246
(S) 4-Bromofluorobenzene	*108*		*80.1-120*		*10/16/2015 15:26*	WG822246

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	10/14/2015 08:54	WG821311

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		10.0	1	10/15/2015 16:33	WG821543
Barium	102		5.00	1	10/15/2015 16:33	WG821543
Cadmium	ND		2.00	1	10/15/2015 16:33	WG821543
Chromium	ND		10.0	1	10/15/2015 16:33	WG821543
Lead	ND		5.00	1	10/15/2015 16:33	WG821543
Selenium	ND		10.0	1	10/15/2015 16:33	WG821543
Silver	ND		5.00	1	10/15/2015 16:33	WG821543

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	10/16/2015 15:44	WG822246
Benzene	ND		1.00	1	10/16/2015 15:44	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 15:44	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 15:44	WG822246
Bromoform	ND		1.00	1	10/16/2015 15:44	WG822246
Bromomethane	ND		5.00	1	10/16/2015 15:44	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 15:44	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 15:44	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 15:44	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 15:44	WG822246
Chloroethane	ND		5.00	1	10/16/2015 15:44	WG822246
Chloroform	ND		5.00	1	10/16/2015 15:44	WG822246
Chloromethane	ND		2.50	1	10/16/2015 15:44	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 15:44	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 15:44	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 15:44	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 15:44	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 15:44	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 15:44	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 15:44	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 15:44	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 15:44	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 15:44	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 15:44	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 15:44	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 15:44	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 15:44	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 15:44	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 15:44	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 15:44	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 15:44	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 15:44	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 15:44	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 15:44	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 15:44	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 15:44	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 15:44	WG822246
Styrene	ND		1.00	1	10/16/2015 15:44	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 15:44	WG822246

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Tetrachloroethene	ND		1.00	1	10/16/2015 15:44	WG822246
Toluene	ND		5.00	1	10/16/2015 15:44	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 15:44	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 15:44	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 15:44	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 15:44	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 15:44	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 15:44	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 15:44	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 15:44	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 15:44	WG822246
(S) Toluene-d8	*105*		*90.0-115*		*10/16/2015 15:44*	WG822246
(S) Dibromofluoromethane	*95.1*		*79.0-121*		*10/16/2015 15:44*	WG822246
(S) a,a,a-Trifluorotoluene	*110*		*90.4-116*		*10/16/2015 15:44*	WG822246
(S) 4-Bromofluorobenzene	*106*		*80.1-120*		*10/16/2015 15:44*	WG822246

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	10/14/2015 08:56	WG821311

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		10.0	1	10/15/2015 16:42	WG821543
Barium	97.4		5.00	1	10/15/2015 16:42	WG821543
Cadmium	ND		2.00	1	10/15/2015 16:42	WG821543
Chromium	ND		10.0	1	10/15/2015 16:42	WG821543
Lead	ND		5.00	1	10/15/2015 16:42	WG821543
Selenium	ND		10.0	1	10/15/2015 16:42	WG821543
Silver	ND		5.00	1	10/15/2015 16:42	WG821543

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	10/16/2015 16:02	WG822246
Benzene	ND		1.00	1	10/16/2015 16:02	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 16:02	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 16:02	WG822246
Bromoform	ND		1.00	1	10/16/2015 16:02	WG822246
Bromomethane	ND		5.00	1	10/16/2015 16:02	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 16:02	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 16:02	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 16:02	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 16:02	WG822246
Chloroethane	ND		5.00	1	10/16/2015 16:02	WG822246
Chloroform	ND		5.00	1	10/16/2015 16:02	WG822246
Chloromethane	ND		2.50	1	10/16/2015 16:02	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 16:02	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 16:02	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 16:02	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 16:02	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 16:02	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 16:02	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 16:02	WG822246
1,1-Dichloroethane	12.3		1.00	1	10/16/2015 16:02	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 16:02	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 16:02	WG822246
cis-1,2-Dichloroethene	7.97		1.00	1	10/16/2015 16:02	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 16:02	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 16:02	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 16:02	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 16:02	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 16:02	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 16:02	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 16:02	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 16:02	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 16:02	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 16:02	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 16:02	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 16:02	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 16:02	WG822246
Styrene	ND		1.00	1	10/16/2015 16:02	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 16:02	WG822246

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Tetrachloroethene	ND		1.00	1	10/16/2015 16:02	WG822246
Toluene	ND		5.00	1	10/16/2015 16:02	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 16:02	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 16:02	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 16:02	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 16:02	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 16:02	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 16:02	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 16:02	WG822246
Vinyl chloride	98.4		1.00	1	10/16/2015 16:02	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 16:02	WG822246
(S) Toluene-d8	*104*		*90.0-115*		*10/16/2015 16:02*	WG822246
(S) Dibromofluoromethane	*99.8*		*79.0-121*		*10/16/2015 16:02*	WG822246
(S) a,a,a-Trifluorotoluene	*107*		*90.4-116*		*10/16/2015 16:02*	WG822246
(S) 4-Bromofluorobenzene	*106*		*80.1-120*		*10/16/2015 16:02*	WG822246

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	10/14/2015 08:58	WG821311

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		10.0	1	10/15/2015 16:45	WG821543
Barium	101		5.00	1	10/15/2015 16:45	WG821543
Cadmium	ND		2.00	1	10/15/2015 16:45	WG821543
Chromium	ND		10.0	1	10/15/2015 16:45	WG821543
Lead	ND		5.00	1	10/15/2015 16:45	WG821543
Selenium	ND		10.0	1	10/15/2015 16:45	WG821543
Silver	ND		5.00	1	10/15/2015 16:45	WG821543

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	10/16/2015 16:21	WG822246
Benzene	ND		1.00	1	10/16/2015 16:21	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 16:21	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 16:21	WG822246
Bromoform	ND		1.00	1	10/16/2015 16:21	WG822246
Bromomethane	ND		5.00	1	10/16/2015 16:21	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 16:21	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 16:21	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 16:21	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 16:21	WG822246
Chloroethane	ND		5.00	1	10/16/2015 16:21	WG822246
Chloroform	ND		5.00	1	10/16/2015 16:21	WG822246
Chloromethane	ND		2.50	1	10/16/2015 16:21	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 16:21	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 16:21	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 16:21	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 16:21	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 16:21	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 16:21	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 16:21	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 16:21	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 16:21	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 16:21	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 16:21	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 16:21	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 16:21	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 16:21	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 16:21	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 16:21	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 16:21	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 16:21	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 16:21	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 16:21	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 16:21	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 16:21	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 16:21	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 16:21	WG822246
Styrene	ND		1.00	1	10/16/2015 16:21	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 16:21	WG822246

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Tetrachloroethene	ND		1.00	1	10/16/2015 16:21	WG822246
Toluene	ND		5.00	1	10/16/2015 16:21	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 16:21	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 16:21	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 16:21	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 16:21	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 16:21	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 16:21	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 16:21	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 16:21	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 16:21	WG822246
(S) Toluene-d8	*103*		*90.0-115*		*10/16/2015 16:21*	WG822246
(S) Dibromofluoromethane	*99.0*		*79.0-121*		*10/16/2015 16:21*	WG822246
(S) a,a,a-Trifluorotoluene	*105*		*90.4-116*		*10/16/2015 16:21*	WG822246
(S) 4-Bromofluorobenzene	*108*		*80.1-120*		*10/16/2015 16:21*	WG822246

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND	J3	0.200	1	10/15/2015 09:35	WG821837

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		10.0	1	10/15/2015 16:15	WG821543
Barium	56.3		5.00	1	10/15/2015 16:15	WG821543
Cadmium	ND		2.00	1	10/15/2015 16:15	WG821543
Chromium	ND		10.0	1	10/15/2015 16:15	WG821543
Lead	ND		5.00	1	10/15/2015 16:15	WG821543
Selenium	ND		10.0	1	10/15/2015 16:15	WG821543
Silver	ND		5.00	1	10/15/2015 16:15	WG821543

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	10/16/2015 13:36	WG822246
Benzene	ND		1.00	1	10/16/2015 13:36	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 13:36	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 13:36	WG822246
Bromoform	ND		1.00	1	10/16/2015 13:36	WG822246
Bromomethane	ND		5.00	1	10/16/2015 13:36	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 13:36	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 13:36	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 13:36	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 13:36	WG822246
Chloroethane	ND		5.00	1	10/16/2015 13:36	WG822246
Chloroform	ND		5.00	1	10/16/2015 13:36	WG822246
Chloromethane	ND		2.50	1	10/16/2015 13:36	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 13:36	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 13:36	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 13:36	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 13:36	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 13:36	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 13:36	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 13:36	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 13:36	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 13:36	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 13:36	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 13:36	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 13:36	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 13:36	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 13:36	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 13:36	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 13:36	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 13:36	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 13:36	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 13:36	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 13:36	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 13:36	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 13:36	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 13:36	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 13:36	WG822246
Styrene	ND		1.00	1	10/16/2015 13:36	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 13:36	WG822246

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Tetrachloroethene	ND		1.00	1	10/16/2015 13:36	WG822246
Toluene	ND		5.00	1	10/16/2015 13:36	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 13:36	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 13:36	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 13:36	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 13:36	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 13:36	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 13:36	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 13:36	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 13:36	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 13:36	WG822246
(S) Toluene-d8	*106*		*90.0-115*		*10/16/2015 13:36*	WG822246
(S) Dibromofluoromethane	*102*		*79.0-121*		*10/16/2015 13:36*	WG822246
(S) α,α,α-Trifluorotoluene	*107*		*90.4-116*		*10/16/2015 13:36*	WG822246
(S) 4-Bromofluorobenzene	*104*		*80.1-120*		*10/16/2015 13:36*	WG822246

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	10/14/2015 09:05	WG821311

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	21.9		10.0	1	10/19/2015 11:05	WG821543
Barium	8.91		5.00	1	10/19/2015 11:05	WG821543
Cadmium	ND		2.00	1	10/19/2015 11:05	WG821543
Chromium	ND		10.0	1	10/19/2015 11:05	WG821543
Lead	8.03		5.00	1	10/19/2015 11:05	WG821543
Selenium	ND		10.0	1	10/19/2015 11:05	WG821543
Silver	ND		5.00	1	10/19/2015 11:05	WG821543

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	10/16/2015 16:39	WG822246
Benzene	ND		1.00	1	10/16/2015 16:39	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 16:39	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 16:39	WG822246
Bromoform	ND		1.00	1	10/16/2015 16:39	WG822246
Bromomethane	ND		5.00	1	10/16/2015 16:39	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 16:39	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 16:39	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 16:39	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 16:39	WG822246
Chloroethane	ND		5.00	1	10/16/2015 16:39	WG822246
Chloroform	ND		5.00	1	10/16/2015 16:39	WG822246
Chloromethane	ND		2.50	1	10/16/2015 16:39	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 16:39	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 16:39	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 16:39	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 16:39	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 16:39	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 16:39	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 16:39	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 16:39	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 16:39	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 16:39	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 16:39	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 16:39	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 16:39	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 16:39	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 16:39	WG822246
Ethylbenzene	1.68		1.00	1	10/16/2015 16:39	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 16:39	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 16:39	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 16:39	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 16:39	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 16:39	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 16:39	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 16:39	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 16:39	WG822246
Styrene	ND		1.00	1	10/16/2015 16:39	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 16:39	WG822246

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Tetrachloroethene	ND		1.00	1	10/16/2015 16:39	WG822246
Toluene	ND		5.00	1	10/16/2015 16:39	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 16:39	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 16:39	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 16:39	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 16:39	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 16:39	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 16:39	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 16:39	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 16:39	WG822246
Xylenes, Total	5.98		3.00	1	10/16/2015 16:39	WG822246
(S) Toluene-d8	*107*		*90.0-115*		*10/16/2015 16:39*	WG822246
(S) Dibromofluoromethane	*99.3*		*79.0-121*		*10/16/2015 16:39*	WG822246
(S) a,a,a-Trifluorotoluene	*111*		*90.4-116*		*10/16/2015 16:39*	WG822246
(S) 4-Bromofluorobenzene	*108*		*80.1-120*		*10/16/2015 16:39*	WG822246

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	10/14/2015 09:07	WG821311

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		10.0	1	10/15/2015 16:51	WG821543
Barium	78.2		5.00	1	10/15/2015 16:51	WG821543
Cadmium	ND		2.00	1	10/15/2015 16:51	WG821543
Chromium	ND		10.0	1	10/15/2015 16:51	WG821543
Lead	15.7		5.00	1	10/15/2015 16:51	WG821543
Selenium	ND		10.0	1	10/15/2015 16:51	WG821543
Silver	ND		5.00	1	10/15/2015 16:51	WG821543

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	10/16/2015 16:57	WG822246
Benzene	ND		1.00	1	10/16/2015 16:57	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 16:57	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 16:57	WG822246
Bromoform	ND		1.00	1	10/16/2015 16:57	WG822246
Bromomethane	ND		5.00	1	10/16/2015 16:57	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 16:57	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 16:57	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 16:57	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 16:57	WG822246
Chloroethane	ND		5.00	1	10/16/2015 16:57	WG822246
Chloroform	ND		5.00	1	10/16/2015 16:57	WG822246
Chloromethane	ND		2.50	1	10/16/2015 16:57	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 16:57	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 16:57	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 16:57	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 16:57	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 16:57	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 16:57	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 16:57	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 16:57	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 16:57	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 16:57	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 16:57	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 16:57	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 16:57	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 16:57	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 16:57	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 16:57	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 16:57	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 16:57	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 16:57	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 16:57	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 16:57	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 16:57	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 16:57	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 16:57	WG822246
Styrene	ND		1.00	1	10/16/2015 16:57	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 16:57	WG822246

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Tetrachloroethene	ND		1.00	1	10/16/2015 16:57	WG822246
Toluene	ND		5.00	1	10/16/2015 16:57	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 16:57	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 16:57	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 16:57	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 16:57	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 16:57	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 16:57	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 16:57	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 16:57	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 16:57	WG822246
(S) Toluene-d8	*101*		*90.0-115*		*10/16/2015 16:57*	WG822246
(S) Dibromofluoromethane	*95.4*		*79.0-121*		*10/16/2015 16:57*	WG822246
(S) α,α,α-Trifluorotoluene	*106*		*90.4-116*		*10/16/2015 16:57*	WG822246
(S) 4-Bromofluorobenzene	*107*		*80.1-120*		*10/16/2015 16:57*	WG822246

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	10/14/2015 09:09	WG821311

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		10.0	1	10/15/2015 16:54	WG821543
Barium	60.5		5.00	1	10/15/2015 16:54	WG821543
Cadmium	ND		2.00	1	10/15/2015 16:54	WG821543
Chromium	ND		10.0	1	10/15/2015 16:54	WG821543
Lead	ND		5.00	1	10/15/2015 16:54	WG821543
Selenium	ND		10.0	1	10/15/2015 16:54	WG821543
Silver	ND		5.00	1	10/15/2015 16:54	WG821543

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	10/19/2015 02:41	WG822800
Benzene	ND		1.00	1	10/19/2015 02:41	WG822800
Bromochloromethane	ND		1.00	1	10/19/2015 02:41	WG822800
Bromodichloromethane	ND		1.00	1	10/19/2015 02:41	WG822800
Bromoform	ND		1.00	1	10/19/2015 02:41	WG822800
Bromomethane	ND		5.00	1	10/19/2015 02:41	WG822800
Carbon disulfide	ND		1.00	1	10/19/2015 02:41	WG822800
Carbon tetrachloride	ND		1.00	1	10/19/2015 02:41	WG822800
Chlorobenzene	ND		1.00	1	10/19/2015 02:41	WG822800
Chlorodibromomethane	ND		1.00	1	10/19/2015 02:41	WG822800
Chloroethane	ND		5.00	1	10/19/2015 15:19	WG822564
Chloroform	ND		5.00	1	10/19/2015 02:41	WG822800
Chloromethane	ND		2.50	1	10/19/2015 02:41	WG822800
Cyclohexane	ND		1.00	1	10/19/2015 02:41	WG822800
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/19/2015 02:41	WG822800
1,2-Dibromoethane	ND		1.00	1	10/19/2015 02:41	WG822800
1,2-Dichlorobenzene	ND		1.00	1	10/19/2015 02:41	WG822800
1,3-Dichlorobenzene	ND		1.00	1	10/19/2015 02:41	WG822800
1,4-Dichlorobenzene	ND		1.00	1	10/19/2015 02:41	WG822800
Dichlorodifluoromethane	ND		5.00	1	10/19/2015 02:41	WG822800
1,1-Dichloroethane	ND		1.00	1	10/19/2015 02:41	WG822800
1,2-Dichloroethane	ND		1.00	1	10/19/2015 02:41	WG822800
1,1-Dichloroethene	ND		1.00	1	10/19/2015 02:41	WG822800
cis-1,2-Dichloroethene	ND		1.00	1	10/19/2015 02:41	WG822800
trans-1,2-Dichloroethene	ND		1.00	1	10/19/2015 02:41	WG822800
1,2-Dichloropropane	ND		1.00	1	10/19/2015 02:41	WG822800
cis-1,3-Dichloropropene	ND		1.00	1	10/19/2015 02:41	WG822800
trans-1,3-Dichloropropene	ND		1.00	1	10/19/2015 02:41	WG822800
Ethylbenzene	ND		1.00	1	10/19/2015 02:41	WG822800
2-Hexanone	ND		10.0	1	10/19/2015 02:41	WG822800
Isopropylbenzene	ND		1.00	1	10/19/2015 02:41	WG822800
2-Butanone (MEK)	ND		10.0	1	10/19/2015 02:41	WG822800
Methyl Acetate	ND		20.0	1	10/19/2015 02:41	WG822800
Methyl Cyclohexane	ND		1.00	1	10/19/2015 02:41	WG822800
Methylene Chloride	ND		5.00	1	10/19/2015 02:41	WG822800
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/19/2015 02:41	WG822800
Methyl tert-butyl ether	ND		1.00	1	10/19/2015 02:41	WG822800
Styrene	ND		1.00	1	10/19/2015 02:41	WG822800
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/19/2015 02:41	WG822800

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Tetrachloroethene	ND		1.00	1	10/19/2015 02:41	WG822800
Toluene	ND		5.00	1	10/19/2015 02:41	WG822800
1,2,3-Trichlorobenzene	ND		1.00	1	10/19/2015 02:41	WG822800
1,2,4-Trichlorobenzene	ND		1.00	1	10/19/2015 02:41	WG822800
1,1,1-Trichloroethane	ND		1.00	1	10/19/2015 02:41	WG822800
1,1,2-Trichloroethane	ND		1.00	1	10/19/2015 02:41	WG822800
Trichloroethene	7.05		1.00	1	10/19/2015 02:41	WG822800
Trichlorofluoromethane	ND		5.00	1	10/19/2015 02:41	WG822800
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/19/2015 02:41	WG822800
Vinyl chloride	ND		1.00	1	10/19/2015 02:41	WG822800
Xylenes, Total	ND		3.00	1	10/19/2015 02:41	WG822800
(S) Toluene-d8	*106*		*90.0-115*		*10/19/2015 02:41*	WG822800
(S) Dibromofluoromethane	*99.2*		*79.0-121*		*10/19/2015 02:41*	WG822800
(S) a,a,a-Trifluorotoluene	*107*		*90.4-116*		*10/19/2015 02:41*	WG822800
(S) 4-Bromofluorobenzene	*102*		*80.1-120*		*10/19/2015 02:41*	WG822800

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	10/14/2015 09:12	WG821311

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		10.0	1	10/15/2015 16:57	WG821543
Barium	51.9		5.00	1	10/15/2015 16:57	WG821543
Cadmium	ND		2.00	1	10/15/2015 16:57	WG821543
Chromium	ND		10.0	1	10/15/2015 16:57	WG821543
Lead	ND		5.00	1	10/15/2015 16:57	WG821543
Selenium	ND		10.0	1	10/15/2015 16:57	WG821543
Silver	ND		5.00	1	10/15/2015 16:57	WG821543

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	10/16/2015 17:34	WG822246
Benzene	ND		1.00	1	10/16/2015 17:34	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 17:34	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 17:34	WG822246
Bromoform	ND		1.00	1	10/16/2015 17:34	WG822246
Bromomethane	ND		5.00	1	10/16/2015 17:34	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 17:34	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 17:34	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 17:34	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 17:34	WG822246
Chloroethane	ND		5.00	1	10/16/2015 17:34	WG822246
Chloroform	ND		5.00	1	10/16/2015 17:34	WG822246
Chloromethane	ND		2.50	1	10/16/2015 17:34	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 17:34	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 17:34	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 17:34	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 17:34	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 17:34	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 17:34	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 17:34	WG822246
1,1-Dichloroethane	7.55		1.00	1	10/16/2015 17:34	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 17:34	WG822246
1,1-Dichloroethene	2.19		1.00	1	10/16/2015 17:34	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 17:34	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 17:34	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 17:34	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 17:34	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 17:34	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 17:34	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 17:34	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 17:34	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 17:34	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 17:34	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 17:34	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 17:34	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 17:34	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 17:34	WG822246
Styrene	ND		1.00	1	10/16/2015 17:34	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 17:34	WG822246

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Tetrachloroethene	ND		1.00	1	10/16/2015 17:34	WG822246
Toluene	ND		5.00	1	10/16/2015 17:34	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 17:34	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 17:34	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 17:34	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 17:34	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 17:34	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 17:34	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 17:34	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 17:34	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 17:34	WG822246
(S) Toluene-d8	*103*		*90.0-115*		*10/16/2015 17:34*	WG822246
(S) Dibromofluoromethane	*97.1*		*79.0-121*		*10/16/2015 17:34*	WG822246
(S) a,a,a-Trifluorotoluene	*106*		*90.4-116*		*10/16/2015 17:34*	WG822246
(S) 4-Bromofluorobenzene	*109*		*80.1-120*		*10/16/2015 17:34*	WG822246

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	10/14/2015 09:14	WG821311

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		10.0	1	10/15/2015 17:01	WG821543
Barium	44.8		5.00	1	10/15/2015 17:01	WG821543
Cadmium	ND		2.00	1	10/15/2015 17:01	WG821543
Chromium	ND		10.0	1	10/15/2015 17:01	WG821543
Lead	ND		5.00	1	10/15/2015 17:01	WG821543
Selenium	ND		10.0	1	10/15/2015 17:01	WG821543
Silver	ND		5.00	1	10/15/2015 17:01	WG821543

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	10/16/2015 17:52	WG822246
Benzene	ND		1.00	1	10/16/2015 17:52	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 17:52	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 17:52	WG822246
Bromoform	ND		1.00	1	10/16/2015 17:52	WG822246
Bromomethane	ND		5.00	1	10/16/2015 17:52	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 17:52	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 17:52	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 17:52	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 17:52	WG822246
Chloroethane	ND		5.00	1	10/16/2015 17:52	WG822246
Chloroform	ND		5.00	1	10/16/2015 17:52	WG822246
Chloromethane	ND		2.50	1	10/16/2015 17:52	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 17:52	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 17:52	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 17:52	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 17:52	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 17:52	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 17:52	WG822246
Dichlorodifluoromethane	22.8		5.00	1	10/16/2015 17:52	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 17:52	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 17:52	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 17:52	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 17:52	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 17:52	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 17:52	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 17:52	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 17:52	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 17:52	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 17:52	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 17:52	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 17:52	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 17:52	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 17:52	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 17:52	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 17:52	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 17:52	WG822246
Styrene	ND		1.00	1	10/16/2015 17:52	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 17:52	WG822246

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Tetrachloroethene	ND		1.00	1	10/16/2015 17:52	WG822246
Toluene	ND		5.00	1	10/16/2015 17:52	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 17:52	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 17:52	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 17:52	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 17:52	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 17:52	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 17:52	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 17:52	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 17:52	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 17:52	WG822246
(S) Toluene-d8	*106*		*90.0-115*		*10/16/2015 17:52*	WG822246
(S) Dibromofluoromethane	*96.1*		*79.0-121*		*10/16/2015 17:52*	WG822246
(S) a,a,a-Trifluorotoluene	*107*		*90.4-116*		*10/16/2015 17:52*	WG822246
(S) 4-Bromofluorobenzene	*107*		*80.1-120*		*10/16/2015 17:52*	WG822246

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	10/14/2015 09:16	WG821311

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		10.0	1	10/15/2015 17:04	WG821543
Barium	110		5.00	1	10/15/2015 17:04	WG821543
Cadmium	ND		2.00	1	10/15/2015 17:04	WG821543
Chromium	ND		10.0	1	10/15/2015 17:04	WG821543
Lead	ND		5.00	1	10/15/2015 17:04	WG821543
Selenium	ND		10.0	1	10/15/2015 17:04	WG821543
Silver	ND		5.00	1	10/15/2015 17:04	WG821543

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	10/16/2015 18:10	WG822246
Benzene	ND		1.00	1	10/16/2015 18:10	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 18:10	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 18:10	WG822246
Bromoform	ND		1.00	1	10/16/2015 18:10	WG822246
Bromomethane	ND		5.00	1	10/16/2015 18:10	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 18:10	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 18:10	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 18:10	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 18:10	WG822246
Chloroethane	ND		5.00	1	10/16/2015 18:10	WG822246
Chloroform	ND		5.00	1	10/16/2015 18:10	WG822246
Chloromethane	ND		2.50	1	10/16/2015 18:10	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 18:10	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 18:10	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 18:10	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 18:10	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 18:10	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 18:10	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 18:10	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 18:10	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 18:10	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 18:10	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 18:10	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 18:10	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 18:10	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 18:10	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 18:10	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 18:10	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 18:10	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 18:10	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 18:10	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 18:10	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 18:10	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 18:10	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 18:10	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 18:10	WG822246
Styrene	ND		1.00	1	10/16/2015 18:10	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 18:10	WG822246

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Tetrachloroethene	ND		1.00	1	10/16/2015 18:10	WG822246
Toluene	ND		5.00	1	10/16/2015 18:10	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 18:10	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 18:10	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 18:10	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 18:10	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 18:10	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 18:10	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 18:10	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 18:10	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 18:10	WG822246
(S) Toluene-d8	*99.8*		*90.0-115*		*10/16/2015 18:10*	WG822246
(S) Dibromofluoromethane	*98.1*		*79.0-121*		*10/16/2015 18:10*	WG822246
(S) a,a,a-Trifluorotoluene	*105*		*90.4-116*		*10/16/2015 18:10*	WG822246
(S) 4-Bromofluorobenzene	*104*		*80.1-120*		*10/16/2015 18:10*	WG822246

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	10/14/2015 09:18	WG821311

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		10.0	1	10/15/2015 17:07	WG821543
Barium	129		5.00	1	10/15/2015 17:07	WG821543
Cadmium	ND		2.00	1	10/15/2015 17:07	WG821543
Chromium	ND		10.0	1	10/15/2015 17:07	WG821543
Lead	ND		5.00	1	10/15/2015 17:07	WG821543
Selenium	ND		10.0	1	10/15/2015 17:07	WG821543
Silver	ND		5.00	1	10/15/2015 17:07	WG821543

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	10/16/2015 18:28	WG822246
Benzene	ND		1.00	1	10/16/2015 18:28	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 18:28	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 18:28	WG822246
Bromoform	ND		1.00	1	10/16/2015 18:28	WG822246
Bromomethane	ND		5.00	1	10/16/2015 18:28	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 18:28	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 18:28	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 18:28	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 18:28	WG822246
Chloroethane	ND		5.00	1	10/16/2015 18:28	WG822246
Chloroform	ND		5.00	1	10/16/2015 18:28	WG822246
Chloromethane	ND		2.50	1	10/16/2015 18:28	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 18:28	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 18:28	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 18:28	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 18:28	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 18:28	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 18:28	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 18:28	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 18:28	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 18:28	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 18:28	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 18:28	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 18:28	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 18:28	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 18:28	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 18:28	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 18:28	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 18:28	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 18:28	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 18:28	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 18:28	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 18:28	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 18:28	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 18:28	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 18:28	WG822246
Styrene	ND		1.00	1	10/16/2015 18:28	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 18:28	WG822246

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Tetrachloroethene	ND		1.00	1	10/16/2015 18:28	WG822246
Toluene	ND		5.00	1	10/16/2015 18:28	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 18:28	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 18:28	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 18:28	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 18:28	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 18:28	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 18:28	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 18:28	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 18:28	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 18:28	WG822246
(S) Toluene-d8	*104*		*90.0-115*		*10/16/2015 18:28*	WG822246
(S) Dibromofluoromethane	*94.4*		*79.0-121*		*10/16/2015 18:28*	WG822246
(S) α,α,α-Trifluorotoluene	*104*		*90.4-116*		*10/16/2015 18:28*	WG822246
(S) 4-Bromofluorobenzene	*106*		*80.1-120*		*10/16/2015 18:28*	WG822246

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	10/14/2015 09:20	WG821311

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		10.0	1	10/15/2015 17:10	WG821543
Barium	ND		5.00	1	10/15/2015 17:10	WG821543
Cadmium	ND		2.00	1	10/15/2015 17:10	WG821543
Chromium	ND		10.0	1	10/15/2015 17:10	WG821543
Lead	ND		5.00	1	10/15/2015 17:10	WG821543
Selenium	ND		10.0	1	10/15/2015 17:10	WG821543
Silver	ND		5.00	1	10/15/2015 17:10	WG821543

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	10/16/2015 13:00	WG822246
Benzene	ND		1.00	1	10/16/2015 13:00	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 13:00	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 13:00	WG822246
Bromoform	ND		1.00	1	10/16/2015 13:00	WG822246
Bromomethane	ND		5.00	1	10/16/2015 13:00	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 13:00	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 13:00	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 13:00	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 13:00	WG822246
Chloroethane	ND		5.00	1	10/16/2015 13:00	WG822246
Chloroform	ND		5.00	1	10/16/2015 13:00	WG822246
Chloromethane	ND		2.50	1	10/16/2015 13:00	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 13:00	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 13:00	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 13:00	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 13:00	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 13:00	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 13:00	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 13:00	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 13:00	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 13:00	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 13:00	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 13:00	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 13:00	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 13:00	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 13:00	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 13:00	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 13:00	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 13:00	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 13:00	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 13:00	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 13:00	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 13:00	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 13:00	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 13:00	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 13:00	WG822246
Styrene	ND		1.00	1	10/16/2015 13:00	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 13:00	WG822246

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Tetrachloroethene	ND		1.00	1	10/16/2015 13:00	WG822246
Toluene	ND		5.00	1	10/16/2015 13:00	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 13:00	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 13:00	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 13:00	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 13:00	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 13:00	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 13:00	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 13:00	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 13:00	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 13:00	WG822246
(S) Toluene-d8	*103*		*90.0-115*		*10/16/2015 13:00*	WG822246
(S) Dibromofluoromethane	*94.9*		*79.0-121*		*10/16/2015 13:00*	WG822246
(S) a,a,a-Trifluorotoluene	*106*		*90.4-116*		*10/16/2015 13:00*	WG822246
(S) 4-Bromofluorobenzene	*107*		*80.1-120*		*10/16/2015 13:00*	WG822246

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	10/16/2015 13:18	WG822246
Benzene	ND		1.00	1	10/16/2015 13:18	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 13:18	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 13:18	WG822246
Bromoform	ND		1.00	1	10/16/2015 13:18	WG822246
Bromomethane	ND		5.00	1	10/16/2015 13:18	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 13:18	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 13:18	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 13:18	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 13:18	WG822246
Chloroethane	ND		5.00	1	10/16/2015 13:18	WG822246
Chloroform	ND		5.00	1	10/16/2015 13:18	WG822246
Chloromethane	ND		2.50	1	10/16/2015 13:18	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 13:18	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 13:18	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 13:18	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 13:18	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 13:18	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 13:18	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 13:18	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 13:18	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 13:18	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 13:18	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 13:18	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 13:18	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 13:18	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 13:18	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 13:18	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 13:18	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 13:18	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 13:18	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 13:18	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 13:18	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 13:18	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 13:18	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 13:18	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 13:18	WG822246
Styrene	ND		1.00	1	10/16/2015 13:18	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 13:18	WG822246
Tetrachloroethene	ND		1.00	1	10/16/2015 13:18	WG822246
Toluene	ND		5.00	1	10/16/2015 13:18	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 13:18	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 13:18	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 13:18	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 13:18	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 13:18	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 13:18	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 13:18	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 13:18	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 13:18	WG822246
(S) Toluene-d8	*105*		*90.0-115*		*10/16/2015 13:18*	WG822246
(S) Dibromofluoromethane	*99.3*		*79.0-121*		*10/16/2015 13:18*	WG822246
(S) a,a,a-Trifluorotoluene	*109*		*90.4-116*		*10/16/2015 13:18*	WG822246
(S) 4-Bromofluorobenzene	*110*		*80.1-120*		*10/16/2015 13:18*	WG822246

Method Blank (MB)

(MB) 10/14/15 08:27

Analyte	MB Result	MB Qualifier	MB RDL
	mg/l		mg/l
Mercury	ND		0.000200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/14/15 08:29 • (LCSD) 10/14/15 08:32

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Mercury	0.00300	0.00282	0.00266	94	89	80-120			6	20

L793873-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 10/14/15 08:38 • (MS) 10/14/15 08:41 • (MSD) 10/14/15 08:43

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Mercury	0.00300	0.0000259	0.00283	0.00281	93	93	1	75-125			1	20

Method Blank (MB)

(MB) 10/15/15 09:28

Analyte	MB Result	MB Qualifier	MB RDL
	mg/l		mg/l
Mercury	ND		0.000200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/15/15 09:31 • (LCSD) 10/15/15 09:33

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Mercury	0.00300	0.00302	0.00243	101	81	80-120		J3	22	20

L793892-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 10/15/15 09:35 • (MS) 10/15/15 09:37 • (MSD) 10/15/15 09:44

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Mercury	0.00300	ND	0.00293	0.00260	98	87	1	75-125			12	20

Method Blank (MB)

(MB) 10/15/15 16:06

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Arsenic	ND		0.0100
Barium	ND		0.00500
Cadmium	ND		0.00200
Chromium	ND		0.0100
Lead	ND		0.00500
Selenium	ND		0.0100
Silver	ND		0.00500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/15/15 16:09 • (LCSD) 10/15/15 16:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	1.00	1.00	0.980	100	98	80-120			2	20
Barium	1.00	0.984	0.966	98	97	80-120			2	20
Cadmium	1.00	1.01	0.989	101	99	80-120			2	20
Chromium	1.00	1.02	1.01	102	101	80-120			2	20
Lead	1.00	1.04	1.01	104	101	80-120			2	20
Selenium	1.00	1.04	1.03	104	103	80-120			1	20
Silver	1.00	1.03	1.01	103	101	80-120			2	20

L793892-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 10/15/15 16:15 • (MS) 10/15/15 16:21 • (MSD) 10/15/15 16:24

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	1.00	0.00603	1.04	1.03	104	102	1	75-125			1	20
Barium	1.00	0.0563	1.03	1.02	97	96	1	75-125			1	20
Cadmium	1.00	0.000308	1.03	1.02	103	102	1	75-125			1	20
Chromium	1.00	ND	1.03	1.00	103	100	1	75-125			3	20
Lead	1.00	0.00420	1.04	1.05	104	104	1	75-125			0	20
Selenium	1.00	ND	1.08	1.08	108	108	1	75-125			0	20
Silver	1.00	ND	1.05	1.02	105	102	1	75-125			3	20

Method Blank (MB)

(MB) 10/16/15 12:37

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Acetone	ND		0.0500
Benzene	ND		0.00100
Bromodichloromethane	ND		0.00100
Bromochloromethane	ND		0.00100
Bromoform	ND		0.00100
Bromomethane	ND		0.00500
Carbon disulfide	ND		0.00100
Carbon tetrachloride	ND		0.00100
Chlorobenzene	ND		0.00100
Chlorodibromomethane	ND		0.00100
Chloroethane	ND		0.00500
Chloroform	ND		0.00500
Chloromethane	ND		0.00250
Cyclohexane	ND		0.00100
1,2-Dibromo-3-Chloropropane	ND		0.00500
1,2-Dibromoethane	ND		0.00100
1,2-Dichlorobenzene	ND		0.00100
1,3-Dichlorobenzene	ND		0.00100
1,4-Dichlorobenzene	ND		0.00100
Dichlorodifluoromethane	ND		0.00500
1,1-Dichloroethane	ND		0.00100
1,2-Dichloroethane	ND		0.00100
1,1-Dichloroethene	ND		0.00100
cis-1,2-Dichloroethene	ND		0.00100
trans-1,2-Dichloroethene	ND		0.00100
1,2-Dichloropropane	ND		0.00100
cis-1,3-Dichloropropene	ND		0.00100
trans-1,3-Dichloropropene	ND		0.00100
Ethylbenzene	ND		0.00100
2-Hexanone	ND		0.0100
Isopropylbenzene	ND		0.00100
2-Butanone (MEK)	ND		0.0100
Methyl Acetate	ND		0.0200
Methyl Cyclohexane	ND		0.00100
Methylene Chloride	ND		0.00500
4-Methyl-2-pentanone (MIBK)	ND		0.0100

Method Blank (MB)

(MB) 10/16/15 12:37

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Methyl tert-butyl ether	ND		0.00100
Styrene	ND		0.00100
1,1,2,2-Tetrachloroethane	ND		0.00100
Tetrachloroethene	ND		0.00100
Toluene	ND		0.00500
1,1,2-Trichlorotrifluoroethane	ND		0.00100
1,2,3-Trichlorobenzene	ND		0.00100
1,2,4-Trichlorobenzene	ND		0.00100
1,1,1-Trichloroethane	ND		0.00100
1,1,2-Trichloroethane	ND		0.00100
Trichloroethene	ND		0.00100
Trichlorofluoromethane	ND		0.00500
Vinyl chloride	ND		0.00100
Xylenes, Total	ND		0.00300
(S) Toluene-d8	*107*		*90.0-115*
(S) Dibromofluoromethane	*99.1*		*79.0-121*
(S) α,α,α-Trifluorotoluene	*105*		*90.4-116*
(S) 4-Bromofluorobenzene	*106*		*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/16/15 11:06 • (LCSD) 10/16/15 11:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.178	0.191	142	152	28.7-175			6.93	20.9
Benzene	0.0250	0.0243	0.0231	97.2	92.5	73.0-122			4.97	20
Bromodichloromethane	0.0250	0.0285	0.0259	114	104	75.5-121			9.55	20
Bromochloromethane	0.0250	0.0258	0.0249	103	99.5	78.9-123			3.63	20
Bromoform	0.0250	0.0267	0.0253	107	101	71.5-131			5.54	20
Bromomethane	0.0250	0.0277	0.0261	111	104	22.4-187			5.86	20
Carbon disulfide	0.0250	0.0288	0.0275	115	110	53.0-134			4.55	20
Carbon tetrachloride	0.0250	0.0273	0.0263	109	105	70.9-129			3.55	20
Chlorobenzene	0.0250	0.0268	0.0252	107	101	79.7-122			6.13	20
Chlorodibromomethane	0.0250	0.0276	0.0263	110	105	78.2-124			4.86	20
Chloroethane	0.0250	0.0288	0.0274	115	110	41.2-153			5.07	20
Chloroform	0.0250	0.0263	0.0257	105	103	73.2-125			2.30	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/16/15 11:06 • (LCSD) 10/16/15 11:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloromethane	0.0250	0.0231	0.0228	92.4	91.2	55.8-134			1.37	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0232	0.0259	92.7	104	64.8-131			11.2	20
1,2-Dibromoethane	0.0250	0.0257	0.0248	103	99.0	79.8-122			3.85	20
1,2-Dichlorobenzene	0.0250	0.0250	0.0264	100	105	84.7-118			5.25	20
1,3-Dichlorobenzene	0.0250	0.0271	0.0253	108	101	77.6-127			6.94	20
1,4-Dichlorobenzene	0.0250	0.0247	0.0237	98.8	95.0	82.2-114			3.99	20
Dichlorodifluoromethane	0.0250	0.0272	0.0257	109	103	56.0-134			5.66	20
1,1-Dichloroethane	0.0250	0.0258	0.0251	103	100	71.7-127			2.92	20
1,2-Dichloroethane	0.0250	0.0272	0.0261	109	105	79.8-122			3.83	20
1,1-Dichloroethene	0.0250	0.0310	0.0295	124	118	59.9-137			5.03	20
cis-1,2-Dichloroethene	0.0250	0.0250	0.0243	99.8	97.3	77.3-122			2.51	20
trans-1,2-Dichloroethene	0.0250	0.0253	0.0250	101	100	72.6-125			1.25	20
1,2-Dichloropropane	0.0250	0.0267	0.0247	107	98.9	77.4-125			7.57	20
cis-1,3-Dichloropropene	0.0250	0.0274	0.0261	110	104	77.7-124			4.88	20
trans-1,3-Dichloropropene	0.0250	0.0289	0.0265	116	106	73.5-127			8.52	20
Ethylbenzene	0.0250	0.0276	0.0257	110	103	80.9-121			7.00	20
2-Hexanone	0.125	0.154	0.151	123	120	59.4-151			2.26	20
Isopropylbenzene	0.0250	0.0283	0.0257	113	103	81.6-124			9.81	20
2-Butanone (MEK)	0.125	0.137	0.141	109	113	46.4-155			3.22	20
Methylene Chloride	0.0250	0.0248	0.0241	99.1	96.3	69.5-120			2.80	20
4-Methyl-2-pentanone (MIBK)	0.125	0.130	0.126	104	101	63.3-138			3.57	20
Methyl tert-butyl ether	0.0250	0.0265	0.0253	106	101	70.1-125			4.52	20
Styrene	0.0250	0.0282	0.0266	113	106	79.9-124			5.71	20
1,1,2,2-Tetrachloroethane	0.0250	0.0255	0.0244	102	97.7	79.3-123			4.31	20
Tetrachloroethene	0.0250	0.0273	0.0259	109	103	73.5-130			5.36	20
Toluene	0.0250	0.0254	0.0241	102	96.3	77.9-116			5.45	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0290	0.0284	116	114	62.0-141			1.99	20
1,2,3-Trichlorobenzene	0.0250	0.0255	0.0250	102	100	75.7-134			1.98	20
1,2,4-Trichlorobenzene	0.0250	0.0264	0.0268	106	107	76.1-136			1.59	20
1,1,1-Trichloroethane	0.0250	0.0273	0.0271	109	108	71.1-129			0.840	20
1,1,2-Trichloroethane	0.0250	0.0263	0.0254	105	101	81.6-120			3.54	20
Trichloroethene	0.0250	0.0269	0.0259	108	104	79.5-121			3.86	20
Trichlorofluoromethane	0.0250	0.0291	0.0276	116	110	49.1-157			5.19	20
Vinyl chloride	0.0250	0.0292	0.0279	117	112	61.5-134			4.28	20
Xylenes, Total	0.0750	0.0812	0.0771	108	103	79.2-122			5.15	20
(S) Toluene-d8				*108*	*102*	*90.0-115*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/16/15 11:06 • (LCSD) 10/16/15 11:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
(S) Dibromofluoromethane				*96.3*	*99.0*	*79.0-121*				
(S) α,α,α-Trifluorotoluene				*105*	*103*	*90.4-116*				
(S) 4-Bromofluorobenzene				*102*	*102*	*80.1-120*				

L793892-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 10/16/15 13:36 • (MS) 10/16/15 13:55 • (MSD) 10/16/15 14:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.00228	0.0769	0.0776	59.7	60.2	1	25.0-156			0.850	21.5
Benzene	0.0250	ND	0.0180	0.0205	71.9	81.8	1	58.6-133			13.0	20
Bromodichloromethane	0.0250	ND	0.0237	0.0262	94.8	105	1	69.2-127			10.2	20
Bromochloromethane	0.0250	ND	0.0200	0.0234	79.9	93.5	1	74.4-128			15.6	20
Bromoform	0.0250	ND	0.0240	0.0266	96.1	106	1	66.3-140			10.3	20
Bromomethane	0.0250	ND	0.0183	0.0200	73.3	79.8	1	16.6-183			8.46	20.5
Carbon disulfide	0.0250	ND	0.0148	0.0167	59.1	67.0	1	34.9-138			12.5	20
Carbon tetrachloride	0.0250	ND	0.0212	0.0243	84.9	97.0	1	60.6-139			13.3	20
Chlorobenzene	0.0250	ND	0.0218	0.0244	87.2	97.7	1	70.1-130			11.3	20
Chlorodibromomethane	0.0250	ND	0.0237	0.0264	94.6	106	1	71.6-132			11.0	20
Chloroethane	0.0250	ND	0.0192	0.0221	76.8	88.5	1	33.3-155			14.2	20
Chloroform	0.0250	ND	0.0214	0.0251	85.7	100	1	66.1-133			15.8	20
Chloromethane	0.0250	ND	0.0135	0.0154	53.9	61.6	1	40.7-139			13.4	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0240	0.0262	96.1	105	1	63.9-142			8.64	20.2
1,2-Dibromoethane	0.0250	ND	0.0218	0.0242	87.1	96.8	1	73.8-131			10.6	20
1,2-Dichlorobenzene	0.0250	ND	0.0212	0.0248	85.0	99.3	1	77.4-127			15.6	20
1,3-Dichlorobenzene	0.0250	ND	0.0230	0.0259	92.1	103	1	67.9-136			11.6	20
1,4-Dichlorobenzene	0.0250	ND	0.0208	0.0227	83.1	90.8	1	74.4-123			8.84	20
Dichlorodifluoromethane	0.0250	0.00132	0.0184	0.0208	68.2	77.7	1	42.2-146			12.2	20
1,1-Dichloroethane	0.0250	0.000305	0.0205	0.0229	80.8	90.4	1	64.0-134			11.0	20
1,2-Dichloroethane	0.0250	ND	0.0235	0.0250	94.1	100	1	60.7-132			6.29	20
1,1-Dichloroethene	0.0250	ND	0.0216	0.0245	86.6	98.2	1	48.8-144			12.5	20
cis-1,2-Dichloroethene	0.0250	ND	0.0192	0.0222	76.6	88.9	1	60.6-136			14.9	20
trans-1,2-Dichloroethene	0.0250	ND	0.0183	0.0199	73.1	79.7	1	61.0-132			8.75	20
1,2-Dichloropropane	0.0250	ND	0.0209	0.0235	83.8	94.0	1	69.7-130			11.5	20
cis-1,3-Dichloropropene	0.0250	ND	0.0216	0.0244	86.3	97.5	1	71.1-129			12.2	20
trans-1,3-Dichloropropene	0.0250	ND	0.0233	0.0266	93.3	106	1	66.3-136			13.0	20

L793892-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 10/16/15 13:36 • (MS) 10/16/15 13:55 • (MSD) 10/16/15 14:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.0250	ND	0.0218	0.0244	87.0	97.6	1	62.7-136			11.5	20
2-Hexanone	0.125	ND	0.117	0.124	94.0	99.3	1	59.4-154			5.51	20.1
Isopropylbenzene	0.0250	ND	0.0218	0.0250	87.1	99.9	1	67.4-136			13.7	20
2-Butanone (MEK)	0.125	ND	0.0891	0.0905	71.3	72.4	1	45.0-156			1.51	20.8
Methylene Chloride	0.0250	0.000550	0.0192	0.0208	74.8	81.0	1	61.5-125			7.78	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.119	0.127	95.0	102	1	60.7-150			6.97	20
Methyl tert-butyl ether	0.0250	ND	0.0224	0.0239	89.5	95.5	1	61.4-136			6.49	20
Styrene	0.0250	ND	0.0215	0.0252	86.2	101	1	68.2-133			15.6	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0241	0.0261	96.6	104	1	64.9-145			7.82	20
Tetrachloroethene	0.0250	ND	0.0207	0.0243	82.8	97.1	1	57.4-141			15.9	20
Toluene	0.0250	ND	0.0197	0.0225	78.9	90.0	1	67.8-124			13.2	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0221	0.0257	88.2	103	1	53.7-150			15.2	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0216	0.0240	86.6	95.9	1	65.7-143			10.2	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0228	0.0255	91.4	102	1	67.0-146			11.2	20
1,1,1-Trichloroethane	0.0250	ND	0.0219	0.0250	87.8	99.9	1	62.8-138			12.9	20
1,1,2-Trichloroethane	0.0250	ND	0.0227	0.0255	90.9	102	1	74.1-130			11.7	20
Trichloroethene	0.0250	ND	0.0205	0.0233	82.0	93.3	1	48.9-148			12.9	20
Trichlorofluoromethane	0.0250	0.000396	0.0221	0.0251	86.7	98.8	1	39.9-165			12.8	20
Vinyl chloride	0.0250	ND	0.0179	0.0208	71.7	83.3	1	44.3-143			15.0	20
Xylenes, Total	0.0750	ND	0.0614	0.0715	81.9	95.3	1	65.6-133			15.1	20
(S) Toluene-d8					*104*	*105*		*90.0-115*				
(S) Dibromofluoromethane					*97.9*	*97.6*		*79.0-121*				
(S) α,α,α-Trifluorotoluene					*104*	*105*		*90.4-116*				
(S) 4-Bromofluorobenzene					*104*	*105*		*80.1-120*				

Method Blank (MB)

(MB) 10/19/15 07:47

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Chloroethane	ND		0.00500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/19/15 05:32 • (LCSD) 10/19/15 05:54

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloroethane	0.0250	0.0189	0.0186	75.5	74.6	41.2-153			1.27	20

Method Blank (MB)

(MB) 10/18/15 23:27

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Acetone	ND		0.0500
Benzene	ND		0.00100
Bromodichloromethane	ND		0.00100
Bromochloromethane	ND		0.00100
Bromoform	ND		0.00100
Bromomethane	ND		0.00500
Carbon disulfide	ND		0.00100
Carbon tetrachloride	ND		0.00100
Chlorobenzene	ND		0.00100
Chlorodibromomethane	ND		0.00100
Chloroform	ND		0.00500
Chloromethane	ND		0.00250
Cyclohexane	ND		0.00100
1,2-Dibromo-3-Chloropropane	ND		0.00500
1,2-Dibromoethane	ND		0.00100
1,2-Dichlorobenzene	ND		0.00100
1,3-Dichlorobenzene	ND		0.00100
1,4-Dichlorobenzene	ND		0.00100
Dichlorodifluoromethane	ND		0.00500
1,1-Dichloroethane	ND		0.00100
1,2-Dichloroethane	ND		0.00100
1,1-Dichloroethene	ND		0.00100
cis-1,2-Dichloroethene	ND		0.00100
trans-1,2-Dichloroethene	ND		0.00100
1,2-Dichloropropane	ND		0.00100
cis-1,3-Dichloropropene	ND		0.00100
trans-1,3-Dichloropropene	ND		0.00100
Ethylbenzene	ND		0.00100
2-Hexanone	ND		0.0100
Isopropylbenzene	ND		0.00100
2-Butanone (MEK)	ND		0.0100
Methyl Acetate	ND		0.0200
Methyl Cyclohexane	ND		0.00100
Methylene Chloride	ND		0.00500
4-Methyl-2-pentanone (MIBK)	ND		0.0100
Methyl tert-butyl ether	ND		0.00100

Method Blank (MB)

(MB) 10/18/15 23:27

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Styrene	ND		0.00100
1,1,2,2-Tetrachloroethane	ND		0.00100
Tetrachloroethene	ND		0.00100
Toluene	ND		0.00500
1,1,2-Trichlorotrifluoroethane	ND		0.00100
1,2,3-Trichlorobenzene	ND		0.00100
1,2,4-Trichlorobenzene	ND		0.00100
1,1,1-Trichloroethane	ND		0.00100
1,1,2-Trichloroethane	ND		0.00100
Trichloroethene	ND		0.00100
Trichlorofluoromethane	ND		0.00500
Vinyl chloride	ND		0.00100
Xylenes, Total	ND		0.00300
(S) Toluene-d8	*105*		*90.0-115*
(S) Dibromofluoromethane	*94.9*		*79.0-121*
(S) α,α,α-Trifluorotoluene	*104*		*90.4-116*
(S) 4-Bromofluorobenzene	*101*		*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/18/15 21:04 • (LCSD) 10/18/15 21:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.122	0.123	97.6	98.3	28.7-175			0.750	20.9
Benzene	0.0250	0.0233	0.0236	93.1	94.4	73.0-122			1.46	20
Bromodichloromethane	0.0250	0.0238	0.0240	95.2	96.0	75.5-121			0.740	20
Bromochloromethane	0.0250	0.0249	0.0255	99.8	102	78.9-123			2.12	20
Bromoform	0.0250	0.0235	0.0232	93.9	92.8	71.5-131			1.13	20
Bromomethane	0.0250	0.0282	0.0283	113	113	22.4-187			0.310	20
Carbon disulfide	0.0250	0.0229	0.0224	91.7	89.6	53.0-134			2.28	20
Carbon tetrachloride	0.0250	0.0232	0.0236	92.8	94.5	70.9-129			1.76	20
Chlorobenzene	0.0250	0.0254	0.0240	101	96.0	79.7-122			5.57	20
Chlorodibromomethane	0.0250	0.0231	0.0233	92.3	93.1	78.2-124			0.860	20
Chloroform	0.0250	0.0245	0.0249	98.0	99.8	73.2-125			1.82	20
Chloromethane	0.0250	0.0190	0.0187	76.1	74.7	55.8-134			1.79	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0219	0.0220	87.7	88.2	64.8-131			0.570	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/18/15 21:04 • (LCSD) 10/18/15 21:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,2-Dibromoethane	0.0250	0.0248	0.0240	99.1	96.1	79.8-122			3.09	20
1,2-Dichlorobenzene	0.0250	0.0245	0.0244	98.1	97.7	84.7-118			0.400	20
1,3-Dichlorobenzene	0.0250	0.0250	0.0237	100	94.8	77.6-127			5.33	20
1,4-Dichlorobenzene	0.0250	0.0242	0.0228	96.8	91.2	82.2-114			5.99	20
Dichlorodifluoromethane	0.0250	0.0228	0.0230	91.0	92.1	56.0-134			1.14	20
1,1-Dichloroethane	0.0250	0.0237	0.0241	94.7	96.6	71.7-127			1.96	20
1,2-Dichloroethane	0.0250	0.0234	0.0230	93.6	92.2	79.8-122			1.51	20
1,1-Dichloroethene	0.0250	0.0238	0.0238	95.1	95.2	59.9-137			0.100	20
cis-1,2-Dichloroethene	0.0250	0.0238	0.0235	95.3	94.0	77.3-122			1.29	20
trans-1,2-Dichloroethene	0.0250	0.0230	0.0233	91.9	93.4	72.6-125			1.61	20
1,2-Dichloropropane	0.0250	0.0236	0.0237	94.3	94.8	77.4-125			0.490	20
cis-1,3-Dichloropropene	0.0250	0.0247	0.0252	98.8	101	77.7-124			1.89	20
trans-1,3-Dichloropropene	0.0250	0.0245	0.0242	98.2	96.8	73.5-127			1.44	20
Ethylbenzene	0.0250	0.0246	0.0243	98.4	97.1	80.9-121			1.32	20
2-Hexanone	0.125	0.122	0.121	97.5	96.7	59.4-151			0.730	20
Isopropylbenzene	0.0250	0.0238	0.0236	95.1	94.3	81.6-124			0.790	20
2-Butanone (MEK)	0.125	0.121	0.122	97.0	97.7	46.4-155			0.640	20
Methylene Chloride	0.0250	0.0251	0.0253	100	101	69.5-120			1.07	20
4-Methyl-2-pentanone (MIBK)	0.125	0.120	0.124	95.7	99.0	63.3-138			3.38	20
Methyl tert-butyl ether	0.0250	0.0232	0.0239	92.6	95.7	70.1-125			3.29	20
Styrene	0.0250	0.0255	0.0240	102	95.9	79.9-124			6.36	20
1,1,2,2-Tetrachloroethane	0.0250	0.0254	0.0244	102	97.7	79.3-123			4.08	20
Tetrachloroethene	0.0250	0.0234	0.0229	93.6	91.5	73.5-130			2.34	20
Toluene	0.0250	0.0231	0.0235	92.2	94.1	77.9-116			1.97	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0237	0.0235	94.7	94.0	62.0-141			0.690	20
1,2,3-Trichlorobenzene	0.0250	0.0263	0.0248	105	99.2	75.7-134			5.93	20
1,2,4-Trichlorobenzene	0.0250	0.0265	0.0263	106	105	76.1-136			0.740	20
1,1,1-Trichloroethane	0.0250	0.0230	0.0234	92.1	93.8	71.1-129			1.75	20
1,1,2-Trichloroethane	0.0250	0.0241	0.0236	96.3	94.4	81.6-120			2.01	20
Trichloroethene	0.0250	0.0225	0.0231	90.0	92.3	79.5-121			2.61	20
Trichlorofluoromethane	0.0250	0.0262	0.0261	105	104	49.1-157			0.300	20
Vinyl chloride	0.0250	0.0236	0.0234	94.2	93.6	61.5-134			0.720	20
Xylenes, Total	0.0750	0.0732	0.0703	97.6	93.7	79.2-122			4.15	20
(S) Toluene-d8				*104*	*105*	*90.0-115*				
(S) Dibromofluoromethane				*99.7*	*98.0*	*79.0-121*				
(S) a,a,a-Trifluorotoluene				*102*	*105*	*90.4-116*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/18/15 21:04 • (LCSD) 10/18/15 21:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
(S) 4-Bromofluorobenzene				*103*	*97.9*	*80.1-120*				

L794661-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 10/19/15 01:52 • (MS) 10/18/15 23:51 • (MSD) 10/19/15 00:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0212	0.0735	0.0725	41.9	41.0	1	25.0-156			1.40	21.5
Benzene	0.0250	0.169	0.179	0.167	37.4	0.000	1	58.6-133	J6	J6	6.48	20
Bromodichloromethane	0.0250	0.000734	0.0245	0.0243	94.9	94.4	1	69.2-127			0.560	20
Bromochloromethane	0.0250	ND	0.0234	0.0234	93.5	93.4	1	74.4-128			0.0800	20
Bromoform	0.0250	ND	0.0221	0.0224	88.5	89.4	1	66.3-140			1.05	20
Bromomethane	0.0250	ND	0.0244	0.0242	97.4	96.7	1	16.6-183			0.780	20.5
Carbon disulfide	0.0250	ND	0.0143	0.0146	57.0	58.5	1	34.9-138			2.57	20
Carbon tetrachloride	0.0250	ND	0.0214	0.0225	85.8	90.1	1	60.6-139			4.93	20
Chlorobenzene	0.0250	ND	0.0233	0.0237	93.1	94.7	1	70.1-130			1.60	20
Chlorodibromomethane	0.0250	ND	0.0233	0.0229	93.2	91.7	1	71.6-132			1.67	20
Chloroform	0.0250	0.00514	0.0275	0.0289	89.3	95.2	1	66.1-133			5.21	20
Chloromethane	0.0250	0.00392	0.0193	0.0192	61.4	61.1	1	40.7-139			0.360	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0219	0.0231	87.5	92.3	1	63.9-142			5.34	20.2
1,2-Dibromoethane	0.0250	ND	0.0224	0.0224	89.4	89.6	1	73.8-131			0.240	20
1,2-Dichlorobenzene	0.0250	ND	0.0238	0.0243	95.3	97.0	1	77.4-127			1.84	20
1,3-Dichlorobenzene	0.0250	ND	0.0232	0.0227	92.8	90.9	1	67.9-136			2.02	20
1,4-Dichlorobenzene	0.0250	ND	0.0249	0.0233	99.6	93.1	1	74.4-123			6.78	20
Dichlorodifluoromethane	0.0250	ND	0.0179	0.0186	71.5	74.2	1	42.2-146			3.73	20
1,1-Dichloroethane	0.0250	0.000477	0.0230	0.0238	90.1	93.4	1	64.0-134			3.49	20
1,2-Dichloroethane	0.0250	ND	0.0223	0.0221	89.2	88.5	1	60.7-132			0.760	20
1,1-Dichloroethene	0.0250	ND	0.0208	0.0207	83.3	82.7	1	48.8-144			0.780	20
cis-1,2-Dichloroethene	0.0250	0.00125	0.0245	0.0243	93.0	92.1	1	60.6-136			0.900	20
trans-1,2-Dichloroethene	0.0250	ND	0.0200	0.0211	80.1	84.5	1	61.0-132			5.37	20
1,2-Dichloropropane	0.0250	0.00232	0.0233	0.0235	83.7	84.8	1	69.7-130			1.09	20
cis-1,3-Dichloropropene	0.0250	0.00503	0.0227	0.0236	70.9	74.4	1	71.1-129	J6		3.84	20
trans-1,3-Dichloropropene	0.0250	0.000999	0.0245	0.0242	93.9	92.7	1	66.3-136			1.26	20
Ethylbenzene	0.0250	0.0521	0.0685	0.0698	65.4	70.7	1	62.7-136			1.92	20
2-Hexanone	0.125	ND	0.0874	0.0965	69.9	77.2	1	59.4-154			9.91	20.1
Isopropylbenzene	0.0250	0.00537	0.0281	0.0285	90.9	92.4	1	67.4-136			1.27	20

L794661-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 10/19/15 01:52 • (MS) 10/18/15 23:51 • (MSD) 10/19/15 00:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2-Butanone (MEK)	0.125	0.0115	0.0950	0.0935	66.7	65.6	1	45.0-156			1.50	20.8
Methylene Chloride	0.0250	ND	0.0224	0.0223	89.5	89.3	1	61.5-125			0.230	20
4-Methyl-2-pentanone (MIBK)	0.125	0.00105	0.118	0.121	93.5	96.0	1	60.7-150			2.61	20
Methyl tert-butyl ether	0.0250	ND	0.0237	0.0235	94.6	94.0	1	61.4-136			0.640	20
Styrene	0.0250	0.00136	0.0255	0.0254	96.6	96.1	1	68.2-133			0.560	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0239	0.0236	95.7	94.3	1	64.9-145			1.41	20
Tetrachloroethene	0.0250	0.00156	0.0224	0.0223	83.5	83.0	1	57.4-141			0.670	20
Toluene	0.0250	0.283	0.283	0.267	0.651	0.000	1	67.8-124	J6	J6	5.99	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0220	0.0236	87.9	94.5	1	53.7-150			7.28	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0264	0.0263	106	105	1	65.7-143			0.390	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0270	0.0266	108	106	1	67.0-146			1.56	20
1,1,1-Trichloroethane	0.0250	ND	0.0233	0.0231	93.1	92.2	1	62.8-138			0.960	20
1,1,2-Trichloroethane	0.0250	0.00154	0.0235	0.0245	88.0	91.9	1	74.1-130			4.01	20
Trichloroethene	0.0250	0.000426	0.0220	0.0219	86.1	85.8	1	48.9-148			0.420	20
Trichlorofluoromethane	0.0250	ND	0.0227	0.0238	90.7	95.3	1	39.9-165			5.02	20
Vinyl chloride	0.0250	ND	0.0182	0.0192	72.7	76.7	1	44.3-143			5.42	20
Xylenes, Total	0.0750	0.158	0.220	0.211	82.5	70.6	1	65.6-133			4.15	20
(S) Toluene-d8					*106*	*104*		*90.0-115*				
(S) Dibromofluoromethane					*104*	*101*		*79.0-121*				
(S) a,a,a-Trifluorotoluene					*101*	*101*		*90.4-116*				
(S) 4-Bromofluorobenzene					*99.3*	*96.2*		*80.1-120*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND,U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
Rec.	Recovery.
SDL	Sample Detection Limit.
MQL	Method Quantitation Limit.
Unadj. MQL	Unadjusted Method Quantitation Limit.

Qualifier	Description
J3	The associated batch QC was outside the established quality control range for precision.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.

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South Carolina	84004
South Dakota	n/a
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Wyoming	A2LA

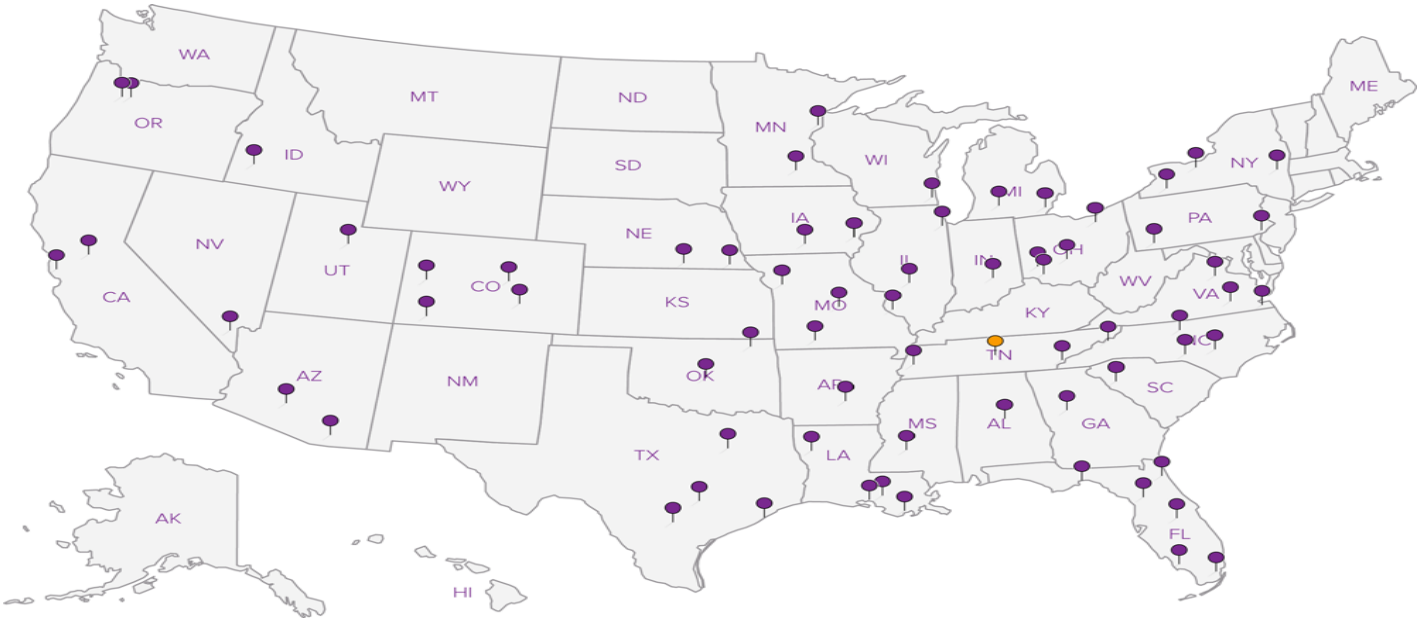
[1.] Drinking Water [2.] Underground Storage Tanks [3.] Aquatic Toxicity [4.] Chemical/Microbiological [5.] Mold [n/a] Accreditation not applicable

Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01
Canada	1461.01
EPA–Crypto	TN00003
AIHA	100789
DOD	1461.01
USDA	S-67674

Our Locations

ESC Lab Sciences has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. **ESC Lab Sciences performs all testing at our central laboratory.**



LaBella Associates, P.C.

300 State Street, Suite 201
Rochester, NY 14614

Billing Information:
Attn: Accounts Payable
300 State St., Ste. 201
Rochester, NY 14614
sdavis@labellapc.com

Report to: Mr. Dave Engert /Seth Davis
Email To: Jgillen@labellapc.com; dengert@labellapc.com; ~~srife@labellapc.com~~

Project Description: Former Photech Imaging Site
City/State Collected: Rochester, NY

Phone: 585-454-6110
Fax:

Client Project # 2151305
Lab Project #

Collected by (print): Nicholas Juliano
Site/Facility ID #
P.O. #

Collected by (signature): Nicholas P. Juliano
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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Phone: 800-767-5859
Fax: 615-758-5859

L# 79389 2
A243
Acctnum: LABRNY
Template: T106232
Prelogin: P527154
TSR: 364 - T. Alan Harvill
PB: 10-5-15 ME
Shipped Via: FedEX Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Metals 500mlHDPE-HNO3	V8260TCLC 40mlAmb-HCl								Rem./Contaminant	Sample # (lab only)
RMW-5	GRAB	GW	NA	10/7/15	1014	3	X	X									01
RMW-6	"	GW	"	10/7/15	1205	3	X	X									02
RMW-8	"	GW	"	10/7/15	1300	3	X	X									03
RMW-9	"	GW	"	10/7/15	1507	3	X	X									04
Blind Dup	"	GW	"	10/7/15	1800	3	X	X									05
RMW-7	"	GW	"	10/8/15	0930	9 NI	X	X								MS/MSD	06
RMW-4	"	GW	"	10/8/15	1126	3	X	X								Hold For Analysis	07
Well-07	"	GW	"	10/8/15	1302	3	X	X									08
RMW-VI03	"	GW	"	10/8/15	1428	3	X	X									09
Well-09	"	GW	"	10/8/15	1544	3	X	X									10

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: ASP Category B; Equis EDD

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Nicholas P. Juliano	10/9/15	1600	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Ryan Lake

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
Temp: 3.2 °C Bottles Received: 52
Date: 10/10/15 Time: 900

Condition: (lab use only) OK
COC Seal Intact: ___Y ___N ___NA
pH Checked: NCF:

G529189633201

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Rochester, NY 14614

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sdavis@labellapc.com

Report to: Mr. Dave Engert / Seth Davis

Email To: Jgillen@labellapc.com; dengert@labellapc.com; ~~srife@labellapc.com~~

Project Description: Former Photech Imaging Site

City/State Collected: Rochester, NY

Phone: 585-454-6110
Fax:

Client Project # 2151305

Lab Project #

Collected by (print): Nicholas Inzinna

Site/Facility ID #

P.O. #

Collected by (signature): Nicholas P. Inzinna
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Metals 500mlHDPE-HNO3	V8260TCLC 40mlAmb-HCl	Rem./Contaminant	Sample # (lab only)
RMW-2	Grab	GW	~~10/8/15~~ NA	10/8/15	1703	3	X	X		11
RMW-1	"	GW	NA	10/9/15	0938	3	X	X		12
Well-04	"	GW	"	10/9/15	1102	3	X	X		13
EQ Blank	"	GW	"	10/9/15	1130	3	X	X		14
Purge Water	"	GW	"	10/9/15	1145	3	X	X		15
Trip Blank	NA	GW	NA	NA	NA	1 HCl	X	X		16

Analysis / Container / Preservative

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: ASP Category B, Equis EDD.

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Nicholas P. Inzinna	10/9/15	1600	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
Temp: 3.2 °C Bottles Received: 52
Date: 10/10/15 Time: 900

Chain of Custody Page ___ of ___

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Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 743892
Table #
Acctnum: LABRNY
Template: T106232
Prelogin: P527154
TSR: 364 - T. Alan Harvill
PB: 10-515 PB
Shipped Via: FedEX Ground

Hold #
Condition: (lab use only) GD10
COC Seal Intact: ✓ Y ___N ___NA
pH Checked: NCF:

Matt Shacklock

From: Jason Romer
Sent: Friday, October 09, 2015 2:38 PM
To: Login
Subject: Samples received today for LABRNY - project Phototech

RMW4 is listed on the COC as HOLD. Per client's email below, please analyze this sample.

Thanks,

Jason Romer
Technical Service Representative (TSR)
E-mail: jromer@esclabsciences.com
Phone: 800-767-5859 Ext. 9713
Direct: 615-773-9713
www.esclabsciences.com

ESC
L·A·B S·C·I·E·N·C·E·S

From: Davis, Seth [mailto:sdavis@LaBellaPC.com]
Sent: Friday, October 09, 2015 2:21 PM
To: Jason Romer
Subject: FW: Photech samples

Please see the original email to Alan below.

Thanks,

Seth Davis
LaBella Associates, D.P.C.
Direct: 585-295-6659

From: Davis, Seth
Sent: Friday, October 09, 2015 3:21 PM
To: 'Alan Harvill' (AHarvill@esclabsciences.com)
Cc: Rob Senska (RSenska@esclabsciences.com)
Subject: Photech samples

Alan, today we sent groundwater samples from our Photech site for analysis. RMW4 was indicated to be put on hold on the chain of custody. You can proceed with running that sample.

Let me know if you have questions.

Thanks,

Seth Davis
Environmental Construction Specialist
Direct: 585-295-6659 | sdavis@labellapc.com
LABELLA ASSOCIATES, D.P.C.

Susan Peach

From: Troy Dunlap
Sent: Tuesday, October 13, 2015 7:31 AM
To: Jason Romer; Login
Cc: Reporting
Subject: RE: L793892-15 *LABRNY* remove analysis.

Done.

This E-mail and any attached files are confidential, and may be copyright protected. If you are not the addressee, any dissemination of this communication is strictly prohibited. If you have received this message in error, please contact the sender immediately and delete/destroy all information received.

From: Jason Romer
Sent: Monday, October 12, 2015 4:08 PM
To: Login
Cc: Reporting
Subject: L793892-15 *LABRNY* remove analysis.

Per Seth Davis at LaBella Associates, please cancel analysis of the Purge Water sample (L793892-15).

Reporting – please also scan this email to COC.

Thanks,

Jason Romer
Technical Service Representative (TSR)
E-mail: **jromer@esclabsciences.com**
Phone: 800-767-5859 Ext. 9713
Direct: 615-773-9713
www.esclabsciences.com

Mercury by Method 7470A

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Quality Control Summary
SDG: L793892

Mercury by Method 7470A
LaBella Associates, P.C.

Project: Former Photech Imaging Site
Project No: 2151305

Login No: L793892

Lab SampleID.	Client ID
L793892-01	RMW-5
L793892-02	RMW-6
L793892-03	RMW-8
L793892-04	RMW-9
L793892-05	BLIND DUP
L793892-06	RMW-7
L793892-07	RMW-4
L793892-08	WELL-07
L793892-09	RMW-3
L793892-10	WELL-09
L793892-11	RMW-2
L793892-12	RMW-1
L793892-13	WELL-04
L793892-14	EQ BLANK
L793892-16	TRIP BLANK

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test:	Mercury by Method 7470A		
Project No:	2151305	Matrix:	Water - ug/L
Project:	Former Photech Imaging Site	EPA ID:	TN00003
Collection Date:	10/7/2015	**Analytic Batch:**	**WG821311**
Analysis Date:	10/14/2015 8:49:00 AM	Analyst:	628
Instrument ID:	CVAA5	Prep Date:	10/12/2015

Sample Numbers: L793892-01, -02, -03, -04, -05, -07, -08, -09, -10, -11, -12, -13, -14

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
CVAA5	Blank WG821311	Blank WG821311	101415CVAA5 W(56)	10/14/2015	8:27 AM
CVAA5	LCS WG821311	LCS WG821311	101415CVAA5 W(57)	10/14/2015	8:29 AM
CVAA5	LCSD WG821311	LCSD WG821311	101415CVAA5 W(58)	10/14/2015	8:32 AM
CVAA5	MS WG821311	MS WG821311	101415CVAA5 W(62)	10/14/2015	8:41 AM
CVAA5	MSD WG821311	MSD WG821311	101415CVAA5 W(63)	10/14/2015	8:43 AM
CVAA5	RMW-5	L793892-01	101415CVAA5 W(66)	10/14/2015	8:49 AM
CVAA5	RMW-6	L793892-02	101415CVAA5 W(67)	10/14/2015	8:52 AM
CVAA5	RMW-8	L793892-03	101415CVAA5 W(68)	10/14/2015	8:54 AM
CVAA5	RMW-9	L793892-04	101415CVAA5 W(69)	10/14/2015	8:56 AM
CVAA5	BLIND DUP	L793892-05	101415CVAA5 W(70)	10/14/2015	8:58 AM
CVAA5	RMW-4	L793892-07	101415CVAA5 W(73)	10/14/2015	9:05 AM
CVAA5	WELL-07	L793892-08	101415CVAA5 W(74)	10/14/2015	9:07 AM
CVAA5	RMW-3	L793892-09	101415CVAA5 W(75)	10/14/2015	9:09 AM
CVAA5	WELL-09	L793892-10	101415CVAA5 W(76)	10/14/2015	9:12 AM
CVAA5	RMW-2	L793892-11	101415CVAA5 W(77)	10/14/2015	9:14 AM
CVAA5	RMW-1	L793892-12	101415CVAA5 W(78)	10/14/2015	9:16 AM
CVAA5	WELL-04	L793892-13	101415CVAA5 W(79)	10/14/2015	9:18 AM
CVAA5	EQ BLANK	L793892-14	101415CVAA5 W(80)	10/14/2015	9:20 AM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test:	Mercury by Method 7470A		
Project No:	2151305	Matrix:	Water - ug/L
Project:	Former Photech Imaging Site	EPA ID:	TN00003
Collection Date:	10/7/2015	**Analytic Batch:**	**WG821837**
Analysis Date:	10/15/2015 9:35:00 AM	Analyst:	628
Instrument ID:	CVAA5	Prep Date:	10/14/2015
Sample Numbers:	L793892-06		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
CVAA5	Blank WG821837	Blank WG821837	101515CVAA5 W(62)	10/15/2015	9:28 AM
CVAA5	LCS WG821837	LCS WG821837	101515CVAA5 W(63)	10/15/2015	9:31 AM
CVAA5	LCSD WG821837	LCSD WG821837	101515CVAA5 W(64)	10/15/2015	9:33 AM
CVAA5	RMW-7	L793892-06	101515CVAA5 W(65)	10/15/2015	9:35 AM
CVAA5	MS WG821837	MS WG821837	101515CVAA5 W(66)	10/15/2015	9:37 AM
CVAA5	MSD WG821837	MSD WG821837	101515CVAA5 W(69)	10/15/2015	9:44 AM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Mercury by CVAA
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: CVAA5

Standard Type: ICV
Analysis Date: 10/14/2015 6:46 AM
Analysis Time: 0646
Data File: 101415CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0029	0.003	97 %	90-110

Standard Type: ICVLL
Analysis Date: 10/14/2015 6:50 AM
Analysis Time: 0650
Data File: 101415CVAA5 W

Analyte	Conc.
Mercury	0.0002

Standard Type: CCV
Analysis Date: 10/14/2015 7:14 AM
Analysis Time: 0714
Data File: 101415CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0024	0.0025	94 %	90-110

Standard Type: CCV
Analysis Date: 10/14/2015 7:41 AM
Analysis Time: 0741
Data File: 101415CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0023	0.0025	92 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Mercury by CVAA
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: CVAA5

Standard Type: CCV
Analysis Date: 10/14/2015 8:07 AM
Analysis Time: 0807
Data File: 101415CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0023	0.0025	92 %	90-110

Standard Type: CCV
Analysis Date: 10/14/2015 8:34 AM
Analysis Time: 0834
Data File: 101415CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0023	0.0025	93 %	90-110

Standard Type: CCV
Analysis Date: 10/14/2015 9:01 AM
Analysis Time: 0901
Data File: 101415CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0023	0.0025	93 %	90-110

Standard Type: CCV
Analysis Date: 10/14/2015 9:23 AM
Analysis Time: 0923
Data File: 101415CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0023	0.0025	93 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Mercury by CVAA
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: CVAA5

Standard Type: ICV
Analysis Date: 10/15/2015 7:51 AM
Analysis Time: 0751
Data File: 101515CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0031	0.003	102 %	90-110

Standard Type: ICVLL
Analysis Date: 10/15/2015 7:55 AM
Analysis Time: 0755
Data File: 101515CVAA5 W

Analyte	Conc.
Mercury	0.0002

Standard Type: CCV
Analysis Date: 10/15/2015 8:20 AM
Analysis Time: 0820
Data File: 101515CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0025	0.0025	100 %	90-110

Standard Type: CCV
Analysis Date: 10/15/2015 8:46 AM
Analysis Time: 0846
Data File: 101515CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0025	0.0025	100 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Mercury by CVAA
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: CVAA5

Standard Type: CCV
Analysis Date: 10/15/2015 9:13 AM
Analysis Time: 0913
Data File: 101515CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0025	0.0025	100 %	90-110

Standard Type: CCV
Analysis Date: 10/15/2015 9:40 AM
Analysis Time: 0940
Data File: 101515CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0024	0.0025	97 %	90-110

Standard Type: CCV
Analysis Date: 10/15/2015 10:06 AM
Analysis Time: 1006
Data File: 101515CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0025	0.0025	99 %	90-110

Standard Type: CCV
Analysis Date: 10/15/2015 11:34 AM
Analysis Time: 1134
Data File: 101515CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0025	0.0025	98 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Mercury by CVAA
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: CVAA5

Standard Type: ICB
Analysis Date: 10/14/2015 6:48 AM
Analysis Time: 0648
Data File: 101415CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	0.0002	< 0.0002	101415CVAA5

Standard Type: CCB
Analysis Date: 10/14/2015 7:17 AM
Analysis Time: 0717
Data File: 101415CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	101415CVAA5

Standard Type: CCB
Analysis Date: 10/14/2015 7:43 AM
Analysis Time: 0743
Data File: 101415CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	101415CVAA5

Standard Type: CCB
Analysis Date: 10/14/2015 8:10 AM
Analysis Time: 0810
Data File: 101415CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	101415CVAA5

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Mercury by CVAA
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: CVAA5

Standard Type: CCB
Analysis Date: 10/14/2015 8:36 AM
Analysis Time: 0836
Data File: 101415CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	101415CVAA5

Standard Type: CCB
Analysis Date: 10/14/2015 9:03 AM
Analysis Time: 0903
Data File: 101415CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	101415CVAA5

Standard Type: CCB
Analysis Date: 10/14/2015 9:25 AM
Analysis Time: 0925
Data File: 101415CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	101415CVAA5

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Mercury by CVAA
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: CVAA5

Standard Type: ICB
Analysis Date: 10/15/2015 7:53 AM
Analysis Time: 0753
Data File: 101515CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	0.0002	< 0.0002	101515CVAA5

Standard Type: CCB
Analysis Date: 10/15/2015 8:22 AM
Analysis Time: 0822
Data File: 101515CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	101515CVAA5

Standard Type: CCB
Analysis Date: 10/15/2015 8:48 AM
Analysis Time: 0848
Data File: 101515CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	101515CVAA5

Standard Type: CCB
Analysis Date: 10/15/2015 9:15 AM
Analysis Time: 0915
Data File: 101515CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	101515CVAA5

*** - calibrated by linear regression*

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Tax I.D 62-0814289
Est. 1970

Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Mercury by CVAA
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: CVAA5

Standard Type: CCB
Analysis Date: 10/15/2015 9:42 AM
Analysis Time: 0942
Data File: 101515CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	101515CVAA5

Standard Type: CCB
Analysis Date: 10/15/2015 10:08 AM
Analysis Time: 1008
Data File: 101515CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	101515CVAA5

Standard Type: CCB
Analysis Date: 10/15/2015 11:36 AM
Analysis Time: 1136
Data File: 101515CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	101515CVAA5

*** - calibrated by linear regression*

Raw Data

Type	Sample ID	Extended II	Mean	SD	RSD	Stat Units	Wt.	Vol.	
S	CALBLK		-16	2	-11.5446	Intensity		1	1
S	Std 0.2	15F02631	0	0	-1.#IND00	Intensity		1	1
S	CALBLK		84	2	2.957832	Intensity		1	1
S	Std 0.2	15F02631	1288	8	0.634817	Intensity		1	1
S	Std 0.4	15F02632	2726	20	0.733969	Intensity		1	1
S	Std 1.0	15F02633	6576	70	1.057765	Intensity		1	1
S	Std 2.0	15F02634	12953	58	0.445017	Intensity		1	1
S	Std 5.0	15F02635	34057	168	0.492798	Intensity		1	1
S	Std 10.0	15F02636	65561	404	0.616692	Intensity		1	1
C	ICV 15F02628		96.5% 2.89	0.028811	0.995071	Concen		1	1
C	ICB		-0.05833	0.000072	-0.1226	Concen		1	1
C	ICVLL 15F02631		81.7% 0.16	0.000825	0.504549	Concen		1	1
U	BLANK WG821313		-0.01727	0.000124	-0.71726	Concen		1	1
U	LCS WG821313		2.941393	0.015933	0.541686	Concen		1	1
U	LCSD WG821313		2.860078	0.012815	0.448048	Concen		1	1
U	L793662-03 WG82131		-0.05393	0.000312	-0.578	Concen		1	1
U	MS L793662-03 WG82		3.027513	0.023708	0.783072	Concen		1	1
U	MSD L793662-03 WG8		3.000863	0.019903	0.663243	Concen		1	1
U	L793319-01 WG82131		-0.05191	0.000435	-0.83802	Concen		1	1
U	L793319-02 WG82131		-0.01388	0.000143	-1.03037	Concen		1	1
U	L793319-03 WG82131		-0.01363	0.000248	-1.81776	Concen		1	1
U	L793662-01 WG82131		-0.01373	0.000286	-2.08351	Concen		1	1
C	CCV 15F02637		94.0% 2.35	0.016016	0.681386	Concen		1	1
C	CCB		-0.04529	0.000378	-0.83565	Concen		1	1
U	L793792-19 WG82131		-0.00802	0.000619	-7.7268	Concen		1	1
U	L793792-20 WG82131		-0.01216	0.000378	-3.11149	Concen		1	1
U	L793792-21 WG82131		-0.01676	0.000378	-2.25737	Concen		1	1
U	L793852-08 WG82131		-0.00594	0.000469	-7.89204	Concen		1	1
U	L793852-09 WG82131		-0.01484	0.000372	-2.50369	Concen		1	1
U	L793852-10 WG82131		-0.00301	0.000372	-12.3491	Concen		1	1
U	L793852-11 WG82131		-0.00736	0.000806	-10.9531	Concen		1	1
U	BLANK WG821314		-0.01535	0.000143	-0.93192	Concen		1	1
U	LCS WG821314		2.957323	0.02876	0.972507	Concen		1	1
U	LCSD WG821314		2.857145	0.011099	0.388474	Concen		1	1
C	CCV 15F02637		92.1% 2.30	0.014183	0.615758	Concen		1	1
C	CCB		-0.04139	0.000328	-0.79178	Concen		1	1
U	L793822-01 WG82131		-0.00979	0.000143	-1.46167	Concen		1	1
U	MS L793822-01 WG82		2.74751	0.028367	1.03248	Concen		1	1
U	MSD L793822-01 WG8		2.822404	0.018279	0.647625	Concen		1	1
U	L793580-09 WG82131		-0.04255	0.000312	-0.73255	Concen		1	1
U	L793580-11 WG82131		0.020303	0.000072	0.352238	Concen		1	1
U	L793580-16 WG82131		-0.01889	0.000072	-0.37863	Concen		1	1
U	L793580-34 WG82131		-0.02106	0.000124	-0.5881	Concen		1	1
U	L793580-55 WG82131		-0.00655	0.000258	-3.93728	Concen		1	1
U	L793822-02 WG82131		-0.007	0.000435	-6.2108	Concen		1	1
U	L793822-03 WG82131		-0.00508	0.000072	-1.40709	Concen		1	1

C	CCV 15F02637	92.2% 2.30	0.012682	0.550385	Concen	1	1
C	CCB	-0.04124	0.000568	-1.37644	Concen	1	1
U	L793822-04 WG82131	-0.01707	0.000378	-2.21724	Concen	1	1
U	L793822-05 WG82131	-0.01317	0.000328	-2.48775	Concen	1	1
U	L793822-06 WG82131	-0.01494	0.000398	-2.66459	Concen	1	1
U	L793822-07 WG82131	-0.01161	0.000189	-1.63031	Concen	1	1
U	L793822-08 WG82131	-0.01631	0.000189	-1.16018	Concen	1	1
U	L793822-09 WG82131	-0.0106	0.000495	-4.6767	Concen	1	1
U	L793822-10 WG82131	0.015095	0.000469	3.106802	Concen	1	1
U	BLANK WG821311	-0.01661	0.000682	-4.10669	Concen	1	1
U	LCS WG821311	2.81851	0.005987	0.212428	Concen	1	1
U	LCSD WG821311	2.663515	0.026061	0.978442	Concen	1	1
C	CCV 15F02637	93.2% 2.33	0.012713	0.545334	Concen	1	1
C	CCB	-0.04655	0.000215	-0.4609	Concen	1	1
U	L793873-11 WG82131	0.025866	0.000378	1.463031	Concen	1	1
U	MS L793873-11 WG82	2.828118	0.021881	0.773701	Concen	1	1
U	MSD L793873-11 WG8	2.805918	0.021441	0.764146	Concen	1	1
U	L793873-12 WG82131	-0.04736	0.000747	-1.57659	Concen	1	1
U	L793873-13 WG82131	-0.01752	0.000143	-0.81627	Concen	1	1
U	L793892-01 WG82131	-0.0112	0.000372	-3.3175	Concen	1	1
U	L793892-02 WG82131	-0.01196	0.000124	-1.0357	Concen	1	1
U	L793892-03 WG82131	-0.00812	0.000747	-9.19892	Concen	1	1
U	L793892-04 WG82131	-0.01196	0.000568	-4.74617	Concen	1	1
U	L793892-05 WG82131	-0.0113	0.000143	-1.26548	Concen	1	1
C	CCV 15F02637	93.1% 2.32	0.02363	1.015558	Concen	1	1
C	CCB	-0.03912	0.000812	-2.07657	Concen	1	1
U	L793892-07 WG82131	-0.01469	0.000328	-2.23085	Concen	1	1
U	L793892-08 WG82131	-0.00554	0.000189	-3.41685	Concen	1	1
U	L793892-09 WG82131	-0.01307	0.000072	-0.54707	Concen	1	1
U	L793892-10 WG82131	-0.01454	0.000248	-1.70396	Concen	1	1
U	L793892-11 WG82131	-0.01201	0.000143	-1.19089	Concen	1	1
U	L793892-12 WG82131	-0.0106	0.000328	-3.09334	Concen	1	1
U	L793892-13 WG82131	-0.01398	0.000072	-0.51146	Concen	1	1
U	L793892-14 WG82131	-0.01449	0.000636	-4.38727	Concen	1	1
C	CCV 15F02637	93.3% 2.33	0.017865	0.765533	Concen	1	1
C	CCB	-0.03902	0.000611	-1.56616	Concen	1	1
C	InstBlk	-0.01054	0.000258	-2.4455	Concen	1	1

Type	Seq	ID	A	B	C	Rho	Stnd Conc	Curve Type	Chapter
Std		29165	-	-	-	-	0	-	101415CVA
Std		29166	-	-	-	-	0.2	-	101415CVA
Std		29167	-	-	-	-	0	-	101415CVA
Std		29168	-	-	-	-	0.2	-	101415CVA
Std		29169	-	-	-	-	0.4	-	101415CVA
Std		29170	-	-	-	-	1	-	101415CVA
Std		29171	-	-	-	-	2	-	101415CVA
Std		29172	-	-	-	-	5	-	101415CVA
Std		29173	-	-	-	-	10	-	101415CVA
CK STND		29174	-	-	-	-	-	Linear	101415CVA
CK STND		29175	-	-	-	-	-	Linear	101415CVA
CK STND		29176	-	-	-	-	-	Linear	101415CVA
SMPL		29177	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29178	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29179	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29180	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29181	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29182	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29183	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29184	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29185	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29186	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
CK STND		29187	-	-	-	-	-	Linear	101415CVA
CK STND		29188	-	-	-	-	-	Linear	101415CVA
SMPL		29189	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29190	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29191	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29192	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29193	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29194	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29195	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29196	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29197	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29198	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
CK STND		29199	-	-	-	-	-	Linear	101415CVA
CK STND		29200	-	-	-	-	-	Linear	101415CVA
SMPL		29201	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29202	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29203	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29204	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29205	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29206	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29207	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29208	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29209	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA
SMPL		29210	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	-	Linear	101415CVA

CK STND	29211	-	-	-	-	Linear	101415CV/
CK STND	29212	-	-	-	-	Linear	101415CV/
SMPL	29213	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29214	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29215	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29216	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29217	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29218	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29219	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29220	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29221	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29222	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
CK STND	29223	-	-	-	-	Linear	101415CV/
CK STND	29224	-	-	-	-	Linear	101415CV/
SMPL	29225	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29226	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29227	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29228	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29229	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29230	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29231	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29232	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29233	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29234	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
CK STND	29235	-	-	-	-	Linear	101415CV/
CK STND	29236	-	-	-	-	Linear	101415CV/
SMPL	29237	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29238	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29239	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29240	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29241	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29242	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29243	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
SMPL	29244	0.00E+00	1.52E-04	-1.39E-02	1.00E+00	Linear	101415CV/
CK STND	29245	-	-	-	-	Linear	101415CV/
CK STND	29246	-	-	-	-	Linear	101415CV/
CK STND	29247	-	-	-	-	Linear	101415CV/

Method	Units	UI	US	DL	Blank Sub	Date	Stats Data
Water Tree	ppb		0	1 -	-16.3333	10/14/2015 6:23	-15
Water Tree	ppb		0	1 -	0	10/14/2015 6:25	0
Water Tree	ppb		0	1 -	84.33333	10/14/2015 6:30	81
Water Tree	ppb		0	1 -	1288.333	10/14/2015 6:32	1278
Water Tree	ppb		0	1 -	2725.667	10/14/2015 6:35	2701
Water Tree	ppb		0	1 -	6576.333	10/14/2015 6:37	6488
Water Tree	ppb		0	1 -	12953.33	10/14/2015 6:39	12885
Water Tree	ppb		0	1 -	34057.33	10/14/2015 6:41	33826
Water Tree	ppb		0	1 -	65561.33	10/14/2015 6:43	65074
Water Tree	ppb		0	1 -	2.895325	10/14/2015 6:46	2.857903
Water Tree	ppb		0	1 -	-0.05833	10/14/2015 6:48	-0.05838
Water Tree	ppb		0	1 -	0.163465	10/14/2015 6:50	0.162353
Water Tree	ppb		0	1 0.000372	-0.01727	10/14/2015 6:52	-0.01712
Water Tree	ppb		0	1 0.047799	2.941393	10/14/2015 6:55	2.920862
Water Tree	ppb		0	1 0.038444	2.860078	10/14/2015 6:57	2.842429
Water Tree	ppb		0	1 0.000935	-0.05393	10/14/2015 6:59	-0.05353
Water Tree	ppb		0	1 0.071123	3.027513	10/14/2015 7:01	2.996413
Water Tree	ppb		0	1 0.059709	3.000863	10/14/2015 7:03	2.973353
Water Tree	ppb		0	1 0.001305	-0.05191	10/14/2015 7:06	-0.0514
Water Tree	ppb		0	1 0.000429	-0.01388	10/14/2015 7:08	-0.01408
Water Tree	ppb		0	1 0.000743	-0.01363	10/14/2015 7:10	-0.01363
Water Tree	ppb		0	1 0.000858	-0.01373	10/14/2015 7:12	-0.01393
Water Tree	ppb		0	1 -	2.35044	10/14/2015 7:14	2.329049
Water Tree	ppb		0	1 -	-0.04529	10/14/2015 7:17	-0.04488
Water Tree	ppb		0	1 0.001858	-0.00802	10/14/2015 7:19	-0.00877
Water Tree	ppb		0	1 0.001135	-0.01216	10/14/2015 7:21	-0.01166
Water Tree	ppb		0	1 0.001135	-0.01676	10/14/2015 7:23	-0.01727
Water Tree	ppb		0	1 0.001407	-0.00594	10/14/2015 7:26	-0.0062
Water Tree	ppb		0	1 0.001115	-0.01484	10/14/2015 7:28	-0.01439
Water Tree	ppb		0	1 0.001115	-0.00301	10/14/2015 7:30	-0.00346
Water Tree	ppb		0	1 0.002418	-0.00736	10/14/2015 7:32	-0.00635
Water Tree	ppb		0	1 0.000429	-0.01535	10/14/2015 7:34	-0.01545
Water Tree	ppb		0	1 0.08628	2.957323	10/14/2015 7:36	2.919649
Water Tree	ppb		0	1 0.033298	2.857145	10/14/2015 7:39	2.843946
Water Tree	ppb		0	1 -	2.30341	10/14/2015 7:41	2.286115
Water Tree	ppb		0	1 -	-0.04139	10/14/2015 7:43	-0.04124
Water Tree	ppb		0	1 0.000429	-0.00979	10/14/2015 7:45	-0.00999
Water Tree	ppb		0	1 0.085102	2.74751	10/14/2015 7:48	2.711505
Water Tree	ppb		0	1 0.054836	2.822404	10/14/2015 7:50	2.799647
Water Tree	ppb		0	1 0.000935	-0.04255	10/14/2015 7:52	-0.04291
Water Tree	ppb		0	1 0.000215	0.020303	10/14/2015 7:54	0.020354
Water Tree	ppb		0	1 0.000215	-0.01889	10/14/2015 7:57	-0.01894
Water Tree	ppb		0	1 0.000372	-0.02106	10/14/2015 7:59	-0.02106
Water Tree	ppb		0	1 0.000774	-0.00655	10/14/2015 8:01	-0.0062
Water Tree	ppb		0	1 0.001305	-0.007	10/14/2015 8:03	-0.0065
Water Tree	ppb		0	1 0.000215	-0.00508	10/14/2015 8:05	-0.00498

Water Tree	ppb	0	1	-	2.304118	10/14/2015 8:07	2.287026
Water Tree	ppb	0	1	-	-0.04124	10/14/2015 8:10	-0.04063
Water Tree	ppb	0	1	0.001135	-0.01707	10/14/2015 8:12	-0.01757
Water Tree	ppb	0	1	0.000983	-0.01317	10/14/2015 8:14	-0.01287
Water Tree	ppb	0	1	0.001195	-0.01494	10/14/2015 8:16	-0.01439
Water Tree	ppb	0	1	0.000568	-0.01161	10/14/2015 8:18	-0.01181
Water Tree	ppb	0	1	0.000568	-0.01631	10/14/2015 8:21	-0.01606
Water Tree	ppb	0	1	0.001486	-0.0106	10/14/2015 8:23	-0.0112
Water Tree	ppb	0	1	0.001407	0.015095	10/14/2015 8:25	0.014437
Water Tree	ppb	0	1	0.002047	-0.01661	10/14/2015 8:27	-0.01757
Water Tree	ppb	0	1	0.017962	2.81851	10/14/2015 8:29	2.816942
Water Tree	ppb	0	1	0.078183	2.663515	10/14/2015 8:32	2.630038
Water Tree	ppb	0	1	-	2.331223	10/14/2015 8:34	2.31403
Water Tree	ppb	0	1	-	-0.04655	10/14/2015 8:36	-0.04685
Water Tree	ppb	0	1	0.001135	0.025866	10/14/2015 8:38	0.02536
Water Tree	ppb	0	1	0.065644	2.828118	10/14/2015 8:41	2.798889
Water Tree	ppb	0	1	0.064324	2.805918	10/14/2015 8:43	2.779167
Water Tree	ppb	0	1	0.00224	-0.04736	10/14/2015 8:45	-0.0464
Water Tree	ppb	0	1	0.000429	-0.01752	10/14/2015 8:47	-0.01742
Water Tree	ppb	0	1	0.001115	-0.0112	10/14/2015 8:49	-0.0112
Water Tree	ppb	0	1	0.000372	-0.01196	10/14/2015 8:52	-0.01181
Water Tree	ppb	0	1	0.00224	-0.00812	10/14/2015 8:54	-0.00908
Water Tree	ppb	0	1	0.001703	-0.01196	10/14/2015 8:56	-0.0112
Water Tree	ppb	0	1	0.000429	-0.0113	10/14/2015 8:58	-0.0112
Water Tree	ppb	0	1	-	2.326824	10/14/2015 9:01	2.297038
Water Tree	ppb	0	1	-	-0.03912	10/14/2015 9:03	-0.03821
Water Tree	ppb	0	1	0.000983	-0.01469	10/14/2015 9:05	-0.01424
Water Tree	ppb	0	1	0.000568	-0.00554	10/14/2015 9:07	-0.00529
Water Tree	ppb	0	1	0.000215	-0.01307	10/14/2015 9:09	-0.01302
Water Tree	ppb	0	1	0.000743	-0.01454	10/14/2015 9:12	-0.01424
Water Tree	ppb	0	1	0.000429	-0.01201	10/14/2015 9:14	-0.01211
Water Tree	ppb	0	1	0.000983	-0.0106	10/14/2015 9:16	-0.01014
Water Tree	ppb	0	1	0.000215	-0.01398	10/14/2015 9:18	-0.01393
Water Tree	ppb	0	1	0.001907	-0.01449	10/14/2015 9:20	-0.01515
Water Tree	ppb	0	1	-	2.333701	10/14/2015 9:23	2.311147
Water Tree	ppb	0	1	-	-0.03902	10/14/2015 9:25	-0.03987
Water Tree	ppb	0	1	-	-0.01054	10/14/2015 9:27	-0.0109

-15	-19
87	85
1289	1298
2726	2750
6583	6658
12949	13026
34127	34219
65546	66064
2.900078	2.927992
-0.05823	-0.05838
0.163718	0.164325
-0.01742	-0.01727
2.943618	2.9597
2.865337	2.872467
-0.05398	-0.05429
3.032216	3.05391
3.00946	3.019776
-0.05186	-0.05247
-0.01378	-0.01378
-0.01333	-0.01393
-0.01333	-0.01393
2.354687	2.367583
-0.04579	-0.04518
-0.00802	-0.00726
-0.01257	-0.01226
-0.01666	-0.01636
-0.00635	-0.00529
-0.01484	-0.0153
-0.00301	-0.00255
-0.00741	-0.00832
-0.01515	-0.01545
2.962885	2.989434
2.856386	2.871102
2.303258	2.320856
-0.04109	-0.04185
-0.00968	-0.00968
2.750191	2.780836
2.823162	2.844401
-0.04261	-0.04215
0.020202	0.020354
-0.01879	-0.01894
-0.02121	-0.02091
-0.0068	-0.00665
-0.00695	-0.00756
-0.00513	-0.00513

2.307961	2.317367
-0.04109	-0.042
-0.01697	-0.01666
-0.01302	-0.01363
-0.01515	-0.0153
-0.01166	-0.01135
-0.01636	-0.01651
-0.0106	-0.00999
0.015348	0.015499
-0.01621	-0.01606
2.812087	2.8265
2.666903	2.693603
2.335269	2.344371
-0.0464	-0.0464
0.025967	0.02627
2.833933	2.851532
2.806929	2.831658
-0.04746	-0.04822
-0.01773	-0.01742
-0.01166	-0.01075
-0.01211	-0.01196
-0.00802	-0.00726
-0.01211	-0.01257
-0.0112	-0.01151
2.328594	2.354839
-0.03896	-0.04018
-0.01499	-0.01484
-0.00559	-0.00574
-0.01302	-0.01317
-0.01454	-0.01484
-0.01211	-0.01181
-0.01075	-0.0109
-0.01408	-0.01393
-0.01469	-0.01363
2.335117	2.354839
-0.03866	-0.03851
-0.01029	

Type	Sample ID	Extended II	Mean	SD	RSD	Stat Units	Wt.	Vol.	Type
S	CALBLK		37	2	6.803013	Intensity	1	1	Std
S	Std 0.2	15F02631	1182	14	1.148619	Intensity	1	1	Std
S	Std 0.4	15F02632	2366	24	1.019394	Intensity	1	1	Std
S	Std 1.0	15F02633	5776	64	1.102794	Intensity	1	1	Std
S	Std 2.0	15F02634	5097	51	0.993942	Intensity	1	1	Std
S	Std 5.0	15F02635	29179	188	0.645659	Intensity	1	1	Std
S	Std 10.0	15F02636	59004	474	0.80371	Intensity	1	1	Std
C	ICV	15F02628	(L)93.7% 2.	0.020852	0.741768	Concen	1	1	CK STND
S	CALBLK		49	2	5.125558	Intensity	1	1	Std
S	Std 0.2	15F02631	1130	14	1.228703	Intensity	1	1	Std
S	Std 0.4	15F02632	2376	15	0.641979	Intensity	1	1	Std
S	Std 1.0	15F02633	5679	72	1.275388	Intensity	1	1	Std
S	Std 2.0	15F02634	11648	78	0.673046	Intensity	1	1	Std
S	Std 5.0	15F02635	28728	198	0.690926	Intensity	1	1	Std
S	Std 10.0	15F02636	57825	316	0.547278	Intensity	1	1	Std
C	ICV	15F02628	(L)86.6% 2.	0.040713	1.566406	Concen	1	1	CK STND
C	ICV	15F02628	101.7% 3.0	0.00871	0.285556	Concen	1	1	CK STND
C	ICB		-0.0354	0.000432	-1.22009	Concen	1	1	CK STND
C	ICVLL	15F02631	91.7% 0.18	0.000962	0.52487	Concen	1	1	CK STND
U	BLANK	WG821914	-0.00221	0.000283	-12.7779	Concen	1	1	SMPL
U	LCS	WG821914	2.956031	0.019125	0.646984	Concen	1	1	SMPL
U	LCSD	WG821914	2.403647	0.015147	0.630171	Concen	1	1	SMPL
U	L794127-01	WG82191	-0.01075	0.000356	-3.30816	Concen	1	1	SMPL
U	MS L794127-01	WG82	3.130425	0.023341	0.745617	Concen	1	1	SMPL
U	MSD L794127-01	WG8	2.944778	0.037864	1.2858	Concen	1	1	SMPL
U	L794140-01	WG82191	-0.05779	0.000424	-0.73386	Concen	1	1	SMPL
U	L794140-02	WG82191	-0.00596	0.000216	-3.62074	Concen	1	1	SMPL
U	L794166-01	WG82191	0.008867	0.000141	1.594093	Concen	1	1	SMPL
U	L794176-01	WG82191	0.006097	0.000245	4.015355	Concen	1	1	SMPL
C	CCV	15F02637	100.4% 2.5	0.025942	1.033652	Concen	1	1	CK STND
C	CCB		-0.03655	0.000356	-0.97332	Concen	1	1	CK STND
U	L794201-01	WG82191	-0.00406	0.000216	-5.31942	Concen	1	1	SMPL
U	L794219-01	WG82191	0.001192	0.000454	38.11158	Concen	1	1	SMPL
U	BLANK	WG821918	-0.01814	0.000245	-1.3497	Concen	1	1	SMPL
U	LCS	WG821918	2.872411	0.038873	1.35333	Concen	1	1	SMPL
U	LCSD	WG821918	3.005314	0.038746	1.289257	Concen	1	1	SMPL
U	L793324-07	WG82191	-0.04896	0	0	Concen	1	1	SMPL
U	MS L793324-07	WG82	2.742972	0.01492	0.543928	Concen	1	1	SMPL
U	MSD L793324-07	WG8	1.194831	0.015209	1.272896	Concen	1	1	SMPL
U	L793324-02	WG82191	-0.03499	0.000535	-1.52944	Concen	1	1	SMPL
U	L793655-01	WG82191	-0.00135	0.000424	-31.485	Concen	1	1	SMPL
C	CCV	15F02637	99.7% 2.49	0.035208	1.412807	Concen	1	1	CK STND
C	CCB		-0.03736	0.000245	-0.6554	Concen	1	1	CK STND
U	L793660-02	WG82191	0.003443	0.000216	6.271592	Concen	1	1	SMPL
U	L793725-01	WG82191	0.001885	0.000082	4.330055	Concen	1	1	SMPL
U	L793725-02	WG82191	0.000269	0.000216	80.28605	Concen	1	1	SMPL

U	L793725-03 WG82191	0.002866	0.000216	7.534488	Concen	1	1	SMPL
U	L793866-02 WG82191	0.010426	0.000424	4.067559	Concen	1	1	SMPL
U	L793869-01 WG82191	0.006848	0.000082	1.191816	Concen	1	1	SMPL
U	L793904-01 WG82191	0.006328	0.000082	1.28963	Concen	1	1	SMPL
U	L793917-02 WG82191	0.002577	0.000294	11.41732	Concen	1	1	SMPL
U	LCS WG821914	2.507579	0.019791	0.789261	Concen	1	1	SMPL
U	L793926-04 WG82191	-0.02662	0.000648	-2.43313	Concen	1	1	SMPL
C	CCV 15F02637	99.8% 2.49	0.028059	1.12434	Concen	1	1	CK STND
C	CCB	-0.03228	0.000589	-1.82323	Concen	1	1	CK STND
U	L793935-01 WG82191	0.000038	0	0	Concen	1	1	SMPL
U	L793935-01 WG82191	-0.00377	0.000141	-3.74886	Concen	1	1	SMPL
U	L793966-01 WG82191	0.001539	0.000082	5.304546	Concen	1	1	SMPL
U	L793972-03 WG82191	-0.00666	0.000163	-2.45226	Concen	1	1	SMPL
U	L793980-01 WG82191	-7.7E-05	0.000432	-558.626	Concen	1	1	SMPL
U	L794015-01 WG82191	0.00881	0.000408	4.631894	Concen	1	1	SMPL
U	BLANK WG821837	0.000096	0.000496	518.0851	Concen	1	1	SMPL
U	LCS WG821837	3.020202	0.024406	0.808102	Concen	1	1	SMPL
U	LCSD WG821837	2.427307	0.017209	0.708978	Concen	1	1	SMPL
U	L793892-06 WG82183	-0.04422	0.000082	-0.18454	Concen	1	1	SMPL
U	MS L793892-06 WG82	2.927754	0.020166	0.688801	Concen	1	1	SMPL
C	CCV 15F02637	96.8% 2.41	0.020766	0.858393	Concen	1	1	CK STND
C	CCB	-0.02893	0.000711	-2.45918	Concen	1	1	CK STND
U	MSD L793892-06 WG8	2.603375	0.036261	1.392829	Concen	1	1	SMPL
U	L794016-01 WG82183	0.259264	0.004367	1.68431	Concen	1	1	SMPL
U	L794100-01 WG82183	-0.01375	0.000637	-4.6343	Concen	1	1	SMPL
U	L794100-02 WG82183	-0.00695	0.000535	-7.70621	Concen	1	1	SMPL
U	L794100-03 WG82183	0.024276	0.000283	1.164592	Concen	1	1	SMPL
U	L794100-04 WG82183	0.006271	0.000141	2.254262	Concen	1	1	SMPL
U	L794100-05 WG82183	0.075174	0.000707	0.940187	Concen	1	1	SMPL
U	L794100-06 WG82183	0.004712	0.000245	5.195468	Concen	1	1	SMPL
U	L794100-07 WG82183	0.010599	0.000141	1.333706	Concen	1	1	SMPL
U	L794138-01 WG82183	-0.00117	0.000283	-24.0859	Concen	1	1	SMPL
C	CCV 15F02637	99.0% 2.47	0.019676	0.795087	Concen	1	1	CK STND
C	CCB	-0.02374	0.000535	-2.25449	Concen	1	1	CK STND
U	L794138-02 WG82183	0.002924	0.000637	21.80275	Concen	1	1	SMPL
U	L794142-01 WG82183	-0.0021	0.000082	-3.89166	Concen	1	1	SMPL
U	L794142-02 WG82183	0.002866	0.000589	20.53555	Concen	1	1	SMPL
U	BLANK WG821838	0.00604	0.000408	6.756201	Concen	1	1	SMPL
U	LCS WG821838	2.558882	0.018407	0.719332	Concen	1	1	SMPL
U	LCSD WG821838	2.333531	0.021453	0.919326	Concen	1	1	SMPL
U	L793999-01 WG82183	-0.03465	0.000779	-2.24718	Concen	1	1	SMPL
U	MS L793999-01 WG82	2.956088	0.022287	0.753933	Concen	1	1	SMPL
U	MSD L793999-01 WG8	2.988174	0.032859	1.099638	Concen	1	1	SMPL
U	L794100-03 WG82183	-0.03395	0.000668	-1.96754	Concen	1	1	SMPL
C	CCV 15F02637	97.9% 2.44	0.020888	0.853354	Concen	1	1	CK STND
C	CCB	-0.03032	0.000216	-0.71224	Concen	1	1	CK STND
C	CCV 15F02637	(L)86.7% 2.	0.065097	3.004688	Concen	1	1	CK STND

C	CCV 15F02637	98.1% 2.45	0.022862	0.931839	Concen	1	1	CK STND
C	CCB	-0.01231	0.000082	-0.66289	Concen	1	1	CK STND
C	InstBlk	-0.00354	0.001143	-32.2777	Concen	1	1	CK STND

Seq ID	A	B	C	Rho	Stnd Conc	Curve Type	Chapter	Method	Units
29413	-	-	-	-	0	-	101515CV/	Water Tree	ppb
29414	-	-	-	-	0.2	-	101515CV/	Water Tree	ppb
29415	-	-	-	-	0.4	-	101515CV/	Water Tree	ppb
29416	-	-	-	-	1	-	101515CV/	Water Tree	ppb
29417	-	-	-	-	2	-	101515CV/	Water Tree	ppb
29418	-	-	-	-	5	-	101515CV/	Water Tree	ppb
29419	-	-	-	-	10	-	101515CV/	Water Tree	ppb
29420	-	-	-	-	-	Linear	101515CV/	Water Tree	ppb
29421	-	-	-	-	0	-	101515CV/	Water Tree	ppb
29422	-	-	-	-	0.2	-	101515CV/	Water Tree	ppb
29423	-	-	-	-	0.4	-	101515CV/	Water Tree	ppb
29424	-	-	-	-	1	-	101515CV/	Water Tree	ppb
29425	-	-	-	-	2	-	101515CV/	Water Tree	ppb
29426	-	-	-	-	5	-	101515CV/	Water Tree	ppb
29427	-	-	-	-	10	-	101515CV/	Water Tree	ppb
29428	-	-	-	-	-	Linear	101515CV/	Water Tree	ppb
29429	-	-	-	-	-	Linear	101515CV/	Water Tree	ppb
29430	-	-	-	-	-	Linear	101515CV/	Water Tree	ppb
29431	-	-	-	-	-	Linear	101515CV/	Water Tree	ppb
29432	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29433	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29434	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29435	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29436	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29437	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29438	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29439	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29440	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29441	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29442	-	-	-	-	-	Linear	101515CV/	Water Tree	ppb
29443	-	-	-	-	-	Linear	101515CV/	Water Tree	ppb
29444	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29445	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29446	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29447	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29448	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29449	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29450	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29451	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29452	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29453	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29454	-	-	-	-	-	Linear	101515CV/	Water Tree	ppb
29455	-	-	-	-	-	Linear	101515CV/	Water Tree	ppb
29456	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29457	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29458	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb

29459	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29460	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29461	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29462	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29463	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29464	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29465	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29466	-	-	-	-	-	Linear	101515CV/	Water Tree	ppb
29467	-	-	-	-	-	Linear	101515CV/	Water Tree	ppb
29468	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29469	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29470	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29471	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29472	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29473	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29474	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29475	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29476	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29477	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29478	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29479	-	-	-	-	-	Linear	101515CV/	Water Tree	ppb
29480	-	-	-	-	-	Linear	101515CV/	Water Tree	ppb
29481	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29482	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29483	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29484	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29485	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29486	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29487	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29488	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29489	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29490	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29491	-	-	-	-	-	Linear	101515CV/	Water Tree	ppb
29492	-	-	-	-	-	Linear	101515CV/	Water Tree	ppb
29493	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29494	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29495	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29496	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29497	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29498	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29499	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29500	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29501	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29502	0.00E+00	1.73E-04	3.81E-05	1.00E+00	-	Linear	101515CV/	Water Tree	ppb
29503	-	-	-	-	-	Linear	101515CV/	Water Tree	ppb
29504	-	-	-	-	-	Linear	101515CV/	Water Tree	ppb
29505	-	-	-	-	-	Linear	101515CV/	Water Tree	ppb

29506	-	-	-	-	-	Linear	101515CV/	Water Tree	ppb
29507	-	-	-	-	-	Linear	101515CV/	Water Tree	ppb
29508	-	-	-	-	-	Linear	101515CV/	Water Tree	ppb

UI	US	DL	Blank Sub	Date	Stats Data		
0	1	-	36.66667	10/15/2015 6:58	36	34	40
0	1	-	1181.667	10/15/2015 7:00	1164	1184	1197
0	1	-	2365.667	10/15/2015 7:02	2337	2364	2396
0	1	-	5775.667	10/15/2015 7:04	5697	5777	5853
0	1	-	5096.667	10/15/2015 7:07	5036	5094	5160
0	1	-	29179.33	10/15/2015 7:09	28960	29158	29420
0	1	-	59004.33	10/15/2015 7:11	58413	59026	59574
0	1	-	2.811076	10/15/2015 7:13	2.783801	2.815004	2.834422
0	1	-	48.66667	10/15/2015 7:28	46	48	52
0	1	-	1130.333	10/15/2015 7:30	1113	1131	1147
0	1	-	2376	10/15/2015 7:32	2359	2373	2396
0	1	-	5679	10/15/2015 7:34	5582	5699	5756
0	1	-	11648	10/15/2015 7:36	11551	11650	11743
0	1	-	28728	10/15/2015 7:39	28489	28720	28975
0	1	-	57825.33	10/15/2015 7:41	57426	57850	58200
0	1	-	2.599105	10/15/2015 7:43	2.548956	2.599682	2.648676
0	1	-	3.050037	10/15/2015 7:51	3.039765	3.049287	3.06106
0	1	-	-0.0354	10/15/2015 7:53	-0.03528	-0.03493	-0.03597
0	1	-	0.18332	10/15/2015 7:55	0.181992	0.183724	0.184243
0	1	0.000848	-0.00221	10/15/2015 7:57	-0.00187	-0.00221	-0.00256
0	1	0.057375	2.956031	10/15/2015 8:00	2.930524	2.960994	2.976575
0	1	0.045441	2.403647	10/15/2015 8:02	2.382583	2.410803	2.417554
0	1	0.001067	-0.01075	10/15/2015 8:04	-0.0107	-0.01122	-0.01035
0	1	0.070023	3.130425	10/15/2015 8:06	3.101225	3.131695	3.158356
0	1	0.113592	2.944778	10/15/2015 8:08	2.894167	2.954934	2.985231
0	1	0.001272	-0.05779	10/15/2015 8:11	-0.05727	-0.05779	-0.05831
0	1	0.000648	-0.00596	10/15/2015 8:13	-0.00602	-0.00568	-0.00619
0	1	0.000424	0.008867	10/15/2015 8:15	0.008694	0.009041	0.008867
0	1	0.000735	0.006097	10/15/2015 8:17	0.006271	0.005751	0.006271
0	1	-	2.509772	10/15/2015 8:20	2.475032	2.516928	2.537357
0	1	-	-0.03655	10/15/2015 8:22	-0.03615	-0.03649	-0.03701
0	1	0.000648	-0.00406	10/15/2015 8:24	-0.00377	-0.00412	-0.00429
0	1	0.001363	0.001192	10/15/2015 8:26	0.001423	0.000557	0.001596
0	1	0.000735	-0.01814	10/15/2015 8:28	-0.01779	-0.01831	-0.01831
0	1	0.11662	2.872411	10/15/2015 8:31	2.824917	2.87218	2.920136
0	1	0.116239	3.005314	10/15/2015 8:33	2.956146	3.008949	3.050845
0	1	0	-0.04896	10/15/2015 8:35	-0.04896	-0.04896	-0.04896
0	1	0.044759	2.742972	10/15/2015 8:37	2.725024	2.742337	2.761554
0	1	0.045627	1.194831	10/15/2015 8:39	1.174864	1.197889	1.211739
0	1	0.001605	-0.03499	10/15/2015 8:42	-0.03545	-0.03528	-0.03424
0	1	0.001272	-0.00135	10/15/2015 8:44	-0.00135	-0.00187	-0.00083
0	1	-	2.492056	10/15/2015 8:46	2.446813	2.496673	2.532683
0	1	-	-0.03736	10/15/2015 8:48	-0.03718	-0.03718	-0.0377
0	1	0.000648	0.003443	10/15/2015 8:50	0.003501	0.003674	0.003154
0	1	0.000245	0.001885	10/15/2015 8:53	0.001769	0.001942	0.001942
0	1	0.000648	0.000269	10/15/2015 8:55	0.000557	0.000038	0.000211

0	1	0.000648	0.002866	10/15/2015 8:57	0.002808	0.002635	0.003154
0	1	0.001272	0.010426	10/15/2015 8:59	0.010945	0.010426	0.009906
0	1	0.000245	0.006848	10/15/2015 9:02	0.00679	0.00679	0.006963
0	1	0.000245	0.006328	10/15/2015 9:04	0.006271	0.006444	0.006271
0	1	0.000883	0.002577	10/15/2015 9:06	0.002981	0.002289	0.002462
0	1	0.059374	2.507579	10/15/2015 9:08	2.483515	2.507233	2.53199
0	1	0.001943	-0.02662	10/15/2015 9:10	-0.02576	-0.0268	-0.02732
0	1	-	2.495634	10/15/2015 9:13	2.459451	2.499616	2.527835
0	1	-	-0.03228	10/15/2015 9:15	-0.03147	-0.03251	-0.03286
0	1	0	0.000038	10/15/2015 9:17	0.000038		
0	1	0.000424	-0.00377	10/15/2015 9:17	-0.00394	-0.00377	-0.0036
0	1	0.000245	0.001539	10/15/2015 9:20	0.001596	0.001423	0.001596
0	1	0.00049	-0.00666	10/15/2015 9:22	-0.00689	-0.00654	-0.00654
0	1	0.001296	-7.7E-05	10/15/2015 9:24	0.000384	0.000038	-0.00065
0	1	0.001224	0.00881	10/15/2015 9:26	0.008521	0.008521	0.009387
0	1	0.001489	0.000096	10/15/2015 9:28	0.000038	0.000731	-0.00048
0	1	0.073219	3.020202	10/15/2015 9:31	2.987135	3.028166	3.045305
0	1	0.051627	2.427307	10/15/2015 9:33	2.403531	2.434694	2.443696
0	1	0.000245	-0.04422	10/15/2015 9:35	-0.04428	-0.04411	-0.04428
0	1	0.060499	2.927754	10/15/2015 9:37	2.901439	2.931389	2.950433
0	1	-	2.419228	10/15/2015 9:40	2.391239	2.425518	2.440926
0	1	-	-0.02893	10/15/2015 9:42	-0.02801	-0.02905	-0.02974
0	1	0.108782	2.603375	10/15/2015 9:44	2.558651	2.60401	2.647464
0	1	0.0131	0.259264	10/15/2015 9:46	0.253493	0.260245	0.264054
0	1	0.001912	-0.01375	10/15/2015 9:48	-0.01295	-0.01381	-0.0145
0	1	0.001605	-0.00695	10/15/2015 9:51	-0.00619	-0.00723	-0.00741
0	1	0.000848	0.024276	10/15/2015 9:53	0.023929	0.024276	0.024622
0	1	0.000424	0.006271	10/15/2015 9:55	0.006271	0.006444	0.006097
0	1	0.00212	0.075174	10/15/2015 9:57	0.074309	0.075174	0.07604
0	1	0.000735	0.004712	10/15/2015 9:59	0.004886	0.004366	0.004886
0	1	0.000424	0.010599	10/15/2015 10:02	0.010599	0.010426	0.010772
0	1	0.000848	-0.00117	10/15/2015 10:04	-0.00152	-0.00117	-0.00083
0	1	-	2.474686	10/15/2015 10:06	2.448717	2.479014	2.496326
0	1	-	-0.02374	10/15/2015 10:08	-0.02299	-0.02403	-0.0242
0	1	0.001912	0.002924	10/15/2015 10:11	0.002116	0.002981	0.003674
0	1	0.000245	-0.0021	10/15/2015 10:13	-0.00204	-0.00221	-0.00204
0	1	0.001766	0.002866	10/15/2015 10:15	0.002289	0.002635	0.003674
0	1	0.001224	0.00604	10/15/2015 10:17	0.005751	0.005751	0.006617
0	1	0.055221	2.558882	10/15/2015 10:19	2.535626	2.560383	2.580638
0	1	0.064358	2.333531	10/15/2015 10:21	2.306408	2.33532	2.358865
0	1	0.002336	-0.03465	10/15/2015 10:24	-0.03372	-0.03459	-0.03563
0	1	0.066861	2.956088	10/15/2015 10:26	2.9281	2.957531	2.982634
0	1	0.098577	2.988174	10/15/2015 10:28	2.950779	2.98298	3.030763
0	1	0.002004	-0.03395	10/15/2015 10:30	-0.03424	-0.03459	-0.03303
0	1	-	2.447794	10/15/2015 10:33	2.420498	2.45166	2.471223
0	1	-	-0.03032	10/15/2015 10:35	-0.03009	-0.03026	-0.03061
0	1	-	2.166523	10/15/2015 10:37	2.245815	2.167389	2.086366

0	1	-	2.453391	10/15/2015 11:34	2.423614	2.457373	2.479187
0	1	-	-0.01231	10/15/2015 11:36	-0.01243	-0.01225	-0.01225
0	1	-	-0.00354	10/15/2015 11:38	-0.00481	-0.00377	

Trace Metals by Method 6010C

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Est. 1970

Quality Control Summary
SDG: L793892

Trace Metals by Method 6010C
LaBella Associates, P.C.

Project: Former Photech Imaging Site
Project No: 2151305

Login No: L793892

Lab SampleID.	Client ID
L793892-01	RMW-5
L793892-02	RMW-6
L793892-03	RMW-8
L793892-04	RMW-9
L793892-05	BLIND DUP
L793892-06	RMW-7
L793892-07	RMW-4
L793892-08	WELL-07
L793892-09	RMW-3
L793892-10	WELL-09
L793892-11	RMW-2
L793892-12	RMW-1
L793892-13	WELL-04
L793892-14	EQ BLANK
L793892-16	TRIP BLANK

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test:	Trace Metals by Method 6010C		
Project No:	2151305	Matrix:	Water - mg/L
Project:	Former Photech Imaging Site	EPA ID:	TN00003
Collection Date:	10/7/2015	**Analytic Batch:**	**WG821543**
Analysis Date:	10/15/2015	Analyst:	136
Instrument ID:	ICP13	Prep Date:	10/13/2015

Sample Numbers: L793892-01, -02, -03, -04, -05, -06, -08, -09, -10, -11, -12, -13, -14, -07

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICP13	Blank WG821543	Blank WG821543	101515ICP13(123)	10/15/2015	4:06 PM
ICP13	LCS WG821543	LCS WG821543	101515ICP13(124)	10/15/2015	4:09 PM
ICP13	LCSD WG821543	LCSD WG821543	101515ICP13(125)	10/15/2015	4:12 PM
ICP13	RMW-7	L793892-06	101515ICP13(126)	10/15/2015	4:15 PM
ICP13	DUP WG821543	DUP WG821543	101515ICP13(127)	10/15/2015	4:18 PM
ICP13	MS WG821543	MS WG821543	101515ICP13(128)	10/15/2015	4:21 PM
ICP13	MSD WG821543	MSD WG821543	101515ICP13(129)	10/15/2015	4:24 PM
ICP13	RMW-5	L793892-01	101515ICP13(130)	10/15/2015	4:27 PM
ICP13	RMW-6	L793892-02	101515ICP13(131)	10/15/2015	4:30 PM
ICP13	RMW-8	L793892-03	101515ICP13(132)	10/15/2015	4:33 PM
ICP13	RMW-9	L793892-04	101515ICP13(135)	10/15/2015	4:42 PM
ICP13	BLIND DUP	L793892-05	101515ICP13(136)	10/15/2015	4:45 PM
ICP13	WELL-07	L793892-08	101515ICP13(138)	10/15/2015	4:51 PM
ICP13	RMW-3	L793892-09	101515ICP13(139)	10/15/2015	4:54 PM
ICP13	WELL-09	L793892-10	101515ICP13(140)	10/15/2015	4:57 PM
ICP13	RMW-2	L793892-11	101515ICP13(141)	10/15/2015	5:01 PM
ICP13	RMW-1	L793892-12	101515ICP13(142)	10/15/2015	5:04 PM
ICP13	WELL-04	L793892-13	101515ICP13(143)	10/15/2015	5:07 PM
ICP13	EQ BLANK	L793892-14	101515ICP13(144)	10/15/2015	5:10 PM
ICP13	RMW-4	L793892-07	101915ICP13(48)	10/19/2015	11:05 AM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: ICV
Analysis Date: 10/15/2015 10:02 AM
Analysis Time: 1002
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.992	1	99 %	90-110
Arsenic	0.986	1	99 %	90-110
Barium	1.01	1	101 %	90-110
Cadmium	0.984	1	98 %	90-110
Chromium	0.998	1	100 %	90-110
Lead	0.992	1	99 %	90-110
Selenium	1.00	1	100 %	90-110

Standard Type: ICVLL
Analysis Date: 10/15/2015 10:08 AM
Analysis Time: 1008
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.0047	0.0050	94.5%	50-150
Arsenic	0.0105	0.01	105%	50-150
Barium	0.0052	0.0050	104%	50-150
Cadmium	0.0019	0.0020	97.3%	50-150
Chromium	0.0099	0.01	98.6%	50-150
Lead	0.0060	0.0050	120%	50-150
Selenium	0.0095	0.01	94.9%	50-150

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/15/2015 10:37 AM
Analysis Time: 1037
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.992	1	99 %	90-110
Arsenic	2.03	2	102 %	90-110
Barium	0.507	0.5	101 %	90-110
Cadmium	0.511	0.5	102 %	90-110
Chromium	1.02	1	102 %	90-110
Lead	0.501	0.5	100 %	90-110
Selenium	2.08	2	104 %	90-110

Standard Type: CCVLL
Analysis Date: 10/15/2015 10:43 AM
Analysis Time: 1043
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.0053	0.0050	106%	50-150
Arsenic	0.0113	0.01	113%	50-150
Barium	0.0052	0.0050	103%	50-150
Cadmium	0.0020	0.0020	99.9%	50-150
Chromium	0.0098	0.01	98.5%	50-150
Lead	0.0064	0.0050	127%	50-150
Selenium	0.0091	0.01	91%	50-150

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Est. 1970

Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/15/2015 11:16 AM
Analysis Time: 1116
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.987	1	99 %	90-110
Arsenic	2.01	2	101 %	90-110
Barium	0.493	0.5	99 %	90-110
Cadmium	0.501	0.5	100 %	90-110
Chromium	1.01	1	101 %	90-110
Lead	0.497	0.5	99 %	90-110
Selenium	2.05	2	103 %	90-110

Standard Type: CCV
Analysis Date: 10/15/2015 11:59 AM
Analysis Time: 1159
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.988	1	99 %	90-110
Arsenic	2.01	2	101 %	90-110
Barium	0.493	0.5	99 %	90-110
Cadmium	0.501	0.5	100 %	90-110
Chromium	1.01	1	101 %	90-110
Lead	0.496	0.5	99 %	90-110
Selenium	2.05	2	103 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/15/2015 12:35 PM
Analysis Time: 1235
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.988	1	99 %	90-110
Arsenic	1.99	2	99 %	90-110
Barium	0.487	0.5	97 %	90-110
Cadmium	0.496	0.5	99 %	90-110
Chromium	1.01	1	101 %	90-110
Lead	0.497	0.5	99 %	90-110
Selenium	2.03	2	101 %	90-110

Standard Type: CCV
Analysis Date: 10/15/2015 1:11 PM
Analysis Time: 1311
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.995	1	100 %	90-110
Arsenic	2.00	2	100 %	90-110
Barium	0.488	0.5	98 %	90-110
Cadmium	0.498	0.5	100 %	90-110
Chromium	1.01	1	101 %	90-110
Lead	0.498	0.5	100 %	90-110
Selenium	2.03	2	102 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/15/2015 1:44 PM
Analysis Time: 1344
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.994	1	99 %	90-110
Arsenic	2.00	2	100 %	90-110
Barium	0.487	0.5	97 %	90-110
Cadmium	0.497	0.5	99 %	90-110
Chromium	1.01	1	101 %	90-110
Lead	0.499	0.5	100 %	90-110
Selenium	2.04	2	102 %	90-110

Standard Type: CCV
Analysis Date: 10/15/2015 2:08 PM
Analysis Time: 1408
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.989	1	99 %	90-110
Arsenic	1.99	2	100 %	90-110
Barium	0.485	0.5	97 %	90-110
Cadmium	0.497	0.5	99 %	90-110
Chromium	1.01	1	101 %	90-110
Lead	0.499	0.5	100 %	90-110
Selenium	2.03	2	101 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/15/2015 2:52 PM
Analysis Time: 1452
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.993	1	99 %	90-110
Arsenic	1.99	2	99 %	90-110
Barium	0.486	0.5	97 %	90-110
Cadmium	0.496	0.5	99 %	90-110
Chromium	1.00	1	100 %	90-110
Lead	0.498	0.5	100 %	90-110
Selenium	2.03	2	101 %	90-110

Standard Type: CCV
Analysis Date: 10/15/2015 3:29 PM
Analysis Time: 1529
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.999	1	100 %	90-110
Arsenic	1.99	2	100 %	90-110
Barium	0.485	0.5	97 %	90-110
Cadmium	0.498	0.5	100 %	90-110
Chromium	1.02	1	102 %	90-110
Lead	0.503	0.5	101 %	90-110
Selenium	2.04	2	102 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/15/2015 4:00 PM
Analysis Time: 1600
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.990	1	99 %	90-110
Arsenic	1.99	2	99 %	90-110
Barium	0.484	0.5	97 %	90-110
Cadmium	0.497	0.5	99 %	90-110
Chromium	1.01	1	101 %	90-110
Lead	0.504	0.5	101 %	90-110
Selenium	2.03	2	101 %	90-110

Standard Type: CCV
Analysis Date: 10/15/2015 4:36 PM
Analysis Time: 1636
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.994	1	99 %	90-110
Arsenic	2.00	2	100 %	90-110
Barium	0.485	0.5	97 %	90-110
Cadmium	0.499	0.5	100 %	90-110
Chromium	1.03	1	103 %	90-110
Lead	0.510	0.5	102 %	90-110
Selenium	2.03	2	102 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/15/2015 5:13 PM
Analysis Time: 1713
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	1.00	1	100 %	90-110
Arsenic	1.99	2	100 %	90-110
Barium	0.484	0.5	97 %	90-110
Cadmium	0.497	0.5	99 %	90-110
Chromium	1.03	1	103 %	90-110
Lead	0.510	0.5	102 %	90-110
Selenium	2.03	2	101 %	90-110

Standard Type: CCV
Analysis Date: 10/15/2015 5:34 PM
Analysis Time: 1734
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.999	1	100 %	90-110
Arsenic	1.98	2	99 %	90-110
Barium	0.485	0.5	97 %	90-110
Cadmium	0.497	0.5	99 %	90-110
Chromium	1.04	1	104 %	90-110
Lead	0.512	0.5	102 %	90-110
Selenium	2.02	2	101 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCVLL
Analysis Date: 10/15/2015 5:40 PM
Analysis Time: 1740
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.0053	0.0050	106%	50-150
Arsenic	0.0110	0.01	110%	50-150
Barium	0.0053	0.0050	106%	50-150
Cadmium	0.0020	0.0020	101%	50-150
Chromium	0.0098	0.01	97.6%	50-150
Lead	0.0057	0.0050	114%	50-150
Selenium	0.0088	0.01	88.2%	50-150

Standard Type: CCV
Analysis Date: 10/15/2015 6:17 PM
Analysis Time: 1817
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.995	1	100 %	90-110
Arsenic	1.99	2	100 %	90-110
Barium	0.488	0.5	98 %	90-110
Cadmium	0.495	0.5	99 %	90-110
Chromium	1.04	1	104 %	90-110
Lead	0.513	0.5	103 %	90-110
Selenium	2.01	2	101 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/15/2015 6:54 PM
Analysis Time: 1854
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.992	1	99 %	90-110
Arsenic	1.99	2	99 %	90-110
Barium	0.488	0.5	98 %	90-110
Cadmium	0.495	0.5	99 %	90-110
Chromium	1.04	1	104 %	90-110
Lead	0.513	0.5	103 %	90-110
Selenium	2.02	2	101 %	90-110

Standard Type: CCV
Analysis Date: 10/15/2015 7:16 PM
Analysis Time: 1916
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.997	1	100 %	90-110
Arsenic	2.00	2	100 %	90-110
Barium	0.491	0.5	98 %	90-110
Cadmium	0.498	0.5	100 %	90-110
Chromium	1.04	1	104 %	90-110
Lead	0.518	0.5	104 %	90-110
Selenium	2.04	2	102 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCVLL
Analysis Date: 10/15/2015 7:30 PM
Analysis Time: 1930
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.0054	0.0050	108%	50-150
Arsenic	0.0121	0.01	121%	50-150
Barium	0.0051	0.0050	103%	50-150
Cadmium	0.0020	0.0020	98.7%	50-150
Chromium	0.0095	0.01	95.5%	50-150
Lead	0.0055	0.0050	110%	50-150
Selenium	0.0107	0.01	107%	50-150

Standard Type: CCV
Analysis Date: 10/15/2015 8:37 PM
Analysis Time: 2037
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.988	1	99 %	90-110
Arsenic	1.99	2	99 %	90-110
Barium	0.492	0.5	98 %	90-110
Cadmium	0.496	0.5	99 %	90-110
Chromium	1.04	1	104 %	90-110
Lead	0.516	0.5	103 %	90-110
Selenium	2.02	2	101 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/15/2015 8:56 PM
Analysis Time: 2056
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.988	1	99 %	90-110
Arsenic	1.99	2	99 %	90-110
Barium	0.491	0.5	98 %	90-110
Cadmium	0.497	0.5	99 %	90-110
Chromium	1.05	1	105 %	90-110
Lead	0.516	0.5	103 %	90-110
Selenium	2.02	2	101 %	90-110

Standard Type: CCV
Analysis Date: 10/15/2015 10:36 PM
Analysis Time: 2236
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.983	1	98 %	90-110
Arsenic	2.03	2	102 %	90-110
Barium	0.505	0.5	101 %	90-110
Cadmium	0.509	0.5	102 %	90-110
Chromium	1.02	1	102 %	90-110
Lead	0.506	0.5	101 %	90-110
Selenium	2.07	2	104 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCVLL
Analysis Date: 10/15/2015 10:43 PM
Analysis Time: 2243
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.0039	0.0050	77.8%	50-150
Arsenic	0.0113	0.01	113%	50-150
Barium	0.0050	0.0050	100%	50-150
Cadmium	0.0021	0.0020	105%	50-150
Chromium	0.0097	0.01	97.2%	50-150
Lead	0.0060	0.0050	121%	50-150
Selenium	0.0102	0.01	102%	50-150

Standard Type: CCV
Analysis Date: 10/15/2015 11:16 PM
Analysis Time: 2316
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.984	1	98 %	90-110
Arsenic	2.04	2	102 %	90-110
Barium	0.505	0.5	101 %	90-110
Cadmium	0.509	0.5	102 %	90-110
Chromium	1.02	1	102 %	90-110
Lead	0.508	0.5	102 %	90-110
Selenium	2.07	2	104 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/15/2015 11:53 PM
Analysis Time: 2353
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Arsenic	2.03	2	102 %	90-110
Barium	0.505	0.5	101 %	90-110
Cadmium	0.508	0.5	102 %	90-110
Lead	0.514	0.5	103 %	90-110
Selenium	2.06	2	103 %	90-110

Standard Type: CCV
Analysis Date: 10/16/2015 12:23 AM
Analysis Time: 0023
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.985	1	99 %	90-110
Arsenic	2.04	2	102 %	90-110
Barium	0.502	0.5	100 %	90-110
Cadmium	0.507	0.5	101 %	90-110
Chromium	1.02	1	102 %	90-110
Lead	0.506	0.5	101 %	90-110
Selenium	2.07	2	104 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/16/2015 12:59 AM
Analysis Time: 0059
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.977	1	98 %	90-110
Arsenic	2.03	2	101 %	90-110
Barium	0.500	0.5	100 %	90-110
Cadmium	0.505	0.5	101 %	90-110
Chromium	1.02	1	102 %	90-110
Lead	0.503	0.5	101 %	90-110
Selenium	2.07	2	103 %	90-110

Standard Type: CCV
Analysis Date: 10/16/2015 1:36 AM
Analysis Time: 0136
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.980	1	98 %	90-110
Arsenic	2.05	2	102 %	90-110
Barium	0.506	0.5	101 %	90-110
Cadmium	0.509	0.5	102 %	90-110
Chromium	1.02	1	102 %	90-110
Lead	0.507	0.5	101 %	90-110
Selenium	2.08	2	104 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/16/2015 2:06 AM
Analysis Time: 0206
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.981	1	98 %	90-110
Arsenic	2.05	2	103 %	90-110
Barium	0.509	0.5	102 %	90-110
Cadmium	0.511	0.5	102 %	90-110
Chromium	1.02	1	102 %	90-110
Lead	0.505	0.5	101 %	90-110
Selenium	2.09	2	105 %	90-110

Standard Type: CCV
Analysis Date: 10/16/2015 2:42 AM
Analysis Time: 0242
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.975	1	98 %	90-110
Arsenic	2.04	2	102 %	90-110
Barium	0.507	0.5	101 %	90-110
Cadmium	0.509	0.5	102 %	90-110
Chromium	1.02	1	102 %	90-110
Lead	0.503	0.5	101 %	90-110
Selenium	2.08	2	104 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/16/2015 3:19 AM
Analysis Time: 0319
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.976	1	98 %	90-110
Arsenic	2.05	2	102 %	90-110
Barium	0.506	0.5	101 %	90-110
Cadmium	0.509	0.5	102 %	90-110
Chromium	1.02	1	102 %	90-110
Lead	0.503	0.5	101 %	90-110
Selenium	2.08	2	104 %	90-110

Standard Type: CCV
Analysis Date: 10/16/2015 3:55 AM
Analysis Time: 0355
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.976	1	98 %	90-110
Arsenic	2.05	2	102 %	90-110
Barium	0.506	0.5	101 %	90-110
Cadmium	0.508	0.5	102 %	90-110
Chromium	1.02	1	102 %	90-110
Lead	0.504	0.5	101 %	90-110
Selenium	2.08	2	104 %	90-110

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Est. 1970

Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/16/2015 4:32 AM
Analysis Time: 0432
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.975	1	98 %	90-110
Arsenic	2.04	2	102 %	90-110
Barium	0.508	0.5	102 %	90-110
Cadmium	0.509	0.5	102 %	90-110
Chromium	1.02	1	102 %	90-110
Lead	0.503	0.5	101 %	90-110
Selenium	2.07	2	104 %	90-110

Standard Type: CCV
Analysis Date: 10/16/2015 5:09 AM
Analysis Time: 0509
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.973	1	97 %	90-110
Arsenic	2.04	2	102 %	90-110
Barium	0.505	0.5	101 %	90-110
Cadmium	0.507	0.5	101 %	90-110
Chromium	1.02	1	102 %	90-110
Lead	0.504	0.5	101 %	90-110
Selenium	2.07	2	104 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/16/2015 5:46 AM
Analysis Time: 0546
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.970	1	97 %	90-110
Arsenic	2.04	2	102 %	90-110
Barium	0.506	0.5	101 %	90-110
Cadmium	0.509	0.5	102 %	90-110
Chromium	1.02	1	102 %	90-110
Lead	0.504	0.5	101 %	90-110
Selenium	2.07	2	103 %	90-110

Standard Type: CCV
Analysis Date: 10/16/2015 6:18 AM
Analysis Time: 0618
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.963	1	96 %	90-110
Arsenic	2.01	2	101 %	90-110
Barium	0.500	0.5	100 %	90-110
Cadmium	0.503	0.5	101 %	90-110
Chromium	1.02	1	102 %	90-110
Lead	0.500	0.5	100 %	90-110
Selenium	2.04	2	102 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCVLL
Analysis Date: 10/16/2015 6:25 AM
Analysis Time: 0625
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.0046	0.0050	91.8%	50-150
Arsenic	0.0120	0.01	120%	50-150
Barium	0.0050	0.0050	101%	50-150
Cadmium	0.0019	0.0020	92.8%	50-150
Chromium	0.0100	0.01	100%	50-150
Lead	0.0051	0.0050	101%	50-150
Selenium	0.0123	0.01	123%	50-150

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: ICV
Analysis Date: 10/19/2015 9:12 AM
Analysis Time: 0912
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.976	1	98 %	90-110
Arsenic	0.997	1	100 %	90-110
Barium	1.02	1	102 %	90-110
Cadmium	0.995	1	99 %	90-110
Chromium	0.993	1	99 %	90-110
Lead	0.985	1	98 %	90-110
Selenium	1.01	1	101 %	90-110

Standard Type: ICVLL
Analysis Date: 10/19/2015 9:19 AM
Analysis Time: 0919
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.0053	0.0050	107%	50-150
Arsenic	0.0086	0.01	86.1%	50-150
Barium	0.0052	0.0050	104%	50-150
Cadmium	0.0020	0.0020	101%	50-150
Chromium	0.0099	0.01	98.7%	50-150
Lead	0.0063	0.0050	125%	50-150
Selenium	0.0149	0.01	149%	50-150

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/19/2015 10:18 AM
Analysis Time: 1018
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.948	1	95 %	90-110
Arsenic	2.04	2	102 %	90-110
Barium	0.500	0.5	100 %	90-110
Cadmium	0.500	0.5	100 %	90-110
Chromium	0.983	1	98 %	90-110
Lead	0.488	0.5	98 %	90-110
Selenium	2.09	2	104 %	90-110

Standard Type: CCV
Analysis Date: 10/19/2015 10:53 AM
Analysis Time: 1053
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.936	1	94 %	90-110
Arsenic	2.04	2	102 %	90-110
Barium	0.496	0.5	99 %	90-110
Cadmium	0.497	0.5	99 %	90-110
Chromium	0.969	1	97 %	90-110
Lead	0.481	0.5	96 %	90-110
Selenium	2.08	2	104 %	90-110

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Est. 1970

Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/19/2015 11:08 AM
Analysis Time: 1108
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.932	1	93 %	90-110
Arsenic	2.06	2	103 %	90-110
Barium	0.500	0.5	100 %	90-110
Cadmium	0.499	0.5	100 %	90-110
Chromium	0.969	1	97 %	90-110
Lead	0.477	0.5	95 %	90-110
Selenium	2.11	2	105 %	90-110

Standard Type: CCV
Analysis Date: 10/19/2015 11:44 AM
Analysis Time: 1144
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.925	1	93 %	90-110
Arsenic	2.07	2	103 %	90-110
Barium	0.501	0.5	100 %	90-110
Cadmium	0.499	0.5	100 %	90-110
Chromium	0.955	1	95 %	90-110
Lead	0.472	0.5	94 %	90-110
Selenium	2.10	2	105 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/19/2015 11:53 AM
Analysis Time: 1153
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.927	1	93 %	90-110
Arsenic	2.07	2	103 %	90-110
Barium	0.501	0.5	100 %	90-110
Cadmium	0.500	0.5	100 %	90-110
Chromium	0.954	1	95 %	90-110
Lead	0.471	0.5	94 %	90-110
Selenium	2.09	2	105 %	90-110

Standard Type: CCV
Analysis Date: 10/19/2015 12:41 PM
Analysis Time: 1241
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.925	1	93 %	90-110
Arsenic	2.05	2	103 %	90-110
Barium	0.500	0.5	100 %	90-110
Cadmium	0.500	0.5	100 %	90-110
Chromium	0.951	1	95 %	90-110
Lead	0.468	0.5	94 %	90-110
Selenium	2.09	2	105 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/19/2015 1:16 PM
Analysis Time: 1316
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.925	1	92 %	90-110
Arsenic	2.03	2	102 %	90-110
Barium	0.496	0.5	99 %	90-110
Cadmium	0.497	0.5	99 %	90-110
Chromium	0.941	1	94 %	90-110
Lead	0.467	0.5	93 %	90-110
Selenium	2.07	2	104 %	90-110

Standard Type: CCV
Analysis Date: 10/19/2015 1:52 PM
Analysis Time: 1352
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.931	1	93 %	90-110
Arsenic	2.03	2	101 %	90-110
Barium	0.495	0.5	99 %	90-110
Cadmium	0.499	0.5	100 %	90-110
Chromium	0.944	1	94 %	90-110
Lead	0.468	0.5	94 %	90-110
Selenium	2.07	2	104 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/19/2015 2:19 PM
Analysis Time: 1419
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.928	1	93 %	90-110
Arsenic	2.01	2	101 %	90-110
Barium	0.494	0.5	99 %	90-110
Cadmium	0.499	0.5	100 %	90-110
Chromium	0.940	1	94 %	90-110
Lead	0.465	0.5	93 %	90-110
Selenium	2.07	2	104 %	90-110

Standard Type: CCVLL
Analysis Date: 10/19/2015 2:25 PM
Analysis Time: 1425
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.0051	0.0050	103%	50-150
Arsenic	0.0070	0.01	70.3%	50-150
Barium	0.0051	0.0050	102%	50-150
Cadmium	0.0019	0.0020	96%	50-150
Chromium	0.0091	0.01	91.4%	50-150
Lead	0.0049	0.0050	98.3%	50-150
Selenium	0.0140	0.01	140%	50-150

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: ICB
Analysis Date: 10/15/2015 10:05 AM
Analysis Time: 1005
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.005	< 0.005	101515ICP13
Arsenic	0.01	< 0.01	101515ICP13
Barium	0.005	< 0.005	101515ICP13
Cadmium	0.002	< 0.002	101515ICP13
Chromium	0.01	< 0.01	101515ICP13
Lead	0.005	< 0.005	101515ICP13
Selenium	0.01	< 0.01	101515ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 10:40 AM
Analysis Time: 1040
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 11:19 AM
Analysis Time: 1119
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 12:02 PM
Analysis Time: 1202
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 12:38 PM
Analysis Time: 1238
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 1:14 PM
Analysis Time: 1314
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 1:47 PM
Analysis Time: 1347
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 2:11 PM
Analysis Time: 1411
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 2:55 PM
Analysis Time: 1455
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 3:32 PM
Analysis Time: 1532
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 4:03 PM
Analysis Time: 1603
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 4:39 PM
Analysis Time: 1639
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 5:16 PM
Analysis Time: 1716
Data File: 101515ICP13

Analyte	RDL	Conc		Filename
Silver	0.0028	< 0.0028		101515ICP13
Arsenic	0.0065	< 0.0065		101515ICP13
Barium	0.0017	< 0.0017		101515ICP13
Cadmium	0.0007	< 0.0007		101515ICP13
Chromium	0.0014	< 0.0014		101515ICP13
Lead	0.0019	< 0.0019		101515ICP13
Selenium	0.0074	< 0.0074		101515ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 5:37 PM
Analysis Time: 1737
Data File: 101515ICP13

Analyte	RDL	Conc		Filename
Silver	0.0028	< 0.0028		101515ICP13
Arsenic	0.0065	< 0.0065		101515ICP13
Barium	0.0017	< 0.0017		101515ICP13
Cadmium	0.0007	< 0.0007		101515ICP13
Chromium	0.0014	< 0.0014		101515ICP13
Lead	0.0019	0.00204	B	101515ICP13
Selenium	0.0074	< 0.0074		101515ICP13

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Est. 1970

Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 6:20 PM
Analysis Time: 1820
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 6:57 PM
Analysis Time: 1857
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 7:19 PM
Analysis Time: 1919
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 8:41 PM
Analysis Time: 2041
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 8:59 PM
Analysis Time: 2059
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 10:40 PM
Analysis Time: 2240
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 11:19 PM
Analysis Time: 2319
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 11:56 PM
Analysis Time: 2356
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/16/2015 12:26 AM
Analysis Time: 0026
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

Standard Type: CCB
Analysis Date: 10/16/2015 1:02 AM
Analysis Time: 0102
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/16/2015 1:39 AM
Analysis Time: 0139
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

Standard Type: CCB
Analysis Date: 10/16/2015 2:09 AM
Analysis Time: 0209
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/16/2015 2:45 AM
Analysis Time: 0245
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

Standard Type: CCB
Analysis Date: 10/16/2015 3:23 AM
Analysis Time: 0323
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/16/2015 3:58 AM
Analysis Time: 0358
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

Standard Type: CCB
Analysis Date: 10/16/2015 4:35 AM
Analysis Time: 0435
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/16/2015 5:12 AM
Analysis Time: 0512
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

Standard Type: CCB
Analysis Date: 10/16/2015 5:49 AM
Analysis Time: 0549
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/16/2015 6:22 AM
Analysis Time: 0622
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: ICB
Analysis Date: 10/19/2015 9:15 AM
Analysis Time: 0915
Data File: 101915ICP13

Analyte	RDL	Conc	Filename
Silver	0.005	< 0.005	101915ICP13
Arsenic	0.01	< 0.01	101915ICP13
Barium	0.005	< 0.005	101915ICP13
Cadmium	0.002	< 0.002	101915ICP13
Chromium	0.01	< 0.01	101915ICP13
Lead	0.005	< 0.005	101915ICP13
Selenium	0.01	< 0.01	101915ICP13

Standard Type: CCB
Analysis Date: 10/19/2015 10:21 AM
Analysis Time: 1021
Data File: 101915ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101915ICP13
Arsenic	0.0065	< 0.0065	101915ICP13
Barium	0.0017	< 0.0017	101915ICP13
Cadmium	0.0007	< 0.0007	101915ICP13
Chromium	0.0014	< 0.0014	101915ICP13
Lead	0.0019	< 0.0019	101915ICP13
Selenium	0.0074	< 0.0074	101915ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/19/2015 10:56 AM
Analysis Time: 1056
Data File: 101915ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101915ICP13
Arsenic	0.0065	< 0.0065	101915ICP13
Barium	0.0017	< 0.0017	101915ICP13
Cadmium	0.0007	< 0.0007	101915ICP13
Chromium	0.0014	< 0.0014	101915ICP13
Lead	0.0019	< 0.0019	101915ICP13
Selenium	0.0074	< 0.0074	101915ICP13

Standard Type: CCB
Analysis Date: 10/19/2015 11:11 AM
Analysis Time: 1111
Data File: 101915ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101915ICP13
Arsenic	0.0065	< 0.0065	101915ICP13
Barium	0.0017	< 0.0017	101915ICP13
Cadmium	0.0007	< 0.0007	101915ICP13
Chromium	0.0014	< 0.0014	101915ICP13
Lead	0.0019	< 0.0019	101915ICP13
Selenium	0.0074	< 0.0074	101915ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/19/2015 11:47 AM
Analysis Time: 1147
Data File: 101915ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101915ICP13
Arsenic	0.0065	< 0.0065	101915ICP13
Barium	0.0017	< 0.0017	101915ICP13
Cadmium	0.0007	< 0.0007	101915ICP13
Chromium	0.0014	< 0.0014	101915ICP13
Lead	0.0019	< 0.0019	101915ICP13
Selenium	0.0074	< 0.0074	101915ICP13

Standard Type: CCB
Analysis Date: 10/19/2015 11:56 AM
Analysis Time: 1156
Data File: 101915ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101915ICP13
Arsenic	0.0065	< 0.0065	101915ICP13
Barium	0.0017	< 0.0017	101915ICP13
Cadmium	0.0007	< 0.0007	101915ICP13
Chromium	0.0014	< 0.0014	101915ICP13
Lead	0.0019	< 0.0019	101915ICP13
Selenium	0.0074	< 0.0074	101915ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/19/2015 12:44 PM
Analysis Time: 1244
Data File: 101915ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101915ICP13
Arsenic	0.0065	< 0.0065	101915ICP13
Barium	0.0017	< 0.0017	101915ICP13
Cadmium	0.0007	< 0.0007	101915ICP13
Chromium	0.0014	< 0.0014	101915ICP13
Lead	0.0019	< 0.0019	101915ICP13
Selenium	0.0074	< 0.0074	101915ICP13

Standard Type: CCB
Analysis Date: 10/19/2015 1:19 PM
Analysis Time: 1319
Data File: 101915ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101915ICP13
Arsenic	0.0065	< 0.0065	101915ICP13
Barium	0.0017	< 0.0017	101915ICP13
Cadmium	0.0007	< 0.0007	101915ICP13
Chromium	0.0014	< 0.0014	101915ICP13
Lead	0.0019	< 0.0019	101915ICP13
Selenium	0.0074	< 0.0074	101915ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/19/2015 1:55 PM
Analysis Time: 1355
Data File: 101915ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101915ICP13
Arsenic	0.0065	< 0.0065	101915ICP13
Barium	0.0017	< 0.0017	101915ICP13
Cadmium	0.0007	< 0.0007	101915ICP13
Chromium	0.0014	< 0.0014	101915ICP13
Lead	0.0019	< 0.0019	101915ICP13
Selenium	0.0074	< 0.0074	101915ICP13

Standard Type: CCB
Analysis Date: 10/19/2015 2:22 PM
Analysis Time: 1422
Data File: 101915ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101915ICP13
Arsenic	0.0065	< 0.0065	101915ICP13
Barium	0.0017	< 0.0017	101915ICP13
Cadmium	0.0007	< 0.0007	101915ICP13
Chromium	0.0014	< 0.0014	101915ICP13
Lead	0.0019	< 0.0019	101915ICP13
Selenium	0.0074	< 0.0074	101915ICP13

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Est. 1970

Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type : ICSA
Analysis Date: 10/15/2015 10:18 AM
Analysis Time: 1018
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0004	0		80 - 120
ALUMINUM	499	500	100 %	80 - 120
ARSENIC	-0.0126	0		80 - 120
BORON	-0.0005	0		80 - 120
BARIUM	0.0028	0		80 - 120
BERYLLIUM	0.0000	0		80 - 120
CALCIUM	504	500	101 %	80 - 120
CADMIUM	0.0009	0		80 - 120
COBALT	-0.0008	0		80 - 120
CHROMIUM	0.0010	0		80 - 120
COPPER	0.0050	0		80 - 120
IRON	196	200	98 %	80 - 120
POTASSIUM	0.0507	0		80 - 120
LITHIUM	0.0156	0		80 - 120
MAGNESIUM	501	500	100 %	80 - 120
MANGANESE	0.0039	0		80 - 120
MOLYBDENUM	0.0014	0		80 - 120
SODIUM	0.190	0		80 - 120
NICKEL	0.0115	0		80 - 120
LEAD	-0.0182	0		80 - 120
SULFUR	0.0066	0		80 - 120
ANTIMONY	0.0089	0		80 - 120
SELENIUM	0.0194	0		80 - 120
SILICON	-0.0074	0		80 - 120
TIN	0.0005	0		80 - 120
STRONTIUM	0.0062	0		80 - 120
TITANIUM	0.0242	0		80 - 120
THALLIUM	-0.0069	0		80 - 120
VANADIUM	0.0091	0		80 - 120
ZINC	0.0059	0		80 - 120

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type : ICSAB
Analysis Date: 10/15/2015 10:21 AM
Analysis Time: 1021
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.11	1.00	111 %	80 - 120
ALUMINUM	502	500	100 %	80 - 120
ARSENIC	0.505	0.500	101 %	80 - 120
BORON	0.997	1.00	100 %	80 - 120
BARIUM	0.493	0.500	99 %	80 - 120
BERYLLIUM	0.496	0.500	99 %	80 - 120
CALCIUM	503	500	101 %	80 - 120
CADMIUM	1.04	1.00	104 %	80 - 120
COBALT	0.521	0.500	104 %	80 - 120
CHROMIUM	0.479	0.500	96 %	80 - 120
COPPER	0.499	0.500	100 %	80 - 120
IRON	198	200	99 %	80 - 120
POTASSIUM	0.106	0		80 - 120
LITHIUM	0.0143	0		80 - 120
MAGNESIUM	500	500	100 %	80 - 120
MANGANESE	0.483	0.500	97 %	80 - 120
MOLYBDENUM	0.501	0.500	100 %	80 - 120
SODIUM	0.192	0		80 - 120
NICKEL	1.04	1.00	104 %	80 - 120
LEAD	0.983	1.00	98 %	80 - 120
SULFUR	0.0080	0		80 - 120
ANTIMONY	0.524	0.500	105 %	80 - 120
SELENIUM	0.547	0.500	109 %	80 - 120
SILICON	0.964	1.00	96 %	80 - 120
TIN	0.440	0.500	88 %	80 - 120
STRONTIUM	0.0064	0		80 - 120
TITANIUM	0.514	0.500	103 %	80 - 120
THALLIUM	0.462	0.500	92 %	80 - 120
VANADIUM	0.495	0.500	99 %	80 - 120
ZINC	0.941	1.00	94 %	80 - 120

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type : ICSA
Analysis Date: 10/15/2015 7:33 PM
Analysis Time: 1933
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0011	0		80 - 120
ALUMINUM	477	500	95 %	80 - 120
ARSENIC	-0.0139	0		80 - 120
BORON	-0.0084	0		80 - 120
BARIUM	0.0027	0		80 - 120
BERYLLIUM	0.0000	0		80 - 120
CALCIUM	523	500	105 %	80 - 120
CADMIUM	0.0008	0		80 - 120
COBALT	-0.0007	0		80 - 120
CHROMIUM	0.0012	0		80 - 120
COPPER	0.0014	0		80 - 120
IRON	189	200	94 %	80 - 120
POTASSIUM	0.428	0		80 - 120
LITHIUM	0.0172	0		80 - 120
MAGNESIUM	487	500	97 %	80 - 120
MANGANESE	0.0042	0		80 - 120
MOLYBDENUM	0.0006	0		80 - 120
SODIUM	0.280	0		80 - 120
NICKEL	0.0105	0		80 - 120
LEAD	-0.0337	0		80 - 120
SULFUR	0.0142	0		80 - 120
ANTIMONY	0.0089	0		80 - 120
SELENIUM	0.0119	0		80 - 120
SILICON	-0.0056	0		80 - 120
TIN	0.0009	0		80 - 120
STRONTIUM	0.0065	0		80 - 120
TITANIUM	0.0263	0		80 - 120
THALLIUM	-0.0087	0		80 - 120
VANADIUM	0.0090	0		80 - 120
ZINC	0.0065	0		80 - 120

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type : ICSAB
Analysis Date: 10/15/2015 7:36 PM
Analysis Time: 1936
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.11	1.00	111 %	80 - 120
ALUMINUM	483	500	97 %	80 - 120
ARSENIC	0.495	0.500	99 %	80 - 120
BORON	0.931	1.00	93 %	80 - 120
BARIUM	0.479	0.500	96 %	80 - 120
BERYLLIUM	0.479	0.500	96 %	80 - 120
CALCIUM	528	500	106 %	80 - 120
CADMIUM	1.02	1.00	102 %	80 - 120
COBALT	0.527	0.500	105 %	80 - 120
CHROMIUM	0.494	0.500	99 %	80 - 120
COPPER	0.490	0.500	98 %	80 - 120
IRON	192	200	96 %	80 - 120
POTASSIUM	0.516	0		80 - 120
LITHIUM	0.0165	0		80 - 120
MAGNESIUM	495	500	99 %	80 - 120
MANGANESE	0.495	0.500	99 %	80 - 120
MOLYBDENUM	0.458	0.500	92 %	80 - 120
SODIUM	0.302	0		80 - 120
NICKEL	1.06	1.00	106 %	80 - 120
LEAD	1.00	1.00	100 %	80 - 120
SULFUR	0.0214	0		80 - 120
ANTIMONY	0.502	0.500	100 %	80 - 120
SELENIUM	0.527	0.500	105 %	80 - 120
SILICON	0.968	1.00	97 %	80 - 120
TIN	0.453	0.500	91 %	80 - 120
STRONTIUM	0.0065	0		80 - 120
TITANIUM	0.518	0.500	104 %	80 - 120
THALLIUM	0.477	0.500	95 %	80 - 120
VANADIUM	0.471	0.500	94 %	80 - 120
ZINC	0.971	1.00	97 %	80 - 120

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type : ICSA
Analysis Date: 10/16/2015 6:28 AM
Analysis Time: 0628
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0013	0		80 - 120
ALUMINUM	503	500	101 %	80 - 120
ARSENIC	-0.0112	0		80 - 120
BORON	0.0050	0		80 - 120
BARIUM	0.0027	0		80 - 120
BERYLLIUM	0.0002	0		80 - 120
CALCIUM	487	500	97 %	80 - 120
CADMIUM	0.0009	0		80 - 120
COBALT	-0.0008	0		80 - 120
CHROMIUM	0.0019	0		80 - 120
COPPER	0.0054	0		80 - 120
IRON	194	200	97 %	80 - 120
POTASSIUM	0.0886	0		80 - 120
LITHIUM	0.0138	0		80 - 120
MAGNESIUM	507	500	101 %	80 - 120
MANGANESE	0.0041	0		80 - 120
MOLYBDENUM	0.0006	0		80 - 120
SODIUM	0.214	0		80 - 120
NICKEL	0.0113	0		80 - 120
LEAD	-0.0378	0		80 - 120
SULFUR	0.0166	0		80 - 120
ANTIMONY	0.0113	0		80 - 120
SELENIUM	0.0189	0		80 - 120
SILICON	-0.0040	0		80 - 120
TIN	0.0003	0		80 - 120
STRONTIUM	0.0059	0		80 - 120
TITANIUM	0.0282	0		80 - 120
THALLIUM	-0.0052	0		80 - 120
VANADIUM	-0.0020	0		80 - 120
ZINC	0.0114	0		80 - 120

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type : ICSA
Analysis Date: 10/19/2015 9:22 AM
Analysis Time: 0922
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
SILVER	0.0003	0		80 - 120
ALUMINUM	502	500	100 %	80 - 120
ARSENIC	-0.0129	0		80 - 120
BORON	0.0002	0		80 - 120
BARIUM	0.0028	0		80 - 120
BERYLLIUM	0.0001	0		80 - 120
CALCIUM	492	500	98 %	80 - 120
CADMIUM	0.0007	0		80 - 120
COBALT	-0.0007	0		80 - 120
CHROMIUM	0.0017	0		80 - 120
COPPER	0.0082	0		80 - 120
IRON	195	200	98 %	80 - 120
POTASSIUM	0.0550	0		80 - 120
LITHIUM	0.0175	0		80 - 120
MAGNESIUM	480	0		80 - 120
MANGANESE	0.0038	0		80 - 120
MOLYBDENUM	0.0000	0		80 - 120
SODIUM	0.212	0		80 - 120
NICKEL	0.0116	0		80 - 120
LEAD	-0.0287	0		80 - 120
SULFUR	0.0096	0		80 - 120
ANTIMONY	0.0100	0		80 - 120
SELENIUM	0.0108	0		80 - 120
SILICON	-0.0045	0		80 - 120
TIN	0.0000	0		80 - 120
STRONTIUM	0.0061	0		80 - 120
TITANIUM	0.0214	0		80 - 120
THALLIUM	-0.0072	0		80 - 120
VANADIUM	0.0068	0		80 - 120
ZINC	0.0098	0		80 - 120

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type : ICSAB
Analysis Date: 10/19/2015 9:25 AM
Analysis Time: 0925
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.05	1.00	105 %	80 - 120
ALUMINUM	491	500	98 %	80 - 120
ARSENIC	0.483	0.500	97 %	80 - 120
BORON	0.925	1.00	92 %	80 - 120
BARIUM	0.468	0.500	94 %	80 - 120
BERYLLIUM	0.474	0.500	95 %	80 - 120
CALCIUM	480	500	96 %	80 - 120
CADMIUM	0.996	1.00	100 %	80 - 120
COBALT	0.491	0.500	98 %	80 - 120
CHROMIUM	0.445	0.500	89 %	80 - 120
COPPER	0.476	0.500	95 %	80 - 120
IRON	190	200	95 %	80 - 120
POTASSIUM	0.0300	0		80 - 120
LITHIUM	0.0188	0		80 - 120
MAGNESIUM	467	500	93 %	80 - 120
MANGANESE	0.453	0.500	91 %	80 - 120
MOLYBDENUM	0.458	0.500	92 %	80 - 120
SODIUM	0.201	0		80 - 120
NICKEL	0.987	1.00	99 %	80 - 120
LEAD	0.926	1.00	93 %	80 - 120
SULFUR	0.0084	0		80 - 120
ANTIMONY	0.496	0.500	99 %	80 - 120
SELENIUM	0.513	0.500	103 %	80 - 120
SILICON	0.898	1.00	90 %	80 - 120
TIN	0.416	0.500	83 %	80 - 120
STRONTIUM	0.0062	0		80 - 120
TITANIUM	0.487	0.500	97 %	80 - 120
THALLIUM	0.443	0.500	89 %	80 - 120
VANADIUM	0.460	0.500	92 %	80 - 120
ZINC	0.880	1.00	88 %	80 - 120

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Est. 1970

Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type : ICSA
Analysis Date: 10/19/2015 3:04 PM
Analysis Time: 1504
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
SILVER	0.0000	0		80 - 120
ALUMINUM	478	500	96 %	80 - 120
ARSENIC	-0.0121	0		80 - 120
BORON	0.0055	0		80 - 120
BARIUM	0.0027	0		80 - 120
BERYLLIUM	0.0001	0		80 - 120
CALCIUM	464	500	93 %	80 - 120
CADMIUM	0.0008	0		80 - 120
COBALT	-0.0010	0		80 - 120
CHROMIUM	0.0012	0		80 - 120
COPPER	0.0056	0		80 - 120
IRON	184	200	92 %	80 - 120
POTASSIUM	-0.0127	0		80 - 120
LITHIUM	0.0163	0		80 - 120
MAGNESIUM	437	500	87 %	80 - 120
MANGANESE	0.0036	0		80 - 120
MOLYBDENUM	0.0008	0		80 - 120
SODIUM	0.196	0		80 - 120
NICKEL	0.0128	0		80 - 120
LEAD	-0.0242	0		80 - 120
SULFUR	0.0093	0		80 - 120
ANTIMONY	0.0144	0		80 - 120
SELENIUM	0.0154	0		80 - 120
SILICON	-0.0051	0		80 - 120
TIN	0.0002	0		80 - 120
STRONTIUM	0.0063	0		80 - 120
TITANIUM	0.0224	0		80 - 120
THALLIUM	-0.0058	0		80 - 120
VANADIUM	0.0007	0		80 - 120
ZINC	0.0100	0		80 - 120

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type : ICSAB
Analysis Date: 10/19/2015 3:07 PM
Analysis Time: 1507
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.02	1.00	102 %	80 - 120
ALUMINUM	467	500	93 %	80 - 120
ARSENIC	0.489	0.500	98 %	80 - 120
BORON	0.881	1.00	88 %	80 - 120
BARIUM	0.472	0.500	94 %	80 - 120
BERYLLIUM	0.463	0.500	93 %	80 - 120
CALCIUM	457	500	91 %	80 - 120
CADMIUM	0.980	1.00	98 %	80 - 120
COBALT	0.473	0.500	95 %	80 - 120
CHROMIUM	0.415	0.500	83 %	80 - 120
COPPER	0.466	0.500	93 %	80 - 120
IRON	182	200	91 %	80 - 120
POTASSIUM	-0.0040	0		80 - 120
LITHIUM	0.0153	0		80 - 120
MAGNESIUM	427	500	85 %	80 - 120
MANGANESE	0.453	0.500	91 %	80 - 120
MOLYBDENUM	0.458	0.500	92 %	80 - 120
SODIUM	0.183	0		80 - 120
NICKEL	0.944	1.00	94 %	80 - 120
LEAD	0.879	1.00	88 %	80 - 120
SULFUR	0.0090	0		80 - 120
ANTIMONY	0.501	0.500	100 %	80 - 120
SELENIUM	0.516	0.500	103 %	80 - 120
SILICON	0.888	1.00	89 %	80 - 120
TIN	0.406	0.500	81 %	80 - 120
STRONTIUM	0.0063	0		80 - 120
TITANIUM	0.469	0.500	94 %	80 - 120
THALLIUM	0.430	0.500	86 %	80 - 120
VANADIUM	0.444	0.500	89 %	80 - 120
ZINC	0.856	1.00	86 %	80 - 120

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Instrument ID: ICP13 Method: ICP-AES Run Number: 101515ICP13

Laboratory Sample ID	Dil	Time	Analytes																													
			Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	V	Zn
CALBLK	1	0938	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD1 15I21316	1	0941	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD2 15G21064	1	0944		X	X	X	X		X		X	X	X	X	X	X		X	X	X		X		X		X		X	X	X	X	X
STD3 15H06986	1	0947		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X
STD4 15I21305	1	0949	X		X	X	X	X		X	X	X	X	X				X	X	X			X		X	X	X		X	X	X	X
STD5 15I21304	1	0952	X			X				X				X			X				X		X		X		X					
STD6 15I21386	1	0956	X							X				X			X				X				X		X					
STD7 15I21306	1	0959	X							X				X			X				X				X		X					
ICV	1	1002			X	X			X		X				X							X		X								
ICB	1	1005			X	X			X		X				X							X		X								
ICVLL	1	1008			X	X			X		X				X							X		X								
ICSA	1	1018	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB	1	1021	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV	1	1037			X	X			X		X				X							X		X								
CCB	1	1040			X	X			X		X				X							X		X								
CCVLL	1	1043			X	X			X		X				X							X		X								
CCV	1	1116			X	X			X		X				X							X		X								
CCB	1	1119			X	X			X		X				X							X		X								
CCV	1	1159			X	X			X		X				X							X		X								
CCB	1	1202			X	X			X		X				X							X		X								
CCV	1	1235			X	X			X		X				X							X		X								
CCB	1	1238			X	X			X		X				X							X		X								
CCV	1	1311			X	X			X		X				X							X		X								
CCB	1	1314			X	X			X		X				X							X		X								
CCV	1	1344			X	X			X		X				X							X		X								
CCB	1	1347			X	X			X		X				X							X		X								
CCV	1	1408			X	X			X		X				X							X		X								
CCB	1	1411			X	X			X		X				X							X		X								
CCV	1	1452			X	X			X		X				X							X		X								
CCB	1	1455			X	X			X		X				X							X		X								
CCV	1	1529			X	X			X		X				X							X		X								
CCB	1	1532			X	X			X		X				X							X		X								
CCV	1	1600			X	X			X		X				X							X		X								
CCB	1	1603			X	X			X		X				X							X		X								
BLANK WG821543	1	1606			X	X			X		X				X							X		X								
LCS WG821543	1	1609			X	X			X		X				X							X		X								
LCSD WG821543	1	1612			X	X			X		X				X							X		X								
L793892-06 WG821543	1	1615			X	X			X		X				X							X		X								
L793892-06SD WG821543	5	1618			X	X			X		X				X							X		X								
L793892-06MS WG821543	1	1621			X	X			X		X				X							X		X								

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Instrument ID: ICP13 Method: ICP-AES Run Number: 101515ICP13

Laboratory Sample ID	Dil	Time	Analytes																														
			Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	V	Zn
L793892-06MSD WG821543	1	1624			X	X			X		X				X							X		X								
L793892-01 WG821543	1	1627			X	X			X		X				X							X		X								
L793892-02 WG821543	1	1630			X	X			X		X				X							X		X								
L793892-03 WG821543	1	1633			X	X			X		X				X							X		X								
CCV	1	1636			X	X			X		X				X							X		X								
CCB	1	1639			X	X			X		X				X							X		X								
L793892-04 WG821543	1	1642			X	X			X		X				X							X		X								
L793892-05 WG821543	1	1645			X	X			X		X				X							X		X								
L793892-08 WG821543	1	1651			X	X			X		X				X							X		X								
L793892-09 WG821543	1	1654			X	X			X		X				X							X		X								
L793892-10 WG821543	1	1657			X	X			X		X				X							X		X								
L793892-11 WG821543	1	1701			X	X			X		X				X							X		X								
L793892-12 WG821543	1	1704			X	X			X		X				X							X		X								
L793892-13 WG821543	1	1707			X	X			X		X				X							X		X								
L793892-14 WG821543	1	1710			X	X			X		X				X							X		X								
CCV	1	1713			X	X			X		X				X							X		X								
CCB	1	1716			X	X			X		X				X							X		X								
CCV	1	1734			X	X			X		X				X							X		X								
CCB	1	1737			X	X			X		X				X							X		X								
CCVLL	1	1740			X	X			X		X				X							X		X								
CCV	1	1817			X	X			X		X				X							X		X								
CCB	1	1820			X	X			X		X				X							X		X								
CCV	1	1854			X	X			X		X				X							X		X								
CCB	1	1857			X	X			X		X				X							X		X								
CCV	1	1916			X	X			X		X				X							X		X								
CCB	1	1919			X	X			X		X				X							X		X								
CCVLL	1	1930			X	X			X		X				X							X		X								
ICSA	1	1933	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB	1	1936	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV	1	2037			X	X			X		X				X							X		X								
CCB	1	2041			X	X			X		X				X							X		X								
CCV	1	2056			X	X			X		X				X							X		X								
CCB	1	2059			X	X			X		X				X							X		X								
CALBLK	1	2137	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD1 15I21316	1	2141	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD2 15G21064	1	2144		X	X	X	X		X		X	X	X	X	X	X		X	X	X		X		X		X		X	X	X	X	X	X
STD3 15H06986	1	2146		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X	X
STD4 15I21305	1	2149	X		X	X	X	X		X	X	X	X	X				X	X	X			X		X	X	X		X	X	X	X	X
STD5 15I21304	1	2152	X			X				X				X			X				X		X		X		X						
STD6 15I21386	1	2156	X							X				X			X				X				X		X						

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Instrument ID: ICP13 Method: ICP-AES Run Number: 101515ICP13

Laboratory Sample ID	Dil	Time	Analytes																														
			Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	V	Zn
STD7 15I21306	1	2159	X							X				X			X				X				X		X					
CCV	1	2236			X	X			X		X				X							X		X								
CCB	1	2240			X	X			X		X				X							X		X								
CCVLL	1	2243			X	X			X		X				X							X		X								
CCV	1	2316			X	X			X		X				X							X		X								
CCB	1	2319			X	X			X		X				X							X		X								
CCV	1	2353			X	X			X						X							X										
CCB	1	2356			X	X			X		X				X							X		X								
CCV	1	0023			X	X			X		X				X							X		X								
CCB	1	0026			X	X			X		X				X							X		X								
CCV	1	0059			X	X			X		X				X							X		X								
CCB	1	0102			X	X			X		X				X							X		X								
CCV	1	0136			X	X			X		X				X							X		X								
CCB	1	0139			X	X			X		X				X							X		X								
CCV	1	0206			X	X			X		X				X							X		X								
CCB	1	0209			X	X			X		X				X							X		X								
CCV	1	0242			X	X			X		X				X							X		X								
CCB	1	0245			X	X			X		X				X							X		X								
CCV	1	0319			X	X			X		X				X							X		X								
CCB	1	0323			X	X			X		X				X							X		X								
CCV	1	0355			X	X			X		X				X							X		X								
CCB	1	0358			X	X			X		X				X							X		X								
CCV	1	0432			X	X			X		X				X							X		X								
CCB	1	0435			X	X			X		X				X							X		X								
CCV	1	0509			X	X			X		X				X							X		X								
CCB	1	0512			X	X			X		X				X							X		X								
CCV	1	0546			X	X			X		X				X							X		X								
CCB	1	0549			X	X			X		X				X							X		X								
CCV	1	0618			X	X			X		X				X							X		X								
CCB	1	0622			X	X			X		X				X							X		X								
CCVLL	1	0625			X	X			X		X				X							X		X								
ICSA	1	0628	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Instrument ID: ICP13 Method: ICP-AES Run Number: 101915ICP13

Laboratory Sample ID	Dil	Time	Analytes																													
			Al	Sb	As	Ba	Be	B	Cd	Ca	Cr	Co	Cu	Fe	Pb	Li	Mg	Mn	Mo	Ni	K	Se	Si	Ag	Na	Sr	S	Tl	Sn	Ti	V	Zn
CALBLK	1	0839	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD1 15I21316	1	0842	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
STD2 15G21064	1	0845		X	X	X	X		X		X	X	X	X	X	X		X	X	X		X		X		X		X	X	X	X	X
STD3 15H06986	1	0848		X	X	X	X	X	X	X	X	X	X	X	X	X		X	X	X		X	X	X	X	X	X	X	X	X	X	X
STD4 15I21305	1	0851	X		X	X	X	X		X	X	X	X	X				X	X	X			X		X	X	X		X	X	X	X
STD5 15I21304	1	0854	X			X			X					X			X				X		X		X		X					
STD8	1	0857	X						X								X								X							
STD9	1	0900												X							X						X					
STD10	1	0903	X						X																							
STD11	1	0906															X								X							
STD12	1	0910												X							X						X					
ICV	1	0912			X	X			X		X				X							X		X								
ICB	1	0915			X	X			X		X				X							X		X								
ICVLL	1	0919			X	X			X		X				X							X		X								
ICSA	1	0922	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB	1	0925	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CCV	1	1018			X	X			X		X				X							X		X								
CCB	1	1021			X	X			X		X				X							X		X								
CCV	1	1053			X	X			X		X				X							X		X								
CCB	1	1056			X	X			X		X				X							X		X								
L793892-07 WG821543	1	1105			X	X			X		X				X							X		X								
CCV	1	1108			X	X			X		X				X							X		X								
CCB	1	1111			X	X			X		X				X							X		X								
CCV	1	1144			X	X			X		X				X							X		X								
CCB	1	1147			X	X			X		X				X							X		X								
CCV	1	1153			X	X			X		X				X							X		X								
CCB	1	1156			X	X			X		X				X							X		X								
CCV	1	1241			X	X			X		X				X							X		X								
CCB	1	1244			X	X			X		X				X							X		X								
CCV	1	1316			X	X			X		X				X							X		X								
CCB	1	1319			X	X			X		X				X							X		X								
CCV	1	1352			X	X			X		X				X							X		X								
CCB	1	1355			X	X			X		X				X							X		X								
CCV	1	1419			X	X			X		X				X							X		X								
CCB	1	1422			X	X			X		X				X							X		X								
CCVLL	1	1425			X	X			X		X				X							X		X								
ICSA	1	1504	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ICSAB	1	1507	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Raw Data

3015A GW/SPLP ICP Metals Prep Benchsheet

Batch #: WG821543

Prep Start Date/Time: 10/14/15 20:35 **Analyst:** LD704 **Analyst Verified pH:** 704 **Leachate Fluid Type:** N/A **Vessel ESC Lot ID:** ESC32270 **Pipette ID:** F13412591 **Carousel ID:** 8 **Microwave ID:** MD9972

Dig. Start Date/Time: 10/14/15 21:50:40 **Prep End Date/Time:** 10/14/15 21:43 **SOP:** 340704 **Method:** 3015

Nitric Acid: 15I04605 Amt. Used: 3 mL Exp. Date:03/04/16 **Hydrochloric Acid:** 15J08321 Amt. Used: 2 mL Exp. Date:04/08/16 **High Spike:** 15I29835 Amt. Used: 0.45 mL Exp. Date:03/29/16

Sample Number	Qualifiers	Initial Sample Vol (mL)	Final Volume (mL)	Sample Description	Intial pH	Sample Comments
BLANK		45	50	NANOPURE	7	
LCS		45	50	NANOPURE	7	
LCSD		45	50	NANOPURE	7	
MS(L793892-06)		45	50	CLEAR	2	
MSD(L793892-06)		45	50	CLEAR	2	
1. L793892-01		45	50	CLEAR	2	
2. L793892-02		45	50	CLOUDY	2	
3. L793892-03		45	50	CLEAR	2	
4. L793892-04		45	50	CLEAR	2	
5. L793892-05		45	50	CLEAR	2	
6. L793892-06		45	50	CLEAR	2	MS/MSD
7. L793892-07		45	50	CLOUDY	2	
8. L793892-08		45	50	CLOUDY	2	
9. L793892-09		45	50	CLEAR	2	
10. L793892-10		45	50	CLEAR	2	
11. L793892-11		45	50	CLEAR	2	
12. L793892-12		45	50	CLEAR	2	
13. L793892-13		45	50	CLEAR	2	
14. L793892-14		45	50	CLEAR	2	-15 removed per JR. TD 10/13
15. L793918-01		45	50	CLEAR	2	
16. L793918-02		45	50	CLOUDY BEIGE	2	
17. L793918-03		45	50	CLEAR	2	
18. L793919-01		45	50	ORANGE	2	V8260: redo 51,79 @ 100x
19. L793919-02		45	50	ORANGE	2	V8260: redo 51 c/o @ 1x

Comments:

Reviewed By:LD704 on 10/14/15 21:45:57

Comprehensive sample report

10/26/2015 1:12:18 PM

LabBook 101515ICP13.imexp

Instrument
Serial number IC74DC143804

LabBook summary

Acquired by icp13 Date 10/16/2015 6:15:53 AM
Last changed by icp13 Date 10/17/2015 4:11:49 PM

Configuration iCAP 7000 ESI SC-4DX
Template
Evaluation eQuant
Number of samples 394
Number of results 376

Method parameters

View Direction	Radial	Axial
UV Exposure Time	15	15
UV RF Power	1150	1150
UV Neb Gas Flow	0.58	0.58
VIS Exposure Time	5	5
VIS RF Power	1150	1150
VIS Neb Gas Flow	0.58	0.58
Cool Gas Flow Rate	12	12
Aux Gas Flow Rate	0.5	0.5

Symbol	Wavelength (nm) / Order	Measure Mode	Internal Standard
As	189.042 {478}	Axial	Y 224.306 {450} (Axial)
Ba	233.527 {445}	Axial	Y 224.306 {450} (Axial)
Cd	228.802 {447}	Axial	Y 224.306 {450} (Axial)
Cr	267.716 {126}	Axial	Y 360.073 {94} (Axial)
Pb	220.353 {453}	Axial	In 230.606 {446} (Axial)
Se	196.090 {472}	Axial	Y 224.306 {450} (Axial)
Ag	328.068 {103}	Axial	Y 360.073 {94} (Axial)
Cu	324.754 {104}	Radial	Y 360.073 {94} (Radial)
Ni	231.604 {446}	Axial	In 230.606 {446} (Axial)
Zn	206.200 {463}	Axial	Y 224.306 {450} (Axial)
Al	308.215 {109}	Radial	Y 360.073 {94} (Radial)
Fe	259.940 {130}	Radial	Y 360.073 {94} (Radial)
Fe	271.441 {124}	Radial	Y 360.073 {94} (Radial)
Li	670.784 {50}	Radial	Y 360.073 {94} (Radial)
Ca	317.933 {106}	Radial	Y 360.073 {94} (Radial)
Ca	373.690 {90}	Radial	Y 360.073 {94} (Radial)
Mg	279.079 {121}	Radial	Y 360.073 {94} (Radial)
K	766.490 {44}	Radial	Y 360.073 {94} (Radial)
Na	589.592 {57}	Radial	Y 360.073 {94} (Radial)
Na	818.326 {41}	Radial	Y 360.073 {94} (Radial)
Sb	206.833 {463}	Axial	Y 224.306 {450} (Axial)
Be	313.042 {108}	Radial	Y 360.073 {94} (Radial)
Co	228.616 {447}	Axial	In 230.606 {446} (Axial)
Tl	190.856 {477}	Axial	In 230.606 {446} (Axial)
Mn	257.610 {131}	Axial	Y 360.073 {94} (Axial)
V	292.402 {115}	Radial	Y 360.073 {94} (Radial)
Ti	334.941 {101}	Radial	Y 360.073 {94} (Radial)
Mo	202.030 {467}	Axial	Y 224.306 {450} (Axial)

Comprehensive sample report

10/26/2015 1:12:18 PM

QTEGRA

Symbol	Wavelength (nm) / Order	Measure Mode	Internal Standard
B	249.678 {135}	Radial	Y 360.073 {94} (Radial)
Sr	421.552 {80}	Radial	Y 360.073 {94} (Radial)
Si	251.611 {134}	Axial	Y 360.073 {94} (Axial)
Sn	189.989 {477}	Axial	Y 224.306 {450} (Axial)
S	182.034 {485}	Axial	Y 224.306 {450} (Axial)
In	230.606 {446}	Axial	
Y	360.073 {94}	Radial	
Y	360.073 {94}	Axial	
Y	224.306 {450}	Axial	
Ce	535.353 {63}	Radial	

Symbol	Wavelength (nm) / Order	Peak X Location	Peak Y Location	Width	Height	Center region position	Center region width
As	189.042 {478}	175.5	252.73	13	5	6	3
Ba	233.527 {445}	505.92	9.25	13	5	6	2
Cd	228.802 {447}	175.45	25.7	13	5	6	2
Cr	267.716 {126}	308.41	238.31	13	2	6	2
Pb	220.353 {453}	289.05	59.93	13	5	6	3
Se	196.090 {472}	288.69	196.89	13	5	6	3
Ag	328.068 {103}	394.24	150.59	13	2	7	2
Cu	324.754 {104}	370.069	154.033	13	2	7	2
Ni	231.604 {446}	436.2	15.74	13	5	6	3
Zn	206.200 {463}	139.09	131.17	13	5	6	3
Al	308.215 {109}	113.35	173	13	2	6	2
Fe	259.940 {130}	395.43	255.29	13	2	6	2
Fe	271.441 {124}	202.85	230.85	13	2	7	2
Li	670.784 {50}	35.95	28.75	13	2	6	3
Ca	317.933 {106}	263.778	161.435	13	2	7	2
Ca	373.690 {90}	165.84	112.8	13	2	7	2
Mg	279.079 {121}	361.13	216.5	13	2	7	2
K	766.490 {44}	300.912	18.544	13	2	7	2
Na	589.592 {57}	130.84	40.31	13	2	6	3
Na	818.326 {41}	53.24	14.12	13	2	7	2
Sb	206.833 {463}	286.65	127.37	13	5	6	3
Be	313.042 {108}	419.7	167.11	13	2	6	3
Co	228.616 {447}	136.6	26.44	13	5	6	2
Tl	190.856 {477}	365.77	237.28	13	5	7	2
Mn	257.610 {131}	329.688	260.808	13	2	6	3
V	292.402 {115}	156.82	194.75	13	2	6	3
Ti	334.941 {101}	449.93	143.89	13	2	7	2
Mo	202.030 {467}	322.29	156.22	13	5	6	2
B	249.678 {135}	271.32	280.78	13	2	6	2
Sr	421.552 {80}	297.98	86.68	13	2	7	2
Si	251.611 {134}	284.78	275.67	13	2	6	3
Sn	189.989 {477}	145.28	244.74	13	5	7	2
S	182.034 {485}	212.2	318.95	13	5	7	2
In	230.606 {446}	225.03	18.98	13	5	6	3
Y	360.073 {94}	476.33	122.83	13	2	6	2
Y	360.073 {94}	476.33	122.83	13	2	6	2
Y	224.306 {450}	191.95	43.26	13	5	7	2
Ce	535.353 {63}	302.93	50.82	13	2	6	3

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Symbol	Wavelength (nm) / Order	Left Bkg	Location	Width	Right Bkg	Location	Width
As	189.042 {478}	None			Fixed	13	1
Ba	233.527 {445}	None			Fixed	13	1
Cd	228.802 {447}	None			Fixed	13	1
Cr	267.716 {126}	None			Fixed	13	1
Pb	220.353 {453}	Fixed	1	1	Fixed	13	1
Se	196.090 {472}	Fixed	1	1	None		
Ag	328.068 {103}	Fixed	3	1	None		
Cu	324.754 {104}	None			Fixed	13	1
Ni	231.604 {446}	Fixed	1	1	Fixed	13	1
Zn	206.200 {463}	Fixed	1	1	Fixed	13	1
Al	308.215 {109}	Fixed	1	1	None		
Fe	259.940 {130}	Fixed	1	1	Fixed	13	1
Fe	271.441 {124}	Fixed	1	1	Fixed	13	1
Li	670.784 {50}	Fixed	1	1	Fixed	13	1
Ca	317.933 {106}	Fixed	1	1	Fixed	13	1
Ca	373.690 {90}	Fixed	1	1	Fixed	13	1
Mg	279.079 {121}	Fixed	1	1	Fixed	13	1
K	766.490 {44}	Fixed	1	1	Fixed	13	1
Na	589.592 {57}	Fixed	1	1	Fixed	13	1
Na	818.326 {41}	Fixed	1	1	Fixed	13	1
Sb	206.833 {463}	Fixed	1	1	Fixed	13	1
Be	313.042 {108}	Fixed	1	1	Fixed	13	1
Co	228.616 {447}	Fixed	1	1	Fixed	13	1
Tl	190.856 {477}	Fixed	4	1	None		
Mn	257.610 {131}	None			Fixed	13	1
V	292.402 {115}	Fixed	1	1	Fixed	13	1
Ti	334.941 {101}	None			Fixed	13	1
Mo	202.030 {467}	Fixed	1	1	Fixed	13	1
B	249.678 {135}	None			Fixed	13	1
Sr	421.552 {80}	Fixed	1	1	Fixed	13	1
Si	251.611 {134}	Fixed	1	1	Fixed	13	1
Sn	189.989 {477}	Fixed	1	1	Fixed	13	1
S	182.034 {485}	None			Fixed	13	1
In	230.606 {446}	Fixed	1	1	Fixed	13	1
Y	360.073 {94}	Fixed	1	1	Fixed	13	1
Y	360.073 {94}	Fixed	1	1	Fixed	13	1
Y	224.306 {450}	Fixed	1	1	Fixed	13	1
Ce	535.353 {63}	Fixed	1	1	Fixed	13	1

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Calibration details

	STD1 15I21316	STD2 15G21064	STD3 15H06986
As 189.042 {478} (Axial)	0.0100 ppm	0.5000 ppm	1.0000 ppm
Ba 233.527 {445} (Axial)	0.0050 ppm	0.5000 ppm	1.0000 ppm
Cd 228.802 {447} (Axial)	0.0020 ppm	0.5000 ppm	1.0000 ppm
Cr 267.716 {126} (Axial)	0.0100 ppm	0.5000 ppm	1.0000 ppm
Pb 220.353 {453} (Axial)	0.0050 ppm	0.5000 ppm	1.0000 ppm
Se 196.090 {472} (Axial)	0.0100 ppm	0.5000 ppm	1.0000 ppm
Ag 328.068 {103} (Axial)	0.0050 ppm	0.5000 ppm	1.0000 ppm
Cu 324.754 {104} (Radial)	0.0100 ppm	0.5000 ppm	1.0000 ppm
Ni 231.604 {446} (Axial)	0.0100 ppm	0.5000 ppm	1.0000 ppm
Zn 206.200 {463} (Axial)	0.0500 ppm	0.5000 ppm	1.0000 ppm
Al 308.215 {109} (Radial)	0.2000 ppm	N/A	N/A
Fe 259.940 {130} (Radial)	0.1000 ppm	0.5000 ppm	1.0000 ppm
Fe 271.441 {124} (Radial)	N/A	N/A	N/A
Li 670.784 {50} (Radial)	0.0150 ppm	0.5000 ppm	1.0000 ppm
Ca 317.933 {106} (Radial)	1.0000 ppm	N/A	1.0000 ppm
Ca 373.690 {90} (Radial)	N/A	N/A	N/A
Mg 279.079 {121} (Radial)	1.0000 ppm	N/A	N/A
K 766.490 {44} (Radial)	1.0000 ppm	N/A	N/A
Na 589.592 {57} (Radial)	1.0000 ppm	N/A	1.0000 ppm
Na 818.326 {41} (Radial)	N/A	N/A	N/A
Sb 206.833 {463} (Axial)	0.0100 ppm	0.5000 ppm	1.0000 ppm
Be 313.042 {108} (Radial)	0.0020 ppm	0.5000 ppm	1.0000 ppm
Co 228.616 {447} (Axial)	0.0100 ppm	0.5000 ppm	1.0000 ppm
Tl 190.856 {477} (Axial)	0.0100 ppm	0.5000 ppm	1.0000 ppm
Mn 257.610 {131} (Axial)	0.0100 ppm	0.5000 ppm	1.0000 ppm
V 292.402 {115} (Radial)	0.0200 ppm	0.5000 ppm	1.0000 ppm
Ti 334.941 {101} (Radial)	0.0500 ppm	0.5000 ppm	1.0000 ppm
Mo 202.030 {467} (Axial)	0.0050 ppm	0.5000 ppm	1.0000 ppm
B 249.678 {135} (Radial)	0.0500 ppm	N/A	1.0000 ppm
Sr 421.552 {80} (Radial)	0.0100 ppm	0.5000 ppm	1.0000 ppm
Si 251.611 {134} (Axial)	0.0500 ppm	N/A	1.0000 ppm
Sn 189.989 {477} (Axial)	0.0500 ppm	0.5000 ppm	1.0000 ppm
S 182.034 {485} (Axial)	1.0000 ppm	N/A	1.0000 ppm
Ce 535.353 {63} (Radial)	N/A	N/A	N/A

	STD4 15I21305	STD5 15I21304	STD6 15I21386
As 189.042 {478} (Axial)	2.0000 ppm	N/A	N/A
Ba 233.527 {445} (Axial)	2.0000 ppm	10.0000 ppm	N/A
Cd 228.802 {447} (Axial)	N/A	N/A	N/A
Cr 267.716 {126} (Axial)	2.0000 ppm	N/A	N/A
Pb 220.353 {453} (Axial)	N/A	N/A	N/A
Se 196.090 {472} (Axial)	N/A	N/A	N/A
Ag 328.068 {103} (Axial)	N/A	N/A	N/A
Cu 324.754 {104} (Radial)	2.0000 ppm	N/A	N/A
Ni 231.604 {446} (Axial)	2.0000 ppm	N/A	N/A
Zn 206.200 {463} (Axial)	2.0000 ppm	N/A	N/A
Al 308.215 {109} (Radial)	2.0000 ppm	10.0000 ppm	250.0000 ppm
Fe 259.940 {130} (Radial)	2.0000 ppm	10.0000 ppm	N/A
Fe 271.441 {124} (Radial)	N/A	10.0000 ppm	100.0000 ppm
Li 670.784 {50} (Radial)	N/A	N/A	N/A
Ca 317.933 {106} (Radial)	2.0000 ppm	10.0000 ppm	N/A
Ca 373.690 {90} (Radial)	N/A	10.0000 ppm	250.0000 ppm
Mg 279.079 {121} (Radial)	N/A	10.0000 ppm	250.0000 ppm
K 766.490 {44} (Radial)	N/A	10.0000 ppm	50.0000 ppm

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	STD4 15I21305	STD5 15I21304	STD6 15I21386
Na 589.592 {57} (Radial)	2.0000 ppm	10.0000 ppm	N/A
Na 818.326 {41} (Radial)	N/A	10.0000 ppm	250.0000 ppm
Sb 206.833 {463} (Axial)	N/A	N/A	N/A
Be 313.042 {108} (Radial)	2.0000 ppm	N/A	N/A
Co 228.616 {447} (Axial)	2.0000 ppm	N/A	N/A
Tl 190.856 {477} (Axial)	N/A	N/A	N/A
Mn 257.610 {131} (Axial)	2.0000 ppm	N/A	N/A
V 292.402 {115} (Radial)	2.0000 ppm	N/A	N/A
Ti 334.941 {101} (Radial)	2.0000 ppm	N/A	N/A
Mo 202.030 {467} (Axial)	2.0000 ppm	N/A	N/A
B 249.678 {135} (Radial)	2.0000 ppm	N/A	N/A
Sr 421.552 {80} (Radial)	2.0000 ppm	N/A	N/A
Si 251.611 {134} (Axial)	2.0000 ppm	10.0000 ppm	N/A
Sn 189.989 {477} (Axial)	2.0000 ppm	N/A	N/A
S 182.034 {485} (Axial)	2.0000 ppm	10.0000 ppm	50.0000 ppm
Ce 535.353 {63} (Radial)	N/A	N/A	10.0000 ppm

	STD7 15I21306	STD1 15I21316	STD2 15G21064
As 189.042 {478} (Axial)	N/A	0.0100 ppm	0.5000 ppm
Ba 233.527 {445} (Axial)	N/A	0.0050 ppm	0.5000 ppm
Cd 228.802 {447} (Axial)	N/A	0.0020 ppm	0.5000 ppm
Cr 267.716 {126} (Axial)	N/A	0.0100 ppm	0.5000 ppm
Pb 220.353 {453} (Axial)	N/A	0.0050 ppm	0.5000 ppm
Se 196.090 {472} (Axial)	N/A	0.0100 ppm	0.5000 ppm
Ag 328.068 {103} (Axial)	N/A	0.0050 ppm	0.5000 ppm
Cu 324.754 {104} (Radial)	N/A	0.0100 ppm	0.5000 ppm
Ni 231.604 {446} (Axial)	N/A	0.0100 ppm	0.5000 ppm
Zn 206.200 {463} (Axial)	N/A	0.0500 ppm	0.5000 ppm
Al 308.215 {109} (Radial)	500.0000 ppm	0.2000 ppm	N/A
Fe 259.940 {130} (Radial)	N/A	0.1000 ppm	0.5000 ppm
Fe 271.441 {124} (Radial)	200.0000 ppm	N/A	N/A
Li 670.784 {50} (Radial)	N/A	0.0150 ppm	0.5000 ppm
Ca 317.933 {106} (Radial)	N/A	1.0000 ppm	N/A
Ca 373.690 {90} (Radial)	500.0000 ppm	N/A	N/A
Mg 279.079 {121} (Radial)	500.0000 ppm	1.0000 ppm	N/A
K 766.490 {44} (Radial)	100.0000 ppm	1.0000 ppm	N/A
Na 589.592 {57} (Radial)	N/A	1.0000 ppm	N/A
Na 818.326 {41} (Radial)	500.0000 ppm	N/A	N/A
Sb 206.833 {463} (Axial)	N/A	0.0100 ppm	0.5000 ppm
Be 313.042 {108} (Radial)	N/A	0.0020 ppm	0.5000 ppm
Co 228.616 {447} (Axial)	N/A	0.0100 ppm	0.5000 ppm
Tl 190.856 {477} (Axial)	N/A	0.0100 ppm	0.5000 ppm
Mn 257.610 {131} (Axial)	N/A	0.0100 ppm	0.5000 ppm
V 292.402 {115} (Radial)	N/A	0.0200 ppm	0.5000 ppm
Ti 334.941 {101} (Radial)	N/A	0.0500 ppm	0.5000 ppm
Mo 202.030 {467} (Axial)	N/A	0.0050 ppm	0.5000 ppm
B 249.678 {135} (Radial)	N/A	0.0500 ppm	N/A
Sr 421.552 {80} (Radial)	N/A	0.0100 ppm	0.5000 ppm
Si 251.611 {134} (Axial)	N/A	0.0500 ppm	N/A
Sn 189.989 {477} (Axial)	N/A	0.0500 ppm	0.5000 ppm
S 182.034 {485} (Axial)	100.0000 ppm	1.0000 ppm	N/A
Ce 535.353 {63} (Radial)	N/A	N/A	N/A

	STD3 15H06986	STD4 15I21305	STD5 15I21304
As 189.042 {478} (Axial)	1.0000 ppm	2.0000 ppm	N/A

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	STD3 15H06986	STD4 15I21305	STD5 15I21304
Ba 233.527 {445} (Axial)	1.0000 ppm	2.0000 ppm	10.0000 ppm
Cd 228.802 {447} (Axial)	1.0000 ppm	N/A	N/A
Cr 267.716 {126} (Axial)	1.0000 ppm	2.0000 ppm	N/A
Pb 220.353 {453} (Axial)	1.0000 ppm	N/A	N/A
Se 196.090 {472} (Axial)	1.0000 ppm	N/A	N/A
Ag 328.068 {103} (Axial)	1.0000 ppm	N/A	N/A
Cu 324.754 {104} (Radial)	1.0000 ppm	2.0000 ppm	N/A
Ni 231.604 {446} (Axial)	1.0000 ppm	2.0000 ppm	N/A
Zn 206.200 {463} (Axial)	1.0000 ppm	2.0000 ppm	N/A
Al 308.215 {109} (Radial)	N/A	2.0000 ppm	10.0000 ppm
Fe 259.940 {130} (Radial)	1.0000 ppm	2.0000 ppm	10.0000 ppm
Fe 271.441 {124} (Radial)	N/A	N/A	10.0000 ppm
Li 670.784 {50} (Radial)	1.0000 ppm	N/A	N/A
Ca 317.933 {106} (Radial)	1.0000 ppm	2.0000 ppm	10.0000 ppm
Ca 373.690 {90} (Radial)	N/A	N/A	10.0000 ppm
Mg 279.079 {121} (Radial)	N/A	N/A	10.0000 ppm
K 766.490 {44} (Radial)	N/A	N/A	10.0000 ppm
Na 589.592 {57} (Radial)	1.0000 ppm	2.0000 ppm	10.0000 ppm
Na 818.326 {41} (Radial)	N/A	N/A	10.0000 ppm
Sb 206.833 {463} (Axial)	1.0000 ppm	N/A	N/A
Be 313.042 {108} (Radial)	1.0000 ppm	2.0000 ppm	N/A
Co 228.616 {447} (Axial)	1.0000 ppm	2.0000 ppm	N/A
Tl 190.856 {477} (Axial)	1.0000 ppm	N/A	N/A
Mn 257.610 {131} (Axial)	1.0000 ppm	2.0000 ppm	N/A
V 292.402 {115} (Radial)	1.0000 ppm	2.0000 ppm	N/A
Ti 334.941 {101} (Radial)	1.0000 ppm	2.0000 ppm	N/A
Mo 202.030 {467} (Axial)	1.0000 ppm	2.0000 ppm	N/A
B 249.678 {135} (Radial)	1.0000 ppm	2.0000 ppm	N/A
Sr 421.552 {80} (Radial)	1.0000 ppm	2.0000 ppm	N/A
Si 251.611 {134} (Axial)	1.0000 ppm	2.0000 ppm	10.0000 ppm
Sn 189.989 {477} (Axial)	1.0000 ppm	2.0000 ppm	N/A
S 182.034 {485} (Axial)	1.0000 ppm	2.0000 ppm	10.0000 ppm
Ce 535.353 {63} (Radial)	N/A	N/A	N/A

	STD6 15I21386	STD7 15I21306
As 189.042 {478} (Axial)	N/A	N/A
Ba 233.527 {445} (Axial)	N/A	N/A
Cd 228.802 {447} (Axial)	N/A	N/A
Cr 267.716 {126} (Axial)	N/A	N/A
Pb 220.353 {453} (Axial)	N/A	N/A
Se 196.090 {472} (Axial)	N/A	N/A
Ag 328.068 {103} (Axial)	N/A	N/A
Cu 324.754 {104} (Radial)	N/A	N/A
Ni 231.604 {446} (Axial)	N/A	N/A
Zn 206.200 {463} (Axial)	N/A	N/A
Al 308.215 {109} (Radial)	250.0000 ppm	500.0000 ppm
Fe 259.940 {130} (Radial)	N/A	N/A
Fe 271.441 {124} (Radial)	100.0000 ppm	200.0000 ppm
Li 670.784 {50} (Radial)	N/A	N/A
Ca 317.933 {106} (Radial)	N/A	N/A
Ca 373.690 {90} (Radial)	250.0000 ppm	500.0000 ppm
Mg 279.079 {121} (Radial)	250.0000 ppm	500.0000 ppm
K 766.490 {44} (Radial)	50.0000 ppm	100.0000 ppm
Na 589.592 {57} (Radial)	N/A	N/A
Na 818.326 {41} (Radial)	250.0000 ppm	500.0000 ppm

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	STD6 15I21386	STD7 15I21306
Sb 206.833 {463} (Axial)	N/A	N/A
Be 313.042 {108} (Radial)	N/A	N/A
Co 228.616 {447} (Axial)	N/A	N/A
Tl 190.856 {477} (Axial)	N/A	N/A
Mn 257.610 {131} (Axial)	N/A	N/A
V 292.402 {115} (Radial)	N/A	N/A
Ti 334.941 {101} (Radial)	N/A	N/A
Mo 202.030 {467} (Axial)	N/A	N/A
B 249.678 {135} (Radial)	N/A	N/A
Sr 421.552 {80} (Radial)	N/A	N/A
Si 251.611 {134} (Axial)	N/A	N/A
Sn 189.989 {477} (Axial)	N/A	N/A
S 182.034 {485} (Axial)	50.0000 ppm	100.0000 ppm
Ce 535.353 {63} (Radial)	10.0000 ppm	N/A

Symbol	Wavelength (nm) / Order	Fit Type	Weighting	Forcing
As	189.042 {478}	Linear	None	Blank
Ba	233.527 {445}	Linear	None	Blank
Cd	228.802 {447}	Linear	None	Blank
Cr	267.716 {126}	Linear	None	Blank
Pb	220.353 {453}	Linear	None	Blank
Se	196.090 {472}	Linear	None	Blank
Ag	328.068 {103}	Linear	None	Blank
Cu	324.754 {104}	Linear	None	Blank
Ni	231.604 {446}	Linear	None	Blank
Zn	206.200 {463}	Linear	None	Blank
Al	308.215 {109}	Linear	None	Blank
Fe	259.940 {130}	Linear	None	Blank
Fe	271.441 {124}	Linear	None	Blank
Li	670.784 {50}	Linear	None	Blank
Ca	317.933 {106}	Linear	None	Blank
Ca	373.690 {90}	Linear	None	Blank
Mg	279.079 {121}	Linear	None	Blank
K	766.490 {44}	Linear	None	Blank
Na	589.592 {57}	Linear	None	Blank
Na	818.326 {41}	Linear	None	Blank
Sb	206.833 {463}	Linear	None	Blank
Be	313.042 {108}	Linear	None	Blank
Co	228.616 {447}	Linear	None	Blank
Tl	190.856 {477}	Linear	None	Blank
Mn	257.610 {131}	Linear	None	Blank
V	292.402 {115}	Linear	None	Blank
Ti	334.941 {101}	Linear	None	Blank
Mo	202.030 {467}	Linear	None	Blank
B	249.678 {135}	Linear	None	Blank
Sr	421.552 {80}	Linear	None	Blank
Si	251.611 {134}	Linear	None	Blank
Sn	189.989 {477}	Linear	None	Blank
S	182.034 {485}	Linear	None	Blank
In	230.606 {446}	Linear	None	Blank
Y	360.073 {94}	Linear	None	Blank
Y	360.073 {94}	Linear	None	Blank
Y	224.306 {450}	Linear	None	Blank
Ce	535.353 {63}	Linear	None	Blank

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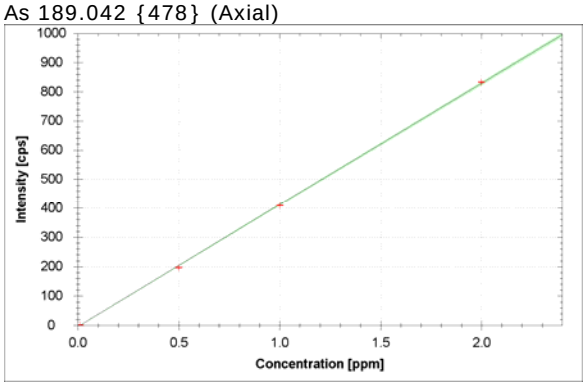
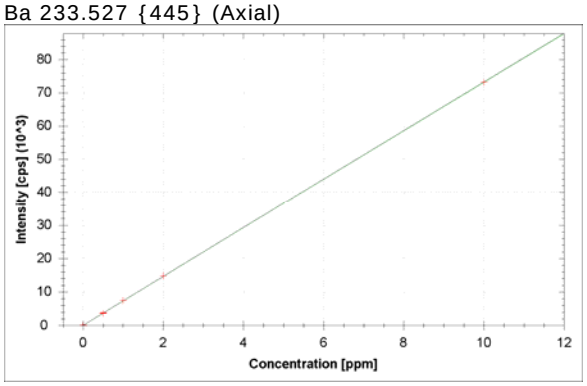
As 189.042 {478} (Axial)



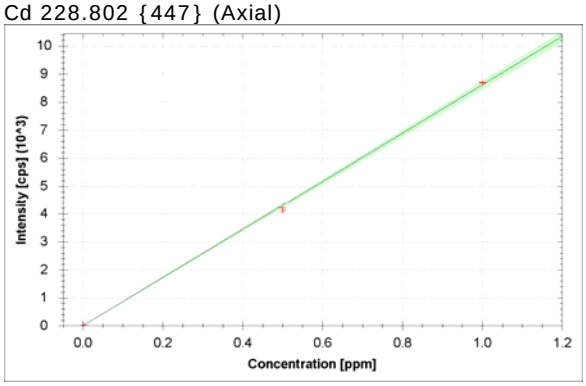
f(x) = 416.4819*x + -4.0068
R^2 = 0.9998
BEC = -0.010 ppm
LoD = 0.0028 ppm

Ba 233.527 {445} (Axial)



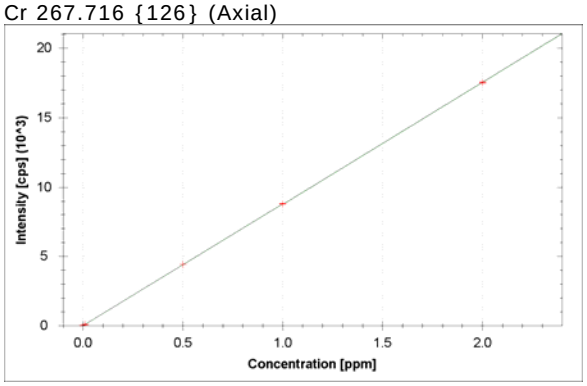
f(x) = 7321.3968*x + 3.3186
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0005 ppm

Cd 228.802 {447} (Axial)



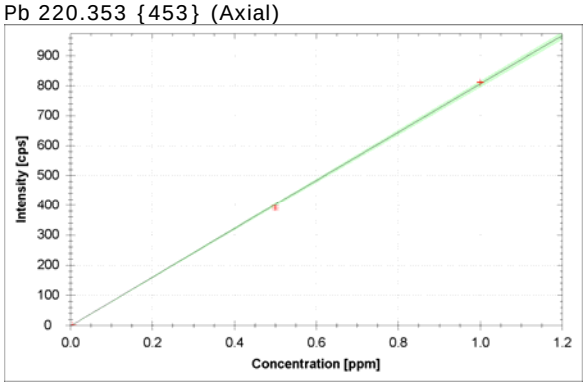
f(x) = 8612.5995*x + 1.5900
R^2 = 0.9994
BEC = 0.000 ppm
LoD = 0.0001 ppm

Cr 267.716 {126} (Axial)



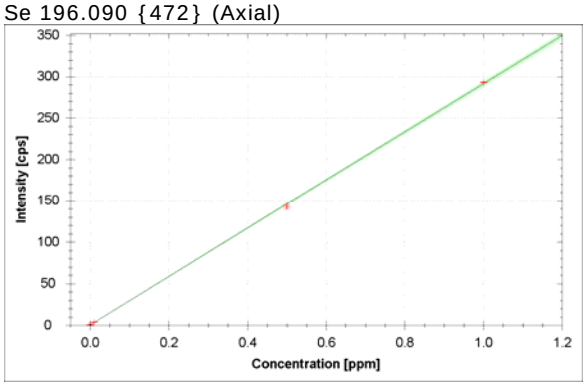
f(x) = 8763.9907*x + 6.8209
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0013 ppm

Pb 220.353 {453} (Axial)



f(x) = 807.5617*x + -1.8226
R^2 = 0.9997
BEC = -0.002 ppm
LoD = 0.0014 ppm

Se 196.090 {472} (Axial)



f(x) = 291.1150*x + 0.4742
R^2 = 0.9997
BEC = 0.002 ppm
LoD = 0.0085 ppm

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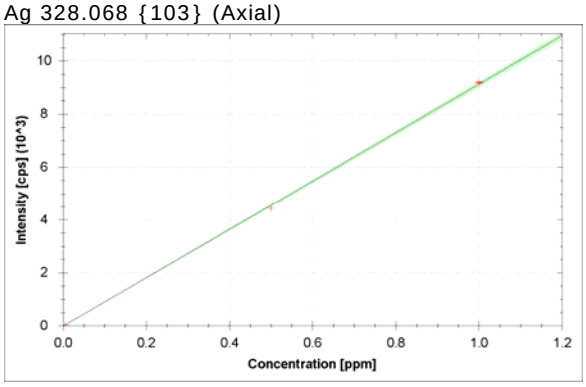
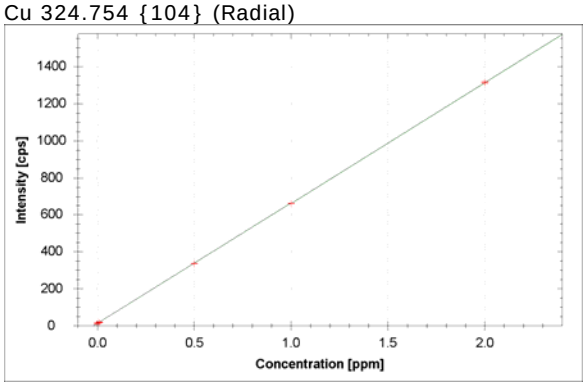
Ag 328.068 {103} (Axial)



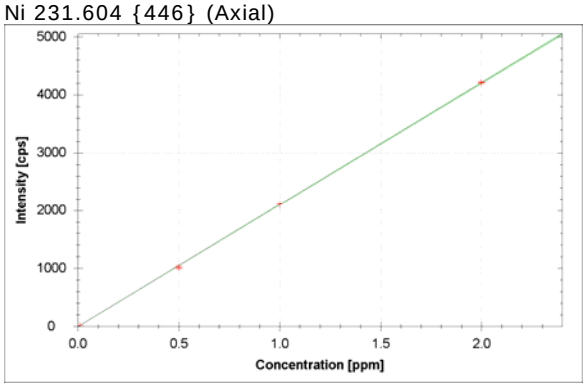
f(x) = 9142.1435*x + -17.1191
R^2 = 0.9997
BEC = -0.002 ppm
LoD = 0.0022 ppm

Cu 324.754 {104} (Radial)



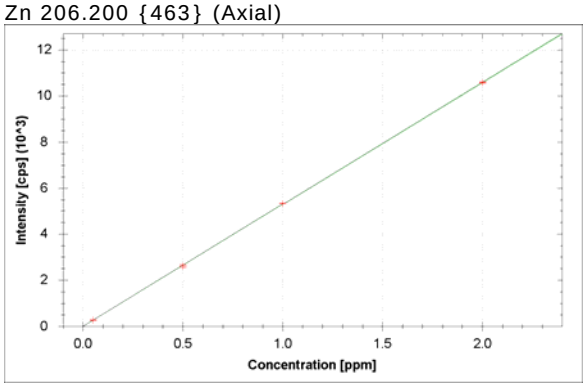
f(x) = 649.6380*x + 12.7240
R^2 = 1.0000
BEC = 0.020 ppm
LoD = 0.0148 ppm

Ni 231.604 {446} (Axial)



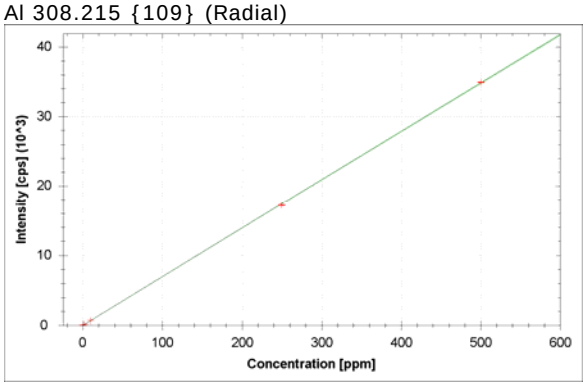
f(x) = 2104.4356*x + -3.2298
R^2 = 0.9999
BEC = -0.002 ppm
LoD = 0.0005 ppm

Zn 206.200 {463} (Axial)



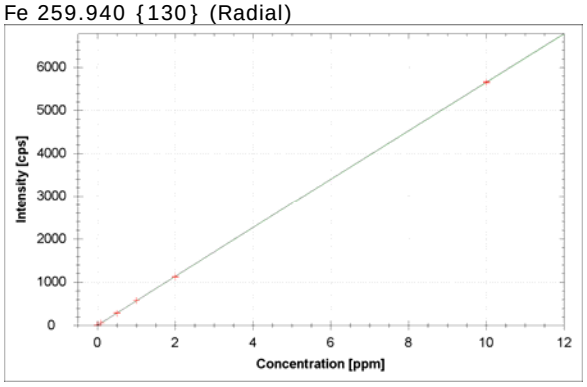
f(x) = 5291.4125*x + 2.7649
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0002 ppm

Al 308.215 {109} (Radial)



f(x) = 69.6041*x + 11.2286
R^2 = 0.9999
BEC = 0.161 ppm
LoD = 0.0572 ppm

Fe 259.940 {130} (Radial)



f(x) = 565.3046*x + 2.1741
R^2 = 1.0000
BEC = 0.004 ppm
LoD = 0.0046 ppm

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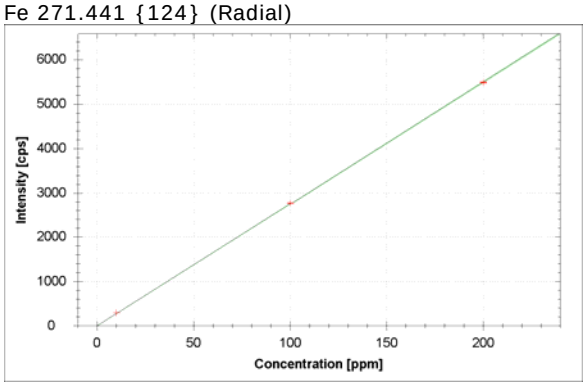
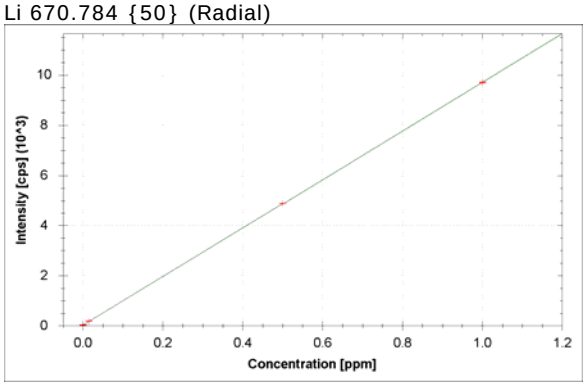
Fe 271.441 {124} (Radial)



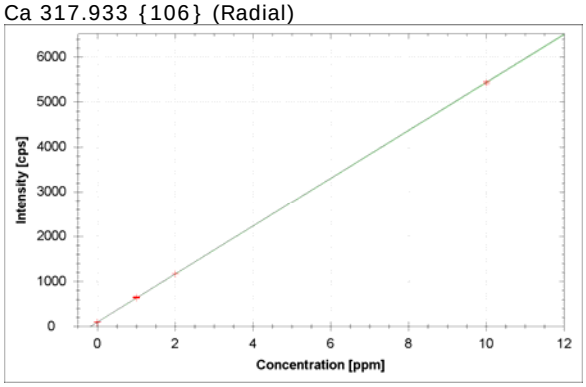
f(x) = 27.4622*x + 0.5282
R^2 = 1.0000
BEC = 0.019 ppm
LoD = 0.0767 ppm

Li 670.784 {50} (Radial)



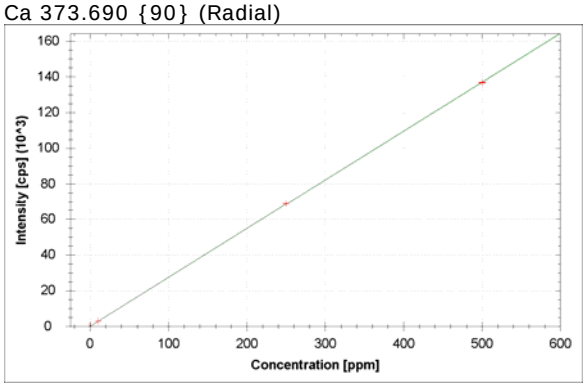
f(x) = 9681.4640*x + 26.2032
R^2 = 1.0000
BEC = 0.003 ppm
LoD = 0.0025 ppm

Ca 317.933 {106} (Radial)



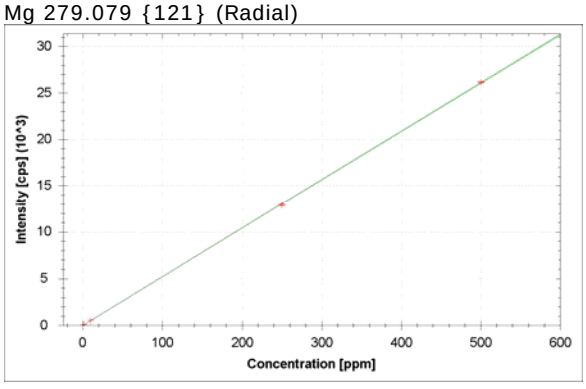
f(x) = 534.1061*x + 95.1426
R^2 = 1.0000
BEC = 0.178 ppm
LoD = 0.0110 ppm

Ca 373.690 {90} (Radial)



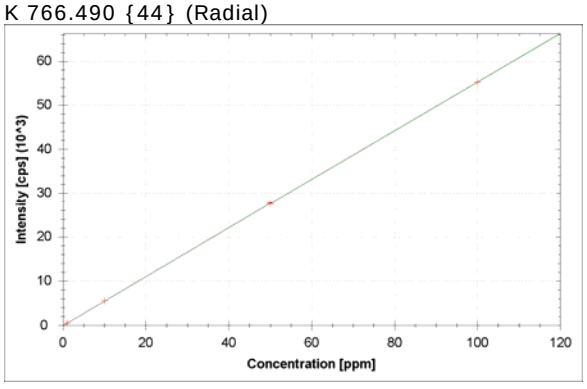
f(x) = 273.8393*x + 24.3867
R^2 = 1.0000
BEC = 0.089 ppm
LoD = 0.0194 ppm

Mg 279.079 {121} (Radial)



f(x) = 52.1374*x + 0.0074
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.1151 ppm

K 766.490 {44} (Radial)



f(x) = 553.0419*x + -68.9270
R^2 = 1.0000
BEC = -0.125 ppm
LoD = 0.1291 ppm

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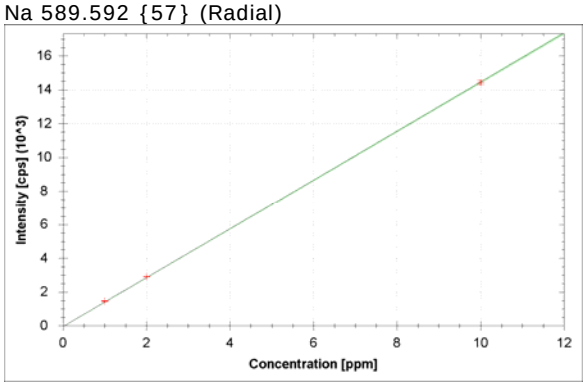
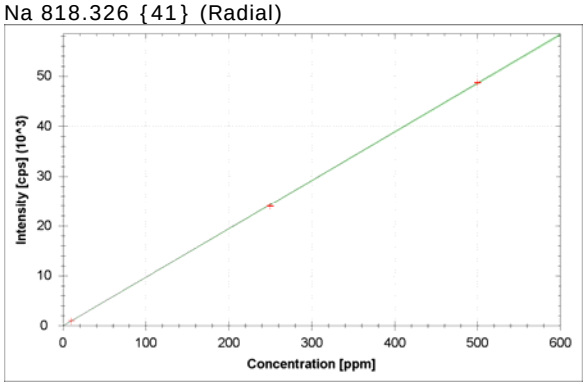
Na 589.592 {57} (Radial)



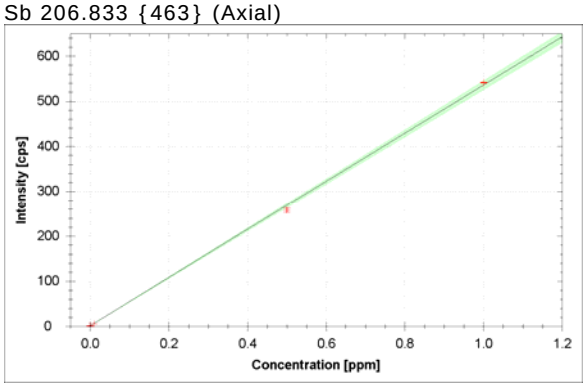
f(x) = 1449.5124*x + -48.4192
R^2 = 0.9999
BEC = -0.033 ppm
LoD = 0.0206 ppm

Na 818.326 {41} (Radial)



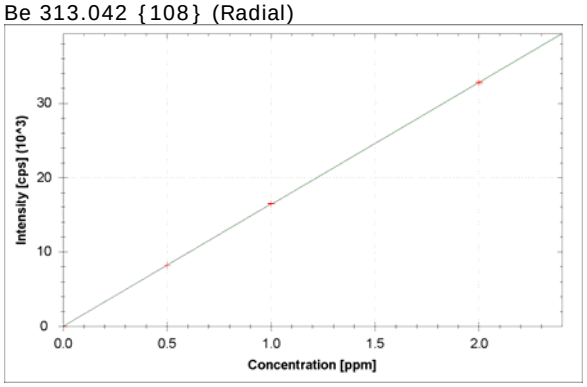
f(x) = 97.1724*x + -14.6877
R^2 = 0.9999
BEC = -0.151 ppm
LoD = 0.1784 ppm

Sb 206.833 {463} (Axial)



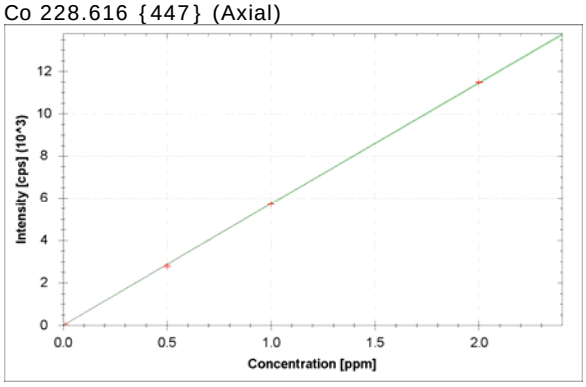
f(x) = 534.5059*x + 1.3890
R^2 = 0.9992
BEC = 0.003 ppm
LoD = 0.0024 ppm

Be 313.042 {108} (Radial)



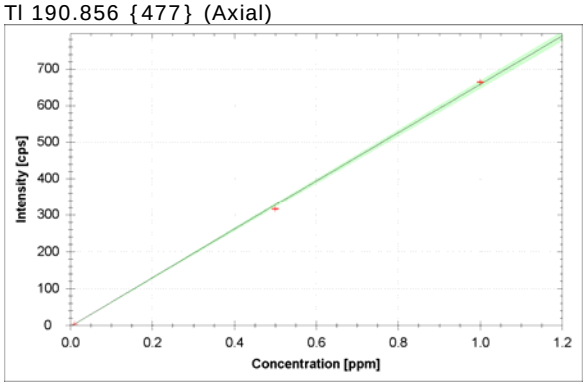
f(x) = 16397.4858*x + -1.9387
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0004 ppm

Co 228.616 {447} (Axial)



f(x) = 5732.4959*x + -2.4159
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0002 ppm

Tl 190.856 {477} (Axial)



f(x) = 660.6328*x + -2.9403
R^2 = 0.9994
BEC = -0.004 ppm
LoD = 0.0023 ppm

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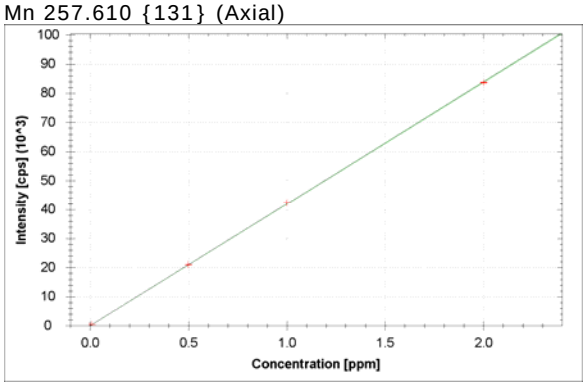
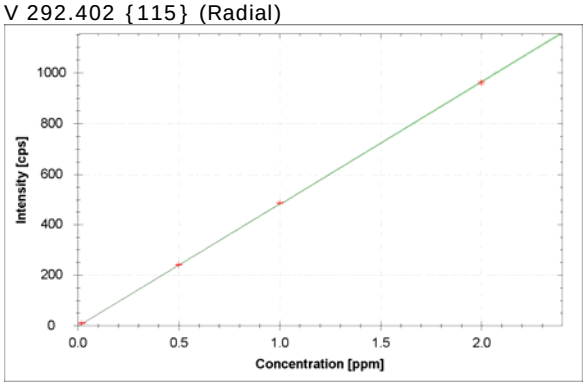
Mn 257.610 {131} (Axial)



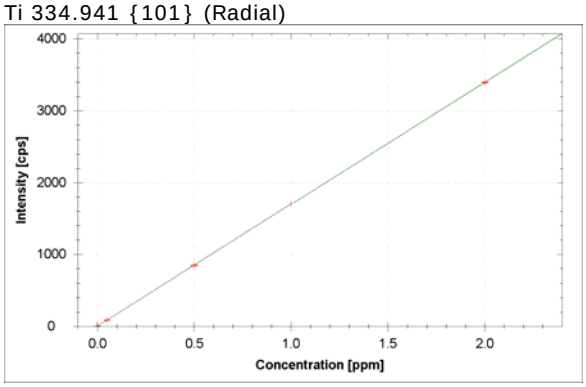
f(x) = 41934.2128*x + 16.1010
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0002 ppm

V 292.402 {115} (Radial)



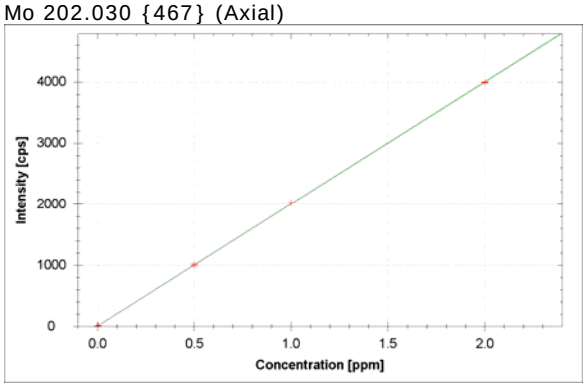
f(x) = 483.3016*x + -2.0420
R^2 = 0.9999
BEC = -0.004 ppm
LoD = 0.0063 ppm

Ti 334.941 {101} (Radial)



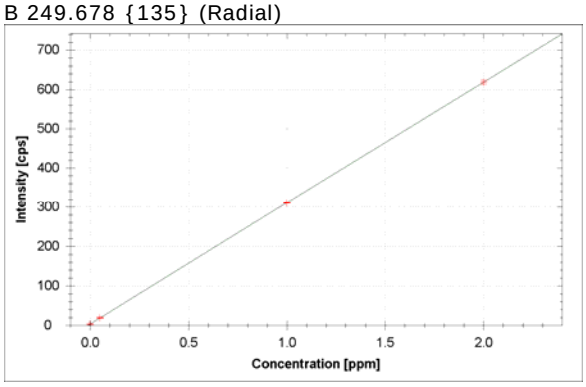
f(x) = 1696.8692*x + 1.9377
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0060 ppm

Mo 202.030 {467} (Axial)



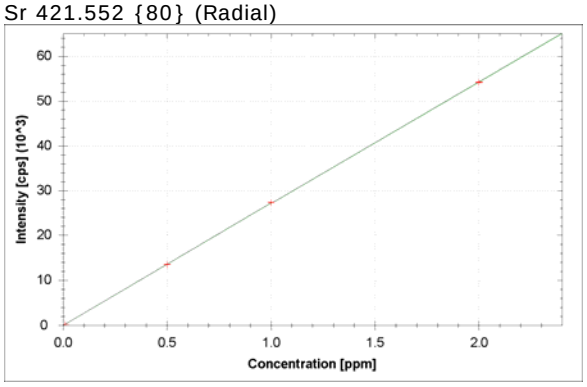
f(x) = 1999.2432*x + 2.8991
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0002 ppm

B 249.678 {135} (Radial)



f(x) = 307.4691*x + 3.3837
R^2 = 1.0000
BEC = 0.011 ppm
LoD = 0.0069 ppm

Sr 421.552 {80} (Radial)



f(x) = 27146.8597*x + -25.2914
R^2 = 1.0000
BEC = -0.001 ppm
LoD = 0.0003 ppm

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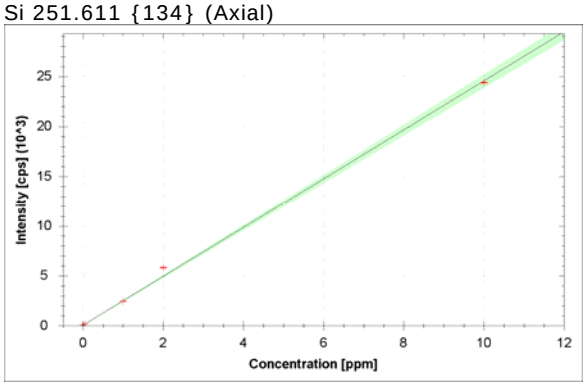
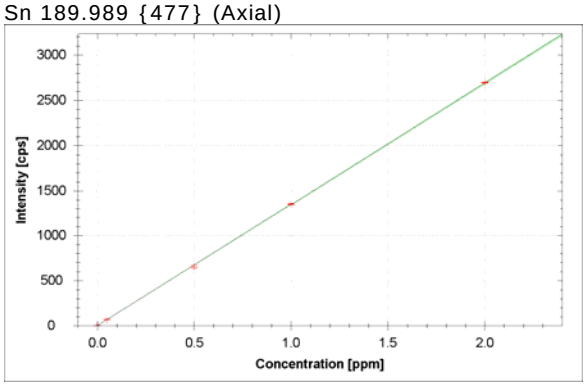
Si 251.611 {134} (Axial)



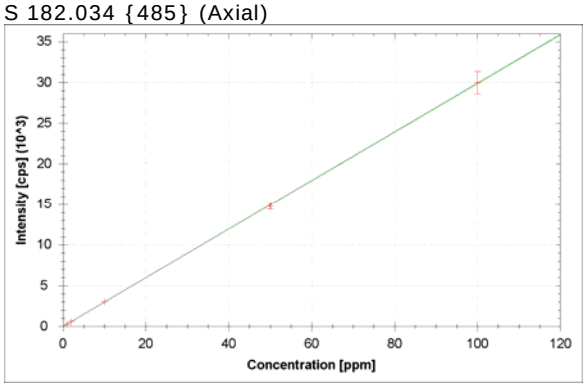
f(x) = 2450.3230*x + 52.6031
R^2 = 0.9982
BEC = 0.021 ppm
LoD = 0.0043 ppm

Sn 189.989 {477} (Axial)



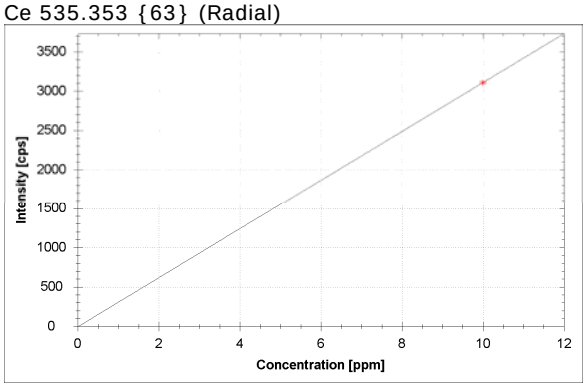
f(x) = 1344.1211*x + 1.8760
R^2 = 0.9999
BEC = 0.001 ppm
LoD = 0.0007 ppm

S 182.034 {485} (Axial)



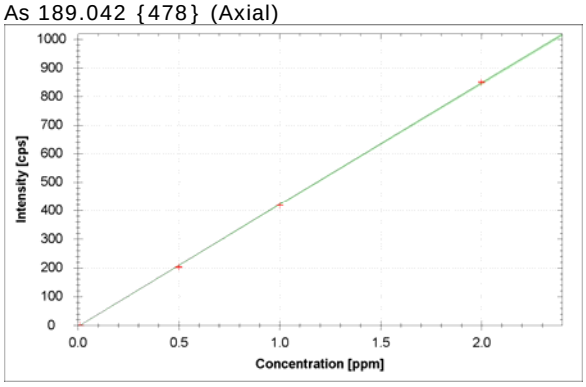
f(x) = 298.9554*x + -1.5232
R^2 = 0.9999
BEC = -0.005 ppm
LoD = 0.0030 ppm

Ce 535.353 {63} (Radial)



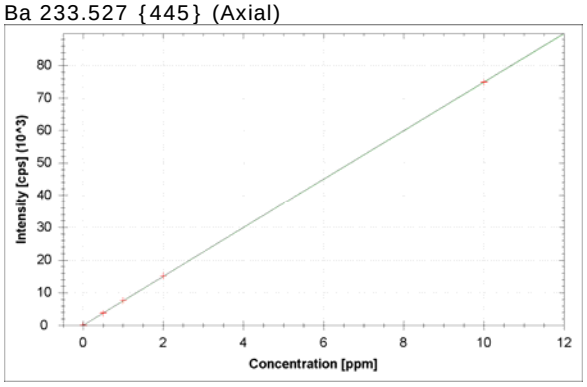
f(x) = 311.3017*x + -5.4611
R^2 = 1.0000
BEC = -0.018 ppm
LoD = 0.0411 ppm

As 189.042 {478} (Axial)



f(x) = 425.1970*x + -3.8924
R^2 = 0.9999
BEC = -0.009 ppm
LoD = 0.0020 ppm

Ba 233.527 {445} (Axial)



f(x) = 7488.5450*x + 4.4851
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0005 ppm

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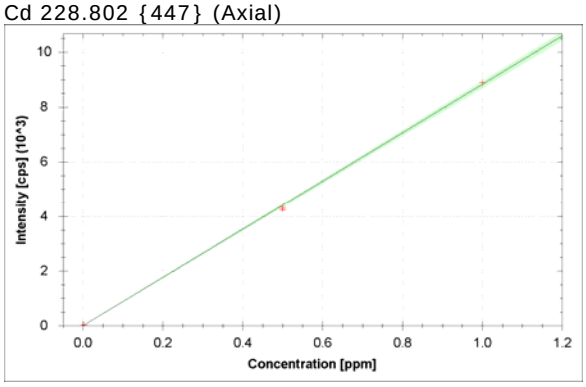
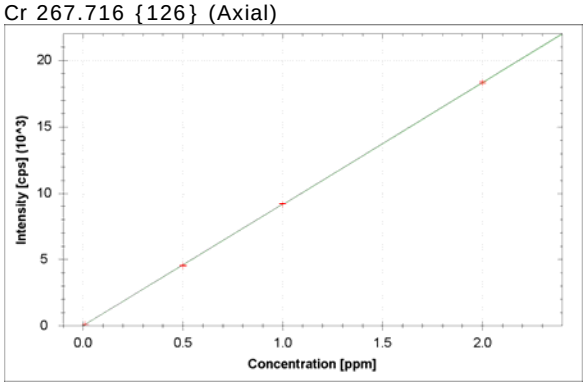
Cd 228.802 {447} (Axial)



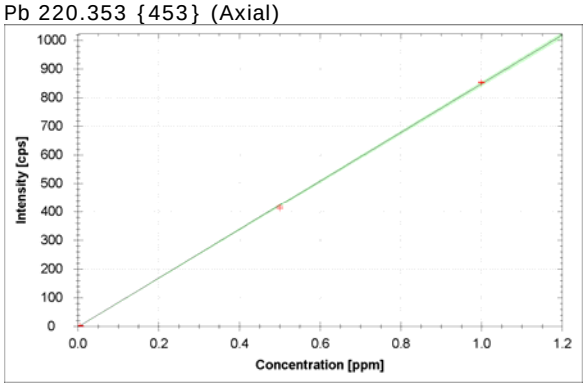
f(x) = 8823.9442*x + 1.3024
R^2 = 0.9996
BEC = 0.000 ppm
LoD = 0.0003 ppm

Cr 267.716 {126} (Axial)



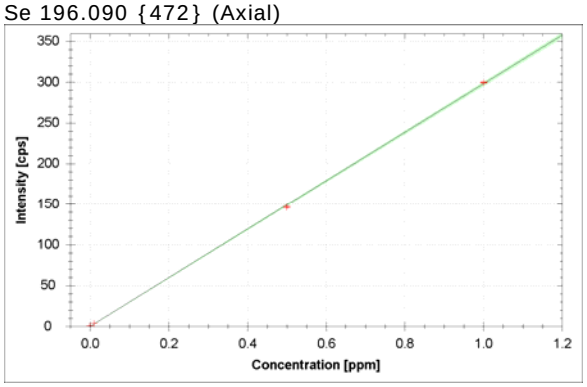
f(x) = 9161.1577*x + 0.9013
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0009 ppm

Pb 220.353 {453} (Axial)



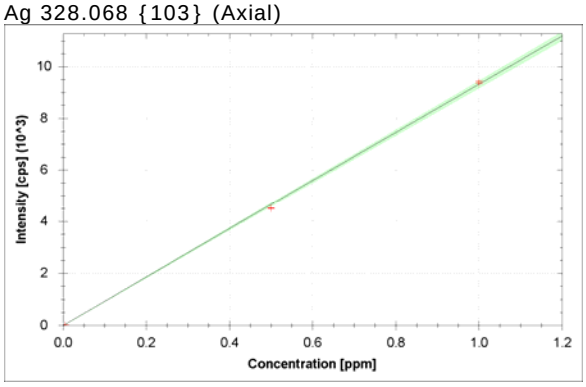
f(x) = 850.3301*x + -1.8442
R^2 = 0.9998
BEC = -0.002 ppm
LoD = 0.0004 ppm

Se 196.090 {472} (Axial)



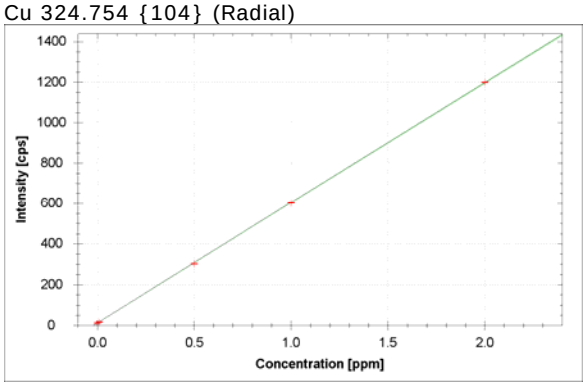
f(x) = 297.9563*x + 0.0768
R^2 = 0.9998
BEC = 0.000 ppm
LoD = 0.0073 ppm

Ag 328.068 {103} (Axial)



f(x) = 9330.0686*x + -10.8962
R^2 = 0.9995
BEC = -0.001 ppm
LoD = 0.0022 ppm

Cu 324.754 {104} (Radial)



f(x) = 592.6926*x + 11.6466
R^2 = 0.9999
BEC = 0.020 ppm
LoD = 0.0123 ppm

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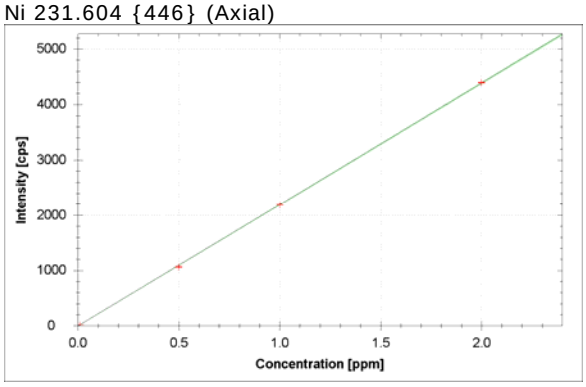
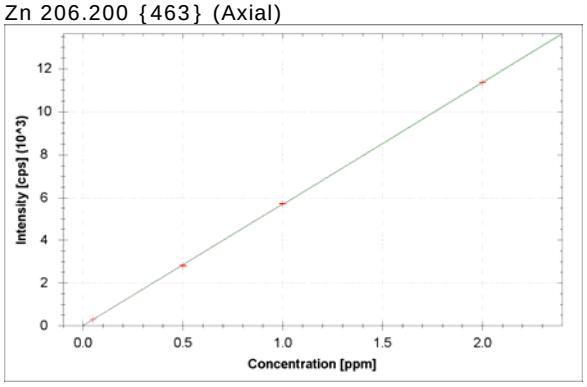
Ni 231.604 {446} (Axial)



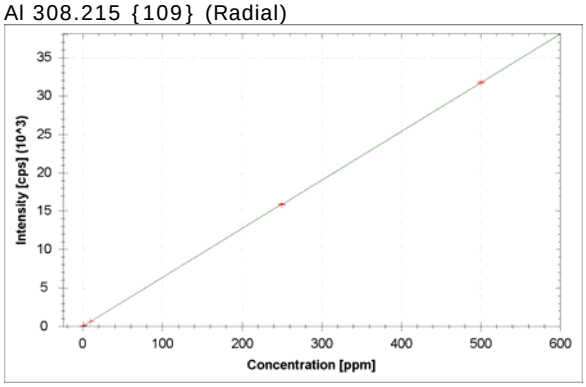
f(x) = 2194.5332*x + -3.5867
R^2 = 0.9999
BEC = -0.002 ppm
LoD = 0.0025 ppm

Zn 206.200 {463} (Axial)



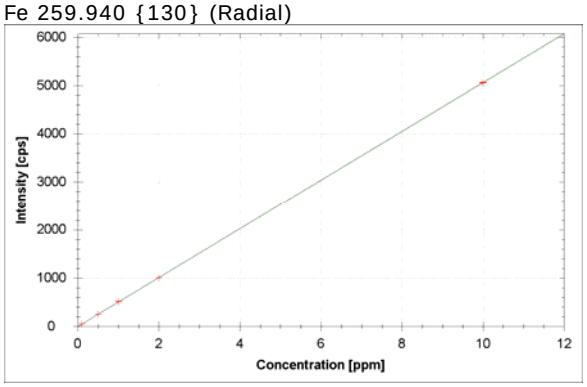
f(x) = 5681.1131*x + 1.9012
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0002 ppm

Al 308.215 {109} (Radial)



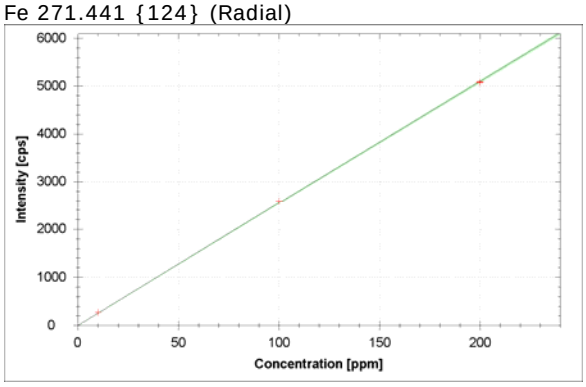
f(x) = 63.4066*x + 14.0088
R^2 = 1.0000
BEC = 0.221 ppm
LoD = 0.1237 ppm

Fe 259.940 {130} (Radial)



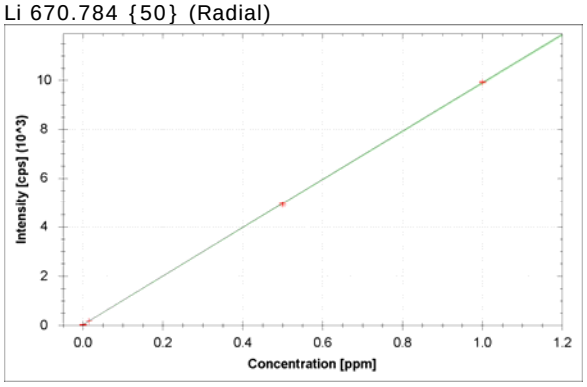
f(x) = 506.2853*x + -0.5902
R^2 = 1.0000
BEC = -0.001 ppm
LoD = 0.0129 ppm

Fe 271.441 {124} (Radial)



f(x) = 25.4899*x + -0.2822
R^2 = 0.9999
BEC = -0.011 ppm
LoD = 0.1354 ppm

Li 670.784 {50} (Radial)



f(x) = 9869.1481*x + 28.6479
R^2 = 0.9999
BEC = 0.003 ppm
LoD = 0.0029 ppm

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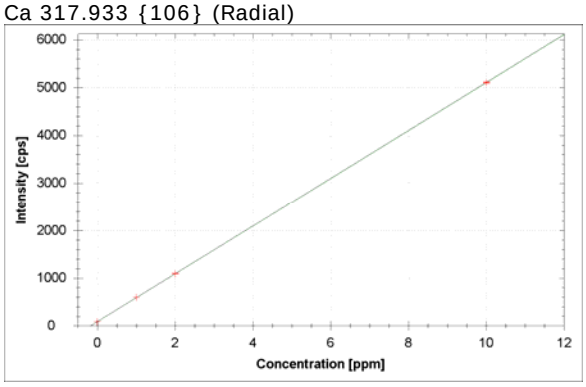
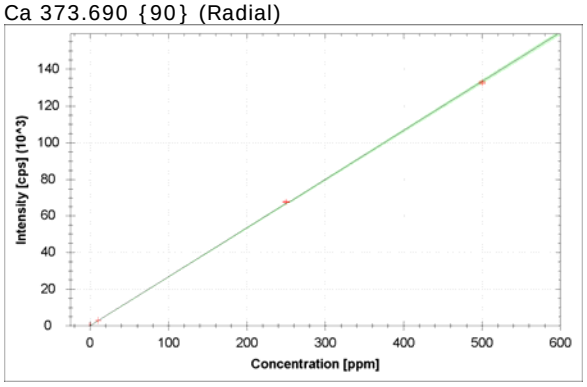
Ca 317.933 {106} (Radial)



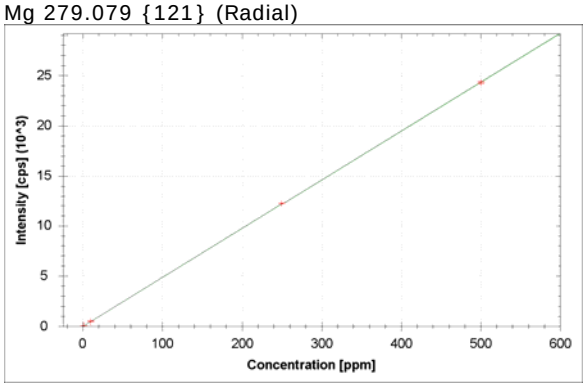
f(x) = 502.0747*x + 86.9374
R^2 = 1.0000
BEC = 0.173 ppm
LoD = 0.0142 ppm

Ca 373.690 {90} (Radial)



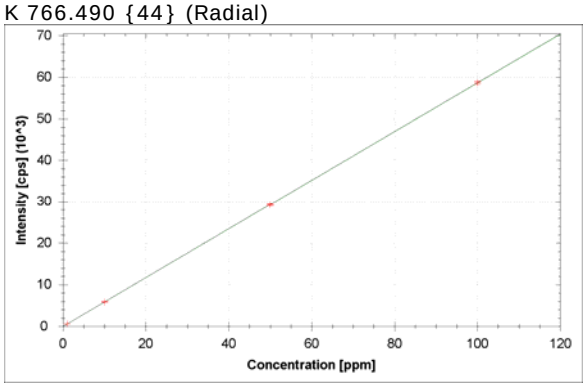
f(x) = 266.4754*x + 28.6699
R^2 = 0.9999
BEC = 0.108 ppm
LoD = 0.0310 ppm

Mg 279.079 {121} (Radial)



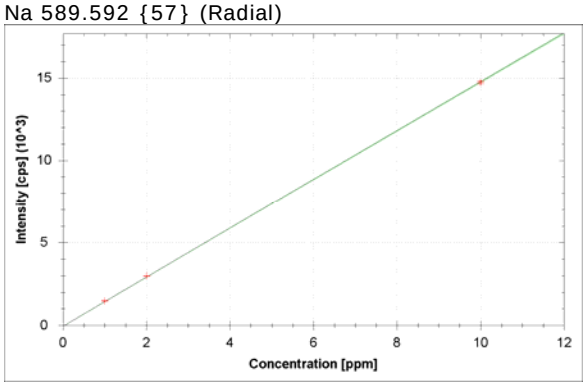
f(x) = 48.6655*x + 1.9088
R^2 = 1.0000
BEC = 0.039 ppm
LoD = 0.2347 ppm

K 766.490 {44} (Radial)



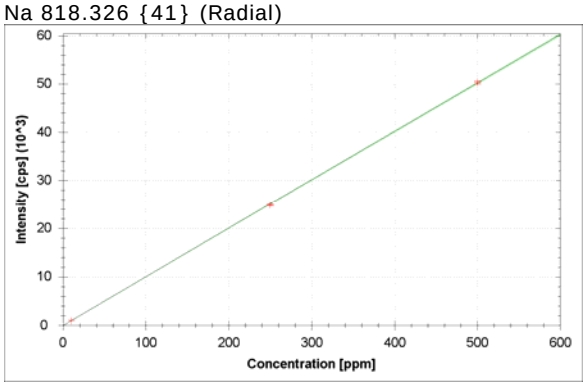
f(x) = 586.7402*x + -6.7088
R^2 = 1.0000
BEC = -0.011 ppm
LoD = 0.1079 ppm

Na 589.592 {57} (Radial)



f(x) = 1482.7440*x + -51.3609
R^2 = 0.9999
BEC = -0.035 ppm
LoD = 0.0271 ppm

Na 818.326 {41} (Radial)



f(x) = 100.5045*x + -32.5398
R^2 = 0.9999
BEC = -0.324 ppm
LoD = 0.4508 ppm

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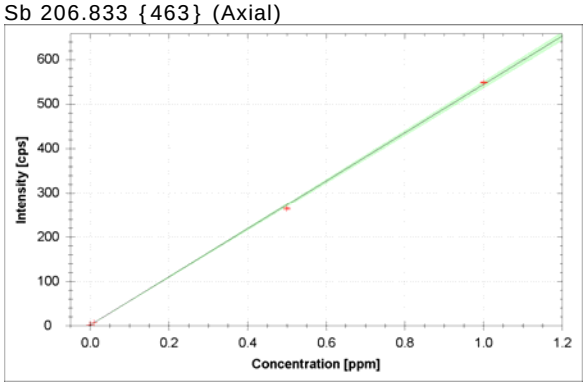
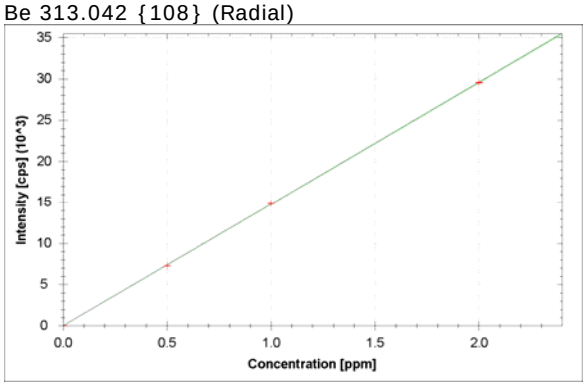
Sb 206.833 {463} (Axial)



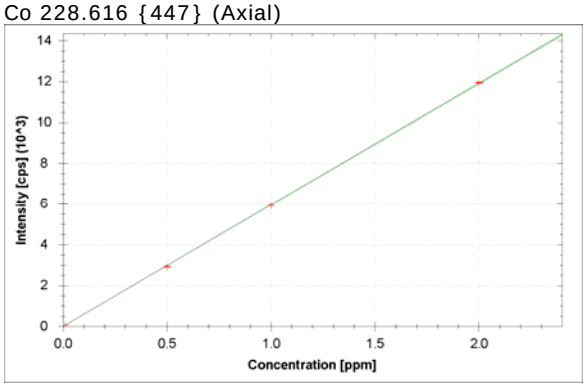
f(x) = 542.5926*x + 1.3782
R^2 = 0.9996
BEC = 0.003 ppm
LoD = 0.0017 ppm

Be 313.042 {108} (Radial)



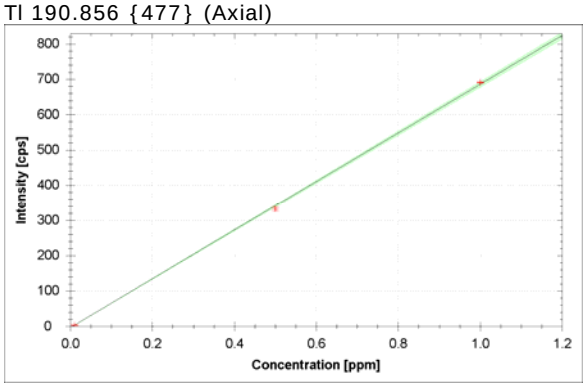
f(x) = 14795.7700*x + -4.6366
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0001 ppm

Co 228.616 {447} (Axial)



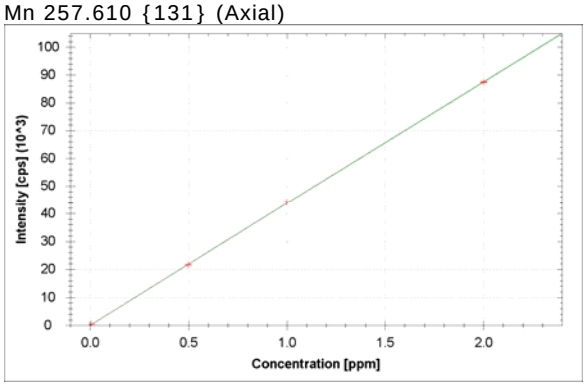
f(x) = 5960.3278*x + -1.1150
R^2 = 0.9999
BEC = 0.000 ppm
LoD = 0.0002 ppm

Tl 190.856 {477} (Axial)



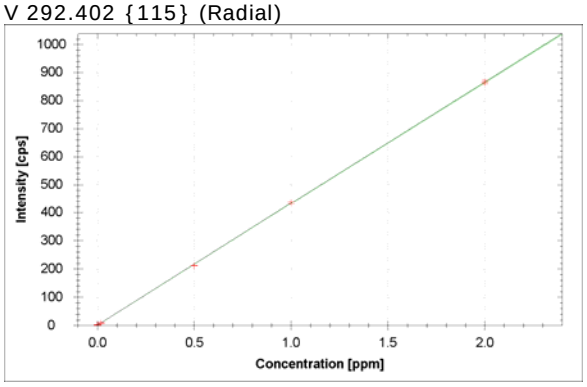
f(x) = 689.3384*x + -3.1731
R^2 = 0.9997
BEC = -0.005 ppm
LoD = 0.0025 ppm

Mn 257.610 {131} (Axial)



f(x) = 43733.2733*x + 16.9976
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0000 ppm

V 292.402 {115} (Radial)



f(x) = 432.2107*x + 0.7346
R^2 = 0.9999
BEC = 0.002 ppm
LoD = 0.0104 ppm

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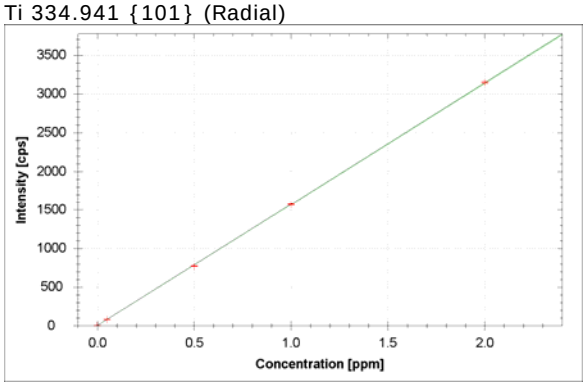
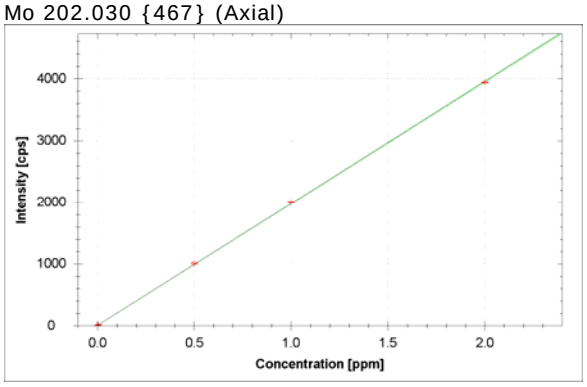
Ti 334.941 {101} (Radial)



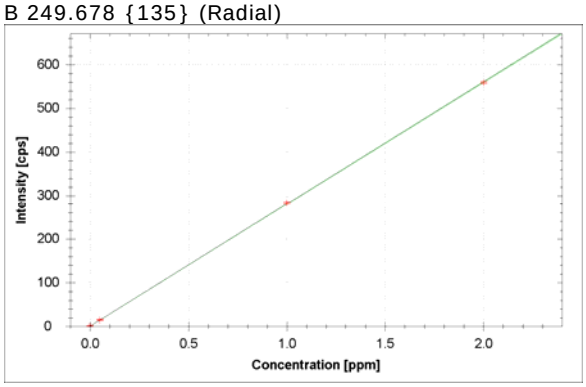
f(x) = 1568.9093*x + 3.5245
R^2 = 1.0000
BEC = 0.002 ppm
LoD = 0.0044 ppm

Mo 202.030 {467} (Axial)



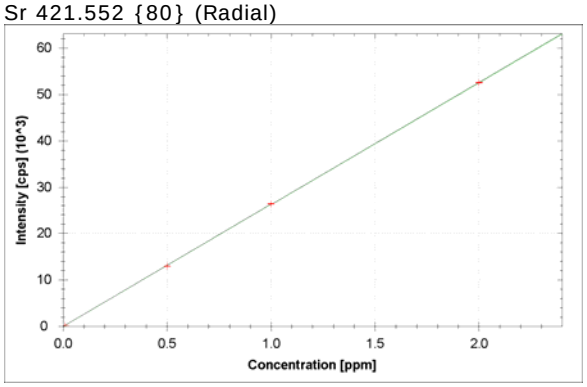
f(x) = 1975.7099*x + 3.6680
R^2 = 0.9999
BEC = 0.002 ppm
LoD = 0.0009 ppm

B 249.678 {135} (Radial)



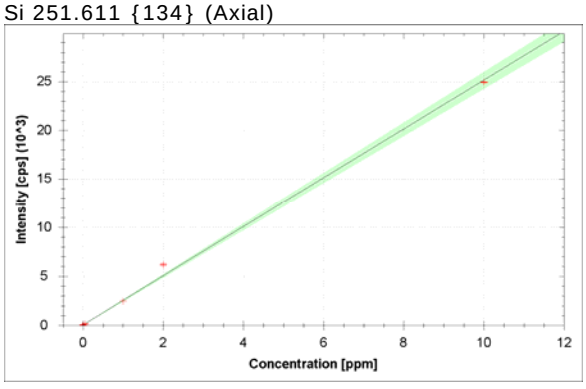
f(x) = 279.8948*x + 0.5916
R^2 = 1.0000
BEC = 0.002 ppm
LoD = 0.0183 ppm

Sr 421.552 {80} (Radial)



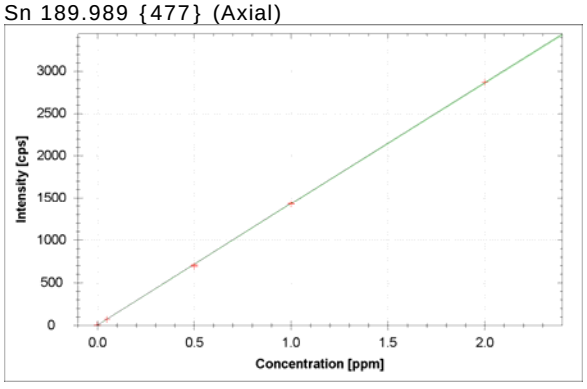
f(x) = 26308.9043*x + -28.3225
R^2 = 1.0000
BEC = -0.001 ppm
LoD = 0.0002 ppm

Si 251.611 {134} (Axial)



f(x) = 2510.1668*x + 47.4726
R^2 = 0.9970
BEC = 0.019 ppm
LoD = 0.0016 ppm

Sn 189.989 {477} (Axial)



f(x) = 1429.9840*x + 2.6386
R^2 = 0.9999
BEC = 0.002 ppm
LoD = 0.0005 ppm

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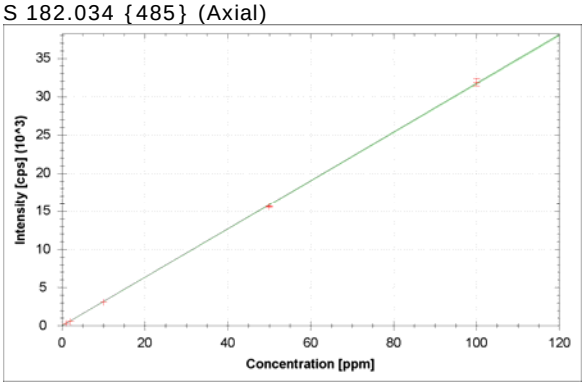
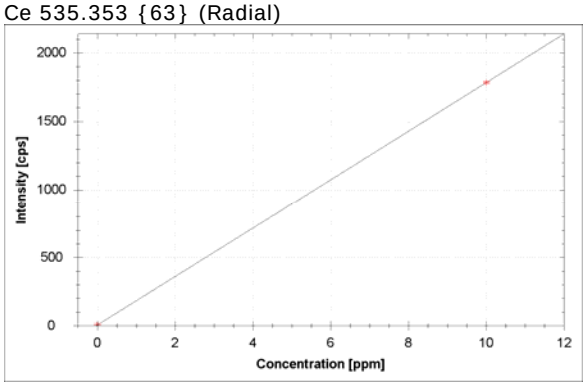
S 182.034 {485} (Axial)



f(x) = 317.0194*x + -1.7489
R^2 = 0.9999
BEC = -0.006 ppm
LoD = 0.0074 ppm

Ce 535.353 {63} (Radial)



f(x) = 177.9053*x + 5.1333
R^2 = 1.0000
BEC = 0.029 ppm
LoD = 0.1663 ppm

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Standard readbacks

	STD1 15I21316	STD1 15I21316
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	0.0127 ppm	0.0100 ppm
Ba 233.527 {445} (Axial)	0.0054 ppm	0.0050 ppm
Cd 228.802 {447} (Axial)	0.0020 ppm	0.0020 ppm
Cr 267.716 {126} (Axial)	0.0100 ppm	0.0100 ppm
Pb 220.353 {453} (Axial)	0.0050 ppm	0.0050 ppm
Se 196.090 {472} (Axial)	0.0110 ppm	0.0100 ppm
Ag 328.068 {103} (Axial)	0.0047 ppm	0.0050 ppm
Cu 324.754 {104} (Radial)	0.0088 ppm	0.0100 ppm
Ni 231.604 {446} (Axial)	0.0101 ppm	0.0100 ppm
Zn 206.200 {463} (Axial)	0.0518 ppm	0.0500 ppm
Al 308.215 {109} (Radial)	0.2530 ppm	0.2000 ppm
Fe 259.940 {130} (Radial)	0.1051 ppm	0.1000 ppm
Fe 271.441 {124} (Radial)	N/A	N/A
Li 670.784 {50} (Radial)	0.0162 ppm	0.0150 ppm
Ca 317.933 {106} (Radial)	1.0465 ppm	1.0000 ppm
Ca 373.690 {90} (Radial)	N/A	N/A
Mg 279.079 {121} (Radial)	1.0692 ppm	1.0000 ppm
K 766.490 {44} (Radial)	1.0487 ppm	1.0000 ppm
Na 589.592 {57} (Radial)	1.0468 ppm	1.0000 ppm
Na 818.326 {41} (Radial)	N/A	N/A
Sb 206.833 {463} (Axial)	0.0085 ppm	0.0100 ppm
Be 313.042 {108} (Radial)	0.0020 ppm	0.0020 ppm
Co 228.616 {447} (Axial)	0.0099 ppm	0.0100 ppm
Tl 190.856 {477} (Axial)	0.0104 ppm	0.0100 ppm
Mn 257.610 {131} (Axial)	0.0105 ppm	0.0100 ppm
V 292.402 {115} (Radial)	0.0251 ppm	0.0200 ppm
Ti 334.941 {101} (Radial)	0.0511 ppm	0.0500 ppm
Mo 202.030 {467} (Axial)	0.0053 ppm	0.0050 ppm
B 249.678 {135} (Radial)	0.0503 ppm	0.0500 ppm
Sr 421.552 {80} (Radial)	0.0102 ppm	0.0100 ppm
Si 251.611 {134} (Axial)	0.0475 ppm	0.0500 ppm
Sn 189.989 {477} (Axial)	0.0492 ppm	0.0500 ppm
S 182.034 {485} (Axial)	0.9240 ppm	1.0000 ppm
In 230.606 {446} (Axial)	99.7641 %	
Y 360.073 {94} (Radial)	101.5701 %	
Y 360.073 {94} (Axial)	101.5987 %	
Y 224.306 {450} (Axial)	100.8912 %	
Ce 535.353 {63} (Radial)	N/A	N/A

	STD2 15G21064	STD2 15G21064
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	0.4809 ppm	0.5000 ppm
Ba 233.527 {445} (Axial)	0.5013 ppm	0.5000 ppm
Cd 228.802 {447} (Axial)	0.4811 ppm	0.5000 ppm
Cr 267.716 {126} (Axial)	0.5024 ppm	0.5000 ppm
Pb 220.353 {453} (Axial)	0.4862 ppm	0.5000 ppm
Se 196.090 {472} (Axial)	0.4882 ppm	0.5000 ppm
Ag 328.068 {103} (Axial)	0.4868 ppm	0.5000 ppm
Cu 324.754 {104} (Radial)	0.4972 ppm	0.5000 ppm
Ni 231.604 {446} (Axial)	0.4840 ppm	0.5000 ppm
Zn 206.200 {463} (Axial)	0.4916 ppm	0.5000 ppm
Al 308.215 {109} (Radial)	N/A	N/A
Fe 259.940 {130} (Radial)	0.5069 ppm	0.5000 ppm

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	STD2 15G21064	STD2 15G21064
Fe 271.441 {124} (Radial)	N/A	N/A
Li 670.784 {50} (Radial)	0.5017 ppm	0.5000 ppm
Ca 317.933 {106} (Radial)	N/A	N/A
Ca 373.690 {90} (Radial)	N/A	N/A
Mg 279.079 {121} (Radial)	N/A	N/A
K 766.490 {44} (Radial)	N/A	N/A
Na 589.592 {57} (Radial)	N/A	N/A
Na 818.326 {41} (Radial)	N/A	N/A
Sb 206.833 {463} (Axial)	0.4794 ppm	0.5000 ppm
Be 313.042 {108} (Radial)	0.4994 ppm	0.5000 ppm
Co 228.616 {447} (Axial)	0.4865 ppm	0.5000 ppm
Tl 190.856 {477} (Axial)	0.4826 ppm	0.5000 ppm
Mn 257.610 {131} (Axial)	0.5003 ppm	0.5000 ppm
V 292.402 {115} (Radial)	0.5028 ppm	0.5000 ppm
Ti 334.941 {101} (Radial)	0.4961 ppm	0.5000 ppm
Mo 202.030 {467} (Axial)	0.5013 ppm	0.5000 ppm
B 249.678 {135} (Radial)	N/A	N/A
Sr 421.552 {80} (Radial)	0.4980 ppm	0.5000 ppm
Si 251.611 {134} (Axial)	N/A	N/A
Sn 189.989 {477} (Axial)	0.4835 ppm	0.5000 ppm
S 182.034 {485} (Axial)	N/A	N/A
In 230.606 {446} (Axial)	99.7995 %	
Y 360.073 {94} (Radial)	103.5385 %	
Y 360.073 {94} (Axial)	102.7144 %	
Y 224.306 {450} (Axial)	101.8866 %	
Ce 535.353 {63} (Radial)	N/A	N/A

	STD3 15H06986	STD3 15H06986
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	0.9913 ppm	1.0000 ppm
Ba 233.527 {445} (Axial)	1.0201 ppm	1.0000 ppm
Cd 228.802 {447} (Axial)	1.0094 ppm	1.0000 ppm
Cr 267.716 {126} (Axial)	1.0019 ppm	1.0000 ppm
Pb 220.353 {453} (Axial)	1.0069 ppm	1.0000 ppm
Se 196.090 {472} (Axial)	1.0059 ppm	1.0000 ppm
Ag 328.068 {103} (Axial)	1.0066 ppm	1.0000 ppm
Cu 324.754 {104} (Radial)	0.9984 ppm	1.0000 ppm
Ni 231.604 {446} (Axial)	1.0034 ppm	1.0000 ppm
Zn 206.200 {463} (Axial)	1.0059 ppm	1.0000 ppm
Al 308.215 {109} (Radial)	N/A	N/A
Fe 259.940 {130} (Radial)	1.0181 ppm	1.0000 ppm
Fe 271.441 {124} (Radial)	N/A	N/A
Li 670.784 {50} (Radial)	0.9991 ppm	1.0000 ppm
Ca 317.933 {106} (Radial)	1.0091 ppm	1.0000 ppm
Ca 373.690 {90} (Radial)	N/A	N/A
Mg 279.079 {121} (Radial)	N/A	N/A
K 766.490 {44} (Radial)	N/A	N/A
Na 589.592 {57} (Radial)	1.0322 ppm	1.0000 ppm
Na 818.326 {41} (Radial)	N/A	N/A
Sb 206.833 {463} (Axial)	1.0103 ppm	1.0000 ppm
Be 313.042 {108} (Radial)	1.0034 ppm	1.0000 ppm
Co 228.616 {447} (Axial)	0.9967 ppm	1.0000 ppm
Tl 190.856 {477} (Axial)	1.0087 ppm	1.0000 ppm
Mn 257.610 {131} (Axial)	1.0100 ppm	1.0000 ppm
V 292.402 {115} (Radial)	1.0111 ppm	1.0000 ppm

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	STD3 15H06986	STD3 15H06986
Ti 334.941 {101} (Radial)	1.0059 ppm	1.0000 ppm
Mo 202.030 {467} (Axial)	1.0097 ppm	1.0000 ppm
B 249.678 {135} (Radial)	0.9999 ppm	1.0000 ppm
Sr 421.552 {80} (Radial)	1.0062 ppm	1.0000 ppm
Si 251.611 {134} (Axial)	0.9773 ppm	1.0000 ppm
Sn 189.989 {477} (Axial)	0.9991 ppm	1.0000 ppm
S 182.034 {485} (Axial)	0.9726 ppm	1.0000 ppm
In 230.606 {446} (Axial)	99.4077 %	
Y 360.073 {94} (Radial)	106.4520 %	
Y 360.073 {94} (Axial)	102.9390 %	
Y 224.306 {450} (Axial)	102.1000 %	
Ce 535.353 {63} (Radial)	N/A	N/A

	STD4 15I21305	STD4 15I21305
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	2.0091 ppm	2.0000 ppm
Ba 233.527 {445} (Axial)	2.0259 ppm	2.0000 ppm
Cd 228.802 {447} (Axial)	N/A	N/A
Cr 267.716 {126} (Axial)	1.9984 ppm	2.0000 ppm
Pb 220.353 {453} (Axial)	N/A	N/A
Se 196.090 {472} (Axial)	N/A	N/A
Ag 328.068 {103} (Axial)	N/A	N/A
Cu 324.754 {104} (Radial)	2.0015 ppm	2.0000 ppm
Ni 231.604 {446} (Axial)	2.0023 ppm	2.0000 ppm
Zn 206.200 {463} (Axial)	1.9991 ppm	2.0000 ppm
Al 308.215 {109} (Radial)	2.0638 ppm	2.0000 ppm
Fe 259.940 {130} (Radial)	1.9841 ppm	2.0000 ppm
Fe 271.441 {124} (Radial)	N/A	N/A
Li 670.784 {50} (Radial)	N/A	N/A
Ca 317.933 {106} (Radial)	2.0115 ppm	2.0000 ppm
Ca 373.690 {90} (Radial)	N/A	N/A
Mg 279.079 {121} (Radial)	N/A	N/A
K 766.490 {44} (Radial)	N/A	N/A
Na 589.592 {57} (Radial)	2.0369 ppm	2.0000 ppm
Na 818.326 {41} (Radial)	N/A	N/A
Sb 206.833 {463} (Axial)	N/A	N/A
Be 313.042 {108} (Radial)	1.9984 ppm	2.0000 ppm
Co 228.616 {447} (Axial)	2.0050 ppm	2.0000 ppm
Tl 190.856 {477} (Axial)	N/A	N/A
Mn 257.610 {131} (Axial)	1.9949 ppm	2.0000 ppm
V 292.402 {115} (Radial)	1.9937 ppm	2.0000 ppm
Ti 334.941 {101} (Radial)	1.9980 ppm	2.0000 ppm
Mo 202.030 {467} (Axial)	1.9948 ppm	2.0000 ppm
B 249.678 {135} (Radial)	2.0001 ppm	2.0000 ppm
Sr 421.552 {80} (Radial)	1.9974 ppm	2.0000 ppm
Si 251.611 {134} (Axial)	2.3513 ppm	2.0000 ppm
Sn 189.989 {477} (Axial)	2.0046 ppm	2.0000 ppm
S 182.034 {485} (Axial)	1.9738 ppm	2.0000 ppm
In 230.606 {446} (Axial)	98.2771 %	
Y 360.073 {94} (Radial)	107.1940 %	
Y 360.073 {94} (Axial)	102.5126 %	
Y 224.306 {450} (Axial)	101.6678 %	
Ce 535.353 {63} (Radial)	N/A	N/A

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	STD5 15I21304	STD5 15I21304
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	N/A	N/A
Ba 233.527 {445} (Axial)	9.9927 ppm	10.0000 ppm
Cd 228.802 {447} (Axial)	N/A	N/A
Cr 267.716 {126} (Axial)	N/A	N/A
Pb 220.353 {453} (Axial)	N/A	N/A
Se 196.090 {472} (Axial)	N/A	N/A
Ag 328.068 {103} (Axial)	N/A	N/A
Cu 324.754 {104} (Radial)	N/A	N/A
Ni 231.604 {446} (Axial)	N/A	N/A
Zn 206.200 {463} (Axial)	N/A	N/A
Al 308.215 {109} (Radial)	10.1694 ppm	10.0000 ppm
Fe 259.940 {130} (Radial)	10.0010 ppm	10.0000 ppm
Fe 271.441 {124} (Radial)	10.5943 ppm	10.0000 ppm
Li 670.784 {50} (Radial)	N/A	N/A
Ca 317.933 {106} (Radial)	9.9922 ppm	10.0000 ppm
Ca 373.690 {90} (Radial)	10.8176 ppm	10.0000 ppm
Mg 279.079 {121} (Radial)	10.2925 ppm	10.0000 ppm
K 766.490 {44} (Radial)	10.2231 ppm	10.0000 ppm
Na 589.592 {57} (Radial)	9.9847 ppm	10.0000 ppm
Na 818.326 {41} (Radial)	10.5441 ppm	10.0000 ppm
Sb 206.833 {463} (Axial)	N/A	N/A
Be 313.042 {108} (Radial)	N/A	N/A
Co 228.616 {447} (Axial)	N/A	N/A
Tl 190.856 {477} (Axial)	N/A	N/A
Mn 257.610 {131} (Axial)	N/A	N/A
V 292.402 {115} (Radial)	N/A	N/A
Ti 334.941 {101} (Radial)	N/A	N/A
Mo 202.030 {467} (Axial)	N/A	N/A
B 249.678 {135} (Radial)	N/A	N/A
Sr 421.552 {80} (Radial)	N/A	N/A
Si 251.611 {134} (Axial)	9.9320 ppm	10.0000 ppm
Sn 189.989 {477} (Axial)	N/A	N/A
S 182.034 {485} (Axial)	10.1654 ppm	10.0000 ppm
In 230.606 {446} (Axial)	96.2501 %	
Y 360.073 {94} (Radial)	107.1578 %	
Y 360.073 {94} (Axial)	101.5183 %	
Y 224.306 {450} (Axial)	100.6895 %	
Ce 535.353 {63} (Radial)	N/A	N/A

	STD6 15I21386	STD6 15I21386
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	N/A	N/A
Ba 233.527 {445} (Axial)	N/A	N/A
Cd 228.802 {447} (Axial)	N/A	N/A
Cr 267.716 {126} (Axial)	N/A	N/A
Pb 220.353 {453} (Axial)	N/A	N/A
Se 196.090 {472} (Axial)	N/A	N/A
Ag 328.068 {103} (Axial)	N/A	N/A
Cu 324.754 {104} (Radial)	N/A	N/A
Ni 231.604 {446} (Axial)	N/A	N/A
Zn 206.200 {463} (Axial)	N/A	N/A
Al 308.215 {109} (Radial)	246.7022 ppm	250.0000 ppm
Fe 259.940 {130} (Radial)	N/A	N/A
Fe 271.441 {124} (Radial)	100.8147 ppm	100.0000 ppm

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	STD6 15I21386	STD6 15I21386
Li 670.784 {50} (Radial)	N/A	N/A
Ca 317.933 {106} (Radial)	N/A	N/A
Ca 373.690 {90} (Radial)	251.1286 ppm	250.0000 ppm
Mg 279.079 {121} (Radial)	246.9231 ppm	250.0000 ppm
K 766.490 {44} (Radial)	50.0689 ppm	50.0000 ppm
Na 589.592 {57} (Radial)	N/A	N/A
Na 818.326 {41} (Radial)	247.2140 ppm	250.0000 ppm
Sb 206.833 {463} (Axial)	N/A	N/A
Be 313.042 {108} (Radial)	N/A	N/A
Co 228.616 {447} (Axial)	N/A	N/A
Tl 190.856 {477} (Axial)	N/A	N/A
Mn 257.610 {131} (Axial)	N/A	N/A
V 292.402 {115} (Radial)	N/A	N/A
Ti 334.941 {101} (Radial)	N/A	N/A
Mo 202.030 {467} (Axial)	N/A	N/A
B 249.678 {135} (Radial)	N/A	N/A
Sr 421.552 {80} (Radial)	N/A	N/A
Si 251.611 {134} (Axial)	N/A	N/A
Sn 189.989 {477} (Axial)	N/A	N/A
S 182.034 {485} (Axial)	49.3468 ppm	50.0000 ppm
In 230.606 {446} (Axial)	75.4250 %	
Y 360.073 {94} (Radial)	101.5734 %	
Y 360.073 {94} (Axial)	88.5949 %	
Y 224.306 {450} (Axial)	89.1114 %	
Ce 535.353 {63} (Radial)	10.0000 ppm	10.0000 ppm

	STD7 15I21306	STD7 15I21306
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	N/A	N/A
Ba 233.527 {445} (Axial)	N/A	N/A
Cd 228.802 {447} (Axial)	N/A	N/A
Cr 267.716 {126} (Axial)	N/A	N/A
Pb 220.353 {453} (Axial)	N/A	N/A
Se 196.090 {472} (Axial)	N/A	N/A
Ag 328.068 {103} (Axial)	N/A	N/A
Cu 324.754 {104} (Radial)	N/A	N/A
Ni 231.604 {446} (Axial)	N/A	N/A
Zn 206.200 {463} (Axial)	N/A	N/A
Al 308.215 {109} (Radial)	501.6453 ppm	500.0000 ppm
Fe 259.940 {130} (Radial)	N/A	N/A
Fe 271.441 {124} (Radial)	199.5629 ppm	200.0000 ppm
Li 670.784 {50} (Radial)	N/A	N/A
Ca 317.933 {106} (Radial)	N/A	N/A
Ca 373.690 {90} (Radial)	499.4194 ppm	500.0000 ppm
Mg 279.079 {121} (Radial)	501.5324 ppm	500.0000 ppm
K 766.490 {44} (Radial)	99.9428 ppm	100.0000 ppm
Na 589.592 {57} (Radial)	N/A	N/A
Na 818.326 {41} (Radial)	501.3821 ppm	500.0000 ppm
Sb 206.833 {463} (Axial)	N/A	N/A
Be 313.042 {108} (Radial)	N/A	N/A
Co 228.616 {447} (Axial)	N/A	N/A
Tl 190.856 {477} (Axial)	N/A	N/A
Mn 257.610 {131} (Axial)	N/A	N/A
V 292.402 {115} (Radial)	N/A	N/A
Ti 334.941 {101} (Radial)	N/A	N/A

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	STD7 15I21306	STD7 15I21306
Mo 202.030 {467} (Axial)	N/A	N/A
B 249.678 {135} (Radial)	N/A	N/A
Sr 421.552 {80} (Radial)	N/A	N/A
Si 251.611 {134} (Axial)	N/A	N/A
Sn 189.989 {477} (Axial)	N/A	N/A
S 182.034 {485} (Axial)	100.3116 ppm	100.0000 ppm
In 230.606 {446} (Axial)	68.4055 %	
Y 360.073 {94} (Radial)	99.6772 %	
Y 360.073 {94} (Axial)	83.8115 %	
Y 224.306 {450} (Axial)	84.5485 %	
Ce 535.353 {63} (Radial)	N/A	N/A

	STD1 15I21316	STD1 15I21316
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	0.0107 ppm	0.0100 ppm
Ba 233.527 {445} (Axial)	0.0052 ppm	0.0050 ppm
Cd 228.802 {447} (Axial)	0.0019 ppm	0.0020 ppm
Cr 267.716 {126} (Axial)	0.0105 ppm	0.0100 ppm
Pb 220.353 {453} (Axial)	0.0048 ppm	0.0050 ppm
Se 196.090 {472} (Axial)	0.0116 ppm	0.0100 ppm
Ag 328.068 {103} (Axial)	0.0041 ppm	0.0050 ppm
Cu 324.754 {104} (Radial)	0.0083 ppm	0.0100 ppm
Ni 231.604 {446} (Axial)	0.0098 ppm	0.0100 ppm
Zn 206.200 {463} (Axial)	0.0519 ppm	0.0500 ppm
Al 308.215 {109} (Radial)	0.1956 ppm	0.2000 ppm
Fe 259.940 {130} (Radial)	0.1060 ppm	0.1000 ppm
Fe 271.441 {124} (Radial)	N/A	N/A
Li 670.784 {50} (Radial)	0.0157 ppm	0.0150 ppm
Ca 317.933 {106} (Radial)	1.0135 ppm	1.0000 ppm
Ca 373.690 {90} (Radial)	N/A	N/A
Mg 279.079 {121} (Radial)	1.0297 ppm	1.0000 ppm
K 766.490 {44} (Radial)	1.0405 ppm	1.0000 ppm
Na 589.592 {57} (Radial)	1.0332 ppm	1.0000 ppm
Na 818.326 {41} (Radial)	N/A	N/A
Sb 206.833 {463} (Axial)	0.0096 ppm	0.0100 ppm
Be 313.042 {108} (Radial)	0.0022 ppm	0.0020 ppm
Co 228.616 {447} (Axial)	0.0096 ppm	0.0100 ppm
Tl 190.856 {477} (Axial)	0.0098 ppm	0.0100 ppm
Mn 257.610 {131} (Axial)	0.0103 ppm	0.0100 ppm
V 292.402 {115} (Radial)	0.0180 ppm	0.0200 ppm
Ti 334.941 {101} (Radial)	0.0499 ppm	0.0500 ppm
Mo 202.030 {467} (Axial)	0.0049 ppm	0.0050 ppm
B 249.678 {135} (Radial)	0.0518 ppm	0.0500 ppm
Sr 421.552 {80} (Radial)	0.0103 ppm	0.0100 ppm
Si 251.611 {134} (Axial)	0.0470 ppm	0.0500 ppm
Sn 189.989 {477} (Axial)	0.0490 ppm	0.0500 ppm
S 182.034 {485} (Axial)	0.8980 ppm	1.0000 ppm
In 230.606 {446} (Axial)	99.0721 %	
Y 360.073 {94} (Radial)	100.9911 %	
Y 360.073 {94} (Axial)	100.1401 %	
Y 224.306 {450} (Axial)	100.5529 %	
Ce 535.353 {63} (Radial)	N/A	N/A

	STD2 15G21064	STD2 15G21064
	Concentration average	Standard Concentration

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	STD2 15G21064	STD2 15G21064
As 189.042 {478} (Axial)	0.4854 ppm	0.5000 ppm
Ba 233.527 {445} (Axial)	0.5058 ppm	0.5000 ppm
Cd 228.802 {447} (Axial)	0.4850 ppm	0.5000 ppm
Cr 267.716 {126} (Axial)	0.4931 ppm	0.5000 ppm
Pb 220.353 {453} (Axial)	0.4897 ppm	0.5000 ppm
Se 196.090 {472} (Axial)	0.4903 ppm	0.5000 ppm
Ag 328.068 {103} (Axial)	0.4836 ppm	0.5000 ppm
Cu 324.754 {104} (Radial)	0.4887 ppm	0.5000 ppm
Ni 231.604 {446} (Axial)	0.4867 ppm	0.5000 ppm
Zn 206.200 {463} (Axial)	0.4946 ppm	0.5000 ppm
Al 308.215 {109} (Radial)	N/A	N/A
Fe 259.940 {130} (Radial)	0.5039 ppm	0.5000 ppm
Fe 271.441 {124} (Radial)	N/A	N/A
Li 670.784 {50} (Radial)	0.4947 ppm	0.5000 ppm
Ca 317.933 {106} (Radial)	N/A	N/A
Ca 373.690 {90} (Radial)	N/A	N/A
Mg 279.079 {121} (Radial)	N/A	N/A
K 766.490 {44} (Radial)	N/A	N/A
Na 589.592 {57} (Radial)	N/A	N/A
Na 818.326 {41} (Radial)	N/A	N/A
Sb 206.833 {463} (Axial)	0.4843 ppm	0.5000 ppm
Be 313.042 {108} (Radial)	0.4927 ppm	0.5000 ppm
Co 228.616 {447} (Axial)	0.4888 ppm	0.5000 ppm
Tl 190.856 {477} (Axial)	0.4866 ppm	0.5000 ppm
Mn 257.610 {131} (Axial)	0.4941 ppm	0.5000 ppm
V 292.402 {115} (Radial)	0.4889 ppm	0.5000 ppm
Ti 334.941 {101} (Radial)	0.4895 ppm	0.5000 ppm
Mo 202.030 {467} (Axial)	0.5077 ppm	0.5000 ppm
B 249.678 {135} (Radial)	N/A	N/A
Sr 421.552 {80} (Radial)	0.4929 ppm	0.5000 ppm
Si 251.611 {134} (Axial)	N/A	N/A
Sn 189.989 {477} (Axial)	0.4884 ppm	0.5000 ppm
S 182.034 {485} (Axial)	N/A	N/A
In 230.606 {446} (Axial)	99.1818 %	
Y 360.073 {94} (Radial)	102.7104 %	
Y 360.073 {94} (Axial)	101.4068 %	
Y 224.306 {450} (Axial)	101.3925 %	
Ce 535.353 {63} (Radial)	N/A	N/A

	STD3 15H06986	STD3 15H06986
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	0.9919 ppm	1.0000 ppm
Ba 233.527 {445} (Axial)	1.0183 ppm	1.0000 ppm
Cd 228.802 {447} (Axial)	1.0075 ppm	1.0000 ppm
Cr 267.716 {126} (Axial)	1.0022 ppm	1.0000 ppm
Pb 220.353 {453} (Axial)	1.0052 ppm	1.0000 ppm
Se 196.090 {472} (Axial)	1.0048 ppm	1.0000 ppm
Ag 328.068 {103} (Axial)	1.0082 ppm	1.0000 ppm
Cu 324.754 {104} (Radial)	0.9974 ppm	1.0000 ppm
Ni 231.604 {446} (Axial)	0.9984 ppm	1.0000 ppm
Zn 206.200 {463} (Axial)	1.0036 ppm	1.0000 ppm
Al 308.215 {109} (Radial)	N/A	N/A
Fe 259.940 {130} (Radial)	1.0164 ppm	1.0000 ppm
Fe 271.441 {124} (Radial)	N/A	N/A
Li 670.784 {50} (Radial)	1.0026 ppm	1.0000 ppm

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	STD3 15H06986	STD3 15H06986
Ca 317.933 {106} (Radial)	1.0117 ppm	1.0000 ppm
Ca 373.690 {90} (Radial)	N/A	N/A
Mg 279.079 {121} (Radial)	N/A	N/A
K 766.490 {44} (Radial)	N/A	N/A
Na 589.592 {57} (Radial)	1.0272 ppm	1.0000 ppm
Na 818.326 {41} (Radial)	N/A	N/A
Sb 206.833 {463} (Axial)	1.0078 ppm	1.0000 ppm
Be 313.042 {108} (Radial)	1.0083 ppm	1.0000 ppm
Co 228.616 {447} (Axial)	0.9934 ppm	1.0000 ppm
Tl 190.856 {477} (Axial)	1.0067 ppm	1.0000 ppm
Mn 257.610 {131} (Axial)	1.0075 ppm	1.0000 ppm
V 292.402 {115} (Radial)	1.0050 ppm	1.0000 ppm
Ti 334.941 {101} (Radial)	0.9983 ppm	1.0000 ppm
Mo 202.030 {467} (Axial)	1.0135 ppm	1.0000 ppm
B 249.678 {135} (Radial)	1.0094 ppm	1.0000 ppm
Sr 421.552 {80} (Radial)	1.0039 ppm	1.0000 ppm
Si 251.611 {134} (Axial)	0.9698 ppm	1.0000 ppm
Sn 189.989 {477} (Axial)	0.9963 ppm	1.0000 ppm
S 182.034 {485} (Axial)	0.9441 ppm	1.0000 ppm
In 230.606 {446} (Axial)	98.6955 %	
Y 360.073 {94} (Radial)	102.6370 %	
Y 360.073 {94} (Axial)	101.2295 %	
Y 224.306 {450} (Axial)	101.6231 %	
Ce 535.353 {63} (Radial)	N/A	N/A

	STD4 15I21305	STD4 15I21305
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	2.0077 ppm	2.0000 ppm
Ba 233.527 {445} (Axial)	2.0212 ppm	2.0000 ppm
Cd 228.802 {447} (Axial)	N/A	N/A
Cr 267.716 {126} (Axial)	2.0007 ppm	2.0000 ppm
Pb 220.353 {453} (Axial)	N/A	N/A
Se 196.090 {472} (Axial)	N/A	N/A
Ag 328.068 {103} (Axial)	N/A	N/A
Cu 324.754 {104} (Radial)	2.0041 ppm	2.0000 ppm
Ni 231.604 {446} (Axial)	2.0041 ppm	2.0000 ppm
Zn 206.200 {463} (Axial)	1.9995 ppm	2.0000 ppm
Al 308.215 {109} (Radial)	2.0592 ppm	2.0000 ppm
Fe 259.940 {130} (Radial)	1.9908 ppm	2.0000 ppm
Fe 271.441 {124} (Radial)	N/A	N/A
Li 670.784 {50} (Radial)	N/A	N/A
Ca 317.933 {106} (Radial)	2.0035 ppm	2.0000 ppm
Ca 373.690 {90} (Radial)	N/A	N/A
Mg 279.079 {121} (Radial)	N/A	N/A
K 766.490 {44} (Radial)	N/A	N/A
Na 589.592 {57} (Radial)	2.0432 ppm	2.0000 ppm
Na 818.326 {41} (Radial)	N/A	N/A
Sb 206.833 {463} (Axial)	N/A	N/A
Be 313.042 {108} (Radial)	1.9977 ppm	2.0000 ppm
Co 228.616 {447} (Axial)	2.0061 ppm	2.0000 ppm
Tl 190.856 {477} (Axial)	N/A	N/A
Mn 257.610 {131} (Axial)	1.9977 ppm	2.0000 ppm
V 292.402 {115} (Radial)	2.0003 ppm	2.0000 ppm
Ti 334.941 {101} (Radial)	2.0035 ppm	2.0000 ppm
Mo 202.030 {467} (Axial)	1.9913 ppm	2.0000 ppm

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	STD4 15I21305	STD4 15I21305
B 249.678 {135} (Radial)	1.9953 ppm	2.0000 ppm
Sr 421.552 {80} (Radial)	1.9998 ppm	2.0000 ppm
Si 251.611 {134} (Axial)	2.4501 ppm	2.0000 ppm
Sn 189.989 {477} (Axial)	2.0048 ppm	2.0000 ppm
S 182.034 {485} (Axial)	1.9113 ppm	2.0000 ppm
In 230.606 {446} (Axial)	97.4716 %	
Y 360.073 {94} (Radial)	103.8535 %	
Y 360.073 {94} (Axial)	100.4670 %	
Y 224.306 {450} (Axial)	101.3689 %	
Ce 535.353 {63} (Radial)	N/A	N/A

	STD5 15I21304	STD5 15I21304
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	N/A	N/A
Ba 233.527 {445} (Axial)	9.9936 ppm	10.0000 ppm
Cd 228.802 {447} (Axial)	N/A	N/A
Cr 267.716 {126} (Axial)	N/A	N/A
Pb 220.353 {453} (Axial)	N/A	N/A
Se 196.090 {472} (Axial)	N/A	N/A
Ag 328.068 {103} (Axial)	N/A	N/A
Cu 324.754 {104} (Radial)	N/A	N/A
Ni 231.604 {446} (Axial)	N/A	N/A
Zn 206.200 {463} (Axial)	N/A	N/A
Al 308.215 {109} (Radial)	10.0675 ppm	10.0000 ppm
Fe 259.940 {130} (Radial)	10.0000 ppm	10.0000 ppm
Fe 271.441 {124} (Radial)	10.6161 ppm	10.0000 ppm
Li 670.784 {50} (Radial)	N/A	N/A
Ca 317.933 {106} (Radial)	9.9968 ppm	10.0000 ppm
Ca 373.690 {90} (Radial)	10.8030 ppm	10.0000 ppm
Mg 279.079 {121} (Radial)	10.3786 ppm	10.0000 ppm
K 766.490 {44} (Radial)	10.0398 ppm	10.0000 ppm
Na 589.592 {57} (Radial)	9.9853 ppm	10.0000 ppm
Na 818.326 {41} (Radial)	10.3112 ppm	10.0000 ppm
Sb 206.833 {463} (Axial)	N/A	N/A
Be 313.042 {108} (Radial)	N/A	N/A
Co 228.616 {447} (Axial)	N/A	N/A
Tl 190.856 {477} (Axial)	N/A	N/A
Mn 257.610 {131} (Axial)	N/A	N/A
V 292.402 {115} (Radial)	N/A	N/A
Ti 334.941 {101} (Radial)	N/A	N/A
Mo 202.030 {467} (Axial)	N/A	N/A
B 249.678 {135} (Radial)	N/A	N/A
Sr 421.552 {80} (Radial)	N/A	N/A
Si 251.611 {134} (Axial)	9.9130 ppm	10.0000 ppm
Sn 189.989 {477} (Axial)	N/A	N/A
S 182.034 {485} (Axial)	9.8810 ppm	10.0000 ppm
In 230.606 {446} (Axial)	95.2812 %	
Y 360.073 {94} (Radial)	104.1329 %	
Y 360.073 {94} (Axial)	99.5473 %	
Y 224.306 {450} (Axial)	100.1267 %	
Ce 535.353 {63} (Radial)	N/A	N/A

	STD6 15I21386	STD6 15I21386
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	N/A	N/A

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	STD6 15I21386	STD6 15I21386
Ba 233.527 {445} (Axial)	N/A	N/A
Cd 228.802 {447} (Axial)	N/A	N/A
Cr 267.716 {126} (Axial)	N/A	N/A
Pb 220.353 {453} (Axial)	N/A	N/A
Se 196.090 {472} (Axial)	N/A	N/A
Ag 328.068 {103} (Axial)	N/A	N/A
Cu 324.754 {104} (Radial)	N/A	N/A
Ni 231.604 {446} (Axial)	N/A	N/A
Zn 206.200 {463} (Axial)	N/A	N/A
Al 308.215 {109} (Radial)	249.1154 ppm	250.0000 ppm
Fe 259.940 {130} (Radial)	N/A	N/A
Fe 271.441 {124} (Radial)	101.2306 ppm	100.0000 ppm
Li 670.784 {50} (Radial)	N/A	N/A
Ca 317.933 {106} (Radial)	N/A	N/A
Ca 373.690 {90} (Radial)	254.4052 ppm	250.0000 ppm
Mg 279.079 {121} (Radial)	251.5818 ppm	250.0000 ppm
K 766.490 {44} (Radial)	49.7906 ppm	50.0000 ppm
Na 589.592 {57} (Radial)	N/A	N/A
Na 818.326 {41} (Radial)	246.9797 ppm	250.0000 ppm
Sb 206.833 {463} (Axial)	N/A	N/A
Be 313.042 {108} (Radial)	N/A	N/A
Co 228.616 {447} (Axial)	N/A	N/A
Tl 190.856 {477} (Axial)	N/A	N/A
Mn 257.610 {131} (Axial)	N/A	N/A
V 292.402 {115} (Radial)	N/A	N/A
Ti 334.941 {101} (Radial)	N/A	N/A
Mo 202.030 {467} (Axial)	N/A	N/A
B 249.678 {135} (Radial)	N/A	N/A
Sr 421.552 {80} (Radial)	N/A	N/A
Si 251.611 {134} (Axial)	N/A	N/A
Sn 189.989 {477} (Axial)	N/A	N/A
S 182.034 {485} (Axial)	49.1896 ppm	50.0000 ppm
In 230.606 {446} (Axial)	74.5126 %	
Y 360.073 {94} (Radial)	97.0047 %	
Y 360.073 {94} (Axial)	86.1752 %	
Y 224.306 {450} (Axial)	87.9351 %	
Ce 535.353 {63} (Radial)	10.0000 ppm	10.0000 ppm

	STD7 15I21306	STD7 15I21306
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	N/A	N/A
Ba 233.527 {445} (Axial)	N/A	N/A
Cd 228.802 {447} (Axial)	N/A	N/A
Cr 267.716 {126} (Axial)	N/A	N/A
Pb 220.353 {453} (Axial)	N/A	N/A
Se 196.090 {472} (Axial)	N/A	N/A
Ag 328.068 {103} (Axial)	N/A	N/A
Cu 324.754 {104} (Radial)	N/A	N/A
Ni 231.604 {446} (Axial)	N/A	N/A
Zn 206.200 {463} (Axial)	N/A	N/A
Al 308.215 {109} (Radial)	500.4407 ppm	500.0000 ppm
Fe 259.940 {130} (Radial)	N/A	N/A
Fe 271.441 {124} (Radial)	199.3539 ppm	200.0000 ppm
Li 670.784 {50} (Radial)	N/A	N/A
Ca 317.933 {106} (Radial)	N/A	N/A

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	STD7 15I21306	STD7 15I21306
Ca 373.690 {90} (Radial)	497.7813 ppm	500.0000 ppm
Mg 279.079 {121} (Radial)	499.2015 ppm	500.0000 ppm
K 766.490 {44} (Radial)	100.1003 ppm	100.0000 ppm
Na 589.592 {57} (Radial)	N/A	N/A
Na 818.326 {41} (Radial)	501.5039 ppm	500.0000 ppm
Sb 206.833 {463} (Axial)	N/A	N/A
Be 313.042 {108} (Radial)	N/A	N/A
Co 228.616 {447} (Axial)	N/A	N/A
Tl 190.856 {477} (Axial)	N/A	N/A
Mn 257.610 {131} (Axial)	N/A	N/A
V 292.402 {115} (Radial)	N/A	N/A
Ti 334.941 {101} (Radial)	N/A	N/A
Mo 202.030 {467} (Axial)	N/A	N/A
B 249.678 {135} (Radial)	N/A	N/A
Sr 421.552 {80} (Radial)	N/A	N/A
Si 251.611 {134} (Axial)	N/A	N/A
Sn 189.989 {477} (Axial)	N/A	N/A
S 182.034 {485} (Axial)	100.4205 ppm	100.0000 ppm
In 230.606 {446} (Axial)	67.8563 %	
Y 360.073 {94} (Radial)	95.5901 %	
Y 360.073 {94} (Axial)	81.8822 %	
Y 224.306 {450} (Axial)	83.6979 %	
Ce 535.353 {63} (Radial)	N/A	N/A

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Sample list

Label	Sample Type	Repeats	Start Time
INSTBLK	UNKNOWN	3	10/15/2015 9:31:46 AM
CALBLK	BLK	3	10/15/2015 9:34:58 AM
STD1 15I21316	STD	3	10/15/2015 9:38:09 AM
STD2 15G21064	STD	3	10/15/2015 9:41:17 AM
STD3 15H06986	STD	3	10/15/2015 9:44:11 AM
STD4 15I21305	STD	3	10/15/2015 9:47:01 AM
STD5 15I21304	STD	3	10/15/2015 9:49:48 AM
STD6 15I21386	STD	3	10/15/2015 9:52:54 AM
STD7 15I21306	STD	3	10/15/2015 9:56:06 AM
ICV 15G22196	QC	3	10/15/2015 9:59:29 AM
ICB	QC	3	10/15/2015 10:02:15 AM
ICVLL 15I21316	QC	3	10/15/2015 10:05:24 AM
ICSA 15I21332	QC	3	10/15/2015 10:08:33 AM
ICSA 15I21332	QC	3	10/15/2015 10:15:28 AM
ICSAB 15I21333	QC	3	10/15/2015 10:18:43 AM
ICSA2	QC	3	10/15/2015 10:21:40 AM
ICSA3	QC	3	10/15/2015 10:24:49 AM
Ce IEC	UNKNOWN	3	10/15/2015 10:28:04 AM
INSTBLK	UNKNOWN	3	10/15/2015 10:31:16 AM
CCV 15I21330	QC	3	10/15/2015 10:34:25 AM
CCB	QC	3	10/15/2015 10:37:10 AM
CCVLL 15I21316	QC	3	10/15/2015 10:40:23 AM
L793169-09 WG821784	UNKNOWN	3	10/15/2015 10:43:35 AM
BLANK WG821915	UNKNOWN	3	10/15/2015 10:46:38 AM
zLCS WG821915	UNKNOWN	3	10/15/2015 10:49:46 AM
LCSD WG821915	UNKNOWN	3	10/15/2015 10:52:36 AM
L793548-01 WG821915	UNKNOWN	3	10/15/2015 10:55:22 AM
zSD L793548-01 WG821915	UNKNOWN	3	10/15/2015 10:58:28 AM
MS L793548-01 WG821915	UNKNOWN	3	10/15/2015 11:01:40 AM
MSD L793548-01 WG821915	UNKNOWN	3	10/15/2015 11:04:26 AM
L793548-02 WG821915	UNKNOWN	3	10/15/2015 11:07:14 AM
L793548-03 WG821915	UNKNOWN	3	10/15/2015 11:10:22 AM
CCV 15I21330	QC	3	10/15/2015 11:13:27 AM
CCB	QC	3	10/15/2015 11:16:10 AM
L793548-04 WG821915	UNKNOWN	3	10/15/2015 11:19:22 AM
L794219-01 WG821523	UNKNOWN	3	10/15/2015 11:22:31 AM
L793313-01 WG821224	UNKNOWN	3	10/15/2015 11:25:49 AM
L792437-08 WG821507	UNKNOWN	3	10/15/2015 11:28:54 AM
L792437-10 WG821507	UNKNOWN	3	10/15/2015 11:31:54 AM
L792437-11 WG821507	UNKNOWN	3	10/15/2015 11:35:06 AM
L792437-22 WG821507	UNKNOWN	3	10/15/2015 11:38:25 AM
L792437-24 WG821507	UNKNOWN	3	10/15/2015 11:41:27 AM
LCS WG821915	UNKNOWN	3	10/15/2015 11:44:28 AM
LCS WG821915	UNKNOWN	3	10/15/2015 11:49:32 AM
LCS WG821915	UNKNOWN	3	10/15/2015 11:50:27 AM
SD L793548-01 WG821915	UNKNOWN	3	10/15/2015 11:53:16 AM
CCV 15I21330	QC	3	10/15/2015 11:56:24 AM
CCB	QC	3	10/15/2015 11:59:10 AM
BLANK WG821550	UNKNOWN	3	10/15/2015 12:02:20 PM
LCS WG821550	UNKNOWN	3	10/15/2015 12:05:33 PM
LCSD WG821550	UNKNOWN	3	10/15/2015 12:08:21 PM
L793535-02 WG821550	UNKNOWN	3	10/15/2015 12:11:07 PM
SD L793535-02 WG821550	UNKNOWN	3	10/15/2015 12:14:04 PM
PS L793535-02 WG821550	UNKNOWN	3	10/15/2015 12:18:15 PM

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Label	Sample Type	Repeats	Start Time
MS L793535-02 WG821550	UNKNOWN	3	10/15/2015 12:20:57 PM
MSD L793535-02 WG821550	UNKNOWN	3	10/15/2015 12:23:42 PM
L793503-04 WG821550	UNKNOWN	3	10/15/2015 12:26:26 PM
L793503-08 WG821550	UNKNOWN	3	10/15/2015 12:29:22 PM
CCV 15I21330	QC	3	10/15/2015 12:32:23 PM
CCB	QC	3	10/15/2015 12:35:10 PM
L793505-02 WG821550	UNKNOWN	3	10/15/2015 12:38:22 PM
L793505-04 WG821550	UNKNOWN	3	10/15/2015 12:41:22 PM
L793535-03 WG821550	UNKNOWN	3	10/15/2015 12:44:22 PM
L793535-04 WG821550	UNKNOWN	3	10/15/2015 12:47:21 PM
L793562-01 WG821550	UNKNOWN	3	10/15/2015 12:50:23 PM
L793562-02 WG821550	UNKNOWN	3	10/15/2015 12:53:20 PM
L793754-01 WG821550	UNKNOWN	3	10/15/2015 12:56:18 PM
L793754-03 WG821550	UNKNOWN	3	10/15/2015 12:59:13 PM
L793799-01 WG821550	UNKNOWN	3	10/15/2015 1:02:25 PM
L793799-02 WG821550	UNKNOWN	3	10/15/2015 1:05:29 PM
CCV 15I21330	QC	3	10/15/2015 1:08:25 PM
CCB	QC	3	10/15/2015 1:11:09 PM
L793802-01 WG821550	UNKNOWN	3	10/15/2015 1:14:19 PM
L793802-03 WG821550	UNKNOWN	3	10/15/2015 1:17:15 PM
L793802-04 WG821550	UNKNOWN	3	10/15/2015 1:20:10 PM
L793802-05 WG821550	UNKNOWN	3	10/15/2015 1:23:24 PM
L793802-06 WG821550	UNKNOWN	3	10/15/2015 1:26:19 PM
L793802-07 WG821550	UNKNOWN	3	10/15/2015 1:29:25 PM
L793803-01 WG821550	UNKNOWN	3	10/15/2015 1:32:20 PM
L793441-06 WG821784	UNKNOWN	3	10/15/2015 1:35:16 PM
L792437-15 WG821507	UNKNOWN	3	10/15/2015 1:38:26 PM
CCV 15I21330	QC	3	10/15/2015 1:41:45 PM
CCB	QC	3	10/15/2015 1:44:30 PM
L793802-03 WG821550	UNKNOWN	3	10/15/2015 1:56:57 PM
L793802-04 WG821550	UNKNOWN	3	10/15/2015 1:59:56 PM
L793802-05 WG821550	UNKNOWN	3	10/15/2015 2:02:48 PM
CCV 15I21330	QC	3	10/15/2015 2:05:42 PM
CCB	QC	3	10/15/2015 2:08:30 PM
BLANK WG822084	UNKNOWN	3	10/15/2015 2:19:40 PM
LCS WG822084	UNKNOWN	3	10/15/2015 2:22:54 PM
LCSD WG822084	UNKNOWN	3	10/15/2015 2:25:43 PM
L793952-01 WG822084	UNKNOWN	3	10/15/2015 2:28:30 PM
SD L793952-01 WG822084	UNKNOWN	3	10/15/2015 2:31:38 PM
MS L793952-01 WG822084	UNKNOWN	3	10/15/2015 2:34:45 PM
MSD L793952-01 WG822084	UNKNOWN	3	10/15/2015 2:37:31 PM
L793311-01 WG822084	UNKNOWN	3	10/15/2015 2:40:16 PM
L793952-02 WG822084	UNKNOWN	3	10/15/2015 2:43:18 PM
L794126-02 WG822084	UNKNOWN	3	10/15/2015 2:46:26 PM
CCV 15I21330	QC	3	10/15/2015 2:49:28 PM
CCB	QC	3	10/15/2015 2:52:15 PM
L794128-02 WG822084	UNKNOWN	3	10/15/2015 2:55:25 PM
L794220-01 WG822084	UNKNOWN	3	10/15/2015 2:58:31 PM
L794250-01 WG822084	UNKNOWN	3	10/15/2015 3:01:36 PM
L794271-01 WG822084	UNKNOWN	3	10/15/2015 3:04:42 PM
L794277-01 WG822084	UNKNOWN	3	10/15/2015 3:07:56 PM
L794284-01 WG822084	UNKNOWN	3	10/15/2015 3:11:01 PM
L794290-01 WG822084	UNKNOWN	3	10/15/2015 3:14:07 PM
L794305-01 WG822084	UNKNOWN	3	10/15/2015 3:17:22 PM
L794337-01 WG822084	UNKNOWN	3	10/15/2015 3:20:27 PM

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Label	Sample Type	Repeats	Start Time
MS L794337-01 WG822084	UNKNOWN	3	10/15/2015 3:23:36 PM
CCV 15I21330	QC	3	10/15/2015 3:26:23 PM
CCB	QC	3	10/15/2015 3:29:11 PM
MSD L794337-01 WG822084	UNKNOWN	3	10/15/2015 3:32:22 PM
L794362-01 WG822084	UNKNOWN	3	10/15/2015 3:35:09 PM
L794375-01 WG822084	UNKNOWN	3	10/15/2015 3:38:16 PM
L794410-02 WG822084	UNKNOWN	3	10/15/2015 3:41:39 PM
L794413-01 WG822084	UNKNOWN	3	10/15/2015 3:44:46 PM
L794414-01 WG822084	UNKNOWN	3	10/15/2015 3:47:50 PM
L794437-01 WG822084	UNKNOWN	3	10/15/2015 3:50:54 PM
L794459-01 WG822084	UNKNOWN	3	10/15/2015 3:54:00 PM
CCV 15I21330	QC	3	10/15/2015 3:57:28 PM
CCB	QC	3	10/15/2015 4:00:15 PM
BLANK WG821543	UNKNOWN	3	10/15/2015 4:03:24 PM
LCS WG821543	UNKNOWN	3	10/15/2015 4:06:39 PM
LCSD WG821543	UNKNOWN	3	10/15/2015 4:09:28 PM
L793892-06 WG821543	UNKNOWN	3	10/15/2015 4:12:19 PM
SD L793892-06 WG821543	UNKNOWN	3	10/15/2015 4:15:25 PM
MS L793892-06 WG821543	UNKNOWN	3	10/15/2015 4:18:30 PM
MSD L793892-06 WG821543	UNKNOWN	3	10/15/2015 4:21:16 PM
L793892-01 WG821543	UNKNOWN	3	10/15/2015 4:24:07 PM
L793892-02 WG821543	UNKNOWN	3	10/15/2015 4:27:20 PM
L793892-03 WG821543	UNKNOWN	3	10/15/2015 4:30:24 PM
CCV 15I21330	QC	3	10/15/2015 4:33:27 PM
CCB	QC	3	10/15/2015 4:36:14 PM
L793892-04 WG821543	UNKNOWN	3	10/15/2015 4:39:23 PM
L793892-05 WG821543	UNKNOWN	3	10/15/2015 4:42:35 PM
L793892-07 WG821543	UNKNOWN	3	10/15/2015 4:45:37 PM
L793892-08 WG821543	UNKNOWN	3	10/15/2015 4:48:45 PM
L793892-09 WG821543	UNKNOWN	3	10/15/2015 4:51:47 PM
L793892-10 WG821543	UNKNOWN	3	10/15/2015 4:54:51 PM
L793892-11 WG821543	UNKNOWN	3	10/15/2015 4:57:57 PM
L793892-12 WG821543	UNKNOWN	3	10/15/2015 5:01:04 PM
L793892-13 WG821543	UNKNOWN	3	10/15/2015 5:04:07 PM
L793892-14 WG821543	UNKNOWN	3	10/15/2015 5:07:10 PM
CCV 15I21330	QC	3	10/15/2015 5:10:20 PM
CCB	QC	3	10/15/2015 5:13:05 PM
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L793918-02 WG821543	UNKNOWN	3	10/15/2015 5:19:18 PM
L793918-03 WG821543	UNKNOWN	3	10/15/2015 5:22:20 PM
L793919-01 WG821543	UNKNOWN	3	10/15/2015 5:25:24 PM
L793919-02 WG821543	UNKNOWN	3	10/15/2015 5:28:24 PM
CCV 15I21330	QC	3	10/15/2015 5:31:31 PM
CCB	QC	3	10/15/2015 5:34:15 PM
CCVLL 15I21316	QC	3	10/15/2015 5:37:25 PM
BLANK WG821547	UNKNOWN	3	10/15/2015 5:40:38 PM
LCS WG821547	UNKNOWN	3	10/15/2015 5:43:51 PM
LCSD WG821547	UNKNOWN	3	10/15/2015 5:46:40 PM
L793818-05 WG821547	UNKNOWN	3	10/15/2015 5:49:27 PM
SD L793818-05 WG821547	UNKNOWN	3	10/15/2015 5:52:40 PM
MS L793818-05 WG821547	UNKNOWN	3	10/15/2015 5:55:50 PM
MSD L793818-05 WG821547	UNKNOWN	3	10/15/2015 6:02:27 PM
L793818-01 WG821547	UNKNOWN	3	10/15/2015 6:05:14 PM
L793818-02 WG821547	UNKNOWN	3	10/15/2015 6:08:19 PM
L793818-03 WG821547	UNKNOWN	3	10/15/2015 6:11:23 PM

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Label	Sample Type	Repeats	Start Time
CCV 15I21330	QC	3	10/15/2015 6:14:28 PM
CCB	QC	3	10/15/2015 6:17:15 PM
L793818-04 WG821547	UNKNOWN	3	10/15/2015 6:20:25 PM
L793839-16 WG821547	UNKNOWN	3	10/15/2015 6:23:31 PM
L793852-08 WG821547	UNKNOWN	3	10/15/2015 6:26:41 PM
L793852-09 WG821547	UNKNOWN	3	10/15/2015 6:29:52 PM
L793852-10 WG821547	UNKNOWN	3	10/15/2015 6:32:51 PM
L793852-11 WG821547	UNKNOWN	3	10/15/2015 6:35:55 PM
L793878-03 WG821547	UNKNOWN	3	10/15/2015 6:39:03 PM
L793878-04 WG821547	UNKNOWN	3	10/15/2015 6:42:18 PM
L793878-05 WG821547	UNKNOWN	3	10/15/2015 6:45:20 PM
L793878-06 WG821547	UNKNOWN	3	10/15/2015 6:48:34 PM
CCV 15I21330	QC	3	10/15/2015 6:51:46 PM
CCB	QC	3	10/15/2015 6:54:33 PM
L793878-07 WG821547	UNKNOWN	3	10/15/2015 6:57:42 PM
L793878-08 WG821547	UNKNOWN	3	10/15/2015 7:00:57 PM
L793879-01 WG821547	UNKNOWN	3	10/15/2015 7:04:10 PM
L793994-01 WG821547	UNKNOWN	3	10/15/2015 7:07:17 PM
L794016-01 WG821547	UNKNOWN	3	10/15/2015 7:10:31 PM
CCV 15I21330	QC	3	10/15/2015 7:14:04 PM
CCB	QC	3	10/15/2015 7:16:48 PM
CCVLL 15I21316	QC	3	10/15/2015 7:27:32 PM
ICSA 15I21332	QC	3	10/15/2015 7:30:42 PM
ICSAB 15I21333	QC	3	10/15/2015 7:33:56 PM
INSTBLK	UNKNOWN	3	10/15/2015 7:36:54 PM
BLANK WG821547	UNKNOWN	3	10/15/2015 8:04:59 PM
BLANK WG821547	UNKNOWN	3	10/15/2015 8:07:58 PM
LCS WG821547	UNKNOWN	3	10/15/2015 8:11:07 PM
LCSD WG821547	UNKNOWN	3	10/15/2015 8:13:55 PM
L793818-05 WG821547	UNKNOWN	3	10/15/2015 8:16:44 PM
SD L793818-05 WG821547	UNKNOWN	3	10/15/2015 8:19:57 PM
MS L793818-05 WG821547	UNKNOWN	3	10/15/2015 8:23:10 PM
MSD L793818-05 WG821547	UNKNOWN	3	10/15/2015 8:25:59 PM
L794016-01 WG821547	UNKNOWN	3	10/15/2015 8:28:47 PM
L794016-01 WG821547	UNKNOWN	3	10/15/2015 8:32:00 PM
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CCB	QC	3	10/15/2015 8:37:58 PM
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L794437-01 WG822084	UNKNOWN	3	10/15/2015 8:44:14 PM
L794459-01 WG822084	UNKNOWN	3	10/15/2015 8:47:23 PM
L794459-01 WG822084	UNKNOWN	3	10/15/2015 8:50:51 PM
CCV 15I21330	QC	3	10/15/2015 8:53:58 PM
CCB	QC	3	10/15/2015 8:56:42 PM
INSTBLK	UNKNOWN	3	10/15/2015 9:31:32 PM
CALBLK	BLK	3	10/15/2015 9:34:47 PM
STD1 15I21316	STD	3	10/15/2015 9:37:57 PM
STD2 15G21064	STD	3	10/15/2015 9:41:07 PM
STD3 15H06986	STD	3	10/15/2015 9:44:05 PM
STD4 15I21305	STD	3	10/15/2015 9:46:57 PM
STD5 15I21304	STD	3	10/15/2015 9:49:47 PM
STD6 15I21386	STD	3	10/15/2015 9:52:52 PM
STD7 15I21306	STD	3	10/15/2015 9:56:06 PM
CCV 15I21330	QC	3	10/15/2015 9:59:27 PM
CCVLL 15I21316	QC	3	10/15/2015 10:02:14 PM
CCB	QC	3	10/15/2015 10:19:28 PM

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Label	Sample Type	Repeats	Start Time
CCV 15I21330	QC	3	10/15/2015 10:34:07 PM
CCB	QC	3	10/15/2015 10:36:57 PM
CCVLL 15I21316	QC	3	10/15/2015 10:40:09 PM
BLANK WG822065	UNKNOWN	3	10/15/2015 10:43:18 PM
LCS WG822065	UNKNOWN	3	10/15/2015 10:46:29 PM
LCSD WG822065	UNKNOWN	3	10/15/2015 10:49:18 PM
L793512-01 WG822065	UNKNOWN	3	10/15/2015 10:52:05 PM
SD L793512-01 WG822065	UNKNOWN	3	10/15/2015 10:55:09 PM
MS L793512-01 WG822065	UNKNOWN	3	10/15/2015 10:58:18 PM
MSD L793512-01 WG822065	UNKNOWN	3	10/15/2015 11:01:04 PM
L793600-01 WG822065	UNKNOWN	3	10/15/2015 11:03:49 PM
L793949-01 WG822065	UNKNOWN	3	10/15/2015 11:07:02 PM
L793965-01 WG822065	UNKNOWN	3	10/15/2015 11:10:08 PM
CCV 15I21330	QC	3	10/15/2015 11:13:21 PM
CCB	QC	3	10/15/2015 11:16:06 PM
L794028-01 WG822065	UNKNOWN	3	10/15/2015 11:19:15 PM
L794080-01 WG822065	UNKNOWN	3	10/15/2015 11:22:29 PM
L794080-02 WG822065	UNKNOWN	3	10/15/2015 11:25:34 PM
L794090-01 WG822065	UNKNOWN	3	10/15/2015 11:28:40 PM
L794090-02 WG822065	UNKNOWN	3	10/15/2015 11:31:41 PM
L794118-01 WG822065	UNKNOWN	3	10/15/2015 11:34:45 PM
L794127-01 WG822065	UNKNOWN	3	10/15/2015 11:37:50 PM
L794140-01 WG822065	UNKNOWN	3	10/15/2015 11:40:56 PM
L794140-02 WG822065	UNKNOWN	3	10/15/2015 11:44:02 PM
L794166-01 WG822065	UNKNOWN	3	10/15/2015 11:47:08 PM
CCV 15I21330	QC	3	10/15/2015 11:50:13 PM
CCB	QC	3	10/15/2015 11:53:06 PM
L794201-01 WG822065	UNKNOWN	3	10/15/2015 11:56:18 PM
L794202-01 WG822065	UNKNOWN	3	10/15/2015 11:59:22 PM
L794235-01 WG822065	UNKNOWN	3	10/16/2015 12:02:27 AM
L794252-01 WG822065	UNKNOWN	3	10/16/2015 12:05:32 AM
L794271-03 WG822065	UNKNOWN	3	10/16/2015 12:08:40 AM
L793571-01 WG822065	UNKNOWN	3	10/16/2015 12:11:53 AM
MS L793571-01 WG822065	UNKNOWN	3	10/16/2015 12:15:00 AM
MSD L793571-01 WG822065	UNKNOWN	3	10/16/2015 12:17:47 AM
CCV 15I21330	QC	3	10/16/2015 12:20:34 AM
CCB	QC	3	10/16/2015 12:23:20 AM
BLANK WG821521	UNKNOWN	3	10/16/2015 12:26:30 AM
LCS WG821521	UNKNOWN	3	10/16/2015 12:29:41 AM
LCSD WG821521	UNKNOWN	3	10/16/2015 12:32:54 AM
L793678-02 WG821521	UNKNOWN	3	10/16/2015 12:35:44 AM
SD L793678-02 WG821521	UNKNOWN	3	10/16/2015 12:38:50 AM
MS L793678-02 WG821521	UNKNOWN	3	10/16/2015 12:41:55 AM
MSD L793678-02 WG821521	UNKNOWN	3	10/16/2015 12:44:41 AM
L793616-01 WG821521	UNKNOWN	3	10/16/2015 12:47:30 AM
L793680-01 WG821521	UNKNOWN	3	10/16/2015 12:50:37 AM
L793702-01 WG821521	UNKNOWN	3	10/16/2015 12:53:43 AM
CCV 15I21330	QC	3	10/16/2015 12:56:47 AM
CCB	QC	3	10/16/2015 12:59:32 AM
L793702-02 WG821521	UNKNOWN	3	10/16/2015 1:02:45 AM
L793702-03 WG821521	UNKNOWN	3	10/16/2015 1:05:58 AM
L793702-04 WG821521	UNKNOWN	3	10/16/2015 1:09:01 AM
L793702-05 WG821521	UNKNOWN	3	10/16/2015 1:12:12 AM
L793702-06 WG821521	UNKNOWN	3	10/16/2015 1:15:13 AM
L793702-07 WG821521	UNKNOWN	3	10/16/2015 1:18:16 AM

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Label	Sample Type	Repeats	Start Time
L793728-01 WG821521	UNKNOWN	3	10/16/2015 1:21:20 AM
L793735-01 WG821521	UNKNOWN	3	10/16/2015 1:24:31 AM
L793743-01 WG821521	UNKNOWN	3	10/16/2015 1:27:24 AM
L793765-01 WG821521	UNKNOWN	3	10/16/2015 1:30:37 AM
CCV 15I21330	QC	3	10/16/2015 1:33:41 AM
CCB	QC	3	10/16/2015 1:36:25 AM
L793766-01 WG821521	UNKNOWN	3	10/16/2015 1:39:35 AM
L793768-01 WG821521	UNKNOWN	3	10/16/2015 1:42:38 AM
L793774-01 WG821521	UNKNOWN	3	10/16/2015 1:45:45 AM
L793778-01 WG821521	UNKNOWN	3	10/16/2015 1:48:49 AM
L793812-01 WG821521	UNKNOWN	3	10/16/2015 1:52:00 AM
L793789-01 WG821521	UNKNOWN	3	10/16/2015 1:55:12 AM
MS L793789-01 WG821521	UNKNOWN	3	10/16/2015 1:58:14 AM
MSD L793789-01 WG821521	UNKNOWN	3	10/16/2015 2:01:00 AM
CCV 15I21330	QC	3	10/16/2015 2:03:47 AM
CCB	QC	3	10/16/2015 2:06:33 AM
BLANK WG821540	UNKNOWN	3	10/16/2015 2:09:45 AM
LCS WG821540	UNKNOWN	3	10/16/2015 2:12:55 AM
LCSD WG821540	UNKNOWN	3	10/16/2015 2:15:42 AM
L793791-25 WG821540	UNKNOWN	3	10/16/2015 2:18:30 AM
SD L793791-25 WG821540	UNKNOWN	3	10/16/2015 2:21:43 AM
MS L793791-25 WG821540	UNKNOWN	3	10/16/2015 2:24:55 AM
MSD L793791-25 WG821540	UNKNOWN	3	10/16/2015 2:27:49 AM
L793703-01 WG821540	UNKNOWN	3	10/16/2015 2:30:44 AM
L793703-02 WG821540	UNKNOWN	3	10/16/2015 2:33:46 AM
L793703-03 WG821540	UNKNOWN	3	10/16/2015 2:36:50 AM
CCV 15I21330	QC	3	10/16/2015 2:39:52 AM
CCB	QC	3	10/16/2015 2:42:36 AM
L793703-04 WG821540	UNKNOWN	3	10/16/2015 2:45:47 AM
L793703-05 WG821540	UNKNOWN	3	10/16/2015 2:48:54 AM
L793703-06 WG821540	UNKNOWN	3	10/16/2015 2:51:57 AM
L793772-01 WG821540	UNKNOWN	3	10/16/2015 2:55:01 AM
L793772-02 WG821540	UNKNOWN	3	10/16/2015 2:58:13 AM
L793772-03 WG821540	UNKNOWN	3	10/16/2015 3:01:19 AM
L793791-23 WG821540	UNKNOWN	3	10/16/2015 3:04:31 AM
L793791-26 WG821540	UNKNOWN	3	10/16/2015 3:07:44 AM
L793852-08 WG821540	UNKNOWN	3	10/16/2015 3:10:59 AM
L793852-09 WG821540	UNKNOWN	3	10/16/2015 3:14:04 AM
CCV 15I21330	QC	3	10/16/2015 3:17:10 AM
CCB	QC	3	10/16/2015 3:19:56 AM
L793852-10 WG821540	UNKNOWN	3	10/16/2015 3:23:06 AM
L793852-11 WG821540	UNKNOWN	3	10/16/2015 3:26:08 AM
BLANK WG822023	UNKNOWN	3	10/16/2015 3:29:15 AM
LCS WG822023	UNKNOWN	3	10/16/2015 3:32:26 AM
LCSD WG822023	UNKNOWN	3	10/16/2015 3:35:13 AM
L793633-06 WG822023	UNKNOWN	3	10/16/2015 3:38:00 AM
SD L793633-06 WG822023	UNKNOWN	3	10/16/2015 3:41:09 AM
PS L793633-06 WG822023	UNKNOWN	3	10/16/2015 3:44:16 AM
MS L793633-06 WG822023	UNKNOWN	3	10/16/2015 3:47:09 AM
MSD L793633-06 WG822023	UNKNOWN	3	10/16/2015 3:50:00 AM
CCV 15I21330	QC	3	10/16/2015 3:52:52 AM
CCB	QC	3	10/16/2015 3:55:36 AM
L793633-07 WG822023	UNKNOWN	3	10/16/2015 3:58:47 AM
L793633-08 WG822023	UNKNOWN	3	10/16/2015 4:01:48 AM
L793633-11 WG822023	UNKNOWN	3	10/16/2015 4:04:58 AM

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Label	Sample Type	Repeats	Start Time
L793633-12 WG822023	UNKNOWN	3	10/16/2015 4:08:06 AM
L793633-13 WG822023	UNKNOWN	3	10/16/2015 4:11:04 AM
L793633-14 WG822023	UNKNOWN	3	10/16/2015 4:14:04 AM
L793633-15 WG822023	UNKNOWN	3	10/16/2015 4:17:13 AM
L793633-16 WG822023	UNKNOWN	3	10/16/2015 4:20:26 AM
L793633-17 WG822023	UNKNOWN	3	10/16/2015 4:23:33 AM
L793633-18 WG822023	UNKNOWN	3	10/16/2015 4:26:42 AM
CCV 15I21330	QC	3	10/16/2015 4:29:52 AM
CCB	QC	3	10/16/2015 4:32:38 AM
L793633-19 WG822023	UNKNOWN	3	10/16/2015 4:35:47 AM
L793633-20 WG822023	UNKNOWN	3	10/16/2015 4:38:48 AM
L793633-21 WG822023	UNKNOWN	3	10/16/2015 4:41:51 AM
L793633-22 WG822023	UNKNOWN	3	10/16/2015 4:44:52 AM
L793633-23 WG822023	UNKNOWN	3	10/16/2015 4:47:52 AM
L793633-24 WG822023	UNKNOWN	3	10/16/2015 4:51:00 AM
L793837-03 WG822023	UNKNOWN	3	10/16/2015 4:54:07 AM
L793837-04 WG822023	UNKNOWN	3	10/16/2015 4:57:34 AM
BLANK WG822336	UNKNOWN	3	10/16/2015 5:00:27 AM
LCS WG822336	UNKNOWN	3	10/16/2015 5:03:39 AM
CCV 15I21330	QC	3	10/16/2015 5:06:25 AM
CCB	QC	3	10/16/2015 5:09:10 AM
LCSD WG822336	UNKNOWN	3	10/16/2015 5:12:21 AM
L794639-02 WG822336	UNKNOWN	3	10/16/2015 5:15:11 AM
SD L794639-02 WG822336	UNKNOWN	3	10/16/2015 5:18:26 AM
PS L794639-02 WG822336	UNKNOWN	3	10/16/2015 5:21:29 AM
MS L794639-02 WG822336	UNKNOWN	3	10/16/2015 5:24:31 AM
MSD L794639-02 WG822336	UNKNOWN	3	10/16/2015 5:27:31 AM
L794639-01 WG822336	UNKNOWN	3	10/16/2015 5:30:29 AM
L794639-03 WG822336	UNKNOWN	3	10/16/2015 5:33:28 AM
L794639-04 WG822336	UNKNOWN	3	10/16/2015 5:36:56 AM
L794639-05 WG822336	UNKNOWN	3	10/16/2015 5:40:13 AM
CCV 15I21330	QC	3	10/16/2015 5:43:41 AM
CCB	QC	3	10/16/2015 5:46:30 AM
L794639-06 WG822336	UNKNOWN	3	10/16/2015 5:49:41 AM
L794639-07 WG822336	UNKNOWN	3	10/16/2015 5:52:48 AM
L794639-08 WG822336	UNKNOWN	3	10/16/2015 5:55:53 AM
L794639-09 WG822336	UNKNOWN	3	10/16/2015 5:58:59 AM
CCV 15I21330	QC	3	10/16/2015 6:01:56 AM
CCB	QC	3	10/16/2015 6:04:45 AM
CCVLL 15I21316	QC	3	10/16/2015 6:07:55 AM
ICSA 15I21332	QC	3	10/16/2015 6:11:05 AM
CCV 15I21330	QC	3	10/16/2015 6:16:02 AM
CCB	QC	3	10/16/2015 6:18:50 AM
CCVLL 15I21316	QC	3	10/16/2015 6:22:01 AM
ICSA 15I21332	QC	3	10/16/2015 6:25:11 AM
ICSAB 15I21333	QC	3	10/16/2015 6:28:24 AM
INSTBLK	UNKNOWN	3	10/16/2015 6:31:22 AM
BLANK WG822152	UNKNOWN	3	
LCS WG822152	UNKNOWN	3	
LCSD WG822152	UNKNOWN	3	
L793736-01 WG822152	UNKNOWN	3	
SD L793736-01 WG822152	UNKNOWN	3	
MS L793736-01 WG822152	UNKNOWN	3	
CCV 15I21330	QC	3	
CCB	QC	3	

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Label	Sample Type	Repeats	Start Time
MSD L793736-01 WG822152	UNKNOWN	3	
L793736-03 WG822152	UNKNOWN	3	
L793736-04 WG822152	UNKNOWN	3	
L793736-05 WG822152	UNKNOWN	3	
L793736-06 WG822152	UNKNOWN	3	
L794042-01 WG822152	UNKNOWN	3	
L794056-01 WG822152	UNKNOWN	3	
L794158-01 WG822152	UNKNOWN	3	
L794220-01 WG822084	UNKNOWN	3	
L794437-01 WG822084	UNKNOWN	3	

Comprehensive sample report

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INSTBLK

Sample Type UNKNOWN Analysis Date 10/15/2015 9:31:46 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0001 ppm	-0.0006 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	-0.002 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 3	0.003 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	35,622.0 %	394.5 %	114.2 %	23.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0005 ppm	-0.0006 ppm	0.0006 ppm	0.0000 ppm
Concentration per Run 1	0.000 ppm	-0.001 ppm	0.001 ppm	-0.007 ppm
Concentration per Run 2	0.001 ppm	0.005 ppm	0.001 ppm	0.009 ppm
Concentration per Run 3	0.000 ppm	-0.006 ppm	0.001 ppm	-0.002 ppm
Concentration RSD	197.6 %	837.8 %	10.8 %	22,961.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0075 ppm	0.0023 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.008 ppm	0.006 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	-0.010 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.024 ppm	0.000 ppm
Concentration RSD	561.7 %	116.0 %	227.6 %	152.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0600 ppm	0.0001 ppm	0.0026 ppm	0.0038 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.010 ppm	0.034 ppm
Concentration per Run 2	0.082 ppm	0.000 ppm	-0.005 ppm	-0.010 ppm
Concentration per Run 3	0.097 ppm	0.000 ppm	0.003 ppm	-0.012 ppm
Concentration RSD	85.6 %	332.4 %	288.3 %	679.8 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0055 ppm	-0.0047 ppm	0.0042 ppm	0.0282 ppm
Concentration per Run 1	-0.050 ppm	-0.026 ppm	-0.001 ppm	-0.024 ppm
Concentration per Run 2	0.021 ppm	0.034 ppm	0.002 ppm	-0.028 ppm
Concentration per Run 3	0.013 ppm	-0.022 ppm	0.011 ppm	0.137 ppm
Concentration RSD	702.0 %	719.4 %	150.7 %	333.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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QTEGRA

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm	0.0001 ppm	0.0007 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	3,915.5 %	919.1 %	233.2 %	151.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0000 ppm	0.0032 ppm	0.0011 ppm	0.0003 ppm
Concentration per Run 1	0.000 ppm	0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.006 ppm	0.001 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	0.003 ppm	0.001 ppm
Concentration RSD	244.6 %	86.5 %	140.6 %	93.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0021 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	0.006 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	-0.005 ppm	0.000 ppm	0.001 ppm	0.000 ppm
Concentration per Run 3	-0.007 ppm	0.000 ppm	0.001 ppm	0.000 ppm
Concentration RSD	333.3 %	447.2 %	8,316.2 %	63.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0033 ppm	100.0029 %	100.5592 %	100.8310 %
Concentration per Run 1	0.001 ppm	99.924 %	100.759 %	100.802 %
Concentration per Run 2	0.001 ppm	100.099 %	99.890 %	101.049 %
Concentration per Run 3	0.008 ppm	99.987 %	101.029 %	100.642 %
Concentration RSD	110.2 %	0.1 %	0.6 %	0.2 %
Concentration SD	0.0 ppm	0.1 %	0.6 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.0638 %	0.0299 ppm
Concentration per Run 1	99.982 %	0.030 ppm
Concentration per Run 2	100.278 %	0.037 ppm
Concentration per Run 3	99.931 %	0.023 ppm
Concentration RSD	0.2 %	22.8 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	3 cps	1 cps	2 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	0 cps	-12 cps	13 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	2 cps	12 cps	4 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2 cps	27 cps	97 cps	26 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	-72 cps	-43 cps	-12 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-2 cps	-2 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	15 cps	-1 cps	4 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-25 cps	53 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-1 cps	4,739 cps	8,140 cps	165,815 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,696 cps	4 cps

Comprehensive sample report

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CALBLK

Sample Type BLK Analysis Date 10/15/2015 9:34:58 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	-0.1 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm

	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	0.2 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	-0.2 %	1.7 %
Concentration SD	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	-0.4 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	-0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm

	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	0.1 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	1.3 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	0.0 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm

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	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	270.0 %	-0.3 %
Concentration SD	0.0 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	-0.2 %	-0.4 %
Concentration SD	0.0 ppm	0.1 ppm

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	0.3 %	-1.3 %
Concentration SD	0.0 ppm	0.0 ppm

	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	-0.2 %	-0.2 %
Concentration SD	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	0.2 %	-0.5 %
Concentration SD	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	1.8 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	0.2 %	-0.1 %
Concentration SD	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.0000 ppm	100.0000 %
Concentration per Run	0.000 ppm	100.000 %
Concentration RSD	-0.2 %	
Concentration SD	0.0 ppm	

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	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	100.0000 %	100.0000 %
Concentration per Run	100.000 %	100.000 %
Concentration RSD		
Concentration SD		

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.0000 %	0.0000 ppm
Concentration per Run	100.000 %	0.000 ppm
Concentration RSD		2,113,746,411,612,410.0 %
Concentration SD		0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	3 cps	2 cps	7 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	0 cps	-17 cps	13 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	3 cps	11 cps	2 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	26 cps	95 cps	24 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	-69 cps	-48 cps	-15 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-2 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	16 cps	-2 cps	2 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-25 cps	53 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-2 cps	4,738 cps	8,094 cps	164,449 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,686 cps	-5 cps

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STD1 15I21316

Sample Type STD Analysis Date 10/15/2015 9:38:09 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0127 ppm	0.0054 ppm	0.0020 ppm	0.0100 ppm
Concentration per Run 1	0.011 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration per Run 2	0.012 ppm	0.005 ppm	0.002 ppm	0.009 ppm
Concentration per Run 3	0.015 ppm	0.005 ppm	0.002 ppm	0.011 ppm
Concentration RSD	17.1 %	0.7 %	3.5 %	6.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0050 ppm	0.0110 ppm	0.0047 ppm	0.0088 ppm
Concentration per Run 1	0.005 ppm	0.010 ppm	0.005 ppm	0.005 ppm
Concentration per Run 2	0.005 ppm	0.011 ppm	0.005 ppm	0.009 ppm
Concentration per Run 3	0.004 ppm	0.012 ppm	0.004 ppm	0.012 ppm
Concentration RSD	14.2 %	9.2 %	7.8 %	44.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0101 ppm	0.0518 ppm	0.2530 ppm	0.1051 ppm
Concentration per Run 1	0.010 ppm	0.052 ppm	0.241 ppm	0.108 ppm
Concentration per Run 2	0.011 ppm	0.053 ppm	0.261 ppm	0.106 ppm
Concentration per Run 3	0.010 ppm	0.050 ppm	0.258 ppm	0.101 ppm
Concentration RSD	4.8 %	2.5 %	4.3 %	3.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	N/A	0.0162 ppm	1.0465 ppm	N/A
Concentration per Run 1	N/A	0.017 ppm	1.046 ppm	N/A
Concentration per Run 2	N/A	0.017 ppm	1.053 ppm	N/A
Concentration per Run 3	N/A	0.015 ppm	1.041 ppm	N/A
Concentration RSD	N/A	6.9 %	0.6 %	N/A
Concentration SD	N/A	0.0 ppm	0.0 ppm	N/A

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	1.0692 ppm	1.0487 ppm	1.0468 ppm	N/A
Concentration per Run 1	1.087 ppm	1.020 ppm	1.049 ppm	N/A
Concentration per Run 2	1.099 ppm	1.066 ppm	1.041 ppm	N/A
Concentration per Run 3	1.022 ppm	1.060 ppm	1.050 ppm	N/A
Concentration RSD	3.9 %	2.4 %	0.5 %	N/A
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	N/A

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0085 ppm	0.0020 ppm	0.0099 ppm	0.0104 ppm
Concentration per Run 1	0.008 ppm	0.002 ppm	0.010 ppm	0.010 ppm
Concentration per Run 2	0.009 ppm	0.002 ppm	0.010 ppm	0.010 ppm
Concentration per Run 3	0.009 ppm	0.002 ppm	0.010 ppm	0.010 ppm
Concentration RSD	1.4 %	4.0 %	2.7 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0105 ppm	0.0251 ppm	0.0511 ppm	0.0053 ppm
Concentration per Run 1	0.011 ppm	0.021 ppm	0.049 ppm	0.005 ppm
Concentration per Run 2	0.011 ppm	0.027 ppm	0.053 ppm	0.005 ppm
Concentration per Run 3	0.010 ppm	0.027 ppm	0.051 ppm	0.005 ppm
Concentration RSD	0.8 %	12.6 %	4.0 %	2.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0503 ppm	0.0102 ppm	0.0475 ppm	0.0492 ppm
Concentration per Run 1	0.044 ppm	0.010 ppm	0.047 ppm	0.050 ppm
Concentration per Run 2	0.055 ppm	0.010 ppm	0.048 ppm	0.050 ppm
Concentration per Run 3	0.052 ppm	0.010 ppm	0.047 ppm	0.048 ppm
Concentration RSD	10.5 %	2.0 %	1.2 %	3.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.9240 ppm	99.7641 %	101.5701 %	101.5987 %
Concentration per Run 1	0.930 ppm	99.673 %	101.489 %	101.445 %
Concentration per Run 2	0.939 ppm	99.633 %	101.151 %	101.774 %
Concentration per Run 3	0.903 ppm	99.986 %	102.071 %	101.577 %
Concentration RSD	2.0 %			
Concentration SD	0.0 ppm			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.8912 %	N/A
Concentration per Run 1	100.876 %	N/A
Concentration per Run 2	100.716 %	N/A
Concentration per Run 3	101.082 %	N/A
Concentration RSD		N/A
Concentration SD		N/A

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1 cps	43 cps	19 cps	96 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	2 cps	4 cps	27 cps	19 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	18 cps	279 cps	29 cps	63 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	3 cps	186 cps	664 cps	337 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	57 cps	519 cps	1,492 cps	118 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	6 cps	31 cps	54 cps	4 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	465 cps	10 cps	90 cps	14 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	19 cps	255 cps	172 cps	69 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	277 cps	4,727 cps	8,221 cps	167,078 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,834 cps	10 cps

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STD2 15G21064

Sample Type STD Analysis Date 10/15/2015 9:41:17 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.4809 ppm	0.5013 ppm	0.4811 ppm	0.5024 ppm
Concentration per Run 1	0.484 ppm	0.507 ppm	0.487 ppm	0.502 ppm
Concentration per Run 2	0.484 ppm	0.506 ppm	0.487 ppm	0.502 ppm
Concentration per Run 3	0.474 ppm	0.491 ppm	0.470 ppm	0.503 ppm
Concentration RSD	1.3 %	1.8 %	2.0 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.4862 ppm	0.4882 ppm	0.4868 ppm	0.4972 ppm
Concentration per Run 1	0.490 ppm	0.489 ppm	0.487 ppm	0.495 ppm
Concentration per Run 2	0.492 ppm	0.496 ppm	0.487 ppm	0.497 ppm
Concentration per Run 3	0.477 ppm	0.479 ppm	0.487 ppm	0.499 ppm
Concentration RSD	1.7 %	1.8 %	0.1 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.4840 ppm	0.4916 ppm	N/A	0.5069 ppm
Concentration per Run 1	0.489 ppm	0.496 ppm	N/A	0.507 ppm
Concentration per Run 2	0.490 ppm	0.499 ppm	N/A	0.512 ppm
Concentration per Run 3	0.472 ppm	0.480 ppm	N/A	0.502 ppm
Concentration RSD	2.1 %	2.0 %	N/A	0.9 %
Concentration SD	0.0 ppm	0.0 ppm	N/A	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	N/A	0.5017 ppm	N/A	N/A
Concentration per Run 1	N/A	0.501 ppm	N/A	N/A
Concentration per Run 2	N/A	0.503 ppm	N/A	N/A
Concentration per Run 3	N/A	0.502 ppm	N/A	N/A
Concentration RSD	N/A	0.2 %	N/A	N/A
Concentration SD	N/A	0.0 ppm	N/A	N/A

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	N/A	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A	N/A

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.4794 ppm	0.4994 ppm	0.4865 ppm	0.4826 ppm
Concentration per Run 1	0.485 ppm	0.500 ppm	0.492 ppm	0.483 ppm
Concentration per Run 2	0.484 ppm	0.499 ppm	0.493 ppm	0.485 ppm
Concentration per Run 3	0.469 ppm	0.499 ppm	0.475 ppm	0.480 ppm
Concentration RSD	1.8 %	0.1 %	2.1 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.5003 ppm	0.5028 ppm	0.4961 ppm	0.5013 ppm
Concentration per Run 1	0.501 ppm	0.499 ppm	0.491 ppm	0.508 ppm
Concentration per Run 2	0.500 ppm	0.505 ppm	0.498 ppm	0.506 ppm
Concentration per Run 3	0.500 ppm	0.505 ppm	0.499 ppm	0.490 ppm
Concentration RSD	0.1 %	0.7 %	0.9 %	2.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	N/A	0.4980 ppm	N/A	0.4835 ppm
Concentration per Run 1	N/A	0.497 ppm	N/A	0.492 ppm
Concentration per Run 2	N/A	0.498 ppm	N/A	0.490 ppm
Concentration per Run 3	N/A	0.500 ppm	N/A	0.468 ppm
Concentration RSD	N/A	0.3 %	N/A	2.7 %
Concentration SD	N/A	0.0 ppm	N/A	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	N/A	99.7995 %	103.5385 %	102.7144 %
Concentration per Run 1	N/A	99.875 %	103.904 %	102.664 %
Concentration per Run 2	N/A	99.644 %	103.092 %	102.504 %
Concentration per Run 3	N/A	99.879 %	103.619 %	102.976 %
Concentration RSD	N/A			
Concentration SD	N/A			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.8866 %	N/A
Concentration per Run 1	101.955 %	N/A
Concentration per Run 2	101.796 %	N/A
Concentration per Run 3	101.909 %	N/A
Concentration RSD		N/A
Concentration SD		N/A

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	200 cps	3,743 cps	4,223 cps	4,529 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	390 cps	145 cps	4,554 cps	348 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1,013 cps	2,653 cps	49 cps	299 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	18 cps	5,056 cps	381 cps	178 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	29 cps	234 cps	710 cps	41 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	263 cps	8,477 cps	2,781 cps	315 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	21,565 cps	249 cps	874 cps	1,024 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	160 cps	13,971 cps	1,418 cps	664 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	138 cps	4,729 cps	8,381 cps	168,912 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,001 cps	0 cps

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STD3 15H06986

Sample Type STD Analysis Date 10/15/2015 9:44:11 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.9913 ppm	1.0201 ppm	1.0094 ppm	1.0019 ppm
Concentration per Run 1	0.992 ppm	1.019 ppm	1.010 ppm	1.002 ppm
Concentration per Run 2	0.995 ppm	1.022 ppm	1.010 ppm	1.007 ppm
Concentration per Run 3	0.987 ppm	1.019 ppm	1.007 ppm	0.997 ppm
Concentration RSD	0.4 %	0.1 %	0.2 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	1.0069 ppm	1.0059 ppm	1.0066 ppm	0.9984 ppm
Concentration per Run 1	1.006 ppm	1.008 ppm	1.009 ppm	0.999 ppm
Concentration per Run 2	1.009 ppm	1.005 ppm	1.005 ppm	0.994 ppm
Concentration per Run 3	1.005 ppm	1.005 ppm	1.006 ppm	1.003 ppm
Concentration RSD	0.2 %	0.1 %	0.2 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1.0034 ppm	1.0059 ppm	N/A	1.0181 ppm
Concentration per Run 1	1.004 ppm	1.007 ppm	N/A	1.019 ppm
Concentration per Run 2	1.003 ppm	1.008 ppm	N/A	1.020 ppm
Concentration per Run 3	1.003 ppm	1.002 ppm	N/A	1.016 ppm
Concentration RSD	0.1 %	0.3 %	N/A	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	N/A	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	N/A	0.9991 ppm	1.0091 ppm	N/A
Concentration per Run 1	N/A	1.001 ppm	1.013 ppm	N/A
Concentration per Run 2	N/A	0.999 ppm	1.020 ppm	N/A
Concentration per Run 3	N/A	0.997 ppm	0.995 ppm	N/A
Concentration RSD	N/A	0.2 %	1.3 %	N/A
Concentration SD	N/A	0.0 ppm	0.0 ppm	N/A

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	N/A	N/A	1.0322 ppm	N/A
Concentration per Run 1	N/A	N/A	1.041 ppm	N/A
Concentration per Run 2	N/A	N/A	1.032 ppm	N/A
Concentration per Run 3	N/A	N/A	1.023 ppm	N/A
Concentration RSD	N/A	N/A	0.9 %	N/A
Concentration SD	N/A	N/A	0.0 ppm	N/A

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.0103 ppm	1.0034 ppm	0.9967 ppm	1.0087 ppm
Concentration per Run 1	1.010 ppm	1.007 ppm	0.998 ppm	1.011 ppm
Concentration per Run 2	1.012 ppm	1.004 ppm	0.997 ppm	1.009 ppm
Concentration per Run 3	1.009 ppm	0.999 ppm	0.995 ppm	1.006 ppm
Concentration RSD	0.2 %	0.4 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.0100 ppm	1.0111 ppm	1.0059 ppm	1.0097 ppm
Concentration per Run 1	1.011 ppm	1.011 ppm	1.007 ppm	1.010 ppm
Concentration per Run 2	1.010 ppm	1.018 ppm	1.006 ppm	1.011 ppm
Concentration per Run 3	1.008 ppm	1.004 ppm	1.005 ppm	1.008 ppm
Concentration RSD	0.1 %	0.7 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.9999 ppm	1.0062 ppm	0.9773 ppm	0.9991 ppm
Concentration per Run 1	0.995 ppm	1.009 ppm	0.976 ppm	1.001 ppm
Concentration per Run 2	1.002 ppm	1.006 ppm	0.980 ppm	1.002 ppm
Concentration per Run 3	1.003 ppm	1.004 ppm	0.975 ppm	0.994 ppm
Concentration RSD	0.4 %	0.2 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.9726 ppm	99.4077 %	106.4520 %	102.9390 %
Concentration per Run 1	0.974 ppm	99.480 %	105.667 %	102.978 %
Concentration per Run 2	0.974 ppm	99.682 %	105.989 %	102.611 %
Concentration per Run 3	0.970 ppm	99.061 %	107.700 %	103.228 %
Concentration RSD	0.2 %			
Concentration SD	0.0 ppm			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	102.1000 %	N/A
Concentration per Run 1	102.233 %	N/A
Concentration per Run 2	102.265 %	N/A
Concentration per Run 3	101.803 %	N/A
Concentration RSD		N/A
Concentration SD		N/A

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	417 cps	7,628 cps	8,878 cps	9,046 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	807 cps	299 cps	9,455 cps	704 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	2,096 cps	5,437 cps	87 cps	615 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	37 cps	10,325 cps	675 cps	343 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	57 cps	581 cps	1,541 cps	109 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	553 cps	17,512 cps	5,678 cps	660 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	43,616 cps	518 cps	1,819 cps	2,064 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	331 cps	29,050 cps	2,519 cps	1,373 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	295 cps	4,710 cps	8,617 cps	169,282 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,036 cps	13 cps

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QTEGRA

STD4 15I21305

Sample Type STD Analysis Date 10/15/2015 9:47:01 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0091 ppm	2.0259 ppm	N/A	1.9984 ppm
Concentration per Run 1	2.014 ppm	2.026 ppm	N/A	2.002 ppm
Concentration per Run 2	2.005 ppm	2.026 ppm	N/A	1.992 ppm
Concentration per Run 3	2.009 ppm	2.026 ppm	N/A	2.002 ppm
Concentration RSD	0.2 %	0.0 %	N/A	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	N/A	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	N/A	N/A	N/A	2.0015 ppm
Concentration per Run 1	N/A	N/A	N/A	2.001 ppm
Concentration per Run 2	N/A	N/A	N/A	2.009 ppm
Concentration per Run 3	N/A	N/A	N/A	1.994 ppm
Concentration RSD	N/A	N/A	N/A	0.4 %
Concentration SD	N/A	N/A	N/A	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0023 ppm	1.9991 ppm	2.0638 ppm	1.9841 ppm
Concentration per Run 1	2.010 ppm	2.006 ppm	2.000 ppm	1.980 ppm
Concentration per Run 2	1.999 ppm	1.997 ppm	2.134 ppm	1.989 ppm
Concentration per Run 3	1.998 ppm	1.994 ppm	2.058 ppm	1.984 ppm
Concentration RSD	0.3 %	0.3 %	3.3 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	N/A	N/A	2.0115 ppm	N/A
Concentration per Run 1	N/A	N/A	2.014 ppm	N/A
Concentration per Run 2	N/A	N/A	2.014 ppm	N/A
Concentration per Run 3	N/A	N/A	2.006 ppm	N/A
Concentration RSD	N/A	N/A	0.2 %	N/A
Concentration SD	N/A	N/A	0.0 ppm	N/A

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	N/A	N/A	2.0369 ppm	N/A
Concentration per Run 1	N/A	N/A	2.044 ppm	N/A
Concentration per Run 2	N/A	N/A	2.039 ppm	N/A
Concentration per Run 3	N/A	N/A	2.028 ppm	N/A
Concentration RSD	N/A	N/A	0.4 %	N/A
Concentration SD	N/A	N/A	0.0 ppm	N/A

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	N/A	1.9984 ppm	2.0050 ppm	N/A
Concentration per Run 1	N/A	2.007 ppm	2.009 ppm	N/A
Concentration per Run 2	N/A	1.998 ppm	2.002 ppm	N/A
Concentration per Run 3	N/A	1.991 ppm	2.005 ppm	N/A
Concentration RSD	N/A	0.4 %	0.2 %	N/A
Concentration SD	N/A	0.0 ppm	0.0 ppm	N/A

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.9949 ppm	1.9937 ppm	1.9980 ppm	1.9948 ppm
Concentration per Run 1	1.996 ppm	1.996 ppm	1.992 ppm	1.993 ppm
Concentration per Run 2	1.992 ppm	2.005 ppm	2.004 ppm	2.001 ppm
Concentration per Run 3	1.998 ppm	1.980 ppm	1.998 ppm	1.990 ppm
Concentration RSD	0.2 %	0.6 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	2.0001 ppm	1.9974 ppm	2.3513 ppm	2.0046 ppm
Concentration per Run 1	2.004 ppm	2.001 ppm	2.329 ppm	2.007 ppm
Concentration per Run 2	2.013 ppm	1.998 ppm	2.349 ppm	2.003 ppm
Concentration per Run 3	1.983 ppm	1.994 ppm	2.376 ppm	2.003 ppm
Concentration RSD	0.8 %	0.2 %	1.0 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	1.9738 ppm	98.2771 %	107.1940 %	102.5126 %
Concentration per Run 1	1.977 ppm	98.510 %	107.287 %	102.537 %
Concentration per Run 2	1.975 ppm	98.300 %	107.035 %	102.591 %
Concentration per Run 3	1.969 ppm	98.021 %	107.260 %	102.409 %
Concentration RSD	0.2 %			
Concentration SD	0.0 ppm			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.6678 %	N/A
Concentration per Run 1	102.034 %	N/A
Concentration per Run 2	101.556 %	N/A
Concentration per Run 3	101.414 %	N/A
Concentration RSD		N/A
Concentration SD		N/A

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	847 cps	15,083 cps	17,783 cps	17,961 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1,614 cps	611 cps	19,212 cps	1,407 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	4,138 cps	10,758 cps	166 cps	1,205 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	71 cps	20,538 cps	1,254 cps	662 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	115 cps	1,211 cps	3,113 cps	204 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,116 cps	35,125 cps	11,293 cps	1,326 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	85,773 cps	1,031 cps	3,636 cps	4,058 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	663 cps	58,097 cps	5,960 cps	2,741 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	598 cps	4,657 cps	8,677 cps	168,580 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,964 cps	12 cps

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STD5 15I21304

Sample Type STD Analysis Date 10/15/2015 9:49:48 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	N/A	9.9927 ppm	N/A	N/A
Concentration per Run 1	N/A	9.994 ppm	N/A	N/A
Concentration per Run 2	N/A	9.991 ppm	N/A	N/A
Concentration per Run 3	N/A	9.993 ppm	N/A	N/A
Concentration RSD	N/A	0.0 %	N/A	N/A
Concentration SD	N/A	0.0 ppm	N/A	N/A

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	N/A	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A	N/A

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	N/A	N/A	10.1694 ppm	10.0010 ppm
Concentration per Run 1	N/A	N/A	10.183 ppm	10.040 ppm
Concentration per Run 2	N/A	N/A	10.191 ppm	9.980 ppm
Concentration per Run 3	N/A	N/A	10.134 ppm	9.982 ppm
Concentration RSD	N/A	N/A	0.3 %	0.3 %
Concentration SD	N/A	N/A	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.5943 ppm	N/A	9.9922 ppm	10.8176 ppm
Concentration per Run 1	10.558 ppm	N/A	10.069 ppm	10.915 ppm
Concentration per Run 2	10.613 ppm	N/A	9.970 ppm	10.807 ppm
Concentration per Run 3	10.612 ppm	N/A	9.937 ppm	10.731 ppm
Concentration RSD	0.3 %	N/A	0.7 %	0.9 %
Concentration SD	0.0 ppm	N/A	0.1 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.2925 ppm	10.2231 ppm	9.9847 ppm	10.5441 ppm
Concentration per Run 1	10.400 ppm	10.248 ppm	10.081 ppm	10.630 ppm
Concentration per Run 2	10.209 ppm	10.230 ppm	9.921 ppm	10.447 ppm
Concentration per Run 3	10.269 ppm	10.191 ppm	9.952 ppm	10.555 ppm
Concentration RSD	0.9 %	0.3 %	0.9 %	0.9 %
Concentration SD	0.1 ppm	0.0 ppm	0.1 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	N/A	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A	N/A

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	N/A	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A	N/A

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	N/A	N/A	9.9320 ppm	N/A
Concentration per Run 1	N/A	N/A	9.944 ppm	N/A
Concentration per Run 2	N/A	N/A	9.913 ppm	N/A
Concentration per Run 3	N/A	N/A	9.940 ppm	N/A
Concentration RSD	N/A	N/A	0.2 %	N/A
Concentration SD	N/A	N/A	0.0 ppm	N/A

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	10.1654 ppm	96.2501 %	107.1578 %	101.5183 %
Concentration per Run 1	10.178 ppm	96.424 %	106.808 %	101.569 %
Concentration per Run 2	10.205 ppm	96.250 %	107.606 %	101.564 %
Concentration per Run 3	10.114 ppm	96.077 %	107.060 %	101.421 %
Concentration RSD	0.5 %			
Concentration SD	0.0 ppm			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.6895 %	N/A
Concentration per Run 1	100.963 %	N/A
Concentration per Run 2	100.726 %	N/A
Concentration per Run 3	100.379 %	N/A
Concentration RSD		N/A
Concentration SD		N/A

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	73,669 cps	-17 cps	-1 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1 cps	1 cps	-13 cps	13 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	8 cps	771 cps	6,061 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	312 cps	45 cps	5,821 cps	3,200 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	575 cps	5,985 cps	15,457 cps	1,082 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	3 cps	2 cps	-1 cps	-1 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	54 cps	0 cps	5 cps	6 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	4 cps	-10 cps	24,760 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	3,058 cps	4,561 cps	8,674 cps	166,945 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,801 cps	2 cps

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STD6 15I21386

Sample Type STD Analysis Date 10/15/2015 9:52:54 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	N/A	246.7022 ppm	N/A
Concentration per Run 1	N/A	248.057 ppm	N/A
Concentration per Run 2	N/A	246.079 ppm	N/A
Concentration per Run 3	N/A	245.971 ppm	N/A
Concentration RSD	N/A	0.5 %	N/A
Concentration SD	N/A	1.2 ppm	N/A

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	100.8147 ppm	N/A	N/A
Concentration per Run 1	101.660 ppm	N/A	N/A
Concentration per Run 2	100.193 ppm	N/A	N/A
Concentration per Run 3	100.590 ppm	N/A	N/A
Concentration RSD	0.8 %	N/A	N/A
Concentration SD	0.8 ppm	N/A	N/A

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	251.1286 ppm	246.9231 ppm	50.0689 ppm
Concentration per Run 1	252.678 ppm	248.534 ppm	50.391 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	250.167 ppm	245.646 ppm	49.842 ppm
Concentration per Run 3	250.541 ppm	246.589 ppm	49.974 ppm
Concentration RSD	0.5 %	0.6 %	0.6 %
Concentration SD	1.4 ppm	1.5 ppm	0.3 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	N/A	247.2140 ppm	N/A
Concentration per Run 1	N/A	247.995 ppm	N/A
Concentration per Run 2	N/A	246.761 ppm	N/A
Concentration per Run 3	N/A	246.886 ppm	N/A
Concentration RSD	N/A	0.3 %	N/A
Concentration SD	N/A	0.7 ppm	N/A

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	N/A	N/A	49.3468 ppm
Concentration per Run 1	N/A	N/A	50.124 ppm
Concentration per Run 2	N/A	N/A	49.868 ppm
Concentration per Run 3	N/A	N/A	48.048 ppm
Concentration RSD	N/A	N/A	2.3 %
Concentration SD	N/A	N/A	1.1 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	75.4250 %	101.5734 %	88.5949 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	75.221 %	100.885 %	88.612 %
Concentration per Run 2	75.532 %	101.854 %	88.551 %
Concentration per Run 3	75.521 %	101.981 %	88.621 %
Concentration RSD			
Concentration SD			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	89.1114 %	10.0000 ppm
Concentration per Run 1	89.002 %	9.965 ppm
Concentration per Run 2	89.316 %	9.983 ppm
Concentration per Run 3	89.016 %	10.052 ppm
Concentration RSD		0.5 %
Concentration SD		0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-8 cps	18 cps	8 cps	2 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-6 cps	0 cps	0 cps	15 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	11 cps	54 cps	17,453 cps	53,122 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2,813 cps	100 cps	124,035 cps	69,874 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	13,076 cps	28,055 cps	335,644 cps	24,385 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	0 cps	5 cps	-3 cps	-10 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	354 cps	2 cps	52 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	251 cps	48 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	13,145 cps	3,574 cps	8,222 cps	145,693 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	14,869 cps	3,108 cps

Comprehensive sample report

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QTEGRA

STD7 15I21306

Sample Type STD Analysis Date 10/15/2015 9:56:06 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	N/A	501.6453 ppm	N/A
Concentration per Run 1	N/A	500.974 ppm	N/A
Concentration per Run 2	N/A	502.016 ppm	N/A
Concentration per Run 3	N/A	501.946 ppm	N/A
Concentration RSD	N/A	0.1 %	N/A
Concentration SD	N/A	0.6 ppm	N/A

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	199.5629 ppm	N/A	N/A
Concentration per Run 1	199.249 ppm	N/A	N/A
Concentration per Run 2	200.111 ppm	N/A	N/A
Concentration per Run 3	199.329 ppm	N/A	N/A
Concentration RSD	0.2 %	N/A	N/A
Concentration SD	0.5 ppm	N/A	N/A

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	499.4194 ppm	501.5324 ppm	99.9428 ppm
Concentration per Run 1	499.306 ppm	501.757 ppm	99.959 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	500.447 ppm	503.196 ppm	99.948 ppm
Concentration per Run 3	498.504 ppm	499.644 ppm	99.920 ppm
Concentration RSD	0.2 %	0.4 %	0.0 %
Concentration SD	1.0 ppm	1.8 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	N/A	501.3821 ppm	N/A
Concentration per Run 1	N/A	500.471 ppm	N/A
Concentration per Run 2	N/A	501.248 ppm	N/A
Concentration per Run 3	N/A	502.428 ppm	N/A
Concentration RSD	N/A	0.2 %	N/A
Concentration SD	N/A	1.0 ppm	N/A

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	N/A	N/A	100.3116 ppm
Concentration per Run 1	N/A	N/A	103.536 ppm
Concentration per Run 2	N/A	N/A	102.310 ppm
Concentration per Run 3	N/A	N/A	95.089 ppm
Concentration RSD	N/A	N/A	4.5 %
Concentration SD	N/A	N/A	4.6 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	68.4055 %	99.6772 %	83.8115 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	67.897 %	99.556 %	83.718 %
Concentration per Run 2	68.241 %	99.683 %	83.868 %
Concentration per Run 3	69.079 %	99.793 %	83.849 %
Concentration RSD			
Concentration SD			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	84.5485 %	N/A
Concentration per Run 1	84.276 %	N/A
Concentration per Run 2	84.585 %	N/A
Concentration per Run 3	84.784 %	N/A
Concentration RSD		N/A
Concentration SD		N/A

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-6 cps	23 cps	7 cps	9 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-10 cps	4 cps	-25 cps	21 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	15 cps	45 cps	34,815 cps	102,791 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	5,463 cps	187 cps	239,238 cps	136,343 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	26,064 cps	55,025 cps	584,000 cps	48,549 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	6 cps	-2 cps	-5 cps	-5 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	645 cps	2 cps	60 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	-1 cps	463 cps	29 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	25,352 cps	3,241 cps	8,068 cps	137,827 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	14,108 cps	48 cps

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QTEGRA

ICV 15G22196

Sample Type QC Analysis Date 10/15/2015 9:59:29 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.9859 ppm	1.0053 ppm	0.9839 ppm	0.9977 ppm
Concentration per Run 1	0.991 ppm	1.007 ppm	0.986 ppm	0.996 ppm
Concentration per Run 2	0.987 ppm	1.007 ppm	0.985 ppm	0.999 ppm
Concentration per Run 3	0.980 ppm	1.002 ppm	0.980 ppm	0.998 ppm
Concentration RSD	0.6 %	0.3 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.9917 ppm	1.0018 ppm	0.9918 ppm	0.9847 ppm
Concentration per Run 1	0.995 ppm	0.998 ppm	0.990 ppm	0.984 ppm
Concentration per Run 2	0.991 ppm	1.001 ppm	0.996 ppm	0.983 ppm
Concentration per Run 3	0.989 ppm	1.006 ppm	0.989 ppm	0.987 ppm
Concentration RSD	0.3 %	0.4 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1.0031 ppm	0.9994 ppm	10.1095 ppm	10.1366 ppm
Concentration per Run 1	1.002 ppm	1.000 ppm	10.091 ppm	10.171 ppm
Concentration per Run 2	1.006 ppm	0.999 ppm	10.104 ppm	10.101 ppm
Concentration per Run 3	1.001 ppm	0.999 ppm	10.133 ppm	10.138 ppm
Concentration RSD	0.3 %	0.0 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.9388 ppm	0.9666 ppm	10.0618 ppm	10.8872 ppm
Concentration per Run 1	10.795 ppm	0.967 ppm	10.109 ppm	10.923 ppm
Concentration per Run 2	10.980 ppm	0.967 ppm	10.012 ppm	10.836 ppm
Concentration per Run 3	11.041 ppm	0.966 ppm	10.065 ppm	10.903 ppm
Concentration RSD	1.2 %	0.0 %	0.5 %	0.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.2820 ppm	10.0908 ppm	9.9215 ppm	10.0730 ppm
Concentration per Run 1	10.387 ppm	10.089 ppm	9.929 ppm	10.055 ppm
Concentration per Run 2	10.196 ppm	10.102 ppm	9.931 ppm	10.038 ppm
Concentration per Run 3	10.263 ppm	10.082 ppm	9.905 ppm	10.126 ppm
Concentration RSD	0.9 %	0.1 %	0.1 %	0.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.0028 ppm	0.9982 ppm	0.9923 ppm	0.9803 ppm
Concentration per Run 1	1.002 ppm	1.001 ppm	0.994 ppm	0.978 ppm
Concentration per Run 2	1.010 ppm	0.998 ppm	0.993 ppm	0.984 ppm
Concentration per Run 3	0.997 ppm	0.996 ppm	0.989 ppm	0.979 ppm
Concentration RSD	0.7 %	0.2 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9973 ppm	1.0070 ppm	1.0136 ppm	1.0278 ppm
Concentration per Run 1	0.999 ppm	1.008 ppm	1.017 ppm	1.028 ppm
Concentration per Run 2	0.998 ppm	1.010 ppm	1.008 ppm	1.030 ppm
Concentration per Run 3	0.996 ppm	1.003 ppm	1.015 ppm	1.026 ppm
Concentration RSD	0.1 %	0.3 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.0019 ppm	0.3964 ppm	0.9844 ppm	0.9861 ppm
Concentration per Run 1	1.008 ppm	0.396 ppm	0.986 ppm	0.987 ppm
Concentration per Run 2	1.017 ppm	0.398 ppm	0.985 ppm	0.988 ppm
Concentration per Run 3	0.980 ppm	0.395 ppm	0.982 ppm	0.983 ppm
Concentration RSD	2.0 %	0.3 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	9.5035 ppm	94.4468 %	104.0107 %	99.6904 %
Concentration per Run 1	9.502 ppm	94.284 %	103.389 %	99.591 %
Concentration per Run 2	9.516 ppm	94.543 %	104.604 %	99.418 %
Concentration per Run 3	9.492 ppm	94.513 %	104.039 %	100.062 %
Concentration RSD	0.1 %	0.1 %	0.6 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	0.6 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	99.6401 %	0.0602 ppm
Concentration per Run 1	99.515 %	0.053 ppm
Concentration per Run 2	99.695 %	0.096 ppm
Concentration per Run 3	99.710 %	0.031 ppm
Concentration RSD	0.1 %	55.3 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	405 cps	7,337 cps	8,445 cps	8,724 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	755 cps	291 cps	9,022 cps	679 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1,991 cps	5,272 cps	744 cps	5,962 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	313 cps	9,760 cps	5,688 cps	3,126 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	558 cps	5,733 cps	14,908 cps	1,003 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	535 cps	17,023 cps	5,370 cps	609 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	41,708 cps	504 cps	1,791 cps	2,050 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	324 cps	11,166 cps	2,457 cps	1,323 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2,829 cps	4,475 cps	8,419 cps	163,939 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,626 cps	13 cps

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ICB

Sample Type QC Analysis Date 10/15/2015 10:02:15 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0010 ppm	0.0002 ppm	0.0002 ppm	-0.0005 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	130.7 %	41.0 %	46.0 %	58.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0001 ppm	0.0015 ppm	0.0005 ppm	0.0022 ppm
Concentration per Run 1	0.000 ppm	-0.001 ppm	0.001 ppm	-0.003 ppm
Concentration per Run 2	-0.001 ppm	0.004 ppm	0.001 ppm	0.002 ppm
Concentration per Run 3	0.001 ppm	0.001 ppm	0.000 ppm	0.007 ppm
Concentration RSD	527.2 %	165.0 %	72.9 %	235.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0013 ppm	0.0001 ppm	0.0162 ppm	0.0083 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.014 ppm	0.009 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.013 ppm	0.009 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.021 ppm	0.007 ppm
Concentration RSD	3.7 %	25.9 %	24.8 %	17.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0840 ppm	0.0001 ppm	0.0248 ppm	0.0121 ppm
Concentration per Run 1	0.108 ppm	0.000 ppm	0.032 ppm	-0.007 ppm
Concentration per Run 2	0.063 ppm	-0.001 ppm	0.024 ppm	0.016 ppm
Concentration per Run 3	0.080 ppm	0.001 ppm	0.019 ppm	0.027 ppm
Concentration RSD	27.2 %	421.1 %	26.5 %	144.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0547 ppm	0.0797 ppm	0.0584 ppm	-0.3129 ppm
Concentration per Run 1	0.064 ppm	0.069 ppm	0.066 ppm	-0.473 ppm
Concentration per Run 2	0.024 ppm	0.089 ppm	0.057 ppm	-0.322 ppm
Concentration per Run 3	0.076 ppm	0.082 ppm	0.053 ppm	-0.143 ppm
Concentration RSD	49.7 %	12.7 %	11.4 %	52.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0022 ppm	0.0001 ppm	0.0001 ppm	0.0005 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.004 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	56.0 %	24.5 %	52.6 %	57.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0001 ppm	0.0023 ppm	0.0003 ppm	0.0012 ppm
Concentration per Run 1	0.000 ppm	0.006 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.001 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	0.001 ppm	0.002 ppm
Concentration RSD	123.4 %	137.6 %	200.0 %	45.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0017 ppm	0.0000 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 1	-0.005 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	152.4 %	416.8 %	540.3 %	90.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0154 ppm	101.0035 %	103.2523 %	102.2292 %
Concentration per Run 1	0.014 ppm	100.920 %	103.058 %	102.227 %
Concentration per Run 2	0.017 ppm	100.979 %	102.877 %	102.153 %
Concentration per Run 3	0.016 ppm	101.111 %	103.822 %	102.307 %
Concentration RSD	10.0 %	0.1 %	0.5 %	0.1 %
Concentration SD	0.0 ppm	0.1 %	0.5 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.7995 %	0.0435 ppm
Concentration per Run 1	100.555 %	0.019 ppm
Concentration per Run 2	100.803 %	0.067 ppm
Concentration per Run 3	101.040 %	0.044 ppm
Concentration RSD	0.2 %	55.1 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	5 cps	4 cps	2 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-13 cps	15 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	0 cps	3 cps	13 cps	7 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	3 cps	29 cps	112 cps	29 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	3 cps	-26 cps	37 cps	-47 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	3 cps	0 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	19 cps	-1 cps	3 cps	5 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-27 cps	53 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	3 cps	4,786 cps	8,358 cps	168,114 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,819 cps	8 cps

Comprehensive sample report

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ICVLL 15I21316

Sample Type QC Analysis Date 10/15/2015 10:05:24 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0105 ppm	0.0052 ppm	0.0019 ppm	0.0099 ppm
Concentration per Run 1	0.010 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration per Run 2	0.011 ppm	0.005 ppm	0.002 ppm	0.009 ppm
Concentration per Run 3	0.011 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration RSD	5.0 %	4.2 %	4.1 %	4.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0060 ppm	0.0095 ppm	0.0047 ppm	0.0095 ppm
Concentration per Run 1	0.006 ppm	0.012 ppm	0.005 ppm	0.008 ppm
Concentration per Run 2	0.006 ppm	0.009 ppm	0.005 ppm	0.013 ppm
Concentration per Run 3	0.006 ppm	0.008 ppm	0.005 ppm	0.007 ppm
Concentration RSD	4.8 %	20.5 %	5.8 %	29.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0102 ppm	0.0513 ppm	0.2057 ppm	0.1052 ppm
Concentration per Run 1	0.011 ppm	0.052 ppm	0.231 ppm	0.104 ppm
Concentration per Run 2	0.010 ppm	0.052 ppm	0.168 ppm	0.106 ppm
Concentration per Run 3	0.010 ppm	0.050 ppm	0.218 ppm	0.105 ppm
Concentration RSD	2.6 %	2.8 %	16.2 %	0.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.1827 ppm	0.0147 ppm	1.0426 ppm	1.1052 ppm
Concentration per Run 1	0.275 ppm	0.015 ppm	1.043 ppm	1.099 ppm
Concentration per Run 2	0.144 ppm	0.014 ppm	1.042 ppm	1.121 ppm
Concentration per Run 3	0.128 ppm	0.015 ppm	1.043 ppm	1.095 ppm
Concentration RSD	44.1 %	6.8 %	0.1 %	1.3 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	1.1383 ppm	1.1071 ppm	1.0645 ppm	0.6370 ppm
Concentration per Run 1	1.170 ppm	1.117 ppm	1.051 ppm	0.671 ppm
Concentration per Run 2	1.115 ppm	1.099 ppm	1.076 ppm	0.645 ppm
Concentration per Run 3	1.130 ppm	1.106 ppm	1.066 ppm	0.595 ppm
Concentration RSD	2.5 %	0.8 %	1.2 %	6.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0090 ppm	0.0020 ppm	0.0098 ppm	0.0095 ppm
Concentration per Run 1	0.010 ppm	0.002 ppm	0.010 ppm	0.008 ppm
Concentration per Run 2	0.008 ppm	0.002 ppm	0.010 ppm	0.010 ppm
Concentration per Run 3	0.010 ppm	0.002 ppm	0.009 ppm	0.010 ppm
Concentration RSD	12.7 %	2.9 %	5.4 %	11.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0105 ppm	0.0224 ppm	0.0507 ppm	0.0050 ppm
Concentration per Run 1	0.011 ppm	0.020 ppm	0.051 ppm	0.005 ppm
Concentration per Run 2	0.011 ppm	0.023 ppm	0.051 ppm	0.005 ppm
Concentration per Run 3	0.011 ppm	0.024 ppm	0.050 ppm	0.005 ppm
Concentration RSD	0.1 %	10.8 %	1.5 %	6.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0460 ppm	0.0101 ppm	0.0479 ppm	0.0489 ppm
Concentration per Run 1	0.041 ppm	0.010 ppm	0.047 ppm	0.049 ppm
Concentration per Run 2	0.050 ppm	0.010 ppm	0.049 ppm	0.050 ppm
Concentration per Run 3	0.047 ppm	0.010 ppm	0.048 ppm	0.048 ppm
Concentration RSD	9.8 %	1.4 %	1.9 %	2.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.9294 ppm	100.5817 %	103.6369 %	102.1180 %
Concentration per Run 1	0.934 ppm	100.650 %	102.641 %	101.985 %
Concentration per Run 2	0.942 ppm	100.623 %	104.415 %	102.253 %
Concentration per Run 3	0.912 ppm	100.472 %	103.855 %	102.117 %
Concentration RSD	1.7 %	0.1 %	0.9 %	0.1 %
Concentration SD	0.0 ppm	0.1 %	0.9 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.4555 %	0.0204 ppm
Concentration per Run 1	101.512 %	0.055 ppm
Concentration per Run 2	101.353 %	0.005 ppm
Concentration per Run 3	101.501 %	0.001 ppm
Concentration RSD	0.1 %	146.5 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	42 cps	19 cps	95 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	3 cps	3 cps	27 cps	20 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	18 cps	278 cps	26 cps	64 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	6 cps	175 cps	676 cps	339 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	62 cps	563 cps	1,549 cps	49 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	6 cps	32 cps	54 cps	3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	467 cps	9 cps	91 cps	13 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	18 cps	257 cps	174 cps	69 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	280 cps	4,766 cps	8,389 cps	167,932 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,929 cps	1 cps

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QTEGRA

ICSA 15I21332

Sample Type QC Analysis Date 10/15/2015 10:15:28 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	-0.0126 ppm	0.0028 ppm	0.0009 ppm
Concentration per Run 1	-0.013 ppm	0.003 ppm	0.001 ppm
Concentration per Run 2	-0.017 ppm	0.003 ppm	0.001 ppm
Concentration per Run 3	-0.008 ppm	0.003 ppm	0.001 ppm
Concentration RSD	34.3 %	11.3 %	28.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0010 ppm	-0.0182 ppm	0.0194 ppm
Concentration per Run 1	0.002 ppm	-0.018 ppm	0.020 ppm
Concentration per Run 2	0.001 ppm	-0.019 ppm	0.023 ppm
Concentration per Run 3	0.000 ppm	-0.018 ppm	0.016 ppm
Concentration RSD	82.6 %	3.8 %	18.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	-0.0004 ppm	0.0050 ppm	0.0115 ppm
Concentration per Run 1	-0.001 ppm	0.005 ppm	0.012 ppm
Concentration per Run 2	-0.001 ppm	0.001 ppm	0.012 ppm
Concentration per Run 3	0.000 ppm	0.009 ppm	0.011 ppm
Concentration RSD	91.4 %	75.7 %	2.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0059 ppm	499.0604 ppm	180.4717 ppm
Concentration per Run 1	0.006 ppm	497.341 ppm	179.939 ppm
Concentration per Run 2	0.006 ppm	500.119 ppm	180.616 ppm
Concentration per Run 3	0.006 ppm	499.721 ppm	180.860 ppm
Concentration RSD	4.7 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	1.5 ppm	0.5 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	196.3080 ppm	0.0156 ppm	448.2001 ppm
Concentration per Run 1	196.353 ppm	0.014 ppm	446.963 ppm
Concentration per Run 2	196.318 ppm	0.016 ppm	448.620 ppm
Concentration per Run 3	196.253 ppm	0.016 ppm	449.017 ppm
Concentration RSD	0.0 %	6.7 %	0.2 %
Concentration SD	0.1 ppm	0.0 ppm	1.1 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	504.4032 ppm	500.8233 ppm	0.0507 ppm
Concentration per Run 1	503.027 ppm	498.523 ppm	0.050 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	504.884 ppm	500.950 ppm	0.025 ppm
Concentration per Run 3	505.299 ppm	502.997 ppm	0.077 ppm
Concentration RSD	0.2 %	0.4 %	50.9 %
Concentration SD	1.2 ppm	2.2 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	0.1897 ppm	0.4366 ppm	0.0089 ppm
Concentration per Run 1	0.186 ppm	0.489 ppm	0.004 ppm
Concentration per Run 2	0.186 ppm	0.172 ppm	0.012 ppm
Concentration per Run 3	0.197 ppm	0.650 ppm	0.011 ppm
Concentration RSD	3.4 %	55.7 %	51.0 %
Concentration SD	0.0 ppm	0.2 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0000 ppm	-0.0008 ppm	-0.0069 ppm
Concentration per Run 1	0.000 ppm	-0.001 ppm	-0.005 ppm
Concentration per Run 2	0.000 ppm	-0.001 ppm	-0.009 ppm
Concentration per Run 3	0.000 ppm	-0.001 ppm	-0.007 ppm
Concentration RSD	313.5 %	33.5 %	29.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.0039 ppm	0.0091 ppm	0.0242 ppm
Concentration per Run 1	0.004 ppm	0.007 ppm	0.025 ppm
Concentration per Run 2	0.004 ppm	0.011 ppm	0.024 ppm
Concentration per Run 3	0.004 ppm	0.010 ppm	0.023 ppm
Concentration RSD	1.0 %	23.9 %	5.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0014 ppm	-0.0005 ppm	0.0062 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.006 ppm
Concentration per Run 2	0.002 ppm	0.005 ppm	0.006 ppm
Concentration per Run 3	0.002 ppm	-0.006 ppm	0.006 ppm
Concentration RSD	90.6 %	1,066.9 %	1.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	-0.0074 ppm	0.0005 ppm	0.0066 ppm
Concentration per Run 1	-0.007 ppm	0.001 ppm	0.007 ppm
Concentration per Run 2	-0.010 ppm	0.001 ppm	0.009 ppm
Concentration per Run 3	-0.006 ppm	-0.001 ppm	0.004 ppm
Concentration RSD	28.4 %	236.6 %	32.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	72.5808 %	98.8629 %	85.6887 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	72.068 %	99.503 %	85.757 %
Concentration per Run 2	72.265 %	98.571 %	85.605 %
Concentration per Run 3	73.410 %	98.515 %	85.705 %
Concentration RSD	1.0 %	0.6 %	0.1 %
Concentration SD	0.7 %	0.6 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	86.3433 %	0.1298 ppm
Concentration per Run 1	85.841 %	0.108 ppm
Concentration per Run 2	86.060 %	0.147 ppm
Concentration per Run 3	87.130 %	0.134 ppm
Concentration RSD	0.8 %	15.2 %
Concentration SD	0.7 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-8 cps	21 cps	8 cps	13 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-12 cps	5 cps	-18 cps	16 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	15 cps	29 cps	34,352 cps	100,862 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	5,330 cps	175 cps	236,756 cps	136,578 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	25,814 cps	-40 cps	224 cps	27 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	5 cps	-1 cps	-5 cps	-5 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	156 cps	2 cps	42 cps	5 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	141 cps	29 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	0 cps	3,439 cps	8,002 cps	140,914 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	14,407 cps	35 cps

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QTEGRA

ICSAB 15I21333

Sample Type QC Analysis Date 10/15/2015 10:18:43 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.5048 ppm	0.4935 ppm	1.0406 ppm
Concentration per Run 1	0.507 ppm	0.494 ppm	1.043 ppm
Concentration per Run 2	0.500 ppm	0.495 ppm	1.043 ppm
Concentration per Run 3	0.507 ppm	0.492 ppm	1.037 ppm
Concentration RSD	0.9 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4791 ppm	0.9831 ppm	0.5467 ppm
Concentration per Run 1	0.480 ppm	0.985 ppm	0.547 ppm
Concentration per Run 2	0.480 ppm	0.983 ppm	0.556 ppm
Concentration per Run 3	0.477 ppm	0.981 ppm	0.538 ppm
Concentration RSD	0.3 %	0.2 %	1.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	1.1086 ppm	0.4993 ppm	1.0437 ppm
Concentration per Run 1	1.111 ppm	0.504 ppm	1.050 ppm
Concentration per Run 2	1.107 ppm	0.494 ppm	1.044 ppm
Concentration per Run 3	1.108 ppm	0.500 ppm	1.037 ppm
Concentration RSD	0.2 %	1.0 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.9414 ppm	502.0631 ppm	180.8475 ppm
Concentration per Run 1	0.945 ppm	502.524 ppm	181.210 ppm
Concentration per Run 2	0.942 ppm	501.367 ppm	180.604 ppm
Concentration per Run 3	0.937 ppm	502.299 ppm	180.729 ppm
Concentration RSD	0.4 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.6 ppm	0.3 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	197.7015 ppm	0.0143 ppm	446.4984 ppm
Concentration per Run 1	197.703 ppm	0.013 ppm	447.676 ppm
Concentration per Run 2	197.832 ppm	0.014 ppm	447.505 ppm
Concentration per Run 3	197.569 ppm	0.016 ppm	444.314 ppm
Concentration RSD	0.1 %	8.7 %	0.4 %
Concentration SD	0.1 ppm	0.0 ppm	1.9 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	503.1507 ppm	499.7074 ppm	0.1057 ppm
Concentration per Run 1	504.320 ppm	501.404 ppm	0.091 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	502.306 ppm	498.546 ppm	0.122 ppm
Concentration per Run 3	502.826 ppm	499.172 ppm	0.103 ppm
Concentration RSD	0.2 %	0.3 %	14.9 %
Concentration SD	1.0 ppm	1.5 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	0.1923 ppm	0.2740 ppm	0.5241 ppm
Concentration per Run 1	0.180 ppm	0.078 ppm	0.528 ppm
Concentration per Run 2	0.199 ppm	0.518 ppm	0.523 ppm
Concentration per Run 3	0.198 ppm	0.227 ppm	0.521 ppm
Concentration RSD	5.4 %	81.7 %	0.7 %
Concentration SD	0.0 ppm	0.2 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.4960 ppm	0.5208 ppm	0.4618 ppm
Concentration per Run 1	0.499 ppm	0.524 ppm	0.464 ppm
Concentration per Run 2	0.495 ppm	0.521 ppm	0.462 ppm
Concentration per Run 3	0.494 ppm	0.517 ppm	0.460 ppm
Concentration RSD	0.5 %	0.7 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.4830 ppm	0.4954 ppm	0.5142 ppm
Concentration per Run 1	0.483 ppm	0.500 ppm	0.514 ppm
Concentration per Run 2	0.482 ppm	0.495 ppm	0.516 ppm
Concentration per Run 3	0.484 ppm	0.491 ppm	0.513 ppm
Concentration RSD	0.2 %	0.8 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.5007 ppm	0.9966 ppm	0.0064 ppm
Concentration per Run 1	0.502 ppm	0.996 ppm	0.007 ppm
Concentration per Run 2	0.503 ppm	0.991 ppm	0.006 ppm
Concentration per Run 3	0.497 ppm	1.003 ppm	0.006 ppm
Concentration RSD	0.6 %	0.6 %	3.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	0.9640 ppm	0.4404 ppm	0.0080 ppm
Concentration per Run 1	0.958 ppm	0.442 ppm	0.002 ppm
Concentration per Run 2	0.966 ppm	0.441 ppm	0.011 ppm
Concentration per Run 3	0.968 ppm	0.438 ppm	0.010 ppm
Concentration RSD	0.5 %	0.5 %	62.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	72.5871 %	99.6996 %	86.1381 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	72.457 %	99.150 %	86.114 %
Concentration per Run 2	72.744 %	99.948 %	86.204 %
Concentration per Run 3	72.561 %	100.000 %	86.096 %
Concentration RSD	0.2 %	0.5 %	0.1 %
Concentration SD	0.1 %	0.5 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	86.3859 %	0.1584 ppm
Concentration per Run 1	86.507 %	0.180 ppm
Concentration per Run 2	86.386 %	0.137 ppm
Concentration per Run 3	86.264 %	0.159 ppm
Concentration RSD	0.1 %	13.6 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	178 cps	3,124 cps	7,744 cps	3,622 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	575 cps	138 cps	8,715 cps	336 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1,592 cps	4,305 cps	34,852 cps	101,928 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	5,414 cps	164 cps	237,854 cps	137,392 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	25,975 cps	-10 cps	230 cps	12 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	243 cps	8,106 cps	2,165 cps	219 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	17,462 cps	237 cps	872 cps	867 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	309 cps	147 cps	2,080 cps	513 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1 cps	3,440 cps	8,070 cps	141,653 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	14,414 cps	44 cps

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QTEGRA

ICSA2

Sample Type QC Analysis Date 10/15/2015 10:21:40 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0010 ppm	0.0002 ppm	0.0002 ppm	-0.0008 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	73.3 %	59.2 %	56.1 %	10.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0017 ppm	0.0003 ppm	0.0008 ppm	-0.0043 ppm
Concentration per Run 1	0.002 ppm	-0.001 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.001 ppm	-0.002 ppm
Concentration per Run 3	0.002 ppm	0.002 ppm	0.001 ppm	-0.009 ppm
Concentration RSD	11.1 %	494.7 %	62.0 %	88.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0000 ppm	-0.0002 ppm	-0.0013 ppm	0.0095 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.004 ppm	0.014 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.002 ppm	0.010 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.006 ppm	0.005 ppm
Concentration RSD	523.3 %	84.0 %	425.4 %	46.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0158 ppm	-0.0008 ppm	0.0340 ppm	0.0196 ppm
Concentration per Run 1	-0.084 ppm	-0.001 ppm	0.035 ppm	0.029 ppm
Concentration per Run 2	0.090 ppm	-0.001 ppm	0.036 ppm	0.017 ppm
Concentration per Run 3	0.041 ppm	-0.001 ppm	0.032 ppm	0.013 ppm
Concentration RSD	569.1 %	24.2 %	6.6 %	41.6 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0325 ppm	0.0964 ppm	16.1905 ppm	16.6853 ppm
Concentration per Run 1	0.030 ppm	0.109 ppm	16.180 ppm	16.645 ppm
Concentration per Run 2	0.020 ppm	0.089 ppm	16.174 ppm	16.758 ppm
Concentration per Run 3	0.047 ppm	0.091 ppm	16.218 ppm	16.653 ppm
Concentration RSD	41.4 %	11.6 %	0.1 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0003 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	355.3 %	166.5 %	91.5 %	1,777.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0000 ppm	0.0027 ppm	-0.0004 ppm	0.0005 ppm
Concentration per Run 1	0.000 ppm	0.005 ppm	-0.002 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.002 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.004 ppm	-0.001 ppm	0.001 ppm
Concentration RSD	562.2 %	95.9 %	605.5 %	79.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0053 ppm	0.0001 ppm	8.9272 ppm	-0.0003 ppm
Concentration per Run 1	-0.010 ppm	0.000 ppm	8.932 ppm	0.001 ppm
Concentration per Run 2	-0.007 ppm	0.000 ppm	8.917 ppm	-0.001 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	8.933 ppm	-0.001 ppm
Concentration RSD	107.8 %	32.9 %	0.1 %	245.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0015 ppm	97.7841 %	106.3641 %	102.1161 %
Concentration per Run 1	0.000 ppm	97.616 %	106.280 %	101.913 %
Concentration per Run 2	0.000 ppm	97.915 %	106.063 %	102.360 %
Concentration per Run 3	0.005 ppm	97.822 %	106.749 %	102.075 %
Concentration RSD	178.8 %	0.2 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.2 %	0.4 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.0618 %	0.0313 ppm
Concentration per Run 1	100.857 %	0.018 ppm
Concentration per Run 2	101.115 %	0.041 ppm
Concentration per Run 3	101.213 %	0.034 ppm
Concentration RSD	0.2 %	38.4 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	5 cps	3 cps	0 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	0 cps	1 cps	-10 cps	11 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	2 cps	12 cps	8 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	20 cps	120 cps	32 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2 cps	-17 cps	24,910 cps	1,709 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	-2 cps	-3 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	16 cps	-1 cps	1 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-25 cps	22,391 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-1 cps	4,633 cps	8,609 cps	167,929 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,863 cps	4 cps

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QTEGRA

ICSA3

Sample Type QC Analysis Date 10/15/2015 10:24:49 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0092 ppm	0.0002 ppm	0.0000 ppm	10.0807 ppm
Concentration per Run 1	0.009 ppm	0.000 ppm	0.000 ppm	10.070 ppm
Concentration per Run 2	0.008 ppm	0.000 ppm	0.000 ppm	10.092 ppm
Concentration per Run 3	0.011 ppm	0.000 ppm	0.000 ppm	10.080 ppm
Concentration RSD	17.0 %	63.8 %	994.6 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	-0.0261 ppm	0.0055 ppm	0.0017 ppm	9.9605 ppm
Concentration per Run 1	-0.025 ppm	0.010 ppm	0.002 ppm	9.967 ppm
Concentration per Run 2	-0.027 ppm	0.001 ppm	0.002 ppm	9.981 ppm
Concentration per Run 3	-0.027 ppm	0.005 ppm	0.002 ppm	9.934 ppm
Concentration RSD	3.4 %	75.5 %	0.7 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0010 ppm	-0.0206 ppm	0.0173 ppm	0.0091 ppm
Concentration per Run 1	0.001 ppm	-0.021 ppm	0.012 ppm	0.009 ppm
Concentration per Run 2	0.001 ppm	-0.021 ppm	0.037 ppm	0.010 ppm
Concentration per Run 3	0.001 ppm	-0.019 ppm	0.003 ppm	0.008 ppm
Concentration RSD	44.3 %	5.9 %	101.6 %	11.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0114 ppm	-0.0008 ppm	0.0200 ppm	0.0237 ppm
Concentration per Run 1	0.038 ppm	-0.001 ppm	0.023 ppm	0.031 ppm
Concentration per Run 2	-0.078 ppm	0.000 ppm	0.022 ppm	0.015 ppm
Concentration per Run 3	0.074 ppm	-0.002 ppm	0.015 ppm	0.024 ppm
Concentration RSD	701.4 %	106.9 %	20.9 %	33.7 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0380 ppm	0.0864 ppm	0.0197 ppm	-0.0609 ppm
Concentration per Run 1	-0.054 ppm	0.099 ppm	0.016 ppm	-0.126 ppm
Concentration per Run 2	-0.026 ppm	0.070 ppm	0.031 ppm	-0.034 ppm
Concentration per Run 3	-0.034 ppm	0.090 ppm	0.012 ppm	-0.023 ppm
Concentration RSD	38.8 %	17.4 %	50.0 %	92.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0190 ppm	0.0000 ppm	0.0000 ppm	-0.0023 ppm
Concentration per Run 1	-0.014 ppm	0.000 ppm	0.000 ppm	-0.003 ppm
Concentration per Run 2	-0.015 ppm	0.000 ppm	0.000 ppm	-0.004 ppm
Concentration per Run 3	-0.028 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	42.1 %	1,800.6 %	178.7 %	67.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	9.8133 ppm	-0.0236 ppm	0.0009 ppm	0.0006 ppm
Concentration per Run 1	9.817 ppm	-0.025 ppm	0.001 ppm	0.001 ppm
Concentration per Run 2	9.821 ppm	-0.023 ppm	0.003 ppm	0.001 ppm
Concentration per Run 3	9.802 ppm	-0.023 ppm	-0.001 ppm	0.001 ppm
Concentration RSD	0.1 %	3.9 %	191.2 %	12.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0030 ppm	0.0000 ppm	0.0046 ppm	-0.0006 ppm
Concentration per Run 1	0.006 ppm	0.000 ppm	0.006 ppm	0.000 ppm
Concentration per Run 2	-0.007 ppm	0.000 ppm	0.005 ppm	-0.001 ppm
Concentration per Run 3	-0.008 ppm	0.000 ppm	0.003 ppm	-0.001 ppm
Concentration RSD	257.9 %	53.0 %	28.8 %	56.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0454 ppm	100.2941 %	107.5658 %	103.3081 %
Concentration per Run 1	0.047 ppm	100.046 %	107.334 %	103.314 %
Concentration per Run 2	0.045 ppm	100.093 %	108.234 %	103.407 %
Concentration per Run 3	0.044 ppm	100.744 %	107.130 %	103.204 %
Concentration RSD	3.7 %	0.4 %	0.5 %	0.1 %
Concentration SD	0.0 ppm	0.4 %	0.6 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.8060 %	0.0583 ppm
Concentration per Run 1	100.514 %	0.045 ppm
Concentration per Run 2	100.733 %	0.076 ppm
Concentration per Run 3	101.171 %	0.054 ppm
Concentration RSD	0.3 %	26.9 %
Concentration SD	0.3 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	5 cps	2 cps	91,277 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-23 cps	2 cps	-2 cps	6,974 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-1 cps	-107 cps	13 cps	8 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	20 cps	114 cps	33 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	-2 cps	-23 cps	-21 cps	-22 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	-9 cps	-2 cps	-2 cps	-4 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	425,142 cps	-14 cps	4 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-26 cps	66 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	12 cps	4,752 cps	8,707 cps	169,889 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,820 cps	13 cps

Comprehensive sample report

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Ce IEC

Sample Type UNKNOWN Analysis Date 10/15/2015 10:28:04 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0098 ppm	0.0000 ppm	0.0004 ppm	-0.0010 ppm
Concentration per Run 1	-0.011 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	-0.009 ppm	0.000 ppm	0.000 ppm	N/A
Concentration per Run 3	-0.009 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	12.5 %	1,163.0 %	6.8 %	47.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0011 ppm	-0.0358 ppm	-0.0062 ppm	-0.0045 ppm
Concentration per Run 1	0.001 ppm	-0.041 ppm	-0.003 ppm	-0.013 ppm
Concentration per Run 2	0.002 ppm	-0.033 ppm	N/A	0.001 ppm
Concentration per Run 3	0.000 ppm	-0.034 ppm	-0.010 ppm	-0.002 ppm
Concentration RSD	57.9 %	12.2 %	81.7 %	164.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	-0.0001 ppm	0.0008 ppm	0.0905 ppm	0.0050 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.222 ppm	0.008 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	-0.005 ppm	0.006 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	0.054 ppm	0.000 ppm
Concentration RSD	420.5 %	5.2 %	129.6 %	82.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0296 ppm	0.0011 ppm	0.0270 ppm	0.0523 ppm
Concentration per Run 1	0.120 ppm	0.004 ppm	0.043 ppm	0.111 ppm
Concentration per Run 2	-0.015 ppm	0.000 ppm	0.025 ppm	0.038 ppm
Concentration per Run 3	-0.017 ppm	0.000 ppm	0.013 ppm	0.008 ppm
Concentration RSD	265.6 %	217.8 %	56.0 %	101.2 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0083 ppm	0.0052 ppm	-0.0470 ppm	-0.3282 ppm
Concentration per Run 1	0.021 ppm	-0.069 ppm	-0.088 ppm	-0.663 ppm
Concentration per Run 2	0.038 ppm	0.016 ppm	-0.028 ppm	-0.166 ppm
Concentration per Run 3	-0.034 ppm	0.069 ppm	-0.025 ppm	-0.156 ppm
Concentration RSD	451.3 %	1,347.1 %	76.1 %	88.4 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm	0.3 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0197 ppm	-0.0002 ppm	0.0001 ppm	-0.0659 ppm
Concentration per Run 1	-0.021 ppm	0.000 ppm	0.000 ppm	-0.078 ppm
Concentration per Run 2	-0.020 ppm	0.000 ppm	0.000 ppm	-0.063 ppm
Concentration per Run 3	-0.018 ppm	0.000 ppm	0.000 ppm	-0.057 ppm
Concentration RSD	7.9 %	85.4 %	113.8 %	16.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0003 ppm	0.0046 ppm	0.0007 ppm	-0.0013 ppm
Concentration per Run 1	0.000 ppm	0.012 ppm	0.002 ppm	-0.002 ppm
Concentration per Run 2	N/A	0.001 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	27.0 %	147.7 %	122.5 %	41.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0042 ppm	-0.0001 ppm	0.0069 ppm	0.0018 ppm
Concentration per Run 1	0.005 ppm	-0.001 ppm	-0.002 ppm	0.002 ppm
Concentration per Run 2	-0.008 ppm	0.000 ppm	N/A	0.002 ppm
Concentration per Run 3	-0.009 ppm	0.000 ppm	0.016 ppm	0.002 ppm
Concentration RSD	182.0 %	728.6 %	191.0 %	15.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	-0.0073 ppm	101.7650 %	120.5638 %	137.4572 %
Concentration per Run 1	-0.009 ppm	102.025 %	83.183 %	168.345 %
Concentration per Run 2	-0.007 ppm	101.752 %	129.228 %	
Concentration per Run 3	-0.007 ppm	101.518 %	149.280 %	106.569 %
Concentration RSD	14.4 %	0.2 %	28.1 %	31.8 %
Concentration SD	0.0 ppm	0.3 %	33.9 %	43.7 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	102.2096 %	2.3869 ppm
Concentration per Run 1	102.472 %	0.051 ppm
Concentration per Run 2	102.220 %	3.548 ppm
Concentration per Run 3	101.937 %	3.562 ppm
Concentration RSD	0.3 %	84.8 %
Concentration SD	0.3 %	2.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-8 cps	3 cps	5 cps	-2 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	-10 cps	-78 cps	13 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	7 cps	20 cps	6 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	40 cps	130 cps	43 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	-71 cps	-129 cps	-50 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	-9 cps	-6 cps	-2 cps	-47 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	37 cps	-1 cps	3 cps	0 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-29 cps	86 cps	4 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-4 cps	4,822 cps	9,759 cps	226,046 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,054 cps	738 cps

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Sample Type UNKNOWN Analysis Date 10/15/2015 10:31:16 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0003 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	239.2 %	312.7 %	662.5 %	95.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0008 ppm	0.0000 ppm	0.0003 ppm	-0.0005 ppm
Concentration per Run 1	-0.001 ppm	-0.001 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	0.005 ppm
Concentration per Run 3	0.001 ppm	0.001 ppm	0.001 ppm	-0.005 ppm
Concentration RSD	147.0 %	2,949.1 %	136.8 %	941.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0004 ppm	-0.0003 ppm	-0.0088 ppm	0.0011 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.026 ppm	0.005 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.030 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	-0.030 ppm	-0.002 ppm
Concentration RSD	96.6 %	21.4 %	379.4 %	335.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0454 ppm	-0.0004 ppm	0.0090 ppm	-0.0051 ppm
Concentration per Run 1	0.018 ppm	0.001 ppm	0.007 ppm	-0.020 ppm
Concentration per Run 2	0.050 ppm	0.001 ppm	0.010 ppm	-0.011 ppm
Concentration per Run 3	0.068 ppm	-0.003 ppm	0.010 ppm	0.016 ppm
Concentration RSD	55.4 %	490.1 %	21.4 %	373.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0101 ppm	0.0874 ppm	0.0057 ppm	-0.2448 ppm
Concentration per Run 1	0.002 ppm	0.089 ppm	0.000 ppm	-0.318 ppm
Concentration per Run 2	0.008 ppm	0.069 ppm	0.004 ppm	-0.127 ppm
Concentration per Run 3	0.020 ppm	0.104 ppm	0.013 ppm	-0.290 ppm
Concentration RSD	93.4 %	20.2 %	121.0 %	42.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0006 ppm	-0.0001 ppm	0.0000 ppm	0.0011 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	127.1 %	58.8 %	716.3 %	46.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0001 ppm	0.0032 ppm	0.0003 ppm	-0.0001 ppm
Concentration per Run 1	0.000 ppm	0.004 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.003 ppm	0.001 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.003 ppm	0.000 ppm	0.000 ppm
Concentration RSD	6.3 %	20.4 %	215.6 %	101.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0018 ppm	-0.0001 ppm	-0.0004 ppm	0.0001 ppm
Concentration per Run 1	-0.010 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	0.004 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	405.2 %	111.7 %	39.8 %	160.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	-0.0003 ppm	101.3218 %	104.7971 %	102.5460 %
Concentration per Run 1	-0.001 ppm	101.156 %	105.095 %	102.634 %
Concentration per Run 2	-0.002 ppm	101.377 %	104.272 %	102.323 %
Concentration per Run 3	0.003 ppm	101.432 %	105.024 %	102.681 %
Concentration RSD	882.1 %	0.1 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	0.1 %	0.5 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.1573 %	0.0213 ppm
Concentration per Run 1	101.108 %	0.076 ppm
Concentration per Run 2	101.247 %	-0.014 ppm
Concentration per Run 3	101.117 %	0.001 ppm
Concentration RSD	0.1 %	226.0 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	3 cps	1 cps	3 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	0 cps	-15 cps	13 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-2 cps	1 cps	11 cps	3 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2 cps	24 cps	105 cps	24 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	-22 cps	-42 cps	-40 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-4 cps	-3 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	21 cps	-1 cps	3 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-28 cps	53 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-2 cps	4,801 cps	8,483 cps	168,635 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,879 cps	1 cps

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Sample Type QC Analysis Date 10/15/2015 10:34:25 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0305 ppm	0.5069 ppm	0.5112 ppm	1.0211 ppm
Concentration per Run 1	2.036 ppm	0.507 ppm	0.511 ppm	1.021 ppm
Concentration per Run 2	2.025 ppm	0.507 ppm	0.512 ppm	1.020 ppm
Concentration per Run 3	2.031 ppm	0.507 ppm	0.510 ppm	1.023 ppm
Concentration RSD	0.3 %	0.0 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5011 ppm	2.0810 ppm	0.9915 ppm	1.9825 ppm
Concentration per Run 1	0.501 ppm	2.078 ppm	0.989 ppm	1.979 ppm
Concentration per Run 2	0.500 ppm	2.086 ppm	0.994 ppm	1.992 ppm
Concentration per Run 3	0.502 ppm	2.079 ppm	0.992 ppm	1.977 ppm
Concentration RSD	0.1 %	0.2 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0699 ppm	3.0485 ppm	10.2081 ppm	10.1728 ppm
Concentration per Run 1	2.073 ppm	3.051 ppm	10.160 ppm	10.147 ppm
Concentration per Run 2	2.072 ppm	3.050 ppm	10.224 ppm	10.200 ppm
Concentration per Run 3	2.065 ppm	3.045 ppm	10.240 ppm	10.172 ppm
Concentration RSD	0.2 %	0.1 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.8841 ppm	1.4326 ppm	48.8122 ppm	53.2139 ppm
Concentration per Run 1	10.800 ppm	1.437 ppm	48.962 ppm	53.350 ppm
Concentration per Run 2	10.931 ppm	1.429 ppm	48.806 ppm	53.149 ppm
Concentration per Run 3	10.922 ppm	1.432 ppm	48.668 ppm	53.142 ppm
Concentration RSD	0.7 %	0.3 %	0.3 %	0.2 %
Concentration SD	0.1 ppm	0.0 ppm	0.1 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.1042 ppm	49.1213 ppm	47.8812 ppm	50.2539 ppm
Concentration per Run 1	10.089 ppm	49.241 ppm	47.912 ppm	50.094 ppm
Concentration per Run 2	10.144 ppm	48.929 ppm	47.753 ppm	50.335 ppm
Concentration per Run 3	10.080 ppm	49.194 ppm	47.979 ppm	50.333 ppm
Concentration RSD	0.3 %	0.3 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.2 ppm	0.1 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0313 ppm	0.2045 ppm	1.0259 ppm	1.9479 ppm
Concentration per Run 1	2.034 ppm	0.204 ppm	1.026 ppm	1.948 ppm
Concentration per Run 2	2.036 ppm	0.205 ppm	1.028 ppm	1.949 ppm
Concentration per Run 3	2.024 ppm	0.204 ppm	1.024 ppm	1.946 ppm
Concentration RSD	0.3 %	0.1 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.0022 ppm	1.0224 ppm	1.0233 ppm	0.5257 ppm
Concentration per Run 1	1.000 ppm	1.025 ppm	1.018 ppm	0.526 ppm
Concentration per Run 2	1.004 ppm	1.025 ppm	1.025 ppm	0.525 ppm
Concentration per Run 3	1.002 ppm	1.018 ppm	1.027 ppm	0.526 ppm
Concentration RSD	0.2 %	0.4 %	0.5 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	2.0589 ppm	0.9831 ppm	1.9889 ppm	1.9416 ppm
Concentration per Run 1	2.055 ppm	0.983 ppm	1.987 ppm	1.945 ppm
Concentration per Run 2	2.072 ppm	0.983 ppm	1.992 ppm	1.944 ppm
Concentration per Run 3	2.050 ppm	0.983 ppm	1.987 ppm	1.936 ppm
Concentration RSD	0.5 %	0.0 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.8771 ppm	88.4937 %	104.2581 %	96.1523 %
Concentration per Run 1	4.874 ppm	88.511 %	103.972 %	96.339 %
Concentration per Run 2	4.887 ppm	88.345 %	104.572 %	96.271 %
Concentration per Run 3	4.870 ppm	88.625 %	104.231 %	95.846 %
Concentration RSD	0.2 %	0.2 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	0.3 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	95.9909 %	0.0953 ppm
Concentration per Run 1	96.028 %	0.111 ppm
Concentration per Run 2	95.856 %	0.087 ppm
Concentration per Run 3	96.088 %	0.088 ppm
Concentration RSD	0.1 %	14.4 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	808 cps	3,566 cps	4,228 cps	8,611 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	356 cps	582 cps	8,700 cps	1,356 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,852 cps	15,487 cps	752 cps	5,998 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	312 cps	14,487 cps	27,280 cps	15,218 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	549 cps	28,251 cps	72,309 cps	5,076 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,044 cps	3,495 cps	5,202 cps	1,136 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,423 cps	513 cps	1,812 cps	1,012 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	664 cps	27,798 cps	4,736 cps	2,507 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,398 cps	4,193 cps	8,439 cps	158,121 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,017 cps	24 cps

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Sample Type QC Analysis Date 10/15/2015 10:37:10 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0023 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	105.3 %	199.9 %	328.1 %	233.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	-0.0001 ppm	0.0030 ppm	0.0004 ppm	0.0005 ppm
Concentration per Run 1	0.001 ppm	0.001 ppm	0.001 ppm	-0.001 ppm
Concentration per Run 2	-0.001 ppm	0.004 ppm	-0.001 ppm	0.002 ppm
Concentration per Run 3	-0.001 ppm	0.004 ppm	0.001 ppm	0.001 ppm
Concentration RSD	1,362.8 %	55.7 %	231.8 %	348.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0003 ppm	-0.0002 ppm	-0.0046 ppm	0.0020 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.002 ppm	0.002 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.018 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.035 ppm	0.004 ppm
Concentration RSD	71.6 %	70.3 %	590.8 %	95.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0433 ppm	0.0003 ppm	0.0093 ppm	0.0054 ppm
Concentration per Run 1	0.041 ppm	0.001 ppm	0.010 ppm	-0.002 ppm
Concentration per Run 2	0.065 ppm	0.000 ppm	0.006 ppm	0.003 ppm
Concentration per Run 3	0.024 ppm	-0.001 ppm	0.012 ppm	0.015 ppm
Concentration RSD	48.4 %	417.0 %	36.8 %	166.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0135 ppm	0.1148 ppm	0.0178 ppm	-0.3023 ppm
Concentration per Run 1	0.000 ppm	0.132 ppm	0.020 ppm	-0.291 ppm
Concentration per Run 2	0.015 ppm	0.114 ppm	0.017 ppm	-0.384 ppm
Concentration per Run 3	0.026 ppm	0.099 ppm	0.016 ppm	-0.232 ppm
Concentration RSD	94.7 %	14.5 %	13.9 %	25.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0046 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.004 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.004 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.006 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	20.6 %	94.6 %	66.3 %	460.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0000 ppm	0.0053 ppm	0.0007 ppm	0.0007 ppm
Concentration per Run 1	0.000 ppm	0.005 ppm	0.002 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.002 ppm	0.001 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.009 ppm	0.000 ppm	0.001 ppm
Concentration RSD	8,917.0 %	72.3 %	156.5 %	49.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0050 ppm	0.0002 ppm	-0.0006 ppm	0.0009 ppm
Concentration per Run 1	-0.003 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.003 ppm	0.000 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 3	-0.015 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	182.0 %	39.2 %	93.9 %	51.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	-0.0012 ppm	101.6852 %	104.8254 %	102.9497 %
Concentration per Run 1	-0.003 ppm	101.613 %	104.396 %	103.217 %
Concentration per Run 2	0.001 ppm	101.816 %	104.773 %	102.602 %
Concentration per Run 3	-0.002 ppm	101.626 %	105.306 %	103.030 %
Concentration RSD	144.4 %	0.1 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	0.5 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.3491 %	0.0545 ppm
Concentration per Run 1	101.234 %	0.038 ppm
Concentration per Run 2	101.377 %	0.083 ppm
Concentration per Run 3	101.436 %	0.043 ppm
Concentration RSD	0.1 %	45.1 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	4 cps	2 cps	4 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-14 cps	14 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	2 cps	11 cps	3 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2 cps	30 cps	105 cps	27 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	-6 cps	-24 cps	-46 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	-3 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	17 cps	1 cps	3 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-21 cps	53 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-2 cps	4,818 cps	8,485 cps	169,299 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,911 cps	11 cps

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Sample Type QC Analysis Date 10/15/2015 10:40:23 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0113 ppm	0.0052 ppm	0.0020 ppm	0.0098 ppm
Concentration per Run 1	0.012 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration per Run 2	0.012 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration per Run 3	0.010 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration RSD	11.0 %	2.0 %	10.8 %	2.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0064 ppm	0.0091 ppm	0.0053 ppm	0.0103 ppm
Concentration per Run 1	0.007 ppm	0.006 ppm	0.005 ppm	0.014 ppm
Concentration per Run 2	0.006 ppm	0.009 ppm	0.006 ppm	0.012 ppm
Concentration per Run 3	0.006 ppm	0.012 ppm	0.005 ppm	0.005 ppm
Concentration RSD	8.7 %	30.7 %	12.2 %	45.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0101 ppm	0.0521 ppm	0.2295 ppm	0.1063 ppm
Concentration per Run 1	0.010 ppm	0.053 ppm	0.235 ppm	0.107 ppm
Concentration per Run 2	0.010 ppm	0.053 ppm	0.224 ppm	0.104 ppm
Concentration per Run 3	0.010 ppm	0.051 ppm	0.229 ppm	0.108 ppm
Concentration RSD	3.4 %	2.6 %	2.5 %	1.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.1567 ppm	0.0154 ppm	1.0244 ppm	1.1128 ppm
Concentration per Run 1	0.067 ppm	0.015 ppm	1.019 ppm	1.114 ppm
Concentration per Run 2	0.209 ppm	0.015 ppm	1.022 ppm	1.113 ppm
Concentration per Run 3	0.194 ppm	0.016 ppm	1.032 ppm	1.111 ppm
Concentration RSD	49.9 %	3.9 %	0.6 %	0.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	1.0111 ppm	1.1618 ppm	1.0347 ppm	0.6234 ppm
Concentration per Run 1	0.990 ppm	1.136 ppm	1.033 ppm	0.557 ppm
Concentration per Run 2	1.000 ppm	1.188 ppm	1.035 ppm	0.640 ppm
Concentration per Run 3	1.042 ppm	1.161 ppm	1.036 ppm	0.673 ppm
Concentration RSD	2.7 %	2.2 %	0.1 %	9.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0101 ppm	0.0020 ppm	0.0098 ppm	0.0104 ppm
Concentration per Run 1	0.008 ppm	0.002 ppm	0.010 ppm	0.010 ppm
Concentration per Run 2	0.011 ppm	0.002 ppm	0.010 ppm	0.010 ppm
Concentration per Run 3	0.011 ppm	0.002 ppm	0.009 ppm	0.011 ppm
Concentration RSD	15.9 %	4.9 %	3.4 %	8.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0105 ppm	0.0208 ppm	0.0514 ppm	0.0051 ppm
Concentration per Run 1	0.010 ppm	0.023 ppm	0.049 ppm	0.005 ppm
Concentration per Run 2	0.011 ppm	0.020 ppm	0.052 ppm	0.005 ppm
Concentration per Run 3	0.010 ppm	0.019 ppm	0.053 ppm	0.005 ppm
Concentration RSD	0.7 %	11.3 %	4.0 %	5.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0461 ppm	0.0102 ppm	0.0469 ppm	0.0483 ppm
Concentration per Run 1	0.045 ppm	0.010 ppm	0.045 ppm	0.050 ppm
Concentration per Run 2	0.047 ppm	0.010 ppm	0.047 ppm	0.049 ppm
Concentration per Run 3	0.047 ppm	0.010 ppm	0.049 ppm	0.047 ppm
Concentration RSD	2.8 %	0.9 %	3.5 %	3.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.9214 ppm	100.3364 %	105.4588 %	102.5266 %
Concentration per Run 1	0.932 ppm	100.059 %	106.198 %	102.524 %
Concentration per Run 2	0.923 ppm	100.511 %	105.037 %	102.423 %
Concentration per Run 3	0.910 ppm	100.440 %	105.141 %	102.633 %
Concentration RSD	1.2 %	0.2 %	0.6 %	0.1 %
Concentration SD	0.0 ppm	0.2 %	0.6 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.0866 %	0.0365 ppm
Concentration per Run 1	100.936 %	0.077 ppm
Concentration per Run 2	101.120 %	-0.028 ppm
Concentration per Run 3	101.204 %	0.061 ppm
Concentration RSD	0.1 %	155.5 %
Concentration SD	0.1 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1 cps	41 cps	19 cps	95 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	3 cps	3 cps	32 cps	20 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	18 cps	281 cps	29 cps	66 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	5 cps	185 cps	677 cps	347 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	56 cps	605 cps	1,531 cps	48 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	7 cps	33 cps	54 cps	4 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	467 cps	8 cps	94 cps	13 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	19 cps	266 cps	172 cps	68 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	277 cps	4,754 cps	8,536 cps	168,604 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,867 cps	6 cps

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CCV 15I21330

Sample Type QC Analysis Date 10/15/2015 11:13:27 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0135 ppm	0.4933 ppm	0.5010 ppm	1.0125 ppm
Concentration per Run 1	2.021 ppm	0.493 ppm	0.502 ppm	1.012 ppm
Concentration per Run 2	2.003 ppm	0.493 ppm	0.500 ppm	1.011 ppm
Concentration per Run 3	2.017 ppm	0.494 ppm	0.501 ppm	1.015 ppm
Concentration RSD	0.5 %	0.1 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.4972 ppm	2.0530 ppm	0.9870 ppm	2.0177 ppm
Concentration per Run 1	0.499 ppm	2.055 ppm	0.989 ppm	2.012 ppm
Concentration per Run 2	0.495 ppm	2.045 ppm	0.987 ppm	2.020 ppm
Concentration per Run 3	0.498 ppm	2.059 ppm	0.985 ppm	2.021 ppm
Concentration RSD	0.4 %	0.4 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0524 ppm	3.0024 ppm	10.1315 ppm	10.1417 ppm
Concentration per Run 1	2.053 ppm	3.011 ppm	10.195 ppm	10.138 ppm
Concentration per Run 2	2.047 ppm	2.991 ppm	10.114 ppm	10.132 ppm
Concentration per Run 3	2.056 ppm	3.005 ppm	10.085 ppm	10.155 ppm
Concentration RSD	0.2 %	0.3 %	0.6 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	11.1635 ppm	1.4370 ppm	50.2826 ppm	54.1634 ppm
Concentration per Run 1	11.223 ppm	1.435 ppm	50.201 ppm	54.129 ppm
Concentration per Run 2	11.068 ppm	1.431 ppm	50.341 ppm	54.131 ppm
Concentration per Run 3	11.200 ppm	1.445 ppm	50.306 ppm	54.230 ppm
Concentration RSD	0.8 %	0.5 %	0.1 %	0.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.1 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.3438 ppm	50.1595 ppm	48.0824 ppm	49.9334 ppm
Concentration per Run 1	10.318 ppm	50.085 ppm	48.092 ppm	49.924 ppm
Concentration per Run 2	10.448 ppm	50.110 ppm	48.032 ppm	49.940 ppm
Concentration per Run 3	10.265 ppm	50.284 ppm	48.123 ppm	49.937 ppm
Concentration RSD	0.9 %	0.2 %	0.1 %	0.0 %
Concentration SD	0.1 ppm	0.1 ppm	0.0 ppm	0.0 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.9998 ppm	0.2046 ppm	1.0155 ppm	1.9897 ppm
Concentration per Run 1	2.001 ppm	0.205 ppm	1.017 ppm	1.989 ppm
Concentration per Run 2	1.997 ppm	0.204 ppm	1.012 ppm	1.987 ppm
Concentration per Run 3	2.001 ppm	0.204 ppm	1.017 ppm	1.994 ppm
Concentration RSD	0.1 %	0.2 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9961 ppm	1.0179 ppm	1.0590 ppm	0.4769 ppm
Concentration per Run 1	0.994 ppm	1.028 ppm	1.056 ppm	0.476 ppm
Concentration per Run 2	0.995 ppm	1.020 ppm	1.068 ppm	0.476 ppm
Concentration per Run 3	0.999 ppm	1.005 ppm	1.053 ppm	0.478 ppm
Concentration RSD	0.3 %	1.1 %	0.7 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	2.0722 ppm	1.0091 ppm	1.9616 ppm	1.9574 ppm
Concentration per Run 1	2.074 ppm	1.010 ppm	1.957 ppm	1.961 ppm
Concentration per Run 2	2.069 ppm	1.005 ppm	1.963 ppm	1.952 ppm
Concentration per Run 3	2.074 ppm	1.012 ppm	1.965 ppm	1.959 ppm
Concentration RSD	0.1 %	0.3 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.8222 ppm	89.0505 %	104.0635 %	96.6204 %
Concentration per Run 1	4.813 ppm	88.954 %	104.146 %	96.453 %
Concentration per Run 2	4.822 ppm	89.089 %	104.052 %	96.568 %
Concentration per Run 3	4.832 ppm	89.109 %	103.993 %	96.841 %
Concentration RSD	0.2 %	0.1 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.1 %	0.1 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	97.2579 %	0.0647 ppm
Concentration per Run 1	97.249 %	0.053 ppm
Concentration per Run 2	97.137 %	0.098 ppm
Concentration per Run 3	97.388 %	0.043 ppm
Concentration RSD	0.1 %	45.7 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	812 cps	3,516 cps	4,198 cps	8,580 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	356 cps	582 cps	8,702 cps	1,377 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,843 cps	15,454 cps	746 cps	5,968 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	320 cps	14,505 cps	28,047 cps	15,460 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	561 cps	28,796 cps	72,478 cps	5,034 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,041 cps	3,490 cps	5,182 cps	1,168 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,376 cps	510 cps	1,872 cps	930 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	667 cps	28,481 cps	4,695 cps	2,561 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,401 cps	4,220 cps	8,423 cps	158,891 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,228 cps	15 cps

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Sample Type QC Analysis Date 10/15/2015 11:16:10 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0018 ppm	0.0000 ppm	0.0000 ppm	-0.0003 ppm
Concentration per Run 1	0.002 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	20.6 %	921.7 %	223.2 %	63.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	-0.0003 ppm	-0.0003 ppm	0.0004 ppm	0.0021 ppm
Concentration per Run 1	0.000 ppm	-0.002 ppm	0.001 ppm	0.002 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	0.000 ppm	0.003 ppm
Concentration RSD	115.5 %	574.7 %	138.1 %	22.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0001 ppm	-0.0002 ppm	-0.0067 ppm	-0.0022 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.012 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.011 ppm	-0.004 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.021 ppm	-0.002 ppm
Concentration RSD	370.0 %	51.7 %	248.4 %	101.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0064 ppm	-0.0003 ppm	-0.0046 ppm	-0.0128 ppm
Concentration per Run 1	0.005 ppm	0.001 ppm	-0.003 ppm	-0.006 ppm
Concentration per Run 2	-0.024 ppm	-0.001 ppm	-0.007 ppm	-0.015 ppm
Concentration per Run 3	0.038 ppm	0.000 ppm	-0.004 ppm	-0.017 ppm
Concentration RSD	487.0 %	306.6 %	40.4 %	44.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0122 ppm	0.1169 ppm	0.0203 ppm	-0.1771 ppm
Concentration per Run 1	-0.022 ppm	0.117 ppm	0.023 ppm	-0.139 ppm
Concentration per Run 2	0.023 ppm	0.132 ppm	0.027 ppm	-0.166 ppm
Concentration per Run 3	0.036 ppm	0.101 ppm	0.011 ppm	-0.226 ppm
Concentration RSD	252.1 %	13.2 %	39.4 %	25.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0064 ppm	-0.0001 ppm	0.0002 ppm	-0.0002 ppm
Concentration per Run 1	0.007 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.006 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.007 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	8.2 %	95.0 %	132.6 %	774.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0000 ppm	0.0006 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.001 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	-0.001 ppm	0.000 ppm
Concentration RSD	154.1 %	80.7 %	419.6 %	142.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0063 ppm	0.0001 ppm	0.0003 ppm	0.0009 ppm
Concentration per Run 1	-0.009 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	-0.004 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	-0.006 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	40.5 %	114.7 %	73.3 %	6.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0008 ppm	101.4652 %	104.9862 %	102.9263 %
Concentration per Run 1	0.004 ppm	101.412 %	104.772 %	102.629 %
Concentration per Run 2	-0.001 ppm	101.640 %	105.229 %	103.010 %
Concentration per Run 3	-0.001 ppm	101.344 %	104.957 %	103.140 %
Concentration RSD	401.9 %	0.2 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.2 %	0.2 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.9897 %	0.0075 ppm
Concentration per Run 1	101.926 %	0.033 ppm
Concentration per Run 2	102.144 %	0.023 ppm
Concentration per Run 3	101.900 %	-0.033 ppm
Concentration RSD	0.1 %	472.5 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	4 cps	2 cps	4 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	0 cps	-14 cps	15 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	1 cps	11 cps	1 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	24 cps	97 cps	22 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	-4 cps	-20 cps	-33 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	5 cps	-3 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	18 cps	-2 cps	2 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-24 cps	55 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-1 cps	4,808 cps	8,498 cps	169,261 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,018 cps	-3 cps

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Sample Type QC Analysis Date 10/15/2015 11:56:24 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0101 ppm	0.4933 ppm	0.5012 ppm	1.0149 ppm
Concentration per Run 1	2.016 ppm	0.493 ppm	0.502 ppm	1.013 ppm
Concentration per Run 2	2.010 ppm	0.494 ppm	0.501 ppm	1.014 ppm
Concentration per Run 3	2.004 ppm	0.493 ppm	0.500 ppm	1.017 ppm
Concentration RSD	0.3 %	0.1 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.4957 ppm	2.0505 ppm	0.9876 ppm	2.0171 ppm
Concentration per Run 1	0.494 ppm	2.052 ppm	0.988 ppm	2.013 ppm
Concentration per Run 2	0.494 ppm	2.057 ppm	0.989 ppm	2.011 ppm
Concentration per Run 3	0.499 ppm	2.042 ppm	0.986 ppm	2.028 ppm
Concentration RSD	0.6 %	0.4 %	0.2 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0528 ppm	3.0066 ppm	10.1523 ppm	10.1707 ppm
Concentration per Run 1	2.049 ppm	3.002 ppm	10.216 ppm	10.210 ppm
Concentration per Run 2	2.055 ppm	3.011 ppm	10.163 ppm	10.147 ppm
Concentration per Run 3	2.054 ppm	3.007 ppm	10.078 ppm	10.155 ppm
Concentration RSD	0.2 %	0.1 %	0.7 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	11.2076 ppm	1.4326 ppm	50.5126 ppm	54.3205 ppm
Concentration per Run 1	11.277 ppm	1.442 ppm	50.782 ppm	54.665 ppm
Concentration per Run 2	11.132 ppm	1.425 ppm	50.247 ppm	54.010 ppm
Concentration per Run 3	11.215 ppm	1.430 ppm	50.508 ppm	54.286 ppm
Concentration RSD	0.6 %	0.6 %	0.5 %	0.6 %
Concentration SD	0.1 ppm	0.0 ppm	0.3 ppm	0.3 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.3771 ppm	50.1068 ppm	48.0324 ppm	49.4543 ppm
Concentration per Run 1	10.356 ppm	50.443 ppm	48.303 ppm	49.626 ppm
Concentration per Run 2	10.394 ppm	49.794 ppm	47.823 ppm	49.457 ppm
Concentration per Run 3	10.381 ppm	50.084 ppm	47.972 ppm	49.280 ppm
Concentration RSD	0.2 %	0.6 %	0.5 %	0.4 %
Concentration SD	0.0 ppm	0.3 ppm	0.2 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.9875 ppm	0.2049 ppm	1.0161 ppm	1.9859 ppm
Concentration per Run 1	1.994 ppm	0.205 ppm	1.014 ppm	1.984 ppm
Concentration per Run 2	1.991 ppm	0.204 ppm	1.018 ppm	1.989 ppm
Concentration per Run 3	1.977 ppm	0.205 ppm	1.016 ppm	1.984 ppm
Concentration RSD	0.5 %	0.3 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9967 ppm	1.0172 ppm	1.0608 ppm	0.4768 ppm
Concentration per Run 1	0.995 ppm	1.019 ppm	1.065 ppm	0.478 ppm
Concentration per Run 2	0.998 ppm	1.015 ppm	1.059 ppm	0.478 ppm
Concentration per Run 3	0.997 ppm	1.017 ppm	1.058 ppm	0.474 ppm
Concentration RSD	0.2 %	0.2 %	0.3 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	2.0839 ppm	1.0088 ppm	1.9594 ppm	1.9572 ppm
Concentration per Run 1	2.092 ppm	1.014 ppm	1.968 ppm	1.959 ppm
Concentration per Run 2	2.081 ppm	1.003 ppm	1.956 ppm	1.961 ppm
Concentration per Run 3	2.079 ppm	1.009 ppm	1.955 ppm	1.951 ppm
Concentration RSD	0.3 %	0.6 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.8098 ppm	89.1343 %	104.0389 %	96.7858 %
Concentration per Run 1	4.816 ppm	89.110 %	104.040 %	96.915 %
Concentration per Run 2	4.818 ppm	89.194 %	104.089 %	97.079 %
Concentration per Run 3	4.795 ppm	89.099 %	103.987 %	96.363 %
Concentration RSD	0.3 %	0.1 %	0.0 %	0.4 %
Concentration SD	0.0 ppm	0.1 %	0.1 %	0.4 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	97.3825 %	0.0592 ppm
Concentration per Run 1	97.214 %	0.052 ppm
Concentration per Run 2	97.521 %	0.084 ppm
Concentration per Run 3	97.412 %	0.041 ppm
Concentration RSD	0.2 %	37.2 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	811 cps	3,520 cps	4,205 cps	8,615 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	355 cps	582 cps	8,722 cps	1,377 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,848 cps	15,495 cps	747 cps	5,984 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	321 cps	14,457 cps	28,168 cps	15,501 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	563 cps	28,759 cps	72,385 cps	4,984 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,036 cps	3,494 cps	5,190 cps	1,167 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,467 cps	509 cps	1,875 cps	931 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	670 cps	28,464 cps	4,698 cps	2,564 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,399 cps	4,224 cps	8,421 cps	159,163 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,249 cps	13 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0028 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.006 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	118.5 %	243.9 %	101.0 %	209.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0006 ppm	0.0030 ppm	0.0005 ppm	-0.0016 ppm
Concentration per Run 1	0.001 ppm	0.004 ppm	0.001 ppm	-0.002 ppm
Concentration per Run 2	0.001 ppm	0.003 ppm	0.001 ppm	-0.003 ppm
Concentration per Run 3	0.000 ppm	0.002 ppm	0.000 ppm	0.000 ppm
Concentration RSD	51.6 %	34.5 %	18.3 %	97.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0001 ppm	-0.0001 ppm	0.0263 ppm	0.0013 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.016 ppm	0.002 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.025 ppm	-0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.038 ppm	0.003 ppm
Concentration RSD	379.4 %	35.9 %	43.4 %	141.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0151 ppm	-0.0002 ppm	0.0049 ppm	0.0072 ppm
Concentration per Run 1	-0.015 ppm	0.000 ppm	0.005 ppm	0.023 ppm
Concentration per Run 2	0.002 ppm	-0.002 ppm	0.005 ppm	-0.009 ppm
Concentration per Run 3	0.058 ppm	0.002 ppm	0.004 ppm	0.008 ppm
Concentration RSD	252.1 %	1,313.4 %	10.9 %	222.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0344 ppm	0.0995 ppm	0.0228 ppm	-0.2685 ppm
Concentration per Run 1	0.034 ppm	0.113 ppm	0.021 ppm	-0.305 ppm
Concentration per Run 2	0.016 ppm	0.091 ppm	0.022 ppm	-0.335 ppm
Concentration per Run 3	0.053 ppm	0.094 ppm	0.025 ppm	-0.165 ppm
Concentration RSD	53.7 %	12.2 %	10.1 %	33.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0053 ppm	-0.0001 ppm	0.0001 ppm	-0.0007 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.005 ppm	0.000 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 3	0.006 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	16.9 %	137.6 %	325.9 %	284.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0000 ppm	0.0027 ppm	0.0003 ppm	0.0005 ppm
Concentration per Run 1	0.000 ppm	0.004 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.003 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.002 ppm	0.001 ppm	0.000 ppm
Concentration RSD	482.0 %	39.5 %	212.8 %	38.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0054 ppm	0.0000 ppm	0.0000 ppm	0.0007 ppm
Concentration per Run 1	-0.009 ppm	0.000 ppm	-0.002 ppm	0.001 ppm
Concentration per Run 2	-0.002 ppm	0.000 ppm	0.001 ppm	0.001 ppm
Concentration per Run 3	-0.005 ppm	0.000 ppm	0.001 ppm	0.001 ppm
Concentration RSD	63.7 %	570.2 %	5,839.1 %	20.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	-0.0011 ppm	101.9778 %	105.0398 %	103.3540 %
Concentration per Run 1	0.000 ppm	101.942 %	104.364 %	103.681 %
Concentration per Run 2	-0.001 ppm	102.124 %	105.647 %	103.040 %
Concentration per Run 3	-0.002 ppm	101.867 %	105.109 %	103.341 %
Concentration RSD	107.1 %	0.1 %	0.6 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	0.6 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	102.6103 %	0.0502 ppm
Concentration per Run 1	102.659 %	0.074 ppm
Concentration per Run 2	102.628 %	0.043 ppm
Concentration per Run 3	102.544 %	0.034 ppm
Concentration RSD	0.1 %	41.6 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	4 cps	2 cps	6 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	1 cps	-13 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	2 cps	14 cps	3 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	26 cps	103 cps	28 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2 cps	-15 cps	-16 cps	-43 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	-3 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	17 cps	-1 cps	3 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-26 cps	54 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-2 cps	4,832 cps	8,502 cps	169,964 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,121 cps	10 cps

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Sample Type QC Analysis Date 10/15/2015 12:32:23 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.9894 ppm	0.4867 ppm	0.4963 ppm	1.0063 ppm
Concentration per Run 1	1.986 ppm	0.488 ppm	0.497 ppm	1.009 ppm
Concentration per Run 2	1.991 ppm	0.487 ppm	0.497 ppm	1.004 ppm
Concentration per Run 3	1.992 ppm	0.486 ppm	0.495 ppm	1.006 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.4974 ppm	2.0261 ppm	0.9882 ppm	2.0216 ppm
Concentration per Run 1	0.501 ppm	2.026 ppm	0.986 ppm	2.023 ppm
Concentration per Run 2	0.495 ppm	2.029 ppm	0.989 ppm	2.021 ppm
Concentration per Run 3	0.497 ppm	2.023 ppm	0.990 ppm	2.021 ppm
Concentration RSD	0.6 %	0.2 %	0.2 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0497 ppm	2.9992 ppm	9.9930 ppm	10.1580 ppm
Concentration per Run 1	2.055 ppm	3.010 ppm	9.974 ppm	10.157 ppm
Concentration per Run 2	2.046 ppm	2.997 ppm	10.018 ppm	10.176 ppm
Concentration per Run 3	2.048 ppm	2.990 ppm	9.987 ppm	10.141 ppm
Concentration RSD	0.2 %	0.3 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	11.3489 ppm	1.4188 ppm	51.0720 ppm	54.6811 ppm
Concentration per Run 1	11.214 ppm	1.422 ppm	51.221 ppm	54.837 ppm
Concentration per Run 2	11.530 ppm	1.421 ppm	51.226 ppm	54.656 ppm
Concentration per Run 3	11.303 ppm	1.413 ppm	50.769 ppm	54.551 ppm
Concentration RSD	1.4 %	0.3 %	0.5 %	0.3 %
Concentration SD	0.2 ppm	0.0 ppm	0.3 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.5710 ppm	50.0203 ppm	47.3105 ppm	48.4932 ppm
Concentration per Run 1	10.588 ppm	50.167 ppm	47.496 ppm	48.407 ppm
Concentration per Run 2	10.509 ppm	50.222 ppm	47.379 ppm	48.639 ppm
Concentration per Run 3	10.615 ppm	49.672 ppm	47.056 ppm	48.433 ppm
Concentration RSD	0.5 %	0.6 %	0.5 %	0.3 %
Concentration SD	0.1 ppm	0.3 ppm	0.2 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.9708 ppm	0.2042 ppm	1.0128 ppm	2.0212 ppm
Concentration per Run 1	1.972 ppm	0.204 ppm	1.015 ppm	2.025 ppm
Concentration per Run 2	1.977 ppm	0.204 ppm	1.012 ppm	2.019 ppm
Concentration per Run 3	1.964 ppm	0.204 ppm	1.011 ppm	2.019 ppm
Concentration RSD	0.3 %	0.1 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9961 ppm	1.0165 ppm	1.0785 ppm	0.4527 ppm
Concentration per Run 1	0.996 ppm	1.026 ppm	1.075 ppm	0.453 ppm
Concentration per Run 2	0.996 ppm	1.012 ppm	1.076 ppm	0.453 ppm
Concentration per Run 3	0.997 ppm	1.012 ppm	1.084 ppm	0.453 ppm
Concentration RSD	0.1 %	0.8 %	0.5 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	2.0904 ppm	1.0075 ppm	1.9538 ppm	1.9706 ppm
Concentration per Run 1	2.088 ppm	1.011 ppm	1.955 ppm	1.976 ppm
Concentration per Run 2	2.089 ppm	1.010 ppm	1.953 ppm	1.968 ppm
Concentration per Run 3	2.093 ppm	1.001 ppm	1.953 ppm	1.968 ppm
Concentration RSD	0.1 %	0.5 %	0.0 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7553 ppm	89.3946 %	103.9812 %	97.1001 %
Concentration per Run 1	4.767 ppm	89.469 %	103.571 %	96.818 %
Concentration per Run 2	4.758 ppm	89.415 %	103.545 %	97.371 %
Concentration per Run 3	4.740 ppm	89.300 %	104.828 %	97.111 %
Concentration RSD	0.3 %	0.1 %	0.7 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	0.7 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	98.3071 %	0.0459 ppm
Concentration per Run 1	98.465 %	0.041 ppm
Concentration per Run 2	98.270 %	0.016 ppm
Concentration per Run 3	98.186 %	0.080 ppm
Concentration RSD	0.1 %	70.6 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	811 cps	3,507 cps	4,203 cps	8,570 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	357 cps	580 cps	8,756 cps	1,379 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,853 cps	15,604 cps	735 cps	5,973 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	325 cps	14,310 cps	28,462 cps	15,595 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	573 cps	28,692 cps	71,255 cps	4,885 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,037 cps	3,479 cps	5,188 cps	1,191 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,575 cps	509 cps	1,905 cps	893 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	672 cps	28,412 cps	4,700 cps	2,606 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,396 cps	4,236 cps	8,417 cps	159,680 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,403 cps	9 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0017 ppm	0.0003 ppm	0.0001 ppm	-0.0004 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.003 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	75.2 %	30.6 %	60.2 %	90.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0010 ppm	-0.0031 ppm	0.0008 ppm	-0.0093 ppm
Concentration per Run 1	0.002 ppm	-0.004 ppm	0.000 ppm	-0.006 ppm
Concentration per Run 2	0.000 ppm	-0.006 ppm	0.000 ppm	-0.012 ppm
Concentration per Run 3	0.001 ppm	0.001 ppm	0.002 ppm	-0.010 ppm
Concentration RSD	63.1 %	117.8 %	85.3 %	31.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0108 ppm	0.0081 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.047 ppm	0.008 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.025 ppm	0.011 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.054 ppm	0.006 ppm
Concentration RSD	629.8 %	151.0 %	484.2 %	30.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0108 ppm	0.0005 ppm	0.0057 ppm	0.0048 ppm
Concentration per Run 1	0.058 ppm	0.000 ppm	0.006 ppm	0.010 ppm
Concentration per Run 2	-0.006 ppm	0.001 ppm	0.003 ppm	-0.001 ppm
Concentration per Run 3	-0.084 ppm	0.000 ppm	0.008 ppm	0.004 ppm
Concentration RSD	656.5 %	37.4 %	47.5 %	115.9 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0227 ppm	0.1035 ppm	0.0193 ppm	-0.1376 ppm
Concentration per Run 1	-0.054 ppm	0.091 ppm	0.006 ppm	-0.155 ppm
Concentration per Run 2	-0.042 ppm	0.097 ppm	0.038 ppm	0.014 ppm
Concentration per Run 3	0.028 ppm	0.122 ppm	0.014 ppm	-0.272 ppm
Concentration RSD	196.6 %	16.0 %	84.8 %	104.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0052 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.006 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.005 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	12.9 %	186.1 %	1,074.3 %	186.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0002 ppm	0.0029 ppm	0.0008 ppm	0.0008 ppm
Concentration per Run 1	0.000 ppm	0.003 ppm	0.002 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.007 ppm	0.001 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	-0.001 ppm	-0.001 ppm	0.001 ppm
Concentration RSD	14.7 %	137.9 %	195.1 %	34.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0027 ppm	0.0003 ppm	0.0006 ppm	0.0008 ppm
Concentration per Run 1	-0.002 ppm	0.000 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	-0.004 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	-0.002 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	40.9 %	77.8 %	101.9 %	58.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0004 ppm	102.1514 %	105.2621 %	103.4116 %
Concentration per Run 1	0.001 ppm	102.165 %	104.726 %	103.377 %
Concentration per Run 2	0.000 ppm	102.198 %	106.183 %	103.485 %
Concentration per Run 3	0.000 ppm	102.091 %	104.877 %	103.373 %
Concentration RSD	205.9 %	0.1 %	0.8 %	0.1 %
Concentration SD	0.0 ppm	0.1 %	0.8 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	103.2221 %	0.0155 ppm
Concentration per Run 1	103.142 %	0.022 ppm
Concentration per Run 2	103.299 %	0.038 ppm
Concentration per Run 3	103.226 %	-0.013 ppm
Concentration RSD	0.1 %	168.9 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	6 cps	3 cps	4 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	0 cps	-10 cps	7 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	3 cps	11 cps	7 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	0 cps	32 cps	103 cps	27 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	-1 cps	-12 cps	-21 cps	-29 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	-3 cps	-3 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	26 cps	-1 cps	4 cps	5 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-19 cps	56 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-1 cps	4,840 cps	8,520 cps	170,059 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,223 cps	-1 cps

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Sample Type QC Analysis Date 10/15/2015 1:08:25 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0021 ppm	0.4880 ppm	0.4977 ppm	1.0108 ppm
Concentration per Run 1	2.006 ppm	0.488 ppm	0.498 ppm	1.011 ppm
Concentration per Run 2	1.998 ppm	0.489 ppm	0.497 ppm	1.012 ppm
Concentration per Run 3	2.002 ppm	0.487 ppm	0.497 ppm	1.009 ppm
Concentration RSD	0.2 %	0.2 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.4981 ppm	2.0320 ppm	0.9953 ppm	2.0193 ppm
Concentration per Run 1	0.499 ppm	2.035 ppm	0.996 ppm	2.023 ppm
Concentration per Run 2	0.497 ppm	2.038 ppm	0.996 ppm	2.025 ppm
Concentration per Run 3	0.499 ppm	2.023 ppm	0.994 ppm	2.009 ppm
Concentration RSD	0.2 %	0.4 %	0.2 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0517 ppm	3.0071 ppm	10.1113 ppm	10.0558 ppm
Concentration per Run 1	2.057 ppm	3.016 ppm	10.150 ppm	10.051 ppm
Concentration per Run 2	2.048 ppm	3.003 ppm	10.101 ppm	10.032 ppm
Concentration per Run 3	2.050 ppm	3.002 ppm	10.083 ppm	10.084 ppm
Concentration RSD	0.2 %	0.3 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	11.3648 ppm	1.4150 ppm	51.0825 ppm	54.7917 ppm
Concentration per Run 1	11.355 ppm	1.411 ppm	50.865 ppm	54.586 ppm
Concentration per Run 2	11.426 ppm	1.421 ppm	51.331 ppm	54.976 ppm
Concentration per Run 3	11.314 ppm	1.413 ppm	51.052 ppm	54.813 ppm
Concentration RSD	0.5 %	0.4 %	0.5 %	0.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.2 ppm	0.2 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.5415 ppm	49.8255 ppm	47.2017 ppm	47.9611 ppm
Concentration per Run 1	10.514 ppm	49.871 ppm	47.296 ppm	48.290 ppm
Concentration per Run 2	10.599 ppm	50.001 ppm	47.282 ppm	47.851 ppm
Concentration per Run 3	10.512 ppm	49.605 ppm	47.027 ppm	47.742 ppm
Concentration RSD	0.5 %	0.4 %	0.3 %	0.6 %
Concentration SD	0.0 ppm	0.2 ppm	0.2 ppm	0.3 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.9791 ppm	0.2041 ppm	1.0138 ppm	2.0241 ppm
Concentration per Run 1	1.984 ppm	0.204 ppm	1.016 ppm	2.022 ppm
Concentration per Run 2	1.978 ppm	0.205 ppm	1.012 ppm	2.022 ppm
Concentration per Run 3	1.975 ppm	0.204 ppm	1.013 ppm	2.029 ppm
Concentration RSD	0.2 %	0.3 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.0019 ppm	1.0177 ppm	1.0823 ppm	0.4508 ppm
Concentration per Run 1	1.003 ppm	1.018 ppm	1.080 ppm	0.450 ppm
Concentration per Run 2	1.001 ppm	1.021 ppm	1.083 ppm	0.452 ppm
Concentration per Run 3	1.001 ppm	1.015 ppm	1.083 ppm	0.451 ppm
Concentration RSD	0.1 %	0.3 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	2.0746 ppm	1.0142 ppm	1.9665 ppm	1.9742 ppm
Concentration per Run 1	2.081 ppm	1.016 ppm	1.967 ppm	1.977 ppm
Concentration per Run 2	2.062 ppm	1.015 ppm	1.970 ppm	1.975 ppm
Concentration per Run 3	2.081 ppm	1.012 ppm	1.962 ppm	1.970 ppm
Concentration RSD	0.5 %	0.2 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7887 ppm	89.3612 %	106.0066 %	96.7919 %
Concentration per Run 1	4.794 ppm	89.145 %	106.486 %	96.704 %
Concentration per Run 2	4.781 ppm	89.519 %	105.116 %	96.862 %
Concentration per Run 3	4.791 ppm	89.419 %	106.418 %	96.810 %
Concentration RSD	0.1 %	0.2 %	0.7 %	0.1 %
Concentration SD	0.0 ppm	0.2 %	0.8 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	98.2040 %	0.0916 ppm
Concentration per Run 1	98.034 %	0.077 ppm
Concentration per Run 2	98.158 %	0.082 ppm
Concentration per Run 3	98.420 %	0.116 ppm
Concentration RSD	0.2 %	23.5 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	815 cps	3,512 cps	4,211 cps	8,581 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	358 cps	581 cps	8,791 cps	1,404 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,855 cps	15,629 cps	758 cps	6,028 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	331 cps	14,550 cps	29,023 cps	15,931 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	583 cps	29,137 cps	72,477 cps	4,925 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,040 cps	3,546 cps	5,191 cps	1,192 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,684 cps	519 cps	1,949 cps	888 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	680 cps	29,161 cps	4,715 cps	2,608 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,404 cps	4,234 cps	8,581 cps	159,173 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,386 cps	23 cps

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Sample Type QC Analysis Date 10/15/2015 1:11:09 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0015 ppm	0.0002 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 1	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	29.1 %	28.6 %	368.0 %	122.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0005 ppm	-0.0048 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	0.000 ppm	-0.006 ppm
Concentration per Run 3	0.000 ppm	-0.001 ppm	0.001 ppm	-0.006 ppm
Concentration RSD	411.0 %	550.3 %	48.5 %	43.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0024 ppm	0.0108 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.027 ppm	0.009 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.017 ppm	0.012 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.003 ppm	0.012 ppm
Concentration RSD	166.3 %	320.9 %	910.7 %	18.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0451 ppm	-0.0001 ppm	0.0176 ppm	0.0168 ppm
Concentration per Run 1	0.064 ppm	-0.001 ppm	0.013 ppm	0.026 ppm
Concentration per Run 2	0.005 ppm	0.001 ppm	0.020 ppm	0.002 ppm
Concentration per Run 3	0.065 ppm	-0.001 ppm	0.019 ppm	0.023 ppm
Concentration RSD	76.3 %	1,072.7 %	20.9 %	76.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0125 ppm	0.1514 ppm	0.0279 ppm	-0.2644 ppm
Concentration per Run 1	0.005 ppm	0.174 ppm	0.019 ppm	-0.330 ppm
Concentration per Run 2	0.008 ppm	0.149 ppm	0.030 ppm	-0.006 ppm
Concentration per Run 3	0.024 ppm	0.131 ppm	0.034 ppm	-0.457 ppm
Concentration RSD	83.4 %	14.2 %	27.8 %	87.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0058 ppm	-0.0001 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 1	0.004 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.007 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration per Run 3	0.007 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	28.9 %	82.9 %	415.6 %	9.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0003 ppm	0.0024 ppm	0.0003 ppm	0.0007 ppm
Concentration per Run 1	0.000 ppm	0.002 ppm	0.002 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.002 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.003 ppm	-0.001 ppm	0.001 ppm
Concentration RSD	44.2 %	18.1 %	447.8 %	5.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0012 ppm	0.0003 ppm	-0.0002 ppm	0.0007 ppm
Concentration per Run 1	0.004 ppm	0.000 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 2	-0.003 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	-0.005 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	388.1 %	4.6 %	457.0 %	55.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0001 ppm	102.4954 %	106.1687 %	103.4273 %
Concentration per Run 1	0.000 ppm	102.138 %	106.679 %	103.657 %
Concentration per Run 2	0.000 ppm	102.047 %	105.442 %	103.561 %
Concentration per Run 3	0.001 ppm	103.302 %	106.385 %	103.064 %
Concentration RSD	211.4 %	0.7 %	0.6 %	0.3 %
Concentration SD	0.0 ppm	0.7 %	0.6 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	103.6087 %	0.0351 ppm
Concentration per Run 1	103.194 %	0.097 ppm
Concentration per Run 2	103.212 %	0.024 ppm
Concentration per Run 3	104.420 %	-0.016 ppm
Concentration RSD	0.7 %	164.1 %
Concentration SD	0.7 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	5 cps	2 cps	4 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-13 cps	10 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-4 cps	3 cps	12 cps	9 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2 cps	26 cps	111 cps	31 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	16 cps	-8 cps	-43 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	5 cps	-3 cps	-2 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	28 cps	-1 cps	3 cps	5 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-19 cps	54 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-2 cps	4,857 cps	8,594 cps	170,085 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,288 cps	5 cps

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Sample Type QC Analysis Date 10/15/2015 1:41:45 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.9999 ppm	0.4865 ppm	0.4969 ppm	1.0053 ppm
Concentration per Run 1	2.002 ppm	0.487 ppm	0.498 ppm	1.005 ppm
Concentration per Run 2	1.999 ppm	0.487 ppm	0.497 ppm	1.005 ppm
Concentration per Run 3	1.999 ppm	0.486 ppm	0.496 ppm	1.006 ppm
Concentration RSD	0.1 %	0.1 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.4989 ppm	2.0369 ppm	0.9938 ppm	2.0077 ppm
Concentration per Run 1	0.499 ppm	2.046 ppm	0.994 ppm	2.013 ppm
Concentration per Run 2	0.499 ppm	2.027 ppm	0.993 ppm	2.005 ppm
Concentration per Run 3	0.498 ppm	2.038 ppm	0.994 ppm	2.005 ppm
Concentration RSD	0.1 %	0.5 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0563 ppm	3.0082 ppm	9.9220 ppm	9.7687 ppm
Concentration per Run 1	2.057 ppm	3.009 ppm	9.862 ppm	9.770 ppm
Concentration per Run 2	2.054 ppm	3.004 ppm	9.953 ppm	9.770 ppm
Concentration per Run 3	2.058 ppm	3.012 ppm	9.951 ppm	9.766 ppm
Concentration RSD	0.1 %	0.1 %	0.5 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	11.1667 ppm	1.4214 ppm	50.7627 ppm	55.0879 ppm
Concentration per Run 1	11.150 ppm	1.418 ppm	50.655 ppm	54.992 ppm
Concentration per Run 2	11.099 ppm	1.430 ppm	50.960 ppm	55.333 ppm
Concentration per Run 3	11.251 ppm	1.416 ppm	50.674 ppm	54.938 ppm
Concentration RSD	0.7 %	0.5 %	0.3 %	0.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.2 ppm	0.2 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.3045 ppm	50.1301 ppm	47.3308 ppm	48.0978 ppm
Concentration per Run 1	10.347 ppm	50.127 ppm	47.248 ppm	48.134 ppm
Concentration per Run 2	10.223 ppm	50.331 ppm	47.604 ppm	48.124 ppm
Concentration per Run 3	10.344 ppm	49.932 ppm	47.140 ppm	48.035 ppm
Concentration RSD	0.7 %	0.4 %	0.5 %	0.1 %
Concentration SD	0.1 ppm	0.2 ppm	0.2 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.9770 ppm	0.2026 ppm	1.0164 ppm	2.0334 ppm
Concentration per Run 1	1.984 ppm	0.203 ppm	1.015 ppm	2.032 ppm
Concentration per Run 2	1.977 ppm	0.203 ppm	1.016 ppm	2.036 ppm
Concentration per Run 3	1.970 ppm	0.202 ppm	1.018 ppm	2.033 ppm
Concentration RSD	0.4 %	0.1 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.0017 ppm	1.0004 ppm	1.0782 ppm	0.4460 ppm
Concentration per Run 1	1.003 ppm	0.990 ppm	1.082 ppm	0.447 ppm
Concentration per Run 2	1.003 ppm	1.002 ppm	1.078 ppm	0.446 ppm
Concentration per Run 3	0.998 ppm	1.009 ppm	1.075 ppm	0.445 ppm
Concentration RSD	0.3 %	1.0 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.9934 ppm	1.0207 ppm	1.9624 ppm	1.9732 ppm
Concentration per Run 1	1.981 ppm	1.018 ppm	1.961 ppm	1.979 ppm
Concentration per Run 2	2.009 ppm	1.026 ppm	1.964 ppm	1.974 ppm
Concentration per Run 3	1.991 ppm	1.017 ppm	1.961 ppm	1.967 ppm
Concentration RSD	0.7 %	0.5 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7772 ppm	89.4648 %	109.1406 %	97.2312 %
Concentration per Run 1	4.786 ppm	89.511 %	109.550 %	97.201 %
Concentration per Run 2	4.776 ppm	89.219 %	108.484 %	97.389 %
Concentration per Run 3	4.770 ppm	89.664 %	109.387 %	97.104 %
Concentration RSD	0.2 %	0.3 %	0.5 %	0.1 %
Concentration SD	0.0 ppm	0.2 %	0.6 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	98.6116 %	0.0580 ppm
Concentration per Run 1	98.493 %	0.074 ppm
Concentration per Run 2	98.311 %	0.053 ppm
Concentration per Run 3	99.032 %	0.047 ppm
Concentration RSD	0.4 %	24.4 %
Concentration SD	0.4 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	817 cps	3,516 cps	4,222 cps	8,573 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	359 cps	585 cps	8,818 cps	1,437 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,868 cps	15,699 cps	766 cps	6,029 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	335 cps	15,048 cps	29,694 cps	16,491 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	586 cps	30,183 cps	74,823 cps	5,085 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,043 cps	3,623 cps	5,210 cps	1,199 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,858 cps	525 cps	1,999 cps	882 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	673 cps	30,212 cps	4,726 cps	2,617 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,407 cps	4,239 cps	8,834 cps	159,895 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,454 cps	13 cps

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Sample Type QC Analysis Date 10/15/2015 1:44:30 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0016 ppm	0.0002 ppm	0.0002 ppm	-0.0004 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.005 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	171.2 %	72.6 %	47.1 %	114.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0003 ppm	-0.0003 ppm	0.0005 ppm	0.0013 ppm
Concentration per Run 1	0.002 ppm	0.001 ppm	0.000 ppm	-0.006 ppm
Concentration per Run 2	-0.001 ppm	-0.002 ppm	0.000 ppm	0.004 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.001 ppm	0.007 ppm
Concentration RSD	476.0 %	393.9 %	66.4 %	490.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	-0.0001 ppm	0.0009 ppm	0.0588 ppm	0.0066 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.065 ppm	0.005 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	0.073 ppm	0.004 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	0.038 ppm	0.011 ppm
Concentration RSD	682.9 %	32.3 %	31.1 %	60.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0495 ppm	0.0006 ppm	0.0041 ppm	0.0012 ppm
Concentration per Run 1	0.030 ppm	0.001 ppm	0.001 ppm	-0.002 ppm
Concentration per Run 2	0.056 ppm	0.001 ppm	0.001 ppm	-0.003 ppm
Concentration per Run 3	0.063 ppm	0.000 ppm	0.010 ppm	0.009 ppm
Concentration RSD	34.8 %	99.0 %	132.6 %	530.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0293 ppm	0.2247 ppm	0.0132 ppm	-0.2461 ppm
Concentration per Run 1	0.023 ppm	0.207 ppm	0.014 ppm	-0.183 ppm
Concentration per Run 2	0.032 ppm	0.237 ppm	0.012 ppm	-0.352 ppm
Concentration per Run 3	0.033 ppm	0.230 ppm	0.014 ppm	-0.203 ppm
Concentration RSD	18.0 %	7.1 %	5.8 %	37.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0056 ppm	-0.0001 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.005 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 3	0.007 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	19.7 %	44.5 %	150.0 %	260.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0005 ppm	0.0046 ppm	-0.0007 ppm	0.0008 ppm
Concentration per Run 1	0.000 ppm	0.003 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.004 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 3	0.001 ppm	0.007 ppm	-0.001 ppm	0.001 ppm
Concentration RSD	37.8 %	50.5 %	133.6 %	33.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0080 ppm	0.0003 ppm	-0.0011 ppm	0.0010 ppm
Concentration per Run 1	-0.004 ppm	0.000 ppm	-0.003 ppm	0.001 ppm
Concentration per Run 2	-0.011 ppm	0.000 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 3	-0.008 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	43.5 %	39.5 %	134.4 %	28.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0026 ppm	102.5850 %	109.6342 %	104.1712 %
Concentration per Run 1	0.000 ppm	103.099 %	109.969 %	103.741 %
Concentration per Run 2	0.002 ppm	102.523 %	109.188 %	104.198 %
Concentration per Run 3	0.005 ppm	102.132 %	109.746 %	104.574 %
Concentration RSD	101.5 %	0.5 %	0.4 %	0.4 %
Concentration SD	0.0 ppm	0.5 %	0.4 %	0.4 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	103.7360 %	0.0117 ppm
Concentration per Run 1	104.388 %	0.002 ppm
Concentration per Run 2	103.611 %	0.040 ppm
Concentration per Run 3	103.210 %	-0.007 ppm
Concentration RSD	0.6 %	213.5 %
Concentration SD	0.6 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	5 cps	4 cps	4 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	0 cps	-13 cps	15 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	8 cps	17 cps	6 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2 cps	35 cps	107 cps	27 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2 cps	61 cps	-32 cps	-42 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	5 cps	-4 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	39 cps	0 cps	1 cps	5 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	1 cps	-19 cps	52 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-1 cps	4,861 cps	8,874 cps	171,308 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,309 cps	-2 cps

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Sample Type QC Analysis Date 10/15/2015 2:05:42 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.9916 ppm	0.4854 ppm	0.4970 ppm	1.0104 ppm
Concentration per Run 1	1.985 ppm	0.485 ppm	0.497 ppm	1.009 ppm
Concentration per Run 2	1.993 ppm	0.487 ppm	0.497 ppm	1.014 ppm
Concentration per Run 3	1.996 ppm	0.485 ppm	0.497 ppm	1.008 ppm
Concentration RSD	0.3 %	0.3 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.4985 ppm	2.0291 ppm	0.9888 ppm	2.0015 ppm
Concentration per Run 1	0.498 ppm	2.031 ppm	0.990 ppm	1.998 ppm
Concentration per Run 2	0.500 ppm	2.038 ppm	0.986 ppm	2.000 ppm
Concentration per Run 3	0.497 ppm	2.019 ppm	0.991 ppm	2.006 ppm
Concentration RSD	0.3 %	0.5 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0501 ppm	3.0092 ppm	9.8935 ppm	9.7256 ppm
Concentration per Run 1	2.048 ppm	3.003 ppm	9.859 ppm	9.741 ppm
Concentration per Run 2	2.052 ppm	3.021 ppm	9.878 ppm	9.726 ppm
Concentration per Run 3	2.050 ppm	3.004 ppm	9.944 ppm	9.710 ppm
Concentration RSD	0.1 %	0.3 %	0.5 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	11.0058 ppm	1.4111 ppm	50.7185 ppm	54.9788 ppm
Concentration per Run 1	11.004 ppm	1.421 ppm	50.986 ppm	55.312 ppm
Concentration per Run 2	10.929 ppm	1.404 ppm	50.539 ppm	54.801 ppm
Concentration per Run 3	11.084 ppm	1.408 ppm	50.630 ppm	54.823 ppm
Concentration RSD	0.7 %	0.6 %	0.5 %	0.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.2 ppm	0.3 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.3079 ppm	49.5707 ppm	47.3472 ppm	47.7365 ppm
Concentration per Run 1	10.317 ppm	49.748 ppm	47.507 ppm	47.569 ppm
Concentration per Run 2	10.272 ppm	49.498 ppm	47.204 ppm	47.727 ppm
Concentration per Run 3	10.335 ppm	49.466 ppm	47.330 ppm	47.913 ppm
Concentration RSD	0.3 %	0.3 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	0.2 ppm	0.2 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.9678 ppm	0.2014 ppm	1.0117 ppm	2.0216 ppm
Concentration per Run 1	1.969 ppm	0.202 ppm	1.010 ppm	2.019 ppm
Concentration per Run 2	1.967 ppm	0.201 ppm	1.013 ppm	2.025 ppm
Concentration per Run 3	1.967 ppm	0.201 ppm	1.012 ppm	2.021 ppm
Concentration RSD	0.1 %	0.5 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9982 ppm	0.9958 ppm	1.0721 ppm	0.4491 ppm
Concentration per Run 1	0.997 ppm	0.999 ppm	1.073 ppm	0.450 ppm
Concentration per Run 2	0.999 ppm	0.998 ppm	1.071 ppm	0.448 ppm
Concentration per Run 3	0.998 ppm	0.991 ppm	1.073 ppm	0.449 ppm
Concentration RSD	0.1 %	0.4 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.9857 ppm	1.0173 ppm	1.9574 ppm	1.9740 ppm
Concentration per Run 1	1.981 ppm	1.022 ppm	1.949 ppm	1.973 ppm
Concentration per Run 2	1.988 ppm	1.012 ppm	1.964 ppm	1.979 ppm
Concentration per Run 3	1.988 ppm	1.018 ppm	1.959 ppm	1.970 ppm
Concentration RSD	0.2 %	0.5 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7599 ppm	89.8877 %	109.0924 %	97.1033 %
Concentration per Run 1	4.759 ppm	89.934 %	108.838 %	97.077 %
Concentration per Run 2	4.765 ppm	89.857 %	108.941 %	97.206 %
Concentration per Run 3	4.756 ppm	89.871 %	109.498 %	97.027 %
Concentration RSD	0.1 %	0.0 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	0.0 %	0.4 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	98.8429 %	0.0746 ppm
Concentration per Run 1	98.852 %	0.048 ppm
Concentration per Run 2	98.758 %	0.117 ppm
Concentration per Run 3	98.919 %	0.058 ppm
Concentration RSD	0.1 %	50.0 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	816 cps	3,516 cps	4,232 cps	8,605 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	360 cps	584 cps	8,761 cps	1,432 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,875 cps	15,742 cps	763 cps	6,000 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	330 cps	14,933 cps	29,656 cps	16,451 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	586 cps	29,832 cps	74,818 cps	5,044 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,041 cps	3,600 cps	5,211 cps	1,198 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,661 cps	523 cps	1,987 cps	890 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	670 cps	30,100 cps	4,708 cps	2,624 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,405 cps	4,259 cps	8,830 cps	159,685 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,493 cps	18 cps

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Sample Type QC Analysis Date 10/15/2015 2:08:30 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.0027 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.003 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.004 ppm	0.000 ppm	0.000 ppm
Concentration RSD	45.7 %	35.6 %	40.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0004 ppm	0.0014 ppm	0.0014 ppm
Concentration per Run 1	-0.001 ppm	0.002 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	0.002 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	0.001 ppm
Concentration RSD	136.2 %	56.5 %	73.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0005 ppm	-0.0031 ppm	0.0003 ppm
Concentration per Run 1	0.001 ppm	-0.004 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.007 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.002 ppm	0.000 ppm
Concentration RSD	30.1 %	139.7 %	40.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0002 ppm	0.0307 ppm	0.0033 ppm
Concentration per Run 1	0.000 ppm	0.072 ppm	0.002 ppm
Concentration per Run 2	0.000 ppm	0.007 ppm	0.007 ppm
Concentration per Run 3	0.000 ppm	0.014 ppm	0.001 ppm
Concentration RSD	29.1 %	116.9 %	87.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.0097 ppm	-0.0001 ppm	-0.0049 ppm
Concentration per Run 1	-0.042 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.025 ppm	0.000 ppm	-0.010 ppm
Concentration per Run 3	0.046 ppm	0.000 ppm	-0.004 ppm
Concentration RSD	474.3 %	241.8 %	99.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.0017 ppm	0.0154 ppm	0.1643 ppm
Concentration per Run 1	0.000 ppm	0.029 ppm	0.164 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	0.004 ppm	0.033 ppm	0.171 ppm
Concentration per Run 3	0.002 ppm	-0.016 ppm	0.157 ppm
Concentration RSD	132.3 %	175.6 %	4.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	0.0138 ppm	-0.3416 ppm	0.0068 ppm
Concentration per Run 1	0.010 ppm	-0.319 ppm	0.005 ppm
Concentration per Run 2	0.009 ppm	-0.392 ppm	0.007 ppm
Concentration per Run 3	0.022 ppm	-0.314 ppm	0.008 ppm
Concentration RSD	51.2 %	12.7 %	24.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0001 ppm	-0.0001 ppm	-0.0007 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	115.5 %	53.6 %	162.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.0000 ppm	0.0036 ppm	0.0002 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.002 ppm
Concentration per Run 2	0.000 ppm	0.005 ppm	-0.001 ppm
Concentration per Run 3	0.000 ppm	0.005 ppm	-0.001 ppm
Concentration RSD	1,193,519.5 %	60.2 %	603.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0006 ppm	-0.0034 ppm	0.0000 ppm
Concentration per Run 1	0.001 ppm	0.002 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	-0.003 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	-0.009 ppm	0.000 ppm
Concentration RSD	33.0 %	149.7 %	481.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	0.0000 ppm	0.0009 ppm	0.0004 ppm
Concentration per Run 1	0.001 ppm	0.001 ppm	-0.002 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	0.003 ppm
Concentration per Run 3	-0.001 ppm	0.001 ppm	0.000 ppm
Concentration RSD	4,561.8 %	5.1 %	656.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	102.7246 %	109.7091 %	103.7264 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	102.573 %	108.770 %	103.558 %
Concentration per Run 2	102.837 %	109.541 %	103.888 %
Concentration per Run 3	102.764 %	110.816 %	103.733 %
Concentration RSD	0.1 %	0.9 %	0.2 %
Concentration SD	0.1 %	1.0 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	103.7553 %	0.0460 ppm
Concentration per Run 1	103.662 %	0.055 ppm
Concentration per Run 2	103.792 %	0.046 ppm
Concentration per Run 3	103.812 %	0.037 ppm
Concentration RSD	0.1 %	20.5 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	4 cps	4 cps	4 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	1 cps	-13 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	4 cps	15 cps	4 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	28 cps	101 cps	27 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	24 cps	-31 cps	-53 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	5 cps	-4 cps	-3 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	17 cps	0 cps	3 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-27 cps	55 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-1 cps	4,868 cps	8,880 cps	170,577 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,312 cps	9 cps

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CCV 15I21330

Sample Type QC Analysis Date 10/15/2015 2:49:28 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.9884 ppm	0.4859 ppm	0.4963 ppm	1.0047 ppm
Concentration per Run 1	1.979 ppm	0.486 ppm	0.497 ppm	1.004 ppm
Concentration per Run 2	1.993 ppm	0.487 ppm	0.496 ppm	1.007 ppm
Concentration per Run 3	1.992 ppm	0.484 ppm	0.496 ppm	1.003 ppm
Concentration RSD	0.4 %	0.3 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.4984 ppm	2.0270 ppm	0.9926 ppm	1.9820 ppm
Concentration per Run 1	0.498 ppm	2.025 ppm	0.992 ppm	1.977 ppm
Concentration per Run 2	0.498 ppm	2.025 ppm	0.992 ppm	1.972 ppm
Concentration per Run 3	0.499 ppm	2.031 ppm	0.994 ppm	1.997 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0494 ppm	3.0084 ppm	9.8483 ppm	9.5994 ppm
Concentration per Run 1	2.046 ppm	3.008 ppm	9.760 ppm	9.574 ppm
Concentration per Run 2	2.049 ppm	3.010 ppm	9.889 ppm	9.598 ppm
Concentration per Run 3	2.053 ppm	3.008 ppm	9.896 ppm	9.626 ppm
Concentration RSD	0.2 %	0.0 %	0.8 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.8746 ppm	1.4146 ppm	50.3588 ppm	54.7301 ppm
Concentration per Run 1	10.920 ppm	1.412 ppm	50.178 ppm	54.583 ppm
Concentration per Run 2	10.762 ppm	1.410 ppm	50.409 ppm	54.759 ppm
Concentration per Run 3	10.941 ppm	1.422 ppm	50.489 ppm	54.848 ppm
Concentration RSD	0.9 %	0.5 %	0.3 %	0.2 %
Concentration SD	0.1 ppm	0.0 ppm	0.2 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.2170 ppm	49.7611 ppm	47.0041 ppm	47.8141 ppm
Concentration per Run 1	10.178 ppm	49.779 ppm	47.010 ppm	47.836 ppm
Concentration per Run 2	10.211 ppm	49.717 ppm	46.959 ppm	47.740 ppm
Concentration per Run 3	10.263 ppm	49.787 ppm	47.043 ppm	47.866 ppm
Concentration RSD	0.4 %	0.1 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.9666 ppm	0.2001 ppm	1.0117 ppm	2.0232 ppm
Concentration per Run 1	1.973 ppm	0.200 ppm	1.009 ppm	2.019 ppm
Concentration per Run 2	1.969 ppm	0.200 ppm	1.013 ppm	2.021 ppm
Concentration per Run 3	1.958 ppm	0.200 ppm	1.013 ppm	2.030 ppm
Concentration RSD	0.4 %	0.2 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9990 ppm	0.9902 ppm	1.0655 ppm	0.4503 ppm
Concentration per Run 1	0.997 ppm	0.992 ppm	1.061 ppm	0.451 ppm
Concentration per Run 2	0.999 ppm	0.989 ppm	1.067 ppm	0.450 ppm
Concentration per Run 3	1.001 ppm	0.990 ppm	1.069 ppm	0.450 ppm
Concentration RSD	0.2 %	0.2 %	0.4 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.9649 ppm	1.0143 ppm	1.9732 ppm	1.9693 ppm
Concentration per Run 1	1.976 ppm	1.014 ppm	1.966 ppm	1.972 ppm
Concentration per Run 2	1.971 ppm	1.013 ppm	1.976 ppm	1.970 ppm
Concentration per Run 3	1.948 ppm	1.016 ppm	1.977 ppm	1.966 ppm
Concentration RSD	0.8 %	0.2 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7738 ppm	89.3455 %	108.7297 %	96.7049 %
Concentration per Run 1	4.785 ppm	89.377 %	108.778 %	96.615 %
Concentration per Run 2	4.770 ppm	89.417 %	109.221 %	96.485 %
Concentration per Run 3	4.766 ppm	89.242 %	108.190 %	97.014 %
Concentration RSD	0.2 %	0.1 %	0.5 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	0.5 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	98.3115 %	0.0833 ppm
Concentration per Run 1	98.170 %	0.092 ppm
Concentration per Run 2	98.412 %	0.065 ppm
Concentration per Run 3	98.353 %	0.093 ppm
Concentration RSD	0.1 %	18.8 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	810 cps	3,501 cps	4,204 cps	8,521 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	358 cps	581 cps	8,759 cps	1,414 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,850 cps	15,653 cps	758 cps	5,903 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	325 cps	14,919 cps	29,348 cps	16,322 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	579 cps	29,847 cps	74,028 cps	5,036 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,035 cps	3,566 cps	5,180 cps	1,192 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,527 cps	518 cps	1,968 cps	888 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	661 cps	29,911 cps	4,727 cps	2,604 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,402 cps	4,234 cps	8,801 cps	159,030 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,404 cps	20 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0018 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 1	0.003 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.004 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	129.8 %	1,678.8 %	405.6 %	25.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0012 ppm	0.0015 ppm	0.0003 ppm	0.0009 ppm
Concentration per Run 1	0.001 ppm	0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.002 ppm	0.001 ppm	0.006 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.000 ppm	-0.003 ppm
Concentration RSD	25.6 %	83.5 %	256.2 %	561.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0123 ppm	0.0013 ppm	0.0295 ppm	0.0037 ppm
Concentration per Run 1	0.012 ppm	0.001 ppm	0.043 ppm	0.006 ppm
Concentration per Run 2	0.012 ppm	0.001 ppm	0.035 ppm	0.005 ppm
Concentration per Run 3	0.013 ppm	0.002 ppm	0.011 ppm	0.000 ppm
Concentration RSD	2.2 %	18.6 %	56.8 %	90.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0536 ppm	-0.0011 ppm	0.0079 ppm	0.0179 ppm
Concentration per Run 1	0.007 ppm	0.000 ppm	0.012 ppm	0.023 ppm
Concentration per Run 2	0.032 ppm	-0.004 ppm	0.007 ppm	0.013 ppm
Concentration per Run 3	0.122 ppm	0.000 ppm	0.004 ppm	0.018 ppm
Concentration RSD	113.0 %	199.3 %	51.3 %	26.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0209 ppm	0.1710 ppm	0.0198 ppm	-0.4431 ppm
Concentration per Run 1	-0.050 ppm	0.200 ppm	0.012 ppm	-0.471 ppm
Concentration per Run 2	-0.006 ppm	0.142 ppm	0.032 ppm	-0.396 ppm
Concentration per Run 3	-0.007 ppm	0.171 ppm	0.016 ppm	-0.462 ppm
Concentration RSD	120.9 %	16.8 %	53.6 %	9.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0069 ppm	0.0000 ppm	0.0002 ppm	0.0008 ppm
Concentration per Run 1	0.004 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.008 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.008 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	31.2 %	173.3 %	86.1 %	42.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0001 ppm	0.0076 ppm	0.0013 ppm	0.0005 ppm
Concentration per Run 1	0.000 ppm	0.007 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.005 ppm	0.002 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.011 ppm	0.002 ppm	0.000 ppm
Concentration RSD	62.5 %	39.3 %	90.8 %	10.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0006 ppm	0.0004 ppm	0.0015 ppm	0.0006 ppm
Concentration per Run 1	-0.007 ppm	0.000 ppm	0.001 ppm	0.001 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.004 ppm	0.000 ppm	0.003 ppm	0.000 ppm
Concentration RSD	1,031.0 %	16.1 %	104.3 %	56.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	-0.0012 ppm	101.9684 %	108.6210 %	103.0008 %
Concentration per Run 1	-0.005 ppm	101.949 %	106.925 %	102.622 %
Concentration per Run 2	0.002 ppm	101.906 %	109.743 %	103.267 %
Concentration per Run 3	0.000 ppm	102.051 %	109.194 %	103.114 %
Concentration RSD	321.3 %	0.1 %	1.4 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	1.5 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	103.2220 %	0.0635 ppm
Concentration per Run 1	103.052 %	0.037 ppm
Concentration per Run 2	103.324 %	0.050 ppm
Concentration per Run 3	103.290 %	0.104 ppm
Concentration RSD	0.1 %	55.9 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	3 cps	2 cps	3 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	1 cps	-15 cps	14 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	23 cps	10 cps	14 cps	5 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2 cps	17 cps	108 cps	32 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	-1 cps	28 cps	-21 cps	-63 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	5 cps	-1 cps	-2 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	23 cps	2 cps	5 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	4 cps	-17 cps	58 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-2 cps	4,832 cps	8,792 cps	169,383 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,223 cps	14 cps

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Sample Type QC Analysis Date 10/15/2015 3:26:23 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.9939 ppm	0.4848 ppm	0.4975 ppm	1.0220 ppm
Concentration per Run 1	1.998 ppm	0.486 ppm	0.498 ppm	1.019 ppm
Concentration per Run 2	1.990 ppm	0.483 ppm	0.497 ppm	1.026 ppm
Concentration per Run 3	1.994 ppm	0.485 ppm	0.497 ppm	1.021 ppm
Concentration RSD	0.2 %	0.3 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5032 ppm	2.0357 ppm	0.9994 ppm	1.9974 ppm
Concentration per Run 1	0.502 ppm	2.043 ppm	0.999 ppm	1.996 ppm
Concentration per Run 2	0.501 ppm	2.033 ppm	1.006 ppm	1.999 ppm
Concentration per Run 3	0.506 ppm	2.031 ppm	0.993 ppm	1.997 ppm
Concentration RSD	0.5 %	0.3 %	0.7 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0627 ppm	3.0354 ppm	9.8733 ppm	9.6412 ppm
Concentration per Run 1	2.070 ppm	3.039 ppm	9.813 ppm	9.645 ppm
Concentration per Run 2	2.060 ppm	3.034 ppm	9.812 ppm	9.643 ppm
Concentration per Run 3	2.057 ppm	3.033 ppm	9.994 ppm	9.635 ppm
Concentration RSD	0.3 %	0.1 %	1.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	11.0144 ppm	1.4225 ppm	51.3998 ppm	55.8530 ppm
Concentration per Run 1	11.117 ppm	1.431 ppm	51.586 ppm	56.086 ppm
Concentration per Run 2	10.877 ppm	1.420 ppm	51.249 ppm	55.787 ppm
Concentration per Run 3	11.050 ppm	1.416 ppm	51.364 ppm	55.685 ppm
Concentration RSD	1.1 %	0.5 %	0.3 %	0.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.2 ppm	0.2 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.3397 ppm	50.5468 ppm	47.6623 ppm	48.0618 ppm
Concentration per Run 1	10.341 ppm	50.834 ppm	47.941 ppm	48.253 ppm
Concentration per Run 2	10.295 ppm	50.494 ppm	47.549 ppm	48.158 ppm
Concentration per Run 3	10.383 ppm	50.312 ppm	47.496 ppm	47.775 ppm
Concentration RSD	0.4 %	0.5 %	0.5 %	0.5 %
Concentration SD	0.0 ppm	0.3 ppm	0.2 ppm	0.3 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.9661 ppm	0.2010 ppm	1.0168 ppm	2.0456 ppm
Concentration per Run 1	1.978 ppm	0.202 ppm	1.020 ppm	2.051 ppm
Concentration per Run 2	1.961 ppm	0.201 ppm	1.014 ppm	2.042 ppm
Concentration per Run 3	1.959 ppm	0.200 ppm	1.017 ppm	2.043 ppm
Concentration RSD	0.5 %	0.4 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.0133 ppm	0.9939 ppm	1.0801 ppm	0.4409 ppm
Concentration per Run 1	1.013 ppm	0.988 ppm	1.085 ppm	0.442 ppm
Concentration per Run 2	1.017 ppm	1.000 ppm	1.078 ppm	0.439 ppm
Concentration per Run 3	1.010 ppm	0.995 ppm	1.077 ppm	0.442 ppm
Concentration RSD	0.3 %	0.6 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.9746 ppm	1.0289 ppm	1.9869 ppm	1.9864 ppm
Concentration per Run 1	1.971 ppm	1.036 ppm	1.986 ppm	1.988 ppm
Concentration per Run 2	1.990 ppm	1.028 ppm	1.998 ppm	1.986 ppm
Concentration per Run 3	1.963 ppm	1.023 ppm	1.976 ppm	1.985 ppm
Concentration RSD	0.7 %	0.7 %	0.5 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7929 ppm	88.9962 %	106.5281 %	95.3941 %
Concentration per Run 1	4.799 ppm	88.638 %	106.485 %	95.457 %
Concentration per Run 2	4.792 ppm	89.228 %	106.776 %	95.194 %
Concentration per Run 3	4.788 ppm	89.122 %	106.323 %	95.532 %
Concentration RSD	0.1 %	0.4 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.3 %	0.2 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	98.2054 %	0.0735 ppm
Concentration per Run 1	97.895 %	0.095 ppm
Concentration per Run 2	98.319 %	0.039 ppm
Concentration per Run 3	98.402 %	0.087 ppm
Concentration RSD	0.3 %	41.5 %
Concentration SD	0.3 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	812 cps	3,489 cps	4,210 cps	8,551 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	360 cps	582 cps	8,699 cps	1,396 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,860 cps	15,776 cps	744 cps	5,808 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	323 cps	14,699 cps	29,346 cps	16,319 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	574 cps	29,706 cps	73,546 cps	4,960 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,033 cps	3,509 cps	5,185 cps	1,200 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,552 cps	510 cps	1,955 cps	868 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	650 cps	29,728 cps	4,694 cps	2,624 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,406 cps	4,217 cps	8,623 cps	156,874 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,386 cps	17 cps

Comprehensive sample report

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Sample Type QC Analysis Date 10/15/2015 3:29:11 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0029 ppm	0.0001 ppm	0.0001 ppm	-0.0006 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.004 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 3	0.003 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	44.2 %	174.0 %	253.7 %	7.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0015 ppm	0.0010 ppm	0.0002 ppm	-0.0011 ppm
Concentration per Run 1	0.002 ppm	0.002 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	0.001 ppm	-0.001 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	-0.001 ppm	-0.001 ppm
Concentration RSD	76.4 %	113.8 %	456.9 %	23.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0002 ppm	-0.0001 ppm	0.0154 ppm	0.0010 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.046 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.055 ppm	-0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.037 ppm	0.003 ppm
Concentration RSD	99.9 %	74.3 %	348.9 %	194.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0232 ppm	0.0007 ppm	-0.0073 ppm	-0.0084 ppm
Concentration per Run 1	0.061 ppm	0.001 ppm	-0.006 ppm	-0.011 ppm
Concentration per Run 2	-0.075 ppm	0.000 ppm	-0.009 ppm	-0.009 ppm
Concentration per Run 3	0.084 ppm	0.001 ppm	-0.007 ppm	-0.006 ppm
Concentration RSD	371.4 %	66.1 %	20.1 %	30.3 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0087 ppm	0.2288 ppm	0.0199 ppm	-0.3861 ppm
Concentration per Run 1	-0.051 ppm	0.215 ppm	0.027 ppm	-0.378 ppm
Concentration per Run 2	0.015 ppm	0.241 ppm	0.022 ppm	-0.398 ppm
Concentration per Run 3	0.010 ppm	0.230 ppm	0.011 ppm	-0.382 ppm
Concentration RSD	423.7 %	5.8 %	42.1 %	2.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0063 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.007 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.005 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.008 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	25.8 %	333.3 %	149.2 %	963.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0000 ppm	-0.0009 ppm	0.0003 ppm	0.0004 ppm
Concentration per Run 1	0.000 ppm	-0.004 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.004 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	-0.002 ppm	0.001 ppm	0.001 ppm
Concentration RSD	117.1 %	508.7 %	185.4 %	133.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0030 ppm	0.0002 ppm	-0.0004 ppm	0.0007 ppm
Concentration per Run 1	-0.002 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	-0.010 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration RSD	201.9 %	137.3 %	101.6 %	46.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0048 ppm	101.3789 %	108.0179 %	102.3074 %
Concentration per Run 1	0.006 ppm	101.175 %	108.085 %	102.286 %
Concentration per Run 2	0.005 ppm	101.413 %	107.582 %	102.151 %
Concentration per Run 3	0.004 ppm	101.549 %	108.387 %	102.486 %
Concentration RSD	13.1 %	0.2 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	0.2 %	0.4 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	103.2749 %	0.0230 ppm
Concentration per Run 1	103.187 %	0.033 ppm
Concentration per Run 2	103.236 %	0.034 ppm
Concentration per Run 3	103.402 %	0.002 ppm
Concentration RSD	0.1 %	79.2 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	4 cps	2 cps	1 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	1 cps	-16 cps	13 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	2 cps	13 cps	3 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	36 cps	99 cps	24 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	62 cps	-21 cps	-56 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	5 cps	-2 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	18 cps	-3 cps	3 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-22 cps	53 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	0 cps	4,804 cps	8,743 cps	168,243 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,232 cps	2 cps

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Sample Type QC Analysis Date 10/15/2015 3:57:28 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.9875 ppm	0.4837 ppm	0.4973 ppm	1.0120 ppm
Concentration per Run 1	1.985 ppm	0.483 ppm	0.497 ppm	1.015 ppm
Concentration per Run 2	1.989 ppm	0.484 ppm	0.498 ppm	1.019 ppm
Concentration per Run 3	1.989 ppm	0.484 ppm	0.497 ppm	1.002 ppm
Concentration RSD	0.1 %	0.1 %	0.1 %	0.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5043 ppm	2.0267 ppm	0.9898 ppm	1.9844 ppm
Concentration per Run 1	0.505 ppm	2.031 ppm	0.992 ppm	1.999 ppm
Concentration per Run 2	0.504 ppm	2.018 ppm	0.996 ppm	1.979 ppm
Concentration per Run 3	0.503 ppm	2.031 ppm	0.981 ppm	1.975 ppm
Concentration RSD	0.2 %	0.4 %	0.8 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0672 ppm	3.0518 ppm	9.8093 ppm	9.6630 ppm
Concentration per Run 1	2.067 ppm	3.048 ppm	9.863 ppm	9.678 ppm
Concentration per Run 2	2.066 ppm	3.057 ppm	9.831 ppm	9.685 ppm
Concentration per Run 3	2.069 ppm	3.050 ppm	9.734 ppm	9.626 ppm
Concentration RSD	0.1 %	0.1 %	0.7 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	11.0361 ppm	1.4284 ppm	51.0744 ppm	55.8139 ppm
Concentration per Run 1	11.036 ppm	1.433 ppm	51.309 ppm	56.189 ppm
Concentration per Run 2	11.050 ppm	1.424 ppm	50.934 ppm	55.559 ppm
Concentration per Run 3	11.023 ppm	1.428 ppm	50.980 ppm	55.694 ppm
Concentration RSD	0.1 %	0.3 %	0.4 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.2 ppm	0.3 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.3140 ppm	50.9826 ppm	48.1530 ppm	48.1277 ppm
Concentration per Run 1	10.331 ppm	51.142 ppm	48.363 ppm	48.055 ppm
Concentration per Run 2	10.382 ppm	50.886 ppm	48.033 ppm	48.142 ppm
Concentration per Run 3	10.230 ppm	50.919 ppm	48.063 ppm	48.187 ppm
Concentration RSD	0.8 %	0.3 %	0.4 %	0.1 %
Concentration SD	0.1 ppm	0.1 ppm	0.2 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.9602 ppm	0.1996 ppm	1.0173 ppm	2.0389 ppm
Concentration per Run 1	1.960 ppm	0.201 ppm	1.019 ppm	2.043 ppm
Concentration per Run 2	1.957 ppm	0.199 ppm	1.016 ppm	2.036 ppm
Concentration per Run 3	1.963 ppm	0.198 ppm	1.017 ppm	2.038 ppm
Concentration RSD	0.2 %	0.6 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.0043 ppm	0.9859 ppm	1.0705 ppm	0.4420 ppm
Concentration per Run 1	1.009 ppm	0.987 ppm	1.073 ppm	0.443 ppm
Concentration per Run 2	1.010 ppm	0.987 ppm	1.067 ppm	0.442 ppm
Concentration per Run 3	0.994 ppm	0.984 ppm	1.072 ppm	0.440 ppm
Concentration RSD	0.9 %	0.2 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.9455 ppm	1.0276 ppm	1.9680 ppm	1.9878 ppm
Concentration per Run 1	1.954 ppm	1.032 ppm	1.975 ppm	1.986 ppm
Concentration per Run 2	1.943 ppm	1.023 ppm	1.978 ppm	1.990 ppm
Concentration per Run 3	1.939 ppm	1.028 ppm	1.950 ppm	1.988 ppm
Concentration RSD	0.4 %	0.4 %	0.8 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7899 ppm	89.5445 %	105.6537 %	96.7101 %
Concentration per Run 1	4.800 ppm	89.339 %	105.684 %	96.093 %
Concentration per Run 2	4.784 ppm	89.650 %	105.368 %	96.465 %
Concentration per Run 3	4.785 ppm	89.644 %	105.909 %	97.573 %
Concentration RSD	0.2 %	0.2 %	0.3 %	0.8 %
Concentration SD	0.0 ppm	0.2 %	0.3 %	0.8 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	99.0477 %	0.0595 ppm
Concentration per Run 1	98.988 %	0.076 ppm
Concentration per Run 2	99.034 %	0.045 ppm
Concentration per Run 3	99.121 %	0.058 ppm
Concentration RSD	0.1 %	26.2 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	816 cps	3,511 cps	4,244 cps	8,583 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	363 cps	585 cps	8,735 cps	1,375 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,892 cps	15,997 cps	733 cps	5,774 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	321 cps	14,639 cps	28,922 cps	16,174 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	568 cps	29,717 cps	73,693 cps	4,926 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,039 cps	3,455 cps	5,220 cps	1,204 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,743 cps	501 cps	1,921 cps	878 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	636 cps	29,446 cps	4,714 cps	2,648 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,417 cps	4,243 cps	8,552 cps	159,038 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,527 cps	13 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0018 ppm	0.0001 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	24.0 %	48.0 %	1,869.6 %	42.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0015 ppm	0.0012 ppm	0.0002 ppm	-0.0051 ppm
Concentration per Run 1	0.003 ppm	0.000 ppm	0.000 ppm	-0.004 ppm
Concentration per Run 2	0.001 ppm	0.001 ppm	0.000 ppm	-0.009 ppm
Concentration per Run 3	0.001 ppm	0.003 ppm	0.000 ppm	-0.003 ppm
Concentration RSD	74.9 %	137.6 %	134.2 %	57.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	-0.0002 ppm	0.0021 ppm	0.0376 ppm	0.0052 ppm
Concentration per Run 1	0.000 ppm	0.002 ppm	0.030 ppm	0.004 ppm
Concentration per Run 2	0.000 ppm	0.002 ppm	0.039 ppm	0.005 ppm
Concentration per Run 3	0.000 ppm	0.002 ppm	0.043 ppm	0.007 ppm
Concentration RSD	85.5 %	6.2 %	18.8 %	30.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0283 ppm	-0.0005 ppm	-0.0086 ppm	0.0006 ppm
Concentration per Run 1	-0.020 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration per Run 2	0.010 ppm	0.000 ppm	-0.012 ppm	-0.012 ppm
Concentration per Run 3	0.096 ppm	-0.001 ppm	-0.013 ppm	0.012 ppm
Concentration RSD	212.1 %	156.0 %	83.3 %	1,856.7 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0238 ppm	0.1529 ppm	0.0064 ppm	-0.4898 ppm
Concentration per Run 1	0.061 ppm	0.139 ppm	0.017 ppm	-0.468 ppm
Concentration per Run 2	0.008 ppm	0.175 ppm	0.002 ppm	-0.636 ppm
Concentration per Run 3	0.003 ppm	0.145 ppm	0.000 ppm	-0.365 ppm
Concentration RSD	134.7 %	12.5 %	146.8 %	27.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0076 ppm	-0.0001 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.006 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.010 ppm	0.000 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 3	0.007 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	21.8 %	104.3 %	207.8 %	1,499.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0001 ppm	0.0055 ppm	0.0005 ppm	0.0004 ppm
Concentration per Run 1	0.000 ppm	0.006 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.004 ppm	0.001 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.007 ppm	0.002 ppm	0.000 ppm
Concentration RSD	10.5 %	30.9 %	269.4 %	23.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0056 ppm	0.0003 ppm	0.0009 ppm	0.0006 ppm
Concentration per Run 1	0.008 ppm	0.000 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	0.002 ppm	0.001 ppm
Concentration per Run 3	0.010 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	105.7 %	27.0 %	120.2 %	42.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0062 ppm	102.3843 %	106.1504 %	102.1808 %
Concentration per Run 1	0.004 ppm	102.358 %	105.989 %	102.203 %
Concentration per Run 2	0.008 ppm	102.232 %	105.537 %	101.894 %
Concentration per Run 3	0.006 ppm	102.563 %	106.925 %	102.446 %
Concentration RSD	32.7 %	0.2 %	0.7 %	0.3 %
Concentration SD	0.0 ppm	0.2 %	0.7 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	104.2540 %	0.0627 ppm
Concentration per Run 1	104.243 %	0.054 ppm
Concentration per Run 2	104.217 %	0.053 ppm
Concentration per Run 3	104.302 %	0.081 ppm
Concentration RSD	0.0 %	25.4 %
Concentration SD	0.0 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	4 cps	2 cps	5 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	1 cps	-16 cps	10 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-4 cps	14 cps	15 cps	5 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	23 cps	96 cps	26 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	17 cps	-42 cps	-66 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	6 cps	-3 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	23 cps	1 cps	3 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	5 cps	-19 cps	56 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	0 cps	4,851 cps	8,592 cps	168,035 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,396 cps	14 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0033 ppm	0.0008 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 1	0.006 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.002 ppm	0.001 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 3	0.002 ppm	0.001 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	62.2 %	10.6 %	227.0 %	48.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0017 ppm	-0.0050 ppm	0.0003 ppm	-0.0004 ppm
Concentration per Run 1	0.001 ppm	-0.003 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.002 ppm	-0.007 ppm	0.000 ppm	0.002 ppm
Concentration per Run 3	0.002 ppm	-0.005 ppm	0.001 ppm	-0.003 ppm
Concentration RSD	53.6 %	43.4 %	193.6 %	515.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0006 ppm	0.0086 ppm	0.0655 ppm	0.0219 ppm
Concentration per Run 1	0.001 ppm	0.009 ppm	0.089 ppm	0.021 ppm
Concentration per Run 2	0.001 ppm	0.009 ppm	0.042 ppm	0.025 ppm
Concentration per Run 3	0.000 ppm	0.008 ppm	0.065 ppm	0.020 ppm
Concentration RSD	126.2 %	4.9 %	36.2 %	11.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0184 ppm	-0.0010 ppm	0.0071 ppm	0.0203 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	0.011 ppm	0.006 ppm
Concentration per Run 2	0.052 ppm	0.000 ppm	0.001 ppm	0.030 ppm
Concentration per Run 3	0.004 ppm	-0.003 ppm	0.010 ppm	0.025 ppm
Concentration RSD	160.8 %	152.6 %	77.7 %	61.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0089 ppm	0.0815 ppm	0.2349 ppm	-0.1559 ppm
Concentration per Run 1	0.009 ppm	0.087 ppm	0.237 ppm	-0.138 ppm
Concentration per Run 2	0.003 ppm	0.084 ppm	0.233 ppm	-0.193 ppm
Concentration per Run 3	0.015 ppm	0.073 ppm	0.234 ppm	-0.137 ppm
Concentration RSD	71.8 %	8.8 %	0.9 %	20.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0012 ppm	-0.0001 ppm	0.0003 ppm	0.0014 ppm
Concentration per Run 1	0.002 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration RSD	33.7 %	142.1 %	19.2 %	26.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0002 ppm	0.0049 ppm	0.0013 ppm	0.0000 ppm
Concentration per Run 1	0.000 ppm	0.003 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.006 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.006 ppm	0.003 ppm	0.000 ppm
Concentration RSD	31.9 %	29.7 %	112.9 %	393.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0020 ppm	0.0004 ppm	0.0016 ppm	0.0002 ppm
Concentration per Run 1	-0.009 ppm	0.000 ppm	0.002 ppm	0.001 ppm
Concentration per Run 2	0.010 ppm	0.000 ppm	0.002 ppm	0.001 ppm
Concentration per Run 3	-0.007 ppm	0.000 ppm	0.001 ppm	-0.001 ppm
Concentration RSD	504.7 %	26.6 %	21.7 %	297.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0658 ppm	103.0088 %	108.9365 %	103.8924 %
Concentration per Run 1	0.072 ppm	103.152 %	108.531 %	103.690 %
Concentration per Run 2	0.064 ppm	102.940 %	109.017 %	103.889 %
Concentration per Run 3	0.062 ppm	102.935 %	109.262 %	104.098 %
Concentration RSD	8.0 %	0.1 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.1 %	0.4 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	105.5111 %	0.0493 ppm
Concentration per Run 1	105.717 %	0.012 ppm
Concentration per Run 2	105.462 %	0.037 ppm
Concentration per Run 3	105.354 %	0.100 ppm
Concentration RSD	0.2 %	91.8 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	9 cps	1 cps	1 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	-1 cps	-15 cps	14 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-2 cps	46 cps	17 cps	15 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	19 cps	107 cps	32 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	-31 cps	281 cps	-31 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	-4 cps	-1 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	25 cps	0 cps	4 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-18 cps	58 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	17 cps	4,881 cps	8,818 cps	170,850 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,605 cps	8 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.0035 ppm	0.9838 ppm	1.0069 ppm	1.0229 ppm
Concentration per Run 1	1.007 ppm	0.984 ppm	1.004 ppm	1.025 ppm
Concentration per Run 2	1.008 ppm	0.985 ppm	1.010 ppm	1.025 ppm
Concentration per Run 3	0.996 ppm	0.983 ppm	1.007 ppm	1.018 ppm
Concentration RSD	0.7 %	0.1 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	1.0350 ppm	1.0446 ppm	1.0303 ppm	0.9908 ppm
Concentration per Run 1	1.032 ppm	1.041 ppm	1.030 ppm	0.981 ppm
Concentration per Run 2	1.042 ppm	1.052 ppm	1.034 ppm	0.999 ppm
Concentration per Run 3	1.031 ppm	1.041 ppm	1.027 ppm	0.992 ppm
Concentration RSD	0.6 %	0.6 %	0.3 %	1.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1.0209 ppm	0.9975 ppm	1.0542 ppm	0.9480 ppm
Concentration per Run 1	1.020 ppm	0.998 ppm	1.152 ppm	0.953 ppm
Concentration per Run 2	1.025 ppm	0.998 ppm	1.006 ppm	0.949 ppm
Concentration per Run 3	1.018 ppm	0.996 ppm	1.004 ppm	0.942 ppm
Concentration RSD	0.3 %	0.1 %	8.0 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	1.2167 ppm	0.9874 ppm	10.2722 ppm	11.1965 ppm
Concentration per Run 1	1.243 ppm	0.985 ppm	10.272 ppm	11.221 ppm
Concentration per Run 2	1.189 ppm	0.988 ppm	10.241 ppm	11.188 ppm
Concentration per Run 3	1.219 ppm	0.989 ppm	10.303 ppm	11.181 ppm
Concentration RSD	2.2 %	0.2 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.6566 ppm	10.5498 ppm	10.1517 ppm	9.9411 ppm
Concentration per Run 1	10.645 ppm	10.591 ppm	10.169 ppm	9.854 ppm
Concentration per Run 2	10.742 ppm	10.635 ppm	10.176 ppm	10.139 ppm
Concentration per Run 3	10.583 ppm	10.423 ppm	10.110 ppm	9.830 ppm
Concentration RSD	0.8 %	1.1 %	0.4 %	1.7 %
Concentration SD	0.1 ppm	0.1 ppm	0.0 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.9998 ppm	1.0019 ppm	1.0226 ppm	1.0748 ppm
Concentration per Run 1	0.994 ppm	1.001 ppm	1.023 ppm	1.071 ppm
Concentration per Run 2	1.004 ppm	1.005 ppm	1.022 ppm	1.079 ppm
Concentration per Run 3	1.001 ppm	1.000 ppm	1.023 ppm	1.074 ppm
Concentration RSD	0.5 %	0.2 %	0.1 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.0106 ppm	1.0145 ppm	1.0301 ppm	0.8785 ppm
Concentration per Run 1	1.011 ppm	1.016 ppm	1.030 ppm	0.881 ppm
Concentration per Run 2	1.011 ppm	1.011 ppm	1.029 ppm	0.879 ppm
Concentration per Run 3	1.010 ppm	1.016 ppm	1.031 ppm	0.876 ppm
Concentration RSD	0.1 %	0.3 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.9881 ppm	1.0262 ppm	1.0240 ppm	0.9965 ppm
Concentration per Run 1	0.997 ppm	1.023 ppm	1.023 ppm	0.992 ppm
Concentration per Run 2	0.989 ppm	1.030 ppm	1.028 ppm	1.003 ppm
Concentration per Run 3	0.978 ppm	1.026 ppm	1.021 ppm	0.994 ppm
Concentration RSD	0.9 %	0.3 %	0.3 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0556 ppm	96.5477 %	110.0447 %	101.2960 %
Concentration per Run 1	0.054 ppm	96.743 %	109.452 %	101.380 %
Concentration per Run 2	0.057 ppm	96.571 %	110.240 %	101.318 %
Concentration per Run 3	0.056 ppm	96.329 %	110.442 %	101.190 %
Concentration RSD	2.3 %	0.2 %	0.5 %	0.1 %
Concentration SD	0.0 ppm	0.2 %	0.5 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	103.2423 %	0.0645 ppm
Concentration per Run 1	103.534 %	0.102 ppm
Concentration per Run 2	103.177 %	0.057 ppm
Concentration per Run 3	103.016 %	0.034 ppm
Concentration RSD	0.3 %	53.6 %
Concentration SD	0.3 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	384 cps	6,696 cps	8,059 cps	8,180 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	725 cps	283 cps	8,570 cps	651 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1,864 cps	4,907 cps	85 cps	533 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	34 cps	9,496 cps	5,539 cps	3,063 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	550 cps	5,703 cps	14,520 cps	941 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	498 cps	16,269 cps	5,092 cps	614 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	38,653 cps	483 cps	1,733 cps	1,635 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	305 cps	27,564 cps	2,341 cps	1,246 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	14 cps	4,575 cps	8,907 cps	166,580 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,227 cps	13 cps

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LCSD WG821543

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.9803 ppm	0.9655 ppm	0.9888 ppm	1.0067 ppm
Concentration per Run 1	0.977 ppm	0.967 ppm	0.987 ppm	1.007 ppm
Concentration per Run 2	0.989 ppm	0.965 ppm	0.990 ppm	1.006 ppm
Concentration per Run 3	0.975 ppm	0.964 ppm	0.989 ppm	1.007 ppm
Concentration RSD	0.7 %	0.1 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	1.0124 ppm	1.0328 ppm	1.0135 ppm	0.9814 ppm
Concentration per Run 1	1.012 ppm	1.029 ppm	1.016 ppm	0.986 ppm
Concentration per Run 2	1.011 ppm	1.030 ppm	1.011 ppm	0.985 ppm
Concentration per Run 3	1.014 ppm	1.039 ppm	1.013 ppm	0.974 ppm
Concentration RSD	0.2 %	0.5 %	0.3 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1.0031 ppm	0.9781 ppm	1.0058 ppm	0.9324 ppm
Concentration per Run 1	1.000 ppm	0.978 ppm	0.943 ppm	0.933 ppm
Concentration per Run 2	1.000 ppm	0.977 ppm	1.038 ppm	0.933 ppm
Concentration per Run 3	1.009 ppm	0.979 ppm	1.036 ppm	0.931 ppm
Concentration RSD	0.5 %	0.1 %	5.4 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	1.1694 ppm	0.9731 ppm	10.0869 ppm	10.9886 ppm
Concentration per Run 1	1.197 ppm	0.979 ppm	10.059 ppm	10.987 ppm
Concentration per Run 2	1.083 ppm	0.971 ppm	10.111 ppm	10.934 ppm
Concentration per Run 3	1.227 ppm	0.969 ppm	10.091 ppm	11.044 ppm
Concentration RSD	6.5 %	0.5 %	0.3 %	0.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.4528 ppm	10.3551 ppm	10.0421 ppm	9.6168 ppm
Concentration per Run 1	10.420 ppm	10.384 ppm	10.098 ppm	9.443 ppm
Concentration per Run 2	10.486 ppm	10.309 ppm	9.999 ppm	9.653 ppm
Concentration per Run 3	10.452 ppm	10.372 ppm	10.029 ppm	9.754 ppm
Concentration RSD	0.3 %	0.4 %	0.5 %	1.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.9781 ppm	0.9881 ppm	1.0050 ppm	1.0545 ppm
Concentration per Run 1	0.977 ppm	0.991 ppm	1.006 ppm	1.057 ppm
Concentration per Run 2	0.977 ppm	0.986 ppm	1.004 ppm	1.053 ppm
Concentration per Run 3	0.980 ppm	0.988 ppm	1.005 ppm	1.053 ppm
Concentration RSD	0.2 %	0.2 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9955 ppm	0.9916 ppm	1.0091 ppm	0.8655 ppm
Concentration per Run 1	0.996 ppm	0.993 ppm	1.010 ppm	0.867 ppm
Concentration per Run 2	0.995 ppm	0.985 ppm	1.006 ppm	0.864 ppm
Concentration per Run 3	0.995 ppm	0.996 ppm	1.012 ppm	0.866 ppm
Concentration RSD	0.1 %	0.6 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.9721 ppm	1.0119 ppm	1.0043 ppm	0.9765 ppm
Concentration per Run 1	0.971 ppm	1.017 ppm	1.003 ppm	0.977 ppm
Concentration per Run 2	0.961 ppm	1.010 ppm	1.003 ppm	0.974 ppm
Concentration per Run 3	0.984 ppm	1.008 ppm	1.007 ppm	0.979 ppm
Concentration RSD	1.2 %	0.4 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0545 ppm	96.2752 %	109.5634 %	101.0395 %
Concentration per Run 1	0.057 ppm	96.282 %	110.206 %	101.019 %
Concentration per Run 2	0.052 ppm	96.265 %	109.662 %	101.188 %
Concentration per Run 3	0.054 ppm	96.278 %	108.822 %	100.911 %
Concentration RSD	4.0 %	0.0 %	0.6 %	0.1 %
Concentration SD	0.0 ppm	0.0 %	0.7 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	103.0650 %	0.0731 ppm
Concentration per Run 1	103.059 %	0.103 ppm
Concentration per Run 2	102.907 %	0.048 ppm
Concentration per Run 3	103.229 %	0.068 ppm
Concentration RSD	0.2 %	38.2 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	375 cps	6,560 cps	7,901 cps	8,030 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	707 cps	279 cps	8,409 cps	643 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1,826 cps	4,804 cps	81 cps	522 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	32 cps	9,319 cps	5,417 cps	2,994 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	537 cps	5,572 cps	14,300 cps	905 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	486 cps	15,974 cps	4,989 cps	601 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	37,976 cps	470 cps	1,691 cps	1,608 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	298 cps	27,059 cps	2,291 cps	1,219 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	14 cps	4,562 cps	8,868 cps	166,158 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,197 cps	15 cps

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L793892-06 WG821543

Sample Type UNKNOWN Analysis Date 10/15/2015 4:12:19 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0060 ppm	0.0563 ppm	0.0003 ppm	-0.0003 ppm
Concentration per Run 1	0.006 ppm	0.056 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.009 ppm	0.056 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.003 ppm	0.056 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	52.0 %	0.5 %	41.2 %	85.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0042 ppm	-0.0006 ppm	-0.0003 ppm	-0.0052 ppm
Concentration per Run 1	0.003 ppm	0.001 ppm	0.000 ppm	-0.011 ppm
Concentration per Run 2	0.004 ppm	-0.002 ppm	0.000 ppm	-0.010 ppm
Concentration per Run 3	0.006 ppm	-0.001 ppm	-0.001 ppm	0.006 ppm
Concentration RSD	45.9 %	189.2 %	220.0 %	181.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0019 ppm	0.0015 ppm	0.0634 ppm	0.6459 ppm
Concentration per Run 1	0.002 ppm	0.001 ppm	0.074 ppm	0.641 ppm
Concentration per Run 2	0.002 ppm	0.002 ppm	0.037 ppm	0.649 ppm
Concentration per Run 3	0.002 ppm	0.001 ppm	0.079 ppm	0.648 ppm
Concentration RSD	3.7 %	3.6 %	36.1 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.7460 ppm	0.0716 ppm	91.0736 ppm	99.8466 ppm
Concentration per Run 1	0.748 ppm	0.069 ppm	91.465 ppm	100.192 ppm
Concentration per Run 2	0.765 ppm	0.073 ppm	91.208 ppm	99.994 ppm
Concentration per Run 3	0.725 ppm	0.073 ppm	90.548 ppm	99.354 ppm
Concentration RSD	2.7 %	3.4 %	0.5 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.5 ppm	0.4 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	39.8763 ppm	11.8284 ppm	41.7827 ppm	41.8425 ppm
Concentration per Run 1	40.130 ppm	11.820 ppm	41.848 ppm	41.827 ppm
Concentration per Run 2	39.912 ppm	11.823 ppm	41.807 ppm	41.804 ppm
Concentration per Run 3	39.586 ppm	11.842 ppm	41.693 ppm	41.897 ppm
Concentration RSD	0.7 %	0.1 %	0.2 %	0.1 %
Concentration SD	0.3 ppm	0.0 ppm	0.1 ppm	0.0 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0005 ppm	0.0001 ppm	0.0005 ppm	0.0000 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.001 ppm	-0.001 ppm
Concentration RSD	55.3 %	75.1 %	28.3 %	2,478.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.2123 ppm	0.0045 ppm	0.0139 ppm	0.0030 ppm
Concentration per Run 1	0.213 ppm	0.006 ppm	0.015 ppm	0.003 ppm
Concentration per Run 2	0.212 ppm	0.000 ppm	0.014 ppm	0.003 ppm
Concentration per Run 3	0.212 ppm	0.007 ppm	0.012 ppm	0.003 ppm
Concentration RSD	0.2 %	85.6 %	9.4 %	8.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.1258 ppm	0.4597 ppm	5.1465 ppm	0.0002 ppm
Concentration per Run 1	0.128 ppm	0.461 ppm	5.155 ppm	0.000 ppm
Concentration per Run 2	0.123 ppm	0.461 ppm	5.146 ppm	0.001 ppm
Concentration per Run 3	0.126 ppm	0.458 ppm	5.138 ppm	0.000 ppm
Concentration RSD	1.9 %	0.4 %	0.2 %	191.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	52.7634 ppm	89.9917 %	107.9008 %	96.6372 %
Concentration per Run 1	52.806 ppm	90.100 %	107.273 %	96.772 %
Concentration per Run 2	52.709 ppm	89.869 %	107.969 %	96.442 %
Concentration per Run 3	52.775 ppm	90.006 %	108.460 %	96.697 %
Concentration RSD	0.1 %	0.1 %	0.6 %	0.2 %
Concentration SD	0.0 ppm	0.1 %	0.6 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	98.3843 %	0.0454 ppm
Concentration per Run 1	98.346 %	0.028 ppm
Concentration per Run 2	98.342 %	0.050 ppm
Concentration per Run 3	98.464 %	0.058 ppm
Concentration RSD	0.1 %	34.0 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	368 cps	4 cps	5 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1 cps	0 cps	-19 cps	10 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	0 cps	10 cps	16 cps	357 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	20 cps	702 cps	47,339 cps	26,578 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2,019 cps	6,278 cps	58,762 cps	3,933 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-1 cps	0 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	7,758 cps	0 cps	25 cps	8 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	41 cps	12,093 cps	11,019 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	13,966 cps	4,264 cps	8,734 cps	158,919 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,416 cps	7 cps

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QTEGRA

SD L793892-06 WG821543

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Dilution Factor 5

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.0178 ppm	0.0552 ppm	0.0010 ppm
Concentration per Run 1	0.019 ppm	0.057 ppm	0.002 ppm
Concentration per Run 2	0.014 ppm	0.055 ppm	0.000 ppm
Concentration per Run 3	0.021 ppm	0.054 ppm	0.001 ppm
Concentration RSD	20.7 %	3.0 %	93.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0034 ppm	0.0079 ppm	-0.0270 ppm
Concentration per Run 1	-0.002 ppm	0.001 ppm	-0.039 ppm
Concentration per Run 2	-0.009 ppm	0.016 ppm	-0.019 ppm
Concentration per Run 3	0.001 ppm	0.007 ppm	-0.023 ppm
Concentration RSD	142.9 %	96.5 %	38.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0000 ppm	-0.0110 ppm	0.0021 ppm
Concentration per Run 1	0.001 ppm	-0.001 ppm	0.002 ppm
Concentration per Run 2	-0.001 ppm	-0.021 ppm	0.003 ppm
Concentration per Run 3	0.000 ppm	-0.011 ppm	0.001 ppm
Concentration RSD	3,254.4 %	89.4 %	37.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0039 ppm	0.2462 ppm	0.6562 ppm
Concentration per Run 1	0.005 ppm	0.365 ppm	0.641 ppm
Concentration per Run 2	0.005 ppm	0.047 ppm	0.657 ppm
Concentration per Run 3	0.002 ppm	0.327 ppm	0.671 ppm
Concentration RSD	40.0 %	70.5 %	2.3 %
Concentration SD	0.0 ppm	0.2 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.6461 ppm	0.0741 ppm	94.7680 ppm
Concentration per Run 1	0.352 ppm	0.075 ppm	95.196 ppm
Concentration per Run 2	0.836 ppm	0.070 ppm	94.534 ppm
Concentration per Run 3	0.749 ppm	0.077 ppm	94.574 ppm
Concentration RSD	39.9 %	4.7 %	0.4 %
Concentration SD	0.3 ppm	0.0 ppm	0.4 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	104.2736 ppm	41.7419 ppm	12.9547 ppm
Concentration per Run 1	104.801 ppm	42.067 ppm	13.122 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	104.189 ppm	41.762 ppm	12.810 ppm
Concentration per Run 3	103.831 ppm	41.396 ppm	12.931 ppm
Concentration RSD	0.5 %	0.8 %	1.2 %
Concentration SD	0.5 ppm	0.3 ppm	0.2 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	43.2329 ppm	40.7336 ppm	-0.0034 ppm
Concentration per Run 1	43.339 ppm	41.396 ppm	-0.001 ppm
Concentration per Run 2	43.167 ppm	39.675 ppm	-0.008 ppm
Concentration per Run 3	43.192 ppm	41.129 ppm	-0.001 ppm
Concentration RSD	0.2 %	2.3 %	121.7 %
Concentration SD	0.1 ppm	0.9 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0001 ppm	0.0009 ppm	-0.0020 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	-0.006 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	-0.002 ppm
Concentration RSD	437.3 %	33.6 %	177.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.2204 ppm	0.0225 ppm	0.0219 ppm
Concentration per Run 1	0.220 ppm	0.013 ppm	0.034 ppm
Concentration per Run 2	0.221 ppm	0.037 ppm	0.008 ppm
Concentration per Run 3	0.221 ppm	0.017 ppm	0.024 ppm
Concentration RSD	0.3 %	57.0 %	60.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0017 ppm	0.1088 ppm	0.4714 ppm
Concentration per Run 1	0.000 ppm	0.103 ppm	0.472 ppm
Concentration per Run 2	0.001 ppm	0.097 ppm	0.471 ppm
Concentration per Run 3	0.004 ppm	0.126 ppm	0.471 ppm
Concentration RSD	110.6 %	14.4 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	5.0661 ppm	-0.0014 ppm	48.3855 ppm
Concentration per Run 1	5.067 ppm	0.002 ppm	49.936 ppm
Concentration per Run 2	5.069 ppm	-0.005 ppm	48.095 ppm
Concentration per Run 3	5.062 ppm	-0.001 ppm	47.125 ppm
Concentration RSD	0.1 %	243.9 %	3.0 %
Concentration SD	0.0 ppm	0.0 ppm	1.4 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	97.7769 %	108.0404 %	100.1700 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	96.770 %	108.036 %	100.418 %
Concentration per Run 2	98.248 %	107.851 %	100.216 %
Concentration per Run 3	98.312 %	108.234 %	99.876 %
Concentration RSD	0.9 %	0.2 %	0.3 %
Concentration SD	0.9 %	0.2 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	102.9526 %	0.3543 ppm
Concentration per Run 1	102.015 %	0.346 ppm
Concentration per Run 2	103.345 %	0.357 ppm
Concentration per Run 3	103.498 %	0.360 ppm
Concentration RSD	0.8 %	2.1 %
Concentration SD	0.8 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	78 cps	3 cps	1 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	-1 cps	-17 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-2 cps	7 cps	15 cps	74 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	4 cps	168 cps	9,946 cps	5,579 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	423 cps	1,319 cps	12,135 cps	754 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-2 cps	-1 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	1,682 cps	0 cps	9 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	10 cps	2,462 cps	2,291 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2,679 cps	4,633 cps	8,745 cps	164,728 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,178 cps	14 cps

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MS L793892-06 WG821543

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	1.0422 ppm	1.0263 ppm	1.0273 ppm
Concentration per Run 1	1.050 ppm	1.027 ppm	1.027 ppm
Concentration per Run 2	1.041 ppm	1.026 ppm	1.026 ppm
Concentration per Run 3	1.035 ppm	1.027 ppm	1.029 ppm
Concentration RSD	0.7 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	1.0307 ppm	1.0443 ppm	1.0843 ppm
Concentration per Run 1	1.031 ppm	1.045 ppm	1.084 ppm
Concentration per Run 2	1.028 ppm	1.044 ppm	1.081 ppm
Concentration per Run 3	1.033 ppm	1.045 ppm	1.088 ppm
Concentration RSD	0.2 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	1.0517 ppm	0.9979 ppm	1.0396 ppm
Concentration per Run 1	1.048 ppm	0.987 ppm	1.040 ppm
Concentration per Run 2	1.051 ppm	1.001 ppm	1.039 ppm
Concentration per Run 3	1.056 ppm	1.006 ppm	1.040 ppm
Concentration RSD	0.4 %	1.0 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.9999 ppm	1.0243 ppm	1.5993 ppm
Concentration per Run 1	1.001 ppm	0.989 ppm	1.588 ppm
Concentration per Run 2	0.999 ppm	1.046 ppm	1.607 ppm
Concentration per Run 3	1.000 ppm	1.038 ppm	1.603 ppm
Concentration RSD	0.1 %	3.0 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	1.8428 ppm	1.0491 ppm	101.0435 ppm
Concentration per Run 1	1.818 ppm	1.046 ppm	100.714 ppm
Concentration per Run 2	1.829 ppm	1.050 ppm	101.526 ppm
Concentration per Run 3	1.881 ppm	1.051 ppm	100.890 ppm
Concentration RSD	1.8 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.4 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	110.6524 ppm	50.6832 ppm	22.1139 ppm
Concentration per Run 1	110.320 ppm	50.287 ppm	22.051 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	111.017 ppm	51.110 ppm	22.090 ppm
Concentration per Run 3	110.620 ppm	50.652 ppm	22.200 ppm
Concentration RSD	0.3 %	0.8 %	0.3 %
Concentration SD	0.3 ppm	0.4 ppm	0.1 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	51.3419 ppm	51.2923 ppm	1.0168 ppm
Concentration per Run 1	51.275 ppm	51.121 ppm	1.017 ppm
Concentration per Run 2	51.388 ppm	51.207 ppm	1.017 ppm
Concentration per Run 3	51.363 ppm	51.549 ppm	1.016 ppm
Concentration RSD	0.1 %	0.4 %	0.0 %
Concentration SD	0.1 ppm	0.2 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.0044 ppm	1.0393 ppm	1.0618 ppm
Concentration per Run 1	1.002 ppm	1.040 ppm	1.065 ppm
Concentration per Run 2	1.007 ppm	1.037 ppm	1.061 ppm
Concentration per Run 3	1.005 ppm	1.040 ppm	1.059 ppm
Concentration RSD	0.3 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	1.2153 ppm	1.0074 ppm	1.0408 ppm
Concentration per Run 1	1.216 ppm	1.005 ppm	1.033 ppm
Concentration per Run 2	1.213 ppm	1.003 ppm	1.037 ppm
Concentration per Run 3	1.216 ppm	1.014 ppm	1.052 ppm
Concentration RSD	0.1 %	0.6 %	1.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.8898 ppm	1.1101 ppm	1.4740 ppm
Concentration per Run 1	0.890 ppm	1.111 ppm	1.475 ppm
Concentration per Run 2	0.891 ppm	1.117 ppm	1.472 ppm
Concentration per Run 3	0.889 ppm	1.102 ppm	1.475 ppm
Concentration RSD	0.1 %	0.7 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	6.1841 ppm	0.9893 ppm	52.8287 ppm
Concentration per Run 1	6.179 ppm	0.988 ppm	52.803 ppm
Concentration per Run 2	6.171 ppm	0.990 ppm	52.857 ppm
Concentration per Run 3	6.203 ppm	0.989 ppm	52.827 ppm
Concentration RSD	0.3 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	88.3131 %	106.5987 %	95.4005 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	88.325 %	107.325 %	95.238 %
Concentration per Run 2	88.483 %	105.781 %	95.444 %
Concentration per Run 3	88.131 %	106.690 %	95.519 %
Concentration RSD	0.2 %	0.7 %	0.2 %
Concentration SD	0.2 %	0.8 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	97.5914 %	0.0835 ppm
Concentration per Run 1	97.616 %	0.077 ppm
Concentration per Run 2	97.793 %	0.084 ppm
Concentration per Run 3	97.366 %	0.089 ppm
Concentration RSD	0.2 %	7.6 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	377 cps	6,603 cps	7,773 cps	7,763 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	669 cps	278 cps	8,239 cps	635 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1,736 cps	4,650 cps	80 cps	870 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	49 cps	9,772 cps	51,877 cps	29,096 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2,535 cps	11,660 cps	71,346 cps	4,766 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	479 cps	15,799 cps	4,733 cps	555 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	43,771 cps	465 cps	1,696 cps	1,565 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	331 cps	38,364 cps	13,061 cps	1,170 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	13,870 cps	4,185 cps	8,628 cps	156,885 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,284 cps	18 cps

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MSD L793892-06 WG821543

Sample Type UNKNOWN Analysis Date 10/15/2015 4:21:16 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.0297 ppm	1.0187 ppm	1.0189 ppm	1.0011 ppm
Concentration per Run 1	1.025 ppm	1.017 ppm	1.016 ppm	0.940 ppm
Concentration per Run 2	1.031 ppm	1.018 ppm	1.018 ppm	1.027 ppm
Concentration per Run 3	1.033 ppm	1.021 ppm	1.022 ppm	1.037 ppm
Concentration RSD	0.4 %	0.2 %	0.3 %	5.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	1.0458 ppm	1.0816 ppm	1.0172 ppm	0.2079 ppm
Concentration per Run 1	1.047 ppm	1.074 ppm	0.950 ppm	0.008 ppm
Concentration per Run 2	1.045 ppm	1.081 ppm	1.047 ppm	0.175 ppm
Concentration per Run 3	1.045 ppm	1.090 ppm	1.054 ppm	0.441 ppm
Concentration RSD	0.1 %	0.7 %	5.7 %	105.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.2 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1.0394 ppm	0.9992 ppm	0.3336 ppm	0.3510 ppm
Concentration per Run 1	1.037 ppm	0.995 ppm	0.194 ppm	0.023 ppm
Concentration per Run 2	1.041 ppm	1.001 ppm	0.292 ppm	0.307 ppm
Concentration per Run 3	1.040 ppm	1.002 ppm	0.515 ppm	0.724 ppm
Concentration RSD	0.2 %	0.4 %	49.2 %	100.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.2 ppm	0.4 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.4033 ppm	0.2199 ppm	11.0793 ppm	25.4830 ppm
Concentration per Run 1	0.054 ppm	0.012 ppm	1.365 ppm	1.497 ppm
Concentration per Run 2	0.292 ppm	0.189 ppm	20.794 ppm	22.138 ppm
Concentration per Run 3	0.863 ppm	0.459 ppm		52.814 ppm
Concentration RSD	103.1 %	102.3 %	124.0 %	101.3 %
Concentration SD	0.4 ppm	0.2 ppm	13.7 ppm	25.8 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	12.3193 ppm	5.2095 ppm	0.6037 ppm	10.4497 ppm
Concentration per Run 1	0.721 ppm	0.496 ppm	0.604 ppm	-0.144 ppm
Concentration per Run 2	10.892 ppm	4.555 ppm		8.795 ppm
Concentration per Run 3	25.345 ppm	10.578 ppm		22.699 ppm
Concentration RSD	100.4 %	97.4 %		110.2 %
Concentration SD	12.4 ppm	5.1 ppm		11.5 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.0087 ppm	0.2128 ppm	1.0369 ppm	1.0598 ppm
Concentration per Run 1	1.008 ppm	0.011 ppm	1.035 ppm	1.055 ppm
Concentration per Run 2	1.007 ppm	0.180 ppm	1.038 ppm	1.064 ppm
Concentration per Run 3	1.011 ppm	0.447 ppm	1.038 ppm	1.061 ppm
Concentration RSD	0.2 %	103.2 %	0.2 %	0.4 %
Concentration SD	0.0 ppm	0.2 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.1823 ppm	0.2234 ppm	0.2211 ppm	0.8889 ppm
Concentration per Run 1	1.110 ppm	0.016 ppm	0.012 ppm	0.886 ppm
Concentration per Run 2	1.214 ppm	0.198 ppm	0.191 ppm	0.889 ppm
Concentration per Run 3	1.223 ppm	0.455 ppm	0.459 ppm	0.891 ppm
Concentration RSD	5.3 %	98.8 %	101.7 %	0.3 %
Concentration SD	0.1 ppm	0.2 ppm	0.2 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.2433 ppm	0.1406 ppm	6.0055 ppm	0.9868 ppm
Concentration per Run 1	0.013 ppm	0.017 ppm	5.608 ppm	0.985 ppm
Concentration per Run 2	0.216 ppm	0.264 ppm	6.173 ppm	0.987 ppm
Concentration per Run 3	0.501 ppm		6.235 ppm	0.988 ppm
Concentration RSD	100.7 %	124.6 %	5.8 %	0.2 %
Concentration SD	0.2 ppm	0.2 ppm	0.3 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	52.8234 ppm	88.1608 %	108.0125 %	97.9389 %
Concentration per Run 1	52.585 ppm	88.378 %	101.329 %	103.307 %
Concentration per Run 2	52.874 ppm	88.091 %	105.271 %	95.848 %
Concentration per Run 3	53.011 ppm	88.014 %	117.438 %	94.661 %
Concentration RSD	0.4 %	0.2 %	7.8 %	4.8 %
Concentration SD	0.2 ppm	0.2 %	8.4 %	4.7 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	97.7158 %	0.0226 ppm
Concentration per Run 1	97.992 %	0.020 ppm
Concentration per Run 2	97.673 %	0.002 ppm
Concentration per Run 3	97.483 %	0.046 ppm
Concentration RSD	0.3 %	97.2 %
Concentration SD	0.3 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	373 cps	6,563 cps	7,719 cps	7,727 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	669 cps	277 cps	8,165 cps	152 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1,733 cps	4,652 cps	35 cps	205 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	12 cps	2,206 cps	5,692 cps	7,161 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	656 cps	2,865 cps	749 cps	1,027 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	476 cps	3,569 cps	4,714 cps	553 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	43,644 cps	108 cps	386 cps	1,566 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	80 cps	3,581 cps	12,999 cps	1,168 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	13,886 cps	4,177 cps	8,743 cps	161,059 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,305 cps	1 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.0053 ppm	0.0827 ppm	0.0003 ppm
Concentration per Run 1	0.003 ppm	0.083 ppm	0.000 ppm
Concentration per Run 2	0.007 ppm	0.083 ppm	0.000 ppm
Concentration per Run 3	0.006 ppm	0.083 ppm	0.000 ppm
Concentration RSD	34.3 %	0.2 %	26.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0007 ppm	0.0048 ppm	0.0000 ppm
Concentration per Run 1	0.001 ppm	0.005 ppm	0.001 ppm
Concentration per Run 2	0.001 ppm	0.003 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.006 ppm	-0.001 ppm
Concentration RSD	73.6 %	34.7 %	1,756.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	-0.0008 ppm	0.0013 ppm	0.0027 ppm
Concentration per Run 1	-0.001 ppm	0.004 ppm	0.003 ppm
Concentration per Run 2	-0.001 ppm	0.002 ppm	0.003 ppm
Concentration per Run 3	-0.001 ppm	-0.002 ppm	0.002 ppm
Concentration RSD	48.4 %	233.0 %	18.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0037 ppm	0.7827 ppm	0.4959 ppm
Concentration per Run 1	0.004 ppm	0.761 ppm	0.498 ppm
Concentration per Run 2	0.004 ppm	0.810 ppm	0.498 ppm
Concentration per Run 3	0.004 ppm	0.778 ppm	0.491 ppm
Concentration RSD	3.3 %	3.2 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.5037 ppm	0.0130 ppm	227.0218 ppm
Concentration per Run 1	0.501 ppm	0.011 ppm	227.344 ppm
Concentration per Run 2	0.496 ppm	0.013 ppm	227.230 ppm
Concentration per Run 3	0.514 ppm	0.015 ppm	226.491 ppm
Concentration RSD	1.9 %	15.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.5 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	249.3839 ppm	49.2326 ppm	5.2306 ppm
Concentration per Run 1	249.632 ppm	49.364 ppm	5.255 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	249.357 ppm	49.274 ppm	5.209 ppm
Concentration per Run 3	249.162 ppm	49.061 ppm	5.228 ppm
Concentration RSD	0.1 %	0.3 %	0.4 %
Concentration SD	0.2 ppm	0.2 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	251.4602 ppm	275.1779 ppm	0.0010 ppm
Concentration per Run 1	252.554 ppm	275.517 ppm	-0.002 ppm
Concentration per Run 2	252.262 ppm	275.043 ppm	0.004 ppm
Concentration per Run 3	249.565 ppm	274.974 ppm	0.001 ppm
Concentration RSD	0.7 %	0.1 %	307.4 %
Concentration SD	1.6 ppm	0.3 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0001 ppm	0.0007 ppm	-0.0001 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	-0.002 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	-0.001 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	0.002 ppm
Concentration RSD	28.4 %	10.6 %	1,842.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.1909 ppm	0.0044 ppm	0.0481 ppm
Concentration per Run 1	0.191 ppm	0.008 ppm	0.049 ppm
Concentration per Run 2	0.190 ppm	0.000 ppm	0.047 ppm
Concentration per Run 3	0.192 ppm	0.005 ppm	0.049 ppm
Concentration RSD	0.6 %	83.7 %	2.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0008 ppm	0.1731 ppm	0.5540 ppm
Concentration per Run 1	0.001 ppm	0.172 ppm	0.554 ppm
Concentration per Run 2	0.001 ppm	0.172 ppm	0.554 ppm
Concentration per Run 3	0.001 ppm	0.175 ppm	0.554 ppm
Concentration RSD	15.4 %	0.8 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	8.0305 ppm	-0.0001 ppm	40.0341 ppm
Concentration per Run 1	8.007 ppm	0.000 ppm	40.131 ppm
Concentration per Run 2	8.012 ppm	0.000 ppm	40.199 ppm
Concentration per Run 3	8.073 ppm	0.000 ppm	39.772 ppm
Concentration RSD	0.5 %	644.2 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.2 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	81.3248 %	103.4976 %	89.8879 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	81.244 %	103.563 %	90.010 %
Concentration per Run 2	81.394 %	103.871 %	89.907 %
Concentration per Run 3	81.337 %	103.059 %	89.747 %
Concentration RSD	0.1 %	0.4 %	0.1 %
Concentration SD	0.1 %	0.4 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	92.7620 %	0.0342 ppm
Concentration per Run 1	92.686 %	0.062 ppm
Concentration per Run 2	92.796 %	0.038 ppm
Concentration per Run 3	92.804 %	0.003 ppm
Concentration RSD	0.1 %	86.3 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	509 cps	3 cps	11 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1 cps	0 cps	-22 cps	14 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	2 cps	19 cps	62 cps	263 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	13 cps	144 cps	113,044 cps	63,637 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2,391 cps	2,623 cps	339,474 cps	24,892 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	0 cps	1 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	6,492 cps	0 cps	78 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	53 cps	13,982 cps	15,966 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	9,991 cps	3,854 cps	8,377 cps	147,819 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	15,478 cps	4 cps

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L793892-02 WG821543

Sample Type UNKNOWN Analysis Date 10/15/2015 4:27:20 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.0061 ppm	0.0774 ppm	0.0000 ppm
Concentration per Run 1	0.006 ppm	0.077 ppm	0.000 ppm
Concentration per Run 2	0.004 ppm	0.077 ppm	0.000 ppm
Concentration per Run 3	0.008 ppm	0.077 ppm	0.000 ppm
Concentration RSD	36.4 %	0.1 %	1,547.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0017 ppm	0.0068 ppm	-0.0039 ppm
Concentration per Run 1	0.002 ppm	0.007 ppm	-0.003 ppm
Concentration per Run 2	0.002 ppm	0.007 ppm	-0.006 ppm
Concentration per Run 3	0.002 ppm	0.006 ppm	-0.003 ppm
Concentration RSD	12.9 %	11.3 %	48.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0004 ppm	0.0033 ppm	0.0037 ppm
Concentration per Run 1	0.001 ppm	0.001 ppm	0.003 ppm
Concentration per Run 2	0.001 ppm	0.002 ppm	0.004 ppm
Concentration per Run 3	-0.001 ppm	0.007 ppm	0.003 ppm
Concentration RSD	254.6 %	92.2 %	9.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0083 ppm	1.5396 ppm	2.0894 ppm
Concentration per Run 1	0.008 ppm	1.548 ppm	2.102 ppm
Concentration per Run 2	0.008 ppm	1.542 ppm	2.079 ppm
Concentration per Run 3	0.008 ppm	1.529 ppm	2.087 ppm
Concentration RSD	1.0 %	0.6 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	2.4259 ppm	0.0321 ppm	155.8757 ppm
Concentration per Run 1	2.456 ppm	0.032 ppm	156.625 ppm
Concentration per Run 2	2.448 ppm	0.031 ppm	155.449 ppm
Concentration per Run 3	2.373 ppm	0.033 ppm	155.554 ppm
Concentration RSD	1.9 %	2.6 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.7 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	170.8154 ppm	72.4432 ppm	14.9542 ppm
Concentration per Run 1	171.368 ppm	72.783 ppm	14.950 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	170.369 ppm	72.627 ppm	14.894 ppm
Concentration per Run 3	170.709 ppm	71.919 ppm	15.019 ppm
Concentration RSD	0.3 %	0.6 %	0.4 %
Concentration SD	0.5 ppm	0.5 ppm	0.1 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	23.5604 ppm	23.1990 ppm	-0.0004 ppm
Concentration per Run 1	23.567 ppm	23.113 ppm	0.000 ppm
Concentration per Run 2	23.517 ppm	23.249 ppm	-0.001 ppm
Concentration per Run 3	23.597 ppm	23.234 ppm	0.000 ppm
Concentration RSD	0.2 %	0.3 %	220.8 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0001 ppm	0.0019 ppm	0.0004 ppm
Concentration per Run 1	0.000 ppm	0.002 ppm	-0.001 ppm
Concentration per Run 2	0.000 ppm	0.002 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.002 ppm	0.002 ppm
Concentration RSD	86.3 %	1.5 %	346.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.0773 ppm	0.0063 ppm	0.0531 ppm
Concentration per Run 1	0.078 ppm	0.010 ppm	0.056 ppm
Concentration per Run 2	0.077 ppm	-0.001 ppm	0.050 ppm
Concentration per Run 3	0.077 ppm	0.010 ppm	0.053 ppm
Concentration RSD	0.3 %	99.7 %	5.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0003 ppm	0.4248 ppm	0.9250 ppm
Concentration per Run 1	0.000 ppm	0.417 ppm	0.924 ppm
Concentration per Run 2	0.000 ppm	0.426 ppm	0.923 ppm
Concentration per Run 3	0.001 ppm	0.432 ppm	0.928 ppm
Concentration RSD	118.9 %	1.7 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	6.9325 ppm	-0.0003 ppm	52.3427 ppm
Concentration per Run 1	6.929 ppm	0.000 ppm	52.292 ppm
Concentration per Run 2	6.922 ppm	-0.001 ppm	52.385 ppm
Concentration per Run 3	6.947 ppm	0.000 ppm	52.352 ppm
Concentration RSD	0.2 %	182.8 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	87.2611 %	105.4038 %	94.1000 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	87.247 %	104.679 %	94.075 %
Concentration per Run 2	87.230 %	105.754 %	94.277 %
Concentration per Run 3	87.307 %	105.779 %	93.948 %
Concentration RSD	0.0 %	0.6 %	0.2 %
Concentration SD	0.0 %	0.6 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	96.5291 %	0.0485 ppm
Concentration per Run 1	96.473 %	0.039 ppm
Concentration per Run 2	96.474 %	0.013 ppm
Concentration per Run 3	96.641 %	0.094 ppm
Concentration RSD	0.1 %	84.7 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	495 cps	1 cps	19 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	3 cps	-1 cps	-13 cps	15 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3 cps	41 cps	113 cps	1,123 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	64 cps	322 cps	79,077 cps	44,399 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	3,583 cps	7,773 cps	32,346 cps	2,123 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-1 cps	7 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	2,762 cps	1 cps	88 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	127 cps	23,795 cps	14,436 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	13,593 cps	4,135 cps	8,532 cps	154,746 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,107 cps	8 cps

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QTEGRA

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.0022 ppm	0.1017 ppm	0.0001 ppm
Concentration per Run 1	0.003 ppm	0.102 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.101 ppm	0.000 ppm
Concentration per Run 3	0.003 ppm	0.102 ppm	0.000 ppm
Concentration RSD	74.0 %	0.2 %	104.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0005 ppm	0.0038 ppm	-0.0015 ppm
Concentration per Run 1	-0.001 ppm	0.004 ppm	-0.003 ppm
Concentration per Run 2	0.000 ppm	0.002 ppm	-0.001 ppm
Concentration per Run 3	-0.001 ppm	0.005 ppm	0.000 ppm
Concentration RSD	98.8 %	40.5 %	90.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0000 ppm	-0.0034 ppm	0.0022 ppm
Concentration per Run 1	0.000 ppm	-0.004 ppm	0.002 ppm
Concentration per Run 2	0.000 ppm	-0.002 ppm	0.002 ppm
Concentration per Run 3	0.000 ppm	-0.004 ppm	0.003 ppm
Concentration RSD	1,077.6 %	46.3 %	20.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0017 ppm	0.0649 ppm	1.9009 ppm
Concentration per Run 1	0.002 ppm	0.025 ppm	1.907 ppm
Concentration per Run 2	0.002 ppm	0.088 ppm	1.907 ppm
Concentration per Run 3	0.002 ppm	0.082 ppm	1.889 ppm
Concentration RSD	10.9 %	53.6 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	2.1908 ppm	0.0107 ppm	149.1719 ppm
Concentration per Run 1	2.260 ppm	0.011 ppm	149.189 ppm
Concentration per Run 2	2.132 ppm	0.011 ppm	149.407 ppm
Concentration per Run 3	2.179 ppm	0.010 ppm	148.920 ppm
Concentration RSD	3.0 %	6.9 %	0.2 %
Concentration SD	0.1 ppm	0.0 ppm	0.2 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	163.9101 ppm	29.3138 ppm	16.2065 ppm
Concentration per Run 1	163.791 ppm	29.344 ppm	16.184 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	164.326 ppm	29.200 ppm	16.291 ppm
Concentration per Run 3	163.613 ppm	29.397 ppm	16.145 ppm
Concentration RSD	0.2 %	0.3 %	0.5 %
Concentration SD	0.4 ppm	0.1 ppm	0.1 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	58.9034 ppm	59.4788 ppm	0.0000 ppm
Concentration per Run 1	58.819 ppm	59.517 ppm	0.000 ppm
Concentration per Run 2	59.235 ppm	59.642 ppm	-0.001 ppm
Concentration per Run 3	58.657 ppm	59.278 ppm	0.001 ppm
Concentration RSD	0.5 %	0.3 %	10,504.6 %
Concentration SD	0.3 ppm	0.2 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0001 ppm	0.0007 ppm	-0.0008 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.002 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	-0.002 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	-0.003 ppm
Concentration RSD	43.0 %	38.4 %	339.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.4487 ppm	0.0040 ppm	0.0178 ppm
Concentration per Run 1	0.448 ppm	0.006 ppm	0.016 ppm
Concentration per Run 2	0.449 ppm	0.005 ppm	0.020 ppm
Concentration per Run 3	0.449 ppm	0.001 ppm	0.017 ppm
Concentration RSD	0.1 %	61.4 %	12.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0082 ppm	0.1624 ppm	0.9119 ppm
Concentration per Run 1	0.008 ppm	0.176 ppm	0.912 ppm
Concentration per Run 2	0.008 ppm	0.155 ppm	0.916 ppm
Concentration per Run 3	0.008 ppm	0.156 ppm	0.907 ppm
Concentration RSD	3.2 %	7.4 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	9.5386 ppm	-0.0004 ppm	66.4899 ppm
Concentration per Run 1	9.542 ppm	0.000 ppm	66.452 ppm
Concentration per Run 2	9.532 ppm	-0.001 ppm	66.515 ppm
Concentration per Run 3	9.541 ppm	0.000 ppm	66.503 ppm
Concentration RSD	0.1 %	46.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	87.2932 %	105.1395 %	94.2135 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	87.498 %	105.554 %	94.335 %
Concentration per Run 2	87.201 %	104.443 %	94.272 %
Concentration per Run 3	87.181 %	105.422 %	94.034 %
Concentration RSD	0.2 %	0.6 %	0.2 %
Concentration SD	0.2 %	0.6 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	96.2145 %	0.0822 ppm
Concentration per Run 1	96.430 %	0.052 ppm
Concentration per Run 2	96.048 %	0.104 ppm
Concentration per Run 3	96.166 %	0.091 ppm
Concentration RSD	0.2 %	33.4 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	648 cps	2 cps	3 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1 cps	0 cps	-16 cps	11 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1 cps	10 cps	16 cps	1,019 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	57 cps	126 cps	75,491 cps	42,498 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1,446 cps	8,409 cps	80,740 cps	5,454 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-4 cps	1 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	15,969 cps	0 cps	31 cps	17 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	51 cps	23,398 cps	19,868 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	17,211 cps	4,136 cps	8,510 cps	154,933 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,054 cps	18 cps

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Sample Type QC Analysis Date 10/15/2015 4:33:27 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.9980 ppm	0.4845 ppm	0.4986 ppm	1.0276 ppm
Concentration per Run 1	1.998 ppm	0.485 ppm	0.498 ppm	1.028 ppm
Concentration per Run 2	1.994 ppm	0.484 ppm	0.498 ppm	1.028 ppm
Concentration per Run 3	2.002 ppm	0.485 ppm	0.500 ppm	1.027 ppm
Concentration RSD	0.2 %	0.1 %	0.2 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5095 ppm	2.0313 ppm	0.9938 ppm	1.9894 ppm
Concentration per Run 1	0.509 ppm	2.028 ppm	0.994 ppm	1.990 ppm
Concentration per Run 2	0.512 ppm	2.041 ppm	0.994 ppm	1.992 ppm
Concentration per Run 3	0.507 ppm	2.025 ppm	0.994 ppm	1.986 ppm
Concentration RSD	0.5 %	0.4 %	0.0 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0775 ppm	3.0733 ppm	9.8238 ppm	9.5044 ppm
Concentration per Run 1	2.078 ppm	3.074 ppm	9.891 ppm	9.487 ppm
Concentration per Run 2	2.083 ppm	3.077 ppm	9.829 ppm	9.511 ppm
Concentration per Run 3	2.071 ppm	3.068 ppm	9.751 ppm	9.515 ppm
Concentration RSD	0.3 %	0.1 %	0.7 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.7117 ppm	1.4299 ppm	50.6698 ppm	55.6797 ppm
Concentration per Run 1	10.762 ppm	1.427 ppm	50.601 ppm	55.653 ppm
Concentration per Run 2	10.682 ppm	1.433 ppm	50.818 ppm	55.771 ppm
Concentration per Run 3	10.691 ppm	1.430 ppm	50.591 ppm	55.616 ppm
Concentration RSD	0.4 %	0.2 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.3355 ppm	51.0042 ppm	48.1476 ppm	48.7350 ppm
Concentration per Run 1	10.271 ppm	50.926 ppm	48.143 ppm	48.525 ppm
Concentration per Run 2	10.412 ppm	51.121 ppm	48.267 ppm	48.831 ppm
Concentration per Run 3	10.324 ppm	50.966 ppm	48.033 ppm	48.849 ppm
Concentration RSD	0.7 %	0.2 %	0.2 %	0.4 %
Concentration SD	0.1 ppm	0.1 ppm	0.1 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.9583 ppm	0.1990 ppm	1.0222 ppm	2.0425 ppm
Concentration per Run 1	1.960 ppm	0.199 ppm	1.022 ppm	2.042 ppm
Concentration per Run 2	1.960 ppm	0.200 ppm	1.025 ppm	2.045 ppm
Concentration per Run 3	1.955 ppm	0.198 ppm	1.020 ppm	2.040 ppm
Concentration RSD	0.2 %	0.4 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.0129 ppm	0.9814 ppm	1.0713 ppm	0.4481 ppm
Concentration per Run 1	1.012 ppm	0.977 ppm	1.073 ppm	0.448 ppm
Concentration per Run 2	1.014 ppm	0.983 ppm	1.072 ppm	0.449 ppm
Concentration per Run 3	1.013 ppm	0.985 ppm	1.069 ppm	0.447 ppm
Concentration RSD	0.1 %	0.4 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.9339 ppm	1.0219 ppm	1.9823 ppm	1.9982 ppm
Concentration per Run 1	1.929 ppm	1.021 ppm	1.981 ppm	1.996 ppm
Concentration per Run 2	1.929 ppm	1.024 ppm	1.980 ppm	2.000 ppm
Concentration per Run 3	1.944 ppm	1.020 ppm	1.986 ppm	1.998 ppm
Concentration RSD	0.4 %	0.2 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.8089 ppm	89.2189 %	104.4131 %	95.3864 %
Concentration per Run 1	4.798 ppm	89.211 %	104.564 %	95.379 %
Concentration per Run 2	4.816 ppm	89.181 %	104.011 %	95.272 %
Concentration per Run 3	4.813 ppm	89.265 %	104.664 %	95.509 %
Concentration RSD	0.2 %	0.0 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	0.0 %	0.4 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	98.7288 %	0.1053 ppm
Concentration per Run 1	98.775 %	0.089 ppm
Concentration per Run 2	98.819 %	0.106 ppm
Concentration per Run 3	98.593 %	0.121 ppm
Concentration RSD	0.1 %	15.3 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	818 cps	3,506 cps	4,241 cps	8,597 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	365 cps	584 cps	8,650 cps	1,363 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,898 cps	16,058 cps	726 cps	5,612 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	308 cps	14,482 cps	28,357 cps	15,946 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	563 cps	29,380 cps	72,820 cps	4,929 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,035 cps	3,405 cps	5,226 cps	1,201 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,531 cps	493 cps	1,900 cps	887 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	624 cps	28,938 cps	4,683 cps	2,653 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,418 cps	4,228 cps	8,452 cps	156,862 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,474 cps	27 cps

Comprehensive sample report

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QTEGRA

CCB

Sample Type QC Analysis Date 10/15/2015 4:36:14 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0035 ppm	0.0001 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 1	0.003 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.003 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.004 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	13.5 %	64.0 %	277.4 %	57.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0002 ppm	0.0021 ppm	0.0002 ppm	-0.0012 ppm
Concentration per Run 1	0.000 ppm	0.003 ppm	0.000 ppm	-0.004 ppm
Concentration per Run 2	0.000 ppm	0.003 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	100.1 %	57.5 %	149.8 %	205.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0044 ppm	0.0011 ppm	0.0391 ppm	0.0007 ppm
Concentration per Run 1	0.004 ppm	0.001 ppm	0.007 ppm	0.001 ppm
Concentration per Run 2	0.004 ppm	0.001 ppm	0.044 ppm	0.002 ppm
Concentration per Run 3	0.005 ppm	0.001 ppm	0.066 ppm	-0.001 ppm
Concentration RSD	9.9 %	7.5 %	77.4 %	192.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0229 ppm	-0.0009 ppm	0.0105 ppm	0.0288 ppm
Concentration per Run 1	0.030 ppm	-0.002 ppm	0.007 ppm	0.038 ppm
Concentration per Run 2	0.097 ppm	0.000 ppm	0.010 ppm	0.024 ppm
Concentration per Run 3	-0.058 ppm	-0.001 ppm	0.014 ppm	0.025 ppm
Concentration RSD	338.8 %	107.1 %	35.0 %	26.9 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0078 ppm	0.1634 ppm	0.0178 ppm	-0.5130 ppm
Concentration per Run 1	-0.001 ppm	0.168 ppm	0.023 ppm	-0.491 ppm
Concentration per Run 2	0.003 ppm	0.141 ppm	0.022 ppm	-0.657 ppm
Concentration per Run 3	0.021 ppm	0.181 ppm	0.009 ppm	-0.391 ppm
Concentration RSD	150.6 %	12.3 %	45.1 %	26.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0066 ppm	-0.0001 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 1	0.007 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.005 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.008 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	23.6 %	224.3 %	103.2 %	213.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0017 ppm	0.0007 ppm
Concentration per Run 1	0.000 ppm	0.003 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	-0.004 ppm	-0.004 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	-0.002 ppm	0.001 ppm
Concentration RSD	28.4 %	3,649.0 %	119.3 %	30.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0032 ppm	0.0002 ppm	0.0002 ppm	0.0007 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	-0.003 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	-0.006 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	75.2 %	93.1 %	72.2 %	6.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0120 ppm	101.9833 %	104.5701 %	102.1037 %
Concentration per Run 1	0.011 ppm	102.730 %	105.300 %	102.004 %
Concentration per Run 2	0.013 ppm	101.972 %	103.289 %	102.019 %
Concentration per Run 3	0.011 ppm	101.247 %	105.121 %	102.288 %
Concentration RSD	8.2 %	0.7 %	1.1 %	0.2 %
Concentration SD	0.0 ppm	0.7 %	1.1 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	104.0103 %	0.0584 ppm
Concentration per Run 1	104.690 %	0.029 ppm
Concentration per Run 2	104.028 %	0.058 ppm
Concentration per Run 3	103.312 %	0.088 ppm
Concentration RSD	0.7 %	50.8 %
Concentration SD	0.7 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	4 cps	2 cps	1 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-16 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	6 cps	9 cps	15 cps	3 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	18 cps	105 cps	34 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	22 cps	-24 cps	-67 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	5 cps	-3 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	18 cps	-2 cps	-1 cps	5 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-20 cps	54 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2 cps	4,832 cps	8,464 cps	167,908 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,355 cps	13 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.0057 ppm	0.0974 ppm	0.0004 ppm
Concentration per Run 1	0.007 ppm	0.098 ppm	0.001 ppm
Concentration per Run 2	0.004 ppm	0.097 ppm	0.000 ppm
Concentration per Run 3	0.006 ppm	0.097 ppm	0.000 ppm
Concentration RSD	23.7 %	0.4 %	30.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0043 ppm	-0.0001 ppm
Concentration per Run 1	0.000 ppm	0.006 ppm	-0.002 ppm
Concentration per Run 2	0.000 ppm	0.003 ppm	0.003 ppm
Concentration per Run 3	0.000 ppm	0.004 ppm	-0.001 ppm
Concentration RSD	43.3 %	32.9 %	2,326.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	-0.0008 ppm	-0.0072 ppm	0.0012 ppm
Concentration per Run 1	0.000 ppm	-0.009 ppm	0.001 ppm
Concentration per Run 2	-0.001 ppm	-0.012 ppm	0.002 ppm
Concentration per Run 3	-0.001 ppm	0.000 ppm	0.001 ppm
Concentration RSD	77.8 %	88.1 %	26.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0019 ppm	0.4212 ppm	1.2807 ppm
Concentration per Run 1	0.002 ppm	0.435 ppm	1.276 ppm
Concentration per Run 2	0.002 ppm	0.411 ppm	1.286 ppm
Concentration per Run 3	0.002 ppm	0.418 ppm	1.280 ppm
Concentration RSD	1.4 %	2.9 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	1.4289 ppm	0.0653 ppm	158.3158 ppm
Concentration per Run 1	1.428 ppm	0.066 ppm	157.456 ppm
Concentration per Run 2	1.525 ppm	0.065 ppm	158.583 ppm
Concentration per Run 3	1.334 ppm	0.065 ppm	158.908 ppm
Concentration RSD	6.7 %	1.2 %	0.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.8 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	174.0484 ppm	74.0138 ppm	21.9736 ppm
Concentration per Run 1	173.257 ppm	73.364 ppm	21.890 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	173.975 ppm	74.652 ppm	21.893 ppm
Concentration per Run 3	174.913 ppm	74.025 ppm	22.137 ppm
Concentration RSD	0.5 %	0.9 %	0.6 %
Concentration SD	0.8 ppm	0.6 ppm	0.1 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	203.3554 ppm	216.4773 ppm	0.0018 ppm
Concentration per Run 1	199.364 ppm	216.135 ppm	0.003 ppm
Concentration per Run 2	203.999 ppm	215.840 ppm	0.000 ppm
Concentration per Run 3	206.703 ppm	217.457 ppm	0.002 ppm
Concentration RSD	1.8 %	0.4 %	74.4 %
Concentration SD	3.7 ppm	0.9 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0001 ppm	0.0006 ppm	-0.0009 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	-0.001 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	0.001 ppm
Concentration RSD	122.8 %	23.8 %	163.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.1444 ppm	0.0031 ppm	0.0332 ppm
Concentration per Run 1	0.145 ppm	0.007 ppm	0.030 ppm
Concentration per Run 2	0.145 ppm	-0.002 ppm	0.036 ppm
Concentration per Run 3	0.144 ppm	0.004 ppm	0.033 ppm
Concentration RSD	0.5 %	150.5 %	9.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0000 ppm	0.4127 ppm	1.5761 ppm
Concentration per Run 1	0.000 ppm	0.412 ppm	1.576 ppm
Concentration per Run 2	0.000 ppm	0.406 ppm	1.571 ppm
Concentration per Run 3	0.000 ppm	0.420 ppm	1.581 ppm
Concentration RSD	1,827.1 %	1.7 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	5.1034 ppm	0.0004 ppm	81.1779 ppm
Concentration per Run 1	5.120 ppm	0.000 ppm	81.354 ppm
Concentration per Run 2	5.084 ppm	0.001 ppm	81.333 ppm
Concentration per Run 3	5.106 ppm	0.001 ppm	80.846 ppm
Concentration RSD	0.4 %	58.2 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.3 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	82.8335 %	102.6273 %	90.6415 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	82.870 %	104.259 %	90.713 %
Concentration per Run 2	82.875 %	102.074 %	90.596 %
Concentration per Run 3	82.755 %	101.549 %	90.615 %
Concentration RSD	0.1 %	1.4 %	0.1 %
Concentration SD	0.1 %	1.4 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	93.9434 %	0.0477 ppm
Concentration per Run 1	93.995 %	0.028 ppm
Concentration per Run 2	93.963 %	0.026 ppm
Concentration per Run 3	93.872 %	0.089 ppm
Concentration RSD	0.1 %	75.0 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	606 cps	4 cps	7 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1 cps	0 cps	-21 cps	9 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-1 cps	11 cps	39 cps	671 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	37 cps	611 cps	78,195 cps	44,045 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	3,564 cps	11,153 cps	272,164 cps	19,414 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	-4 cps	1 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	4,953 cps	-1 cps	54 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	121 cps	39,494 cps	10,249 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	20,517 cps	3,925 cps	8,307 cps	149,059 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	15,675 cps	8 cps

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L793892-05 WG821543

Sample Type UNKNOWN Analysis Date 10/15/2015 4:42:35 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.0057 ppm	0.1010 ppm	0.0001 ppm
Concentration per Run 1	0.007 ppm	0.101 ppm	0.000 ppm
Concentration per Run 2	0.006 ppm	0.101 ppm	0.000 ppm
Concentration per Run 3	0.004 ppm	0.101 ppm	0.000 ppm
Concentration RSD	20.6 %	0.3 %	143.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0001 ppm	0.0046 ppm	-0.0014 ppm
Concentration per Run 1	0.001 ppm	0.005 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.005 ppm	-0.003 ppm
Concentration per Run 3	0.000 ppm	0.004 ppm	-0.001 ppm
Concentration RSD	645.8 %	19.9 %	126.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	-0.0005 ppm	-0.0004 ppm	0.0024 ppm
Concentration per Run 1	-0.001 ppm	-0.002 ppm	0.003 ppm
Concentration per Run 2	-0.001 ppm	0.001 ppm	0.002 ppm
Concentration per Run 3	0.000 ppm	-0.001 ppm	0.003 ppm
Concentration RSD	117.2 %	428.3 %	8.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0023 ppm	0.0599 ppm	1.8910 ppm
Concentration per Run 1	0.002 ppm	0.058 ppm	1.901 ppm
Concentration per Run 2	0.002 ppm	0.059 ppm	1.891 ppm
Concentration per Run 3	0.002 ppm	0.063 ppm	1.881 ppm
Concentration RSD	3.1 %	4.6 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	2.1422 ppm	0.0109 ppm	149.8841 ppm
Concentration per Run 1	2.224 ppm	0.012 ppm	150.060 ppm
Concentration per Run 2	2.036 ppm	0.010 ppm	149.504 ppm
Concentration per Run 3	2.167 ppm	0.011 ppm	150.088 ppm
Concentration RSD	4.5 %	6.4 %	0.2 %
Concentration SD	0.1 ppm	0.0 ppm	0.3 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	164.6044 ppm	29.4438 ppm	16.4462 ppm
Concentration per Run 1	164.908 ppm	29.450 ppm	16.418 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	164.204 ppm	29.299 ppm	16.420 ppm
Concentration per Run 3	164.701 ppm	29.583 ppm	16.500 ppm
Concentration RSD	0.2 %	0.5 %	0.3 %
Concentration SD	0.4 ppm	0.1 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	59.3135 ppm	60.0492 ppm	0.0015 ppm
Concentration per Run 1	59.483 ppm	60.149 ppm	0.001 ppm
Concentration per Run 2	59.197 ppm	59.997 ppm	0.001 ppm
Concentration per Run 3	59.260 ppm	60.001 ppm	0.003 ppm
Concentration RSD	0.3 %	0.1 %	81.3 %
Concentration SD	0.1 ppm	0.1 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0001 ppm	0.0007 ppm	0.0007 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	0.002 ppm
Concentration RSD	50.5 %	11.2 %	114.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.4472 ppm	0.0012 ppm	0.0199 ppm
Concentration per Run 1	0.449 ppm	0.002 ppm	0.020 ppm
Concentration per Run 2	0.447 ppm	0.000 ppm	0.020 ppm
Concentration per Run 3	0.446 ppm	0.001 ppm	0.020 ppm
Concentration RSD	0.3 %	71.7 %	1.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0077 ppm	0.1508 ppm	0.9176 ppm
Concentration per Run 1	0.007 ppm	0.155 ppm	0.919 ppm
Concentration per Run 2	0.008 ppm	0.144 ppm	0.919 ppm
Concentration per Run 3	0.008 ppm	0.153 ppm	0.915 ppm
Concentration RSD	5.7 %	4.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	9.4937 ppm	-0.0003 ppm	67.0384 ppm
Concentration per Run 1	9.504 ppm	0.000 ppm	66.917 ppm
Concentration per Run 2	9.477 ppm	-0.001 ppm	67.083 ppm
Concentration per Run 3	9.500 ppm	0.000 ppm	67.115 ppm
Concentration RSD	0.2 %	135.4 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	87.2590 %	104.1194 %	94.1614 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	87.392 %	104.177 %	94.100 %
Concentration per Run 2	87.276 %	104.542 %	94.268 %
Concentration per Run 3	87.108 %	103.640 %	94.116 %
Concentration RSD	0.2 %	0.4 %	0.1 %
Concentration SD	0.1 %	0.5 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	96.3094 %	0.0593 ppm
Concentration per Run 1	96.449 %	0.065 ppm
Concentration per Run 2	96.314 %	0.065 ppm
Concentration per Run 3	96.165 %	0.048 ppm
Concentration RSD	0.1 %	16.5 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	644 cps	2 cps	6 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1 cps	0 cps	-20 cps	13 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1 cps	13 cps	16 cps	1,004 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	56 cps	126 cps	75,115 cps	42,264 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1,439 cps	8,451 cps	80,515 cps	5,453 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	-4 cps	1 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	15,907 cps	-2 cps	34 cps	16 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	47 cps	23,317 cps	19,763 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	17,370 cps	4,135 cps	8,428 cps	154,847 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,070 cps	11 cps

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QTEGRA

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.0082 ppm	0.0782 ppm	0.0003 ppm
Concentration per Run 1	0.007 ppm	0.079 ppm	0.000 ppm
Concentration per Run 2	0.009 ppm	0.078 ppm	0.000 ppm
Concentration per Run 3	0.008 ppm	0.078 ppm	0.000 ppm
Concentration RSD	15.2 %	0.5 %	27.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0011 ppm	0.0157 ppm	-0.0002 ppm
Concentration per Run 1	0.002 ppm	0.015 ppm	-0.001 ppm
Concentration per Run 2	0.001 ppm	0.015 ppm	-0.003 ppm
Concentration per Run 3	0.001 ppm	0.017 ppm	0.003 ppm
Concentration RSD	51.2 %	9.5 %	1,621.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0018 ppm	0.0010 ppm	0.0037 ppm
Concentration per Run 1	0.002 ppm	-0.003 ppm	0.004 ppm
Concentration per Run 2	0.001 ppm	0.003 ppm	0.003 ppm
Concentration per Run 3	0.002 ppm	0.003 ppm	0.004 ppm
Concentration RSD	29.5 %	317.1 %	13.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0190 ppm	0.8049 ppm	4.8252 ppm
Concentration per Run 1	0.019 ppm	0.834 ppm	4.826 ppm
Concentration per Run 2	0.019 ppm	0.775 ppm	4.832 ppm
Concentration per Run 3	0.019 ppm	0.806 ppm	4.818 ppm
Concentration RSD	1.3 %	3.7 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	5.4650 ppm	0.0124 ppm	114.4601 ppm
Concentration per Run 1	5.416 ppm	0.013 ppm	114.632 ppm
Concentration per Run 2	5.499 ppm	0.012 ppm	114.755 ppm
Concentration per Run 3	5.481 ppm	0.012 ppm	113.994 ppm
Concentration RSD	0.8 %	2.6 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.4 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	125.6344 ppm	12.3836 ppm	6.4859 ppm
Concentration per Run 1	125.925 ppm	12.373 ppm	6.504 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	125.725 ppm	12.352 ppm	6.464 ppm
Concentration per Run 3	125.254 ppm	12.426 ppm	6.490 ppm
Concentration RSD	0.3 %	0.3 %	0.3 %
Concentration SD	0.3 ppm	0.0 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	4.3375 ppm	4.1393 ppm	-0.0001 ppm
Concentration per Run 1	4.339 ppm	4.162 ppm	-0.002 ppm
Concentration per Run 2	4.359 ppm	4.221 ppm	0.001 ppm
Concentration per Run 3	4.315 ppm	4.034 ppm	0.000 ppm
Concentration RSD	0.5 %	2.3 %	1,505.6 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0001 ppm	0.0010 ppm	0.0000 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	-0.001 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	0.000 ppm
Concentration RSD	175.6 %	19.0 %	1,878.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.8802 ppm	0.0032 ppm	0.0314 ppm
Concentration per Run 1	0.882 ppm	0.005 ppm	0.031 ppm
Concentration per Run 2	0.882 ppm	0.000 ppm	0.031 ppm
Concentration per Run 3	0.878 ppm	0.005 ppm	0.033 ppm
Concentration RSD	0.3 %	91.1 %	3.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0007 ppm	0.1384 ppm	0.2636 ppm
Concentration per Run 1	0.000 ppm	0.134 ppm	0.264 ppm
Concentration per Run 2	0.001 ppm	0.138 ppm	0.264 ppm
Concentration per Run 3	0.001 ppm	0.142 ppm	0.263 ppm
Concentration RSD	40.4 %	2.9 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	7.3504 ppm	0.0004 ppm	14.3439 ppm
Concentration per Run 1	7.342 ppm	0.000 ppm	14.326 ppm
Concentration per Run 2	7.362 ppm	0.000 ppm	14.364 ppm
Concentration per Run 3	7.347 ppm	0.001 ppm	14.341 ppm
Concentration RSD	0.1 %	131.0 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	91.5921 %	103.8954 %	96.6310 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	91.560 %	103.821 %	96.562 %
Concentration per Run 2	91.578 %	103.853 %	96.563 %
Concentration per Run 3	91.638 %	104.011 %	96.768 %
Concentration RSD	0.0 %	0.1 %	0.1 %
Concentration SD	0.0 %	0.1 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	99.6699 %	0.0303 ppm
Concentration per Run 1	99.794 %	-0.001 ppm
Concentration per Run 2	99.628 %	0.041 ppm
Concentration per Run 3	99.587 %	0.052 ppm
Concentration RSD	0.1 %	92.6 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-1 cps	517 cps	4 cps	15 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	9 cps	0 cps	-2 cps	14 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3 cps	93 cps	64 cps	2,553 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	141 cps	140 cps	57,262 cps	32,195 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	604 cps	3,282 cps	5,829 cps	361 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-3 cps	3 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	32,117 cps	-1 cps	52 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	43 cps	6,665 cps	15,715 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	3,845 cps	4,340 cps	8,410 cps	158,908 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,631 cps	3 cps

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QTEGRA

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.0043 ppm	0.0605 ppm	0.0002 ppm
Concentration per Run 1	0.004 ppm	0.060 ppm	0.000 ppm
Concentration per Run 2	0.004 ppm	0.061 ppm	0.000 ppm
Concentration per Run 3	0.004 ppm	0.060 ppm	0.000 ppm
Concentration RSD	4.2 %	0.4 %	30.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0004 ppm	0.0049 ppm	0.0000 ppm
Concentration per Run 1	-0.001 ppm	0.007 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.003 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.004 ppm	0.000 ppm
Concentration RSD	119.2 %	44.6 %	288.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	-0.0003 ppm	-0.0017 ppm	0.0078 ppm
Concentration per Run 1	0.000 ppm	-0.006 ppm	0.007 ppm
Concentration per Run 2	0.000 ppm	0.007 ppm	0.008 ppm
Concentration per Run 3	-0.001 ppm	-0.006 ppm	0.008 ppm
Concentration RSD	205.6 %	438.0 %	6.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0054 ppm	0.4759 ppm	0.2764 ppm
Concentration per Run 1	0.005 ppm	0.522 ppm	0.274 ppm
Concentration per Run 2	0.005 ppm	0.439 ppm	0.281 ppm
Concentration per Run 3	0.005 ppm	0.466 ppm	0.274 ppm
Concentration RSD	0.7 %	8.9 %	1.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.2850 ppm	0.0356 ppm	183.1669 ppm
Concentration per Run 1	0.279 ppm	0.036 ppm	183.997 ppm
Concentration per Run 2	0.243 ppm	0.034 ppm	183.044 ppm
Concentration per Run 3	0.333 ppm	0.037 ppm	182.459 ppm
Concentration RSD	15.9 %	3.4 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.8 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	201.5341 ppm	53.6248 ppm	3.5833 ppm
Concentration per Run 1	202.036 ppm	53.893 ppm	3.614 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	201.584 ppm	53.545 ppm	3.588 ppm
Concentration per Run 3	200.983 ppm	53.436 ppm	3.547 ppm
Concentration RSD	0.3 %	0.4 %	0.9 %
Concentration SD	0.5 ppm	0.2 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	82.8380 ppm	83.8464 ppm	-0.0010 ppm
Concentration per Run 1	83.140 ppm	84.351 ppm	-0.002 ppm
Concentration per Run 2	82.647 ppm	83.284 ppm	0.000 ppm
Concentration per Run 3	82.727 ppm	83.904 ppm	0.000 ppm
Concentration RSD	0.3 %	0.6 %	99.9 %
Concentration SD	0.3 ppm	0.5 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0000 ppm	0.0016 ppm	-0.0001 ppm
Concentration per Run 1	0.000 ppm	0.002 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	-0.001 ppm
Concentration per Run 3	0.000 ppm	0.002 ppm	0.001 ppm
Concentration RSD	512.7 %	14.9 %	916.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.4461 ppm	0.0018 ppm	0.0375 ppm
Concentration per Run 1	0.448 ppm	0.001 ppm	0.038 ppm
Concentration per Run 2	0.446 ppm	0.000 ppm	0.036 ppm
Concentration per Run 3	0.444 ppm	0.004 ppm	0.039 ppm
Concentration RSD	0.4 %	96.8 %	3.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	-0.0004 ppm	0.2907 ppm	0.3512 ppm
Concentration per Run 1	0.000 ppm	0.286 ppm	0.351 ppm
Concentration per Run 2	0.000 ppm	0.308 ppm	0.350 ppm
Concentration per Run 3	0.000 ppm	0.278 ppm	0.352 ppm
Concentration RSD	27.8 %	5.5 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	7.6335 ppm	-0.0003 ppm	99.9742 ppm
Concentration per Run 1	7.635 ppm	0.000 ppm	99.800 ppm
Concentration per Run 2	7.662 ppm	0.000 ppm	100.393 ppm
Concentration per Run 3	7.604 ppm	0.000 ppm	99.729 ppm
Concentration RSD	0.4 %	110.6 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.4 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	85.3092 %	102.8746 %	92.3881 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	85.473 %	102.346 %	92.185 %
Concentration per Run 2	84.927 %	102.944 %	92.613 %
Concentration per Run 3	85.528 %	103.334 %	92.366 %
Concentration RSD	0.4 %	0.5 %	0.2 %
Concentration SD	0.3 %	0.5 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	94.7594 %	0.0429 ppm
Concentration per Run 1	94.939 %	0.057 ppm
Concentration per Run 2	94.431 %	0.011 ppm
Concentration per Run 3	94.908 %	0.061 ppm
Concentration RSD	0.3 %	64.3 %
Concentration SD	0.3 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	381 cps	3 cps	4 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	2 cps	0 cps	-18 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	10 cps	27 cps	42 cps	147 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	8 cps	346 cps	90,675 cps	51,122 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2,589 cps	1,764 cps	111,123 cps	7,528 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-3 cps	5 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	15,570 cps	-1 cps	61 cps	2 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	86 cps	8,801 cps	15,601 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	25,488 cps	4,042 cps	8,327 cps	151,931 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	15,811 cps	7 cps

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QTEGRA

L793892-10 WG821543

Sample Type UNKNOWN Analysis Date 10/15/2015 4:54:51 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.0034 ppm	0.0519 ppm	0.0001 ppm
Concentration per Run 1	0.002 ppm	0.052 ppm	0.000 ppm
Concentration per Run 2	0.005 ppm	0.052 ppm	0.000 ppm
Concentration per Run 3	0.003 ppm	0.052 ppm	0.000 ppm
Concentration RSD	56.4 %	0.1 %	116.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0007 ppm	0.0038 ppm	-0.0032 ppm
Concentration per Run 1	-0.001 ppm	0.004 ppm	-0.002 ppm
Concentration per Run 2	-0.001 ppm	0.004 ppm	-0.007 ppm
Concentration per Run 3	-0.001 ppm	0.004 ppm	-0.001 ppm
Concentration RSD	22.0 %	1.2 %	91.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	-0.0014 ppm	-0.0034 ppm	0.0012 ppm
Concentration per Run 1	-0.002 ppm	-0.003 ppm	0.001 ppm
Concentration per Run 2	-0.001 ppm	-0.003 ppm	0.002 ppm
Concentration per Run 3	-0.001 ppm	-0.004 ppm	0.001 ppm
Concentration RSD	67.5 %	8.7 %	37.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0014 ppm	0.1378 ppm	0.8416 ppm
Concentration per Run 1	0.001 ppm	0.147 ppm	0.842 ppm
Concentration per Run 2	0.001 ppm	0.122 ppm	0.843 ppm
Concentration per Run 3	0.002 ppm	0.145 ppm	0.840 ppm
Concentration RSD	5.0 %	10.0 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	1.0130 ppm	0.0409 ppm	173.9873 ppm
Concentration per Run 1	1.026 ppm	0.040 ppm	174.389 ppm
Concentration per Run 2	1.083 ppm	0.043 ppm	173.999 ppm
Concentration per Run 3	0.930 ppm	0.040 ppm	173.574 ppm
Concentration RSD	7.6 %	3.8 %	0.2 %
Concentration SD	0.1 ppm	0.0 ppm	0.4 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	191.4600 ppm	58.7643 ppm	5.5800 ppm
Concentration per Run 1	191.628 ppm	58.963 ppm	5.608 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	191.531 ppm	58.792 ppm	5.591 ppm
Concentration per Run 3	191.221 ppm	58.538 ppm	5.541 ppm
Concentration RSD	0.1 %	0.4 %	0.6 %
Concentration SD	0.2 ppm	0.2 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	104.6592 ppm	106.9218 ppm	0.0002 ppm
Concentration per Run 1	104.723 ppm	106.944 ppm	-0.003 ppm
Concentration per Run 2	104.723 ppm	107.234 ppm	0.002 ppm
Concentration per Run 3	104.531 ppm	106.588 ppm	0.002 ppm
Concentration RSD	0.1 %	0.3 %	1,563.4 %
Concentration SD	0.1 ppm	0.3 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	1,459.3 %	166.4 %	314.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.0313 ppm	0.0043 ppm	0.0212 ppm
Concentration per Run 1	0.031 ppm	0.000 ppm	0.022 ppm
Concentration per Run 2	0.031 ppm	0.003 ppm	0.022 ppm
Concentration per Run 3	0.031 ppm	0.010 ppm	0.020 ppm
Concentration RSD	0.2 %	114.2 %	6.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	-0.0004 ppm	0.1473 ppm	0.4045 ppm
Concentration per Run 1	-0.001 ppm	0.147 ppm	0.405 ppm
Concentration per Run 2	0.000 ppm	0.149 ppm	0.404 ppm
Concentration per Run 3	0.000 ppm	0.146 ppm	0.405 ppm
Concentration RSD	57.6 %	1.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	7.9046 ppm	0.0005 ppm	56.4315 ppm
Concentration per Run 1	7.888 ppm	0.001 ppm	56.575 ppm
Concentration per Run 2	7.924 ppm	0.001 ppm	56.384 ppm
Concentration per Run 3	7.902 ppm	0.000 ppm	56.336 ppm
Concentration RSD	0.2 %	17.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	84.5423 %	102.4759 %	92.0041 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	84.549 %	102.420 %	92.094 %
Concentration per Run 2	84.441 %	102.418 %	91.949 %
Concentration per Run 3	84.637 %	102.589 %	91.969 %
Concentration RSD	0.1 %	0.1 %	0.1 %
Concentration SD	0.1 %	0.1 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	94.7297 %	0.0473 ppm
Concentration per Run 1	94.751 %	0.027 ppm
Concentration per Run 2	94.621 %	0.058 ppm
Concentration per Run 3	94.817 %	0.056 ppm
Concentration RSD	0.1 %	36.7 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	327 cps	2 cps	1 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1 cps	0 cps	-26 cps	11 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-1 cps	9 cps	20 cps	441 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	26 cps	392 cps	85,803 cps	48,380 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2,826 cps	2,776 cps	139,865 cps	9,567 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-2 cps	-2 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	1,103 cps	0 cps	35 cps	2 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	45 cps	10,103 cps	16,086 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	14,382 cps	4,006 cps	8,295 cps	151,299 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	15,806 cps	8 cps

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QTEGRA

L793892-11 WG821543

Sample Type UNKNOWN Analysis Date 10/15/2015 4:57:57 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.0049 ppm	0.0448 ppm	-0.0001 ppm
Concentration per Run 1	0.004 ppm	0.045 ppm	0.000 ppm
Concentration per Run 2	0.007 ppm	0.045 ppm	0.000 ppm
Concentration per Run 3	0.004 ppm	0.045 ppm	0.000 ppm
Concentration RSD	36.1 %	0.4 %	136.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0001 ppm	0.0036 ppm	-0.0033 ppm
Concentration per Run 1	0.000 ppm	0.002 ppm	-0.002 ppm
Concentration per Run 2	0.000 ppm	0.005 ppm	-0.005 ppm
Concentration per Run 3	0.000 ppm	0.004 ppm	-0.002 ppm
Concentration RSD	57.9 %	48.6 %	52.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	-0.0009 ppm	-0.0015 ppm	0.0042 ppm
Concentration per Run 1	0.000 ppm	-0.009 ppm	0.004 ppm
Concentration per Run 2	-0.001 ppm	0.003 ppm	0.004 ppm
Concentration per Run 3	-0.002 ppm	0.002 ppm	0.004 ppm
Concentration RSD	96.5 %	474.9 %	9.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0050 ppm	0.3775 ppm	0.3979 ppm
Concentration per Run 1	0.005 ppm	0.336 ppm	0.402 ppm
Concentration per Run 2	0.005 ppm	0.357 ppm	0.392 ppm
Concentration per Run 3	0.005 ppm	0.440 ppm	0.399 ppm
Concentration RSD	2.0 %	14.6 %	1.4 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.4022 ppm	0.5255 ppm	95.8444 ppm
Concentration per Run 1	0.387 ppm	0.529 ppm	96.541 ppm
Concentration per Run 2	0.486 ppm	0.523 ppm	95.147 ppm
Concentration per Run 3	0.334 ppm	0.524 ppm	95.845 ppm
Concentration RSD	19.1 %	0.6 %	0.7 %
Concentration SD	0.1 ppm	0.0 ppm	0.7 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	105.4854 ppm	33.9559 ppm	4.4787 ppm
Concentration per Run 1	106.173 ppm	34.014 ppm	4.497 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	104.897 ppm	33.735 ppm	4.423 ppm
Concentration per Run 3	105.386 ppm	34.118 ppm	4.516 ppm
Concentration RSD	0.6 %	0.6 %	1.1 %
Concentration SD	0.6 ppm	0.2 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	34.0700 ppm	34.1698 ppm	-0.0006 ppm
Concentration per Run 1	34.314 ppm	34.299 ppm	-0.001 ppm
Concentration per Run 2	33.883 ppm	33.912 ppm	-0.001 ppm
Concentration per Run 3	34.013 ppm	34.299 ppm	0.000 ppm
Concentration RSD	0.6 %	0.7 %	140.2 %
Concentration SD	0.2 ppm	0.2 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0001 ppm	0.0017 ppm	0.0003 ppm
Concentration per Run 1	0.000 ppm	0.002 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.002 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.002 ppm	0.002 ppm
Concentration RSD	51.2 %	14.5 %	352.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.0622 ppm	0.0050 ppm	0.0275 ppm
Concentration per Run 1	0.062 ppm	0.006 ppm	0.034 ppm
Concentration per Run 2	0.063 ppm	0.000 ppm	0.024 ppm
Concentration per Run 3	0.063 ppm	0.009 ppm	0.024 ppm
Concentration RSD	0.8 %	92.6 %	19.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0031 ppm	0.1390 ppm	0.2626 ppm
Concentration per Run 1	0.003 ppm	0.140 ppm	0.263 ppm
Concentration per Run 2	0.003 ppm	0.137 ppm	0.262 ppm
Concentration per Run 3	0.003 ppm	0.140 ppm	0.263 ppm
Concentration RSD	10.1 %	0.9 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	4.6929 ppm	0.0000 ppm	56.2214 ppm
Concentration per Run 1	4.695 ppm	0.000 ppm	56.183 ppm
Concentration per Run 2	4.686 ppm	0.000 ppm	56.235 ppm
Concentration per Run 3	4.698 ppm	0.001 ppm	56.246 ppm
Concentration RSD	0.1 %	1,202.3 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	89.5440 %	103.9652 %	95.3292 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	89.537 %	103.517 %	95.376 %
Concentration per Run 2	89.262 %	104.725 %	95.025 %
Concentration per Run 3	89.832 %	103.653 %	95.587 %
Concentration RSD	0.3 %	0.6 %	0.3 %
Concentration SD	0.3 %	0.7 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	98.0599 %	0.0528 ppm
Concentration per Run 1	98.074 %	0.083 ppm
Concentration per Run 2	97.820 %	0.030 ppm
Concentration per Run 3	98.286 %	0.046 ppm
Concentration RSD	0.2 %	51.7 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	293 cps	1 cps	8 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1 cps	0 cps	-23 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	4 cps	26 cps	36 cps	213 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	11 cps	4,788 cps	47,996 cps	27,053 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1,656 cps	2,246 cps	46,157 cps	3,091 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-4 cps	6 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	2,254 cps	0 cps	46 cps	8 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	44 cps	6,644 cps	9,916 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	14,832 cps	4,243 cps	8,415 cps	156,768 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,362 cps	9 cps

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QTEGRA

L793892-12 WG821543

Sample Type UNKNOWN Analysis Date 10/15/2015 5:01:04 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.0045 ppm	0.1097 ppm	0.0001 ppm
Concentration per Run 1	0.002 ppm	0.110 ppm	0.000 ppm
Concentration per Run 2	0.007 ppm	0.110 ppm	0.000 ppm
Concentration per Run 3	0.004 ppm	0.109 ppm	0.000 ppm
Concentration RSD	54.9 %	0.5 %	98.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0005 ppm	0.0048 ppm	0.0012 ppm
Concentration per Run 1	-0.001 ppm	0.006 ppm	0.003 ppm
Concentration per Run 2	0.000 ppm	0.005 ppm	-0.002 ppm
Concentration per Run 3	0.000 ppm	0.003 ppm	0.003 ppm
Concentration RSD	51.7 %	30.8 %	214.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	-0.0004 ppm	-0.0009 ppm	0.0013 ppm
Concentration per Run 1	-0.001 ppm	0.003 ppm	0.002 ppm
Concentration per Run 2	0.000 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 3	-0.001 ppm	-0.005 ppm	0.001 ppm
Concentration RSD	101.5 %	468.5 %	38.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0023 ppm	0.1718 ppm	0.3657 ppm
Concentration per Run 1	0.002 ppm	0.155 ppm	0.366 ppm
Concentration per Run 2	0.002 ppm	0.140 ppm	0.365 ppm
Concentration per Run 3	0.002 ppm	0.221 ppm	0.367 ppm
Concentration RSD	0.9 %	25.0 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.3745 ppm	0.0989 ppm	158.0122 ppm
Concentration per Run 1	0.384 ppm	0.099 ppm	158.374 ppm
Concentration per Run 2	0.440 ppm	0.100 ppm	158.427 ppm
Concentration per Run 3	0.299 ppm	0.098 ppm	157.235 ppm
Concentration RSD	18.9 %	0.7 %	0.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.7 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	174.4353 ppm	91.8543 ppm	19.0088 ppm
Concentration per Run 1	174.688 ppm	91.761 ppm	18.956 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	175.095 ppm	91.757 ppm	19.176 ppm
Concentration per Run 3	173.523 ppm	92.044 ppm	18.895 ppm
Concentration RSD	0.5 %	0.2 %	0.8 %
Concentration SD	0.8 ppm	0.2 ppm	0.1 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	30.8684 ppm	30.5312 ppm	-0.0012 ppm
Concentration per Run 1	30.863 ppm	30.504 ppm	-0.002 ppm
Concentration per Run 2	31.030 ppm	30.546 ppm	0.001 ppm
Concentration per Run 3	30.711 ppm	30.543 ppm	-0.002 ppm
Concentration RSD	0.5 %	0.1 %	133.6 %
Concentration SD	0.2 ppm	0.0 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0001 ppm	0.0007 ppm	0.0010 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	269.8 %	43.4 %	34.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.0596 ppm	0.0037 ppm	0.0234 ppm
Concentration per Run 1	0.060 ppm	0.004 ppm	0.029 ppm
Concentration per Run 2	0.060 ppm	0.003 ppm	0.021 ppm
Concentration per Run 3	0.059 ppm	0.004 ppm	0.020 ppm
Concentration RSD	0.2 %	20.0 %	19.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	-0.0007 ppm	0.5345 ppm	1.6488 ppm
Concentration per Run 1	-0.001 ppm	0.534 ppm	1.649 ppm
Concentration per Run 2	0.000 ppm	0.532 ppm	1.657 ppm
Concentration per Run 3	0.000 ppm	0.537 ppm	1.640 ppm
Concentration RSD	63.3 %	0.4 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	4.9809 ppm	-0.0005 ppm	32.9698 ppm
Concentration per Run 1	4.985 ppm	-0.001 ppm	33.030 ppm
Concentration per Run 2	4.983 ppm	0.000 ppm	32.957 ppm
Concentration per Run 3	4.975 ppm	0.000 ppm	32.923 ppm
Concentration RSD	0.1 %	85.6 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	86.0176 %	101.9660 %	92.9749 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	86.106 %	102.008 %	92.820 %
Concentration per Run 2	86.029 %	101.360 %	92.916 %
Concentration per Run 3	85.918 %	102.530 %	93.189 %
Concentration RSD	0.1 %	0.6 %	0.2 %
Concentration SD	0.1 %	0.6 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	96.0275 %	0.0253 ppm
Concentration per Run 1	96.037 %	-0.002 ppm
Concentration per Run 2	95.991 %	0.078 ppm
Concentration per Run 3	96.054 %	0.000 ppm
Concentration RSD	0.0 %	180.8 %
Concentration SD	0.0 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	698 cps	3 cps	3 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1 cps	1 cps	-19 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-1 cps	13 cps	22 cps	192 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	10 cps	905 cps	77,545 cps	43,860 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	4,395 cps	9,577 cps	41,011 cps	2,708 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-3 cps	1 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	2,105 cps	0 cps	38 cps	2 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	154 cps	41,048 cps	10,262 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	8,517 cps	4,076 cps	8,253 cps	152,896 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,023 cps	2 cps

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QTEGRA

L793892-13 WG821543

Sample Type UNKNOWN Analysis Date 10/15/2015 5:04:07 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.0031 ppm	0.1288 ppm	0.0002 ppm
Concentration per Run 1	0.003 ppm	0.129 ppm	0.000 ppm
Concentration per Run 2	0.004 ppm	0.129 ppm	0.000 ppm
Concentration per Run 3	0.002 ppm	0.129 ppm	0.000 ppm
Concentration RSD	20.9 %	0.2 %	8.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	-0.0003 ppm	0.0041 ppm	-0.0019 ppm
Concentration per Run 1	-0.001 ppm	0.003 ppm	-0.002 ppm
Concentration per Run 2	0.000 ppm	0.005 ppm	-0.003 ppm
Concentration per Run 3	0.001 ppm	0.004 ppm	0.000 ppm
Concentration RSD	255.1 %	29.1 %	84.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	-0.0003 ppm	-0.0024 ppm	0.0019 ppm
Concentration per Run 1	0.000 ppm	-0.003 ppm	0.002 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	0.002 ppm
Concentration per Run 3	-0.001 ppm	-0.005 ppm	0.002 ppm
Concentration RSD	159.0 %	95.2 %	12.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0049 ppm	0.2319 ppm	0.2859 ppm
Concentration per Run 1	0.005 ppm	0.228 ppm	0.287 ppm
Concentration per Run 2	0.005 ppm	0.207 ppm	0.285 ppm
Concentration per Run 3	0.005 ppm	0.260 ppm	0.285 ppm
Concentration RSD	2.0 %	11.5 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.3829 ppm	0.0346 ppm	131.1349 ppm
Concentration per Run 1	0.425 ppm	0.038 ppm	131.057 ppm
Concentration per Run 2	0.292 ppm	0.032 ppm	131.117 ppm
Concentration per Run 3	0.432 ppm	0.034 ppm	131.231 ppm
Concentration RSD	20.7 %	9.6 %	0.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.1 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	144.9206 ppm	76.8845 ppm	16.7490 ppm
Concentration per Run 1	144.866 ppm	77.032 ppm	16.758 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	144.907 ppm	76.858 ppm	16.732 ppm
Concentration per Run 3	144.989 ppm	76.763 ppm	16.757 ppm
Concentration RSD	0.0 %	0.2 %	0.1 %
Concentration SD	0.1 ppm	0.1 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	18.7661 ppm	18.3376 ppm	-0.0008 ppm
Concentration per Run 1	18.720 ppm	18.286 ppm	-0.001 ppm
Concentration per Run 2	18.792 ppm	18.359 ppm	-0.001 ppm
Concentration per Run 3	18.787 ppm	18.368 ppm	0.000 ppm
Concentration RSD	0.2 %	0.2 %	80.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0001 ppm	0.0012 ppm	-0.0006 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	-0.002 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	0.001 ppm
Concentration RSD	60.0 %	21.6 %	274.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.3126 ppm	0.0043 ppm	0.0203 ppm
Concentration per Run 1	0.314 ppm	0.003 ppm	0.020 ppm
Concentration per Run 2	0.312 ppm	0.007 ppm	0.020 ppm
Concentration per Run 3	0.312 ppm	0.003 ppm	0.021 ppm
Concentration RSD	0.4 %	51.8 %	3.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0002 ppm	0.5752 ppm	1.3205 ppm
Concentration per Run 1	0.000 ppm	0.588 ppm	1.316 ppm
Concentration per Run 2	0.001 ppm	0.575 ppm	1.324 ppm
Concentration per Run 3	0.000 ppm	0.563 ppm	1.321 ppm
Concentration RSD	173.3 %	2.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	4.9899 ppm	-0.0005 ppm	29.3166 ppm
Concentration per Run 1	5.003 ppm	0.001 ppm	29.311 ppm
Concentration per Run 2	4.995 ppm	0.000 ppm	29.375 ppm
Concentration per Run 3	4.972 ppm	-0.002 ppm	29.263 ppm
Concentration RSD	0.3 %	227.9 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	87.4673 %	101.9187 %	93.6467 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	87.600 %	102.243 %	93.242 %
Concentration per Run 2	87.491 %	102.221 %	93.725 %
Concentration per Run 3	87.311 %	101.292 %	93.972 %
Concentration RSD	0.2 %	0.5 %	0.4 %
Concentration SD	0.1 %	0.5 %	0.4 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	96.7287 %	0.0597 ppm
Concentration per Run 1	96.907 %	0.043 ppm
Concentration per Run 2	96.792 %	0.086 ppm
Concentration per Run 3	96.487 %	0.050 ppm
Concentration RSD	0.2 %	39.2 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	824 cps	3 cps	4 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1 cps	0 cps	-19 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	0 cps	25 cps	26 cps	150 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	10 cps	334 cps	64,342 cps	36,427 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	3,677 cps	8,426 cps	24,902 cps	1,620 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-4 cps	3 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	11,062 cps	0 cps	34 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	166 cps	32,857 cps	10,354 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	7,628 cps	4,145 cps	8,250 cps	154,001 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,140 cps	11 cps

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L793892-14 WG821543

Sample Type UNKNOWN Analysis Date 10/15/2015 5:07:10 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0047 ppm	0.0019 ppm	-0.0002 ppm	-0.0008 ppm
Concentration per Run 1	0.005 ppm	0.002 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.003 ppm	0.002 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 3	0.006 ppm	0.002 ppm	0.000 ppm	0.000 ppm
Concentration RSD	32.4 %	9.8 %	69.0 %	67.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0011 ppm	-0.0022 ppm	-0.0001 ppm	0.0011 ppm
Concentration per Run 1	0.000 ppm	-0.003 ppm	0.000 ppm	0.006 ppm
Concentration per Run 2	0.002 ppm	-0.001 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 3	0.001 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration RSD	91.4 %	45.4 %	718.8 %	410.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0006 ppm	0.0011 ppm	0.0606 ppm	0.0039 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.039 ppm	0.003 ppm
Concentration per Run 2	0.001 ppm	0.001 ppm	0.120 ppm	0.003 ppm
Concentration per Run 3	0.001 ppm	0.001 ppm	0.023 ppm	0.005 ppm
Concentration RSD	47.7 %	9.1 %	86.2 %	30.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0620 ppm	-0.0002 ppm	0.0759 ppm	0.1069 ppm
Concentration per Run 1	0.093 ppm	-0.001 ppm	0.073 ppm	0.113 ppm
Concentration per Run 2	-0.057 ppm	0.000 ppm	0.075 ppm	0.100 ppm
Concentration per Run 3	0.150 ppm	0.000 ppm	0.080 ppm	0.107 ppm
Concentration RSD	172.6 %	204.5 %	5.3 %	6.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0209 ppm	0.2339 ppm	0.3676 ppm	0.0981 ppm
Concentration per Run 1	0.040 ppm	0.261 ppm	0.362 ppm	0.065 ppm
Concentration per Run 2	0.013 ppm	0.231 ppm	0.367 ppm	0.261 ppm
Concentration per Run 3	0.010 ppm	0.210 ppm	0.373 ppm	-0.032 ppm
Concentration RSD	77.5 %	11.0 %	1.5 %	152.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0000 ppm	-0.0002 ppm	0.0000 ppm	0.0014 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration RSD	2,581.4 %	28.0 %	1,158.0 %	43.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0004 ppm	0.0039 ppm	0.0003 ppm	-0.0004 ppm
Concentration per Run 1	0.000 ppm	0.005 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.000 ppm	0.005 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	0.001 ppm	-0.001 ppm
Concentration RSD	17.0 %	57.6 %	305.7 %	204.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0339 ppm	0.0007 ppm	0.0489 ppm	-0.0006 ppm
Concentration per Run 1	0.038 ppm	0.001 ppm	0.048 ppm	0.000 ppm
Concentration per Run 2	0.034 ppm	0.001 ppm	0.050 ppm	-0.001 ppm
Concentration per Run 3	0.029 ppm	0.001 ppm	0.049 ppm	0.000 ppm
Concentration RSD	13.3 %	2.3 %	1.3 %	59.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0597 ppm	100.5641 %	103.4960 %	100.2628 %
Concentration per Run 1	0.061 ppm	100.270 %	103.439 %	100.726 %
Concentration per Run 2	0.060 ppm	100.598 %	102.916 %	100.249 %
Concentration per Run 3	0.058 ppm	100.824 %	104.133 %	99.813 %
Concentration RSD	2.9 %	0.3 %	0.6 %	0.5 %
Concentration SD	0.0 ppm	0.3 %	0.6 %	0.5 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	103.7173 %	0.0384 ppm
Concentration per Run 1	103.523 %	0.014 ppm
Concentration per Run 2	103.614 %	0.049 ppm
Concentration per Run 3	104.015 %	0.052 ppm
Concentration RSD	0.3 %	54.6 %
Concentration SD	0.3 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	17 cps	0 cps	1 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	0 cps	-18 cps	14 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-2 cps	8 cps	16 cps	4 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2 cps	26 cps	136 cps	53 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	49 cps	446 cps	-6 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-5 cps	-2 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	30 cps	0 cps	3 cps	2 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	13 cps	-9 cps	161 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	15 cps	4,765 cps	8,377 cps	164,881 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,306 cps	5 cps

Comprehensive sample report

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QTEGRA

CCV 15I21330

Sample Type QC Analysis Date 10/15/2015 5:10:20 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.9913 ppm	0.4838 ppm	0.4974 ppm	1.0334 ppm
Concentration per Run 1	1.996 ppm	0.483 ppm	0.498 ppm	1.033 ppm
Concentration per Run 2	1.992 ppm	0.484 ppm	0.497 ppm	1.031 ppm
Concentration per Run 3	1.986 ppm	0.484 ppm	0.497 ppm	1.035 ppm
Concentration RSD	0.2 %	0.1 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5104 ppm	2.0255 ppm	1.0004 ppm	1.9774 ppm
Concentration per Run 1	0.511 ppm	2.024 ppm	0.999 ppm	1.980 ppm
Concentration per Run 2	0.511 ppm	2.034 ppm	1.002 ppm	1.968 ppm
Concentration per Run 3	0.509 ppm	2.018 ppm	1.000 ppm	1.984 ppm
Concentration RSD	0.3 %	0.4 %	0.2 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0850 ppm	3.0816 ppm	9.8385 ppm	9.4130 ppm
Concentration per Run 1	2.088 ppm	3.082 ppm	9.777 ppm	9.417 ppm
Concentration per Run 2	2.085 ppm	3.085 ppm	9.829 ppm	9.396 ppm
Concentration per Run 3	2.082 ppm	3.078 ppm	9.910 ppm	9.426 ppm
Concentration RSD	0.1 %	0.1 %	0.7 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.8066 ppm	1.4586 ppm	50.9317 ppm	56.3114 ppm
Concentration per Run 1	10.895 ppm	1.457 ppm	51.064 ppm	56.359 ppm
Concentration per Run 2	10.748 ppm	1.455 ppm	50.546 ppm	55.985 ppm
Concentration per Run 3	10.776 ppm	1.464 ppm	51.186 ppm	56.590 ppm
Concentration RSD	0.7 %	0.3 %	0.7 %	0.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.3 ppm	0.3 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.2234 ppm	52.3568 ppm	49.1787 ppm	49.3610 ppm
Concentration per Run 1	10.306 ppm	52.405 ppm	49.209 ppm	49.343 ppm
Concentration per Run 2	10.057 ppm	52.143 ppm	48.972 ppm	49.391 ppm
Concentration per Run 3	10.307 ppm	52.522 ppm	49.355 ppm	49.348 ppm
Concentration RSD	1.4 %	0.4 %	0.4 %	0.1 %
Concentration SD	0.1 ppm	0.2 ppm	0.2 ppm	0.0 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.9562 ppm	0.1985 ppm	1.0240 ppm	2.0550 ppm
Concentration per Run 1	1.960 ppm	0.199 ppm	1.025 ppm	2.051 ppm
Concentration per Run 2	1.955 ppm	0.198 ppm	1.024 ppm	2.057 ppm
Concentration per Run 3	1.953 ppm	0.199 ppm	1.023 ppm	2.058 ppm
Concentration RSD	0.2 %	0.3 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.0195 ppm	0.9790 ppm	1.0724 ppm	0.4426 ppm
Concentration per Run 1	1.020 ppm	0.977 ppm	1.072 ppm	0.443 ppm
Concentration per Run 2	1.019 ppm	0.982 ppm	1.070 ppm	0.442 ppm
Concentration per Run 3	1.020 ppm	0.978 ppm	1.076 ppm	0.443 ppm
Concentration RSD	0.1 %	0.3 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.9149 ppm	1.0368 ppm	1.9863 ppm	2.0070 ppm
Concentration per Run 1	1.915 ppm	1.037 ppm	1.987 ppm	2.011 ppm
Concentration per Run 2	1.906 ppm	1.034 ppm	1.990 ppm	2.006 ppm
Concentration per Run 3	1.924 ppm	1.040 ppm	1.983 ppm	2.003 ppm
Concentration RSD	0.5 %	0.3 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.8080 ppm	88.9885 %	102.6880 %	94.7820 %
Concentration per Run 1	4.819 ppm	88.891 %	102.011 %	94.981 %
Concentration per Run 2	4.802 ppm	88.991 %	103.838 %	94.685 %
Concentration per Run 3	4.803 ppm	89.084 %	102.215 %	94.681 %
Concentration RSD	0.2 %	0.1 %	1.0 %	0.2 %
Concentration SD	0.0 ppm	0.1 %	1.0 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	98.7027 %	0.0654 ppm
Concentration per Run 1	98.579 %	0.062 ppm
Concentration per Run 2	98.664 %	0.102 ppm
Concentration per Run 3	98.864 %	0.032 ppm
Concentration RSD	0.1 %	53.4 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	815 cps	3,499 cps	4,230 cps	8,590 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	365 cps	582 cps	8,652 cps	1,332 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,902 cps	16,097 cps	715 cps	5,466 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	305 cps	14,528 cps	28,031 cps	15,859 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	547 cps	29,662 cps	73,150 cps	4,910 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,033 cps	3,340 cps	5,221 cps	1,205 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,535 cps	484 cps	1,871 cps	876 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	608 cps	28,875 cps	4,663 cps	2,665 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,417 cps	4,217 cps	8,312 cps	155,868 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,469 cps	15 cps

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Sample Type QC Analysis Date 10/15/2015 5:13:05 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0026 ppm	0.0001 ppm	0.0001 ppm	-0.0005 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.004 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.003 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	53.6 %	103.6 %	144.2 %	85.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	-0.0001 ppm	0.0005 ppm	0.0002 ppm	-0.0043 ppm
Concentration per Run 1	0.000 ppm	0.002 ppm	0.000 ppm	-0.009 ppm
Concentration per Run 2	0.001 ppm	-0.002 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 3	-0.001 ppm	0.002 ppm	0.001 ppm	-0.003 ppm
Concentration RSD	1,588.4 %	442.2 %	290.5 %	93.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	-0.0001 ppm	0.0001 ppm	0.0334 ppm	-0.0005 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.065 ppm	-0.001 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.021 ppm	-0.003 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.015 ppm	0.002 ppm
Concentration RSD	565.6 %	117.5 %	81.4 %	473.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0168 ppm	-0.0002 ppm	-0.0072 ppm	0.0164 ppm
Concentration per Run 1	0.024 ppm	-0.001 ppm	-0.002 ppm	0.018 ppm
Concentration per Run 2	0.034 ppm	0.001 ppm	-0.007 ppm	0.003 ppm
Concentration per Run 3	-0.007 ppm	-0.001 ppm	-0.012 ppm	0.028 ppm
Concentration RSD	127.9 %	604.2 %	63.9 %	76.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0189 ppm	0.1796 ppm	0.0041 ppm	-0.5714 ppm
Concentration per Run 1	0.020 ppm	0.195 ppm	0.008 ppm	-0.595 ppm
Concentration per Run 2	0.011 ppm	0.178 ppm	-0.002 ppm	-0.619 ppm
Concentration per Run 3	0.026 ppm	0.166 ppm	0.006 ppm	-0.500 ppm
Concentration RSD	38.4 %	8.1 %	121.2 %	11.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0067 ppm	-0.0001 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 1	0.006 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.007 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.007 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	10.0 %	28.2 %	40.5 %	206.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0001 ppm	0.0030 ppm	-0.0003 ppm	0.0004 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.006 ppm	-0.002 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.002 ppm	0.001 ppm	0.001 ppm
Concentration RSD	75.1 %	81.8 %	580.5 %	36.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0012 ppm	0.0001 ppm	-0.0002 ppm	0.0010 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	-0.003 ppm	0.001 ppm
Concentration per Run 2	0.006 ppm	0.000 ppm	0.001 ppm	0.001 ppm
Concentration per Run 3	-0.001 ppm	0.000 ppm	0.001 ppm	0.001 ppm
Concentration RSD	371.2 %	142.0 %	1,016.5 %	7.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0044 ppm	101.6195 %	103.0203 %	100.9373 %
Concentration per Run 1	0.005 ppm	101.622 %	103.735 %	100.930 %
Concentration per Run 2	0.002 ppm	101.469 %	103.195 %	100.929 %
Concentration per Run 3	0.007 ppm	101.767 %	102.131 %	100.953 %
Concentration RSD	52.7 %	0.1 %	0.8 %	0.0 %
Concentration SD	0.0 ppm	0.1 %	0.8 %	0.0 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	103.8023 %	0.0537 ppm
Concentration per Run 1	103.768 %	0.072 ppm
Concentration per Run 2	103.652 %	0.048 ppm
Concentration per Run 3	103.987 %	0.041 ppm
Concentration RSD	0.2 %	30.6 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	5 cps	2 cps	3 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-15 cps	10 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	4 cps	14 cps	2 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	25 cps	94 cps	30 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	31 cps	-44 cps	-72 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	5 cps	-4 cps	-1 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	21 cps	-1 cps	1 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	4 cps	-23 cps	53 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	0 cps	4,815 cps	8,339 cps	165,990 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,320 cps	11 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.9821 ppm	0.4850 ppm	0.4974 ppm	1.0355 ppm
Concentration per Run 1	1.988 ppm	0.486 ppm	0.498 ppm	1.032 ppm
Concentration per Run 2	1.979 ppm	0.485 ppm	0.497 ppm	1.037 ppm
Concentration per Run 3	1.979 ppm	0.484 ppm	0.497 ppm	1.037 ppm
Concentration RSD	0.3 %	0.2 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5121 ppm	2.0196 ppm	0.9993 ppm	1.9749 ppm
Concentration per Run 1	0.512 ppm	2.018 ppm	1.000 ppm	1.970 ppm
Concentration per Run 2	0.513 ppm	2.029 ppm	1.000 ppm	1.981 ppm
Concentration per Run 3	0.512 ppm	2.012 ppm	0.997 ppm	1.974 ppm
Concentration RSD	0.1 %	0.4 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0885 ppm	3.0904 ppm	9.8320 ppm	9.4000 ppm
Concentration per Run 1	2.089 ppm	3.090 ppm	9.753 ppm	9.416 ppm
Concentration per Run 2	2.090 ppm	3.087 ppm	9.904 ppm	9.387 ppm
Concentration per Run 3	2.087 ppm	3.093 ppm	9.838 ppm	9.398 ppm
Concentration RSD	0.1 %	0.1 %	0.8 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.6918 ppm	1.4731 ppm	51.0675 ppm	56.5548 ppm
Concentration per Run 1	10.598 ppm	1.477 ppm	51.236 ppm	56.809 ppm
Concentration per Run 2	10.852 ppm	1.475 ppm	51.134 ppm	56.623 ppm
Concentration per Run 3	10.625 ppm	1.468 ppm	50.833 ppm	56.232 ppm
Concentration RSD	1.3 %	0.3 %	0.4 %	0.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.2 ppm	0.3 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.2703 ppm	52.9543 ppm	49.5735 ppm	49.6857 ppm
Concentration per Run 1	10.309 ppm	53.212 ppm	49.757 ppm	49.691 ppm
Concentration per Run 2	10.206 ppm	53.013 ppm	49.670 ppm	49.654 ppm
Concentration per Run 3	10.296 ppm	52.637 ppm	49.294 ppm	49.713 ppm
Concentration RSD	0.5 %	0.6 %	0.5 %	0.1 %
Concentration SD	0.1 ppm	0.3 ppm	0.2 ppm	0.0 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.9516 ppm	0.1984 ppm	1.0273 ppm	2.0601 ppm
Concentration per Run 1	1.952 ppm	0.198 ppm	1.026 ppm	2.056 ppm
Concentration per Run 2	1.953 ppm	0.199 ppm	1.028 ppm	2.059 ppm
Concentration per Run 3	1.950 ppm	0.198 ppm	1.028 ppm	2.065 ppm
Concentration RSD	0.1 %	0.1 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.0235 ppm	0.9697 ppm	1.0682 ppm	0.4461 ppm
Concentration per Run 1	1.021 ppm	0.972 ppm	1.065 ppm	0.445 ppm
Concentration per Run 2	1.025 ppm	0.966 ppm	1.074 ppm	0.447 ppm
Concentration per Run 3	1.025 ppm	0.971 ppm	1.066 ppm	0.446 ppm
Concentration RSD	0.2 %	0.3 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.9099 ppm	1.0380 ppm	2.0065 ppm	2.0049 ppm
Concentration per Run 1	1.917 ppm	1.042 ppm	2.000 ppm	2.005 ppm
Concentration per Run 2	1.912 ppm	1.041 ppm	2.012 ppm	2.003 ppm
Concentration per Run 3	1.901 ppm	1.031 ppm	2.008 ppm	2.006 ppm
Concentration RSD	0.4 %	0.6 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7965 ppm	88.8004 %	100.8916 %	94.7582 %
Concentration per Run 1	4.813 ppm	88.854 %	100.560 %	95.230 %
Concentration per Run 2	4.787 ppm	88.790 %	101.136 %	94.386 %
Concentration per Run 3	4.790 ppm	88.757 %	100.979 %	94.658 %
Concentration RSD	0.3 %	0.1 %	0.3 %	0.5 %
Concentration SD	0.0 ppm	0.0 %	0.3 %	0.4 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	98.7194 %	0.0520 ppm
Concentration per Run 1	98.569 %	0.086 ppm
Concentration per Run 2	98.800 %	0.042 ppm
Concentration per Run 3	98.789 %	0.028 ppm
Concentration RSD	0.1 %	57.5 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	811 cps	3,509 cps	4,231 cps	8,606 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	366 cps	581 cps	8,641 cps	1,307 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,900 cps	16,146 cps	702 cps	5,363 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	297 cps	14,416 cps	27,615 cps	15,650 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	540 cps	29,477 cps	72,449 cps	4,856 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,031 cps	3,280 cps	5,227 cps	1,206 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,683 cps	471 cps	1,831 cps	883 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	596 cps	28,405 cps	4,709 cps	2,662 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,414 cps	4,208 cps	8,167 cps	155,829 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,472 cps	11 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0019 ppm	0.0002 ppm	-0.0001 ppm	-0.0005 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.004 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	87.4 %	43.4 %	166.0 %	86.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0020 ppm	0.0003 ppm	-0.0002 ppm	-0.0018 ppm
Concentration per Run 1	0.002 ppm	0.004 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 2	0.002 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	-0.001 ppm	-0.003 ppm
Concentration RSD	14.1 %	957.1 %	283.5 %	106.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0304 ppm	0.0015 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.010 ppm	0.002 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.051 ppm	0.002 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.030 ppm	0.001 ppm
Concentration RSD	109.6 %	1,142.0 %	66.4 %	57.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0129 ppm	-0.0014 ppm	-0.0030 ppm	0.0195 ppm
Concentration per Run 1	0.025 ppm	-0.001 ppm	-0.004 ppm	0.030 ppm
Concentration per Run 2	-0.048 ppm	-0.003 ppm	-0.001 ppm	0.005 ppm
Concentration per Run 3	0.061 ppm	0.000 ppm	-0.004 ppm	0.023 ppm
Concentration RSD	429.2 %	110.1 %	66.0 %	66.0 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0214 ppm	0.1993 ppm	0.0009 ppm	-0.6333 ppm
Concentration per Run 1	0.019 ppm	0.171 ppm	0.009 ppm	-0.499 ppm
Concentration per Run 2	0.042 ppm	0.206 ppm	0.001 ppm	-0.738 ppm
Concentration per Run 3	0.004 ppm	0.220 ppm	-0.008 ppm	-0.663 ppm
Concentration RSD	89.3 %	12.7 %	909.0 %	19.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0067 ppm	0.0000 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.006 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.008 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.006 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	20.8 %	601.4 %	139.8 %	1,257.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0001 ppm	0.0037 ppm	0.0012 ppm	0.0006 ppm
Concentration per Run 1	0.000 ppm	0.003 ppm	0.001 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.007 ppm	0.001 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	0.002 ppm	0.001 ppm
Concentration RSD	38.6 %	79.3 %	59.1 %	6.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0051 ppm	0.0002 ppm	0.0041 ppm	0.0005 ppm
Concentration per Run 1	-0.011 ppm	0.000 ppm	0.004 ppm	0.001 ppm
Concentration per Run 2	-0.002 ppm	0.000 ppm	0.005 ppm	0.000 ppm
Concentration per Run 3	-0.002 ppm	0.000 ppm	0.004 ppm	0.001 ppm
Concentration RSD	104.8 %	31.4 %	20.7 %	30.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0023 ppm	101.2819 %	101.4401 %	100.6970 %
Concentration per Run 1	0.001 ppm	101.225 %	101.814 %	100.682 %
Concentration per Run 2	0.004 ppm	101.444 %	101.284 %	100.672 %
Concentration per Run 3	0.002 ppm	101.177 %	101.223 %	100.738 %
Concentration RSD	75.4 %	0.1 %	0.3 %	0.0 %
Concentration SD	0.0 ppm	0.1 %	0.3 %	0.0 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	103.6456 %	0.0689 ppm
Concentration per Run 1	103.649 %	0.073 ppm
Concentration per Run 2	103.729 %	0.081 ppm
Concentration per Run 3	103.559 %	0.053 ppm
Concentration RSD	0.1 %	21.2 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	5 cps	1 cps	2 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	0 cps	1 cps	-19 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-4 cps	3 cps	14 cps	3 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	13 cps	95 cps	30 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	42 cps	-48 cps	-77 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	5 cps	-2 cps	-3 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	22 cps	0 cps	4 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-19 cps	63 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-1 cps	4,799 cps	8,211 cps	165,595 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,294 cps	16 cps

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Sample Type QC Analysis Date 10/15/2015 5:37:25 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0110 ppm	0.0053 ppm	0.0020 ppm	0.0098 ppm
Concentration per Run 1	0.009 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration per Run 2	0.011 ppm	0.005 ppm	0.002 ppm	0.009 ppm
Concentration per Run 3	0.013 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration RSD	15.4 %	1.3 %	6.1 %	3.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0057 ppm	0.0088 ppm	0.0053 ppm	0.0077 ppm
Concentration per Run 1	0.006 ppm	0.010 ppm	0.005 ppm	0.007 ppm
Concentration per Run 2	0.005 ppm	0.008 ppm	0.006 ppm	0.005 ppm
Concentration per Run 3	0.006 ppm	0.008 ppm	0.005 ppm	0.012 ppm
Concentration RSD	15.0 %	10.3 %	12.8 %	47.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0103 ppm	0.0537 ppm	0.2106 ppm	0.0986 ppm
Concentration per Run 1	0.011 ppm	0.054 ppm	0.239 ppm	0.100 ppm
Concentration per Run 2	0.010 ppm	0.054 ppm	0.162 ppm	0.099 ppm
Concentration per Run 3	0.010 ppm	0.053 ppm	0.231 ppm	0.096 ppm
Concentration RSD	4.1 %	1.3 %	20.1 %	2.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.2000 ppm	0.0163 ppm	1.0551 ppm	1.1629 ppm
Concentration per Run 1	0.178 ppm	0.016 ppm	1.054 ppm	1.171 ppm
Concentration per Run 2	0.201 ppm	0.016 ppm	1.067 ppm	1.152 ppm
Concentration per Run 3	0.221 ppm	0.017 ppm	1.043 ppm	1.166 ppm
Concentration RSD	10.8 %	5.6 %	1.1 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	1.0515 ppm	1.2660 ppm	1.0562 ppm	0.4902 ppm
Concentration per Run 1	1.024 ppm	1.278 ppm	1.061 ppm	0.349 ppm
Concentration per Run 2	1.093 ppm	1.283 ppm	1.060 ppm	0.622 ppm
Concentration per Run 3	1.037 ppm	1.237 ppm	1.048 ppm	0.499 ppm
Concentration RSD	3.4 %	2.0 %	0.7 %	27.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0111 ppm	0.0019 ppm	0.0101 ppm	0.0103 ppm
Concentration per Run 1	0.012 ppm	0.002 ppm	0.010 ppm	0.010 ppm
Concentration per Run 2	0.012 ppm	0.002 ppm	0.010 ppm	0.011 ppm
Concentration per Run 3	0.010 ppm	0.002 ppm	0.010 ppm	0.010 ppm
Concentration RSD	10.1 %	6.0 %	1.7 %	5.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0106 ppm	0.0234 ppm	0.0514 ppm	0.0045 ppm
Concentration per Run 1	0.010 ppm	0.025 ppm	0.053 ppm	0.004 ppm
Concentration per Run 2	0.011 ppm	0.023 ppm	0.051 ppm	0.005 ppm
Concentration per Run 3	0.011 ppm	0.022 ppm	0.051 ppm	0.005 ppm
Concentration RSD	1.3 %	7.5 %	2.3 %	6.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0479 ppm	0.0105 ppm	0.0495 ppm	0.0510 ppm
Concentration per Run 1	0.045 ppm	0.011 ppm	0.048 ppm	0.051 ppm
Concentration per Run 2	0.046 ppm	0.010 ppm	0.050 ppm	0.052 ppm
Concentration per Run 3	0.053 ppm	0.011 ppm	0.050 ppm	0.050 ppm
Concentration RSD	8.9 %	1.8 %	2.4 %	2.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.9138 ppm	100.2196 %	103.1831 %	101.7309 %
Concentration per Run 1	0.923 ppm	99.429 %	102.418 %	101.931 %
Concentration per Run 2	0.912 ppm	100.374 %	102.850 %	101.571 %
Concentration per Run 3	0.907 ppm	100.856 %	104.281 %	101.691 %
Concentration RSD	0.9 %	0.7 %	0.9 %	0.2 %
Concentration SD	0.0 ppm	0.7 %	1.0 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	103.6436 %	0.0464 ppm
Concentration per Run 1	102.918 %	0.090 ppm
Concentration per Run 2	103.839 %	0.015 ppm
Concentration per Run 3	104.174 %	0.034 ppm
Concentration RSD	0.6 %	83.6 %
Concentration SD	0.7 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1 cps	44 cps	20 cps	94 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	3 cps	3 cps	32 cps	18 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	18 cps	297 cps	27 cps	60 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	6 cps	190 cps	680 cps	354 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	57 cps	651 cps	1,530 cps	34 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	8 cps	30 cps	56 cps	4 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	468 cps	10 cps	92 cps	12 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	19 cps	267 cps	177 cps	73 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	282 cps	4,749 cps	8,352 cps	167,295 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,294 cps	9 cps

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CCV 15I21330

Sample Type QC Analysis Date 10/15/2015 6:14:28 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.9904 ppm	0.4879 ppm	0.4948 ppm	1.0400 ppm
Concentration per Run 1	1.992 ppm	0.488 ppm	0.494 ppm	1.041 ppm
Concentration per Run 2	1.995 ppm	0.488 ppm	0.495 ppm	1.038 ppm
Concentration per Run 3	1.984 ppm	0.488 ppm	0.496 ppm	1.040 ppm
Concentration RSD	0.3 %	0.1 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5134 ppm	2.0134 ppm	0.9955 ppm	1.9672 ppm
Concentration per Run 1	0.515 ppm	2.019 ppm	0.995 ppm	1.970 ppm
Concentration per Run 2	0.513 ppm	2.010 ppm	0.994 ppm	1.970 ppm
Concentration per Run 3	0.512 ppm	2.011 ppm	0.997 ppm	1.962 ppm
Concentration RSD	0.3 %	0.3 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0879 ppm	3.1067 ppm	9.7886 ppm	9.3917 ppm
Concentration per Run 1	2.086 ppm	3.108 ppm	9.784 ppm	9.368 ppm
Concentration per Run 2	2.089 ppm	3.108 ppm	9.807 ppm	9.402 ppm
Concentration per Run 3	2.088 ppm	3.104 ppm	9.775 ppm	9.405 ppm
Concentration RSD	0.1 %	0.1 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.5879 ppm	1.4614 ppm	50.4431 ppm	55.8376 ppm
Concentration per Run 1	10.587 ppm	1.462 ppm	50.479 ppm	55.911 ppm
Concentration per Run 2	10.586 ppm	1.463 ppm	50.383 ppm	55.801 ppm
Concentration per Run 3	10.591 ppm	1.460 ppm	50.468 ppm	55.801 ppm
Concentration RSD	0.0 %	0.1 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.1801 ppm	51.8773 ppm	49.9575 ppm	50.2565 ppm
Concentration per Run 1	10.198 ppm	51.858 ppm	49.981 ppm	50.236 ppm
Concentration per Run 2	10.158 ppm	51.927 ppm	50.045 ppm	50.412 ppm
Concentration per Run 3	10.184 ppm	51.846 ppm	49.847 ppm	50.122 ppm
Concentration RSD	0.2 %	0.1 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.9502 ppm	0.1981 ppm	1.0310 ppm	2.0442 ppm
Concentration per Run 1	1.953 ppm	0.198 ppm	1.031 ppm	2.040 ppm
Concentration per Run 2	1.950 ppm	0.198 ppm	1.032 ppm	2.053 ppm
Concentration per Run 3	1.948 ppm	0.198 ppm	1.030 ppm	2.040 ppm
Concentration RSD	0.1 %	0.1 %	0.1 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.0189 ppm	0.9708 ppm	1.0541 ppm	0.4558 ppm
Concentration per Run 1	1.016 ppm	0.972 ppm	1.046 ppm	0.455 ppm
Concentration per Run 2	1.020 ppm	0.972 ppm	1.060 ppm	0.456 ppm
Concentration per Run 3	1.020 ppm	0.969 ppm	1.056 ppm	0.457 ppm
Concentration RSD	0.2 %	0.2 %	0.7 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.9001 ppm	1.0243 ppm	1.9816 ppm	2.0009 ppm
Concentration per Run 1	1.897 ppm	1.023 ppm	1.979 ppm	2.002 ppm
Concentration per Run 2	1.910 ppm	1.026 ppm	1.981 ppm	2.001 ppm
Concentration per Run 3	1.893 ppm	1.024 ppm	1.985 ppm	2.000 ppm
Concentration RSD	0.5 %	0.1 %	0.1 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7857 ppm	89.2966 %	101.2222 %	95.1079 %
Concentration per Run 1	4.786 ppm	89.403 %	101.171 %	95.167 %
Concentration per Run 2	4.792 ppm	89.162 %	101.642 %	94.945 %
Concentration per Run 3	4.780 ppm	89.324 %	100.853 %	95.212 %
Concentration RSD	0.1 %	0.1 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	0.1 %	0.4 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	99.2086 %	0.0378 ppm
Concentration per Run 1	99.308 %	0.097 ppm
Concentration per Run 2	99.093 %	-0.019 ppm
Concentration per Run 3	99.224 %	0.035 ppm
Concentration RSD	0.1 %	154.1 %
Concentration SD	0.1 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	818 cps	3,547 cps	4,230 cps	8,675 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	369 cps	582 cps	8,639 cps	1,306 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,921 cps	16,312 cps	701 cps	5,376 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	295 cps	14,348 cps	27,367 cps	15,502 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	537 cps	28,971 cps	73,250 cps	4,928 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,036 cps	3,286 cps	5,275 cps	1,203 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,651 cps	473 cps	1,813 cps	907 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	595 cps	28,122 cps	4,668 cps	2,670 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,418 cps	4,231 cps	8,193 cps	156,404 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,554 cps	6 cps

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Sample Type QC Analysis Date 10/15/2015 6:17:15 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0016 ppm	0.0002 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.003 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	78.8 %	67.3 %	404.8 %	31.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	-0.0004 ppm	0.0010 ppm	0.0001 ppm	-0.0062 ppm
Concentration per Run 1	-0.001 ppm	0.003 ppm	0.000 ppm	-0.010 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	0.000 ppm	-0.005 ppm
Concentration per Run 3	0.000 ppm	-0.001 ppm	0.000 ppm	-0.004 ppm
Concentration RSD	226.3 %	205.1 %	173.0 %	50.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0012 ppm	0.0002 ppm	0.0397 ppm	-0.0014 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.024 ppm	0.001 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.065 ppm	-0.003 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.031 ppm	-0.002 ppm
Concentration RSD	19.3 %	16.6 %	54.7 %	163.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0281 ppm	-0.0010 ppm	0.0015 ppm	0.0176 ppm
Concentration per Run 1	-0.082 ppm	-0.002 ppm	0.002 ppm	0.014 ppm
Concentration per Run 2	0.007 ppm	0.000 ppm	0.004 ppm	0.028 ppm
Concentration per Run 3	-0.010 ppm	-0.002 ppm	-0.002 ppm	0.011 ppm
Concentration RSD	167.9 %	118.2 %	203.4 %	49.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0186 ppm	0.0438 ppm	0.0076 ppm	-0.2725 ppm
Concentration per Run 1	0.076 ppm	0.037 ppm	0.015 ppm	-0.161 ppm
Concentration per Run 2	-0.035 ppm	0.018 ppm	0.009 ppm	-0.440 ppm
Concentration per Run 3	0.015 ppm	0.076 ppm	-0.001 ppm	-0.216 ppm
Concentration RSD	298.2 %	67.6 %	105.4 %	54.3 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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QTEGRA

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0066 ppm	-0.0002 ppm	0.0000 ppm	-0.0010 ppm
Concentration per Run 1	0.006 ppm	0.000 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 2	0.007 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 3	0.007 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	12.2 %	87.0 %	601.9 %	126.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0001 ppm	0.0062 ppm	0.0005 ppm	0.0007 ppm
Concentration per Run 1	0.000 ppm	0.010 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.011 ppm	0.001 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	-0.002 ppm	0.001 ppm	0.001 ppm
Concentration RSD	198.2 %	113.6 %	64.3 %	17.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0051 ppm	0.0000 ppm	0.0002 ppm	0.0008 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	-0.009 ppm	0.000 ppm	0.001 ppm	0.001 ppm
Concentration per Run 3	-0.005 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	78.7 %	4,973.4 %	149.3 %	75.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0006 ppm	101.8562 %	100.5906 %	100.8640 %
Concentration per Run 1	0.000 ppm	101.893 %	99.948 %	101.100 %
Concentration per Run 2	0.003 ppm	101.863 %	100.356 %	100.767 %
Concentration per Run 3	-0.001 ppm	101.813 %	101.468 %	100.725 %
Concentration RSD	307.5 %	0.0 %	0.8 %	0.2 %
Concentration SD	0.0 ppm	0.0 %	0.8 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	104.0687 %	0.0166 ppm
Concentration per Run 1	104.126 %	0.014 ppm
Concentration per Run 2	103.972 %	-0.006 ppm
Concentration per Run 3	104.108 %	0.042 ppm
Concentration RSD	0.1 %	144.4 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	5 cps	2 cps	4 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-16 cps	9 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-1 cps	4 cps	14 cps	1 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	0 cps	16 cps	96 cps	29 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	-45 cps	-38 cps	-41 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	5 cps	-5 cps	-2 cps	-4 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	19 cps	1 cps	3 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-25 cps	54 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-1 cps	4,826 cps	8,142 cps	165,869 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,365 cps	0 cps

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CCV 15I21330

Sample Type QC Analysis Date 10/15/2015 6:51:46 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.9867 ppm	0.4883 ppm	0.4947 ppm	1.0389 ppm
Concentration per Run 1	1.985 ppm	0.489 ppm	0.495 ppm	1.038 ppm
Concentration per Run 2	1.990 ppm	0.488 ppm	0.495 ppm	1.037 ppm
Concentration per Run 3	1.985 ppm	0.489 ppm	0.494 ppm	1.042 ppm
Concentration RSD	0.2 %	0.1 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5127 ppm	2.0171 ppm	0.9922 ppm	1.9447 ppm
Concentration per Run 1	0.512 ppm	2.025 ppm	0.992 ppm	1.960 ppm
Concentration per Run 2	0.513 ppm	2.013 ppm	0.992 ppm	1.933 ppm
Concentration per Run 3	0.513 ppm	2.013 ppm	0.992 ppm	1.941 ppm
Concentration RSD	0.1 %	0.3 %	0.0 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0892 ppm	3.0941 ppm	9.6853 ppm	9.3110 ppm
Concentration per Run 1	2.091 ppm	3.092 ppm	9.715 ppm	9.330 ppm
Concentration per Run 2	2.085 ppm	3.090 ppm	9.735 ppm	9.283 ppm
Concentration per Run 3	2.092 ppm	3.100 ppm	9.607 ppm	9.320 ppm
Concentration RSD	0.2 %	0.2 %	0.7 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.4363 ppm	1.4973 ppm	49.3761 ppm	55.4741 ppm
Concentration per Run 1	10.549 ppm	1.502 ppm	49.422 ppm	55.728 ppm
Concentration per Run 2	10.405 ppm	1.492 ppm	49.260 ppm	55.188 ppm
Concentration per Run 3	10.354 ppm	1.498 ppm	49.447 ppm	55.507 ppm
Concentration RSD	1.0 %	0.3 %	0.2 %	0.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.1 ppm	0.3 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	9.9553 ppm	52.7542 ppm	50.7378 ppm	51.2683 ppm
Concentration per Run 1	9.965 ppm	52.860 ppm	50.882 ppm	51.502 ppm
Concentration per Run 2	9.922 ppm	52.644 ppm	50.619 ppm	51.287 ppm
Concentration per Run 3	9.978 ppm	52.759 ppm	50.712 ppm	51.016 ppm
Concentration RSD	0.3 %	0.2 %	0.3 %	0.5 %
Concentration SD	0.0 ppm	0.1 ppm	0.1 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.9539 ppm	0.1962 ppm	1.0304 ppm	2.0163 ppm
Concentration per Run 1	1.959 ppm	0.197 ppm	1.031 ppm	2.016 ppm
Concentration per Run 2	1.951 ppm	0.195 ppm	1.030 ppm	2.013 ppm
Concentration per Run 3	1.952 ppm	0.196 ppm	1.031 ppm	2.020 ppm
Concentration RSD	0.2 %	0.4 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.0190 ppm	0.9652 ppm	1.0362 ppm	0.4718 ppm
Concentration per Run 1	1.019 ppm	0.968 ppm	1.037 ppm	0.472 ppm
Concentration per Run 2	1.018 ppm	0.963 ppm	1.034 ppm	0.472 ppm
Concentration per Run 3	1.020 ppm	0.964 ppm	1.038 ppm	0.472 ppm
Concentration RSD	0.1 %	0.3 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.8698 ppm	1.0249 ppm	1.9867 ppm	1.9841 ppm
Concentration per Run 1	1.883 ppm	1.028 ppm	1.985 ppm	1.983 ppm
Concentration per Run 2	1.851 ppm	1.020 ppm	1.989 ppm	1.986 ppm
Concentration per Run 3	1.875 ppm	1.027 ppm	1.985 ppm	1.984 ppm
Concentration RSD	0.9 %	0.4 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7789 ppm	89.2258 %	99.2334 %	95.1560 %
Concentration per Run 1	4.769 ppm	89.036 %	99.348 %	95.267 %
Concentration per Run 2	4.773 ppm	89.354 %	98.810 %	95.073 %
Concentration per Run 3	4.795 ppm	89.288 %	99.541 %	95.128 %
Concentration RSD	0.3 %	0.2 %	0.4 %	0.1 %
Concentration SD	0.0 ppm	0.2 %	0.4 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	98.9885 %	0.0420 ppm
Concentration per Run 1	98.845 %	0.019 ppm
Concentration per Run 2	98.985 %	0.064 ppm
Concentration per Run 3	99.136 %	0.043 ppm
Concentration RSD	0.1 %	52.9 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	815 cps	3,542 cps	4,219 cps	8,670 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	368 cps	582 cps	8,615 cps	1,266 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,920 cps	16,209 cps	680 cps	5,225 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	285 cps	14,411 cps	26,264 cps	15,099 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	515 cps	28,883 cps	72,934 cps	4,929 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,035 cps	3,190 cps	5,268 cps	1,186 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,676 cps	461 cps	1,747 cps	937 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	574 cps	27,583 cps	4,682 cps	2,642 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,413 cps	4,228 cps	8,032 cps	156,483 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,517 cps	8 cps

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Sample Type QC Analysis Date 10/15/2015 6:54:33 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0019 ppm	0.0002 ppm	0.0000 ppm	0.0000 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	28.1 %	44.8 %	220.2 %	1,759.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0004 ppm	0.0032 ppm	0.0002 ppm	-0.0051 ppm
Concentration per Run 1	0.001 ppm	0.003 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 2	-0.001 ppm	0.004 ppm	0.000 ppm	-0.004 ppm
Concentration per Run 3	0.001 ppm	0.003 ppm	0.001 ppm	-0.009 ppm
Concentration RSD	188.8 %	15.0 %	299.7 %	72.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0399 ppm	0.0006 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.016 ppm	0.004 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	0.096 ppm	-0.002 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.040 ppm	0.000 ppm
Concentration RSD	192.7 %	127.4 %	140.1 %	502.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0562 ppm	0.0006 ppm	0.0037 ppm	0.0245 ppm
Concentration per Run 1	-0.089 ppm	0.002 ppm	0.006 ppm	0.033 ppm
Concentration per Run 2	0.177 ppm	-0.002 ppm	0.007 ppm	0.026 ppm
Concentration per Run 3	0.080 ppm	0.002 ppm	-0.002 ppm	0.014 ppm
Concentration RSD	239.4 %	303.7 %	125.7 %	39.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0165 ppm	0.0331 ppm	0.0069 ppm	-0.1108 ppm
Concentration per Run 1	0.014 ppm	0.010 ppm	-0.002 ppm	-0.177 ppm
Concentration per Run 2	0.034 ppm	0.068 ppm	0.016 ppm	-0.126 ppm
Concentration per Run 3	0.002 ppm	0.021 ppm	0.006 ppm	-0.030 ppm
Concentration RSD	97.7 %	92.8 %	133.3 %	67.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0069 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.008 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.008 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	17.4 %	156.7 %	3,619.1 %	392.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0005 ppm	0.0020 ppm	0.0006 ppm	0.0003 ppm
Concentration per Run 1	0.001 ppm	0.007 ppm	0.002 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.002 ppm	0.001 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	-0.003 ppm	-0.001 ppm	0.001 ppm
Concentration RSD	15.4 %	247.1 %	244.9 %	173.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0009 ppm	0.0000 ppm	0.0050 ppm	0.0008 ppm
Concentration per Run 1	-0.003 ppm	0.000 ppm	0.005 ppm	0.000 ppm
Concentration per Run 2	-0.005 ppm	0.000 ppm	0.005 ppm	0.001 ppm
Concentration per Run 3	0.005 ppm	0.000 ppm	0.005 ppm	0.001 ppm
Concentration RSD	529.4 %	350.5 %	6.2 %	68.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0021 ppm	101.8802 %	100.3199 %	101.2831 %
Concentration per Run 1	0.002 ppm	101.855 %	99.779 %	101.289 %
Concentration per Run 2	0.002 ppm	101.643 %	101.432 %	101.307 %
Concentration per Run 3	0.002 ppm	102.143 %	99.749 %	101.254 %
Concentration RSD	13.6 %	0.2 %	1.0 %	0.0 %
Concentration SD	0.0 ppm	0.3 %	1.0 %	0.0 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	103.9979 %	0.0118 ppm
Concentration per Run 1	103.944 %	0.013 ppm
Concentration per Run 2	103.932 %	0.048 ppm
Concentration per Run 3	104.118 %	-0.026 ppm
Concentration RSD	0.1 %	314.0 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	5 cps	2 cps	7 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	1 cps	-16 cps	9 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-4 cps	3 cps	14 cps	3 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2 cps	32 cps	97 cps	31 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	-51 cps	-39 cps	-26 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	5 cps	-1 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40 cps	-1 cps	3 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-26 cps	66 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-1 cps	4,828 cps	8,120 cps	166,559 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,353 cps	-2 cps

Comprehensive sample report

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CCV 15I21330

Sample Type QC Analysis Date 10/15/2015 7:14:04 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0035 ppm	0.4915 ppm	0.4983 ppm	1.0444 ppm
Concentration per Run 1	1.999 ppm	0.491 ppm	0.500 ppm	1.045 ppm
Concentration per Run 2	2.009 ppm	0.492 ppm	0.498 ppm	1.044 ppm
Concentration per Run 3	2.002 ppm	0.491 ppm	0.497 ppm	1.044 ppm
Concentration RSD	0.2 %	0.0 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5181 ppm	2.0367 ppm	0.9972 ppm	1.9568 ppm
Concentration per Run 1	0.517 ppm	2.031 ppm	0.996 ppm	1.962 ppm
Concentration per Run 2	0.519 ppm	2.040 ppm	1.001 ppm	1.951 ppm
Concentration per Run 3	0.518 ppm	2.039 ppm	0.995 ppm	1.958 ppm
Concentration RSD	0.1 %	0.2 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.1059 ppm	3.1356 ppm	9.8300 ppm	9.3885 ppm
Concentration per Run 1	2.106 ppm	3.134 ppm	9.780 ppm	9.355 ppm
Concentration per Run 2	2.103 ppm	3.137 ppm	9.808 ppm	9.385 ppm
Concentration per Run 3	2.109 ppm	3.136 ppm	9.903 ppm	9.426 ppm
Concentration RSD	0.1 %	0.0 %	0.7 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.4797 ppm	1.5284 ppm	49.6216 ppm	55.8912 ppm
Concentration per Run 1	10.474 ppm	1.524 ppm	49.346 ppm	55.647 ppm
Concentration per Run 2	10.487 ppm	1.533 ppm	49.928 ppm	56.132 ppm
Concentration per Run 3	10.477 ppm	1.528 ppm	49.591 ppm	55.895 ppm
Concentration RSD	0.1 %	0.3 %	0.6 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.3 ppm	0.2 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	9.9372 ppm	52.5874 ppm	51.7251 ppm	52.4013 ppm
Concentration per Run 1	9.861 ppm	52.436 ppm	51.559 ppm	52.509 ppm
Concentration per Run 2	9.961 ppm	52.625 ppm	51.928 ppm	52.140 ppm
Concentration per Run 3	9.989 ppm	52.701 ppm	51.689 ppm	52.555 ppm
Concentration RSD	0.7 %	0.3 %	0.4 %	0.4 %
Concentration SD	0.1 ppm	0.1 ppm	0.2 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.9575 ppm	0.1968 ppm	1.0401 ppm	2.0335 ppm
Concentration per Run 1	1.965 ppm	0.197 ppm	1.040 ppm	2.037 ppm
Concentration per Run 2	1.954 ppm	0.197 ppm	1.040 ppm	2.033 ppm
Concentration per Run 3	1.953 ppm	0.196 ppm	1.041 ppm	2.031 ppm
Concentration RSD	0.4 %	0.2 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.0248 ppm	0.9730 ppm	1.0336 ppm	0.4763 ppm
Concentration per Run 1	1.023 ppm	0.969 ppm	1.033 ppm	0.477 ppm
Concentration per Run 2	1.027 ppm	0.977 ppm	1.028 ppm	0.477 ppm
Concentration per Run 3	1.024 ppm	0.973 ppm	1.040 ppm	0.475 ppm
Concentration RSD	0.2 %	0.4 %	0.6 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.8984 ppm	1.0356 ppm	2.0209 ppm	2.0026 ppm
Concentration per Run 1	1.893 ppm	1.031 ppm	2.029 ppm	2.008 ppm
Concentration per Run 2	1.907 ppm	1.041 ppm	2.016 ppm	2.001 ppm
Concentration per Run 3	1.895 ppm	1.036 ppm	2.018 ppm	1.998 ppm
Concentration RSD	0.4 %	0.5 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.8515 ppm	89.2978 %	98.1880 %	95.0042 %
Concentration per Run 1	4.860 ppm	89.136 %	98.829 %	94.984 %
Concentration per Run 2	4.837 ppm	89.310 %	97.829 %	94.975 %
Concentration per Run 3	4.858 ppm	89.447 %	97.907 %	95.054 %
Concentration RSD	0.3 %	0.2 %	0.6 %	0.0 %
Concentration SD	0.0 ppm	0.2 %	0.6 %	0.0 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	99.2439 %	0.0467 ppm
Concentration per Run 1	99.074 %	0.081 ppm
Concentration per Run 2	99.237 %	0.012 ppm
Concentration per Run 3	99.421 %	0.047 ppm
Concentration RSD	0.2 %	74.0 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	824 cps	3,574 cps	4,261 cps	8,702 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	372 cps	589 cps	8,645 cps	1,261 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,955 cps	16,469 cps	683 cps	5,213 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	283 cps	14,554 cps	26,116 cps	15,052 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	509 cps	28,488 cps	73,569 cps	4,985 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,040 cps	3,167 cps	5,322 cps	1,197 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,841 cps	460 cps	1,724 cps	948 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	576 cps	27,580 cps	4,755 cps	2,673 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,438 cps	4,231 cps	7,948 cps	156,233 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,560 cps	9 cps

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Sample Type QC Analysis Date 10/15/2015 7:16:48 PM

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0013 ppm	0.0001 ppm	0.0001 ppm	-0.0005 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	31.0 %	47.2 %	307.0 %	75.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0009 ppm	0.0004 ppm	0.0008 ppm	-0.0045 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.001 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.003 ppm	0.000 ppm	-0.011 ppm
Concentration per Run 3	0.002 ppm	-0.002 ppm	0.000 ppm	-0.003 ppm
Concentration RSD	119.7 %	562.4 %	69.2 %	140.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	-0.0002 ppm	0.0002 ppm	0.0197 ppm	0.0075 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	0.050 ppm	0.012 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.006 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.009 ppm	0.004 ppm
Concentration RSD	328.1 %	34.4 %	136.7 %	57.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0336 ppm	0.0013 ppm	0.0095 ppm	0.0401 ppm
Concentration per Run 1	0.127 ppm	0.001 ppm	0.011 ppm	0.041 ppm
Concentration per Run 2	0.025 ppm	0.000 ppm	0.008 ppm	0.055 ppm
Concentration per Run 3	-0.051 ppm	0.003 ppm	0.010 ppm	0.025 ppm
Concentration RSD	266.4 %	104.8 %	19.2 %	37.9 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0053 ppm	0.7872 ppm	0.0562 ppm	-0.2328 ppm
Concentration per Run 1	0.055 ppm	0.872 ppm	0.056 ppm	-0.384 ppm
Concentration per Run 2	-0.005 ppm	0.775 ppm	0.061 ppm	-0.134 ppm
Concentration per Run 3	-0.034 ppm	0.714 ppm	0.052 ppm	-0.181 ppm
Concentration RSD	846.5 %	10.1 %	8.6 %	57.0 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0043 ppm	-0.0001 ppm	-0.0001 ppm	-0.0002 ppm
Concentration per Run 1	0.003 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.005 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 3	0.006 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	37.5 %	176.2 %	248.8 %	313.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0002 ppm	0.0078 ppm	-0.0005 ppm	0.0003 ppm
Concentration per Run 1	0.000 ppm	0.010 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.007 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.007 ppm	0.001 ppm	0.000 ppm
Concentration RSD	4.2 %	23.1 %	268.1 %	76.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0037 ppm	0.0002 ppm	0.0068 ppm	0.0003 ppm
Concentration per Run 1	0.003 ppm	0.000 ppm	0.007 ppm	0.001 ppm
Concentration per Run 2	0.004 ppm	0.000 ppm	0.005 ppm	0.001 ppm
Concentration per Run 3	0.005 ppm	0.000 ppm	0.008 ppm	-0.001 ppm
Concentration RSD	20.3 %	73.3 %	22.4 %	256.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0108 ppm	102.2571 %	98.5682 %	101.4273 %
Concentration per Run 1	0.013 ppm	102.009 %	98.636 %	100.976 %
Concentration per Run 2	0.011 ppm	102.372 %	98.624 %	101.858 %
Concentration per Run 3	0.008 ppm	102.391 %	98.444 %	101.448 %
Concentration RSD	21.8 %	0.2 %	0.1 %	0.4 %
Concentration SD	0.0 ppm	0.2 %	0.1 %	0.4 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	104.5556 %	0.0213 ppm
Concentration per Run 1	104.206 %	0.031 ppm
Concentration per Run 2	104.675 %	0.026 ppm
Concentration per Run 3	104.786 %	0.007 ppm
Concentration RSD	0.3 %	59.1 %
Concentration SD	0.3 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	4 cps	2 cps	3 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	1 cps	-10 cps	10 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-4 cps	4 cps	12 cps	6 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	38 cps	99 cps	35 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	361 cps	33 cps	-37 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	-3 cps	-3 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	26 cps	2 cps	1 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	4 cps	-19 cps	70 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2 cps	4,845 cps	7,978 cps	166,796 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,446 cps	1 cps

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Sample Type QC Analysis Date 10/15/2015 7:27:32 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0121 ppm	0.0051 ppm	0.0020 ppm	0.0095 ppm
Concentration per Run 1	0.014 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration per Run 2	0.011 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration per Run 3	0.011 ppm	0.005 ppm	0.002 ppm	0.009 ppm
Concentration RSD	10.8 %	1.6 %	5.6 %	2.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0055 ppm	0.0107 ppm	0.0054 ppm	0.0069 ppm
Concentration per Run 1	0.006 ppm	0.010 ppm	0.005 ppm	0.009 ppm
Concentration per Run 2	0.005 ppm	0.013 ppm	0.005 ppm	0.011 ppm
Concentration per Run 3	0.005 ppm	0.009 ppm	0.005 ppm	0.001 ppm
Concentration RSD	14.7 %	19.0 %	2.5 %	79.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0100 ppm	0.0533 ppm	0.2098 ppm	0.0958 ppm
Concentration per Run 1	0.010 ppm	0.054 ppm	0.252 ppm	0.094 ppm
Concentration per Run 2	0.010 ppm	0.053 ppm	0.198 ppm	0.092 ppm
Concentration per Run 3	0.010 ppm	0.053 ppm	0.180 ppm	0.101 ppm
Concentration RSD	2.1 %	0.5 %	17.8 %	4.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.1551 ppm	0.0170 ppm	1.0220 ppm	1.1646 ppm
Concentration per Run 1	0.198 ppm	0.018 ppm	1.023 ppm	1.153 ppm
Concentration per Run 2	0.068 ppm	0.017 ppm	1.024 ppm	1.159 ppm
Concentration per Run 3	0.200 ppm	0.016 ppm	1.019 ppm	1.182 ppm
Concentration RSD	48.8 %	5.4 %	0.2 %	1.3 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	1.0455 ppm	1.2786 ppm	1.1176 ppm	0.8969 ppm
Concentration per Run 1	1.035 ppm	1.228 ppm	1.114 ppm	0.885 ppm
Concentration per Run 2	1.033 ppm	1.305 ppm	1.131 ppm	0.877 ppm
Concentration per Run 3	1.068 ppm	1.303 ppm	1.108 ppm	0.928 ppm
Concentration RSD	1.9 %	3.4 %	1.1 %	3.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0099 ppm	0.0019 ppm	0.0100 ppm	0.0096 ppm
Concentration per Run 1	0.009 ppm	0.002 ppm	0.010 ppm	0.010 ppm
Concentration per Run 2	0.009 ppm	0.002 ppm	0.010 ppm	0.008 ppm
Concentration per Run 3	0.012 ppm	0.002 ppm	0.010 ppm	0.011 ppm
Concentration RSD	15.4 %	12.5 %	0.8 %	13.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0106 ppm	0.0249 ppm	0.0505 ppm	0.0051 ppm
Concentration per Run 1	0.011 ppm	0.022 ppm	0.051 ppm	0.005 ppm
Concentration per Run 2	0.011 ppm	0.024 ppm	0.051 ppm	0.005 ppm
Concentration per Run 3	0.011 ppm	0.029 ppm	0.049 ppm	0.005 ppm
Concentration RSD	0.7 %	15.7 %	2.0 %	5.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0425 ppm	0.0105 ppm	0.0487 ppm	0.0503 ppm
Concentration per Run 1	0.037 ppm	0.010 ppm	0.049 ppm	0.050 ppm
Concentration per Run 2	0.043 ppm	0.011 ppm	0.048 ppm	0.050 ppm
Concentration per Run 3	0.047 ppm	0.010 ppm	0.049 ppm	0.050 ppm
Concentration RSD	11.8 %	1.6 %	1.9 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.9161 ppm	101.5988 %	99.4314 %	101.7316 %
Concentration per Run 1	0.916 ppm	101.516 %	99.761 %	101.436 %
Concentration per Run 2	0.922 ppm	101.717 %	99.403 %	102.112 %
Concentration per Run 3	0.910 ppm	101.564 %	99.130 %	101.646 %
Concentration RSD	0.6 %	0.1 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	0.3 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	104.8738 %	0.0028 ppm
Concentration per Run 1	104.819 %	-0.020 ppm
Concentration per Run 2	104.995 %	-0.001 ppm
Concentration per Run 3	104.807 %	0.029 ppm
Concentration RSD	0.1 %	896.4 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1 cps	43 cps	20 cps	92 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	3 cps	4 cps	33 cps	17 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	18 cps	299 cps	26 cps	56 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	5 cps	190 cps	637 cps	341 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	54 cps	635 cps	1,563 cps	72 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	7 cps	29 cps	56 cps	3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	470 cps	10 cps	87 cps	14 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	16 cps	257 cps	175 cps	73 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	286 cps	4,814 cps	8,048 cps	167,296 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,499 cps	-5 cps

Comprehensive sample report

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QTEGRA

ICSA 15I21332

Sample Type QC Analysis Date 10/15/2015 7:30:42 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	-0.0139 ppm	0.0027 ppm	0.0008 ppm
Concentration per Run 1	-0.014 ppm	0.003 ppm	0.001 ppm
Concentration per Run 2	-0.013 ppm	0.003 ppm	0.001 ppm
Concentration per Run 3	-0.014 ppm	0.003 ppm	0.001 ppm
Concentration RSD	5.1 %	4.6 %	8.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0012 ppm	-0.0337 ppm	0.0119 ppm
Concentration per Run 1	0.001 ppm	-0.036 ppm	0.010 ppm
Concentration per Run 2	0.001 ppm	-0.032 ppm	0.013 ppm
Concentration per Run 3	0.002 ppm	-0.033 ppm	0.013 ppm
Concentration RSD	46.5 %	4.8 %	12.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	-0.0011 ppm	0.0014 ppm	0.0105 ppm
Concentration per Run 1	-0.001 ppm	0.003 ppm	0.011 ppm
Concentration per Run 2	-0.001 ppm	0.009 ppm	0.010 ppm
Concentration per Run 3	-0.001 ppm	-0.008 ppm	0.011 ppm
Concentration RSD	28.9 %	657.5 %	2.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0065 ppm	477.2923 ppm	167.3969 ppm
Concentration per Run 1	0.006 ppm	477.971 ppm	167.450 ppm
Concentration per Run 2	0.007 ppm	476.219 ppm	167.183 ppm
Concentration per Run 3	0.006 ppm	477.687 ppm	167.558 ppm
Concentration RSD	8.4 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.9 ppm	0.2 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	188.7801 ppm	0.0172 ppm	453.1980 ppm
Concentration per Run 1	189.300 ppm	0.018 ppm	452.024 ppm
Concentration per Run 2	188.042 ppm	0.017 ppm	454.165 ppm
Concentration per Run 3	188.998 ppm	0.016 ppm	453.404 ppm
Concentration RSD	0.3 %	6.8 %	0.2 %
Concentration SD	0.7 ppm	0.0 ppm	1.1 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	523.1076 ppm	487.1812 ppm	0.4277 ppm
Concentration per Run 1	524.346 ppm	488.051 ppm	0.450 ppm

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QTEGRA

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	521.839 ppm	486.669 ppm	0.396 ppm
Concentration per Run 3	523.137 ppm	486.823 ppm	0.437 ppm
Concentration RSD	0.2 %	0.2 %	6.6 %
Concentration SD	1.3 ppm	0.8 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	0.2797 ppm	0.3012 ppm	0.0089 ppm
Concentration per Run 1	0.270 ppm	0.537 ppm	0.007 ppm
Concentration per Run 2	0.277 ppm	0.281 ppm	0.009 ppm
Concentration per Run 3	0.292 ppm	0.085 ppm	0.011 ppm
Concentration RSD	4.2 %	75.1 %	19.1 %
Concentration SD	0.0 ppm	0.2 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0000 ppm	-0.0007 ppm	-0.0087 ppm
Concentration per Run 1	0.000 ppm	-0.001 ppm	-0.008 ppm
Concentration per Run 2	0.000 ppm	-0.001 ppm	-0.009 ppm
Concentration per Run 3	0.000 ppm	-0.001 ppm	-0.009 ppm
Concentration RSD	306.9 %	30.7 %	4.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.0042 ppm	0.0090 ppm	0.0263 ppm
Concentration per Run 1	0.004 ppm	0.005 ppm	0.028 ppm
Concentration per Run 2	0.004 ppm	0.017 ppm	0.023 ppm
Concentration per Run 3	0.004 ppm	0.004 ppm	0.029 ppm
Concentration RSD	0.4 %	77.6 %	11.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0006 ppm	-0.0084 ppm	0.0065 ppm
Concentration per Run 1	0.001 ppm	-0.007 ppm	0.006 ppm
Concentration per Run 2	0.001 ppm	-0.008 ppm	0.007 ppm
Concentration per Run 3	0.000 ppm	-0.010 ppm	0.007 ppm
Concentration RSD	43.7 %	17.9 %	3.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	-0.0056 ppm	0.0009 ppm	0.0142 ppm
Concentration per Run 1	-0.005 ppm	0.001 ppm	0.013 ppm
Concentration per Run 2	-0.007 ppm	0.000 ppm	0.013 ppm
Concentration per Run 3	-0.005 ppm	0.002 ppm	0.017 ppm
Concentration RSD	15.9 %	93.8 %	15.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	74.3191 %	93.6996 %	85.2569 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	74.307 %	94.131 %	85.432 %
Concentration per Run 2	74.124 %	93.535 %	85.155 %
Concentration per Run 3	74.526 %	93.433 %	85.184 %
Concentration RSD	0.3 %	0.4 %	0.2 %
Concentration SD	0.2 %	0.4 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	89.6987 %	0.1264 ppm
Concentration per Run 1	89.674 %	0.127 ppm
Concentration per Run 2	89.573 %	0.152 ppm
Concentration per Run 3	89.849 %	0.100 ppm
Concentration RSD	0.2 %	20.3 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-9 cps	21 cps	8 cps	14 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-22 cps	4 cps	-23 cps	13 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	14 cps	33 cps	31,139 cps	88,670 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	4,858 cps	181 cps	226,893 cps	134,246 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	23,800 cps	157 cps	334 cps	14 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	6 cps	-2 cps	-5 cps	-6 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	163 cps	2 cps	44 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	1 cps	142 cps	33 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2 cps	3,522 cps	7,584 cps	140,204 cps

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	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	14,967 cps	34 cps

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QTEGRA

ICSAB 15I21333

Sample Type QC Analysis Date 10/15/2015 7:33:56 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.4950 ppm	0.4792 ppm	1.0194 ppm
Concentration per Run 1	0.501 ppm	0.479 ppm	1.020 ppm
Concentration per Run 2	0.495 ppm	0.481 ppm	1.020 ppm
Concentration per Run 3	0.489 ppm	0.478 ppm	1.018 ppm
Concentration RSD	1.2 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4943 ppm	1.0034 ppm	0.5267 ppm
Concentration per Run 1	0.492 ppm	1.005 ppm	0.526 ppm
Concentration per Run 2	0.496 ppm	1.005 ppm	0.530 ppm
Concentration per Run 3	0.495 ppm	1.000 ppm	0.524 ppm
Concentration RSD	0.4 %	0.3 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	1.1097 ppm	0.4900 ppm	1.0593 ppm
Concentration per Run 1	1.111 ppm	0.491 ppm	1.058 ppm
Concentration per Run 2	1.110 ppm	0.490 ppm	1.065 ppm
Concentration per Run 3	1.108 ppm	0.489 ppm	1.055 ppm
Concentration RSD	0.1 %	0.3 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.9706 ppm	482.6175 ppm	170.6109 ppm
Concentration per Run 1	0.969 ppm	485.463 ppm	171.672 ppm
Concentration per Run 2	0.973 ppm	480.737 ppm	169.805 ppm
Concentration per Run 3	0.971 ppm	481.653 ppm	170.355 ppm
Concentration RSD	0.2 %	0.5 %	0.6 %
Concentration SD	0.0 ppm	2.5 ppm	1.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	192.0420 ppm	0.0165 ppm	457.4539 ppm
Concentration per Run 1	192.463 ppm	0.015 ppm	456.194 ppm
Concentration per Run 2	191.493 ppm	0.017 ppm	457.310 ppm
Concentration per Run 3	192.170 ppm	0.018 ppm	458.857 ppm
Concentration RSD	0.3 %	8.3 %	0.3 %
Concentration SD	0.5 ppm	0.0 ppm	1.3 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	527.9661 ppm	495.3765 ppm	0.5157 ppm
Concentration per Run 1	531.269 ppm	499.272 ppm	0.534 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	525.758 ppm	492.332 ppm	0.482 ppm
Concentration per Run 3	526.871 ppm	494.525 ppm	0.532 ppm
Concentration RSD	0.6 %	0.7 %	5.7 %
Concentration SD	2.9 ppm	3.5 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	0.3021 ppm	0.2598 ppm	0.5025 ppm
Concentration per Run 1	0.303 ppm	0.156 ppm	0.503 ppm
Concentration per Run 2	0.296 ppm	0.162 ppm	0.504 ppm
Concentration per Run 3	0.307 ppm	0.461 ppm	0.501 ppm
Concentration RSD	1.8 %	67.0 %	0.3 %
Concentration SD	0.0 ppm	0.2 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.4786 ppm	0.5268 ppm	0.4770 ppm
Concentration per Run 1	0.479 ppm	0.526 ppm	0.479 ppm
Concentration per Run 2	0.478 ppm	0.529 ppm	0.478 ppm
Concentration per Run 3	0.479 ppm	0.525 ppm	0.474 ppm
Concentration RSD	0.2 %	0.3 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.4947 ppm	0.4706 ppm	0.5179 ppm
Concentration per Run 1	0.494 ppm	0.463 ppm	0.516 ppm
Concentration per Run 2	0.495 ppm	0.471 ppm	0.520 ppm
Concentration per Run 3	0.495 ppm	0.477 ppm	0.517 ppm
Concentration RSD	0.2 %	1.4 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.4581 ppm	0.9308 ppm	0.0065 ppm
Concentration per Run 1	0.458 ppm	0.920 ppm	0.007 ppm
Concentration per Run 2	0.457 ppm	0.931 ppm	0.006 ppm
Concentration per Run 3	0.459 ppm	0.941 ppm	0.006 ppm
Concentration RSD	0.2 %	1.1 %	4.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	0.9679 ppm	0.4533 ppm	0.0214 ppm
Concentration per Run 1	0.968 ppm	0.453 ppm	0.022 ppm
Concentration per Run 2	0.965 ppm	0.456 ppm	0.022 ppm
Concentration per Run 3	0.970 ppm	0.451 ppm	0.020 ppm
Concentration RSD	0.3 %	0.6 %	4.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	73.9425 %	92.1782 %	85.5965 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	73.883 %	91.761 %	85.819 %
Concentration per Run 2	73.873 %	92.506 %	85.464 %
Concentration per Run 3	74.072 %	92.267 %	85.507 %
Concentration RSD	0.2 %	0.4 %	0.2 %
Concentration SD	0.1 %	0.4 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	89.7260 %	0.1081 ppm
Concentration per Run 1	89.734 %	0.117 ppm
Concentration per Run 2	89.799 %	0.125 ppm
Concentration per Run 3	89.645 %	0.082 ppm
Concentration RSD	0.1 %	20.8 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	181 cps	3,151 cps	7,879 cps	3,714 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	598 cps	138 cps	8,669 cps	305 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1,646 cps	4,611 cps	30,975 cps	88,904 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	4,862 cps	172 cps	225,307 cps	133,290 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	23,807 cps	199 cps	359 cps	10 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	242 cps	7,232 cps	2,231 cps	231 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	17,769 cps	208 cps	812 cps	824 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	267 cps	141 cps	2,075 cps	548 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	4 cps	3,504 cps	7,461 cps	140,762 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	14,971 cps	28 cps

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Sample Type UNKNOWN Analysis Date 10/15/2015 7:36:54 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0014 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	50.8 %	366.5 %	129.7 %	97.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0002 ppm	-0.0010 ppm	-0.0002 ppm	-0.0003 ppm
Concentration per Run 1	0.000 ppm	-0.001 ppm	0.000 ppm	-0.008 ppm
Concentration per Run 2	0.001 ppm	-0.003 ppm	0.000 ppm	0.004 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	-0.001 ppm	0.003 ppm
Concentration RSD	294.5 %	169.6 %	278.6 %	2,340.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0659 ppm	0.0073 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.112 ppm	0.011 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.036 ppm	0.008 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.049 ppm	0.003 ppm
Concentration RSD	529.8 %	62.4 %	61.5 %	53.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0393 ppm	0.0018 ppm	0.0157 ppm	0.0494 ppm
Concentration per Run 1	0.036 ppm	0.003 ppm	0.018 ppm	0.059 ppm
Concentration per Run 2	0.101 ppm	0.002 ppm	0.011 ppm	0.053 ppm
Concentration per Run 3	-0.019 ppm	0.001 ppm	0.018 ppm	0.036 ppm
Concentration RSD	153.5 %	64.9 %	27.4 %	24.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0634 ppm	0.2313 ppm	0.0444 ppm	-0.0548 ppm
Concentration per Run 1	0.086 ppm	0.236 ppm	0.044 ppm	-0.055 ppm
Concentration per Run 2	0.071 ppm	0.233 ppm	0.055 ppm	-0.095 ppm
Concentration per Run 3	0.033 ppm	0.225 ppm	0.034 ppm	-0.015 ppm
Concentration RSD	42.7 %	2.6 %	23.1 %	73.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0009 ppm	-0.0001 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	78.4 %	166.1 %	215.1 %	142.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0000 ppm	0.0033 ppm	0.0004 ppm	0.0002 ppm
Concentration per Run 1	0.000 ppm	0.008 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.003 ppm	0.001 ppm	0.000 ppm
Concentration RSD	159.7 %	118.5 %	112.3 %	41.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0147 ppm	-0.0001 ppm	-0.0016 ppm	0.0003 ppm
Concentration per Run 1	-0.011 ppm	0.000 ppm	-0.002 ppm	0.000 ppm
Concentration per Run 2	-0.013 ppm	0.000 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 3	-0.020 ppm	0.000 ppm	-0.002 ppm	0.000 ppm
Concentration RSD	32.2 %	52.5 %	52.8 %	190.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0088 ppm	102.5850 %	95.5902 %	101.7136 %
Concentration per Run 1	0.009 ppm	102.357 %	95.548 %	101.832 %
Concentration per Run 2	0.008 ppm	102.690 %	95.749 %	101.381 %
Concentration per Run 3	0.010 ppm	102.708 %	95.474 %	101.927 %
Concentration RSD	12.1 %	0.2 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.2 %	0.1 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	104.7265 %	-0.0239 ppm
Concentration per Run 1	104.492 %	0.002 ppm
Concentration per Run 2	104.808 %	-0.059 ppm
Concentration per Run 3	104.879 %	-0.014 ppm
Concentration RSD	0.2 %	132.7 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	4 cps	1 cps	5 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	0 cps	-20 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	2 cps	15 cps	6 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2 cps	41 cps	99 cps	36 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	3 cps	56 cps	15 cps	-19 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	-3 cps	-3 cps	-4 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	15 cps	0 cps	3 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	-1 cps	-26 cps	49 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1 cps	4,861 cps	7,737 cps	167,267 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,474 cps	-13 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.9865 ppm	0.4919 ppm	0.4962 ppm	1.0411 ppm
Concentration per Run 1	1.990 ppm	0.492 ppm	0.496 ppm	1.038 ppm
Concentration per Run 2	1.993 ppm	0.492 ppm	0.496 ppm	1.041 ppm
Concentration per Run 3	1.977 ppm	0.492 ppm	0.497 ppm	1.045 ppm
Concentration RSD	0.4 %	0.1 %	0.1 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5160 ppm	2.0208 ppm	0.9883 ppm	1.9258 ppm
Concentration per Run 1	0.516 ppm	2.027 ppm	0.987 ppm	1.917 ppm
Concentration per Run 2	0.516 ppm	2.025 ppm	0.991 ppm	1.929 ppm
Concentration per Run 3	0.516 ppm	2.010 ppm	0.987 ppm	1.932 ppm
Concentration RSD	0.1 %	0.4 %	0.2 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0915 ppm	3.1256 ppm	9.6945 ppm	9.4943 ppm
Concentration per Run 1	2.090 ppm	3.123 ppm	9.673 ppm	9.491 ppm
Concentration per Run 2	2.091 ppm	3.126 ppm	9.743 ppm	9.493 ppm
Concentration per Run 3	2.093 ppm	3.129 ppm	9.667 ppm	9.499 ppm
Concentration RSD	0.1 %	0.1 %	0.4 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.3687 ppm	1.5479 ppm	48.9425 ppm	55.2947 ppm
Concentration per Run 1	10.397 ppm	1.551 ppm	49.033 ppm	55.425 ppm
Concentration per Run 2	10.416 ppm	1.550 ppm	48.960 ppm	55.389 ppm
Concentration per Run 3	10.294 ppm	1.543 ppm	48.834 ppm	55.070 ppm
Concentration RSD	0.6 %	0.3 %	0.2 %	0.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.1 ppm	0.2 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	9.9890 ppm	54.5953 ppm	52.5146 ppm	53.9762 ppm
Concentration per Run 1	10.019 ppm	54.564 ppm	52.556 ppm	54.025 ppm
Concentration per Run 2	9.957 ppm	54.684 ppm	52.577 ppm	53.845 ppm
Concentration per Run 3	9.991 ppm	54.538 ppm	52.411 ppm	54.059 ppm
Concentration RSD	0.3 %	0.1 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.1 ppm	0.1 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.9498 ppm	0.1956 ppm	1.0354 ppm	2.0033 ppm
Concentration per Run 1	1.959 ppm	0.196 ppm	1.035 ppm	2.001 ppm
Concentration per Run 2	1.948 ppm	0.195 ppm	1.035 ppm	2.008 ppm
Concentration per Run 3	1.942 ppm	0.195 ppm	1.036 ppm	2.001 ppm
Concentration RSD	0.5 %	0.2 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.0198 ppm	0.9688 ppm	1.0159 ppm	0.4890 ppm
Concentration per Run 1	1.017 ppm	0.974 ppm	1.016 ppm	0.489 ppm
Concentration per Run 2	1.021 ppm	0.966 ppm	1.017 ppm	0.489 ppm
Concentration per Run 3	1.022 ppm	0.967 ppm	1.014 ppm	0.489 ppm
Concentration RSD	0.3 %	0.4 %	0.1 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.9218 ppm	1.0204 ppm	1.9963 ppm	1.9780 ppm
Concentration per Run 1	1.914 ppm	1.022 ppm	2.002 ppm	1.977 ppm
Concentration per Run 2	1.927 ppm	1.021 ppm	1.993 ppm	1.977 ppm
Concentration per Run 3	1.925 ppm	1.019 ppm	1.994 ppm	1.980 ppm
Concentration RSD	0.3 %	0.1 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7877 ppm	89.7844 %	94.7868 %	95.3742 %
Concentration per Run 1	4.799 ppm	89.818 %	94.492 %	95.461 %
Concentration per Run 2	4.784 ppm	89.852 %	94.944 %	95.311 %
Concentration per Run 3	4.780 ppm	89.683 %	94.924 %	95.351 %
Concentration RSD	0.2 %	0.1 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	0.1 %	0.3 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	99.6614 %	0.0167 ppm
Concentration per Run 1	99.598 %	0.007 ppm
Concentration per Run 2	99.798 %	0.030 ppm
Concentration per Run 3	99.588 %	0.013 ppm
Concentration RSD	0.1 %	72.6 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	821 cps	3,592 cps	4,260 cps	8,709 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	373 cps	587 cps	8,601 cps	1,198 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,949 cps	16,486 cps	650 cps	5,089 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	270 cps	14,229 cps	24,868 cps	14,376 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	494 cps	28,554 cps	72,106 cps	4,958 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,040 cps	3,038 cps	5,327 cps	1,186 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,802 cps	442 cps	1,636 cps	977 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	563 cps	26,234 cps	4,716 cps	2,652 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,425 cps	4,254 cps	7,672 cps	156,842 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,629 cps	0 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0038 ppm	0.0000 ppm	0.0001 ppm	-0.0004 ppm
Concentration per Run 1	0.003 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.005 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.004 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	22.7 %	1,823.7 %	190.3 %	67.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0004 ppm	0.0028 ppm	0.0004 ppm	-0.0035 ppm
Concentration per Run 1	0.001 ppm	-0.001 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 2	0.000 ppm	0.005 ppm	0.001 ppm	0.003 ppm
Concentration per Run 3	0.000 ppm	0.004 ppm	0.000 ppm	-0.011 ppm
Concentration RSD	79.5 %	108.4 %	93.5 %	193.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0001 ppm	-0.0002 ppm	0.0253 ppm	-0.0008 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.041 ppm	-0.003 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.004 ppm	0.002 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.031 ppm	-0.001 ppm
Concentration RSD	43.0 %	31.3 %	75.5 %	337.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0763 ppm	0.0000 ppm	0.0029 ppm	0.0263 ppm
Concentration per Run 1	-0.085 ppm	-0.001 ppm	-0.005 ppm	0.012 ppm
Concentration per Run 2	-0.047 ppm	0.000 ppm	0.001 ppm	0.019 ppm
Concentration per Run 3	-0.096 ppm	0.002 ppm	0.012 ppm	0.048 ppm
Concentration RSD	33.5 %	288,572.3 %	286.8 %	72.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0055 ppm	0.2513 ppm	0.0030 ppm	-0.1408 ppm
Concentration per Run 1	-0.015 ppm	0.258 ppm	0.005 ppm	-0.183 ppm
Concentration per Run 2	0.033 ppm	0.251 ppm	0.008 ppm	-0.191 ppm
Concentration per Run 3	-0.002 ppm	0.245 ppm	-0.003 ppm	-0.048 ppm
Concentration RSD	454.2 %	2.7 %	181.3 %	56.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0058 ppm	0.0000 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.006 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.006 ppm	0.000 ppm	0.000 ppm	-0.003 ppm
Concentration RSD	8.4 %	14.4 %	357.1 %	220.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0001 ppm	0.0034 ppm	0.0001 ppm	0.0004 ppm
Concentration per Run 1	0.000 ppm	0.008 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	0.001 ppm	0.001 ppm
Concentration RSD	160.9 %	123.7 %	896.7 %	23.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0046 ppm	0.0001 ppm	0.0010 ppm	0.0008 ppm
Concentration per Run 1	-0.009 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	0.002 ppm	0.001 ppm
Concentration per Run 3	-0.004 ppm	0.000 ppm	0.001 ppm	0.000 ppm
Concentration RSD	87.1 %	243.2 %	49.2 %	67.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0027 ppm	102.9919 %	95.2585 %	101.5409 %
Concentration per Run 1	0.005 ppm	102.988 %	95.441 %	101.338 %
Concentration per Run 2	0.001 ppm	102.887 %	96.132 %	101.644 %
Concentration per Run 3	0.002 ppm	103.101 %	94.202 %	101.640 %
Concentration RSD	83.6 %	0.1 %	1.0 %	0.2 %
Concentration SD	0.0 ppm	0.1 %	1.0 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	104.8147 %	-0.0032 ppm
Concentration per Run 1	104.851 %	0.024 ppm
Concentration per Run 2	104.686 %	0.000 ppm
Concentration per Run 3	104.907 %	-0.034 ppm
Concentration RSD	0.1 %	908.8 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	3 cps	2 cps	4 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-14 cps	10 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	2 cps	12 cps	2 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	-1 cps	25 cps	92 cps	30 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	67 cps	-42 cps	-27 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	5 cps	-3 cps	-2 cps	-4 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	19 cps	0 cps	2 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-22 cps	56 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-1 cps	4,880 cps	7,711 cps	166,983 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,489 cps	-6 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	1.9892 ppm	0.4907 ppm	0.4967 ppm	1.0467 ppm
Concentration per Run 1	1.996 ppm	0.492 ppm	0.497 ppm	1.046 ppm
Concentration per Run 2	1.989 ppm	0.491 ppm	0.497 ppm	1.047 ppm
Concentration per Run 3	1.983 ppm	0.490 ppm	0.496 ppm	1.046 ppm
Concentration RSD	0.3 %	0.2 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5160 ppm	2.0217 ppm	0.9881 ppm	1.9400 ppm
Concentration per Run 1	0.516 ppm	2.025 ppm	0.988 ppm	1.944 ppm
Concentration per Run 2	0.517 ppm	2.022 ppm	0.986 ppm	1.937 ppm
Concentration per Run 3	0.514 ppm	2.018 ppm	0.990 ppm	1.939 ppm
Concentration RSD	0.3 %	0.2 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0902 ppm	3.1215 ppm	9.8436 ppm	9.6265 ppm
Concentration per Run 1	2.095 ppm	3.123 ppm	9.895 ppm	9.660 ppm
Concentration per Run 2	2.087 ppm	3.120 ppm	9.803 ppm	9.632 ppm
Concentration per Run 3	2.088 ppm	3.121 ppm	9.832 ppm	9.588 ppm
Concentration RSD	0.2 %	0.0 %	0.5 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.7178 ppm	1.5687 ppm	49.2470 ppm	55.2737 ppm
Concentration per Run 1	10.689 ppm	1.573 ppm	49.617 ppm	55.621 ppm
Concentration per Run 2	10.691 ppm	1.567 ppm	49.106 ppm	55.171 ppm
Concentration per Run 3	10.774 ppm	1.566 ppm	49.018 ppm	55.029 ppm
Concentration RSD	0.5 %	0.2 %	0.7 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.3 ppm	0.3 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.1294 ppm	55.3519 ppm	52.9873 ppm	54.7692 ppm
Concentration per Run 1	10.221 ppm	55.633 ppm	53.293 ppm	54.736 ppm
Concentration per Run 2	10.025 ppm	55.220 ppm	52.943 ppm	54.608 ppm
Concentration per Run 3	10.143 ppm	55.202 ppm	52.726 ppm	54.964 ppm
Concentration RSD	1.0 %	0.4 %	0.5 %	0.3 %
Concentration SD	0.1 ppm	0.2 ppm	0.3 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.9481 ppm	0.1969 ppm	1.0312 ppm	1.9992 ppm
Concentration per Run 1	1.952 ppm	0.198 ppm	1.032 ppm	2.001 ppm
Concentration per Run 2	1.945 ppm	0.196 ppm	1.030 ppm	2.003 ppm
Concentration per Run 3	1.948 ppm	0.197 ppm	1.031 ppm	1.993 ppm
Concentration RSD	0.2 %	0.4 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.0179 ppm	0.9712 ppm	1.0201 ppm	0.4843 ppm
Concentration per Run 1	1.017 ppm	0.971 ppm	1.025 ppm	0.484 ppm
Concentration per Run 2	1.017 ppm	0.966 ppm	1.022 ppm	0.484 ppm
Concentration per Run 3	1.019 ppm	0.977 ppm	1.013 ppm	0.484 ppm
Concentration RSD	0.1 %	0.5 %	0.6 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.9361 ppm	1.0247 ppm	1.9852 ppm	1.9838 ppm
Concentration per Run 1	1.946 ppm	1.029 ppm	1.979 ppm	1.985 ppm
Concentration per Run 2	1.923 ppm	1.023 ppm	1.984 ppm	1.984 ppm
Concentration per Run 3	1.939 ppm	1.022 ppm	1.992 ppm	1.983 ppm
Concentration RSD	0.6 %	0.4 %	0.3 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7851 ppm	90.1611 %	94.5334 %	95.7441 %
Concentration per Run 1	4.797 ppm	90.040 %	93.580 %	95.744 %
Concentration per Run 2	4.799 ppm	90.313 %	94.716 %	95.744 %
Concentration per Run 3	4.759 ppm	90.131 %	95.304 %	95.745 %
Concentration RSD	0.5 %	0.2 %	0.9 %	0.0 %
Concentration SD	0.0 ppm	0.1 %	0.9 %	0.0 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	99.9230 %	0.0643 ppm
Concentration per Run 1	99.875 %	0.081 ppm
Concentration per Run 2	100.010 %	0.057 ppm
Concentration per Run 3	99.884 %	0.055 ppm
Concentration RSD	0.1 %	22.5 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	824 cps	3,593 cps	4,277 cps	8,789 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	374 cps	589 cps	8,633 cps	1,203 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,963 cps	16,507 cps	658 cps	5,146 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	279 cps	14,381 cps	24,954 cps	14,331 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	499 cps	28,873 cps	72,559 cps	5,017 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,042 cps	3,050 cps	5,328 cps	1,188 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,883 cps	442 cps	1,638 cps	970 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	566 cps	26,272 cps	4,708 cps	2,666 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,428 cps	4,272 cps	7,652 cps	157,450 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,673 cps	15 cps

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CCB

Sample Type QC Analysis Date 10/15/2015 8:56:42 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0026 ppm	0.0001 ppm	0.0001 ppm	-0.0005 ppm
Concentration per Run 1	0.004 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.003 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	47.8 %	76.1 %	162.0 %	91.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0010 ppm	0.0003 ppm	-0.0003 ppm	-0.0003 ppm
Concentration per Run 1	0.002 ppm	0.001 ppm	0.000 ppm	-0.003 ppm
Concentration per Run 2	0.001 ppm	-0.001 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	0.000 ppm	0.003 ppm
Concentration RSD	102.1 %	264.3 %	88.4 %	881.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0002 ppm	0.0023 ppm	0.0345 ppm	0.0069 ppm
Concentration per Run 1	0.000 ppm	0.002 ppm	0.001 ppm	0.004 ppm
Concentration per Run 2	0.000 ppm	0.002 ppm	0.022 ppm	0.010 ppm
Concentration per Run 3	0.000 ppm	0.002 ppm	0.081 ppm	0.007 ppm
Concentration RSD	91.0 %	2.7 %	119.9 %	43.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0009 ppm	0.0015 ppm	-0.0018 ppm	0.0175 ppm
Concentration per Run 1	0.005 ppm	0.001 ppm	-0.011 ppm	0.009 ppm
Concentration per Run 2	0.043 ppm	0.002 ppm	0.003 ppm	0.016 ppm
Concentration per Run 3	-0.051 ppm	0.002 ppm	0.003 ppm	0.028 ppm
Concentration RSD	5,209.0 %	37.9 %	454.7 %	54.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0427 ppm	0.1747 ppm	0.0082 ppm	-0.0667 ppm
Concentration per Run 1	0.072 ppm	0.181 ppm	0.012 ppm	0.024 ppm
Concentration per Run 2	0.043 ppm	0.195 ppm	0.006 ppm	-0.033 ppm
Concentration per Run 3	0.013 ppm	0.148 ppm	0.007 ppm	-0.191 ppm
Concentration RSD	69.7 %	13.7 %	37.6 %	167.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0061 ppm	0.0000 ppm	0.0001 ppm	-0.0008 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.007 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.006 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	19.6 %	746.5 %	141.1 %	90.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0002 ppm	0.0013 ppm	-0.0003 ppm	0.0006 ppm
Concentration per Run 1	0.000 ppm	-0.003 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.003 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.004 ppm	0.001 ppm	0.000 ppm
Concentration RSD	14.1 %	270.7 %	401.7 %	91.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0018 ppm	0.0000 ppm	-0.0002 ppm	0.0007 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	-0.002 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.006 ppm	0.000 ppm	-0.001 ppm	0.001 ppm
Concentration RSD	216.2 %	460.1 %	196.8 %	28.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0007 ppm	103.0261 %	94.4671 %	101.5128 %
Concentration per Run 1	0.002 ppm	102.804 %	95.317 %	101.619 %
Concentration per Run 2	0.000 ppm	103.154 %	93.442 %	101.495 %
Concentration per Run 3	0.000 ppm	103.120 %	94.642 %	101.425 %
Concentration RSD	116.9 %	0.2 %	1.0 %	0.1 %
Concentration SD	0.0 ppm	0.2 %	0.9 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	104.9333 %	0.0168 ppm
Concentration per Run 1	104.816 %	0.000 ppm
Concentration per Run 2	104.966 %	0.021 ppm
Concentration per Run 3	105.018 %	0.029 ppm
Concentration RSD	0.1 %	88.4 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	5 cps	3 cps	2 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	1 cps	-20 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	16 cps	13 cps	6 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	0 cps	38 cps	89 cps	28 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2 cps	26 cps	-34 cps	-20 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	5 cps	-2 cps	-2 cps	-4 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	26 cps	-1 cps	1 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	4 cps	-23 cps	53 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-1 cps	4,882 cps	7,647 cps	166,936 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,509 cps	0 cps

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INSTBLK

Sample Type UNKNOWN Analysis Date 10/15/2015 9:31:32 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0023 ppm	0.0000 ppm	0.0000 ppm	-0.0008 ppm
Concentration per Run 1	0.004 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.003 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	97.5 %	303.4 %	748.0 %	49.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0008 ppm	-0.0003 ppm	0.0005 ppm	-0.0016 ppm
Concentration per Run 1	0.002 ppm	-0.002 ppm	0.001 ppm	-0.003 ppm
Concentration per Run 2	0.001 ppm	0.002 ppm	0.000 ppm	-0.004 ppm
Concentration per Run 3	0.000 ppm	-0.001 ppm	0.001 ppm	0.001 ppm
Concentration RSD	92.9 %	718.1 %	87.9 %	164.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0007 ppm	-0.0013 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	-0.012 ppm	-0.003 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.019 ppm	-0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.004 ppm	0.000 ppm
Concentration RSD	201.8 %	448.4 %	2,255.7 %	127.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0387 ppm	0.0003 ppm	-0.0039 ppm	0.0246 ppm
Concentration per Run 1	0.114 ppm	0.001 ppm	-0.006 ppm	0.035 ppm
Concentration per Run 2	-0.038 ppm	-0.001 ppm	-0.003 ppm	0.034 ppm
Concentration per Run 3	0.040 ppm	0.001 ppm	-0.003 ppm	0.005 ppm
Concentration RSD	196.1 %	365.8 %	43.8 %	70.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0006 ppm	0.1107 ppm	-0.0002 ppm	-0.2269 ppm
Concentration per Run 1	0.022 ppm	0.099 ppm	0.006 ppm	-0.220 ppm
Concentration per Run 2	-0.037 ppm	0.114 ppm	-0.005 ppm	-0.100 ppm
Concentration per Run 3	0.013 ppm	0.118 ppm	-0.001 ppm	-0.361 ppm
Concentration RSD	4,981.6 %	9.1 %	2,735.7 %	57.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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QTEGRA

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0010 ppm	0.0000 ppm	0.0000 ppm	-0.0006 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	95.9 %	682.0 %	356.4 %	54.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0000 ppm	0.0007 ppm	0.0002 ppm	0.0003 ppm
Concentration per Run 1	0.000 ppm	-0.006 ppm	-0.002 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.004 ppm	0.002 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.005 ppm	0.000 ppm	0.000 ppm
Concentration RSD	314.7 %	838.0 %	1,150.3 %	76.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0011 ppm	-0.0002 ppm	-0.0010 ppm	0.0003 ppm
Concentration per Run 1	-0.004 ppm	0.000 ppm	-0.002 ppm	0.000 ppm
Concentration per Run 2	-0.002 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.003 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration RSD	341.5 %	63.8 %	110.8 %	173.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	-0.0009 ppm	102.7570 %	93.9485 %	101.4176 %
Concentration per Run 1	-0.001 ppm	102.672 %	93.877 %	101.444 %
Concentration per Run 2	-0.001 ppm	102.793 %	93.840 %	101.463 %
Concentration per Run 3	-0.001 ppm	102.806 %	94.129 %	101.346 %
Concentration RSD	3.7 %	0.1 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.1 %	0.2 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	104.6328 %	0.0299 ppm
Concentration per Run 1	104.617 %	0.047 ppm
Concentration per Run 2	104.529 %	0.014 ppm
Concentration per Run 3	104.752 %	0.029 ppm
Concentration RSD	0.1 %	55.4 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	4 cps	1 cps	0 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	0 cps	-12 cps	11 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-4 cps	3 cps	11 cps	1 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	28 cps	87 cps	29 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	-7 cps	-46 cps	-35 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	-2 cps	-3 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	17 cps	-2 cps	2 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-28 cps	51 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-2 cps	4,869 cps	7,605 cps	166,780 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,459 cps	4 cps

Comprehensive sample report

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QTEGRA

CALBLK

Sample Type BLK Analysis Date 10/15/2015 9:34:47 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	-0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm

	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	0.7 %	3.2 %
Concentration SD	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	-0.1 %	9.4 %
Concentration SD	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	-0.6 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	-0.5 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm

	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	0.2 %	-3.7 %
Concentration SD	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	-4.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	0.0 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm

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	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	2.0 %	-3.1 %
Concentration SD	0.1 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	-0.3 %	-0.5 %
Concentration SD	0.0 ppm	0.2 ppm

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	0.2 %	-0.1 %
Concentration SD	0.0 ppm	0.0 ppm

	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	-0.4 %	-0.2 %
Concentration SD	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	0.0 %	2.0 %
Concentration SD	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	0.7 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	2.9 %	-0.1 %
Concentration SD	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	0.0 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.0000 ppm	100.0000 %
Concentration per Run	0.000 ppm	100.000 %
Concentration RSD	-0.4 %	
Concentration SD	0.0 ppm	

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	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	100.0000 %	100.0000 %
Concentration per Run	100.000 %	100.000 %
Concentration RSD		
Concentration SD		

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.0000 %	0.0000 ppm
Concentration per Run	100.000 %	0.000 ppm
Concentration RSD		39,661,150,986,270,400.0 %
Concentration SD		0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	4 cps	1 cps	1 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	0 cps	-11 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-4 cps	2 cps	14 cps	-1 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	0 cps	29 cps	87 cps	29 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2 cps	-7 cps	-51 cps	-32 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-5 cps	-1 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	17 cps	1 cps	4 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	1 cps	-28 cps	47 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-2 cps	4,866 cps	7,602 cps	167,237 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,485 cps	5 cps

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STD1 15I21316

Sample Type STD Analysis Date 10/15/2015 9:37:57 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0107 ppm	0.0052 ppm	0.0019 ppm	0.0105 ppm
Concentration per Run 1	0.010 ppm	0.005 ppm	0.002 ppm	0.011 ppm
Concentration per Run 2	0.012 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration per Run 3	0.010 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration RSD	9.4 %	0.8 %	3.0 %	1.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0048 ppm	0.0116 ppm	0.0041 ppm	0.0083 ppm
Concentration per Run 1	0.004 ppm	0.011 ppm	0.004 ppm	0.012 ppm
Concentration per Run 2	0.006 ppm	0.012 ppm	0.004 ppm	0.005 ppm
Concentration per Run 3	0.005 ppm	0.012 ppm	0.004 ppm	0.008 ppm
Concentration RSD	20.2 %	3.0 %	4.1 %	38.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0098 ppm	0.0519 ppm	0.1956 ppm	0.1060 ppm
Concentration per Run 1	0.009 ppm	0.052 ppm	0.227 ppm	0.105 ppm
Concentration per Run 2	0.010 ppm	0.052 ppm	0.202 ppm	0.106 ppm
Concentration per Run 3	0.010 ppm	0.052 ppm	0.158 ppm	0.107 ppm
Concentration RSD	4.0 %	0.4 %	18.0 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	N/A	0.0157 ppm	1.0135 ppm	N/A
Concentration per Run 1	N/A	0.016 ppm	1.013 ppm	N/A
Concentration per Run 2	N/A	0.016 ppm	1.008 ppm	N/A
Concentration per Run 3	N/A	0.015 ppm	1.020 ppm	N/A
Concentration RSD	N/A	3.4 %	0.6 %	N/A
Concentration SD	N/A	0.0 ppm	0.0 ppm	N/A

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	1.0297 ppm	1.0405 ppm	1.0332 ppm	N/A
Concentration per Run 1	1.038 ppm	1.065 ppm	1.030 ppm	N/A
Concentration per Run 2	1.050 ppm	1.018 ppm	1.042 ppm	N/A
Concentration per Run 3	1.001 ppm	1.039 ppm	1.027 ppm	N/A
Concentration RSD	2.5 %	2.3 %	0.8 %	N/A
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	N/A

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0096 ppm	0.0022 ppm	0.0096 ppm	0.0098 ppm
Concentration per Run 1	0.009 ppm	0.002 ppm	0.010 ppm	0.011 ppm
Concentration per Run 2	0.010 ppm	0.002 ppm	0.010 ppm	0.009 ppm
Concentration per Run 3	0.010 ppm	0.002 ppm	0.010 ppm	0.009 ppm
Concentration RSD	3.9 %	1.9 %	1.0 %	10.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0103 ppm	0.0180 ppm	0.0499 ppm	0.0049 ppm
Concentration per Run 1	0.010 ppm	0.018 ppm	0.050 ppm	0.005 ppm
Concentration per Run 2	0.010 ppm	0.018 ppm	0.049 ppm	0.005 ppm
Concentration per Run 3	0.010 ppm	0.018 ppm	0.051 ppm	0.005 ppm
Concentration RSD	0.6 %	1.6 %	2.3 %	6.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0518 ppm	0.0103 ppm	0.0470 ppm	0.0490 ppm
Concentration per Run 1	0.052 ppm	0.010 ppm	0.046 ppm	0.049 ppm
Concentration per Run 2	0.048 ppm	0.010 ppm	0.047 ppm	0.049 ppm
Concentration per Run 3	0.056 ppm	0.010 ppm	0.048 ppm	0.048 ppm
Concentration RSD	7.9 %	1.9 %	1.6 %	1.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.8980 ppm	99.0721 %	100.9911 %	100.1401 %
Concentration per Run 1	0.897 ppm	99.178 %	100.961 %	100.348 %
Concentration per Run 2	0.902 ppm	98.846 %	101.030 %	100.043 %
Concentration per Run 3	0.895 ppm	99.193 %	100.982 %	100.029 %
Concentration RSD	0.4 %			
Concentration SD	0.0 ppm			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.5529 %	N/A
Concentration per Run 1	100.591 %	N/A
Concentration per Run 2	100.374 %	N/A
Concentration per Run 3	100.693 %	N/A
Concentration RSD		N/A
Concentration SD		N/A

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1 cps	44 cps	18 cps	97 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	2 cps	4 cps	27 cps	17 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	18 cps	299 cps	27 cps	54 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	4 cps	186 cps	602 cps	325 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	53 cps	610 cps	1,495 cps	69 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	7 cps	28 cps	56 cps	4 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	470 cps	9 cps	83 cps	13 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	15 cps	246 cps	166 cps	73 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	285 cps	4,821 cps	7,678 cps	167,471 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,582 cps	-4 cps

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QTEGRA

STD2 15G21064

Sample Type STD Analysis Date 10/15/2015 9:41:07 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.4854 ppm	0.5058 ppm	0.4850 ppm	0.4931 ppm
Concentration per Run 1	0.486 ppm	0.507 ppm	0.487 ppm	0.492 ppm
Concentration per Run 2	0.489 ppm	0.512 ppm	0.490 ppm	0.492 ppm
Concentration per Run 3	0.481 ppm	0.498 ppm	0.478 ppm	0.496 ppm
Concentration RSD	0.9 %	1.4 %	1.3 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.4897 ppm	0.4903 ppm	0.4836 ppm	0.4887 ppm
Concentration per Run 1	0.490 ppm	0.488 ppm	0.481 ppm	0.492 ppm
Concentration per Run 2	0.496 ppm	0.495 ppm	0.486 ppm	0.482 ppm
Concentration per Run 3	0.484 ppm	0.487 ppm	0.484 ppm	0.492 ppm
Concentration RSD	1.2 %	0.9 %	0.5 %	1.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.4867 ppm	0.4946 ppm	N/A	0.5039 ppm
Concentration per Run 1	0.486 ppm	0.497 ppm	N/A	0.513 ppm
Concentration per Run 2	0.492 ppm	0.500 ppm	N/A	0.499 ppm
Concentration per Run 3	0.482 ppm	0.487 ppm	N/A	0.499 ppm
Concentration RSD	1.1 %	1.3 %	N/A	1.5 %
Concentration SD	0.0 ppm	0.0 ppm	N/A	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	N/A	0.4947 ppm	N/A	N/A
Concentration per Run 1	N/A	0.497 ppm	N/A	N/A
Concentration per Run 2	N/A	0.498 ppm	N/A	N/A
Concentration per Run 3	N/A	0.489 ppm	N/A	N/A
Concentration RSD	N/A	1.1 %	N/A	N/A
Concentration SD	N/A	0.0 ppm	N/A	N/A

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	N/A	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A	N/A

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.4843 ppm	0.4927 ppm	0.4888 ppm	0.4866 ppm
Concentration per Run 1	0.485 ppm	0.495 ppm	0.489 ppm	0.486 ppm
Concentration per Run 2	0.488 ppm	0.492 ppm	0.494 ppm	0.494 ppm
Concentration per Run 3	0.480 ppm	0.492 ppm	0.483 ppm	0.480 ppm
Concentration RSD	0.9 %	0.3 %	1.1 %	1.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.4941 ppm	0.4889 ppm	0.4895 ppm	0.5077 ppm
Concentration per Run 1	0.492 ppm	0.488 ppm	0.489 ppm	0.508 ppm
Concentration per Run 2	0.495 ppm	0.488 ppm	0.492 ppm	0.516 ppm
Concentration per Run 3	0.496 ppm	0.490 ppm	0.487 ppm	0.499 ppm
Concentration RSD	0.4 %	0.3 %	0.5 %	1.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	N/A	0.4929 ppm	N/A	0.4884 ppm
Concentration per Run 1	N/A	0.495 ppm	N/A	0.487 ppm
Concentration per Run 2	N/A	0.494 ppm	N/A	0.496 ppm
Concentration per Run 3	N/A	0.490 ppm	N/A	0.482 ppm
Concentration RSD	N/A	0.6 %	N/A	1.4 %
Concentration SD	N/A	0.0 ppm	N/A	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	N/A	99.1818 %	102.7104 %	101.4068 %
Concentration per Run 1	N/A	98.835 %	102.620 %	101.829 %
Concentration per Run 2	N/A	98.251 %	102.742 %	101.457 %
Concentration per Run 3	N/A	100.460 %	102.769 %	100.934 %
Concentration RSD	N/A			
Concentration SD	N/A			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.3925 %	N/A
Concentration per Run 1	101.022 %	N/A
Concentration per Run 2	100.412 %	N/A
Concentration per Run 3	102.743 %	N/A
Concentration RSD		N/A
Concentration SD		N/A

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	205 cps	3,844 cps	4,340 cps	4,581 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	411 cps	148 cps	4,564 cps	309 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1,056 cps	2,851 cps	46 cps	261 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	17 cps	5,044 cps	348 cps	177 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	27 cps	261 cps	714 cps	29 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	268 cps	7,482 cps	2,888 cps	330 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	21,930 cps	218 cps	792 cps	1,021 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	140 cps	13,291 cps	1,421 cps	711 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	141 cps	4,826 cps	7,809 cps	169,590 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,729 cps	7 cps

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STD3 15H06986

Sample Type STD Analysis Date 10/15/2015 9:44:05 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.9919 ppm	1.0183 ppm	1.0075 ppm	1.0022 ppm
Concentration per Run 1	0.995 ppm	1.018 ppm	1.007 ppm	1.005 ppm
Concentration per Run 2	0.992 ppm	1.018 ppm	1.008 ppm	1.002 ppm
Concentration per Run 3	0.989 ppm	1.018 ppm	1.007 ppm	1.000 ppm
Concentration RSD	0.3 %	0.0 %	0.0 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	1.0052 ppm	1.0048 ppm	1.0082 ppm	0.9974 ppm
Concentration per Run 1	1.004 ppm	1.007 ppm	1.003 ppm	1.001 ppm
Concentration per Run 2	1.008 ppm	1.006 ppm	1.008 ppm	0.998 ppm
Concentration per Run 3	1.004 ppm	1.002 ppm	1.014 ppm	0.993 ppm
Concentration RSD	0.2 %	0.3 %	0.6 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.9984 ppm	1.0036 ppm	N/A	1.0164 ppm
Concentration per Run 1	1.000 ppm	1.006 ppm	N/A	1.010 ppm
Concentration per Run 2	0.999 ppm	1.003 ppm	N/A	1.019 ppm
Concentration per Run 3	0.997 ppm	1.001 ppm	N/A	1.020 ppm
Concentration RSD	0.1 %	0.2 %	N/A	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	N/A	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	N/A	1.0026 ppm	1.0117 ppm	N/A
Concentration per Run 1	N/A	1.000 ppm	1.011 ppm	N/A
Concentration per Run 2	N/A	1.006 ppm	1.012 ppm	N/A
Concentration per Run 3	N/A	1.002 ppm	1.011 ppm	N/A
Concentration RSD	N/A	0.3 %	0.1 %	N/A
Concentration SD	N/A	0.0 ppm	0.0 ppm	N/A

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	N/A	N/A	1.0272 ppm	N/A
Concentration per Run 1	N/A	N/A	1.018 ppm	N/A
Concentration per Run 2	N/A	N/A	1.029 ppm	N/A
Concentration per Run 3	N/A	N/A	1.035 ppm	N/A
Concentration RSD	N/A	N/A	0.8 %	N/A
Concentration SD	N/A	N/A	0.0 ppm	N/A

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.0078 ppm	1.0083 ppm	0.9934 ppm	1.0067 ppm
Concentration per Run 1	1.008 ppm	1.002 ppm	0.995 ppm	1.006 ppm
Concentration per Run 2	1.010 ppm	1.013 ppm	0.993 ppm	1.004 ppm
Concentration per Run 3	1.006 ppm	1.010 ppm	0.992 ppm	1.010 ppm
Concentration RSD	0.2 %	0.5 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.0075 ppm	1.0050 ppm	0.9983 ppm	1.0135 ppm
Concentration per Run 1	1.008 ppm	1.005 ppm	0.997 ppm	1.017 ppm
Concentration per Run 2	1.007 ppm	1.011 ppm	0.997 ppm	1.012 ppm
Concentration per Run 3	1.008 ppm	0.998 ppm	1.001 ppm	1.012 ppm
Concentration RSD	0.0 %	0.7 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.0094 ppm	1.0039 ppm	0.9698 ppm	0.9963 ppm
Concentration per Run 1	0.997 ppm	0.999 ppm	0.970 ppm	0.997 ppm
Concentration per Run 2	1.014 ppm	1.008 ppm	0.966 ppm	0.998 ppm
Concentration per Run 3	1.017 ppm	1.004 ppm	0.973 ppm	0.994 ppm
Concentration RSD	1.1 %	0.4 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.9441 ppm	98.6955 %	102.6370 %	101.2295 %
Concentration per Run 1	0.946 ppm	98.660 %	102.846 %	101.206 %
Concentration per Run 2	0.944 ppm	98.716 %	102.316 %	101.432 %
Concentration per Run 3	0.942 ppm	98.710 %	102.749 %	101.050 %
Concentration RSD	0.2 %			
Concentration SD	0.0 ppm			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.6231 %	N/A
Concentration per Run 1	101.584 %	N/A
Concentration per Run 2	101.661 %	N/A
Concentration per Run 3	101.624 %	N/A
Concentration RSD		N/A
Concentration SD		N/A

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	425 cps	7,754 cps	9,036 cps	9,295 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	842 cps	304 cps	9,511 cps	619 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	2,159 cps	5,796 cps	80 cps	528 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	31 cps	10,185 cps	611 cps	326 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	52 cps	606 cps	1,511 cps	79 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	557 cps	15,307 cps	5,843 cps	682 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	44,621 cps	447 cps	1,611 cps	2,039 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	291 cps	27,079 cps	2,512 cps	1,451 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	302 cps	4,802 cps	7,803 cps	169,293 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,769 cps	13 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0077 ppm	2.0212 ppm	N/A	2.0007 ppm
Concentration per Run 1	2.003 ppm	2.022 ppm	N/A	2.010 ppm
Concentration per Run 2	2.015 ppm	2.022 ppm	N/A	1.991 ppm
Concentration per Run 3	2.006 ppm	2.020 ppm	N/A	2.002 ppm
Concentration RSD	0.3 %	0.1 %	N/A	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	N/A	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	N/A	N/A	N/A	2.0041 ppm
Concentration per Run 1	N/A	N/A	N/A	2.001 ppm
Concentration per Run 2	N/A	N/A	N/A	2.003 ppm
Concentration per Run 3	N/A	N/A	N/A	2.009 ppm
Concentration RSD	N/A	N/A	N/A	0.2 %
Concentration SD	N/A	N/A	N/A	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0041 ppm	1.9995 ppm	2.0592 ppm	1.9908 ppm
Concentration per Run 1	2.001 ppm	2.002 ppm	2.112 ppm	1.992 ppm
Concentration per Run 2	2.006 ppm	1.998 ppm	2.037 ppm	1.991 ppm
Concentration per Run 3	2.005 ppm	1.999 ppm	2.028 ppm	1.989 ppm
Concentration RSD	0.1 %	0.1 %	2.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	N/A	N/A	2.0035 ppm	N/A
Concentration per Run 1	N/A	N/A	1.999 ppm	N/A
Concentration per Run 2	N/A	N/A	1.998 ppm	N/A
Concentration per Run 3	N/A	N/A	2.013 ppm	N/A
Concentration RSD	N/A	N/A	0.4 %	N/A
Concentration SD	N/A	N/A	0.0 ppm	N/A

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	N/A	N/A	2.0432 ppm	N/A
Concentration per Run 1	N/A	N/A	2.034 ppm	N/A
Concentration per Run 2	N/A	N/A	2.040 ppm	N/A
Concentration per Run 3	N/A	N/A	2.056 ppm	N/A
Concentration RSD	N/A	N/A	0.6 %	N/A
Concentration SD	N/A	N/A	0.0 ppm	N/A

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	N/A	1.9977 ppm	2.0061 ppm	N/A
Concentration per Run 1	N/A	1.998 ppm	2.004 ppm	N/A
Concentration per Run 2	N/A	2.001 ppm	2.009 ppm	N/A
Concentration per Run 3	N/A	1.995 ppm	2.006 ppm	N/A
Concentration RSD	N/A	0.1 %	0.1 %	N/A
Concentration SD	N/A	0.0 ppm	0.0 ppm	N/A

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.9977 ppm	2.0003 ppm	2.0035 ppm	1.9913 ppm
Concentration per Run 1	2.001 ppm	2.008 ppm	2.003 ppm	1.993 ppm
Concentration per Run 2	1.992 ppm	1.984 ppm	1.996 ppm	1.995 ppm
Concentration per Run 3	2.001 ppm	2.008 ppm	2.012 ppm	1.986 ppm
Concentration RSD	0.3 %	0.7 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.9953 ppm	1.9998 ppm	2.4501 ppm	2.0048 ppm
Concentration per Run 1	2.006 ppm	2.002 ppm	2.417 ppm	2.005 ppm
Concentration per Run 2	1.986 ppm	1.996 ppm	2.446 ppm	2.004 ppm
Concentration per Run 3	1.994 ppm	2.001 ppm	2.488 ppm	2.005 ppm
Concentration RSD	0.5 %	0.2 %	1.4 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	1.9113 ppm	97.4716 %	103.8535 %	100.4670 %
Concentration per Run 1	1.916 ppm	97.829 %	104.520 %	100.365 %
Concentration per Run 2	1.909 ppm	97.257 %	103.672 %	100.727 %
Concentration per Run 3	1.909 ppm	97.328 %	103.368 %	100.309 %
Concentration RSD	0.2 %			
Concentration SD	0.0 ppm			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.3689 %	N/A
Concentration per Run 1	101.632 %	N/A
Concentration per Run 2	101.249 %	N/A
Concentration per Run 3	101.226 %	N/A
Concentration RSD		N/A
Concentration SD		N/A

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	861 cps	15,348 cps	18,137 cps	18,415 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1,692 cps	621 cps	19,249 cps	1,246 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	4,283 cps	11,517 cps	150 cps	1,046 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	62 cps	20,457 cps	1,135 cps	627 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	103 cps	1,228 cps	3,093 cps	207 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,128 cps	30,691 cps	11,654 cps	1,376 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	87,791 cps	899 cps	3,268 cps	3,992 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	581 cps	54,611 cps	6,227 cps	2,909 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	612 cps	4,743 cps	7,895 cps	168,018 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,725 cps	18 cps

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Sample Type STD Analysis Date 10/15/2015 9:49:47 PM

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	N/A	9.9936 ppm	N/A	N/A
Concentration per Run 1	N/A	9.985 ppm	N/A	N/A
Concentration per Run 2	N/A	9.991 ppm	N/A	N/A
Concentration per Run 3	N/A	10.004 ppm	N/A	N/A
Concentration RSD	N/A	0.1 %	N/A	N/A
Concentration SD	N/A	0.0 ppm	N/A	N/A

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	N/A	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A	N/A

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	N/A	N/A	10.0675 ppm	10.0000 ppm
Concentration per Run 1	N/A	N/A	10.097 ppm	10.013 ppm
Concentration per Run 2	N/A	N/A	10.053 ppm	9.995 ppm
Concentration per Run 3	N/A	N/A	10.052 ppm	9.992 ppm
Concentration RSD	N/A	N/A	0.3 %	0.1 %
Concentration SD	N/A	N/A	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.6161 ppm	N/A	9.9968 ppm	10.8030 ppm
Concentration per Run 1	10.672 ppm	N/A	10.027 ppm	10.801 ppm
Concentration per Run 2	10.609 ppm	N/A	10.008 ppm	10.815 ppm
Concentration per Run 3	10.567 ppm	N/A	9.955 ppm	10.793 ppm
Concentration RSD	0.5 %	N/A	0.4 %	0.1 %
Concentration SD	0.1 ppm	N/A	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.3786 ppm	10.0398 ppm	9.9853 ppm	10.3112 ppm
Concentration per Run 1	10.461 ppm	10.089 ppm	10.036 ppm	10.421 ppm
Concentration per Run 2	10.261 ppm	10.050 ppm	10.002 ppm	10.199 ppm
Concentration per Run 3	10.414 ppm	9.980 ppm	9.918 ppm	10.313 ppm
Concentration RSD	1.0 %	0.6 %	0.6 %	1.1 %
Concentration SD	0.1 ppm	0.1 ppm	0.1 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	N/A	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A	N/A

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	N/A	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A	N/A

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	N/A	N/A	9.9130 ppm	N/A
Concentration per Run 1	N/A	N/A	9.914 ppm	N/A
Concentration per Run 2	N/A	N/A	9.924 ppm	N/A
Concentration per Run 3	N/A	N/A	9.901 ppm	N/A
Concentration RSD	N/A	N/A	0.1 %	N/A
Concentration SD	N/A	N/A	0.0 ppm	N/A

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	9.8810 ppm	95.2812 %	104.1329 %	99.5473 %
Concentration per Run 1	9.887 ppm	95.521 %	104.365 %	99.989 %
Concentration per Run 2	9.867 ppm	95.301 %	103.718 %	99.416 %
Concentration per Run 3	9.889 ppm	95.021 %	104.315 %	99.237 %
Concentration RSD	0.1 %			
Concentration SD	0.0 ppm			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.1267 %	N/A
Concentration per Run 1	100.477 %	N/A
Concentration per Run 2	100.206 %	N/A
Concentration per Run 3	99.697 %	N/A
Concentration RSD		N/A
Concentration SD		N/A

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	74,937 cps	-18 cps	-1 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	0 cps	0 cps	-18 cps	11 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	11 cps	679 cps	5,271 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	281 cps	46 cps	5,317 cps	3,028 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	528 cps	6,127 cps	15,364 cps	1,045 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	3 cps	4 cps	-1 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	63 cps	-1 cps	4 cps	6 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-6 cps	24,818 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	3,135 cps	4,636 cps	7,917 cps	166,480 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,508 cps	2 cps

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STD6 15I21386

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	N/A	249.1154 ppm	N/A
Concentration per Run 1	N/A	249.818 ppm	N/A
Concentration per Run 2	N/A	249.828 ppm	N/A
Concentration per Run 3	N/A	247.700 ppm	N/A
Concentration RSD	N/A	0.5 %	N/A
Concentration SD	N/A	1.2 ppm	N/A

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	101.2306 ppm	N/A	N/A
Concentration per Run 1	101.271 ppm	N/A	N/A
Concentration per Run 2	101.270 ppm	N/A	N/A
Concentration per Run 3	101.151 ppm	N/A	N/A
Concentration RSD	0.1 %	N/A	N/A
Concentration SD	0.1 ppm	N/A	N/A

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	254.4052 ppm	251.5818 ppm	49.7906 ppm
Concentration per Run 1	255.359 ppm	252.710 ppm	50.015 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	254.779 ppm	252.037 ppm	49.863 ppm
Concentration per Run 3	253.079 ppm	249.998 ppm	49.493 ppm
Concentration RSD	0.5 %	0.6 %	0.5 %
Concentration SD	1.2 ppm	1.4 ppm	0.3 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	N/A	246.9797 ppm	N/A
Concentration per Run 1	N/A	247.855 ppm	N/A
Concentration per Run 2	N/A	247.791 ppm	N/A
Concentration per Run 3	N/A	245.293 ppm	N/A
Concentration RSD	N/A	0.6 %	N/A
Concentration SD	N/A	1.5 ppm	N/A

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	N/A	N/A	49.1896 ppm
Concentration per Run 1	N/A	N/A	49.316 ppm
Concentration per Run 2	N/A	N/A	49.336 ppm
Concentration per Run 3	N/A	N/A	48.916 ppm
Concentration RSD	N/A	N/A	0.5 %
Concentration SD	N/A	N/A	0.2 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	74.5126 %	97.0047 %	86.1752 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	74.836 %	96.892 %	85.934 %
Concentration per Run 2	74.394 %	97.230 %	86.222 %
Concentration per Run 3	74.307 %	96.892 %	86.370 %
Concentration RSD			
Concentration SD			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	87.9351 %	10.0000 ppm
Concentration per Run 1	88.009 %	9.995 ppm
Concentration per Run 2	87.862 %	9.954 ppm
Concentration per Run 3	87.934 %	10.051 ppm
Concentration RSD		0.5 %
Concentration SD		0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-7 cps	18 cps	6 cps	7 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-11 cps	0 cps	-9 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	11 cps	59 cps	15,336 cps	46,745 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2,503 cps	108 cps	114,098 cps	65,790 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	11,879 cps	28,333 cps	323,007 cps	24,048 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	3 cps	-4 cps	-10 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	367 cps	0 cps	45 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	4 cps	219 cps	48 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	13,711 cps	3,626 cps	7,375 cps	144,117 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	15,376 cps	1,784 cps

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QTEGRA

STD7 15I21306

Sample Type STD Analysis Date 10/15/2015 9:56:06 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	N/A	500.4407 ppm	N/A
Concentration per Run 1	N/A	499.236 ppm	N/A
Concentration per Run 2	N/A	499.299 ppm	N/A
Concentration per Run 3	N/A	502.787 ppm	N/A
Concentration RSD	N/A	0.4 %	N/A
Concentration SD	N/A	2.0 ppm	N/A

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	199.3539 ppm	N/A	N/A
Concentration per Run 1	198.807 ppm	N/A	N/A
Concentration per Run 2	199.755 ppm	N/A	N/A
Concentration per Run 3	199.499 ppm	N/A	N/A
Concentration RSD	0.2 %	N/A	N/A
Concentration SD	0.5 ppm	N/A	N/A

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	497.7813 ppm	499.2015 ppm	100.1003 ppm
Concentration per Run 1	496.101 ppm	497.753 ppm	99.607 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	496.686 ppm	497.681 ppm	99.875 ppm
Concentration per Run 3	500.557 ppm	502.171 ppm	100.819 ppm
Concentration RSD	0.5 %	0.5 %	0.6 %
Concentration SD	2.4 ppm	2.6 ppm	0.6 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	N/A	501.5039 ppm	N/A
Concentration per Run 1	N/A	499.014 ppm	N/A
Concentration per Run 2	N/A	500.620 ppm	N/A
Concentration per Run 3	N/A	504.878 ppm	N/A
Concentration RSD	N/A	0.6 %	N/A
Concentration SD	N/A	3.0 ppm	N/A

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	N/A	N/A	100.4205 ppm
Concentration per Run 1	N/A	N/A	101.357 ppm
Concentration per Run 2	N/A	N/A	101.229 ppm
Concentration per Run 3	N/A	N/A	98.675 ppm
Concentration RSD	N/A	N/A	1.5 %
Concentration SD	N/A	N/A	1.5 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	67.8563 %	95.5901 %	81.8822 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	67.752 %	96.700 %	82.038 %
Concentration per Run 2	67.802 %	95.828 %	81.652 %
Concentration per Run 3	68.014 %	94.242 %	81.956 %
Concentration RSD			
Concentration SD			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	83.6979 %	N/A
Concentration per Run 1	83.755 %	N/A
Concentration per Run 2	83.507 %	N/A
Concentration per Run 3	83.832 %	N/A
Concentration RSD		N/A
Concentration SD		N/A

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-7 cps	25 cps	5 cps	13 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-18 cps	4 cps	-23 cps	17 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	14 cps	50 cps	30,344 cps	89,628 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	4,857 cps	189 cps	217,042 cps	126,819 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	23,223 cps	56,133 cps	574,054 cps	48,147 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	5 cps	-4 cps	-7 cps	-5 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	664 cps	1 cps	60 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	431 cps	29 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	26,644 cps	3,302 cps	7,267 cps	136,937 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	14,635 cps	36 cps

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CCV 15I21330

Sample Type QC Analysis Date 10/15/2015 9:59:27 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0344 ppm	0.5032 ppm	0.5079 ppm	1.0180 ppm
Concentration per Run 1	2.038 ppm	0.504 ppm	0.508 ppm	1.014 ppm
Concentration per Run 2	2.036 ppm	0.503 ppm	0.507 ppm	1.020 ppm
Concentration per Run 3	2.029 ppm	0.503 ppm	0.508 ppm	1.020 ppm
Concentration RSD	0.2 %	0.1 %	0.1 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5048 ppm	2.0661 ppm	0.9851 ppm	2.0060 ppm
Concentration per Run 1	0.505 ppm	2.063 ppm	0.984 ppm	2.010 ppm
Concentration per Run 2	0.503 ppm	2.068 ppm	0.985 ppm	2.014 ppm
Concentration per Run 3	0.506 ppm	2.068 ppm	0.986 ppm	1.994 ppm
Concentration RSD	0.3 %	0.1 %	0.1 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0636 ppm	3.0569 ppm	10.1253 ppm	10.3352 ppm
Concentration per Run 1	2.064 ppm	3.057 ppm	10.123 ppm	10.350 ppm
Concentration per Run 2	2.062 ppm	3.054 ppm	10.162 ppm	10.339 ppm
Concentration per Run 3	2.064 ppm	3.060 ppm	10.091 ppm	10.316 ppm
Concentration RSD	0.1 %	0.1 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.9434 ppm	1.4783 ppm	49.6854 ppm	53.5519 ppm
Concentration per Run 1	10.869 ppm	1.479 ppm	49.687 ppm	53.537 ppm
Concentration per Run 2	10.916 ppm	1.477 ppm	49.666 ppm	53.523 ppm
Concentration per Run 3	11.046 ppm	1.480 ppm	49.703 ppm	53.596 ppm
Concentration RSD	0.8 %	0.1 %	0.0 %	0.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.3762 ppm	50.3881 ppm	49.5869 ppm	51.2382 ppm
Concentration per Run 1	10.291 ppm	50.515 ppm	49.637 ppm	51.367 ppm
Concentration per Run 2	10.470 ppm	50.271 ppm	49.429 ppm	51.416 ppm
Concentration per Run 3	10.368 ppm	50.378 ppm	49.694 ppm	50.932 ppm
Concentration RSD	0.9 %	0.2 %	0.3 %	0.5 %
Concentration SD	0.1 ppm	0.1 ppm	0.1 ppm	0.3 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0151 ppm	0.2059 ppm	1.0217 ppm	1.9712 ppm
Concentration per Run 1	2.020 ppm	0.206 ppm	1.023 ppm	1.971 ppm
Concentration per Run 2	2.013 ppm	0.206 ppm	1.022 ppm	1.976 ppm
Concentration per Run 3	2.013 ppm	0.206 ppm	1.021 ppm	1.967 ppm
Concentration RSD	0.2 %	0.1 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9966 ppm	1.0345 ppm	1.0396 ppm	0.5171 ppm
Concentration per Run 1	0.995 ppm	1.032 ppm	1.035 ppm	0.518 ppm
Concentration per Run 2	0.997 ppm	1.047 ppm	1.043 ppm	0.515 ppm
Concentration per Run 3	0.998 ppm	1.025 ppm	1.041 ppm	0.518 ppm
Concentration RSD	0.1 %	1.1 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	2.0726 ppm	0.9966 ppm	1.9747 ppm	1.9526 ppm
Concentration per Run 1	2.070 ppm	0.998 ppm	1.969 ppm	1.954 ppm
Concentration per Run 2	2.087 ppm	0.993 ppm	1.980 ppm	1.949 ppm
Concentration per Run 3	2.061 ppm	0.999 ppm	1.975 ppm	1.954 ppm
Concentration RSD	0.6 %	0.4 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7579 ppm	87.2998 %	96.6901 %	93.2184 %
Concentration per Run 1	4.767 ppm	87.196 %	96.234 %	93.227 %
Concentration per Run 2	4.756 ppm	87.281 %	97.012 %	93.448 %
Concentration per Run 3	4.751 ppm	87.423 %	96.825 %	92.980 %
Concentration RSD	0.2 %	0.1 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	0.4 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	94.9141 %	0.0061 ppm
Concentration per Run 1	94.791 %	-0.024 ppm
Concentration per Run 2	94.937 %	0.070 ppm
Concentration per Run 3	95.015 %	-0.027 ppm
Concentration RSD	0.1 %	894.3 %
Concentration SD	0.1 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	817 cps	3,581 cps	4,255 cps	8,694 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	373 cps	584 cps	8,557 cps	1,161 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,950 cps	16,485 cps	634 cps	5,059 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	269 cps	14,134 cps	24,204 cps	13,826 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	490 cps	28,579 cps	71,041 cps	4,948 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,039 cps	2,941 cps	5,315 cps	1,183 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,644 cps	433 cps	1,580 cps	973 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	561 cps	25,324 cps	4,665 cps	2,653 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,430 cps	4,248 cps	7,351 cps	155,896 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,596 cps	6 cps

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CCVLL 15I21316

Sample Type QC Analysis Date 10/15/2015 10:02:14 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0123 ppm	0.0053 ppm	0.0021 ppm	0.0101 ppm
Concentration per Run 1	0.013 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration per Run 2	0.011 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration per Run 3	0.013 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration RSD	6.6 %	1.5 %	4.3 %	2.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0043 ppm	0.0114 ppm	0.0048 ppm	0.0126 ppm
Concentration per Run 1	0.004 ppm	0.010 ppm	0.004 ppm	0.012 ppm
Concentration per Run 2	0.005 ppm	0.014 ppm	0.005 ppm	0.014 ppm
Concentration per Run 3	0.004 ppm	0.010 ppm	0.005 ppm	0.011 ppm
Concentration RSD	13.7 %	19.9 %	10.9 %	13.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0103 ppm	0.0520 ppm	0.2155 ppm	0.1218 ppm
Concentration per Run 1	0.011 ppm	0.053 ppm	0.192 ppm	0.122 ppm
Concentration per Run 2	0.010 ppm	0.052 ppm	0.243 ppm	0.122 ppm
Concentration per Run 3	0.010 ppm	0.051 ppm	0.211 ppm	0.122 ppm
Concentration RSD	4.2 %	1.1 %	11.9 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.1779 ppm	0.0168 ppm	1.0494 ppm	1.1110 ppm
Concentration per Run 1	0.123 ppm	0.016 ppm	1.056 ppm	1.104 ppm
Concentration per Run 2	0.226 ppm	0.017 ppm	1.048 ppm	1.113 ppm
Concentration per Run 3	0.184 ppm	0.017 ppm	1.045 ppm	1.116 ppm
Concentration RSD	29.1 %	4.8 %	0.5 %	0.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	1.0790 ppm	1.1611 ppm	1.1222 ppm	1.0288 ppm
Concentration per Run 1	1.066 ppm	1.156 ppm	1.119 ppm	0.975 ppm
Concentration per Run 2	1.100 ppm	1.142 ppm	1.129 ppm	1.176 ppm
Concentration per Run 3	1.071 ppm	1.185 ppm	1.119 ppm	0.936 ppm
Concentration RSD	1.7 %	1.9 %	0.5 %	12.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0171 ppm	0.0022 ppm	0.0096 ppm	0.0092 ppm
Concentration per Run 1	0.014 ppm	0.002 ppm	0.010 ppm	0.009 ppm
Concentration per Run 2	0.019 ppm	0.002 ppm	0.010 ppm	0.010 ppm
Concentration per Run 3	0.019 ppm	0.002 ppm	0.010 ppm	0.008 ppm
Concentration RSD	18.0 %	4.7 %	0.5 %	15.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0105 ppm	0.0173 ppm	0.0498 ppm	0.0052 ppm
Concentration per Run 1	0.011 ppm	0.018 ppm	0.051 ppm	0.005 ppm
Concentration per Run 2	0.010 ppm	0.021 ppm	0.050 ppm	0.005 ppm
Concentration per Run 3	0.010 ppm	0.013 ppm	0.048 ppm	0.005 ppm
Concentration RSD	1.1 %	22.7 %	2.6 %	1.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0614 ppm	0.0103 ppm	0.0511 ppm	0.0496 ppm
Concentration per Run 1	0.060 ppm	0.010 ppm	0.052 ppm	0.049 ppm
Concentration per Run 2	0.065 ppm	0.010 ppm	0.051 ppm	0.050 ppm
Concentration per Run 3	0.059 ppm	0.010 ppm	0.051 ppm	0.049 ppm
Concentration RSD	5.1 %	0.7 %	1.2 %	0.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.9120 ppm	98.8200 %	97.4016 %	99.3859 %
Concentration per Run 1	0.914 ppm	98.365 %	98.431 %	99.285 %
Concentration per Run 2	0.914 ppm	98.975 %	96.168 %	99.373 %
Concentration per Run 3	0.908 ppm	99.120 %	97.605 %	99.499 %
Concentration RSD	0.4 %	0.4 %	1.2 %	0.1 %
Concentration SD	0.0 ppm	0.4 %	1.1 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.2333 %	0.0071 ppm
Concentration per Run 1	99.948 %	-0.031 ppm
Concentration per Run 2	100.255 %	-0.025 ppm
Concentration per Run 3	100.497 %	0.077 ppm
Concentration RSD	0.3 %	849.5 %
Concentration SD	0.3 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1 cps	44 cps	20 cps	93 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	2 cps	3 cps	34 cps	19 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	19 cps	298 cps	27 cps	59 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	4 cps	190 cps	598 cps	316 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	53 cps	657 cps	1,571 cps	69 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	11 cps	28 cps	56 cps	3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	473 cps	8 cps	80 cps	14 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	17 cps	237 cps	175 cps	74 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	288 cps	4,808 cps	7,405 cps	166,210 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,526 cps	6 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	371.6 %	92.3 %	3,425.5 %	106.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0011 ppm	0.0013 ppm	-0.0007 ppm	0.0019 ppm
Concentration per Run 1	0.001 ppm	0.002 ppm	-0.001 ppm	0.006 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	-0.001 ppm	-0.007 ppm
Concentration per Run 3	0.001 ppm	0.002 ppm	0.000 ppm	0.007 ppm
Concentration RSD	9.6 %	64.2 %	52.8 %	398.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0002 ppm	0.0000 ppm	0.0034 ppm	0.0046 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.067 ppm	0.006 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.039 ppm	0.004 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.038 ppm	0.004 ppm
Concentration RSD	210.1 %	909.9 %	1,797.1 %	22.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0355 ppm	0.0012 ppm	0.0050 ppm	-0.0101 ppm
Concentration per Run 1	0.089 ppm	0.000 ppm	0.008 ppm	-0.026 ppm
Concentration per Run 2	-0.056 ppm	0.003 ppm	0.002 ppm	-0.004 ppm
Concentration per Run 3	0.073 ppm	0.001 ppm	0.005 ppm	0.000 ppm
Concentration RSD	224.2 %	123.4 %	65.2 %	136.6 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0024 ppm	0.0945 ppm	0.0251 ppm	-0.0525 ppm
Concentration per Run 1	-0.051 ppm	0.061 ppm	0.026 ppm	0.049 ppm
Concentration per Run 2	0.004 ppm	0.074 ppm	0.022 ppm	-0.207 ppm
Concentration per Run 3	0.040 ppm	0.149 ppm	0.027 ppm	0.000 ppm
Concentration RSD	1,881.3 %	50.1 %	9.9 %	259.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0021 ppm	0.0000 ppm	-0.0002 ppm	0.0001 ppm
Concentration per Run 1	0.004 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration RSD	64.0 %	498.0 %	94.8 %	2,535.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0001 ppm	-0.0031 ppm	-0.0014 ppm	0.0002 ppm
Concentration per Run 1	0.000 ppm	-0.005 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.003 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	-0.001 ppm	-0.003 ppm	0.000 ppm
Concentration RSD	184.8 %	66.4 %	73.7 %	39.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0054 ppm	0.0001 ppm	0.0008 ppm	-0.0005 ppm
Concentration per Run 1	-0.006 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.016 ppm	0.000 ppm	0.001 ppm	0.000 ppm
Concentration per Run 3	0.006 ppm	0.000 ppm	0.001 ppm	-0.001 ppm
Concentration RSD	197.7 %	112.5 %	84.9 %	102.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0039 ppm	99.5529 %	97.7995 %	99.5656 %
Concentration per Run 1	0.003 ppm	99.656 %	97.307 %	99.764 %
Concentration per Run 2	0.003 ppm	99.544 %	97.829 %	99.256 %
Concentration per Run 3	0.005 ppm	99.458 %	98.262 %	99.677 %
Concentration RSD	28.3 %	0.1 %	0.5 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	0.5 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	99.5720 %	-0.0258 ppm
Concentration per Run 1	99.550 %	0.013 ppm
Concentration per Run 2	99.650 %	-0.088 ppm
Concentration per Run 3	99.516 %	-0.003 ppm
Concentration RSD	0.1 %	210.6 %
Concentration SD	0.1 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	4 cps	1 cps	2 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	0 cps	-17 cps	13 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	2 cps	14 cps	2 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	39 cps	87 cps	25 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2 cps	48 cps	-14 cps	-37 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	-4 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	20 cps	-1 cps	1 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-24 cps	49 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-1 cps	4,844 cps	7,435 cps	166,511 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,411 cps	1 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0349 ppm	0.5049 ppm	0.5090 ppm	1.0226 ppm
Concentration per Run 1	2.033 ppm	0.506 ppm	0.509 ppm	1.024 ppm
Concentration per Run 2	2.032 ppm	0.504 ppm	0.510 ppm	1.025 ppm
Concentration per Run 3	2.040 ppm	0.504 ppm	0.508 ppm	1.019 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5057 ppm	2.0701 ppm	0.9828 ppm	1.9965 ppm
Concentration per Run 1	0.505 ppm	2.065 ppm	0.983 ppm	1.999 ppm
Concentration per Run 2	0.507 ppm	2.070 ppm	0.985 ppm	1.995 ppm
Concentration per Run 3	0.506 ppm	2.075 ppm	0.980 ppm	1.996 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0670 ppm	3.0644 ppm	10.1952 ppm	10.2824 ppm
Concentration per Run 1	2.066 ppm	3.060 ppm	10.200 ppm	10.288 ppm
Concentration per Run 2	2.069 ppm	3.069 ppm	10.086 ppm	10.307 ppm
Concentration per Run 3	2.066 ppm	3.065 ppm	10.300 ppm	10.252 ppm
Concentration RSD	0.1 %	0.1 %	1.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.8873 ppm	1.4760 ppm	49.2502 ppm	53.4113 ppm
Concentration per Run 1	10.915 ppm	1.478 ppm	49.378 ppm	53.698 ppm
Concentration per Run 2	10.938 ppm	1.475 ppm	49.159 ppm	53.175 ppm
Concentration per Run 3	10.809 ppm	1.476 ppm	49.214 ppm	53.361 ppm
Concentration RSD	0.6 %	0.1 %	0.2 %	0.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.1 ppm	0.3 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.2561 ppm	49.8953 ppm	49.6243 ppm	51.2226 ppm
Concentration per Run 1	10.302 ppm	49.912 ppm	49.648 ppm	51.259 ppm
Concentration per Run 2	10.186 ppm	49.865 ppm	49.521 ppm	51.397 ppm
Concentration per Run 3	10.280 ppm	49.909 ppm	49.703 ppm	51.012 ppm
Concentration RSD	0.6 %	0.1 %	0.2 %	0.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.1 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0159 ppm	0.2057 ppm	1.0234 ppm	1.9542 ppm
Concentration per Run 1	2.022 ppm	0.206 ppm	1.023 ppm	1.950 ppm
Concentration per Run 2	2.015 ppm	0.205 ppm	1.024 ppm	1.959 ppm
Concentration per Run 3	2.011 ppm	0.206 ppm	1.023 ppm	1.953 ppm
Concentration RSD	0.3 %	0.2 %	0.0 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9972 ppm	1.0289 ppm	1.0208 ppm	0.5326 ppm
Concentration per Run 1	1.000 ppm	1.029 ppm	1.023 ppm	0.532 ppm
Concentration per Run 2	0.999 ppm	1.026 ppm	1.021 ppm	0.532 ppm
Concentration per Run 3	0.993 ppm	1.032 ppm	1.018 ppm	0.534 ppm
Concentration RSD	0.4 %	0.3 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	2.0605 ppm	0.9874 ppm	1.9795 ppm	1.9416 ppm
Concentration per Run 1	2.058 ppm	0.986 ppm	1.988 ppm	1.937 ppm
Concentration per Run 2	2.062 ppm	0.988 ppm	1.976 ppm	1.946 ppm
Concentration per Run 3	2.061 ppm	0.988 ppm	1.975 ppm	1.942 ppm
Concentration RSD	0.1 %	0.1 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7314 ppm	87.4792 %	96.4898 %	93.6654 %
Concentration per Run 1	4.735 ppm	87.543 %	96.180 %	93.337 %
Concentration per Run 2	4.733 ppm	87.465 %	96.977 %	93.774 %
Concentration per Run 3	4.726 ppm	87.430 %	96.313 %	93.885 %
Concentration RSD	0.1 %	0.1 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	0.4 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	95.0870 %	0.0102 ppm
Concentration per Run 1	95.050 %	-0.014 ppm
Concentration per Run 2	95.149 %	0.045 ppm
Concentration per Run 3	95.062 %	-0.001 ppm
Concentration RSD	0.1 %	303.0 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	819 cps	3,599 cps	4,272 cps	8,776 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	375 cps	587 cps	8,578 cps	1,153 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,965 cps	16,556 cps	637 cps	5,023 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	268 cps	14,083 cps	23,943 cps	13,761 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	483 cps	28,241 cps	70,947 cps	4,936 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,041 cps	2,932 cps	5,335 cps	1,176 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,863 cps	430 cps	1,549 cps	1,004 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	557 cps	25,038 cps	4,699 cps	2,643 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,425 cps	4,257 cps	7,336 cps	156,643 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,626 cps	7 cps

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Sample Type QC Analysis Date 10/15/2015 10:36:57 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0009 ppm	0.0000 ppm	0.0000 ppm	0.0003 ppm
Concentration per Run 1	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.003 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	-0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	281.8 %	1,364.0 %	757.4 %	182.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0001 ppm	0.0006 ppm	-0.0009 ppm	0.0009 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.002 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	-0.001 ppm	0.003 ppm
Concentration RSD	452.1 %	154.1 %	68.0 %	175.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0002 ppm	0.0002 ppm	0.0123 ppm	0.0041 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.002 ppm	0.007 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	-0.003 ppm	0.002 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.042 ppm	0.003 ppm
Concentration RSD	230.9 %	31.1 %	208.3 %	69.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0915 ppm	0.0012 ppm	0.0083 ppm	0.0034 ppm
Concentration per Run 1	0.021 ppm	0.002 ppm	0.007 ppm	-0.007 ppm
Concentration per Run 2	0.091 ppm	0.000 ppm	0.005 ppm	0.010 ppm
Concentration per Run 3	0.163 ppm	0.002 ppm	0.013 ppm	0.007 ppm
Concentration RSD	77.8 %	89.5 %	48.7 %	256.2 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0282 ppm	0.0149 ppm	0.0193 ppm	-0.0570 ppm
Concentration per Run 1	-0.052 ppm	0.007 ppm	0.019 ppm	-0.102 ppm
Concentration per Run 2	-0.001 ppm	0.044 ppm	0.036 ppm	-0.030 ppm
Concentration per Run 3	-0.031 ppm	-0.006 ppm	0.003 ppm	-0.039 ppm
Concentration RSD	91.5 %	173.9 %	85.8 %	68.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0077 ppm	0.0002 ppm	-0.0001 ppm	0.0013 ppm
Concentration per Run 1	0.007 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration per Run 2	0.007 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration per Run 3	0.009 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	16.6 %	87.3 %	197.9 %	60.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0001 ppm	-0.0041 ppm	-0.0020 ppm	0.0006 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	-0.002 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	-0.009 ppm	-0.002 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	-0.005 ppm	-0.002 ppm	0.000 ppm
Concentration RSD	113.7 %	120.4 %	2.5 %	68.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0085 ppm	0.0000 ppm	0.0020 ppm	-0.0002 ppm
Concentration per Run 1	0.006 ppm	0.000 ppm	0.004 ppm	0.000 ppm
Concentration per Run 2	0.007 ppm	0.000 ppm	0.001 ppm	0.000 ppm
Concentration per Run 3	0.012 ppm	0.000 ppm	0.002 ppm	-0.001 ppm
Concentration RSD	39.2 %	9,628.2 %	75.2 %	241.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0031 ppm	99.7245 %	97.5629 %	99.1568 %
Concentration per Run 1	0.003 ppm	99.857 %	97.648 %	99.062 %
Concentration per Run 2	0.008 ppm	99.805 %	97.738 %	99.259 %
Concentration per Run 3	-0.001 ppm	99.511 %	97.302 %	99.149 %
Concentration RSD	138.8 %	0.2 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.2 %	0.2 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	99.4253 %	-0.0266 ppm
Concentration per Run 1	99.394 %	-0.012 ppm
Concentration per Run 2	99.684 %	-0.014 ppm
Concentration per Run 3	99.199 %	-0.054 ppm
Concentration RSD	0.2 %	90.0 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	4 cps	1 cps	3 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	0 cps	-19 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	3 cps	14 cps	1 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2 cps	40 cps	89 cps	29 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	2 cps	-22 cps	-37 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	6 cps	-2 cps	-1 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	21 cps	-1 cps	0 cps	5 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-28 cps	52 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-1 cps	4,852 cps	7,417 cps	165,827 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,385 cps	0 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0113 ppm	0.0050 ppm	0.0021 ppm	0.0097 ppm
Concentration per Run 1	0.011 ppm	0.005 ppm	0.002 ppm	0.009 ppm
Concentration per Run 2	0.012 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration per Run 3	0.010 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration RSD	9.5 %	2.5 %	7.0 %	8.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0060 ppm	0.0102 ppm	0.0039 ppm	0.0070 ppm
Concentration per Run 1	0.008 ppm	0.010 ppm	0.004 ppm	0.005 ppm
Concentration per Run 2	0.005 ppm	0.011 ppm	0.005 ppm	0.005 ppm
Concentration per Run 3	0.005 ppm	0.009 ppm	0.003 ppm	0.011 ppm
Concentration RSD	21.9 %	7.6 %	15.9 %	50.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0098 ppm	0.0511 ppm	0.2296 ppm	0.1083 ppm
Concentration per Run 1	0.010 ppm	0.051 ppm	0.214 ppm	0.109 ppm
Concentration per Run 2	0.010 ppm	0.051 ppm	0.230 ppm	0.112 ppm
Concentration per Run 3	0.009 ppm	0.051 ppm	0.245 ppm	0.104 ppm
Concentration RSD	4.5 %	0.9 %	6.9 %	3.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.1671 ppm	0.0156 ppm	0.9982 ppm	1.0882 ppm
Concentration per Run 1	0.175 ppm	0.016 ppm	1.003 ppm	1.069 ppm
Concentration per Run 2	0.205 ppm	0.016 ppm	1.001 ppm	1.089 ppm
Concentration per Run 3	0.121 ppm	0.015 ppm	0.990 ppm	1.107 ppm
Concentration RSD	25.3 %	3.5 %	0.7 %	1.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	1.0314 ppm	1.0769 ppm	1.0497 ppm	1.1200 ppm
Concentration per Run 1	0.985 ppm	1.076 ppm	1.052 ppm	1.165 ppm
Concentration per Run 2	1.060 ppm	1.079 ppm	1.050 ppm	0.999 ppm
Concentration per Run 3	1.049 ppm	1.076 ppm	1.048 ppm	1.196 ppm
Concentration RSD	3.9 %	0.2 %	0.2 %	9.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0103 ppm	0.0021 ppm	0.0096 ppm	0.0098 ppm
Concentration per Run 1	0.010 ppm	0.002 ppm	0.010 ppm	0.011 ppm
Concentration per Run 2	0.011 ppm	0.002 ppm	0.010 ppm	0.009 ppm
Concentration per Run 3	0.010 ppm	0.002 ppm	0.009 ppm	0.009 ppm
Concentration RSD	3.9 %	3.8 %	0.7 %	10.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0103 ppm	0.0190 ppm	0.0481 ppm	0.0052 ppm
Concentration per Run 1	0.010 ppm	0.019 ppm	0.047 ppm	0.005 ppm
Concentration per Run 2	0.010 ppm	0.021 ppm	0.051 ppm	0.005 ppm
Concentration per Run 3	0.010 ppm	0.018 ppm	0.046 ppm	0.006 ppm
Concentration RSD	0.6 %	8.2 %	5.3 %	11.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0525 ppm	0.0101 ppm	0.0480 ppm	0.0486 ppm
Concentration per Run 1	0.050 ppm	0.010 ppm	0.048 ppm	0.049 ppm
Concentration per Run 2	0.059 ppm	0.010 ppm	0.048 ppm	0.049 ppm
Concentration per Run 3	0.049 ppm	0.010 ppm	0.048 ppm	0.048 ppm
Concentration RSD	10.5 %	3.2 %	0.8 %	1.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.8998 ppm	99.0616 %	97.7487 %	99.7627 %
Concentration per Run 1	0.902 ppm	98.955 %	98.854 %	99.937 %
Concentration per Run 2	0.903 ppm	99.301 %	96.823 %	99.774 %
Concentration per Run 3	0.895 ppm	98.929 %	97.569 %	99.578 %
Concentration RSD	0.5 %	0.2 %	1.1 %	0.2 %
Concentration SD	0.0 ppm	0.2 %	1.0 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.1697 %	-0.0504 ppm
Concentration per Run 1	99.842 %	-0.035 ppm
Concentration per Run 2	100.516 %	-0.062 ppm
Concentration per Run 3	100.151 %	-0.054 ppm
Concentration RSD	0.3 %	27.1 %
Concentration SD	0.3 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1 cps	42 cps	20 cps	90 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	3 cps	3 cps	25 cps	15 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	18 cps	293 cps	28 cps	53 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	4 cps	179 cps	575 cps	311 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	51 cps	611 cps	1,471 cps	78 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	7 cps	26 cps	55 cps	4 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	466 cps	9 cps	77 cps	14 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	15 cps	231 cps	168 cps	72 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	284 cps	4,820 cps	7,431 cps	166,840 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,515 cps	-4 cps

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Sample Type QC Analysis Date 10/15/2015 11:13:21 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0412 ppm	0.5053 ppm	0.5086 ppm	1.0227 ppm
Concentration per Run 1	2.042 ppm	0.505 ppm	0.508 ppm	1.023 ppm
Concentration per Run 2	2.036 ppm	0.506 ppm	0.509 ppm	1.022 ppm
Concentration per Run 3	2.045 ppm	0.505 ppm	0.509 ppm	1.024 ppm
Concentration RSD	0.2 %	0.1 %	0.0 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5077 ppm	2.0725 ppm	0.9839 ppm	2.0060 ppm
Concentration per Run 1	0.511 ppm	2.077 ppm	0.982 ppm	2.016 ppm
Concentration per Run 2	0.507 ppm	2.076 ppm	0.982 ppm	2.009 ppm
Concentration per Run 3	0.506 ppm	2.064 ppm	0.988 ppm	1.993 ppm
Concentration RSD	0.5 %	0.3 %	0.3 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0660 ppm	3.0717 ppm	10.2234 ppm	10.3911 ppm
Concentration per Run 1	2.076 ppm	3.076 ppm	10.247 ppm	10.447 ppm
Concentration per Run 2	2.061 ppm	3.069 ppm	10.261 ppm	10.366 ppm
Concentration per Run 3	2.061 ppm	3.070 ppm	10.162 ppm	10.361 ppm
Concentration RSD	0.4 %	0.1 %	0.5 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.9542 ppm	1.4774 ppm	49.6204 ppm	53.4157 ppm
Concentration per Run 1	11.089 ppm	1.488 ppm	50.014 ppm	53.830 ppm
Concentration per Run 2	10.871 ppm	1.470 ppm	49.436 ppm	53.143 ppm
Concentration per Run 3	10.903 ppm	1.474 ppm	49.411 ppm	53.274 ppm
Concentration RSD	1.1 %	0.7 %	0.7 %	0.7 %
Concentration SD	0.1 ppm	0.0 ppm	0.3 ppm	0.4 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.3676 ppm	50.2734 ppm	49.7999 ppm	51.4071 ppm
Concentration per Run 1	10.459 ppm	50.617 ppm	50.154 ppm	51.536 ppm
Concentration per Run 2	10.273 ppm	50.155 ppm	49.594 ppm	51.460 ppm
Concentration per Run 3	10.370 ppm	50.048 ppm	49.652 ppm	51.225 ppm
Concentration RSD	0.9 %	0.6 %	0.6 %	0.3 %
Concentration SD	0.1 ppm	0.3 ppm	0.3 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0160 ppm	0.2068 ppm	1.0217 ppm	1.9612 ppm
Concentration per Run 1	2.022 ppm	0.207 ppm	1.026 ppm	1.962 ppm
Concentration per Run 2	2.020 ppm	0.206 ppm	1.019 ppm	1.961 ppm
Concentration per Run 3	2.006 ppm	0.207 ppm	1.020 ppm	1.960 ppm
Concentration RSD	0.4 %	0.2 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9960 ppm	1.0270 ppm	1.0401 ppm	0.5254 ppm
Concentration per Run 1	0.996 ppm	1.029 ppm	1.044 ppm	0.526 ppm
Concentration per Run 2	0.994 ppm	1.026 ppm	1.042 ppm	0.526 ppm
Concentration per Run 3	0.998 ppm	1.026 ppm	1.034 ppm	0.524 ppm
Concentration RSD	0.2 %	0.2 %	0.6 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	2.0695 ppm	0.9910 ppm	1.9641 ppm	1.9541 ppm
Concentration per Run 1	2.059 ppm	0.998 ppm	1.965 ppm	1.957 ppm
Concentration per Run 2	2.064 ppm	0.988 ppm	1.959 ppm	1.953 ppm
Concentration per Run 3	2.085 ppm	0.987 ppm	1.969 ppm	1.952 ppm
Concentration RSD	0.7 %	0.6 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7606 ppm	87.3778 %	95.9069 %	93.4581 %
Concentration per Run 1	4.762 ppm	87.282 %	94.712 %	93.417 %
Concentration per Run 2	4.765 ppm	87.369 %	96.589 %	93.756 %
Concentration per Run 3	4.755 ppm	87.482 %	96.420 %	93.201 %
Concentration RSD	0.1 %	0.1 %	1.1 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	1.0 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	94.8054 %	0.0404 ppm
Concentration per Run 1	94.871 %	0.008 ppm
Concentration per Run 2	94.707 %	0.102 ppm
Concentration per Run 3	94.839 %	0.011 ppm
Concentration RSD	0.1 %	131.3 %
Concentration SD	0.1 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	819 cps	3,591 cps	4,256 cps	8,757 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	376 cps	586 cps	8,569 cps	1,151 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,958 cps	16,546 cps	635 cps	5,045 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	268 cps	14,011 cps	23,976 cps	13,678 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	486 cps	28,282 cps	70,766 cps	4,924 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,038 cps	2,930 cps	5,320 cps	1,179 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,724 cps	426 cps	1,568 cps	988 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	556 cps	24,977 cps	4,652 cps	2,652 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,429 cps	4,252 cps	7,291 cps	156,297 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,577 cps	12 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0006 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	55.9 %	502.5 %	102.2 %	110.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0002 ppm	-0.0003 ppm	-0.0011 ppm	-0.0025 ppm
Concentration per Run 1	0.000 ppm	-0.002 ppm	-0.002 ppm	-0.004 ppm
Concentration per Run 2	0.001 ppm	0.002 ppm	-0.001 ppm	-0.002 ppm
Concentration per Run 3	0.000 ppm	-0.001 ppm	-0.001 ppm	-0.001 ppm
Concentration RSD	225.1 %	749.3 %	40.3 %	51.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0002 ppm	0.0003 ppm	0.0051 ppm	0.0057 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.001 ppm	0.002 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.043 ppm	0.008 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.026 ppm	0.008 ppm
Concentration RSD	46.6 %	9.2 %	684.0 %	62.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0181 ppm	0.0018 ppm	0.0185 ppm	0.0279 ppm
Concentration per Run 1	-0.050 ppm	0.000 ppm	0.018 ppm	0.013 ppm
Concentration per Run 2	-0.047 ppm	0.003 ppm	0.016 ppm	0.039 ppm
Concentration per Run 3	0.042 ppm	0.002 ppm	0.021 ppm	0.032 ppm
Concentration RSD	288.3 %	84.3 %	13.3 %	47.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0047 ppm	0.1910 ppm	0.0295 ppm	0.0343 ppm
Concentration per Run 1	-0.011 ppm	0.247 ppm	0.022 ppm	0.031 ppm
Concentration per Run 2	0.005 ppm	0.129 ppm	0.032 ppm	-0.036 ppm
Concentration per Run 3	-0.009 ppm	0.197 ppm	0.034 ppm	0.108 ppm
Concentration RSD	178.5 %	31.0 %	21.3 %	211.2 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0051 ppm	0.0001 ppm	-0.0002 ppm	0.0004 ppm
Concentration per Run 1	0.004 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.006 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.005 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	13.3 %	210.5 %	37.6 %	145.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0001 ppm	0.0017 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.004 ppm	0.000 ppm	0.001 ppm
Concentration RSD	84.3 %	133.6 %	320.2 %	289.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0094 ppm	0.0006 ppm	0.0199 ppm	0.0000 ppm
Concentration per Run 1	0.005 ppm	0.001 ppm	0.022 ppm	0.000 ppm
Concentration per Run 2	0.014 ppm	0.001 ppm	0.019 ppm	-0.001 ppm
Concentration per Run 3	0.009 ppm	0.000 ppm	0.019 ppm	0.001 ppm
Concentration RSD	48.2 %	28.0 %	10.2 %	2,847.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0090 ppm	100.7138 %	98.2103 %	100.2391 %
Concentration per Run 1	0.008 ppm	100.824 %	98.050 %	99.722 %
Concentration per Run 2	0.010 ppm	100.790 %	97.926 %	100.335 %
Concentration per Run 3	0.009 ppm	100.527 %	98.655 %	100.660 %
Concentration RSD	13.5 %	0.2 %	0.4 %	0.5 %
Concentration SD	0.0 ppm	0.2 %	0.4 %	0.5 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.6009 %	-0.0027 ppm
Concentration per Run 1	100.689 %	-0.019 ppm
Concentration per Run 2	100.700 %	0.037 ppm
Concentration per Run 3	100.413 %	-0.025 ppm
Concentration RSD	0.2 %	1,259.1 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	5 cps	2 cps	-2 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	0 cps	-21 cps	10 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	4 cps	14 cps	2 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	-1 cps	45 cps	94 cps	35 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2 cps	104 cps	-7 cps	-29 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	-4 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	22 cps	1 cps	3 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-11 cps	98 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1 cps	4,900 cps	7,466 cps	167,637 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,590 cps	5 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0349 ppm	0.5051 ppm	0.5084 ppm	0.5971 ppm
Concentration per Run 1	2.033 ppm	0.504 ppm	0.507 ppm	N/A
Concentration per Run 2	2.032 ppm	0.505 ppm	0.509 ppm	0.258 ppm
Concentration per Run 3	2.040 ppm	0.506 ppm	0.509 ppm	0.936 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %	80.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.5 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5138 ppm	2.0609 ppm	0.5638 ppm	0.2805 ppm
Concentration per Run 1	0.514 ppm	2.052 ppm	N/A	0.111 ppm
Concentration per Run 2	0.513 ppm	2.063 ppm	0.228 ppm	0.340 ppm
Concentration per Run 3	0.515 ppm	2.068 ppm	0.900 ppm	0.391 ppm
Concentration RSD	0.2 %	0.4 %	84.2 %	53.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.5 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0635 ppm	3.0685 ppm	1.5743 ppm	1.4815 ppm
Concentration per Run 1	2.062 ppm	3.063 ppm	0.801 ppm	0.573 ppm
Concentration per Run 2	2.058 ppm	3.069 ppm	1.901 ppm	1.796 ppm
Concentration per Run 3	2.070 ppm	3.074 ppm	2.021 ppm	2.075 ppm
Concentration RSD	0.3 %	0.2 %	42.7 %	53.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.7 ppm	0.8 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	1.6176 ppm	0.2086 ppm	7.4797 ppm	7.9011 ppm
Concentration per Run 1	0.507 ppm	0.082 ppm	2.829 ppm	3.110 ppm
Concentration per Run 2	2.074 ppm	0.250 ppm	9.212 ppm	9.628 ppm
Concentration per Run 3	2.272 ppm	0.294 ppm	10.399 ppm	10.965 ppm
Concentration RSD	59.8 %	53.6 %	54.4 %	53.2 %
Concentration SD	1.0 ppm	0.1 ppm	4.1 ppm	4.2 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	1.6771 ppm	6.5666 ppm	2.7492 ppm	6.9270 ppm
Concentration per Run 1	0.691 ppm	2.839 ppm	2.749 ppm	1.942 ppm
Concentration per Run 2	2.050 ppm			8.603 ppm
Concentration per Run 3	2.290 ppm	10.294 ppm		10.237 ppm
Concentration RSD	51.4 %	80.3 %		63.4 %
Concentration SD	0.9 ppm	5.3 ppm		4.4 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0257 ppm	0.0280 ppm	1.0241 ppm	1.9649 ppm
Concentration per Run 1	2.027 ppm	0.010 ppm	1.025 ppm	1.965 ppm
Concentration per Run 2	2.028 ppm	0.034 ppm	1.021 ppm	1.958 ppm
Concentration per Run 3	2.021 ppm	0.040 ppm	1.026 ppm	1.972 ppm
Concentration RSD	0.2 %	57.3 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9143 ppm	0.1447 ppm	0.1425 ppm	0.5233 ppm
Concentration per Run 1	N/A	0.052 ppm	0.053 ppm	0.521 ppm
Concentration per Run 2		0.174 ppm	0.174 ppm	0.522 ppm
Concentration per Run 3	0.914 ppm	0.209 ppm	0.200 ppm	0.527 ppm
Concentration RSD		56.9 %	55.1 %	0.6 %
Concentration SD		0.1 ppm	0.1 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.3008 ppm	0.1348 ppm	1.1249 ppm	1.9494 ppm
Concentration per Run 1	0.101 ppm	0.050 ppm	N/A	1.945 ppm
Concentration per Run 2	0.375 ppm	0.164 ppm	0.460 ppm	1.948 ppm
Concentration per Run 3	0.426 ppm	0.191 ppm	1.789 ppm	1.955 ppm
Concentration RSD	58.1 %	55.3 %	83.5 %	0.3 %
Concentration SD	0.2 ppm	0.1 ppm	0.9 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7299 ppm	87.9068 %	105.3830 %	125.2726 %
Concentration per Run 1	4.711 ppm	87.944 %	75.440 %	
Concentration per Run 2	4.733 ppm	88.005 %	124.631 %	149.915 %
Concentration per Run 3	4.746 ppm	87.772 %	116.078 %	100.630 %
Concentration RSD	0.4 %	0.1 %	24.9 %	27.8 %
Concentration SD	0.0 ppm	0.1 %	26.3 %	34.8 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	95.6008 %	-0.0560 ppm
Concentration per Run 1	95.773 %	-0.034 ppm
Concentration per Run 2	95.547 %	-0.037 ppm
Concentration per Run 3	95.482 %	-0.097 ppm
Concentration RSD	0.2 %	62.9 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	823 cps	3,620 cps	4,290 cps	4,130 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	382 cps	587 cps	3,923 cps	202 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,978 cps	16,667 cps	127 cps	857 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	47 cps	2,380 cps	4,390 cps	2,435 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	95 cps	4,127 cps	3,036 cps	772 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,052 cps	470 cps	5,365 cps	1,188 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	20,637 cps	73 cps	260 cps	992 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	98 cps	4,031 cps	2,191 cps	2,668 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,432 cps	4,277 cps	8,012 cps	209,502 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,716 cps	-5 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0018 ppm	0.0000 ppm	0.0000 ppm	-0.0004 ppm
Concentration per Run 1	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.004 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	104.6 %	297.9 %	825.1 %	79.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0004 ppm	0.0023 ppm	-0.0003 ppm	-0.0012 ppm
Concentration per Run 1	-0.001 ppm	0.002 ppm	0.000 ppm	0.004 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	-0.001 ppm	-0.002 ppm
Concentration per Run 3	0.002 ppm	0.004 ppm	0.000 ppm	-0.006 ppm
Concentration RSD	354.4 %	82.4 %	157.2 %	408.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0003 ppm	0.0001 ppm	0.0076 ppm	0.0051 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.011 ppm	0.006 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	-0.020 ppm	0.005 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.032 ppm	0.003 ppm
Concentration RSD	116.7 %	53.5 %	341.8 %	28.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0343 ppm	0.0006 ppm	0.0103 ppm	0.0016 ppm
Concentration per Run 1	0.055 ppm	0.001 ppm	0.003 ppm	0.023 ppm
Concentration per Run 2	0.131 ppm	0.000 ppm	0.020 ppm	-0.025 ppm
Concentration per Run 3	-0.083 ppm	0.000 ppm	0.008 ppm	0.006 ppm
Concentration RSD	316.8 %	67.9 %	82.5 %	1,493.2 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0228 ppm	0.0677 ppm	0.0173 ppm	0.1739 ppm
Concentration per Run 1	-0.055 ppm	0.070 ppm	0.019 ppm	0.128 ppm
Concentration per Run 2	-0.002 ppm	0.088 ppm	0.021 ppm	0.146 ppm
Concentration per Run 3	-0.012 ppm	0.046 ppm	0.012 ppm	0.248 ppm
Concentration RSD	123.0 %	31.1 %	27.4 %	37.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0053 ppm	0.0001 ppm	-0.0002 ppm	0.0003 ppm
Concentration per Run 1	0.004 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.006 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.006 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	20.6 %	158.3 %	91.0 %	284.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0000 ppm	-0.0005 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.000 ppm	-0.003 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	0.001 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration RSD	282.3 %	353.4 %	1,027.8 %	104.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0115 ppm	0.0003 ppm	0.0145 ppm	-0.0001 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.014 ppm	0.000 ppm
Concentration per Run 2	0.012 ppm	0.000 ppm	0.012 ppm	0.000 ppm
Concentration per Run 3	0.017 ppm	0.000 ppm	0.018 ppm	0.000 ppm
Concentration RSD	54.1 %	19.4 %	19.5 %	218.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0110 ppm	101.2093 %	98.6311 %	101.0194 %
Concentration per Run 1	0.011 ppm	101.120 %	98.257 %	101.679 %
Concentration per Run 2	0.011 ppm	101.327 %	98.394 %	100.585 %
Concentration per Run 3	0.011 ppm	101.181 %	99.242 %	100.794 %
Concentration RSD	3.5 %	0.1 %	0.5 %	0.6 %
Concentration SD	0.0 ppm	0.1 %	0.5 %	0.6 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.0303 %	-0.0262 ppm
Concentration per Run 1	100.825 %	-0.030 ppm
Concentration per Run 2	101.249 %	-0.045 ppm
Concentration per Run 3	101.017 %	-0.003 ppm
Concentration RSD	0.2 %	81.3 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	4 cps	1 cps	-2 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-14 cps	11 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	3 cps	14 cps	2 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	34 cps	91 cps	29 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	33 cps	-25 cps	-15 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	-3 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	18 cps	0 cps	4 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	4 cps	-19 cps	85 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2 cps	4,925 cps	7,498 cps	168,942 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,666 cps	0 cps

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Sample Type QC Analysis Date 10/16/2015 12:20:34 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0365 ppm	0.5025 ppm	0.5065 ppm	1.0189 ppm
Concentration per Run 1	2.037 ppm	0.503 ppm	0.506 ppm	1.019 ppm
Concentration per Run 2	2.034 ppm	0.502 ppm	0.507 ppm	1.018 ppm
Concentration per Run 3	2.039 ppm	0.502 ppm	0.507 ppm	1.020 ppm
Concentration RSD	0.1 %	0.1 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5064 ppm	2.0710 ppm	0.9852 ppm	2.0261 ppm
Concentration per Run 1	0.505 ppm	2.067 ppm	0.985 ppm	2.017 ppm
Concentration per Run 2	0.509 ppm	2.067 ppm	0.988 ppm	2.034 ppm
Concentration per Run 3	0.504 ppm	2.079 ppm	0.983 ppm	2.028 ppm
Concentration RSD	0.5 %	0.3 %	0.2 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0631 ppm	3.0526 ppm	10.2108 ppm	10.4115 ppm
Concentration per Run 1	2.063 ppm	3.049 ppm	10.247 ppm	10.432 ppm
Concentration per Run 2	2.068 ppm	3.064 ppm	10.181 ppm	10.361 ppm
Concentration per Run 3	2.059 ppm	3.044 ppm	10.205 ppm	10.442 ppm
Concentration RSD	0.2 %	0.3 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	11.0865 ppm	1.4914 ppm	49.7949 ppm	53.5469 ppm
Concentration per Run 1	11.116 ppm	1.495 ppm	49.801 ppm	53.566 ppm
Concentration per Run 2	11.088 ppm	1.487 ppm	49.550 ppm	53.445 ppm
Concentration per Run 3	11.055 ppm	1.492 ppm	50.033 ppm	53.630 ppm
Concentration RSD	0.3 %	0.3 %	0.5 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.2 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.4092 ppm	51.0452 ppm	49.9702 ppm	51.9334 ppm
Concentration per Run 1	10.328 ppm	51.101 ppm	49.962 ppm	51.921 ppm
Concentration per Run 2	10.368 ppm	50.967 ppm	49.857 ppm	51.930 ppm
Concentration per Run 3	10.531 ppm	51.068 ppm	50.092 ppm	51.949 ppm
Concentration RSD	1.0 %	0.1 %	0.2 %	0.0 %
Concentration SD	0.1 ppm	0.1 ppm	0.1 ppm	0.0 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0073 ppm	0.2069 ppm	1.0213 ppm	1.9663 ppm
Concentration per Run 1	2.012 ppm	0.207 ppm	1.022 ppm	1.969 ppm
Concentration per Run 2	2.008 ppm	0.206 ppm	1.024 ppm	1.974 ppm
Concentration per Run 3	2.002 ppm	0.208 ppm	1.018 ppm	1.956 ppm
Concentration RSD	0.3 %	0.3 %	0.3 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9956 ppm	1.0377 ppm	1.0444 ppm	0.5159 ppm
Concentration per Run 1	0.996 ppm	1.036 ppm	1.046 ppm	0.517 ppm
Concentration per Run 2	0.997 ppm	1.034 ppm	1.043 ppm	0.516 ppm
Concentration per Run 3	0.994 ppm	1.043 ppm	1.044 ppm	0.515 ppm
Concentration RSD	0.2 %	0.5 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	2.0867 ppm	0.9972 ppm	1.9539 ppm	1.9540 ppm
Concentration per Run 1	2.090 ppm	0.998 ppm	1.954 ppm	1.954 ppm
Concentration per Run 2	2.090 ppm	0.994 ppm	1.955 ppm	1.957 ppm
Concentration per Run 3	2.081 ppm	0.999 ppm	1.953 ppm	1.952 ppm
Concentration RSD	0.3 %	0.3 %	0.0 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7346 ppm	87.8395 %	96.5054 %	93.9031 %
Concentration per Run 1	4.731 ppm	87.748 %	96.314 %	93.788 %
Concentration per Run 2	4.745 ppm	87.753 %	96.354 %	93.779 %
Concentration per Run 3	4.728 ppm	88.017 %	96.848 %	94.143 %
Concentration RSD	0.2 %	0.2 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.2 %	0.3 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	95.6150 %	-0.0070 ppm
Concentration per Run 1	95.563 %	0.036 ppm
Concentration per Run 2	95.642 %	-0.051 ppm
Concentration per Run 3	95.640 %	-0.006 ppm
Concentration RSD	0.0 %	621.6 %
Concentration SD	0.0 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	824 cps	3,602 cps	4,275 cps	8,766 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	377 cps	590 cps	8,621 cps	1,170 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,974 cps	16,584 cps	638 cps	5,086 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	272 cps	14,232 cps	24,211 cps	13,798 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	491 cps	28,897 cps	71,455 cps	5,006 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,043 cps	2,950 cps	5,346 cps	1,188 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,901 cps	434 cps	1,585 cps	978 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	564 cps	25,292 cps	4,650 cps	2,674 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,433 cps	4,274 cps	7,337 cps	157,041 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,719 cps	4 cps

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Sample Type QC Analysis Date 10/16/2015 12:23:20 AM

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0025 ppm	0.0000 ppm	-0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.003 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	35.0 %	149.5 %	292.9 %	67.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0013 ppm	0.0024 ppm	0.0003 ppm	-0.0010 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.001 ppm	-0.005 ppm
Concentration per Run 2	0.001 ppm	0.006 ppm	0.001 ppm	-0.005 ppm
Concentration per Run 3	0.001 ppm	0.001 ppm	0.000 ppm	0.007 ppm
Concentration RSD	9.3 %	115.0 %	153.9 %	695.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0002 ppm	0.0002 ppm	0.0146 ppm	0.0067 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.022 ppm	0.007 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.069 ppm	0.008 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.047 ppm	0.005 ppm
Concentration RSD	111.4 %	38.3 %	397.8 %	19.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.1106 ppm	0.0013 ppm	0.0105 ppm	0.0053 ppm
Concentration per Run 1	0.117 ppm	0.000 ppm	0.017 ppm	0.002 ppm
Concentration per Run 2	0.139 ppm	0.001 ppm	0.008 ppm	0.004 ppm
Concentration per Run 3	0.076 ppm	0.003 ppm	0.007 ppm	0.010 ppm
Concentration RSD	29.1 %	132.5 %	52.0 %	79.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0442 ppm	0.0431 ppm	0.0194 ppm	0.1962 ppm
Concentration per Run 1	-0.076 ppm	0.050 ppm	0.024 ppm	0.046 ppm
Concentration per Run 2	0.005 ppm	0.070 ppm	0.017 ppm	0.408 ppm
Concentration per Run 3	-0.061 ppm	0.010 ppm	0.017 ppm	0.135 ppm
Concentration RSD	97.8 %	70.3 %	18.5 %	96.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0047 ppm	0.0001 ppm	-0.0001 ppm	-0.0001 ppm
Concentration per Run 1	0.004 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.004 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.006 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	15.6 %	72.1 %	65.4 %	460.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0001 ppm	0.0006 ppm	-0.0009 ppm	0.0005 ppm
Concentration per Run 1	0.000 ppm	0.003 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.001 ppm	-0.002 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.002 ppm	0.001 ppm
Concentration RSD	37.2 %	291.4 %	223.7 %	45.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0111 ppm	0.0004 ppm	0.0154 ppm	0.0000 ppm
Concentration per Run 1	0.015 ppm	0.000 ppm	0.017 ppm	0.000 ppm
Concentration per Run 2	0.006 ppm	0.001 ppm	0.011 ppm	0.000 ppm
Concentration per Run 3	0.013 ppm	0.000 ppm	0.018 ppm	0.000 ppm
Concentration RSD	43.3 %	43.1 %	21.9 %	604.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0120 ppm	101.4355 %	98.6237 %	101.3189 %
Concentration per Run 1	0.012 ppm	101.630 %	98.395 %	101.247 %
Concentration per Run 2	0.011 ppm	101.607 %	99.296 %	101.316 %
Concentration per Run 3	0.013 ppm	101.070 %	98.180 %	101.393 %
Concentration RSD	7.8 %	0.3 %	0.6 %	0.1 %
Concentration SD	0.0 ppm	0.3 %	0.6 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.4161 %	-0.0549 ppm
Concentration per Run 1	101.541 %	-0.062 ppm
Concentration per Run 2	101.654 %	-0.076 ppm
Concentration per Run 3	101.053 %	-0.026 ppm
Concentration RSD	0.3 %	46.7 %
Concentration SD	0.3 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	4 cps	1 cps	0 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	1 cps	-8 cps	11 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	3 cps	15 cps	3 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	3 cps	41 cps	91 cps	30 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	18 cps	-22 cps	-13 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	-3 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	22 cps	1 cps	2 cps	5 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	4 cps	-17 cps	87 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2 cps	4,936 cps	7,498 cps	169,443 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,733 cps	-5 cps

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CCV 15I21330

Sample Type QC Analysis Date 10/16/2015 12:56:47 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0294 ppm	0.5001 ppm	0.5045 ppm	1.0206 ppm
Concentration per Run 1	2.028 ppm	0.500 ppm	0.505 ppm	1.017 ppm
Concentration per Run 2	2.030 ppm	0.500 ppm	0.504 ppm	1.023 ppm
Concentration per Run 3	2.030 ppm	0.499 ppm	0.505 ppm	1.022 ppm
Concentration RSD	0.1 %	0.1 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5031 ppm	2.0653 ppm	0.9775 ppm	2.0059 ppm
Concentration per Run 1	0.501 ppm	2.072 ppm	0.977 ppm	2.006 ppm
Concentration per Run 2	0.504 ppm	2.067 ppm	0.977 ppm	1.999 ppm
Concentration per Run 3	0.504 ppm	2.056 ppm	0.978 ppm	2.012 ppm
Concentration RSD	0.3 %	0.4 %	0.0 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0556 ppm	3.0387 ppm	10.2176 ppm	10.4405 ppm
Concentration per Run 1	2.057 ppm	3.042 ppm	10.311 ppm	10.489 ppm
Concentration per Run 2	2.057 ppm	3.036 ppm	10.096 ppm	10.390 ppm
Concentration per Run 3	2.053 ppm	3.038 ppm	10.245 ppm	10.443 ppm
Concentration RSD	0.1 %	0.1 %	1.1 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.8479 ppm	1.4739 ppm	49.7824 ppm	53.2040 ppm
Concentration per Run 1	10.782 ppm	1.480 ppm	50.084 ppm	53.483 ppm
Concentration per Run 2	10.875 ppm	1.471 ppm	49.680 ppm	53.033 ppm
Concentration per Run 3	10.887 ppm	1.471 ppm	49.583 ppm	53.097 ppm
Concentration RSD	0.5 %	0.4 %	0.5 %	0.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.3 ppm	0.2 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.4734 ppm	50.5238 ppm	49.9346 ppm	51.7124 ppm
Concentration per Run 1	10.520 ppm	50.752 ppm	50.191 ppm	51.879 ppm
Concentration per Run 2	10.394 ppm	50.404 ppm	49.788 ppm	51.543 ppm
Concentration per Run 3	10.506 ppm	50.416 ppm	49.825 ppm	51.715 ppm
Concentration RSD	0.7 %	0.4 %	0.4 %	0.3 %
Concentration SD	0.1 ppm	0.2 ppm	0.2 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0020 ppm	0.2065 ppm	1.0164 ppm	1.9604 ppm
Concentration per Run 1	2.007 ppm	0.207 ppm	1.019 ppm	1.965 ppm
Concentration per Run 2	2.003 ppm	0.206 ppm	1.016 ppm	1.959 ppm
Concentration per Run 3	1.996 ppm	0.206 ppm	1.014 ppm	1.958 ppm
Concentration RSD	0.3 %	0.3 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9886 ppm	1.0291 ppm	1.0380 ppm	0.5116 ppm
Concentration per Run 1	0.987 ppm	1.024 ppm	1.040 ppm	0.514 ppm
Concentration per Run 2	0.988 ppm	1.028 ppm	1.034 ppm	0.511 ppm
Concentration per Run 3	0.991 ppm	1.035 ppm	1.040 ppm	0.510 ppm
Concentration RSD	0.2 %	0.6 %	0.3 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	2.0791 ppm	0.9896 ppm	1.9474 ppm	1.9473 ppm
Concentration per Run 1	2.085 ppm	0.994 ppm	1.944 ppm	1.952 ppm
Concentration per Run 2	2.071 ppm	0.986 ppm	1.945 ppm	1.947 ppm
Concentration per Run 3	2.081 ppm	0.988 ppm	1.953 ppm	1.943 ppm
Concentration RSD	0.3 %	0.4 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7293 ppm	88.0827 %	97.2545 %	94.3026 %
Concentration per Run 1	4.727 ppm	88.107 %	96.290 %	94.424 %
Concentration per Run 2	4.735 ppm	87.935 %	97.724 %	94.232 %
Concentration per Run 3	4.726 ppm	88.206 %	97.750 %	94.252 %
Concentration RSD	0.1 %	0.2 %	0.9 %	0.1 %
Concentration SD	0.0 ppm	0.1 %	0.8 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	95.8118 %	-0.0095 ppm
Concentration per Run 1	95.869 %	0.005 ppm
Concentration per Run 2	95.674 %	-0.025 ppm
Concentration per Run 3	95.892 %	-0.009 ppm
Concentration RSD	0.1 %	157.7 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	823 cps	3,593 cps	4,267 cps	8,818 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	375 cps	590 cps	8,590 cps	1,168 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,970 cps	16,542 cps	644 cps	5,140 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	269 cps	14,174 cps	24,392 cps	13,816 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	498 cps	28,823 cps	71,956 cps	5,023 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,042 cps	2,967 cps	5,335 cps	1,188 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,788 cps	433 cps	1,587 cps	972 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	567 cps	25,293 cps	4,655 cps	2,671 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,435 cps	4,286 cps	7,394 cps	157,709 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,753 cps	3 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0024 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	0.003 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	37.3 %	126.4 %	2,460.1 %	237.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0006 ppm	0.0029 ppm	0.0004 ppm	-0.0024 ppm
Concentration per Run 1	0.001 ppm	0.004 ppm	0.000 ppm	0.002 ppm
Concentration per Run 2	0.000 ppm	0.003 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 3	0.001 ppm	0.001 ppm	0.000 ppm	-0.007 ppm
Concentration RSD	117.8 %	47.7 %	34.4 %	182.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0002 ppm	0.0000 ppm	0.0261 ppm	0.0030 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.002 ppm	0.005 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.028 ppm	0.002 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.052 ppm	0.003 ppm
Concentration RSD	144.1 %	215.4 %	105.2 %	53.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0322 ppm	-0.0007 ppm	0.0080 ppm	0.0031 ppm
Concentration per Run 1	0.063 ppm	-0.001 ppm	0.011 ppm	0.007 ppm
Concentration per Run 2	-0.030 ppm	-0.001 ppm	0.002 ppm	0.000 ppm
Concentration per Run 3	0.064 ppm	0.001 ppm	0.011 ppm	0.002 ppm
Concentration RSD	167.3 %	151.7 %	67.7 %	124.6 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0080 ppm	0.0143 ppm	0.0125 ppm	0.1234 ppm
Concentration per Run 1	-0.017 ppm	0.038 ppm	0.017 ppm	0.120 ppm
Concentration per Run 2	-0.005 ppm	0.008 ppm	0.011 ppm	0.028 ppm
Concentration per Run 3	-0.002 ppm	-0.003 ppm	0.010 ppm	0.222 ppm
Concentration RSD	97.1 %	147.1 %	28.5 %	78.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0046 ppm	0.0001 ppm	-0.0001 ppm	0.0011 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.004 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration per Run 3	0.005 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	17.0 %	36.7 %	311.0 %	101.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0001 ppm	-0.0029 ppm	-0.0012 ppm	0.0001 ppm
Concentration per Run 1	0.000 ppm	-0.004 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.004 ppm	-0.002 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration RSD	35.9 %	81.6 %	42.6 %	582.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0110 ppm	0.0003 ppm	0.0173 ppm	-0.0001 ppm
Concentration per Run 1	0.008 ppm	0.000 ppm	0.018 ppm	0.000 ppm
Concentration per Run 2	0.015 ppm	0.000 ppm	0.015 ppm	0.000 ppm
Concentration per Run 3	0.010 ppm	0.000 ppm	0.018 ppm	0.000 ppm
Concentration RSD	34.5 %	39.7 %	9.7 %	134.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0080 ppm	101.2751 %	98.6727 %	100.9427 %
Concentration per Run 1	0.009 ppm	101.360 %	98.595 %	101.012 %
Concentration per Run 2	0.011 ppm	101.184 %	98.718 %	100.981 %
Concentration per Run 3	0.004 ppm	101.282 %	98.705 %	100.834 %
Concentration RSD	48.3 %	0.1 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.1 %	0.1 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.4621 %	0.0002 ppm
Concentration per Run 1	101.564 %	-0.054 ppm
Concentration per Run 2	101.474 %	0.006 ppm
Concentration per Run 3	101.348 %	0.050 ppm
Concentration RSD	0.1 %	20,895.6 %
Concentration SD	0.1 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	4 cps	1 cps	3 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	1 cps	-8 cps	10 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	2 cps	15 cps	1 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	22 cps	90 cps	29 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	2 cps	-32 cps	-20 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	-2 cps	-1 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	20 cps	-1 cps	2 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	4 cps	-20 cps	92 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1 cps	4,928 cps	7,502 cps	168,814 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,741 cps	5 cps

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Sample Type QC Analysis Date 10/16/2015 1:33:41 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0472 ppm	0.5056 ppm	0.5088 ppm	1.0203 ppm
Concentration per Run 1	2.044 ppm	0.507 ppm	0.508 ppm	1.018 ppm
Concentration per Run 2	2.049 ppm	0.506 ppm	0.509 ppm	1.024 ppm
Concentration per Run 3	2.048 ppm	0.504 ppm	0.509 ppm	1.019 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5072 ppm	2.0752 ppm	0.9798 ppm	2.0163 ppm
Concentration per Run 1	0.507 ppm	2.076 ppm	0.980 ppm	2.006 ppm
Concentration per Run 2	0.507 ppm	2.074 ppm	0.981 ppm	2.019 ppm
Concentration per Run 3	0.508 ppm	2.076 ppm	0.978 ppm	2.023 ppm
Concentration RSD	0.1 %	0.1 %	0.2 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0682 ppm	3.0662 ppm	10.3026 ppm	10.5620 ppm
Concentration per Run 1	2.067 ppm	3.067 ppm	10.364 ppm	10.564 ppm
Concentration per Run 2	2.067 ppm	3.065 ppm	10.286 ppm	10.561 ppm
Concentration per Run 3	2.071 ppm	3.066 ppm	10.258 ppm	10.562 ppm
Concentration RSD	0.1 %	0.0 %	0.5 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.9958 ppm	1.4937 ppm	49.4062 ppm	52.9320 ppm
Concentration per Run 1	11.014 ppm	1.497 ppm	49.429 ppm	53.015 ppm
Concentration per Run 2	11.062 ppm	1.496 ppm	49.449 ppm	52.926 ppm
Concentration per Run 3	10.911 ppm	1.488 ppm	49.341 ppm	52.854 ppm
Concentration RSD	0.7 %	0.3 %	0.1 %	0.2 %
Concentration SD	0.1 ppm	0.0 ppm	0.1 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.3703 ppm	50.9214 ppm	50.3633 ppm	52.6113 ppm
Concentration per Run 1	10.346 ppm	51.006 ppm	50.499 ppm	52.511 ppm
Concentration per Run 2	10.362 ppm	50.896 ppm	50.395 ppm	52.507 ppm
Concentration per Run 3	10.403 ppm	50.863 ppm	50.195 ppm	52.816 ppm
Concentration RSD	0.3 %	0.1 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.1 ppm	0.2 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0165 ppm	0.2078 ppm	1.0232 ppm	1.9512 ppm
Concentration per Run 1	2.024 ppm	0.208 ppm	1.024 ppm	1.953 ppm
Concentration per Run 2	2.017 ppm	0.208 ppm	1.023 ppm	1.950 ppm
Concentration per Run 3	2.008 ppm	0.207 ppm	1.023 ppm	1.950 ppm
Concentration RSD	0.4 %	0.3 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9940 ppm	1.0375 ppm	1.0287 ppm	0.5323 ppm
Concentration per Run 1	0.992 ppm	1.037 ppm	1.034 ppm	0.531 ppm
Concentration per Run 2	0.997 ppm	1.041 ppm	1.030 ppm	0.534 ppm
Concentration per Run 3	0.993 ppm	1.034 ppm	1.021 ppm	0.532 ppm
Concentration RSD	0.2 %	0.3 %	0.6 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	2.0930 ppm	0.9835 ppm	1.9576 ppm	1.9430 ppm
Concentration per Run 1	2.092 ppm	0.986 ppm	1.952 ppm	1.942 ppm
Concentration per Run 2	2.095 ppm	0.983 ppm	1.962 ppm	1.944 ppm
Concentration per Run 3	2.092 ppm	0.982 ppm	1.959 ppm	1.943 ppm
Concentration RSD	0.1 %	0.3 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7662 ppm	87.7177 %	96.2201 %	93.9655 %
Concentration per Run 1	4.783 ppm	87.638 %	96.188 %	94.149 %
Concentration per Run 2	4.760 ppm	87.883 %	96.370 %	93.676 %
Concentration per Run 3	4.756 ppm	87.633 %	96.103 %	94.072 %
Concentration RSD	0.3 %	0.2 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	0.1 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	95.2476 %	-0.0215 ppm
Concentration per Run 1	95.146 %	-0.050 ppm
Concentration per Run 2	95.339 %	-0.035 ppm
Concentration per Run 3	95.258 %	0.021 ppm
Concentration RSD	0.1 %	173.7 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	825 cps	3,611 cps	4,277 cps	8,784 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	377 cps	589 cps	8,580 cps	1,161 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,978 cps	16,593 cps	642 cps	5,145 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	269 cps	14,212 cps	23,952 cps	13,600 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	487 cps	28,742 cps	71,804 cps	5,056 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,043 cps	2,954 cps	5,348 cps	1,177 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,863 cps	432 cps	1,556 cps	1,005 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	564 cps	24,869 cps	4,662 cps	2,649 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,438 cps	4,268 cps	7,315 cps	157,145 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,654 cps	1 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0025 ppm	-0.0001 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.004 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.003 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	64.9 %	8.5 %	179.6 %	818.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	-0.0001 ppm	0.0009 ppm	-0.0001 ppm	-0.0025 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	-0.001 ppm	-0.006 ppm
Concentration RSD	284.7 %	109.2 %	273.4 %	126.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0002 ppm	0.0001 ppm	0.0038 ppm	0.0088 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.009 ppm	0.008 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.010 ppm	0.009 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.012 ppm	0.010 ppm
Concentration RSD	76.4 %	57.5 %	310.0 %	11.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0402 ppm	-0.0001 ppm	0.0152 ppm	0.0121 ppm
Concentration per Run 1	-0.175 ppm	0.001 ppm	0.016 ppm	0.018 ppm
Concentration per Run 2	0.040 ppm	-0.001 ppm	0.019 ppm	-0.001 ppm
Concentration per Run 3	0.015 ppm	0.000 ppm	0.010 ppm	0.019 ppm
Concentration RSD	291.8 %	1,336.1 %	30.0 %	91.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0506 ppm	0.0287 ppm	0.0118 ppm	0.1769 ppm
Concentration per Run 1	-0.070 ppm	0.021 ppm	0.001 ppm	0.276 ppm
Concentration per Run 2	-0.025 ppm	0.027 ppm	0.018 ppm	0.056 ppm
Concentration per Run 3	-0.056 ppm	0.038 ppm	0.017 ppm	0.198 ppm
Concentration RSD	45.2 %	30.7 %	81.5 %	62.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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QTEGRA

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0053 ppm	0.0001 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 1	0.004 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.007 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 3	0.005 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	21.1 %	64.1 %	103.0 %	492.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0004 ppm	0.0018 ppm	-0.0013 ppm	-0.0004 ppm
Concentration per Run 1	0.000 ppm	-0.003 ppm	-0.004 ppm	-0.001 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.001 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.008 ppm	-0.001 ppm	0.000 ppm
Concentration RSD	20.8 %	306.2 %	214.7 %	164.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0010 ppm	0.0002 ppm	0.0160 ppm	-0.0001 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.019 ppm	0.000 ppm
Concentration per Run 2	-0.002 ppm	0.000 ppm	0.016 ppm	0.000 ppm
Concentration per Run 3	0.005 ppm	0.000 ppm	0.013 ppm	0.000 ppm
Concentration RSD	347.7 %	52.5 %	18.5 %	763.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0116 ppm	101.1175 %	97.4771 %	101.2268 %
Concentration per Run 1	0.011 ppm	101.068 %	97.326 %	101.343 %
Concentration per Run 2	0.012 ppm	101.275 %	97.774 %	101.275 %
Concentration per Run 3	0.012 ppm	101.009 %	97.331 %	101.063 %
Concentration RSD	3.8 %	0.1 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	0.1 %	0.3 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.2730 %	0.0052 ppm
Concentration per Run 1	101.287 %	-0.010 ppm
Concentration per Run 2	101.355 %	-0.019 ppm
Concentration per Run 3	101.177 %	0.045 ppm
Concentration RSD	0.1 %	672.9 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	4 cps	1 cps	2 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	0 cps	-12 cps	10 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	3 cps	14 cps	4 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	-1 cps	27 cps	92 cps	31 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	-1 cps	10 cps	-33 cps	-14 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	-3 cps	0 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	36 cps	1 cps	1 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	1 cps	-23 cps	89 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2 cps	4,920 cps	7,411 cps	169,289 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,708 cps	6 cps

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CCV 15I21330

Sample Type QC Analysis Date 10/16/2015 2:03:47 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0536 ppm	0.5088 ppm	0.5106 ppm	1.0212 ppm
Concentration per Run 1	2.059 ppm	0.509 ppm	0.511 ppm	1.019 ppm
Concentration per Run 2	2.050 ppm	0.508 ppm	0.510 ppm	1.026 ppm
Concentration per Run 3	2.052 ppm	0.509 ppm	0.511 ppm	1.019 ppm
Concentration RSD	0.2 %	0.1 %	0.1 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5048 ppm	2.0906 ppm	0.9807 ppm	2.0147 ppm
Concentration per Run 1	0.504 ppm	2.094 ppm	0.978 ppm	2.012 ppm
Concentration per Run 2	0.502 ppm	2.090 ppm	0.983 ppm	2.015 ppm
Concentration per Run 3	0.508 ppm	2.089 ppm	0.981 ppm	2.018 ppm
Concentration RSD	0.6 %	0.1 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0693 ppm	3.0667 ppm	10.3320 ppm	10.5757 ppm
Concentration per Run 1	2.067 ppm	3.064 ppm	10.263 ppm	10.578 ppm
Concentration per Run 2	2.070 ppm	3.063 ppm	10.388 ppm	10.583 ppm
Concentration per Run 3	2.071 ppm	3.073 ppm	10.345 ppm	10.566 ppm
Concentration RSD	0.1 %	0.2 %	0.6 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.8912 ppm	1.5068 ppm	48.9886 ppm	52.4499 ppm
Concentration per Run 1	10.803 ppm	1.504 ppm	49.079 ppm	52.520 ppm
Concentration per Run 2	10.969 ppm	1.507 ppm	48.931 ppm	52.439 ppm
Concentration per Run 3	10.901 ppm	1.509 ppm	48.956 ppm	52.391 ppm
Concentration RSD	0.8 %	0.2 %	0.2 %	0.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.1 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.2822 ppm	50.8419 ppm	50.2190 ppm	52.6429 ppm
Concentration per Run 1	10.311 ppm	50.824 ppm	50.223 ppm	52.493 ppm
Concentration per Run 2	10.273 ppm	50.905 ppm	50.226 ppm	52.965 ppm
Concentration per Run 3	10.263 ppm	50.797 ppm	50.208 ppm	52.470 ppm
Concentration RSD	0.2 %	0.1 %	0.0 %	0.5 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm	0.3 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0357 ppm	0.2079 ppm	1.0245 ppm	1.9443 ppm
Concentration per Run 1	2.041 ppm	0.207 ppm	1.024 ppm	1.942 ppm
Concentration per Run 2	2.037 ppm	0.209 ppm	1.024 ppm	1.945 ppm
Concentration per Run 3	2.029 ppm	0.208 ppm	1.026 ppm	1.946 ppm
Concentration RSD	0.3 %	0.3 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9955 ppm	1.0413 ppm	1.0213 ppm	0.5440 ppm
Concentration per Run 1	0.994 ppm	1.044 ppm	1.020 ppm	0.546 ppm
Concentration per Run 2	0.998 ppm	1.043 ppm	1.028 ppm	0.543 ppm
Concentration per Run 3	0.995 ppm	1.037 ppm	1.016 ppm	0.544 ppm
Concentration RSD	0.2 %	0.4 %	0.6 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	2.1135 ppm	0.9780 ppm	1.9628 ppm	1.9407 ppm
Concentration per Run 1	2.116 ppm	0.977 ppm	1.960 ppm	1.940 ppm
Concentration per Run 2	2.113 ppm	0.980 ppm	1.967 ppm	1.939 ppm
Concentration per Run 3	2.112 ppm	0.977 ppm	1.962 ppm	1.943 ppm
Concentration RSD	0.1 %	0.2 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.8034 ppm	87.5345 %	96.1931 %	93.5922 %
Concentration per Run 1	4.808 ppm	87.386 %	95.842 %	93.566 %
Concentration per Run 2	4.804 ppm	87.545 %	95.985 %	93.335 %
Concentration per Run 3	4.798 ppm	87.672 %	96.751 %	93.875 %
Concentration RSD	0.1 %	0.2 %	0.5 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	0.5 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	94.8500 %	0.0194 ppm
Concentration per Run 1	94.623 %	0.066 ppm
Concentration per Run 2	94.883 %	0.030 ppm
Concentration per Run 3	95.043 %	-0.038 ppm
Concentration RSD	0.2 %	271.7 %
Concentration SD	0.2 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	825 cps	3,618 cps	4,275 cps	8,757 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	374 cps	591 cps	8,554 cps	1,160 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,972 cps	16,527 cps	644 cps	5,150 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	267 cps	14,332 cps	23,743 cps	13,472 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	483 cps	28,689 cps	71,578 cps	5,058 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,049 cps	2,955 cps	5,344 cps	1,170 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,762 cps	434 cps	1,545 cps	1,023 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	570 cps	24,724 cps	4,656 cps	2,635 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,443 cps	4,259 cps	7,313 cps	156,521 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,585 cps	9 cps

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Sample Type QC Analysis Date 10/16/2015 2:06:33 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0034 ppm	0.0001 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.004 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	47.1 %	195.0 %	1,036.8 %	185.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0002 ppm	0.0028 ppm	0.0004 ppm	-0.0034 ppm
Concentration per Run 1	0.000 ppm	0.003 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.004 ppm	0.001 ppm	-0.002 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	0.000 ppm	-0.009 ppm
Concentration RSD	59.8 %	53.4 %	165.8 %	143.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0003 ppm	0.0001 ppm	-0.0364 ppm	0.0068 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.016 ppm	0.009 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.009 ppm	0.006 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.085 ppm	0.006 ppm
Concentration RSD	58.8 %	79.7 %	115.1 %	23.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0120 ppm	0.0004 ppm	0.0147 ppm	0.0074 ppm
Concentration per Run 1	0.057 ppm	0.001 ppm	0.018 ppm	0.024 ppm
Concentration per Run 2	-0.108 ppm	0.000 ppm	0.012 ppm	0.002 ppm
Concentration per Run 3	0.088 ppm	0.000 ppm	0.013 ppm	-0.004 ppm
Concentration RSD	879.9 %	145.6 %	22.0 %	204.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0060 ppm	0.0163 ppm	0.0381 ppm	0.1207 ppm
Concentration per Run 1	0.003 ppm	0.026 ppm	0.041 ppm	-0.088 ppm
Concentration per Run 2	0.010 ppm	0.030 ppm	0.034 ppm	0.026 ppm
Concentration per Run 3	-0.031 ppm	-0.007 ppm	0.039 ppm	0.424 ppm
Concentration RSD	366.3 %	126.2 %	9.5 %	223.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.3 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0053 ppm	0.0002 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.007 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.005 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	21.6 %	14.3 %	303.2 %	213.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0001 ppm	-0.0009 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 1	0.000 ppm	-0.002 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.004 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.003 ppm	-0.001 ppm	0.001 ppm
Concentration RSD	158.0 %	379.8 %	154.8 %	107.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0155 ppm	0.0002 ppm	0.0159 ppm	-0.0001 ppm
Concentration per Run 1	0.016 ppm	0.000 ppm	0.020 ppm	0.000 ppm
Concentration per Run 2	0.017 ppm	0.000 ppm	0.013 ppm	0.000 ppm
Concentration per Run 3	0.014 ppm	0.000 ppm	0.015 ppm	0.000 ppm
Concentration RSD	11.0 %	32.8 %	22.4 %	285.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0257 ppm	100.9978 %	96.9236 %	100.6725 %
Concentration per Run 1	0.026 ppm	101.018 %	96.760 %	100.663 %
Concentration per Run 2	0.025 ppm	100.978 %	97.543 %	100.678 %
Concentration per Run 3	0.026 ppm	100.998 %	96.468 %	100.676 %
Concentration RSD	2.4 %	0.0 %	0.6 %	0.0 %
Concentration SD	0.0 ppm	0.0 %	0.6 %	0.0 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.7641 %	-0.0356 ppm
Concentration per Run 1	100.797 %	-0.059 ppm
Concentration per Run 2	100.745 %	0.025 ppm
Concentration per Run 3	100.751 %	-0.072 ppm
Concentration RSD	0.0 %	149.1 %
Concentration SD	0.0 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	5 cps	1 cps	2 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-8 cps	9 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	3 cps	11 cps	3 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	0 cps	31 cps	91 cps	30 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2 cps	3 cps	5 cps	-20 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	-2 cps	-1 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	21 cps	0 cps	3 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	5 cps	-22 cps	88 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	6 cps	4,914 cps	7,369 cps	168,362 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,619 cps	-1 cps

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CCV 15I21330

Sample Type QC Analysis Date 10/16/2015 2:39:52 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0388 ppm	0.5066 ppm	0.5091 ppm	1.0192 ppm
Concentration per Run 1	2.035 ppm	0.507 ppm	0.509 ppm	1.019 ppm
Concentration per Run 2	2.041 ppm	0.507 ppm	0.509 ppm	1.023 ppm
Concentration per Run 3	2.040 ppm	0.506 ppm	0.510 ppm	1.016 ppm
Concentration RSD	0.2 %	0.0 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5029 ppm	2.0802 ppm	0.9750 ppm	2.0144 ppm
Concentration per Run 1	0.503 ppm	2.084 ppm	0.974 ppm	2.017 ppm
Concentration per Run 2	0.503 ppm	2.075 ppm	0.975 ppm	2.007 ppm
Concentration per Run 3	0.502 ppm	2.082 ppm	0.976 ppm	2.019 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0602 ppm	3.0495 ppm	10.2770 ppm	10.6434 ppm
Concentration per Run 1	2.061 ppm	3.048 ppm	10.222 ppm	10.671 ppm
Concentration per Run 2	2.060 ppm	3.050 ppm	10.345 ppm	10.660 ppm
Concentration per Run 3	2.060 ppm	3.051 ppm	10.263 ppm	10.598 ppm
Concentration RSD	0.0 %	0.1 %	0.6 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.9755 ppm	1.5085 ppm	49.6418 ppm	52.7575 ppm
Concentration per Run 1	10.834 ppm	1.508 ppm	49.760 ppm	52.945 ppm
Concentration per Run 2	10.976 ppm	1.503 ppm	49.671 ppm	52.636 ppm
Concentration per Run 3	11.117 ppm	1.515 ppm	49.494 ppm	52.692 ppm
Concentration RSD	1.3 %	0.4 %	0.3 %	0.3 %
Concentration SD	0.1 ppm	0.0 ppm	0.1 ppm	0.2 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.4203 ppm	51.1453 ppm	50.6013 ppm	52.8289 ppm
Concentration per Run 1	10.431 ppm	51.342 ppm	50.737 ppm	52.838 ppm
Concentration per Run 2	10.411 ppm	50.877 ppm	50.458 ppm	52.969 ppm
Concentration per Run 3	10.419 ppm	51.217 ppm	50.609 ppm	52.680 ppm
Concentration RSD	0.1 %	0.5 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.2 ppm	0.1 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0243 ppm	0.2084 ppm	1.0196 ppm	1.9323 ppm
Concentration per Run 1	2.025 ppm	0.209 ppm	1.021 ppm	1.933 ppm
Concentration per Run 2	2.020 ppm	0.209 ppm	1.019 ppm	1.936 ppm
Concentration per Run 3	2.028 ppm	0.208 ppm	1.019 ppm	1.928 ppm
Concentration RSD	0.2 %	0.2 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9904 ppm	1.0475 ppm	1.0251 ppm	0.5382 ppm
Concentration per Run 1	0.988 ppm	1.052 ppm	1.024 ppm	0.538 ppm
Concentration per Run 2	0.992 ppm	1.051 ppm	1.029 ppm	0.538 ppm
Concentration per Run 3	0.992 ppm	1.040 ppm	1.022 ppm	0.539 ppm
Concentration RSD	0.2 %	0.6 %	0.3 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	2.1016 ppm	0.9822 ppm	1.9503 ppm	1.9344 ppm
Concentration per Run 1	2.099 ppm	0.985 ppm	1.947 ppm	1.936 ppm
Concentration per Run 2	2.117 ppm	0.979 ppm	1.949 ppm	1.935 ppm
Concentration per Run 3	2.089 ppm	0.983 ppm	1.955 ppm	1.932 ppm
Concentration RSD	0.7 %	0.3 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7815 ppm	88.1970 %	96.4323 %	94.4688 %
Concentration per Run 1	4.789 ppm	88.163 %	95.624 %	94.287 %
Concentration per Run 2	4.769 ppm	88.196 %	96.520 %	94.584 %
Concentration per Run 3	4.787 ppm	88.232 %	97.153 %	94.535 %
Concentration RSD	0.2 %	0.0 %	0.8 %	0.2 %
Concentration SD	0.0 ppm	0.0 %	0.8 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	95.4803 %	0.0821 ppm
Concentration per Run 1	95.493 %	0.082 ppm
Concentration per Run 2	95.534 %	0.116 ppm
Concentration per Run 3	95.414 %	0.049 ppm
Concentration RSD	0.1 %	40.6 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	824 cps	3,626 cps	4,291 cps	8,822 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	376 cps	592 cps	8,584 cps	1,163 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,984 cps	16,543 cps	642 cps	5,196 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	270 cps	14,384 cps	24,118 cps	13,584 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	491 cps	28,932 cps	72,302 cps	5,089 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,050 cps	2,969 cps	5,359 cps	1,172 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,934 cps	437 cps	1,554 cps	1,019 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	568 cps	24,891 cps	4,670 cps	2,644 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,446 cps	4,291 cps	7,331 cps	157,987 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,695 cps	20 cps

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Sample Type QC Analysis Date 10/16/2015 2:42:36 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0025 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.003 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.003 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	29.4 %	5,024.9 %	72.2 %	976.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0004 ppm	0.0032 ppm	-0.0003 ppm	-0.0022 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	-0.001 ppm	-0.001 ppm
Concentration per Run 2	0.001 ppm	0.004 ppm	0.000 ppm	-0.006 ppm
Concentration per Run 3	0.000 ppm	0.006 ppm	0.000 ppm	0.001 ppm
Concentration RSD	57.4 %	90.8 %	181.1 %	164.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm	-0.0138 ppm	0.0040 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.001 ppm	0.003 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.046 ppm	0.006 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.003 ppm	0.003 ppm
Concentration RSD	1,918.2 %	2,328.7 %	201.1 %	37.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.1030 ppm	0.0016 ppm	0.0136 ppm	0.0137 ppm
Concentration per Run 1	0.140 ppm	0.001 ppm	0.015 ppm	-0.004 ppm
Concentration per Run 2	0.078 ppm	0.001 ppm	0.014 ppm	0.031 ppm
Concentration per Run 3	0.091 ppm	0.002 ppm	0.011 ppm	0.014 ppm
Concentration RSD	31.8 %	32.2 %	15.1 %	129.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0281 ppm	0.0171 ppm	0.0588 ppm	-0.0073 ppm
Concentration per Run 1	-0.032 ppm	0.023 ppm	0.059 ppm	-0.034 ppm
Concentration per Run 2	-0.026 ppm	0.042 ppm	0.057 ppm	0.171 ppm
Concentration per Run 3	-0.026 ppm	-0.013 ppm	0.060 ppm	-0.159 ppm
Concentration RSD	11.9 %	163.7 %	2.4 %	2,272.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0067 ppm	0.0001 ppm	-0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.004 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.007 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.009 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	34.9 %	68.6 %	111.0 %	576.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0001 ppm	-0.0040 ppm	-0.0004 ppm	0.0003 ppm
Concentration per Run 1	0.000 ppm	-0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.007 ppm	0.001 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	-0.004 ppm	-0.002 ppm	0.000 ppm
Concentration RSD	94.3 %	74.8 %	335.1 %	112.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0144 ppm	0.0002 ppm	0.0020 ppm	0.0002 ppm
Concentration per Run 1	0.015 ppm	0.000 ppm	0.004 ppm	0.000 ppm
Concentration per Run 2	0.019 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.009 ppm	0.000 ppm	0.002 ppm	0.000 ppm
Concentration RSD	34.3 %	94.7 %	115.8 %	223.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0296 ppm	100.9614 %	96.1872 %	100.3762 %
Concentration per Run 1	0.032 ppm	100.889 %	96.227 %	100.500 %
Concentration per Run 2	0.027 ppm	101.035 %	95.235 %	100.616 %
Concentration per Run 3	0.030 ppm	100.961 %	97.100 %	100.012 %
Concentration RSD	7.5 %	0.1 %	1.0 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	0.9 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.5405 %	-0.0177 ppm
Concentration per Run 1	100.674 %	0.036 ppm
Concentration per Run 2	100.477 %	-0.046 ppm
Concentration per Run 3	100.471 %	-0.044 ppm
Concentration RSD	0.1 %	265.2 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	5 cps	2 cps	1 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	1 cps	-14 cps	10 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-4 cps	2 cps	13 cps	1 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2 cps	43 cps	90 cps	31 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	3 cps	34 cps	-32 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	5 cps	-2 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	22 cps	-1 cps	3 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	4 cps	-22 cps	53 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	8 cps	4,913 cps	7,313 cps	167,866 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,580 cps	2 cps

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Sample Type QC Analysis Date 10/16/2015 3:17:10 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0459 ppm	0.5062 ppm	0.5091 ppm	1.0172 ppm
Concentration per Run 1	2.047 ppm	0.506 ppm	0.509 ppm	1.016 ppm
Concentration per Run 2	2.052 ppm	0.507 ppm	0.510 ppm	1.020 ppm
Concentration per Run 3	2.038 ppm	0.506 ppm	0.509 ppm	1.015 ppm
Concentration RSD	0.4 %	0.1 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5034 ppm	2.0802 ppm	0.9756 ppm	1.9986 ppm
Concentration per Run 1	0.504 ppm	2.090 ppm	0.974 ppm	1.945 ppm
Concentration per Run 2	0.503 ppm	2.077 ppm	0.976 ppm	2.024 ppm
Concentration per Run 3	0.504 ppm	2.074 ppm	0.977 ppm	2.026 ppm
Concentration RSD	0.1 %	0.4 %	0.1 %	2.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0585 ppm	3.0552 ppm	10.2440 ppm	10.5948 ppm
Concentration per Run 1	2.056 ppm	3.059 ppm	10.071 ppm	10.318 ppm
Concentration per Run 2	2.062 ppm	3.055 ppm	10.254 ppm	10.738 ppm
Concentration per Run 3	2.057 ppm	3.051 ppm	10.406 ppm	10.729 ppm
Concentration RSD	0.2 %	0.1 %	1.6 %	2.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.2 ppm	0.2 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	11.0116 ppm	1.5044 ppm	49.1752 ppm	52.1859 ppm
Concentration per Run 1	10.849 ppm	1.474 ppm	48.055 ppm	50.945 ppm
Concentration per Run 2	11.055 ppm	1.517 ppm	49.656 ppm	52.712 ppm
Concentration per Run 3	11.131 ppm	1.522 ppm	49.815 ppm	52.900 ppm
Concentration RSD	1.3 %	1.8 %	2.0 %	2.1 %
Concentration SD	0.1 ppm	0.0 ppm	1.0 ppm	1.1 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.3861 ppm	51.3878 ppm	50.0873 ppm	52.4580 ppm
Concentration per Run 1	10.120 ppm	50.445 ppm	49.062 ppm	51.347 ppm
Concentration per Run 2	10.421 ppm	51.789 ppm	50.581 ppm	52.974 ppm
Concentration per Run 3	10.617 ppm	51.929 ppm	50.619 ppm	53.053 ppm
Concentration RSD	2.4 %	1.6 %	1.8 %	1.8 %
Concentration SD	0.3 ppm	0.8 ppm	0.9 ppm	1.0 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0253 ppm	0.2059 ppm	1.0197 ppm	1.9393 ppm
Concentration per Run 1	2.028 ppm	0.201 ppm	1.020 ppm	1.944 ppm
Concentration per Run 2	2.021 ppm	0.208 ppm	1.021 ppm	1.939 ppm
Concentration per Run 3	2.026 ppm	0.209 ppm	1.019 ppm	1.935 ppm
Concentration RSD	0.2 %	2.1 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9921 ppm	1.0419 ppm	1.0162 ppm	0.5353 ppm
Concentration per Run 1	0.992 ppm	1.027 ppm	0.993 ppm	0.534 ppm
Concentration per Run 2	0.993 ppm	1.049 ppm	1.024 ppm	0.536 ppm
Concentration per Run 3	0.991 ppm	1.049 ppm	1.031 ppm	0.536 ppm
Concentration RSD	0.1 %	1.2 %	2.0 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	2.1143 ppm	0.9673 ppm	1.9602 ppm	1.9412 ppm
Concentration per Run 1	2.037 ppm	0.948 ppm	1.956 ppm	1.942 ppm
Concentration per Run 2	2.154 ppm	0.974 ppm	1.966 ppm	1.940 ppm
Concentration per Run 3	2.152 ppm	0.979 ppm	1.959 ppm	1.941 ppm
Concentration RSD	3.2 %	1.7 %	0.3 %	0.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7744 ppm	88.2742 %	96.2095 %	94.2592 %
Concentration per Run 1	4.773 ppm	88.140 %	97.774 %	94.152 %
Concentration per Run 2	4.778 ppm	88.140 %	95.269 %	94.187 %
Concentration per Run 3	4.772 ppm	88.543 %	95.585 %	94.438 %
Concentration RSD	0.1 %	0.3 %	1.4 %	0.2 %
Concentration SD	0.0 ppm	0.2 %	1.4 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	95.5535 %	0.0816 ppm
Concentration per Run 1	95.447 %	0.098 ppm
Concentration per Run 2	95.502 %	0.050 ppm
Concentration per Run 3	95.712 %	0.097 ppm
Concentration RSD	0.1 %	33.5 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	827 cps	3,626 cps	4,294 cps	8,785 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	376 cps	592 cps	8,569 cps	1,151 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,985 cps	16,587 cps	638 cps	5,159 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	270 cps	14,309 cps	23,833 cps	13,404 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	488 cps	28,998 cps	71,390 cps	5,040 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,051 cps	2,927 cps	5,364 cps	1,177 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,912 cps	434 cps	1,537 cps	1,014 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	570 cps	24,454 cps	4,683 cps	2,655 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,445 cps	4,295 cps	7,314 cps	157,636 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,708 cps	20 cps

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QTEGRA

CCB

Sample Type QC Analysis Date 10/16/2015 3:19:56 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0006 ppm	0.0000 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	0.002 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	226.0 %	43.4 %	8,411.4 %	614.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0004 ppm	0.0032 ppm	-0.0005 ppm	0.0008 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.007 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 3	0.001 ppm	0.002 ppm	-0.001 ppm	0.003 ppm
Concentration RSD	108.5 %	100.8 %	26.2 %	270.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0004 ppm	0.0000 ppm	0.0183 ppm	0.0027 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.029 ppm	0.005 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.042 ppm	0.004 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	-0.016 ppm	0.000 ppm
Concentration RSD	42.8 %	29.3 %	164.6 %	100.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.1059 ppm	-0.0006 ppm	0.0201 ppm	0.0157 ppm
Concentration per Run 1	0.138 ppm	-0.001 ppm	0.021 ppm	0.020 ppm
Concentration per Run 2	0.025 ppm	0.001 ppm	0.015 ppm	0.013 ppm
Concentration per Run 3	0.155 ppm	-0.002 ppm	0.024 ppm	0.014 ppm
Concentration RSD	67.0 %	259.9 %	24.2 %	25.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0349 ppm	-0.0529 ppm	0.0636 ppm	-0.1545 ppm
Concentration per Run 1	-0.059 ppm	-0.029 ppm	0.069 ppm	-0.404 ppm
Concentration per Run 2	0.024 ppm	-0.080 ppm	0.072 ppm	0.075 ppm
Concentration per Run 3	-0.069 ppm	-0.050 ppm	0.049 ppm	-0.134 ppm
Concentration RSD	147.0 %	49.1 %	19.8 %	155.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0066 ppm	0.0001 ppm	-0.0003 ppm	0.0001 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.006 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.009 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	26.8 %	46.6 %	71.0 %	1,057.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0002 ppm	-0.0044 ppm	-0.0010 ppm	0.0003 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.010 ppm	-0.002 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	-0.003 ppm	-0.001 ppm	0.001 ppm
Concentration RSD	43.0 %	120.7 %	48.5 %	53.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0042 ppm	0.0001 ppm	0.0014 ppm	0.0001 ppm
Concentration per Run 1	0.011 ppm	0.000 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	-0.009 ppm	0.000 ppm	0.002 ppm	0.000 ppm
Concentration per Run 3	0.011 ppm	0.000 ppm	0.001 ppm	0.000 ppm
Concentration RSD	281.0 %	74.7 %	44.4 %	404.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0301 ppm	101.1833 %	96.1147 %	100.7167 %
Concentration per Run 1	0.029 ppm	101.186 %	95.745 %	100.403 %
Concentration per Run 2	0.031 ppm	101.137 %	95.780 %	100.787 %
Concentration per Run 3	0.030 ppm	101.227 %	96.819 %	100.960 %
Concentration RSD	2.2 %	0.0 %	0.6 %	0.3 %
Concentration SD	0.0 ppm	0.0 %	0.6 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.5470 %	-0.0402 ppm
Concentration per Run 1	100.558 %	-0.052 ppm
Concentration per Run 2	100.512 %	0.013 ppm
Concentration per Run 3	100.571 %	-0.082 ppm
Concentration RSD	0.0 %	121.4 %
Concentration SD	0.0 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	4 cps	1 cps	0 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-16 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	2 cps	15 cps	1 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2 cps	22 cps	93 cps	32 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	-36 cps	41 cps	-46 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	5 cps	-2 cps	-3 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	25 cps	-1 cps	2 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-25 cps	51 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	8 cps	4,923 cps	7,307 cps	168,436 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,581 cps	-2 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0453 ppm	0.5057 ppm	0.5080 ppm	1.0235 ppm
Concentration per Run 1	2.048 ppm	0.507 ppm	0.508 ppm	1.027 ppm
Concentration per Run 2	2.045 ppm	0.506 ppm	0.508 ppm	1.022 ppm
Concentration per Run 3	2.042 ppm	0.504 ppm	0.508 ppm	1.022 ppm
Concentration RSD	0.2 %	0.2 %	0.0 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5039 ppm	2.0757 ppm	0.9764 ppm	2.0303 ppm
Concentration per Run 1	0.503 ppm	2.075 ppm	0.977 ppm	2.041 ppm
Concentration per Run 2	0.504 ppm	2.082 ppm	0.975 ppm	2.019 ppm
Concentration per Run 3	0.505 ppm	2.070 ppm	0.977 ppm	2.031 ppm
Concentration RSD	0.2 %	0.3 %	0.1 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0612 ppm	3.0496 ppm	10.4738 ppm	10.8488 ppm
Concentration per Run 1	2.060 ppm	3.046 ppm	10.403 ppm	10.842 ppm
Concentration per Run 2	2.064 ppm	3.049 ppm	10.567 ppm	10.812 ppm
Concentration per Run 3	2.060 ppm	3.053 ppm	10.452 ppm	10.893 ppm
Concentration RSD	0.1 %	0.1 %	0.8 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	11.2363 ppm	1.5005 ppm	49.9248 ppm	52.4912 ppm
Concentration per Run 1	11.181 ppm	1.500 ppm	49.744 ppm	52.338 ppm
Concentration per Run 2	11.355 ppm	1.502 ppm	49.975 ppm	52.429 ppm
Concentration per Run 3	11.174 ppm	1.500 ppm	50.055 ppm	52.707 ppm
Concentration RSD	0.9 %	0.1 %	0.3 %	0.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.2 ppm	0.2 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.6777 ppm	51.1031 ppm	50.3095 ppm	53.4765 ppm
Concentration per Run 1	10.642 ppm	51.022 ppm	50.206 ppm	53.312 ppm
Concentration per Run 2	10.712 ppm	51.120 ppm	50.252 ppm	53.517 ppm
Concentration per Run 3	10.679 ppm	51.167 ppm	50.471 ppm	53.601 ppm
Concentration RSD	0.3 %	0.1 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.1 ppm	0.1 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0160 ppm	0.2105 ppm	1.0218 ppm	1.9368 ppm
Concentration per Run 1	2.020 ppm	0.210 ppm	1.024 ppm	1.942 ppm
Concentration per Run 2	2.019 ppm	0.210 ppm	1.021 ppm	1.934 ppm
Concentration per Run 3	2.009 ppm	0.211 ppm	1.020 ppm	1.935 ppm
Concentration RSD	0.3 %	0.2 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9918 ppm	1.0636 ppm	1.0350 ppm	0.5372 ppm
Concentration per Run 1	0.993 ppm	1.057 ppm	1.037 ppm	0.538 ppm
Concentration per Run 2	0.990 ppm	1.073 ppm	1.035 ppm	0.537 ppm
Concentration per Run 3	0.992 ppm	1.061 ppm	1.032 ppm	0.537 ppm
Concentration RSD	0.2 %	0.8 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	2.1388 ppm	0.9666 ppm	1.9518 ppm	1.9362 ppm
Concentration per Run 1	2.130 ppm	0.967 ppm	1.955 ppm	1.938 ppm
Concentration per Run 2	2.152 ppm	0.963 ppm	1.950 ppm	1.935 ppm
Concentration per Run 3	2.134 ppm	0.970 ppm	1.951 ppm	1.936 ppm
Concentration RSD	0.6 %	0.3 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7510 ppm	88.3248 %	95.8197 %	94.5831 %
Concentration per Run 1	4.748 ppm	88.090 %	96.684 %	94.400 %
Concentration per Run 2	4.759 ppm	88.548 %	95.501 %	94.735 %
Concentration per Run 3	4.746 ppm	88.337 %	95.274 %	94.614 %
Concentration RSD	0.1 %	0.3 %	0.8 %	0.2 %
Concentration SD	0.0 ppm	0.2 %	0.8 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	95.8301 %	0.0462 ppm
Concentration per Run 1	95.706 %	0.003 ppm
Concentration per Run 2	96.023 %	0.017 ppm
Concentration per Run 3	95.761 %	0.118 ppm
Concentration RSD	0.2 %	135.9 %
Concentration SD	0.2 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	830 cps	3,633 cps	4,297 cps	8,870 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	377 cps	593 cps	8,606 cps	1,164 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,992 cps	16,605 cps	650 cps	5,262 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	274 cps	14,217 cps	24,101 cps	13,430 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	500 cps	28,724 cps	71,428 cps	5,119 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,050 cps	2,981 cps	5,378 cps	1,176 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	41,041 cps	441 cps	1,559 cps	1,021 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	574 cps	24,341 cps	4,679 cps	2,656 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,442 cps	4,298 cps	7,285 cps	158,178 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,756 cps	13 cps

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Sample Type QC Analysis Date 10/16/2015 3:55:36 AM

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0011 ppm	0.0000 ppm	0.0001 ppm	0.0001 ppm
Concentration per Run 1	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	145.3 %	658.9 %	177.2 %	326.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0010 ppm	0.0038 ppm	-0.0009 ppm	-0.0009 ppm
Concentration per Run 1	0.001 ppm	-0.002 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.006 ppm	0.000 ppm	-0.006 ppm
Concentration per Run 3	0.002 ppm	0.007 ppm	-0.002 ppm	0.003 ppm
Concentration RSD	112.8 %	123.7 %	99.1 %	500.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0077 ppm	0.0119 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.004 ppm	0.011 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.032 ppm	0.019 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.052 ppm	0.006 ppm
Concentration RSD	6,047.3 %	53.6 %	548.0 %	55.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0911 ppm	0.0003 ppm	0.0090 ppm	-0.0001 ppm
Concentration per Run 1	0.091 ppm	0.001 ppm	0.014 ppm	-0.005 ppm
Concentration per Run 2	0.033 ppm	0.001 ppm	0.005 ppm	-0.001 ppm
Concentration per Run 3	0.148 ppm	-0.001 ppm	0.008 ppm	0.006 ppm
Concentration RSD	63.3 %	344.5 %	48.2 %	6,248.6 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0151 ppm	0.0280 ppm	0.0142 ppm	0.0057 ppm
Concentration per Run 1	0.012 ppm	0.015 ppm	0.009 ppm	0.240 ppm
Concentration per Run 2	-0.038 ppm	0.044 ppm	0.017 ppm	0.050 ppm
Concentration per Run 3	-0.019 ppm	0.026 ppm	0.017 ppm	-0.273 ppm
Concentration RSD	168.5 %	52.6 %	30.9 %	4,542.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.3 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0056 ppm	0.0002 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.005 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.007 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	18.1 %	85.1 %	584.2 %	182.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0004 ppm	-0.0034 ppm	0.0006 ppm	0.0005 ppm
Concentration per Run 1	0.000 ppm	-0.006 ppm	0.003 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.003 ppm	-0.003 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	-0.001 ppm	0.002 ppm	0.000 ppm
Concentration RSD	7.8 %	66.1 %	538.4 %	78.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0054 ppm	0.0001 ppm	0.0015 ppm	0.0005 ppm
Concentration per Run 1	0.008 ppm	0.000 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 2	0.003 ppm	0.000 ppm	0.003 ppm	0.001 ppm
Concentration per Run 3	0.005 ppm	0.000 ppm	0.003 ppm	0.000 ppm
Concentration RSD	48.4 %	64.9 %	137.1 %	21.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0141 ppm	101.3572 %	96.0112 %	100.8274 %
Concentration per Run 1	0.014 ppm	101.198 %	96.339 %	101.164 %
Concentration per Run 2	0.013 ppm	101.356 %	96.614 %	100.660 %
Concentration per Run 3	0.015 ppm	101.518 %	95.081 %	100.658 %
Concentration RSD	9.6 %	0.2 %	0.9 %	0.3 %
Concentration SD	0.0 ppm	0.2 %	0.8 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.9414 %	-0.0149 ppm
Concentration per Run 1	100.883 %	0.010 ppm
Concentration per Run 2	100.847 %	-0.004 ppm
Concentration per Run 3	101.095 %	-0.051 ppm
Concentration RSD	0.1 %	216.0 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	5 cps	2 cps	2 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	1 cps	-20 cps	11 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-4 cps	3 cps	14 cps	5 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2 cps	30 cps	88 cps	27 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	9 cps	-29 cps	-31 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	-2 cps	-1 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	37 cps	-1 cps	4 cps	5 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-24 cps	52 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	3 cps	4,932 cps	7,299 cps	168,621 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,650 cps	2 cps

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QTEGRA

CCV 15I21330

Sample Type QC Analysis Date 10/16/2015 4:29:52 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0357 ppm	0.5081 ppm	0.5093 ppm	1.0206 ppm
Concentration per Run 1	2.041 ppm	0.508 ppm	0.510 ppm	1.021 ppm
Concentration per Run 2	2.032 ppm	0.508 ppm	0.509 ppm	1.020 ppm
Concentration per Run 3	2.033 ppm	0.507 ppm	0.509 ppm	1.021 ppm
Concentration RSD	0.2 %	0.1 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5034 ppm	2.0711 ppm	0.9753 ppm	2.0213 ppm
Concentration per Run 1	0.503 ppm	2.069 ppm	0.974 ppm	2.021 ppm
Concentration per Run 2	0.506 ppm	2.073 ppm	0.975 ppm	2.022 ppm
Concentration per Run 3	0.502 ppm	2.072 ppm	0.977 ppm	2.020 ppm
Concentration RSD	0.5 %	0.1 %	0.2 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0572 ppm	3.0537 ppm	10.4326 ppm	10.9176 ppm
Concentration per Run 1	2.057 ppm	3.051 ppm	10.485 ppm	10.901 ppm
Concentration per Run 2	2.057 ppm	3.057 ppm	10.427 ppm	10.937 ppm
Concentration per Run 3	2.057 ppm	3.053 ppm	10.386 ppm	10.915 ppm
Concentration RSD	0.0 %	0.1 %	0.5 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	11.2342 ppm	1.5102 ppm	49.7751 ppm	52.2638 ppm
Concentration per Run 1	11.186 ppm	1.513 ppm	49.897 ppm	52.356 ppm
Concentration per Run 2	11.284 ppm	1.509 ppm	49.707 ppm	52.136 ppm
Concentration per Run 3	11.232 ppm	1.509 ppm	49.722 ppm	52.300 ppm
Concentration RSD	0.4 %	0.2 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.6298 ppm	51.1458 ppm	50.2326 ppm	53.5663 ppm
Concentration per Run 1	10.597 ppm	51.473 ppm	50.478 ppm	53.627 ppm
Concentration per Run 2	10.688 ppm	50.945 ppm	50.057 ppm	53.432 ppm
Concentration per Run 3	10.604 ppm	51.019 ppm	50.163 ppm	53.639 ppm
Concentration RSD	0.5 %	0.6 %	0.4 %	0.2 %
Concentration SD	0.1 ppm	0.3 ppm	0.2 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0192 ppm	0.2112 ppm	1.0180 ppm	1.9122 ppm
Concentration per Run 1	2.026 ppm	0.210 ppm	1.018 ppm	1.916 ppm
Concentration per Run 2	2.022 ppm	0.211 ppm	1.019 ppm	1.912 ppm
Concentration per Run 3	2.009 ppm	0.212 ppm	1.017 ppm	1.908 ppm
Concentration RSD	0.4 %	0.3 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9939 ppm	1.0758 ppm	1.0174 ppm	0.5518 ppm
Concentration per Run 1	0.995 ppm	1.067 ppm	1.018 ppm	0.550 ppm
Concentration per Run 2	0.993 ppm	1.074 ppm	1.019 ppm	0.553 ppm
Concentration per Run 3	0.993 ppm	1.086 ppm	1.015 ppm	0.553 ppm
Concentration RSD	0.1 %	0.9 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	2.1519 ppm	0.9554 ppm	1.9528 ppm	1.9236 ppm
Concentration per Run 1	2.130 ppm	0.958 ppm	1.953 ppm	1.924 ppm
Concentration per Run 2	2.160 ppm	0.955 ppm	1.956 ppm	1.928 ppm
Concentration per Run 3	2.166 ppm	0.954 ppm	1.949 ppm	1.919 ppm
Concentration RSD	0.9 %	0.2 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7372 ppm	88.5379 %	94.3648 %	94.7637 %
Concentration per Run 1	4.745 ppm	88.572 %	93.748 %	94.591 %
Concentration per Run 2	4.743 ppm	88.357 %	94.820 %	94.780 %
Concentration per Run 3	4.724 ppm	88.685 %	94.527 %	94.920 %
Concentration RSD	0.2 %	0.2 %	0.6 %	0.2 %
Concentration SD	0.0 ppm	0.2 %	0.6 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	95.6511 %	0.0404 ppm
Concentration per Run 1	95.655 %	0.011 ppm
Concentration per Run 2	95.534 %	0.024 ppm
Concentration per Run 3	95.764 %	0.086 ppm
Concentration RSD	0.1 %	99.2 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	824 cps	3,644 cps	4,300 cps	8,861 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	377 cps	590 cps	8,613 cps	1,141 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,994 cps	16,596 cps	637 cps	5,215 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	270 cps	14,091 cps	23,664 cps	13,169 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	490 cps	28,311 cps	70,235 cps	5,050 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,049 cps	2,945 cps	5,371 cps	1,164 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	41,209 cps	439 cps	1,510 cps	1,046 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	569 cps	23,692 cps	4,690 cps	2,634 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,435 cps	4,308 cps	7,174 cps	158,480 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,725 cps	12 cps

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Sample Type QC Analysis Date 10/16/2015 4:32:38 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0033 ppm	0.0000 ppm	0.0000 ppm	0.0004 ppm
Concentration per Run 1	0.003 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.003 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.004 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	27.0 %	355.5 %	857.2 %	30.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0003 ppm	0.0015 ppm	-0.0007 ppm	0.0014 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	-0.001 ppm	0.002 ppm
Concentration per Run 2	0.001 ppm	0.004 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	-0.001 ppm	-0.001 ppm	0.001 ppm
Concentration RSD	92.1 %	149.4 %	70.5 %	21.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0004 ppm	0.0001 ppm	0.0316 ppm	0.0123 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.093 ppm	0.015 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.029 ppm	0.008 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.031 ppm	0.014 ppm
Concentration RSD	75.8 %	70.8 %	191.8 %	30.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0335 ppm	0.0010 ppm	0.0137 ppm	0.0041 ppm
Concentration per Run 1	0.096 ppm	0.003 ppm	0.013 ppm	-0.009 ppm
Concentration per Run 2	-0.030 ppm	0.000 ppm	0.012 ppm	0.009 ppm
Concentration per Run 3	0.035 ppm	0.000 ppm	0.015 ppm	0.013 ppm
Concentration RSD	187.6 %	160.7 %	11.3 %	281.2 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0236 ppm	-0.0038 ppm	0.0188 ppm	-0.1885 ppm
Concentration per Run 1	-0.021 ppm	-0.016 ppm	0.003 ppm	-0.242 ppm
Concentration per Run 2	-0.094 ppm	0.027 ppm	0.031 ppm	-0.125 ppm
Concentration per Run 3	0.044 ppm	-0.022 ppm	0.023 ppm	-0.199 ppm
Concentration RSD	292.5 %	695.4 %	76.8 %	31.3 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0055 ppm	0.0001 ppm	-0.0003 ppm	0.0014 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.005 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.006 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration RSD	15.6 %	94.8 %	48.3 %	20.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0005 ppm	-0.0008 ppm	-0.0010 ppm	0.0002 ppm
Concentration per Run 1	0.000 ppm	0.002 ppm	0.002 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.003 ppm	-0.004 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	-0.001 ppm	-0.002 ppm	0.000 ppm
Concentration RSD	21.3 %	333.7 %	298.0 %	134.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0079 ppm	0.0001 ppm	0.0020 ppm	0.0000 ppm
Concentration per Run 1	0.018 ppm	0.000 ppm	0.003 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.002 ppm	-0.001 ppm
Concentration per Run 3	0.006 ppm	0.000 ppm	0.001 ppm	0.001 ppm
Concentration RSD	112.0 %	7.6 %	40.7 %	1,810.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0090 ppm	101.2995 %	95.3356 %	100.5428 %
Concentration per Run 1	0.010 ppm	101.223 %	94.528 %	100.470 %
Concentration per Run 2	0.010 ppm	101.356 %	96.039 %	100.807 %
Concentration per Run 3	0.007 ppm	101.320 %	95.440 %	100.352 %
Concentration RSD	16.4 %	0.1 %	0.8 %	0.2 %
Concentration SD	0.0 ppm	0.1 %	0.8 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.6153 %	0.0240 ppm
Concentration per Run 1	100.600 %	0.033 ppm
Concentration per Run 2	100.640 %	0.067 ppm
Concentration per Run 3	100.606 %	-0.028 ppm
Concentration RSD	0.0 %	201.4 %
Concentration SD	0.0 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	4 cps	1 cps	4 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-17 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	2 cps	15 cps	5 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	36 cps	89 cps	28 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	-8 cps	-22 cps	-49 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	-4 cps	-3 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	37 cps	0 cps	2 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-23 cps	53 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1 cps	4,929 cps	7,248 cps	168,145 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,593 cps	9 cps

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CCV 15I21330

Sample Type QC Analysis Date 10/16/2015 5:06:25 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0360 ppm	0.5055 ppm	0.5075 ppm	1.0204 ppm
Concentration per Run 1	2.036 ppm	0.506 ppm	0.507 ppm	1.024 ppm
Concentration per Run 2	2.034 ppm	0.505 ppm	0.507 ppm	1.019 ppm
Concentration per Run 3	2.038 ppm	0.506 ppm	0.508 ppm	1.018 ppm
Concentration RSD	0.1 %	0.1 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5041 ppm	2.0736 ppm	0.9728 ppm	2.0447 ppm
Concentration per Run 1	0.505 ppm	2.084 ppm	0.973 ppm	2.043 ppm
Concentration per Run 2	0.501 ppm	2.063 ppm	0.974 ppm	2.048 ppm
Concentration per Run 3	0.506 ppm	2.074 ppm	0.971 ppm	2.043 ppm
Concentration RSD	0.5 %	0.5 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0617 ppm	3.0566 ppm	10.6009 ppm	10.9753 ppm
Concentration per Run 1	2.059 ppm	3.058 ppm	10.656 ppm	10.962 ppm
Concentration per Run 2	2.065 ppm	3.058 ppm	10.573 ppm	10.981 ppm
Concentration per Run 3	2.061 ppm	3.054 ppm	10.573 ppm	10.984 ppm
Concentration RSD	0.1 %	0.1 %	0.5 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	11.4332 ppm	1.4916 ppm	50.6164 ppm	52.3576 ppm
Concentration per Run 1	11.542 ppm	1.495 ppm	50.667 ppm	52.354 ppm
Concentration per Run 2	11.320 ppm	1.485 ppm	50.469 ppm	52.197 ppm
Concentration per Run 3	11.438 ppm	1.495 ppm	50.713 ppm	52.522 ppm
Concentration RSD	1.0 %	0.4 %	0.3 %	0.3 %
Concentration SD	0.1 ppm	0.0 ppm	0.1 ppm	0.2 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.7869 ppm	51.0917 ppm	49.6034 ppm	53.1037 ppm
Concentration per Run 1	10.812 ppm	51.208 ppm	49.686 ppm	53.029 ppm
Concentration per Run 2	10.838 ppm	50.912 ppm	49.432 ppm	53.287 ppm
Concentration per Run 3	10.711 ppm	51.155 ppm	49.692 ppm	52.995 ppm
Concentration RSD	0.6 %	0.3 %	0.3 %	0.3 %
Concentration SD	0.1 ppm	0.2 ppm	0.1 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0116 ppm	0.2134 ppm	1.0194 ppm	1.9291 ppm
Concentration per Run 1	2.013 ppm	0.214 ppm	1.020 ppm	1.930 ppm
Concentration per Run 2	2.012 ppm	0.213 ppm	1.020 ppm	1.925 ppm
Concentration per Run 3	2.009 ppm	0.213 ppm	1.018 ppm	1.933 ppm
Concentration RSD	0.1 %	0.3 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9901 ppm	1.0784 ppm	1.0359 ppm	0.5408 ppm
Concentration per Run 1	0.993 ppm	1.073 ppm	1.034 ppm	0.538 ppm
Concentration per Run 2	0.988 ppm	1.076 ppm	1.040 ppm	0.545 ppm
Concentration per Run 3	0.990 ppm	1.086 ppm	1.034 ppm	0.539 ppm
Concentration RSD	0.2 %	0.6 %	0.3 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	2.1621 ppm	0.9488 ppm	1.9465 ppm	1.9314 ppm
Concentration per Run 1	2.138 ppm	0.951 ppm	1.949 ppm	1.933 ppm
Concentration per Run 2	2.171 ppm	0.944 ppm	1.945 ppm	1.931 ppm
Concentration per Run 3	2.177 ppm	0.951 ppm	1.946 ppm	1.930 ppm
Concentration RSD	1.0 %	0.4 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7422 ppm	88.5230 %	95.0168 %	94.7399 %
Concentration per Run 1	4.735 ppm	88.680 %	94.951 %	94.462 %
Concentration per Run 2	4.746 ppm	88.454 %	95.342 %	95.069 %
Concentration per Run 3	4.746 ppm	88.434 %	94.758 %	94.689 %
Concentration RSD	0.1 %	0.2 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	0.3 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	95.9056 %	0.0610 ppm
Concentration per Run 1	96.004 %	0.069 ppm
Concentration per Run 2	95.940 %	0.005 ppm
Concentration per Run 3	95.772 %	0.109 ppm
Concentration RSD	0.1 %	86.4 %
Concentration SD	0.1 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	827 cps	3,634 cps	4,296 cps	8,857 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	378 cps	593 cps	8,589 cps	1,163 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	4,002 cps	16,656 cps	652 cps	5,279 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	277 cps	14,015 cps	24,229 cps	13,284 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	501 cps	28,477 cps	69,835 cps	5,040 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,048 cps	2,995 cps	5,378 cps	1,174 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	41,039 cps	444 cps	1,548 cps	1,028 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	576 cps	23,692 cps	4,674 cps	2,651 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,440 cps	4,307 cps	7,224 cps	158,440 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,769 cps	16 cps

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Sample Type QC Analysis Date 10/16/2015 5:09:10 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0018 ppm	0.0003 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.003 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	76.1 %	19.9 %	947.1 %	174.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	-0.0005 ppm	0.0020 ppm	-0.0005 ppm	-0.0013 ppm
Concentration per Run 1	0.000 ppm	0.003 ppm	-0.001 ppm	-0.001 ppm
Concentration per Run 2	0.000 ppm	0.003 ppm	-0.001 ppm	0.004 ppm
Concentration per Run 3	-0.001 ppm	0.000 ppm	0.001 ppm	-0.007 ppm
Concentration RSD	164.4 %	77.1 %	197.9 %	389.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0004 ppm	0.0034 ppm	-0.0400 ppm	0.0192 ppm
Concentration per Run 1	0.001 ppm	0.003 ppm	-0.053 ppm	0.012 ppm
Concentration per Run 2	0.000 ppm	0.003 ppm	-0.039 ppm	0.022 ppm
Concentration per Run 3	0.000 ppm	0.004 ppm	-0.028 ppm	0.024 ppm
Concentration RSD	63.0 %	3.3 %	31.8 %	34.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0100 ppm	-0.0002 ppm	0.0217 ppm	0.0043 ppm
Concentration per Run 1	-0.012 ppm	-0.001 ppm	0.032 ppm	0.009 ppm
Concentration per Run 2	0.034 ppm	0.000 ppm	0.015 ppm	-0.004 ppm
Concentration per Run 3	0.008 ppm	0.000 ppm	0.018 ppm	0.007 ppm
Concentration RSD	226.9 %	412.8 %	40.3 %	171.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0341 ppm	-0.0138 ppm	0.0112 ppm	-0.1797 ppm
Concentration per Run 1	-0.053 ppm	0.003 ppm	0.021 ppm	-0.175 ppm
Concentration per Run 2	-0.060 ppm	-0.018 ppm	0.010 ppm	-0.238 ppm
Concentration per Run 3	0.011 ppm	-0.026 ppm	0.002 ppm	-0.125 ppm
Concentration RSD	115.5 %	106.1 %	84.8 %	31.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0065 ppm	0.0001 ppm	-0.0001 ppm	0.0012 ppm
Concentration per Run 1	0.006 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.005 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration per Run 3	0.009 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	31.3 %	44.0 %	63.1 %	49.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0003 ppm	0.0026 ppm	-0.0009 ppm	0.0005 ppm
Concentration per Run 1	0.000 ppm	0.008 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.002 ppm	-0.002 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	-0.002 ppm	0.001 ppm	0.001 ppm
Concentration RSD	10.3 %	182.5 %	161.2 %	16.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0105 ppm	0.0004 ppm	0.0025 ppm	0.0002 ppm
Concentration per Run 1	0.012 ppm	0.000 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	0.005 ppm	0.000 ppm	0.004 ppm	0.000 ppm
Concentration per Run 3	0.015 ppm	0.000 ppm	0.002 ppm	0.000 ppm
Concentration RSD	46.1 %	28.5 %	68.5 %	63.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0109 ppm	101.3558 %	95.7215 %	100.4714 %
Concentration per Run 1	0.012 ppm	101.218 %	95.054 %	100.131 %
Concentration per Run 2	0.011 ppm	101.413 %	95.830 %	100.695 %
Concentration per Run 3	0.009 ppm	101.436 %	96.281 %	100.588 %
Concentration RSD	15.1 %	0.1 %	0.6 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	0.6 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.8320 %	-0.0272 ppm
Concentration per Run 1	100.672 %	-0.041 ppm
Concentration per Run 2	100.982 %	-0.043 ppm
Concentration per Run 3	100.842 %	0.003 ppm
Concentration RSD	0.2 %	95.9 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	7 cps	1 cps	2 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-16 cps	10 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	22 cps	11 cps	9 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	0 cps	26 cps	94 cps	29 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	-14 cps	-33 cps	-48 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	5 cps	-2 cps	-2 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	29 cps	2 cps	2 cps	5 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-17 cps	54 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2 cps	4,932 cps	7,277 cps	168,025 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,631 cps	0 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0397 ppm	0.5057 ppm	0.5086 ppm	1.0243 ppm
Concentration per Run 1	2.038 ppm	0.506 ppm	0.508 ppm	1.019 ppm
Concentration per Run 2	2.038 ppm	0.506 ppm	0.509 ppm	1.026 ppm
Concentration per Run 3	2.043 ppm	0.505 ppm	0.509 ppm	1.028 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5038 ppm	2.0683 ppm	0.9697 ppm	1.9810 ppm
Concentration per Run 1	0.499 ppm	2.066 ppm	0.968 ppm	1.893 ppm
Concentration per Run 2	0.504 ppm	2.072 ppm	0.968 ppm	2.024 ppm
Concentration per Run 3	0.508 ppm	2.066 ppm	0.973 ppm	2.026 ppm
Concentration RSD	0.8 %	0.2 %	0.3 %	3.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0562 ppm	3.0545 ppm	10.1399 ppm	10.2956 ppm
Concentration per Run 1	2.052 ppm	3.049 ppm	9.587 ppm	9.791 ppm
Concentration per Run 2	2.056 ppm	3.053 ppm	10.350 ppm	10.500 ppm
Concentration per Run 3	2.061 ppm	3.061 ppm	10.483 ppm	10.596 ppm
Concentration RSD	0.2 %	0.2 %	4.8 %	4.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.5 ppm	0.4 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.6650 ppm	1.3789 ppm	49.0074 ppm	50.9675 ppm
Concentration per Run 1	10.111 ppm	1.312 ppm	46.773 ppm	48.640 ppm
Concentration per Run 2	10.866 ppm	1.414 ppm	50.091 ppm	52.009 ppm
Concentration per Run 3	11.018 ppm	1.411 ppm	50.158 ppm	52.253 ppm
Concentration RSD	4.6 %	4.2 %	3.9 %	4.0 %
Concentration SD	0.5 ppm	0.1 ppm	1.9 ppm	2.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.1812 ppm	48.2828 ppm	45.9493 ppm	50.7001 ppm
Concentration per Run 1	9.739 ppm	46.221 ppm	43.810 ppm	48.101 ppm
Concentration per Run 2	10.391 ppm	49.352 ppm	47.051 ppm	52.077 ppm
Concentration per Run 3	10.413 ppm	49.275 ppm	46.986 ppm	51.922 ppm
Concentration RSD	3.8 %	3.7 %	4.0 %	4.4 %
Concentration SD	0.4 ppm	1.8 ppm	1.9 ppm	2.3 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0203 ppm	0.2058 ppm	1.0174 ppm	1.9170 ppm
Concentration per Run 1	2.026 ppm	0.196 ppm	1.015 ppm	1.919 ppm
Concentration per Run 2	2.017 ppm	0.210 ppm	1.018 ppm	1.913 ppm
Concentration per Run 3	2.017 ppm	0.211 ppm	1.020 ppm	1.919 ppm
Concentration RSD	0.3 %	4.2 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9912 ppm	1.0266 ppm	1.0017 ppm	0.5455 ppm
Concentration per Run 1	0.991 ppm	0.976 ppm	0.953 ppm	0.545 ppm
Concentration per Run 2	0.990 ppm	1.053 ppm	1.024 ppm	0.546 ppm
Concentration per Run 3	0.992 ppm	1.051 ppm	1.028 ppm	0.546 ppm
Concentration RSD	0.1 %	4.2 %	4.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	2.0049 ppm	0.9016 ppm	1.9568 ppm	1.9287 ppm
Concentration per Run 1	1.906 ppm	0.861 ppm	1.955 ppm	1.927 ppm
Concentration per Run 2	2.042 ppm	0.922 ppm	1.956 ppm	1.931 ppm
Concentration per Run 3	2.067 ppm	0.922 ppm	1.959 ppm	1.929 ppm
Concentration RSD	4.3 %	3.9 %	0.1 %	0.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.7331 ppm	88.9337 %	97.7748 %	94.7670 %
Concentration per Run 1	4.729 ppm	88.782 %	100.860 %	95.009 %
Concentration per Run 2	4.740 ppm	89.180 %	96.170 %	94.623 %
Concentration per Run 3	4.731 ppm	88.839 %	96.294 %	94.669 %
Concentration RSD	0.1 %	0.2 %	2.7 %	0.2 %
Concentration SD	0.0 ppm	0.2 %	2.7 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	96.1291 %	0.0050 ppm
Concentration per Run 1	95.907 %	0.000 ppm
Concentration per Run 2	96.294 %	0.046 ppm
Concentration per Run 3	96.186 %	-0.031 ppm
Concentration RSD	0.2 %	770.9 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	830 cps	3,644 cps	4,315 cps	8,894 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	379 cps	592 cps	8,564 cps	1,159 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	4,010 cps	16,683 cps	642 cps	5,092 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	265 cps	13,323 cps	24,126 cps	13,298 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	486 cps	27,674 cps	66,516 cps	4,946 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,055 cps	2,971 cps	5,392 cps	1,172 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	41,095 cps	434 cps	1,539 cps	1,039 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	549 cps	23,148 cps	4,700 cps	2,654 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,441 cps	4,327 cps	7,433 cps	158,486 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,809 cps	6 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0035 ppm	0.0000 ppm	0.0001 ppm	0.0003 ppm
Concentration per Run 1	0.003 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.004 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.004 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	18.9 %	47.0 %	53.1 %	118.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	-0.0003 ppm	0.0012 ppm	-0.0004 ppm	-0.0022 ppm
Concentration per Run 1	0.001 ppm	-0.002 ppm	0.000 ppm	-0.006 ppm
Concentration per Run 2	-0.001 ppm	0.002 ppm	-0.001 ppm	0.004 ppm
Concentration per Run 3	-0.001 ppm	0.004 ppm	0.000 ppm	-0.005 ppm
Concentration RSD	531.9 %	257.3 %	79.3 %	256.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	-0.0154 ppm	0.0170 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.031 ppm	0.017 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.038 ppm	0.015 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.040 ppm	0.019 ppm
Concentration RSD	167.0 %	220.7 %	261.8 %	12.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0496 ppm	0.0005 ppm	0.0777 ppm	0.0688 ppm
Concentration per Run 1	-0.111 ppm	0.003 ppm	0.070 ppm	0.060 ppm
Concentration per Run 2	0.108 ppm	-0.001 ppm	0.091 ppm	0.065 ppm
Concentration per Run 3	0.152 ppm	-0.001 ppm	0.072 ppm	0.082 ppm
Concentration RSD	283.6 %	490.9 %	14.5 %	16.6 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0007 ppm	-0.0456 ppm	0.0174 ppm	-0.2142 ppm
Concentration per Run 1	0.044 ppm	-0.027 ppm	0.015 ppm	-0.147 ppm
Concentration per Run 2	-0.055 ppm	-0.083 ppm	0.019 ppm	-0.355 ppm
Concentration per Run 3	0.009 ppm	-0.027 ppm	0.018 ppm	-0.141 ppm
Concentration RSD	6,714.5 %	70.2 %	13.7 %	56.9 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0054 ppm	0.0001 ppm	-0.0002 ppm	0.0002 ppm
Concentration per Run 1	0.004 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.006 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 3	0.007 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	28.5 %	155.7 %	34.0 %	318.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0006 ppm	-0.0014 ppm	-0.0009 ppm	0.0002 ppm
Concentration per Run 1	0.000 ppm	0.003 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.002 ppm	-0.002 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	-0.009 ppm	-0.002 ppm	0.000 ppm
Concentration RSD	13.5 %	450.4 %	240.2 %	95.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0088 ppm	0.0005 ppm	0.0080 ppm	-0.0002 ppm
Concentration per Run 1	0.003 ppm	0.001 ppm	0.008 ppm	-0.001 ppm
Concentration per Run 2	0.016 ppm	0.000 ppm	0.008 ppm	0.000 ppm
Concentration per Run 3	0.007 ppm	0.001 ppm	0.008 ppm	0.001 ppm
Concentration RSD	72.1 %	40.8 %	4.8 %	299.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0054 ppm	102.3459 %	97.2137 %	101.0937 %
Concentration per Run 1	0.005 ppm	102.084 %	97.172 %	100.799 %
Concentration per Run 2	0.008 ppm	102.375 %	96.742 %	101.311 %
Concentration per Run 3	0.003 ppm	102.579 %	97.728 %	101.171 %
Concentration RSD	48.8 %	0.2 %	0.5 %	0.3 %
Concentration SD	0.0 ppm	0.2 %	0.5 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.6280 %	-0.0698 ppm
Concentration per Run 1	101.482 %	-0.087 ppm
Concentration per Run 2	101.702 %	-0.022 ppm
Concentration per Run 3	101.700 %	-0.100 ppm
Concentration RSD	0.1 %	59.7 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	5 cps	2 cps	3 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	0 cps	-15 cps	10 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-4 cps	2 cps	13 cps	8 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	33 cps	122 cps	46 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2 cps	-32 cps	-25 cps	-53 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	-3 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	42 cps	0 cps	2 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-16 cps	68 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	0 cps	4,980 cps	7,391 cps	169,066 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,770 cps	-7 cps

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Sample Type QC Analysis Date 10/16/2015 6:01:56 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0212 ppm	0.5013 ppm	0.5047 ppm	1.0283 ppm
Concentration per Run 1	2.022 ppm	0.502 ppm	0.505 ppm	1.025 ppm
Concentration per Run 2	2.020 ppm	0.500 ppm	0.504 ppm	1.029 ppm
Concentration per Run 3	2.022 ppm	0.502 ppm	0.505 ppm	1.031 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5014 ppm	2.0569 ppm	0.9609 ppm	2.0179 ppm
Concentration per Run 1	0.501 ppm	2.052 ppm	0.962 ppm	2.022 ppm
Concentration per Run 2	0.503 ppm	2.061 ppm	0.960 ppm	2.009 ppm
Concentration per Run 3	0.501 ppm	2.058 ppm	0.961 ppm	2.023 ppm
Concentration RSD	0.3 %	0.2 %	0.1 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0533 ppm	3.0340 ppm	10.3800 ppm	10.5011 ppm
Concentration per Run 1	2.053 ppm	3.033 ppm	10.366 ppm	10.512 ppm
Concentration per Run 2	2.056 ppm	3.036 ppm	10.447 ppm	10.507 ppm
Concentration per Run 3	2.051 ppm	3.033 ppm	10.326 ppm	10.484 ppm
Concentration RSD	0.1 %	0.1 %	0.6 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.8321 ppm	1.3940 ppm	49.8644 ppm	51.7681 ppm
Concentration per Run 1	10.817 ppm	1.402 ppm	50.005 ppm	52.033 ppm
Concentration per Run 2	10.897 ppm	1.390 ppm	49.891 ppm	51.741 ppm
Concentration per Run 3	10.782 ppm	1.390 ppm	49.697 ppm	51.530 ppm
Concentration RSD	0.5 %	0.5 %	0.3 %	0.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.2 ppm	0.3 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.4877 ppm	48.4653 ppm	46.5086 ppm	51.4471 ppm
Concentration per Run 1	10.456 ppm	48.640 ppm	46.668 ppm	51.195 ppm
Concentration per Run 2	10.531 ppm	48.532 ppm	46.530 ppm	51.890 ppm
Concentration per Run 3	10.476 ppm	48.224 ppm	46.328 ppm	51.256 ppm
Concentration RSD	0.4 %	0.4 %	0.4 %	0.7 %
Concentration SD	0.0 ppm	0.2 ppm	0.2 ppm	0.4 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.9979 ppm	0.2092 ppm	1.0142 ppm	1.9088 ppm
Concentration per Run 1	1.998 ppm	0.208 ppm	1.013 ppm	1.906 ppm
Concentration per Run 2	1.997 ppm	0.210 ppm	1.016 ppm	1.909 ppm
Concentration per Run 3	1.999 ppm	0.210 ppm	1.014 ppm	1.911 ppm
Concentration RSD	0.0 %	0.3 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9850 ppm	1.0393 ppm	1.0223 ppm	0.5395 ppm
Concentration per Run 1	0.986 ppm	1.049 ppm	1.026 ppm	0.541 ppm
Concentration per Run 2	0.985 ppm	1.040 ppm	1.020 ppm	0.539 ppm
Concentration per Run 3	0.984 ppm	1.029 ppm	1.020 ppm	0.539 ppm
Concentration RSD	0.1 %	1.0 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	2.0443 ppm	0.9175 ppm	1.9407 ppm	1.9159 ppm
Concentration per Run 1	2.049 ppm	0.924 ppm	1.942 ppm	1.915 ppm
Concentration per Run 2	2.045 ppm	0.916 ppm	1.941 ppm	1.915 ppm
Concentration per Run 3	2.038 ppm	0.913 ppm	1.939 ppm	1.918 ppm
Concentration RSD	0.3 %	0.6 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.6938 ppm	89.3780 %	95.7113 %	95.0640 %
Concentration per Run 1	4.694 ppm	89.304 %	95.796 %	95.144 %
Concentration per Run 2	4.690 ppm	89.247 %	94.748 %	94.896 %
Concentration per Run 3	4.697 ppm	89.583 %	96.590 %	95.151 %
Concentration RSD	0.1 %	0.2 %	1.0 %	0.2 %
Concentration SD	0.0 ppm	0.2 %	0.9 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	97.0191 %	-0.0301 ppm
Concentration per Run 1	96.980 %	-0.084 ppm
Concentration per Run 2	97.049 %	-0.035 ppm
Concentration per Run 3	97.029 %	0.028 ppm
Concentration RSD	0.0 %	185.5 %
Concentration SD	0.0 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	830 cps	3,646 cps	4,322 cps	8,957 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	379 cps	595 cps	8,513 cps	1,156 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	4,024 cps	16,725 cps	643 cps	5,088 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	264 cps	13,195 cps	24,045 cps	13,231 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	490 cps	27,210 cps	65,953 cps	4,918 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,053 cps	2,958 cps	5,402 cps	1,173 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	40,967 cps	431 cps	1,539 cps	1,038 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	548 cps	23,076 cps	4,676 cps	2,661 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,442 cps	4,349 cps	7,276 cps	158,982 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,964 cps	0 cps

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Sample Type QC Analysis Date 10/16/2015 6:04:45 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0123 ppm	0.0052 ppm	0.0019 ppm	0.0102 ppm
Concentration per Run 1	0.013 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration per Run 2	0.012 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration per Run 3	0.012 ppm	0.005 ppm	0.002 ppm	0.011 ppm
Concentration RSD	6.9 %	2.0 %	2.5 %	4.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0047 ppm	0.0102 ppm	0.0044 ppm	0.0072 ppm
Concentration per Run 1	0.005 ppm	0.010 ppm	0.004 ppm	0.007 ppm
Concentration per Run 2	0.004 ppm	0.009 ppm	0.004 ppm	0.006 ppm
Concentration per Run 3	0.004 ppm	0.012 ppm	0.005 ppm	0.008 ppm
Concentration RSD	14.2 %	17.3 %	13.7 %	9.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0097 ppm	0.0509 ppm	0.2372 ppm	0.1209 ppm
Concentration per Run 1	0.010 ppm	0.051 ppm	0.194 ppm	0.122 ppm
Concentration per Run 2	0.010 ppm	0.051 ppm	0.241 ppm	0.122 ppm
Concentration per Run 3	0.010 ppm	0.051 ppm	0.276 ppm	0.119 ppm
Concentration RSD	1.9 %	0.4 %	17.4 %	1.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.1945 ppm	0.0153 ppm	1.0347 ppm	1.0726 ppm
Concentration per Run 1	0.193 ppm	0.015 ppm	1.042 ppm	1.070 ppm
Concentration per Run 2	0.250 ppm	0.016 ppm	1.035 ppm	1.078 ppm
Concentration per Run 3	0.141 ppm	0.016 ppm	1.028 ppm	1.070 ppm
Concentration RSD	28.0 %	3.9 %	0.7 %	0.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	1.0493 ppm	1.0137 ppm	0.9844 ppm	0.8511 ppm
Concentration per Run 1	1.033 ppm	1.007 ppm	0.989 ppm	0.903 ppm
Concentration per Run 2	1.093 ppm	1.043 ppm	0.980 ppm	0.704 ppm
Concentration per Run 3	1.022 ppm	0.990 ppm	0.983 ppm	0.946 ppm
Concentration RSD	3.6 %	2.7 %	0.5 %	15.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0158 ppm	0.0021 ppm	0.0094 ppm	0.0099 ppm
Concentration per Run 1	0.015 ppm	0.002 ppm	0.009 ppm	0.009 ppm
Concentration per Run 2	0.016 ppm	0.002 ppm	0.010 ppm	0.012 ppm
Concentration per Run 3	0.016 ppm	0.002 ppm	0.009 ppm	0.008 ppm
Concentration RSD	3.7 %	2.7 %	1.5 %	20.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0110 ppm	0.0178 ppm	0.0476 ppm	0.0054 ppm
Concentration per Run 1	0.011 ppm	0.016 ppm	0.045 ppm	0.005 ppm
Concentration per Run 2	0.011 ppm	0.017 ppm	0.050 ppm	0.005 ppm
Concentration per Run 3	0.011 ppm	0.020 ppm	0.047 ppm	0.005 ppm
Concentration RSD	0.3 %	9.9 %	5.3 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0597 ppm	0.0096 ppm	0.0531 ppm	0.0485 ppm
Concentration per Run 1	0.048 ppm	0.010 ppm	0.053 ppm	0.049 ppm
Concentration per Run 2	0.060 ppm	0.010 ppm	0.052 ppm	0.048 ppm
Concentration per Run 3	0.071 ppm	0.009 ppm	0.054 ppm	0.048 ppm
Concentration RSD	18.9 %	1.6 %	1.7 %	1.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.8860 ppm	101.3854 %	97.4546 %	101.5700 %
Concentration per Run 1	0.887 ppm	101.161 %	97.446 %	101.673 %
Concentration per Run 2	0.887 ppm	101.513 %	98.069 %	101.861 %
Concentration per Run 3	0.884 ppm	101.482 %	96.849 %	101.176 %
Concentration RSD	0.2 %	0.2 %	0.6 %	0.3 %
Concentration SD	0.0 ppm	0.2 %	0.6 %	0.4 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	102.2474 %	-0.0266 ppm
Concentration per Run 1	102.093 %	-0.019 ppm
Concentration per Run 2	102.335 %	-0.014 ppm
Concentration per Run 3	102.314 %	-0.047 ppm
Concentration RSD	0.1 %	67.5 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1 cps	44 cps	18 cps	96 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	2 cps	3 cps	30 cps	15 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	18 cps	298 cps	28 cps	59 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	5 cps	175 cps	591 cps	307 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	52 cps	573 cps	1,372 cps	52 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	10 cps	26 cps	56 cps	4 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	505 cps	8 cps	76 cps	15 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	17 cps	219 cps	183 cps	74 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	285 cps	4,933 cps	7,409 cps	169,863 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,878 cps	0 cps

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Sample Type QC Analysis Date 10/16/2015 6:07:55 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0012 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	40.1 %	106.2 %	1,440.1 %	150.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0010 ppm	0.0012 ppm	-0.0005 ppm	-0.0013 ppm
Concentration per Run 1	0.000 ppm	0.003 ppm	-0.001 ppm	0.001 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	-0.001 ppm	-0.007 ppm
Concentration per Run 3	0.002 ppm	0.001 ppm	0.000 ppm	0.002 ppm
Concentration RSD	112.9 %	136.3 %	105.2 %	363.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0002 ppm	0.0001 ppm	-0.0136 ppm	0.0094 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.030 ppm	0.006 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.013 ppm	0.013 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.024 ppm	0.009 ppm
Concentration RSD	122.7 %	54.3 %	172.0 %	38.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0065 ppm	-0.0009 ppm	0.0150 ppm	0.0152 ppm
Concentration per Run 1	-0.022 ppm	-0.001 ppm	0.015 ppm	0.002 ppm
Concentration per Run 2	0.007 ppm	-0.002 ppm	0.014 ppm	0.041 ppm
Concentration per Run 3	-0.004 ppm	0.000 ppm	0.016 ppm	0.003 ppm
Concentration RSD	218.2 %	108.7 %	5.6 %	147.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0093 ppm	-0.0597 ppm	0.0132 ppm	-0.1899 ppm
Concentration per Run 1	-0.024 ppm	-0.083 ppm	0.005 ppm	-0.210 ppm
Concentration per Run 2	-0.049 ppm	-0.050 ppm	0.016 ppm	-0.281 ppm
Concentration per Run 3	0.045 ppm	-0.045 ppm	0.019 ppm	-0.079 ppm
Concentration RSD	521.0 %	34.7 %	54.7 %	54.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0020 ppm	0.0001 ppm	-0.0003 ppm	0.0005 ppm
Concentration per Run 1	0.003 ppm	0.000 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration RSD	46.7 %	90.7 %	64.5 %	454.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0004 ppm	0.0003 ppm	-0.0007 ppm	-0.0002 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.001 ppm	-0.003 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.001 ppm	-0.001 ppm	0.000 ppm
Concentration RSD	18.6 %	294.8 %	248.3 %	48.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0062 ppm	0.0002 ppm	0.0051 ppm	-0.0002 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.003 ppm	0.000 ppm
Concentration per Run 2	0.007 ppm	0.000 ppm	0.007 ppm	0.000 ppm
Concentration per Run 3	0.011 ppm	0.000 ppm	0.005 ppm	0.000 ppm
Concentration RSD	87.7 %	40.7 %	41.1 %	96.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0040 ppm	102.3769 %	96.6862 %	101.4161 %
Concentration per Run 1	0.003 ppm	102.264 %	96.970 %	101.232 %
Concentration per Run 2	0.005 ppm	102.428 %	96.961 %	101.511 %
Concentration per Run 3	0.004 ppm	102.438 %	96.128 %	101.506 %
Concentration RSD	21.7 %	0.1 %	0.5 %	0.2 %
Concentration SD	0.0 ppm	0.1 %	0.5 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.9889 %	-0.0085 ppm
Concentration per Run 1	101.908 %	-0.015 ppm
Concentration per Run 2	102.086 %	-0.003 ppm
Concentration per Run 3	101.972 %	-0.008 ppm
Concentration RSD	0.1 %	74.5 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	4 cps	1 cps	2 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	0 cps	-16 cps	11 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	2 cps	13 cps	4 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	0 cps	19 cps	91 cps	32 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	-40 cps	-31 cps	-50 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	3 cps	-3 cps	-3 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	36 cps	1 cps	2 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-23 cps	61 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	0 cps	4,981 cps	7,351 cps	169,605 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,833 cps	4 cps

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CCV 15I21330

Sample Type QC Analysis Date 10/16/2015 6:16:02 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0101 ppm	0.4998 ppm	0.5033 ppm	1.0196 ppm
Concentration per Run 1	2.010 ppm	0.499 ppm	0.504 ppm	1.022 ppm
Concentration per Run 2	2.009 ppm	0.500 ppm	0.504 ppm	1.018 ppm
Concentration per Run 3	2.012 ppm	0.500 ppm	0.502 ppm	1.019 ppm
Concentration RSD	0.1 %	0.1 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.5000 ppm	2.0422 ppm	0.9632 ppm	1.9654 ppm
Concentration per Run 1	0.499 ppm	2.044 ppm	0.963 ppm	1.966 ppm
Concentration per Run 2	0.501 ppm	2.039 ppm	0.963 ppm	1.950 ppm
Concentration per Run 3	0.500 ppm	2.044 ppm	0.963 ppm	1.980 ppm
Concentration RSD	0.1 %	0.1 %	0.0 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0432 ppm	3.0180 ppm	10.0799 ppm	10.2121 ppm
Concentration per Run 1	2.042 ppm	3.018 ppm	10.121 ppm	10.225 ppm
Concentration per Run 2	2.047 ppm	3.024 ppm	9.995 ppm	10.124 ppm
Concentration per Run 3	2.041 ppm	3.012 ppm	10.124 ppm	10.287 ppm
Concentration RSD	0.2 %	0.2 %	0.7 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.5588 ppm	1.3611 ppm	48.3183 ppm	50.7516 ppm
Concentration per Run 1	10.385 ppm	1.361 ppm	48.390 ppm	50.814 ppm
Concentration per Run 2	10.522 ppm	1.351 ppm	47.812 ppm	50.229 ppm
Concentration per Run 3	10.770 ppm	1.372 ppm	48.752 ppm	51.212 ppm
Concentration RSD	1.9 %	0.8 %	1.0 %	1.0 %
Concentration SD	0.2 ppm	0.0 ppm	0.5 ppm	0.5 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.1687 ppm	47.5426 ppm	45.2013 ppm	50.3781 ppm
Concentration per Run 1	10.025 ppm	47.711 ppm	45.327 ppm	50.309 ppm
Concentration per Run 2	10.208 ppm	47.181 ppm	44.812 ppm	50.044 ppm
Concentration per Run 3	10.273 ppm	47.736 ppm	45.465 ppm	50.782 ppm
Concentration RSD	1.3 %	0.7 %	0.8 %	0.7 %
Concentration SD	0.1 ppm	0.3 ppm	0.3 ppm	0.4 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.9796 ppm	0.2037 ppm	1.0086 ppm	1.8991 ppm
Concentration per Run 1	1.990 ppm	0.204 ppm	1.008 ppm	1.902 ppm
Concentration per Run 2	1.981 ppm	0.202 ppm	1.011 ppm	1.899 ppm
Concentration per Run 3	1.968 ppm	0.205 ppm	1.007 ppm	1.897 ppm
Concentration RSD	0.6 %	0.8 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9853 ppm	1.0157 ppm	0.9926 ppm	0.5424 ppm
Concentration per Run 1	0.985 ppm	1.022 ppm	0.994 ppm	0.542 ppm
Concentration per Run 2	0.985 ppm	1.010 ppm	0.981 ppm	0.543 ppm
Concentration per Run 3	0.985 ppm	1.015 ppm	1.003 ppm	0.541 ppm
Concentration RSD	0.0 %	0.6 %	1.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.9987 ppm	0.9011 ppm	1.9434 ppm	1.9004 ppm
Concentration per Run 1	1.997 ppm	0.906 ppm	1.933 ppm	1.904 ppm
Concentration per Run 2	1.978 ppm	0.892 ppm	1.945 ppm	1.907 ppm
Concentration per Run 3	2.020 ppm	0.906 ppm	1.952 ppm	1.890 ppm
Concentration RSD	1.1 %	0.9 %	0.5 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	4.6651 ppm	89.4922 %	97.6625 %	95.4441 %
Concentration per Run 1	4.673 ppm	89.654 %	97.413 %	95.337 %
Concentration per Run 2	4.670 ppm	89.269 %	98.385 %	95.535 %
Concentration per Run 3	4.652 ppm	89.554 %	97.189 %	95.460 %
Concentration RSD	0.2 %	0.2 %	0.7 %	0.1 %
Concentration SD	0.0 ppm	0.2 %	0.6 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	97.0439 %	0.0165 ppm
Concentration per Run 1	97.129 %	0.020 ppm
Concentration per Run 2	96.926 %	0.041 ppm
Concentration per Run 3	97.076 %	-0.012 ppm
Concentration RSD	0.1 %	160.5 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	826 cps	3,636 cps	4,311 cps	8,916 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	379 cps	591 cps	8,567 cps	1,149 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	4,010 cps	16,641 cps	638 cps	5,049 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	263 cps	13,146 cps	23,776 cps	13,235 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	485 cps	27,236 cps	65,403 cps	4,913 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,044 cps	2,939 cps	5,379 cps	1,169 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	41,144 cps	429 cps	1,524 cps	1,043 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	547 cps	23,125 cps	4,701 cps	2,640 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,433 cps	4,354 cps	7,425 cps	159,618 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,969 cps	8 cps

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Sample Type QC Analysis Date 10/16/2015 6:18:50 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0018 ppm	0.0001 ppm	0.0001 ppm	0.0002 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	21.5 %	116.4 %	61.7 %	147.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0004 ppm	0.0043 ppm	-0.0001 ppm	0.0014 ppm
Concentration per Run 1	0.001 ppm	0.006 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.001 ppm	0.002 ppm	0.000 ppm	0.004 ppm
Concentration per Run 3	0.000 ppm	0.005 ppm	-0.001 ppm	0.001 ppm
Concentration RSD	181.0 %	42.8 %	551.6 %	155.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0019 ppm	0.0045 ppm	-0.0092 ppm	0.0215 ppm
Concentration per Run 1	0.002 ppm	0.004 ppm	0.001 ppm	0.024 ppm
Concentration per Run 2	0.002 ppm	0.005 ppm	-0.040 ppm	0.023 ppm
Concentration per Run 3	0.002 ppm	0.005 ppm	0.011 ppm	0.018 ppm
Concentration RSD	9.6 %	0.5 %	291.9 %	12.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0527 ppm	-0.0006 ppm	0.0632 ppm	0.0607 ppm
Concentration per Run 1	0.026 ppm	-0.001 ppm	0.064 ppm	0.050 ppm
Concentration per Run 2	0.023 ppm	0.000 ppm	0.068 ppm	0.071 ppm
Concentration per Run 3	0.109 ppm	-0.001 ppm	0.057 ppm	0.061 ppm
Concentration RSD	92.4 %	141.6 %	9.0 %	17.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0097 ppm	-0.0265 ppm	0.0461 ppm	-0.1522 ppm
Concentration per Run 1	-0.040 ppm	-0.018 ppm	0.045 ppm	-0.172 ppm
Concentration per Run 2	0.014 ppm	-0.034 ppm	0.038 ppm	-0.078 ppm
Concentration per Run 3	-0.003 ppm	-0.028 ppm	0.055 ppm	-0.207 ppm
Concentration RSD	285.1 %	30.8 %	18.7 %	43.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0080 ppm	0.0001 ppm	-0.0002 ppm	0.0000 ppm
Concentration per Run 1	0.007 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.008 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.009 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	11.3 %	125.1 %	32.6 %	3,249.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0008 ppm	0.0004 ppm	-0.0020 ppm	0.0001 ppm
Concentration per Run 1	0.001 ppm	0.001 ppm	-0.002 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	-0.001 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.002 ppm	-0.004 ppm	0.000 ppm
Concentration RSD	13.8 %	383.3 %	66.5 %	187.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0095 ppm	0.0002 ppm	0.0027 ppm	0.0001 ppm
Concentration per Run 1	0.022 ppm	0.000 ppm	0.003 ppm	0.000 ppm
Concentration per Run 2	0.007 ppm	0.000 ppm	0.002 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.003 ppm	0.000 ppm
Concentration RSD	117.7 %	125.2 %	22.9 %	191.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0124 ppm	102.5226 %	95.7469 %	101.2920 %
Concentration per Run 1	0.015 ppm	102.570 %	95.705 %	101.376 %
Concentration per Run 2	0.012 ppm	102.480 %	95.220 %	101.596 %
Concentration per Run 3	0.010 ppm	102.518 %	96.316 %	100.905 %
Concentration RSD	17.3 %	0.0 %	0.6 %	0.3 %
Concentration SD	0.0 ppm	0.0 %	0.5 %	0.4 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.9143 %	-0.0215 ppm
Concentration per Run 1	101.997 %	-0.001 ppm
Concentration per Run 2	101.811 %	-0.052 ppm
Concentration per Run 3	101.934 %	-0.012 ppm
Concentration RSD	0.1 %	126.0 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	5 cps	2 cps	3 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-12 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1 cps	28 cps	13 cps	10 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	22 cps	114 cps	43 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	-21 cps	16 cps	-46 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	6 cps	-3 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	53 cps	1 cps	0 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-22 cps	55 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2 cps	4,989 cps	7,279 cps	169,398 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,820 cps	1 cps

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QTEGRA

CCVLL 15I21316

Sample Type QC Analysis Date 10/16/2015 6:22:01 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0120 ppm	0.0050 ppm	0.0019 ppm	0.0100 ppm
Concentration per Run 1	0.010 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration per Run 2	0.014 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration per Run 3	0.012 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration RSD	15.2 %	2.2 %	4.0 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0051 ppm	0.0123 ppm	0.0046 ppm	0.0115 ppm
Concentration per Run 1	0.007 ppm	0.015 ppm	0.004 ppm	0.014 ppm
Concentration per Run 2	0.004 ppm	0.011 ppm	0.005 ppm	0.011 ppm
Concentration per Run 3	0.005 ppm	0.011 ppm	0.004 ppm	0.009 ppm
Concentration RSD	30.4 %	16.4 %	7.7 %	23.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0102 ppm	0.0511 ppm	0.2034 ppm	0.1138 ppm
Concentration per Run 1	0.010 ppm	0.051 ppm	0.185 ppm	0.115 ppm
Concentration per Run 2	0.011 ppm	0.051 ppm	0.206 ppm	0.114 ppm
Concentration per Run 3	0.010 ppm	0.051 ppm	0.219 ppm	0.112 ppm
Concentration RSD	2.8 %	0.4 %	8.4 %	1.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.1937 ppm	0.0155 ppm	1.0327 ppm	1.0664 ppm
Concentration per Run 1	0.247 ppm	0.014 ppm	1.032 ppm	1.078 ppm
Concentration per Run 2	0.139 ppm	0.017 ppm	1.028 ppm	1.053 ppm
Concentration per Run 3	0.194 ppm	0.016 ppm	1.039 ppm	1.069 ppm
Concentration RSD	27.8 %	10.7 %	0.5 %	1.2 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.9986 ppm	0.9335 ppm	0.9891 ppm	0.8249 ppm
Concentration per Run 1	0.975 ppm	0.920 ppm	0.986 ppm	0.947 ppm
Concentration per Run 2	1.027 ppm	0.953 ppm	0.995 ppm	0.791 ppm
Concentration per Run 3	0.995 ppm	0.927 ppm	0.987 ppm	0.737 ppm
Concentration RSD	2.6 %	1.9 %	0.5 %	13.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0103 ppm	0.0022 ppm	0.0094 ppm	0.0095 ppm
Concentration per Run 1	0.010 ppm	0.002 ppm	0.009 ppm	0.009 ppm
Concentration per Run 2	0.011 ppm	0.002 ppm	0.010 ppm	0.010 ppm
Concentration per Run 3	0.011 ppm	0.002 ppm	0.009 ppm	0.010 ppm
Concentration RSD	6.2 %	1.4 %	2.3 %	8.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0103 ppm	0.0214 ppm	0.0487 ppm	0.0051 ppm
Concentration per Run 1	0.010 ppm	0.021 ppm	0.049 ppm	0.005 ppm
Concentration per Run 2	0.010 ppm	0.019 ppm	0.048 ppm	0.005 ppm
Concentration per Run 3	0.010 ppm	0.023 ppm	0.049 ppm	0.005 ppm
Concentration RSD	1.1 %	9.1 %	0.9 %	3.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0537 ppm	0.0095 ppm	0.0472 ppm	0.0473 ppm
Concentration per Run 1	0.058 ppm	0.009 ppm	0.047 ppm	0.047 ppm
Concentration per Run 2	0.053 ppm	0.010 ppm	0.048 ppm	0.047 ppm
Concentration per Run 3	0.050 ppm	0.010 ppm	0.047 ppm	0.048 ppm
Concentration RSD	8.2 %	1.4 %	1.2 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.8775 ppm	101.8595 %	96.9293 %	101.9326 %
Concentration per Run 1	0.880 ppm	102.098 %	96.381 %	101.497 %
Concentration per Run 2	0.878 ppm	101.805 %	97.761 %	102.252 %
Concentration per Run 3	0.875 ppm	101.676 %	96.646 %	102.049 %
Concentration RSD	0.2 %	0.2 %	0.8 %	0.4 %
Concentration SD	0.0 ppm	0.2 %	0.7 %	0.4 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	102.7887 %	-0.0020 ppm
Concentration per Run 1	102.916 %	0.018 ppm
Concentration per Run 2	102.684 %	0.004 ppm
Concentration per Run 3	102.766 %	-0.028 ppm
Concentration RSD	0.1 %	1,174.5 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1 cps	43 cps	18 cps	95 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	3 cps	4 cps	33 cps	18 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	19 cps	301 cps	26 cps	55 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	5 cps	177 cps	587 cps	303 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	49 cps	524 cps	1,372 cps	49 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	7 cps	27 cps	56 cps	3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	477 cps	10 cps	78 cps	14 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	15 cps	214 cps	169 cps	72 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	284 cps	4,956 cps	7,369 cps	170,469 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,973 cps	5 cps

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ICSA 15I21332

Sample Type QC Analysis Date 10/16/2015 6:25:11 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	-0.0112 ppm	0.0027 ppm	0.0009 ppm
Concentration per Run 1	-0.012 ppm	0.003 ppm	0.001 ppm
Concentration per Run 2	-0.013 ppm	0.003 ppm	0.001 ppm
Concentration per Run 3	-0.008 ppm	0.003 ppm	0.001 ppm
Concentration RSD	24.2 %	2.6 %	16.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0019 ppm	-0.0378 ppm	0.0189 ppm
Concentration per Run 1	0.002 ppm	-0.040 ppm	0.019 ppm
Concentration per Run 2	0.002 ppm	-0.039 ppm	0.021 ppm
Concentration per Run 3	0.002 ppm	-0.034 ppm	0.016 ppm
Concentration RSD	25.4 %	7.9 %	14.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	-0.0013 ppm	0.0054 ppm	0.0113 ppm
Concentration per Run 1	-0.002 ppm	0.006 ppm	0.012 ppm
Concentration per Run 2	-0.002 ppm	0.009 ppm	0.012 ppm
Concentration per Run 3	0.000 ppm	0.001 ppm	0.010 ppm
Concentration RSD	58.6 %	79.2 %	7.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0114 ppm	503.4679 ppm	185.2603 ppm
Concentration per Run 1	0.011 ppm	502.623 ppm	184.887 ppm
Concentration per Run 2	0.011 ppm	503.500 ppm	185.121 ppm
Concentration per Run 3	0.011 ppm	504.281 ppm	185.773 ppm
Concentration RSD	0.5 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.8 ppm	0.5 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	194.3444 ppm	0.0138 ppm	459.0775 ppm
Concentration per Run 1	193.318 ppm	0.015 ppm	456.836 ppm
Concentration per Run 2	194.576 ppm	0.012 ppm	459.015 ppm
Concentration per Run 3	195.139 ppm	0.015 ppm	461.381 ppm
Concentration RSD	0.5 %	12.4 %	0.5 %
Concentration SD	0.9 ppm	0.0 ppm	2.3 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	486.8639 ppm	507.1737 ppm	0.0886 ppm
Concentration per Run 1	485.784 ppm	506.767 ppm	0.112 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	486.447 ppm	505.707 ppm	0.113 ppm
Concentration per Run 3	488.362 ppm	509.047 ppm	0.041 ppm
Concentration RSD	0.3 %	0.3 %	46.1 %
Concentration SD	1.3 ppm	1.7 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	0.2143 ppm	0.2445 ppm	0.0113 ppm
Concentration per Run 1	0.216 ppm	0.334 ppm	0.010 ppm
Concentration per Run 2	0.213 ppm	0.191 ppm	0.011 ppm
Concentration per Run 3	0.214 ppm	0.209 ppm	0.013 ppm
Concentration RSD	0.6 %	31.9 %	11.6 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0002 ppm	-0.0008 ppm	-0.0052 ppm
Concentration per Run 1	0.000 ppm	-0.001 ppm	-0.007 ppm
Concentration per Run 2	0.000 ppm	-0.001 ppm	-0.009 ppm
Concentration per Run 3	0.000 ppm	-0.001 ppm	0.001 ppm
Concentration RSD	50.6 %	16.6 %	101.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.0041 ppm	-0.0020 ppm	0.0282 ppm
Concentration per Run 1	0.004 ppm	-0.005 ppm	0.030 ppm
Concentration per Run 2	0.004 ppm	-0.004 ppm	0.025 ppm
Concentration per Run 3	0.004 ppm	0.002 ppm	0.030 ppm
Concentration RSD	0.6 %	182.6 %	9.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0006 ppm	0.0050 ppm	0.0059 ppm
Concentration per Run 1	0.000 ppm	0.003 ppm	0.006 ppm
Concentration per Run 2	0.000 ppm	0.009 ppm	0.006 ppm
Concentration per Run 3	0.002 ppm	0.004 ppm	0.006 ppm
Concentration RSD	157.4 %	64.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	-0.0040 ppm	0.0003 ppm	0.0166 ppm
Concentration per Run 1	-0.004 ppm	0.000 ppm	0.015 ppm
Concentration per Run 2	-0.005 ppm	0.000 ppm	0.018 ppm
Concentration per Run 3	-0.003 ppm	0.000 ppm	0.016 ppm
Concentration RSD	33.7 %	72.1 %	10.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	74.1015 %	91.5358 %	85.5426 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	74.029 %	91.946 %	85.550 %
Concentration per Run 2	74.097 %	91.461 %	85.626 %
Concentration per Run 3	74.178 %	91.201 %	85.452 %
Concentration RSD	0.1 %	0.4 %	0.1 %
Concentration SD	0.1 %	0.4 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	88.0853 %	0.2186 ppm
Concentration per Run 1	87.812 %	0.292 ppm
Concentration per Run 2	88.140 %	0.154 ppm
Concentration per Run 3	88.303 %	0.210 ppm
Concentration RSD	0.3 %	31.8 %
Concentration SD	0.3 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-8 cps	22 cps	8 cps	16 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-25 cps	5 cps	-20 cps	14 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	16 cps	59 cps	29,234 cps	85,855 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	4,534 cps	151 cps	211,059 cps	118,781 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	22,594 cps	41 cps	244 cps	-7 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	7 cps	-2 cps	-4 cps	-5 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	168 cps	0 cps	44 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	117 cps	32 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	3 cps	3,606 cps	6,959 cps	143,059 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	15,402 cps	44 cps

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ICSAB 15I21333

Sample Type QC Analysis Date 10/16/2015 6:28:24 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.4921 ppm	0.4800 ppm	1.0129 ppm
Concentration per Run 1	0.491 ppm	0.480 ppm	1.014 ppm
Concentration per Run 2	0.493 ppm	0.480 ppm	1.012 ppm
Concentration per Run 3	0.492 ppm	0.480 ppm	1.012 ppm
Concentration RSD	0.2 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4756 ppm	0.9558 ppm	0.5277 ppm
Concentration per Run 1	0.478 ppm	0.952 ppm	0.534 ppm
Concentration per Run 2	0.474 ppm	0.956 ppm	0.526 ppm
Concentration per Run 3	0.475 ppm	0.959 ppm	0.523 ppm
Concentration RSD	0.5 %	0.4 %	1.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	1.0615 ppm	0.5044 ppm	1.0234 ppm
Concentration per Run 1	1.064 ppm	0.509 ppm	1.020 ppm
Concentration per Run 2	1.059 ppm	0.502 ppm	1.026 ppm
Concentration per Run 3	1.061 ppm	0.502 ppm	1.024 ppm
Concentration RSD	0.3 %	0.7 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.9304 ppm	502.0410 ppm	184.9245 ppm
Concentration per Run 1	0.930 ppm	503.408 ppm	185.374 ppm
Concentration per Run 2	0.930 ppm	500.181 ppm	184.270 ppm
Concentration per Run 3	0.931 ppm	502.534 ppm	185.130 ppm
Concentration RSD	0.0 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	1.7 ppm	0.6 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	194.9118 ppm	0.0160 ppm	451.3895 ppm
Concentration per Run 1	195.741 ppm	0.015 ppm	453.122 ppm
Concentration per Run 2	194.635 ppm	0.015 ppm	447.483 ppm
Concentration per Run 3	194.360 ppm	0.018 ppm	453.563 ppm
Concentration RSD	0.4 %	9.8 %	0.8 %
Concentration SD	0.7 ppm	0.0 ppm	3.4 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	487.1672 ppm	505.2840 ppm	0.1340 ppm
Concentration per Run 1	488.802 ppm	508.351 ppm	0.151 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	485.530 ppm	502.799 ppm	0.131 ppm
Concentration per Run 3	487.170 ppm	504.702 ppm	0.121 ppm
Concentration RSD	0.3 %	0.6 %	11.5 %
Concentration SD	1.6 ppm	2.8 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	0.2359 ppm	0.1300 ppm	0.5056 ppm
Concentration per Run 1	0.238 ppm	0.211 ppm	0.506 ppm
Concentration per Run 2	0.231 ppm	0.030 ppm	0.508 ppm
Concentration per Run 3	0.239 ppm	0.149 ppm	0.502 ppm
Concentration RSD	1.7 %	70.9 %	0.6 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.4991 ppm	0.5077 ppm	0.4514 ppm
Concentration per Run 1	0.499 ppm	0.506 ppm	0.451 ppm
Concentration per Run 2	0.498 ppm	0.509 ppm	0.449 ppm
Concentration per Run 3	0.500 ppm	0.508 ppm	0.453 ppm
Concentration RSD	0.2 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.4718 ppm	0.4943 ppm	0.5111 ppm
Concentration per Run 1	0.473 ppm	0.493 ppm	0.511 ppm
Concentration per Run 2	0.471 ppm	0.488 ppm	0.507 ppm
Concentration per Run 3	0.472 ppm	0.501 ppm	0.515 ppm
Concentration RSD	0.2 %	1.3 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.4972 ppm	0.9965 ppm	0.0061 ppm
Concentration per Run 1	0.498 ppm	0.987 ppm	0.006 ppm
Concentration per Run 2	0.500 ppm	0.990 ppm	0.006 ppm
Concentration per Run 3	0.494 ppm	1.013 ppm	0.006 ppm
Concentration RSD	0.6 %	1.4 %	1.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	0.9342 ppm	0.4341 ppm	0.0358 ppm
Concentration per Run 1	0.938 ppm	0.434 ppm	0.036 ppm
Concentration per Run 2	0.934 ppm	0.436 ppm	0.038 ppm
Concentration per Run 3	0.931 ppm	0.432 ppm	0.034 ppm
Concentration RSD	0.4 %	0.5 %	5.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	74.0919 %	91.9681 %	85.8545 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	74.051 %	91.503 %	85.516 %
Concentration per Run 2	74.171 %	92.386 %	86.091 %
Concentration per Run 3	74.054 %	92.015 %	85.957 %
Concentration RSD	0.1 %	0.5 %	0.4 %
Concentration SD	0.1 %	0.4 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	88.2050 %	0.2371 ppm
Concentration per Run 1	88.082 %	0.225 ppm
Concentration per Run 2	88.341 %	0.297 ppm
Concentration per Run 3	88.192 %	0.189 ppm
Concentration RSD	0.1 %	23.1 %
Concentration SD	0.1 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	181 cps	3,175 cps	7,884 cps	3,742 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	601 cps	139 cps	8,493 cps	286 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1,661 cps	4,664 cps	29,289 cps	86,103 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	4,569 cps	172 cps	208,504 cps	119,416 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	22,616 cps	66 cps	274 cps	-18 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	243 cps	6,787 cps	2,241 cps	228 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	17,730 cps	197 cps	741 cps	870 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	257 cps	122 cps	2,054 cps	550 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	8 cps	3,605 cps	6,992 cps	143,581 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	15,423 cps	47 cps

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INSTBLK

Sample Type UNKNOWN Analysis Date 10/16/2015 6:31:22 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0005 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	172.3 %	86.9 %	1,358.0 %	84.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0018 ppm	0.0007 ppm	-0.0004 ppm	0.0008 ppm
Concentration per Run 1	0.003 ppm	0.001 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	-0.003 ppm	-0.001 ppm	0.002 ppm
Concentration per Run 3	0.001 ppm	0.004 ppm	0.000 ppm	0.000 ppm
Concentration RSD	58.7 %	486.5 %	95.7 %	135.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0000 ppm	0.0001 ppm	0.0556 ppm	0.0155 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.030 ppm	0.016 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.115 ppm	0.016 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.021 ppm	0.014 ppm
Concentration RSD	89.9 %	71.6 %	93.5 %	8.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0527 ppm	0.0008 ppm	0.0326 ppm	0.0335 ppm
Concentration per Run 1	0.041 ppm	0.000 ppm	0.040 ppm	0.036 ppm
Concentration per Run 2	0.136 ppm	0.002 ppm	0.026 ppm	0.046 ppm
Concentration per Run 3	-0.019 ppm	0.001 ppm	0.032 ppm	0.018 ppm
Concentration RSD	147.8 %	103.4 %	22.4 %	41.3 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0075 ppm	-0.0184 ppm	0.0244 ppm	-0.1827 ppm
Concentration per Run 1	0.036 ppm	-0.020 ppm	0.038 ppm	-0.383 ppm
Concentration per Run 2	-0.065 ppm	0.002 ppm	0.012 ppm	-0.135 ppm
Concentration per Run 3	0.006 ppm	-0.038 ppm	0.024 ppm	-0.029 ppm
Concentration RSD	690.2 %	108.5 %	53.0 %	99.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0001 ppm	0.0002 ppm	-0.0002 ppm	-0.0003 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	453.2 %	76.8 %	90.9 %	96.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0001 ppm	-0.0022 ppm	-0.0007 ppm	0.0001 ppm
Concentration per Run 1	0.000 ppm	-0.002 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.001 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	-0.004 ppm	-0.002 ppm	0.000 ppm
Concentration RSD	16.8 %	64.6 %	179.7 %	41.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0149 ppm	0.0002 ppm	0.0000 ppm	-0.0007 ppm
Concentration per Run 1	0.014 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.008 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 3	0.023 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	50.7 %	48.2 %	787.9 %	40.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0130 ppm	102.8020 %	95.4205 %	101.6624 %
Concentration per Run 1	0.011 ppm	102.567 %	95.230 %	101.212 %
Concentration per Run 2	0.013 ppm	102.707 %	95.639 %	101.583 %
Concentration per Run 3	0.015 ppm	103.132 %	95.392 %	102.192 %
Concentration RSD	16.3 %	0.3 %	0.2 %	0.5 %
Concentration SD	0.0 ppm	0.3 %	0.2 %	0.5 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	102.7827 %	-0.0293 ppm
Concentration per Run 1	102.602 %	0.004 ppm
Concentration per Run 2	102.654 %	-0.085 ppm
Concentration per Run 3	103.092 %	-0.007 ppm
Concentration RSD	0.3 %	165.6 %
Concentration SD	0.3 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	4 cps	1 cps	6 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	0 cps	0 cps	-15 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-4 cps	2 cps	17 cps	7 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	35 cps	99 cps	36 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	-17 cps	-14 cps	-49 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-1 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	24 cps	0 cps	2 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	5 cps	-23 cps	48 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2 cps	5,002 cps	7,254 cps	170,017 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,972 cps	0 cps

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LabBook 101915ICP13.imexp

Instrument
Serial number IC74DC143804

LabBook summary

Acquired by icp13 Date 10/19/2015 3:01:15 PM
Last changed by icp13 Date 10/19/2015 3:13:12 PM

Configuration iCAP 7000 ESI SC-4DX
Template
Evaluation eQuant
Number of samples 116
Number of results 116

Method parameters

View Direction	Radial	Axial
UV Exposure Time	15	15
UV RF Power	1150	1150
UV Neb Gas Flow	0.58	0.58
VIS Exposure Time	5	5
VIS RF Power	1150	1150
VIS Neb Gas Flow	0.58	0.58
Cool Gas Flow Rate	12	12
Aux Gas Flow Rate	0.5	0.5

Symbol	Wavelength (nm) / Order	Measure Mode	Internal Standard
As	189.042 {478}	Axial	Y 224.306 {450} (Axial)
Ba	233.527 {445}	Axial	Y 224.306 {450} (Axial)
Cd	228.802 {447}	Axial	Y 224.306 {450} (Axial)
Cr	267.716 {126}	Axial	Y 360.073 {94} (Axial)
Pb	220.353 {453}	Axial	In 230.606 {446} (Axial)
Se	196.090 {472}	Axial	Y 224.306 {450} (Axial)
Ag	328.068 {103}	Axial	Y 360.073 {94} (Axial)
Cu	324.754 {104}	Radial	Y 360.073 {94} (Radial)
Ni	231.604 {446}	Axial	In 230.606 {446} (Axial)
Zn	206.200 {463}	Axial	Y 224.306 {450} (Axial)
Al	308.215 {109}	Radial	Y 360.073 {94} (Radial)
Fe	259.940 {130}	Radial	Y 360.073 {94} (Radial)
Fe	271.441 {124}	Radial	Y 360.073 {94} (Radial)
Li	670.784 {50}	Radial	Y 360.073 {94} (Radial)
Ca	317.933 {106}	Radial	Y 360.073 {94} (Radial)
Ca	373.690 {90}	Radial	Y 360.073 {94} (Radial)
Mg	279.079 {121}	Radial	Y 360.073 {94} (Radial)
K	766.490 {44}	Radial	Y 360.073 {94} (Radial)
Na	589.592 {57}	Radial	Y 360.073 {94} (Radial)
Na	818.326 {41}	Radial	Y 360.073 {94} (Radial)
Sb	206.833 {463}	Axial	Y 224.306 {450} (Axial)
Be	313.042 {108}	Radial	Y 360.073 {94} (Radial)
Co	228.616 {447}	Axial	In 230.606 {446} (Axial)
Tl	190.856 {477}	Axial	In 230.606 {446} (Axial)
Mn	257.610 {131}	Axial	Y 360.073 {94} (Axial)
V	292.402 {115}	Radial	Y 360.073 {94} (Radial)
Ti	334.941 {101}	Radial	Y 360.073 {94} (Radial)
Mo	202.030 {467}	Axial	Y 224.306 {450} (Axial)

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Symbol	Wavelength (nm) / Order	Measure Mode	Internal Standard
B	249.678 {135}	Radial	Y 360.073 {94} (Radial)
Sr	421.552 {80}	Radial	Y 360.073 {94} (Radial)
Si	251.611 {134}	Axial	Y 360.073 {94} (Axial)
Sn	189.989 {477}	Axial	Y 224.306 {450} (Axial)
S	182.034 {485}	Axial	Y 224.306 {450} (Axial)
In	230.606 {446}	Axial	
Y	360.073 {94}	Radial	
Y	360.073 {94}	Axial	
Y	224.306 {450}	Axial	
Ce	535.353 {63}	Radial	

Symbol	Wavelength (nm) / Order	Peak X Location	Peak Y Location	Width	Height	Center region position	Center region width
As	189.042 {478}	175.5	252.73	13	5	6	2
Ba	233.527 {445}	505.92	9.25	13	5	6	2
Cd	228.802 {447}	175.45	25.7	13	5	6	2
Cr	267.716 {126}	308.41	238.31	13	2	6	2
Pb	220.353 {453}	289.05	59.93	13	5	6	3
Se	196.090 {472}	288.69	196.89	13	5	6	2
Ag	328.068 {103}	394.24	150.59	13	2	7	2
Cu	324.754 {104}	370.069	154.033	13	2	6	3
Ni	231.604 {446}	436.2	15.74	13	5	6	3
Zn	206.200 {463}	139.09	131.17	13	5	6	3
Al	308.215 {109}	113.35	173	13	2	6	2
Fe	259.940 {130}	395.43	255.29	13	2	6	2
Fe	271.441 {124}	202.85	230.85	13	2	6	3
Li	670.784 {50}	35.95	28.75	13	2	6	2
Ca	317.933 {106}	263.778	161.435	13	2	6	3
Ca	373.690 {90}	165.84	112.8	13	2	6	3
Mg	279.079 {121}	361.13	216.5	13	2	6	3
K	766.490 {44}	300.912	18.544	13	2	6	3
Na	589.592 {57}	130.84	40.31	13	2	6	3
Na	818.326 {41}	53.24	14.12	13	2	7	2
Sb	206.833 {463}	286.65	127.37	13	5	6	3
Be	313.042 {108}	419.7	167.11	13	2	6	2
Co	228.616 {447}	136.6	26.44	13	5	6	2
Tl	190.856 {477}	365.77	237.28	13	5	6	3
Mn	257.610 {131}	329.688	260.808	13	2	6	2
V	292.402 {115}	156.82	194.75	13	2	6	3
Ti	334.941 {101}	449.93	143.89	13	2	6	3
Mo	202.030 {467}	322.29	156.22	13	5	6	2
B	249.678 {135}	271.32	280.78	13	2	6	2
Sr	421.552 {80}	297.98	86.68	13	2	6	3
Si	251.611 {134}	284.78	275.67	13	2	6	3
Sn	189.989 {477}	145.28	244.74	13	5	6	3
S	182.034 {485}	212.2	318.95	13	5	7	2
In	230.606 {446}	225.03	18.98	13	5	6	3
Y	360.073 {94}	476.33	122.83	13	2	6	2
Y	360.073 {94}	476.33	122.83	13	2	6	2
Y	224.306 {450}	191.95	43.26	13	5	7	2
Ce	535.353 {63}	302.93	50.82	13	2	6	3

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Symbol	Wavelength (nm) / Order	Left Bkg	Location	Width	Right Bkg	Location	Width
As	189.042 {478}	None			Fixed	13	1
Ba	233.527 {445}	None			Fixed	13	1
Cd	228.802 {447}	None			Fixed	13	1
Cr	267.716 {126}	None			Fixed	13	1
Pb	220.353 {453}	Fixed	1	1	Fixed	13	1
Se	196.090 {472}	Fixed	1	1	None		
Ag	328.068 {103}	Fixed	3	1	None		
Cu	324.754 {104}	None			Fixed	13	1
Ni	231.604 {446}	Fixed	1	1	Fixed	13	1
Zn	206.200 {463}	Fixed	1	1	Fixed	13	1
Al	308.215 {109}	Fixed	1	1	None		
Fe	259.940 {130}	Fixed	1	1	Fixed	13	1
Fe	271.441 {124}	Fixed	1	1	Fixed	13	1
Li	670.784 {50}	Fixed	1	1	Fixed	13	1
Ca	317.933 {106}	Fixed	1	1	Fixed	13	1
Ca	373.690 {90}	Fixed	1	1	Fixed	13	1
Mg	279.079 {121}	Fixed	1	1	Fixed	13	1
K	766.490 {44}	Fixed	1	1	Fixed	13	1
Na	589.592 {57}	Fixed	1	1	Fixed	13	1
Na	818.326 {41}	Fixed	1	1	Fixed	13	1
Sb	206.833 {463}	Fixed	1	1	Fixed	13	1
Be	313.042 {108}	Fixed	1	1	Fixed	13	1
Co	228.616 {447}	Fixed	1	1	Fixed	13	1
Tl	190.856 {477}	Fixed	4	1	None		
Mn	257.610 {131}	None			Fixed	13	1
V	292.402 {115}	Fixed	1	1	Fixed	13	1
Ti	334.941 {101}	None			Fixed	13	1
Mo	202.030 {467}	Fixed	1	1	Fixed	13	1
B	249.678 {135}	None			Fixed	13	1
Sr	421.552 {80}	Fixed	1	1	Fixed	13	1
Si	251.611 {134}	Fixed	1	1	Fixed	13	1
Sn	189.989 {477}	Fixed	1	1	Fixed	13	1
S	182.034 {485}	None			Fixed	13	1
In	230.606 {446}	Fixed	1	1	Fixed	13	1
Y	360.073 {94}	Fixed	1	1	Fixed	13	1
Y	360.073 {94}	Fixed	1	1	Fixed	13	1
Y	224.306 {450}	Fixed	1	1	Fixed	13	1
Ce	535.353 {63}	Fixed	1	1	Fixed	13	1

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Calibration details

	STD1 15I21316	STD2 15G21064	STD3 15H06986
As 189.042 {478} (Axial)	0.0100 ppm	0.5000 ppm	1.0000 ppm
Ba 233.527 {445} (Axial)	0.0050 ppm	0.5000 ppm	1.0000 ppm
Cd 228.802 {447} (Axial)	0.0020 ppm	0.5000 ppm	1.0000 ppm
Cr 267.716 {126} (Axial)	0.0100 ppm	0.5000 ppm	1.0000 ppm
Pb 220.353 {453} (Axial)	0.0050 ppm	0.5000 ppm	1.0000 ppm
Se 196.090 {472} (Axial)	0.0100 ppm	0.5000 ppm	1.0000 ppm
Ag 328.068 {103} (Axial)	0.0050 ppm	0.5000 ppm	1.0000 ppm
Cu 324.754 {104} (Radial)	0.0100 ppm	0.5000 ppm	1.0000 ppm
Ni 231.604 {446} (Axial)	0.0100 ppm	0.5000 ppm	1.0000 ppm
Zn 206.200 {463} (Axial)	0.0500 ppm	0.5000 ppm	1.0000 ppm
Al 308.215 {109} (Radial)	0.2000 ppm	N/A	N/A
Fe 259.940 {130} (Radial)	0.1000 ppm	0.5000 ppm	1.0000 ppm
Fe 271.441 {124} (Radial)	N/A	N/A	N/A
Li 670.784 {50} (Radial)	0.0150 ppm	0.5000 ppm	1.0000 ppm
Ca 317.933 {106} (Radial)	1.0000 ppm	N/A	1.0000 ppm
Ca 373.690 {90} (Radial)	N/A	N/A	N/A
Mg 279.079 {121} (Radial)	1.0000 ppm	N/A	N/A
K 766.490 {44} (Radial)	1.0000 ppm	N/A	N/A
Na 589.592 {57} (Radial)	1.0000 ppm	N/A	1.0000 ppm
Na 818.326 {41} (Radial)	N/A	N/A	N/A
Sb 206.833 {463} (Axial)	0.0100 ppm	0.5000 ppm	1.0000 ppm
Be 313.042 {108} (Radial)	0.0020 ppm	0.5000 ppm	1.0000 ppm
Co 228.616 {447} (Axial)	0.0100 ppm	0.5000 ppm	1.0000 ppm
Tl 190.856 {477} (Axial)	0.0100 ppm	0.5000 ppm	1.0000 ppm
Mn 257.610 {131} (Axial)	0.0100 ppm	0.5000 ppm	1.0000 ppm
V 292.402 {115} (Radial)	0.0200 ppm	0.5000 ppm	1.0000 ppm
Ti 334.941 {101} (Radial)	0.0500 ppm	0.5000 ppm	1.0000 ppm
Mo 202.030 {467} (Axial)	0.0050 ppm	0.5000 ppm	1.0000 ppm
B 249.678 {135} (Radial)	0.0500 ppm	N/A	1.0000 ppm
Sr 421.552 {80} (Radial)	0.0100 ppm	0.5000 ppm	1.0000 ppm
Si 251.611 {134} (Axial)	0.0500 ppm	N/A	1.0000 ppm
Sn 189.989 {477} (Axial)	0.0500 ppm	0.5000 ppm	1.0000 ppm
S 182.034 {485} (Axial)	1.0000 ppm	N/A	1.0000 ppm
Ce 535.353 {63} (Radial)	N/A	N/A	N/A

	STD4 15I21305	STD5 15I21304	STD8
As 189.042 {478} (Axial)	2.0000 ppm	N/A	N/A
Ba 233.527 {445} (Axial)	2.0000 ppm	10.0000 ppm	N/A
Cd 228.802 {447} (Axial)	N/A	N/A	N/A
Cr 267.716 {126} (Axial)	2.0000 ppm	N/A	N/A
Pb 220.353 {453} (Axial)	N/A	N/A	N/A
Se 196.090 {472} (Axial)	N/A	N/A	N/A
Ag 328.068 {103} (Axial)	N/A	N/A	N/A
Cu 324.754 {104} (Radial)	2.0000 ppm	N/A	N/A
Ni 231.604 {446} (Axial)	2.0000 ppm	N/A	N/A
Zn 206.200 {463} (Axial)	2.0000 ppm	N/A	N/A
Al 308.215 {109} (Radial)	2.0000 ppm	10.0000 ppm	250.0000 ppm
Fe 259.940 {130} (Radial)	2.0000 ppm	10.0000 ppm	N/A
Fe 271.441 {124} (Radial)	N/A	10.0000 ppm	N/A
Li 670.784 {50} (Radial)	N/A	N/A	N/A
Ca 317.933 {106} (Radial)	2.0000 ppm	10.0000 ppm	N/A
Ca 373.690 {90} (Radial)	N/A	10.0000 ppm	250.0000 ppm
Mg 279.079 {121} (Radial)	N/A	10.0000 ppm	250.0000 ppm
K 766.490 {44} (Radial)	N/A	10.0000 ppm	N/A

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	STD4 15I21305	STD5 15I21304	STD8
Na 589.592 {57} (Radial)	2.0000 ppm	10.0000 ppm	N/A
Na 818.326 {41} (Radial)	N/A	10.0000 ppm	250.0000 ppm
Sb 206.833 {463} (Axial)	N/A	N/A	N/A
Be 313.042 {108} (Radial)	2.0000 ppm	N/A	N/A
Co 228.616 {447} (Axial)	2.0000 ppm	N/A	N/A
Tl 190.856 {477} (Axial)	N/A	N/A	N/A
Mn 257.610 {131} (Axial)	2.0000 ppm	N/A	N/A
V 292.402 {115} (Radial)	2.0000 ppm	N/A	N/A
Ti 334.941 {101} (Radial)	2.0000 ppm	N/A	N/A
Mo 202.030 {467} (Axial)	2.0000 ppm	N/A	N/A
B 249.678 {135} (Radial)	2.0000 ppm	N/A	N/A
Sr 421.552 {80} (Radial)	2.0000 ppm	N/A	N/A
Si 251.611 {134} (Axial)	2.0000 ppm	10.0000 ppm	N/A
Sn 189.989 {477} (Axial)	2.0000 ppm	N/A	N/A
S 182.034 {485} (Axial)	2.0000 ppm	10.0000 ppm	N/A
Ce 535.353 {63} (Radial)	N/A	N/A	N/A

	STD9	STD10	STD11
As 189.042 {478} (Axial)	N/A	N/A	N/A
Ba 233.527 {445} (Axial)	N/A	N/A	N/A
Cd 228.802 {447} (Axial)	N/A	N/A	N/A
Cr 267.716 {126} (Axial)	N/A	N/A	N/A
Pb 220.353 {453} (Axial)	N/A	N/A	N/A
Se 196.090 {472} (Axial)	N/A	N/A	N/A
Ag 328.068 {103} (Axial)	N/A	N/A	N/A
Cu 324.754 {104} (Radial)	N/A	N/A	N/A
Ni 231.604 {446} (Axial)	N/A	N/A	N/A
Zn 206.200 {463} (Axial)	N/A	N/A	N/A
Al 308.215 {109} (Radial)	N/A	500.0000 ppm	N/A
Fe 259.940 {130} (Radial)	N/A	N/A	N/A
Fe 271.441 {124} (Radial)	100.0000 ppm	N/A	N/A
Li 670.784 {50} (Radial)	N/A	N/A	N/A
Ca 317.933 {106} (Radial)	N/A	N/A	N/A
Ca 373.690 {90} (Radial)	N/A	500.0000 ppm	N/A
Mg 279.079 {121} (Radial)	N/A	N/A	500.0000 ppm
K 766.490 {44} (Radial)	50.0000 ppm	N/A	N/A
Na 589.592 {57} (Radial)	N/A	N/A	N/A
Na 818.326 {41} (Radial)	N/A	N/A	500.0000 ppm
Sb 206.833 {463} (Axial)	N/A	N/A	N/A
Be 313.042 {108} (Radial)	N/A	N/A	N/A
Co 228.616 {447} (Axial)	N/A	N/A	N/A
Tl 190.856 {477} (Axial)	N/A	N/A	N/A
Mn 257.610 {131} (Axial)	N/A	N/A	N/A
V 292.402 {115} (Radial)	N/A	N/A	N/A
Ti 334.941 {101} (Radial)	N/A	N/A	N/A
Mo 202.030 {467} (Axial)	N/A	N/A	N/A
B 249.678 {135} (Radial)	N/A	N/A	N/A
Sr 421.552 {80} (Radial)	N/A	N/A	N/A
Si 251.611 {134} (Axial)	N/A	N/A	N/A
Sn 189.989 {477} (Axial)	N/A	N/A	N/A
S 182.034 {485} (Axial)	50.0000 ppm	N/A	N/A
Ce 535.353 {63} (Radial)	10.0000 ppm	N/A	N/A

	STD12
As 189.042 {478} (Axial)	N/A

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	STD12
Ba 233.527 {445} (Axial)	N/A
Cd 228.802 {447} (Axial)	N/A
Cr 267.716 {126} (Axial)	N/A
Pb 220.353 {453} (Axial)	N/A
Se 196.090 {472} (Axial)	N/A
Ag 328.068 {103} (Axial)	N/A
Cu 324.754 {104} (Radial)	N/A
Ni 231.604 {446} (Axial)	N/A
Zn 206.200 {463} (Axial)	N/A
Al 308.215 {109} (Radial)	N/A
Fe 259.940 {130} (Radial)	N/A
Fe 271.441 {124} (Radial)	200.0000 ppm
Li 670.784 {50} (Radial)	N/A
Ca 317.933 {106} (Radial)	N/A
Ca 373.690 {90} (Radial)	N/A
Mg 279.079 {121} (Radial)	N/A
K 766.490 {44} (Radial)	100.0000 ppm
Na 589.592 {57} (Radial)	N/A
Na 818.326 {41} (Radial)	N/A
Sb 206.833 {463} (Axial)	N/A
Be 313.042 {108} (Radial)	N/A
Co 228.616 {447} (Axial)	N/A
Tl 190.856 {477} (Axial)	N/A
Mn 257.610 {131} (Axial)	N/A
V 292.402 {115} (Radial)	N/A
Ti 334.941 {101} (Radial)	N/A
Mo 202.030 {467} (Axial)	N/A
B 249.678 {135} (Radial)	N/A
Sr 421.552 {80} (Radial)	N/A
Si 251.611 {134} (Axial)	N/A
Sn 189.989 {477} (Axial)	N/A
S 182.034 {485} (Axial)	100.0000 ppm
Ce 535.353 {63} (Radial)	N/A

Symbol	Wavelength (nm) / Order	Fit Type	Weighting	Forcing
As	189.042 {478}	Linear	None	Blank
Ba	233.527 {445}	Linear	None	Blank
Cd	228.802 {447}	Linear	None	Blank
Cr	267.716 {126}	Linear	None	Blank
Pb	220.353 {453}	Linear	None	Blank
Se	196.090 {472}	Linear	None	Blank
Ag	328.068 {103}	Linear	None	Blank
Cu	324.754 {104}	Linear	None	Blank
Ni	231.604 {446}	Linear	None	Blank
Zn	206.200 {463}	Linear	None	Blank
Al	308.215 {109}	Linear	None	Blank
Fe	259.940 {130}	Linear	None	Blank
Fe	271.441 {124}	Linear	None	Blank
Li	670.784 {50}	Linear	None	Blank
Ca	317.933 {106}	Linear	None	Blank
Ca	373.690 {90}	Linear	None	Blank
Mg	279.079 {121}	Linear	None	Blank
K	766.490 {44}	Linear	None	Blank
Na	589.592 {57}	Linear	None	Blank

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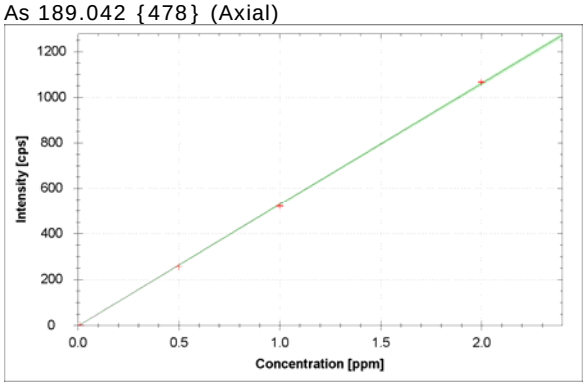
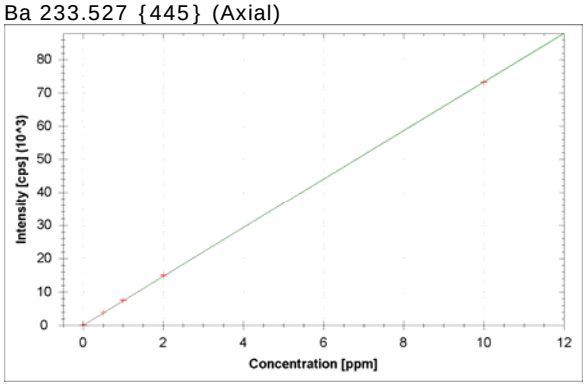
Symbol	Wavelength (nm) / Order	Fit Type	Weighting	Forcing
Na	818.326 {41}	Linear	None	Blank
Sb	206.833 {463}	Linear	None	Blank
Be	313.042 {108}	Linear	None	Blank
Co	228.616 {447}	Linear	None	Blank
Tl	190.856 {477}	Linear	None	Blank
Mn	257.610 {131}	Linear	None	Blank
V	292.402 {115}	Linear	None	Blank
Ti	334.941 {101}	Linear	None	Blank
Mo	202.030 {467}	Linear	None	Blank
B	249.678 {135}	Linear	None	Blank
Sr	421.552 {80}	Linear	None	Blank
Si	251.611 {134}	Linear	None	Blank
Sn	189.989 {477}	Linear	None	Blank
S	182.034 {485}	Linear	None	Blank
In	230.606 {446}	Linear	None	Blank
Y	360.073 {94}	Linear	None	Blank
Y	360.073 {94}	Linear	None	Blank
Y	224.306 {450}	Linear	None	Blank
Ce	535.353 {63}	Linear	None	Blank

As 189.042 {478} (Axial)



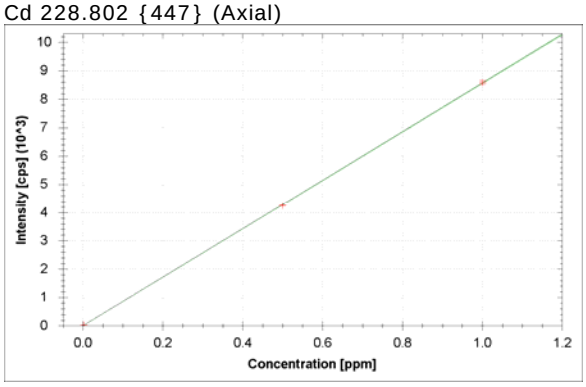
f(x) = 531.1081*x + -2.7532
R^2 = 0.9998
BEC = -0.005 ppm
LoD = 0.0061 ppm

Ba 233.527 {445} (Axial)



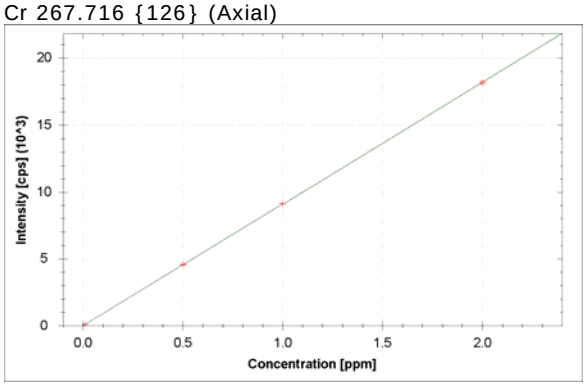
f(x) = 7331.2672*x + 3.6142
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0004 ppm

Cd 228.802 {447} (Axial)



f(x) = 8565.2074*x + 1.6643
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0004 ppm

Cr 267.716 {126} (Axial)



f(x) = 9093.5984*x + 2.3972
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0006 ppm

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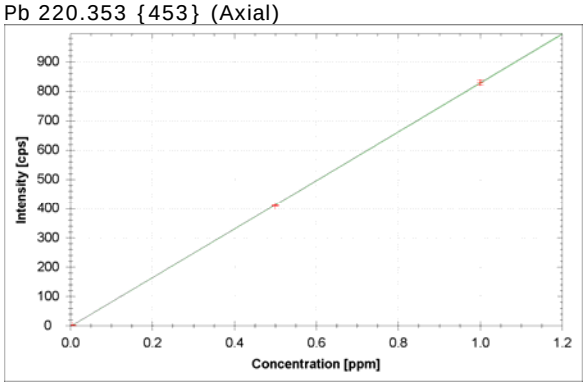
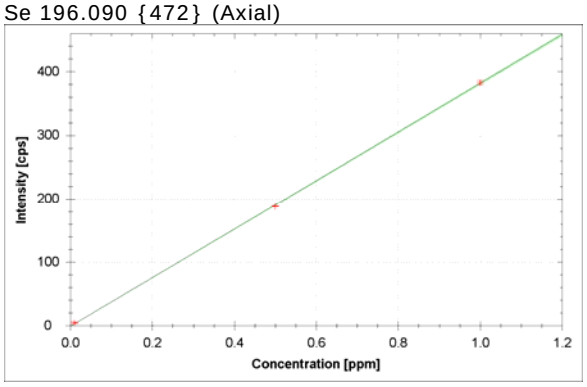
Pb 220.353 {453} (Axial)



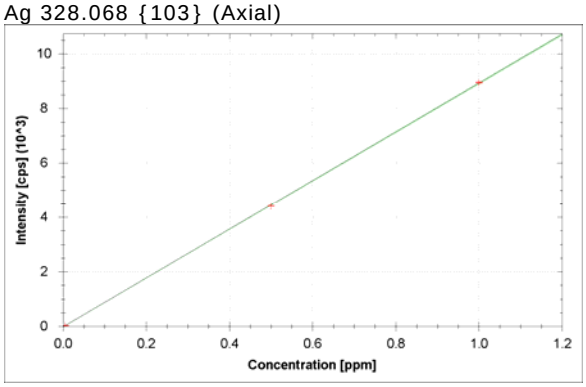
f(x) = 830.4285*x + -2.3173
R^2 = 1.0000
BEC = -0.003 ppm
LoD = 0.0041 ppm

Se 196.090 {472} (Axial)



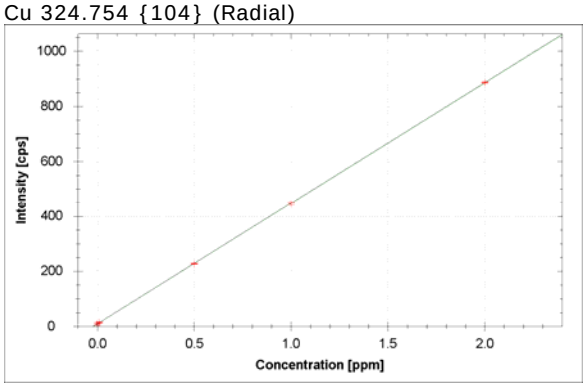
f(x) = 382.4483*x + -0.7427
R^2 = 0.9999
BEC = -0.002 ppm
LoD = 0.0024 ppm

Ag 328.068 {103} (Axial)



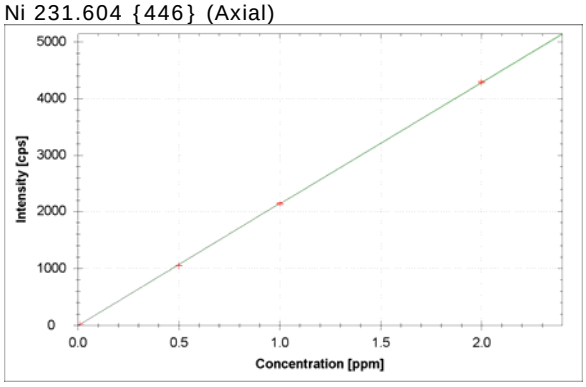
f(x) = 8946.6531*x + -18.0456
R^2 = 1.0000
BEC = -0.002 ppm
LoD = 0.0006 ppm

Cu 324.754 {104} (Radial)



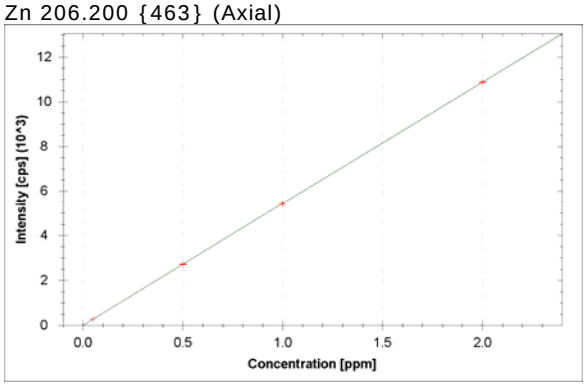
f(x) = 438.3112*x + 9.1077
R^2 = 1.0000
BEC = 0.021 ppm
LoD = 0.0268 ppm

Ni 231.604 {446} (Axial)



f(x) = 2141.8931*x + -4.1321
R^2 = 1.0000
BEC = -0.002 ppm
LoD = 0.0003 ppm

Zn 206.200 {463} (Axial)



f(x) = 5436.8220*x + 1.2095
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0006 ppm

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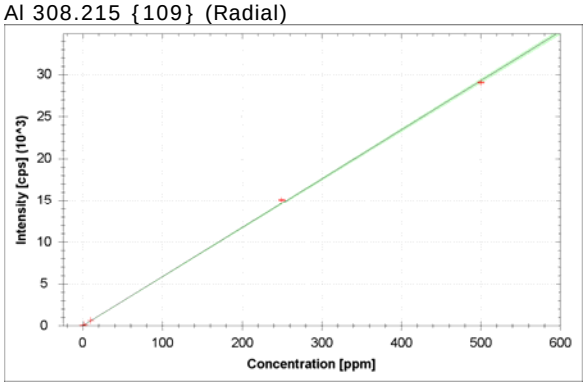
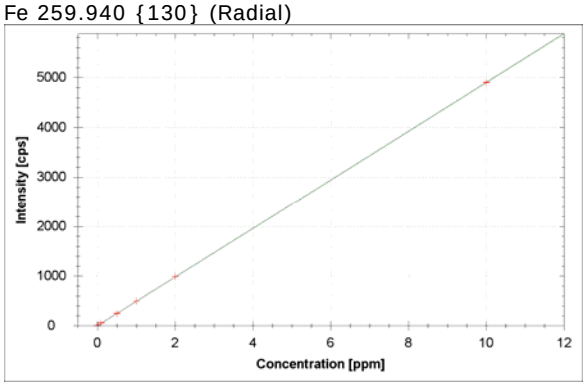
Al 308.215 {109} (Radial)



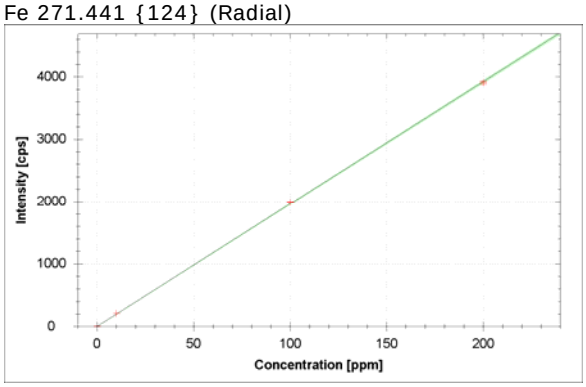
f(x) = 58.5000*x + 11.8968
R^2 = 0.9997
BEC = 0.203 ppm
LoD = 0.1261 ppm

Fe 259.940 {130} (Radial)



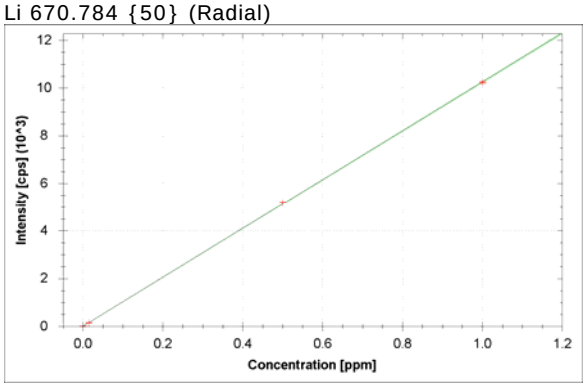
f(x) = 490.0999*x + 0.7670
R^2 = 1.0000
BEC = 0.002 ppm
LoD = 0.0068 ppm

Fe 271.441 {124} (Radial)



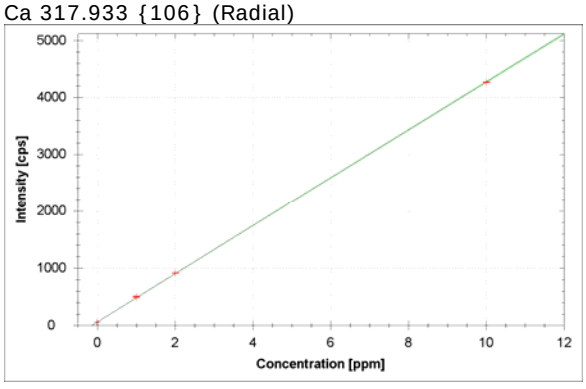
f(x) = 19.6018*x + 1.2227
R^2 = 0.9999
BEC = 0.062 ppm
LoD = 0.4016 ppm

Li 670.784 {50} (Radial)



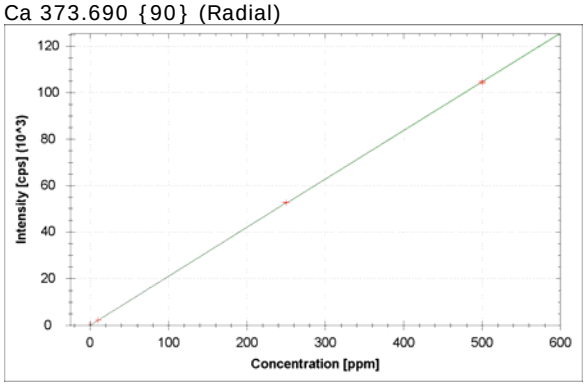
f(x) = 10243.8828*x + 8.3751
R^2 = 1.0000
BEC = 0.001 ppm
LoD = 0.0032 ppm

Ca 317.933 {106} (Radial)



f(x) = 421.4409*x + 59.4416
R^2 = 0.9999
BEC = 0.141 ppm
LoD = 0.0113 ppm

Ca 373.690 {90} (Radial)



f(x) = 209.2674*x + 22.5130
R^2 = 1.0000
BEC = 0.108 ppm
LoD = 0.0198 ppm

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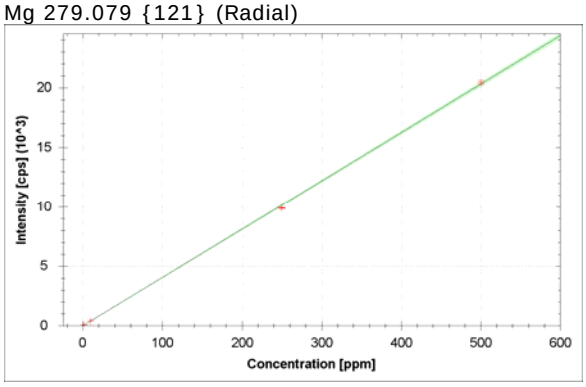
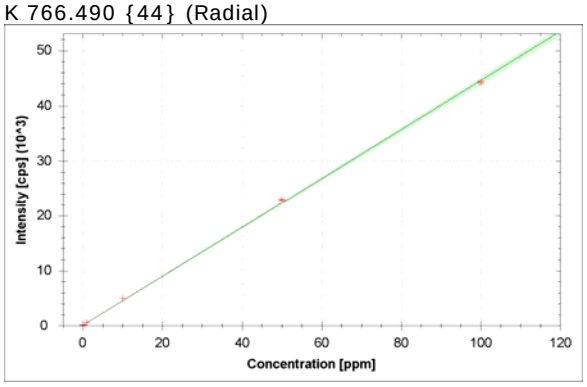
Mg 279.079 {121} (Radial)



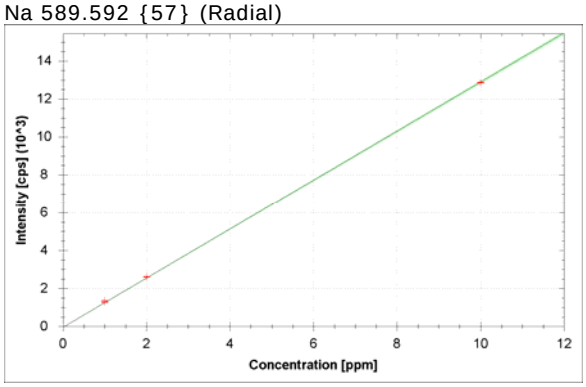
f(x) = 40.6062*x + 0.2751
R^2 = 0.9997
BEC = 0.007 ppm
LoD = 0.1755 ppm

K 766.490 {44} (Radial)



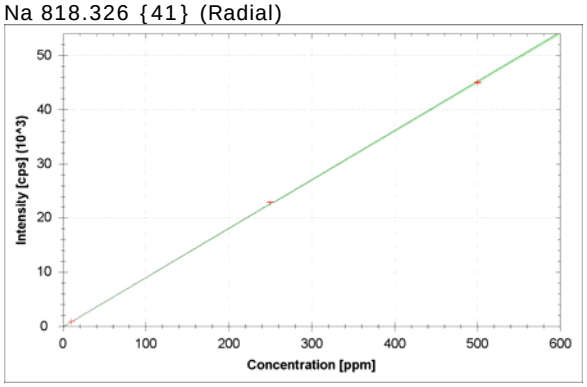
f(x) = 444.9488*x + 92.9177
R^2 = 0.9995
BEC = 0.209 ppm
LoD = 0.0952 ppm

Na 589.592 {57} (Radial)



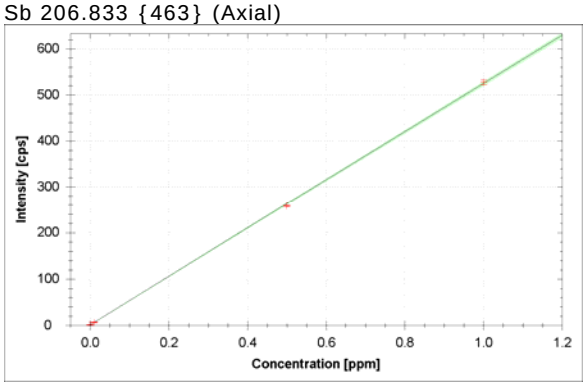
f(x) = 1293.8418*x + -45.5834
R^2 = 0.9999
BEC = -0.035 ppm
LoD = 0.0330 ppm

Na 818.326 {41} (Radial)



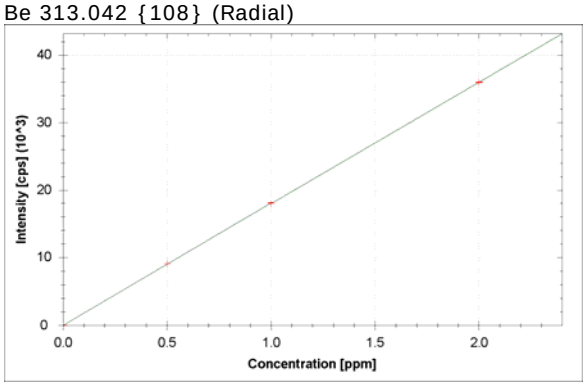
f(x) = 90.5015*x + -85.8398
R^2 = 0.9999
BEC = -0.948 ppm
LoD = 0.2244 ppm

Sb 206.833 {463} (Axial)



f(x) = 523.7637*x + 1.1278
R^2 = 0.9998
BEC = 0.002 ppm
LoD = 0.0038 ppm

Be 313.042 {108} (Radial)



f(x) = 17995.9312*x + -3.7720
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0002 ppm

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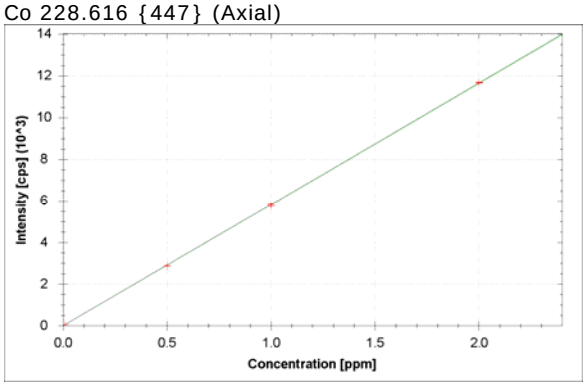
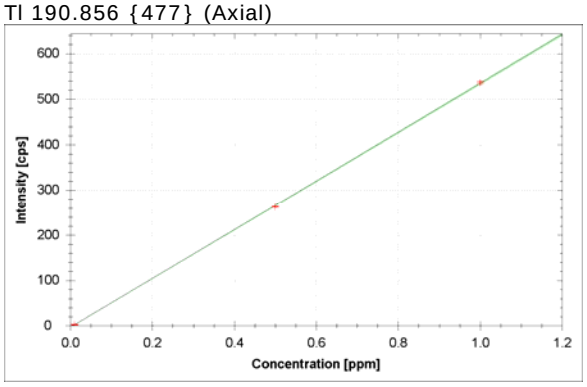
Co 228.616 {447} (Axial)



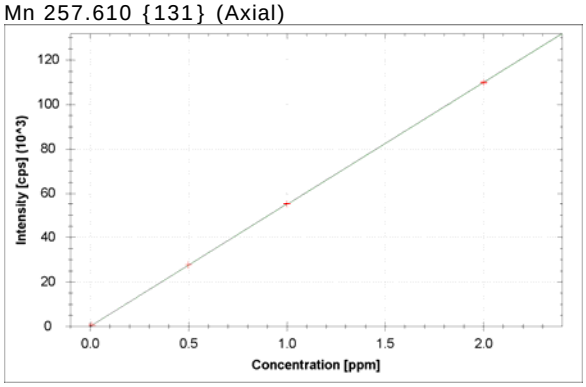
f(x) = 5825.4350*x + -1.8807
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0001 ppm

Tl 190.856 {477} (Axial)



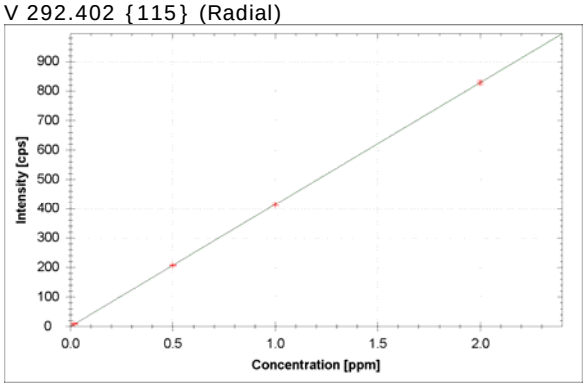
f(x) = 538.1448*x + -3.1135
R^2 = 0.9999
BEC = -0.006 ppm
LoD = 0.0040 ppm

Mn 257.610 {131} (Axial)



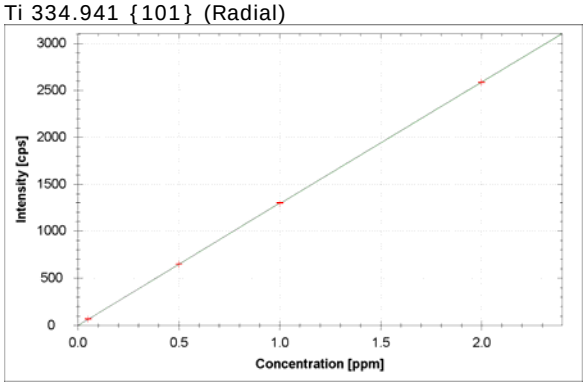
f(x) = 54945.4727*x + 17.6345
R^2 = 1.0000
BEC = 0.000 ppm
LoD = 0.0002 ppm

V 292.402 {115} (Radial)



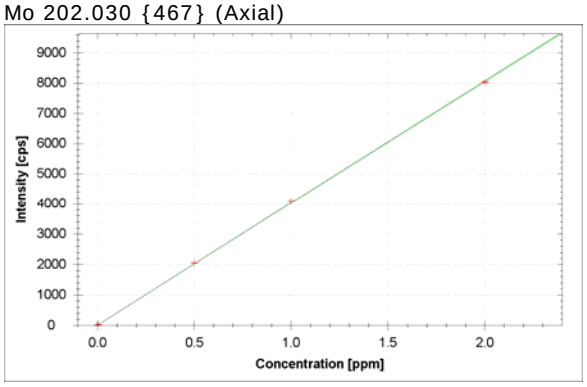
f(x) = 414.2952*x + -0.2080
R^2 = 1.0000
BEC = -0.001 ppm
LoD = 0.0215 ppm

Ti 334.941 {101} (Radial)



f(x) = 1294.3493*x + -1.0008
R^2 = 1.0000
BEC = -0.001 ppm
LoD = 0.0009 ppm

Mo 202.030 {467} (Axial)



f(x) = 4029.4200*x + 3.3915
R^2 = 0.9999
BEC = 0.001 ppm
LoD = 0.0004 ppm

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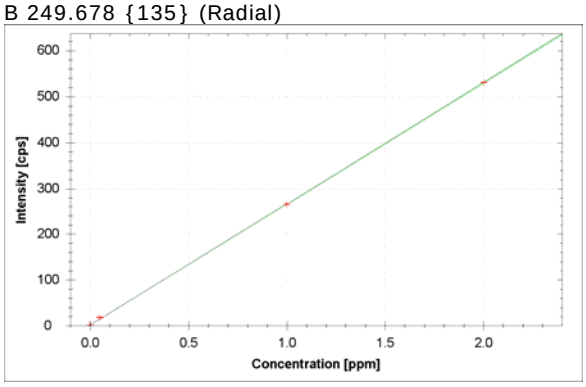
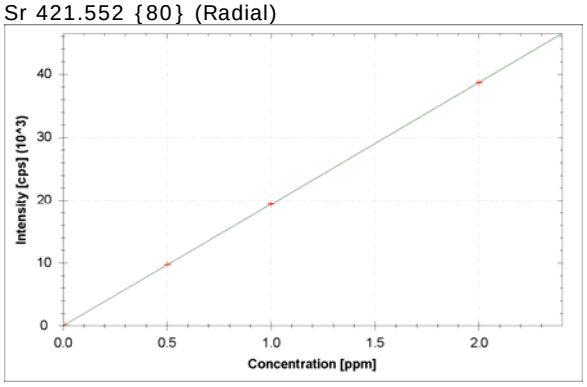
B 249.678 {135} (Radial)



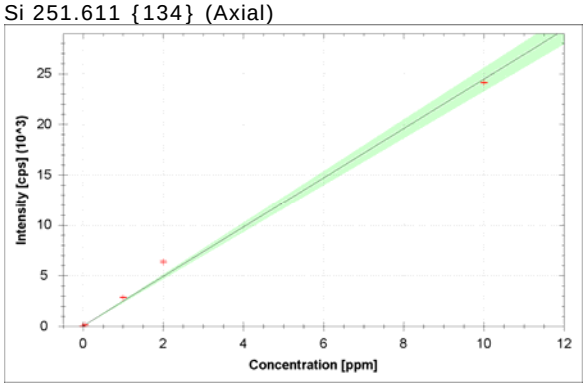
f(x) = 264.4932*x + 1.4332
R^2 = 0.9999
BEC = 0.005 ppm
LoD = 0.0016 ppm

Sr 421.552 {80} (Radial)



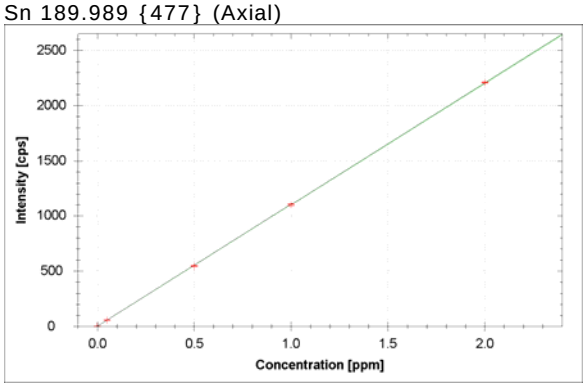
f(x) = 19365.2897*x + -26.0489
R^2 = 1.0000
BEC = -0.001 ppm
LoD = 0.0003 ppm

Si 251.611 {134} (Axial)



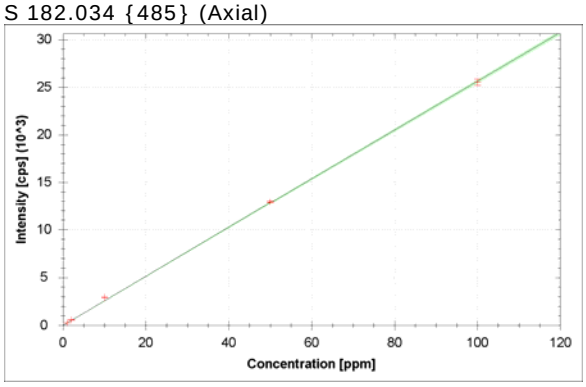
f(x) = 2442.1686*x + 39.9686
R^2 = 0.9941
BEC = 0.016 ppm
LoD = 0.0037 ppm

Sn 189.989 {477} (Axial)



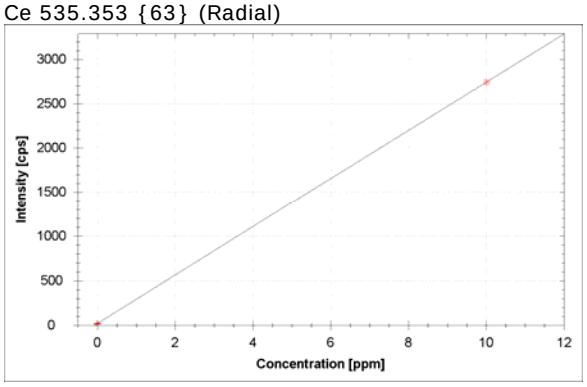
f(x) = 1100.7533*x + 1.9707
R^2 = 1.0000
BEC = 0.002 ppm
LoD = 0.0005 ppm

S 182.034 {485} (Axial)



f(x) = 256.2720*x + -0.6792
R^2 = 0.9997
BEC = -0.003 ppm
LoD = 0.0048 ppm

Ce 535.353 {63} (Radial)



f(x) = 272.1845*x + 20.4722
R^2 = 1.0000
BEC = 0.075 ppm
LoD = 0.0448 ppm

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Standard readbacks

	STD1 15I21316	STD1 15I21316
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	0.0073 ppm	0.0100 ppm
Ba 233.527 {445} (Axial)	0.0054 ppm	0.0050 ppm
Cd 228.802 {447} (Axial)	0.0021 ppm	0.0020 ppm
Cr 267.716 {126} (Axial)	0.0105 ppm	0.0100 ppm
Pb 220.353 {453} (Axial)	0.0049 ppm	0.0050 ppm
Se 196.090 {472} (Axial)	0.0135 ppm	0.0100 ppm
Ag 328.068 {103} (Axial)	0.0056 ppm	0.0050 ppm
Cu 324.754 {104} (Radial)	0.0105 ppm	0.0100 ppm
Ni 231.604 {446} (Axial)	0.0104 ppm	0.0100 ppm
Zn 206.200 {463} (Axial)	0.0528 ppm	0.0500 ppm
Al 308.215 {109} (Radial)	0.2057 ppm	0.2000 ppm
Fe 259.940 {130} (Radial)	0.1103 ppm	0.1000 ppm
Fe 271.441 {124} (Radial)	N/A	N/A
Li 670.784 {50} (Radial)	0.0139 ppm	0.0150 ppm
Ca 317.933 {106} (Radial)	1.0605 ppm	1.0000 ppm
Ca 373.690 {90} (Radial)	N/A	N/A
Mg 279.079 {121} (Radial)	1.0996 ppm	1.0000 ppm
K 766.490 {44} (Radial)	1.1728 ppm	1.0000 ppm
Na 589.592 {57} (Radial)	1.0819 ppm	1.0000 ppm
Na 818.326 {41} (Radial)	N/A	N/A
Sb 206.833 {463} (Axial)	0.0099 ppm	0.0100 ppm
Be 313.042 {108} (Radial)	0.0021 ppm	0.0020 ppm
Co 228.616 {447} (Axial)	0.0099 ppm	0.0100 ppm
Tl 190.856 {477} (Axial)	0.0100 ppm	0.0100 ppm
Mn 257.610 {131} (Axial)	0.0107 ppm	0.0100 ppm
V 292.402 {115} (Radial)	0.0220 ppm	0.0200 ppm
Ti 334.941 {101} (Radial)	0.0539 ppm	0.0500 ppm
Mo 202.030 {467} (Axial)	0.0052 ppm	0.0050 ppm
B 249.678 {135} (Radial)	0.0631 ppm	0.0500 ppm
Sr 421.552 {80} (Radial)	0.0104 ppm	0.0100 ppm
Si 251.611 {134} (Axial)	0.0494 ppm	0.0500 ppm
Sn 189.989 {477} (Axial)	0.0504 ppm	0.0500 ppm
S 182.034 {485} (Axial)	1.0717 ppm	1.0000 ppm
In 230.606 {446} (Axial)	98.4271 %	
Y 360.073 {94} (Radial)	100.0843 %	
Y 360.073 {94} (Axial)	99.2227 %	
Y 224.306 {450} (Axial)	99.7974 %	
Ce 535.353 {63} (Radial)	N/A	N/A

	STD2 15G21064	STD2 15G21064
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	0.4873 ppm	0.5000 ppm
Ba 233.527 {445} (Axial)	0.5146 ppm	0.5000 ppm
Cd 228.802 {447} (Axial)	0.4959 ppm	0.5000 ppm
Cr 267.716 {126} (Axial)	0.5014 ppm	0.5000 ppm
Pb 220.353 {453} (Axial)	0.4968 ppm	0.5000 ppm
Se 196.090 {472} (Axial)	0.4941 ppm	0.5000 ppm
Ag 328.068 {103} (Axial)	0.4952 ppm	0.5000 ppm
Cu 324.754 {104} (Radial)	0.4973 ppm	0.5000 ppm
Ni 231.604 {446} (Axial)	0.4916 ppm	0.5000 ppm
Zn 206.200 {463} (Axial)	0.4998 ppm	0.5000 ppm
Al 308.215 {109} (Radial)	N/A	N/A
Fe 259.940 {130} (Radial)	0.5051 ppm	0.5000 ppm

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	STD2 15G21064	STD2 15G21064
Fe 271.441 {124} (Radial)	N/A	N/A
Li 670.784 {50} (Radial)	0.5048 ppm	0.5000 ppm
Ca 317.933 {106} (Radial)	N/A	N/A
Ca 373.690 {90} (Radial)	N/A	N/A
Mg 279.079 {121} (Radial)	N/A	N/A
K 766.490 {44} (Radial)	N/A	N/A
Na 589.592 {57} (Radial)	N/A	N/A
Na 818.326 {41} (Radial)	N/A	N/A
Sb 206.833 {463} (Axial)	0.4902 ppm	0.5000 ppm
Be 313.042 {108} (Radial)	0.5029 ppm	0.5000 ppm
Co 228.616 {447} (Axial)	0.4940 ppm	0.5000 ppm
Tl 190.856 {477} (Axial)	0.4938 ppm	0.5000 ppm
Mn 257.610 {131} (Axial)	0.5035 ppm	0.5000 ppm
V 292.402 {115} (Radial)	0.4998 ppm	0.5000 ppm
Ti 334.941 {101} (Radial)	0.5016 ppm	0.5000 ppm
Mo 202.030 {467} (Axial)	0.5094 ppm	0.5000 ppm
B 249.678 {135} (Radial)	N/A	N/A
Sr 421.552 {80} (Radial)	0.5030 ppm	0.5000 ppm
Si 251.611 {134} (Axial)	N/A	N/A
Sn 189.989 {477} (Axial)	0.4927 ppm	0.5000 ppm
S 182.034 {485} (Axial)	N/A	N/A
In 230.606 {446} (Axial)	99.8579 %	
Y 360.073 {94} (Radial)	102.0571 %	
Y 360.073 {94} (Axial)	101.9939 %	
Y 224.306 {450} (Axial)	102.2902 %	
Ce 535.353 {63} (Radial)	N/A	N/A

	STD3 15H06986	STD3 15H06986
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	0.9837 ppm	1.0000 ppm
Ba 233.527 {445} (Axial)	1.0273 ppm	1.0000 ppm
Cd 228.802 {447} (Axial)	1.0020 ppm	1.0000 ppm
Cr 267.716 {126} (Axial)	1.0040 ppm	1.0000 ppm
Pb 220.353 {453} (Axial)	1.0016 ppm	1.0000 ppm
Se 196.090 {472} (Axial)	1.0029 ppm	1.0000 ppm
Ag 328.068 {103} (Axial)	1.0024 ppm	1.0000 ppm
Cu 324.754 {104} (Radial)	0.9983 ppm	1.0000 ppm
Ni 231.604 {446} (Axial)	0.9976 ppm	1.0000 ppm
Zn 206.200 {463} (Axial)	0.9985 ppm	1.0000 ppm
Al 308.215 {109} (Radial)	N/A	N/A
Fe 259.940 {130} (Radial)	1.0108 ppm	1.0000 ppm
Fe 271.441 {124} (Radial)	N/A	N/A
Li 670.784 {50} (Radial)	0.9976 ppm	1.0000 ppm
Ca 317.933 {106} (Radial)	1.0183 ppm	1.0000 ppm
Ca 373.690 {90} (Radial)	N/A	N/A
Mg 279.079 {121} (Radial)	N/A	N/A
K 766.490 {44} (Radial)	N/A	N/A
Na 589.592 {57} (Radial)	1.0170 ppm	1.0000 ppm
Na 818.326 {41} (Radial)	N/A	N/A
Sb 206.833 {463} (Axial)	1.0049 ppm	1.0000 ppm
Be 313.042 {108} (Radial)	0.9984 ppm	1.0000 ppm
Co 228.616 {447} (Axial)	0.9943 ppm	1.0000 ppm
Tl 190.856 {477} (Axial)	1.0031 ppm	1.0000 ppm
Mn 257.610 {131} (Axial)	1.0015 ppm	1.0000 ppm
V 292.402 {115} (Radial)	0.9996 ppm	1.0000 ppm

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	STD3 15H06986	STD3 15H06986
Ti 334.941 {101} (Radial)	1.0005 ppm	1.0000 ppm
Mo 202.030 {467} (Axial)	1.0116 ppm	1.0000 ppm
B 249.678 {135} (Radial)	0.9978 ppm	1.0000 ppm
Sr 421.552 {80} (Radial)	1.0014 ppm	1.0000 ppm
Si 251.611 {134} (Axial)	1.1572 ppm	1.0000 ppm
Sn 189.989 {477} (Axial)	0.9944 ppm	1.0000 ppm
S 182.034 {485} (Axial)	1.0811 ppm	1.0000 ppm
In 230.606 {446} (Axial)	99.6744 %	
Y 360.073 {94} (Radial)	104.8167 %	
Y 360.073 {94} (Axial)	102.0520 %	
Y 224.306 {450} (Axial)	102.9397 %	
Ce 535.353 {63} (Radial)	N/A	N/A

	STD4 15I21305	STD4 15I21305
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	2.0114 ppm	2.0000 ppm
Ba 233.527 {445} (Axial)	2.0411 ppm	2.0000 ppm
Cd 228.802 {447} (Axial)	N/A	N/A
Cr 267.716 {126} (Axial)	1.9977 ppm	2.0000 ppm
Pb 220.353 {453} (Axial)	N/A	N/A
Se 196.090 {472} (Axial)	N/A	N/A
Ag 328.068 {103} (Axial)	N/A	N/A
Cu 324.754 {104} (Radial)	2.0015 ppm	2.0000 ppm
Ni 231.604 {446} (Axial)	2.0033 ppm	2.0000 ppm
Zn 206.200 {463} (Axial)	2.0008 ppm	2.0000 ppm
Al 308.215 {109} (Radial)	2.1480 ppm	2.0000 ppm
Fe 259.940 {130} (Radial)	2.0168 ppm	2.0000 ppm
Fe 271.441 {124} (Radial)	N/A	N/A
Li 670.784 {50} (Radial)	N/A	N/A
Ca 317.933 {106} (Radial)	2.0313 ppm	2.0000 ppm
Ca 373.690 {90} (Radial)	N/A	N/A
Mg 279.079 {121} (Radial)	N/A	N/A
K 766.490 {44} (Radial)	N/A	N/A
Na 589.592 {57} (Radial)	2.0467 ppm	2.0000 ppm
Na 818.326 {41} (Radial)	N/A	N/A
Sb 206.833 {463} (Axial)	N/A	N/A
Be 313.042 {108} (Radial)	2.0001 ppm	2.0000 ppm
Co 228.616 {447} (Axial)	2.0043 ppm	2.0000 ppm
Tl 190.856 {477} (Axial)	N/A	N/A
Mn 257.610 {131} (Axial)	1.9984 ppm	2.0000 ppm
V 292.402 {115} (Radial)	2.0002 ppm	2.0000 ppm
Ti 334.941 {101} (Radial)	1.9993 ppm	2.0000 ppm
Mo 202.030 {467} (Axial)	1.9919 ppm	2.0000 ppm
B 249.678 {135} (Radial)	2.0008 ppm	2.0000 ppm
Sr 421.552 {80} (Radial)	1.9985 ppm	2.0000 ppm
Si 251.611 {134} (Axial)	2.5992 ppm	2.0000 ppm
Sn 189.989 {477} (Axial)	2.0046 ppm	2.0000 ppm
S 182.034 {485} (Axial)	2.2473 ppm	2.0000 ppm
In 230.606 {446} (Axial)	99.7818 %	
Y 360.073 {94} (Radial)	106.1438 %	
Y 360.073 {94} (Axial)	102.5449 %	
Y 224.306 {450} (Axial)	103.8883 %	
Ce 535.353 {63} (Radial)	N/A	N/A

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	STD5 15I21304	STD5 15I21304
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	N/A	N/A
Ba 233.527 {445} (Axial)	9.9883 ppm	10.0000 ppm
Cd 228.802 {447} (Axial)	N/A	N/A
Cr 267.716 {126} (Axial)	N/A	N/A
Pb 220.353 {453} (Axial)	N/A	N/A
Se 196.090 {472} (Axial)	N/A	N/A
Ag 328.068 {103} (Axial)	N/A	N/A
Cu 324.754 {104} (Radial)	N/A	N/A
Ni 231.604 {446} (Axial)	N/A	N/A
Zn 206.200 {463} (Axial)	N/A	N/A
Al 308.215 {109} (Radial)	10.3254 ppm	10.0000 ppm
Fe 259.940 {130} (Radial)	9.9952 ppm	10.0000 ppm
Fe 271.441 {124} (Radial)	10.6397 ppm	10.0000 ppm
Li 670.784 {50} (Radial)	N/A	N/A
Ca 317.933 {106} (Radial)	9.9859 ppm	10.0000 ppm
Ca 373.690 {90} (Radial)	10.5633 ppm	10.0000 ppm
Mg 279.079 {121} (Radial)	10.0692 ppm	10.0000 ppm
K 766.490 {44} (Radial)	10.9715 ppm	10.0000 ppm
Na 589.592 {57} (Radial)	9.9808 ppm	10.0000 ppm
Na 818.326 {41} (Radial)	10.6461 ppm	10.0000 ppm
Sb 206.833 {463} (Axial)	N/A	N/A
Be 313.042 {108} (Radial)	N/A	N/A
Co 228.616 {447} (Axial)	N/A	N/A
Tl 190.856 {477} (Axial)	N/A	N/A
Mn 257.610 {131} (Axial)	N/A	N/A
V 292.402 {115} (Radial)	N/A	N/A
Ti 334.941 {101} (Radial)	N/A	N/A
Mo 202.030 {467} (Axial)	N/A	N/A
B 249.678 {135} (Radial)	N/A	N/A
Sr 421.552 {80} (Radial)	N/A	N/A
Si 251.611 {134} (Axial)	9.8645 ppm	10.0000 ppm
Sn 189.989 {477} (Axial)	N/A	N/A
S 182.034 {485} (Axial)	11.4100 ppm	10.0000 ppm
In 230.606 {446} (Axial)	97.7754 %	
Y 360.073 {94} (Radial)	107.8093 %	
Y 360.073 {94} (Axial)	102.3870 %	
Y 224.306 {450} (Axial)	103.4379 %	
Ce 535.353 {63} (Radial)	N/A	N/A

	STD8	STD8
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	N/A	N/A
Ba 233.527 {445} (Axial)	N/A	N/A
Cd 228.802 {447} (Axial)	N/A	N/A
Cr 267.716 {126} (Axial)	N/A	N/A
Pb 220.353 {453} (Axial)	N/A	N/A
Se 196.090 {472} (Axial)	N/A	N/A
Ag 328.068 {103} (Axial)	N/A	N/A
Cu 324.754 {104} (Radial)	N/A	N/A
Ni 231.604 {446} (Axial)	N/A	N/A
Zn 206.200 {463} (Axial)	N/A	N/A
Al 308.215 {109} (Radial)	257.2234 ppm	250.0000 ppm
Fe 259.940 {130} (Radial)	N/A	N/A
Fe 271.441 {124} (Radial)	N/A	N/A

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	STD8	STD8
Li 670.784 {50} (Radial)	N/A	N/A
Ca 317.933 {106} (Radial)	N/A	N/A
Ca 373.690 {90} (Radial)	251.5249 ppm	250.0000 ppm
Mg 279.079 {121} (Radial)	243.5690 ppm	250.0000 ppm
K 766.490 {44} (Radial)	N/A	N/A
Na 589.592 {57} (Radial)	N/A	N/A
Na 818.326 {41} (Radial)	253.7278 ppm	250.0000 ppm
Sb 206.833 {463} (Axial)	N/A	N/A
Be 313.042 {108} (Radial)	N/A	N/A
Co 228.616 {447} (Axial)	N/A	N/A
Tl 190.856 {477} (Axial)	N/A	N/A
Mn 257.610 {131} (Axial)	N/A	N/A
V 292.402 {115} (Radial)	N/A	N/A
Ti 334.941 {101} (Radial)	N/A	N/A
Mo 202.030 {467} (Axial)	N/A	N/A
B 249.678 {135} (Radial)	N/A	N/A
Sr 421.552 {80} (Radial)	N/A	N/A
Si 251.611 {134} (Axial)	N/A	N/A
Sn 189.989 {477} (Axial)	N/A	N/A
S 182.034 {485} (Axial)	N/A	N/A
In 230.606 {446} (Axial)	76.9695 %	
Y 360.073 {94} (Radial)	104.8802 %	
Y 360.073 {94} (Axial)	90.6097 %	
Y 224.306 {450} (Axial)	92.1156 %	
Ce 535.353 {63} (Radial)	N/A	N/A

	STD9	STD9
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	N/A	N/A
Ba 233.527 {445} (Axial)	N/A	N/A
Cd 228.802 {447} (Axial)	N/A	N/A
Cr 267.716 {126} (Axial)	N/A	N/A
Pb 220.353 {453} (Axial)	N/A	N/A
Se 196.090 {472} (Axial)	N/A	N/A
Ag 328.068 {103} (Axial)	N/A	N/A
Cu 324.754 {104} (Radial)	N/A	N/A
Ni 231.604 {446} (Axial)	N/A	N/A
Zn 206.200 {463} (Axial)	N/A	N/A
Al 308.215 {109} (Radial)	N/A	N/A
Fe 259.940 {130} (Radial)	N/A	N/A
Fe 271.441 {124} (Radial)	101.4106 ppm	100.0000 ppm
Li 670.784 {50} (Radial)	N/A	N/A
Ca 317.933 {106} (Radial)	N/A	N/A
Ca 373.690 {90} (Radial)	N/A	N/A
Mg 279.079 {121} (Radial)	N/A	N/A
K 766.490 {44} (Radial)	51.4634 ppm	50.0000 ppm
Na 589.592 {57} (Radial)	N/A	N/A
Na 818.326 {41} (Radial)	N/A	N/A
Sb 206.833 {463} (Axial)	N/A	N/A
Be 313.042 {108} (Radial)	N/A	N/A
Co 228.616 {447} (Axial)	N/A	N/A
Tl 190.856 {477} (Axial)	N/A	N/A
Mn 257.610 {131} (Axial)	N/A	N/A
V 292.402 {115} (Radial)	N/A	N/A
Ti 334.941 {101} (Radial)	N/A	N/A

	STD9	STD9
Mo 202.030 {467} (Axial)	N/A	N/A
B 249.678 {135} (Radial)	N/A	N/A
Sr 421.552 {80} (Radial)	N/A	N/A
Si 251.611 {134} (Axial)	N/A	N/A
Sn 189.989 {477} (Axial)	N/A	N/A
S 182.034 {485} (Axial)	50.5002 ppm	50.0000 ppm
In 230.606 {446} (Axial)	93.7842 %	
Y 360.073 {94} (Radial)	105.7362 %	
Y 360.073 {94} (Axial)	99.2234 %	
Y 224.306 {450} (Axial)	99.7349 %	
Ce 535.353 {63} (Radial)	10.0000 ppm	10.0000 ppm

	STD10	STD10
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	N/A	N/A
Ba 233.527 {445} (Axial)	N/A	N/A
Cd 228.802 {447} (Axial)	N/A	N/A
Cr 267.716 {126} (Axial)	N/A	N/A
Pb 220.353 {453} (Axial)	N/A	N/A
Se 196.090 {472} (Axial)	N/A	N/A
Ag 328.068 {103} (Axial)	N/A	N/A
Cu 324.754 {104} (Radial)	N/A	N/A
Ni 231.604 {446} (Axial)	N/A	N/A
Zn 206.200 {463} (Axial)	N/A	N/A
Al 308.215 {109} (Radial)	496.3812 ppm	500.0000 ppm
Fe 259.940 {130} (Radial)	N/A	N/A
Fe 271.441 {124} (Radial)	N/A	N/A
Li 670.784 {50} (Radial)	N/A	N/A
Ca 317.933 {106} (Radial)	N/A	N/A
Ca 373.690 {90} (Radial)	499.2263 ppm	500.0000 ppm
Mg 279.079 {121} (Radial)	N/A	N/A
K 766.490 {44} (Radial)	N/A	N/A
Na 589.592 {57} (Radial)	N/A	N/A
Na 818.326 {41} (Radial)	N/A	N/A
Sb 206.833 {463} (Axial)	N/A	N/A
Be 313.042 {108} (Radial)	N/A	N/A
Co 228.616 {447} (Axial)	N/A	N/A
Tl 190.856 {477} (Axial)	N/A	N/A
Mn 257.610 {131} (Axial)	N/A	N/A
V 292.402 {115} (Radial)	N/A	N/A
Ti 334.941 {101} (Radial)	N/A	N/A
Mo 202.030 {467} (Axial)	N/A	N/A
B 249.678 {135} (Radial)	N/A	N/A
Sr 421.552 {80} (Radial)	N/A	N/A
Si 251.611 {134} (Axial)	N/A	N/A
Sn 189.989 {477} (Axial)	N/A	N/A
S 182.034 {485} (Axial)	N/A	N/A
In 230.606 {446} (Axial)	80.9897 %	
Y 360.073 {94} (Radial)	108.5895 %	
Y 360.073 {94} (Axial)	91.7510 %	
Y 224.306 {450} (Axial)	96.0440 %	
Ce 535.353 {63} (Radial)	N/A	N/A

	STD11	STD11
	Concentration average	Standard Concentration

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	STD11	STD11
As 189.042 {478} (Axial)	N/A	N/A
Ba 233.527 {445} (Axial)	N/A	N/A
Cd 228.802 {447} (Axial)	N/A	N/A
Cr 267.716 {126} (Axial)	N/A	N/A
Pb 220.353 {453} (Axial)	N/A	N/A
Se 196.090 {472} (Axial)	N/A	N/A
Ag 328.068 {103} (Axial)	N/A	N/A
Cu 324.754 {104} (Radial)	N/A	N/A
Ni 231.604 {446} (Axial)	N/A	N/A
Zn 206.200 {463} (Axial)	N/A	N/A
Al 308.215 {109} (Radial)	N/A	N/A
Fe 259.940 {130} (Radial)	N/A	N/A
Fe 271.441 {124} (Radial)	N/A	N/A
Li 670.784 {50} (Radial)	N/A	N/A
Ca 317.933 {106} (Radial)	N/A	N/A
Ca 373.690 {90} (Radial)	N/A	N/A
Mg 279.079 {121} (Radial)	503.2139 ppm	500.0000 ppm
K 766.490 {44} (Radial)	N/A	N/A
Na 589.592 {57} (Radial)	N/A	N/A
Na 818.326 {41} (Radial)	498.1232 ppm	500.0000 ppm
Sb 206.833 {463} (Axial)	N/A	N/A
Be 313.042 {108} (Radial)	N/A	N/A
Co 228.616 {447} (Axial)	N/A	N/A
Tl 190.856 {477} (Axial)	N/A	N/A
Mn 257.610 {131} (Axial)	N/A	N/A
V 292.402 {115} (Radial)	N/A	N/A
Ti 334.941 {101} (Radial)	N/A	N/A
Mo 202.030 {467} (Axial)	N/A	N/A
B 249.678 {135} (Radial)	N/A	N/A
Sr 421.552 {80} (Radial)	N/A	N/A
Si 251.611 {134} (Axial)	N/A	N/A
Sn 189.989 {477} (Axial)	N/A	N/A
S 182.034 {485} (Axial)	N/A	N/A
In 230.606 {446} (Axial)	77.6316 %	
Y 360.073 {94} (Radial)	106.2715 %	
Y 360.073 {94} (Axial)	88.4987 %	
Y 224.306 {450} (Axial)	89.2554 %	
Ce 535.353 {63} (Radial)	N/A	N/A

	STD12	STD12
	Concentration average	Standard Concentration
As 189.042 {478} (Axial)	N/A	N/A
Ba 233.527 {445} (Axial)	N/A	N/A
Cd 228.802 {447} (Axial)	N/A	N/A
Cr 267.716 {126} (Axial)	N/A	N/A
Pb 220.353 {453} (Axial)	N/A	N/A
Se 196.090 {472} (Axial)	N/A	N/A
Ag 328.068 {103} (Axial)	N/A	N/A
Cu 324.754 {104} (Radial)	N/A	N/A
Ni 231.604 {446} (Axial)	N/A	N/A
Zn 206.200 {463} (Axial)	N/A	N/A
Al 308.215 {109} (Radial)	N/A	N/A
Fe 259.940 {130} (Radial)	N/A	N/A
Fe 271.441 {124} (Radial)	199.2627 ppm	200.0000 ppm
Li 670.784 {50} (Radial)	N/A	N/A

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	STD12	STD12	
Ca 317.933 {106} (Radial)	N/A		N/A
Ca 373.690 {90} (Radial)	N/A		N/A
Mg 279.079 {121} (Radial)	N/A		N/A
K 766.490 {44} (Radial)	99.1694 ppm		100.0000 ppm
Na 589.592 {57} (Radial)	N/A		N/A
Na 818.326 {41} (Radial)	N/A		N/A
Sb 206.833 {463} (Axial)	N/A		N/A
Be 313.042 {108} (Radial)	N/A		N/A
Co 228.616 {447} (Axial)	N/A		N/A
Tl 190.856 {477} (Axial)	N/A		N/A
Mn 257.610 {131} (Axial)	N/A		N/A
V 292.402 {115} (Radial)	N/A		N/A
Ti 334.941 {101} (Radial)	N/A		N/A
Mo 202.030 {467} (Axial)	N/A		N/A
B 249.678 {135} (Radial)	N/A		N/A
Sr 421.552 {80} (Radial)	N/A		N/A
Si 251.611 {134} (Axial)	N/A		N/A
Sn 189.989 {477} (Axial)	N/A		N/A
S 182.034 {485} (Axial)	99.6024 ppm		100.0000 ppm
In 230.606 {446} (Axial)	91.1631 %		
Y 360.073 {94} (Radial)	106.5085 %		
Y 360.073 {94} (Axial)	98.6232 %		
Y 224.306 {450} (Axial)	99.1288 %		
Ce 535.353 {63} (Radial)	N/A		N/A

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Sample list

Label	Sample Type	Repeats	Start Time
INSTBLK	UNKNOWN	3	10/19/2015 8:33:10 AM
CALBLK	BLK	3	10/19/2015 8:36:21 AM
STD1 15I21316	STD	3	10/19/2015 8:39:31 AM
STD2 15G21064	STD	3	10/19/2015 8:42:39 AM
STD3 15H06986	STD	3	10/19/2015 8:45:32 AM
STD4 15I21305	STD	3	10/19/2015 8:48:19 AM
STD5 15I21304	STD	3	10/19/2015 8:51:04 AM
STD8	STD	3	10/19/2015 8:54:07 AM
STD9	STD	3	10/19/2015 8:57:21 AM
STD10	STD	3	10/19/2015 9:00:25 AM
STD11	STD	3	10/19/2015 9:03:40 AM
STD12	STD	3	10/19/2015 9:06:55 AM
ICV 15G22196	QC	3	10/19/2015 9:10:00 AM
ICB	QC	3	10/19/2015 9:12:45 AM
ICVLL 15I21316	QC	3	10/19/2015 9:15:53 AM
ICSA 15I21332	QC	3	10/19/2015 9:19:01 AM
ICSAB 15I21333	QC	3	10/19/2015 9:22:14 AM
ICSA2	QC	3	10/19/2015 9:25:10 AM
ICSA3	QC	3	10/19/2015 9:28:18 AM
Ce IEC	UNKNOWN	3	10/19/2015 9:31:33 AM
INSTBLK	UNKNOWN	3	10/19/2015 9:42:39 AM
BLANK WG822617	UNKNOWN	3	10/19/2015 9:45:47 AM
LCS WG822617	UNKNOWN	3	10/19/2015 9:48:57 AM
LCSD WG822617	UNKNOWN	3	10/19/2015 9:51:41 AM
zL794352-05 WG822617	UNKNOWN	3	10/19/2015 9:54:27 AM
SD L794352-05 WG822617	UNKNOWN	3	10/19/2015 9:57:38 AM
PS L794352-05 WG822617	UNKNOWN	3	10/19/2015 10:00:38 AM
MS L794352-05 WG822617	UNKNOWN	3	10/19/2015 10:03:40 AM
MSD L794352-05 WG822617	UNKNOWN	3	10/19/2015 10:06:40 AM
L794843-01 WG822617	UNKNOWN	3	10/19/2015 10:09:37 AM
L794843-02 WG822617	UNKNOWN	3	10/19/2015 10:12:34 AM
CCV 15I21330	QC	3	10/19/2015 10:15:26 AM
CCB	QC	3	10/19/2015 10:18:09 AM
L794843-03 WG822617	UNKNOWN	3	10/19/2015 10:21:18 AM
L794850-02 WG822617	UNKNOWN	3	10/19/2015 10:24:09 AM
L794850-04 WG822617	UNKNOWN	3	10/19/2015 10:27:03 AM
L794850-04 WG822617	UNKNOWN	3	10/19/2015 10:29:54 AM
L794850-06 WG822617	UNKNOWN	3	10/19/2015 10:32:51 AM
L794850-08 WG822617	UNKNOWN	3	10/19/2015 10:35:43 AM
L794850-10 WG822617	UNKNOWN	3	10/19/2015 10:38:36 AM
L794850-10 WG822617	UNKNOWN	3	10/19/2015 10:41:28 AM
L794557-05 WG822491	UNKNOWN	3	10/19/2015 10:44:28 AM
L794557-06 WG822491	UNKNOWN	3	10/19/2015 10:47:34 AM
CCV 15I21330	QC	3	10/19/2015 10:50:39 AM
CCB	QC	3	10/19/2015 10:53:22 AM
L794557-07 WG822491	UNKNOWN	3	10/19/2015 10:56:31 AM
L793812-01 WG821521	UNKNOWN	3	10/19/2015 10:59:36 AM
L793892-07 WG821543	UNKNOWN	3	10/19/2015 11:02:48 AM
CCV 15I21330	QC	3	10/19/2015 11:05:52 AM
CCB	QC	3	10/19/2015 11:08:35 AM
L793654-03 WG822495	UNKNOWN	3	10/19/2015 11:11:44 AM
L793654-06 WG822495	UNKNOWN	3	10/19/2015 11:14:44 AM
L793654-09 WG822495	UNKNOWN	3	10/19/2015 11:17:44 AM
L793654-10 WG822495	UNKNOWN	3	10/19/2015 11:20:51 AM

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Label	Sample Type	Repeats	Start Time
L794088-02 WG822339	UNKNOWN	3	10/19/2015 11:23:50 AM
L794093-01 WG822339	UNKNOWN	3	10/19/2015 11:26:50 AM
L794093-02 WG822339	UNKNOWN	3	10/19/2015 11:29:50 AM
L794368-02 WG822686	UNKNOWN	3	10/19/2015 11:32:49 AM
L794275-01 WG822134	UNKNOWN	3	10/19/2015 11:35:55 AM
L794829-02 WG822488	UNKNOWN	3	10/19/2015 11:38:59 AM
CCV 15I21330	QC	3	10/19/2015 11:42:04 AM
CCB	QC	3	10/19/2015 11:44:47 AM
L794829-04 WG822488	UNKNOWN	3	10/19/2015 11:47:56 AM
CCV 15I21330	QC	3	10/19/2015 11:51:03 AM
CCB	QC	3	10/19/2015 11:53:46 AM
zBLANK WG822515	UNKNOWN	3	10/19/2015 11:58:11 AM
zLCS WG822515	UNKNOWN	3	10/19/2015 12:01:18 PM
zLCSD WG822515	UNKNOWN	3	10/19/2015 12:04:26 PM
zL794728-06 WG822515	UNKNOWN	3	10/19/2015 12:07:34 PM
zSD L794728-06 WG822515	UNKNOWN	3	10/19/2015 12:10:44 PM
zPS L794728-06 WG822515	UNKNOWN	3	10/19/2015 12:13:52 PM
zMS L794728-06 WG822515	UNKNOWN	3	10/19/2015 12:17:00 PM
zMSD L794728-06 WG822515	UNKNOWN	3	10/19/2015 12:20:08 PM
zL794380-01 WG822515	UNKNOWN	3	10/19/2015 12:23:16 PM
zL794380-02 WG822515	UNKNOWN	3	10/19/2015 12:26:23 PM
CCV 15I21330	QC	3	10/19/2015 12:29:30 PM
BLANK WG822515	UNKNOWN	3	10/19/2015 12:35:30 PM
CCV 15I21330	QC	3	10/19/2015 12:38:28 PM
CCB	QC	3	10/19/2015 12:41:11 PM
BLANK WG822515	UNKNOWN	3	10/19/2015 12:44:19 PM
LCS WG822515	UNKNOWN	3	10/19/2015 12:47:28 PM
LCSD WG822515	UNKNOWN	3	10/19/2015 12:50:13 PM
L794728-06 WG822515	UNKNOWN	3	10/19/2015 12:52:58 PM
SD L794728-06 WG822515	UNKNOWN	3	10/19/2015 12:55:58 PM
PS L794728-06 WG822515	UNKNOWN	3	10/19/2015 12:59:01 PM
MS L794728-06 WG822515	UNKNOWN	3	10/19/2015 1:01:45 PM
MSD L794728-06 WG822515	UNKNOWN	3	10/19/2015 1:04:29 PM
L794380-01 WG822515	UNKNOWN	3	10/19/2015 1:07:12 PM
L794380-02 WG822515	UNKNOWN	3	10/19/2015 1:10:24 PM
CCV 15I21330	QC	3	10/19/2015 1:13:37 PM
CCB	QC	3	10/19/2015 1:16:20 PM
L794380-03 WG822515	UNKNOWN	3	10/19/2015 1:19:28 PM
L794728-05 WG822515	UNKNOWN	3	10/19/2015 1:22:31 PM
L794728-11 WG822515	UNKNOWN	3	10/19/2015 1:25:31 PM
L794728-12 WG822515	UNKNOWN	3	10/19/2015 1:28:30 PM
L795051-01 WG822515	UNKNOWN	3	10/19/2015 1:31:29 PM
L795082-01 WG822515	UNKNOWN	3	10/19/2015 1:34:27 PM
L795082-03 WG822515	UNKNOWN	3	10/19/2015 1:37:22 PM
L795082-05 WG822515	UNKNOWN	3	10/19/2015 1:40:15 PM
L795082-07 WG822515	UNKNOWN	3	10/19/2015 1:43:12 PM
L794352-05 WG822617	UNKNOWN	3	10/19/2015 1:46:05 PM
CCV 15I21330	QC	3	10/19/2015 1:49:23 PM
CCB	QC	3	10/19/2015 1:52:09 PM
L794380-01 WG822515	UNKNOWN	3	10/19/2015 2:07:23 PM
L794380-02 WG822515	UNKNOWN	3	10/19/2015 2:10:31 PM
L795051-01 WG822515	UNKNOWN	3	10/19/2015 2:13:37 PM
CCV 15I21330	QC	3	10/19/2015 2:16:40 PM
CCB	QC	3	10/19/2015 2:19:24 PM
CCVLL 15I21316	QC	3	10/19/2015 2:22:34 PM

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Label	Sample Type	Repeats	Start Time
BLANK WG822802	UNKNOWN	3	10/19/2015 2:28:25 PM
CCV 15I21330	QC	3	10/19/2015 2:34:45 PM
CCV 15I21330	QC	3	10/19/2015 2:36:03 PM
CCV 15I21330	QC	3	10/19/2015 2:36:51 PM
ICSA 15I21332	QC	3	10/19/2015 3:01:20 PM
ICSAB 15I21333	QC	3	10/19/2015 3:04:30 PM
INSTBLK	UNKNOWN	3	10/19/2015 3:07:23 PM

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INSTBLK

Sample Type UNKNOWN Analysis Date 10/19/2015 8:33:10 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0035 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	-0.003 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	-0.003 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.004 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	4.5 %	391.2 %	182.5 %	450.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0013 ppm	0.0043 ppm	0.0007 ppm	-0.0010 ppm
Concentration per Run 1	0.001 ppm	0.004 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	0.002 ppm	0.003 ppm	0.001 ppm	0.006 ppm
Concentration per Run 3	0.001 ppm	0.006 ppm	0.001 ppm	-0.009 ppm
Concentration RSD	41.5 %	35.7 %	21.4 %	774.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0003 ppm	0.0000 ppm	0.0114 ppm	0.0040 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.075 ppm	0.004 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.033 ppm	0.008 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	-0.007 ppm	0.001 ppm
Concentration RSD	128.7 %	92,072.4 %	493.2 %	85.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0910 ppm	0.0005 ppm	0.0005 ppm	-0.0075 ppm
Concentration per Run 1	-0.037 ppm	0.002 ppm	0.004 ppm	-0.007 ppm
Concentration per Run 2	-0.169 ppm	-0.001 ppm	0.000 ppm	-0.006 ppm
Concentration per Run 3	-0.067 ppm	0.001 ppm	-0.003 ppm	-0.009 ppm
Concentration RSD	76.4 %	270.8 %	641.7 %	24.0 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0250 ppm	0.0022 ppm	0.0018 ppm	-0.1183 ppm
Concentration per Run 1	0.058 ppm	0.020 ppm	-0.018 ppm	-0.111 ppm
Concentration per Run 2	0.032 ppm	0.000 ppm	0.027 ppm	-0.164 ppm
Concentration per Run 3	-0.015 ppm	-0.013 ppm	-0.004 ppm	-0.079 ppm
Concentration RSD	146.0 %	774.7 %	1,256.2 %	36.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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QTEGRA

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0006 ppm	0.0000 ppm	0.0000 ppm	0.0013 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration RSD	226.1 %	326.0 %	553.9 %	84.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0000 ppm	-0.0025 ppm	0.0030 ppm	0.0002 ppm
Concentration per Run 1	0.000 ppm	-0.003 ppm	0.003 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.005 ppm	0.003 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.003 ppm	0.000 ppm
Concentration RSD	6,412.1 %	101.6 %	12.6 %	24.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0044 ppm	0.0001 ppm	0.0018 ppm	-0.0004 ppm
Concentration per Run 1	0.006 ppm	0.000 ppm	0.001 ppm	-0.001 ppm
Concentration per Run 2	0.006 ppm	0.000 ppm	0.002 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.003 ppm	-0.001 ppm
Concentration RSD	74.2 %	97.1 %	51.4 %	111.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0027 ppm	100.5318 %	100.0624 %	100.1309 %
Concentration per Run 1	0.002 ppm	100.664 %	100.224 %	99.919 %
Concentration per Run 2	0.003 ppm	100.470 %	100.057 %	99.997 %
Concentration per Run 3	0.003 ppm	100.462 %	99.907 %	100.476 %
Concentration RSD	13.7 %	0.1 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	0.2 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.4519 %	-0.0207 ppm
Concentration per Run 1	100.642 %	-0.028 ppm
Concentration per Run 2	100.438 %	-0.068 ppm
Concentration per Run 3	100.276 %	0.034 ppm
Concentration RSD	0.2 %	250.3 %
Concentration SD	0.2 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-5 cps	4 cps	2 cps	1 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	1 cps	-12 cps	9 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	1 cps	13 cps	3 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	-1 cps	13 cps	60 cps	21 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	94 cps	-43 cps	-97 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-3 cps	-2 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	18 cps	-1 cps	3 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-24 cps	45 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	0 cps	5,056 cps	7,236 cps	169,996 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,765 cps	15 cps

Comprehensive sample report

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CALBLK

Sample Type BLK Analysis Date 10/19/2015 8:36:21 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	-0.4 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm

	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	0.6 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	-0.5 %	-0.4 %
Concentration SD	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	-0.1 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	-0.1 %	0.9 %
Concentration SD	0.0 ppm	0.0 ppm

	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	0.2 %	1.5 %
Concentration SD	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	2.1 %	1.3 %
Concentration SD	0.1 ppm	0.0 ppm

	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	0.0 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm

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	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	8.6 %	0.2 %
Concentration SD	0.1 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	-0.3 %	-0.1 %
Concentration SD	0.0 ppm	0.1 ppm

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	0.6 %	-0.4 %
Concentration SD	0.0 ppm	0.0 ppm

	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	-0.1 %	-0.2 %
Concentration SD	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	0.2 %	-14.3 %
Concentration SD	0.0 ppm	0.0 ppm

	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	-0.4 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	0.1 %	-0.1 %
Concentration SD	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0000 ppm	0.0000 ppm
Concentration per Run	0.000 ppm	0.000 ppm
Concentration RSD	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)
Concentration average	0.0000 ppm	100.0000 %
Concentration per Run	0.000 ppm	100.000 %
Concentration RSD	-0.6 %	
Concentration SD	0.0 ppm	

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	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	100.0000 %	100.0000 %
Concentration per Run	100.000 %	100.000 %
Concentration RSD		
Concentration SD		

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.0000 %	0.0000 ppm
Concentration per Run	100.000 %	0.000 ppm
Concentration RSD		2,044,050,195,876,730.0 %
Concentration SD		0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	4 cps	2 cps	2 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	-1 cps	-18 cps	9 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-4 cps	1 cps	12 cps	1 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	8 cps	59 cps	23 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	93 cps	-46 cps	-86 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-4 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	18 cps	0 cps	-1 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	1 cps	-26 cps	40 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-1 cps	5,029 cps	7,231 cps	169,774 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,685 cps	20 cps

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QTEGRA

STD1 15I21316

Sample Type STD Analysis Date 10/19/2015 8:39:31 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0073 ppm	0.0054 ppm	0.0021 ppm	0.0105 ppm
Concentration per Run 1	0.009 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration per Run 2	0.007 ppm	0.005 ppm	0.002 ppm	0.011 ppm
Concentration per Run 3	0.007 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration RSD	18.4 %	1.6 %	2.4 %	4.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0049 ppm	0.0135 ppm	0.0056 ppm	0.0105 ppm
Concentration per Run 1	0.005 ppm	0.016 ppm	0.006 ppm	0.018 ppm
Concentration per Run 2	0.004 ppm	0.015 ppm	0.005 ppm	0.007 ppm
Concentration per Run 3	0.005 ppm	0.010 ppm	0.006 ppm	0.006 ppm
Concentration RSD	8.1 %	24.6 %	7.9 %	64.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0104 ppm	0.0528 ppm	0.2057 ppm	0.1103 ppm
Concentration per Run 1	0.010 ppm	0.054 ppm	0.203 ppm	0.116 ppm
Concentration per Run 2	0.010 ppm	0.053 ppm	0.219 ppm	0.108 ppm
Concentration per Run 3	0.010 ppm	0.052 ppm	0.196 ppm	0.107 ppm
Concentration RSD	0.6 %	1.8 %	5.7 %	4.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	N/A	0.0139 ppm	1.0605 ppm	N/A
Concentration per Run 1	N/A	0.013 ppm	1.054 ppm	N/A
Concentration per Run 2	N/A	0.014 ppm	1.066 ppm	N/A
Concentration per Run 3	N/A	0.015 ppm	1.062 ppm	N/A
Concentration RSD	N/A	5.4 %	0.6 %	N/A
Concentration SD	N/A	0.0 ppm	0.0 ppm	N/A

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	1.0996 ppm	1.1728 ppm	1.0819 ppm	N/A
Concentration per Run 1	1.064 ppm	1.163 ppm	1.089 ppm	N/A
Concentration per Run 2	1.086 ppm	1.188 ppm	1.083 ppm	N/A
Concentration per Run 3	1.150 ppm	1.167 ppm	1.074 ppm	N/A
Concentration RSD	4.1 %	1.2 %	0.7 %	N/A
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	N/A

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0099 ppm	0.0021 ppm	0.0099 ppm	0.0100 ppm
Concentration per Run 1	0.011 ppm	0.002 ppm	0.010 ppm	0.011 ppm
Concentration per Run 2	0.011 ppm	0.002 ppm	0.010 ppm	0.010 ppm
Concentration per Run 3	0.008 ppm	0.002 ppm	0.010 ppm	0.009 ppm
Concentration RSD	19.8 %	2.3 %	0.4 %	9.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0107 ppm	0.0220 ppm	0.0539 ppm	0.0052 ppm
Concentration per Run 1	0.011 ppm	0.021 ppm	0.056 ppm	0.005 ppm
Concentration per Run 2	0.011 ppm	0.021 ppm	0.050 ppm	0.005 ppm
Concentration per Run 3	0.011 ppm	0.024 ppm	0.055 ppm	0.005 ppm
Concentration RSD	0.7 %	8.8 %	5.6 %	3.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0631 ppm	0.0104 ppm	0.0494 ppm	0.0504 ppm
Concentration per Run 1	0.063 ppm	0.010 ppm	0.053 ppm	0.052 ppm
Concentration per Run 2	0.068 ppm	0.010 ppm	0.049 ppm	0.050 ppm
Concentration per Run 3	0.059 ppm	0.010 ppm	0.047 ppm	0.049 ppm
Concentration RSD	7.7 %	1.3 %	6.3 %	3.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	1.0717 ppm	98.4271 %	100.0843 %	99.2227 %
Concentration per Run 1	1.084 ppm	98.123 %	99.477 %	99.454 %
Concentration per Run 2	1.073 ppm	98.502 %	100.616 %	99.350 %
Concentration per Run 3	1.058 ppm	98.656 %	100.160 %	98.863 %
Concentration RSD	1.2 %			
Concentration SD	0.0 ppm			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	99.7974 %	N/A
Concentration per Run 1	99.398 %	N/A
Concentration per Run 2	99.957 %	N/A
Concentration per Run 3	100.038 %	N/A
Concentration RSD		N/A
Concentration SD		N/A

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1 cps	43 cps	20 cps	97 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	2 cps	4 cps	32 cps	14 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	18 cps	288 cps	24 cps	55 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	4 cps	151 cps	507 cps	254 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	45 cps	615 cps	1,355 cps	16 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	6 cps	33 cps	55 cps	2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	601 cps	9 cps	69 cps	24 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	18 cps	175 cps	159 cps	57 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	273 cps	4,950 cps	7,237 cps	168,454 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,649 cps	17 cps

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STD2 15G21064

Sample Type STD Analysis Date 10/19/2015 8:42:39 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.4873 ppm	0.5146 ppm	0.4959 ppm	0.5014 ppm
Concentration per Run 1	0.488 ppm	0.516 ppm	0.496 ppm	0.501 ppm
Concentration per Run 2	0.487 ppm	0.515 ppm	0.497 ppm	0.501 ppm
Concentration per Run 3	0.486 ppm	0.513 ppm	0.495 ppm	0.502 ppm
Concentration RSD	0.2 %	0.3 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.4968 ppm	0.4941 ppm	0.4952 ppm	0.4973 ppm
Concentration per Run 1	0.496 ppm	0.497 ppm	0.496 ppm	0.500 ppm
Concentration per Run 2	0.498 ppm	0.493 ppm	0.495 ppm	0.498 ppm
Concentration per Run 3	0.496 ppm	0.493 ppm	0.495 ppm	0.494 ppm
Concentration RSD	0.3 %	0.5 %	0.1 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.4916 ppm	0.4998 ppm	N/A	0.5051 ppm
Concentration per Run 1	0.494 ppm	0.500 ppm	N/A	0.502 ppm
Concentration per Run 2	0.491 ppm	0.503 ppm	N/A	0.502 ppm
Concentration per Run 3	0.490 ppm	0.496 ppm	N/A	0.511 ppm
Concentration RSD	0.4 %	0.7 %	N/A	1.1 %
Concentration SD	0.0 ppm	0.0 ppm	N/A	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	N/A	0.5048 ppm	N/A	N/A
Concentration per Run 1	N/A	0.505 ppm	N/A	N/A
Concentration per Run 2	N/A	0.502 ppm	N/A	N/A
Concentration per Run 3	N/A	0.508 ppm	N/A	N/A
Concentration RSD	N/A	0.6 %	N/A	N/A
Concentration SD	N/A	0.0 ppm	N/A	N/A

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	N/A	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A	N/A

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.4902 ppm	0.5029 ppm	0.4940 ppm	0.4938 ppm
Concentration per Run 1	0.493 ppm	0.504 ppm	0.496 ppm	0.496 ppm
Concentration per Run 2	0.489 ppm	0.502 ppm	0.494 ppm	0.493 ppm
Concentration per Run 3	0.489 ppm	0.503 ppm	0.492 ppm	0.492 ppm
Concentration RSD	0.4 %	0.2 %	0.4 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.5035 ppm	0.4998 ppm	0.5016 ppm	0.5094 ppm
Concentration per Run 1	0.503 ppm	0.505 ppm	0.502 ppm	0.511 ppm
Concentration per Run 2	0.504 ppm	0.492 ppm	0.503 ppm	0.510 ppm
Concentration per Run 3	0.504 ppm	0.502 ppm	0.500 ppm	0.507 ppm
Concentration RSD	0.1 %	1.3 %	0.2 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	N/A	0.5030 ppm	N/A	0.4927 ppm
Concentration per Run 1	N/A	0.502 ppm	N/A	0.495 ppm
Concentration per Run 2	N/A	0.503 ppm	N/A	0.493 ppm
Concentration per Run 3	N/A	0.505 ppm	N/A	0.490 ppm
Concentration RSD	N/A	0.3 %	N/A	0.6 %
Concentration SD	N/A	0.0 ppm	N/A	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	N/A	99.8579 %	102.0571 %	101.9939 %
Concentration per Run 1	N/A	99.833 %	102.676 %	102.209 %
Concentration per Run 2	N/A	99.910 %	102.049 %	101.728 %
Concentration per Run 3	N/A	99.831 %	101.447 %	102.044 %
Concentration RSD	N/A			
Concentration SD	N/A			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	102.2902 %	N/A
Concentration per Run 1	102.261 %	N/A
Concentration per Run 2	102.402 %	N/A
Concentration per Run 3	102.208 %	N/A
Concentration RSD		N/A
Concentration SD		N/A

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	262 cps	3,863 cps	4,347 cps	4,653 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	410 cps	193 cps	4,500 cps	232 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1,047 cps	2,781 cps	47 cps	253 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	13 cps	5,286 cps	284 cps	135 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	21 cps	338 cps	636 cps	-27 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	264 cps	9,232 cps	2,872 cps	262 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	28,235 cps	211 cps	662 cps	2,103 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	136 cps	9,915 cps	1,389 cps	557 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	138 cps	5,022 cps	7,380 cps	173,159 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	18,090 cps	17 cps

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STD3 15H06986

Sample Type STD Analysis Date 10/19/2015 8:45:32 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.9837 ppm	1.0273 ppm	1.0020 ppm	1.0040 ppm
Concentration per Run 1	0.988 ppm	1.031 ppm	1.005 ppm	1.005 ppm
Concentration per Run 2	0.988 ppm	1.033 ppm	1.008 ppm	1.001 ppm
Concentration per Run 3	0.975 ppm	1.019 ppm	0.994 ppm	1.006 ppm
Concentration RSD	0.8 %	0.7 %	0.7 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	1.0016 ppm	1.0029 ppm	1.0024 ppm	0.9983 ppm
Concentration per Run 1	1.004 ppm	1.004 ppm	1.003 ppm	1.003 ppm
Concentration per Run 2	1.010 ppm	1.011 ppm	0.999 ppm	0.988 ppm
Concentration per Run 3	0.990 ppm	0.994 ppm	1.005 ppm	1.004 ppm
Concentration RSD	1.0 %	0.8 %	0.3 %	0.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.9976 ppm	0.9985 ppm	N/A	1.0108 ppm
Concentration per Run 1	1.001 ppm	1.002 ppm	N/A	1.011 ppm
Concentration per Run 2	1.003 ppm	1.005 ppm	N/A	1.009 ppm
Concentration per Run 3	0.989 ppm	0.988 ppm	N/A	1.013 ppm
Concentration RSD	0.7 %	0.9 %	N/A	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	N/A	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	N/A	0.9976 ppm	1.0183 ppm	N/A
Concentration per Run 1	N/A	0.997 ppm	1.015 ppm	N/A
Concentration per Run 2	N/A	0.994 ppm	1.022 ppm	N/A
Concentration per Run 3	N/A	1.002 ppm	1.018 ppm	N/A
Concentration RSD	N/A	0.4 %	0.3 %	N/A
Concentration SD	N/A	0.0 ppm	0.0 ppm	N/A

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	N/A	N/A	1.0170 ppm	N/A
Concentration per Run 1	N/A	N/A	1.021 ppm	N/A
Concentration per Run 2	N/A	N/A	1.009 ppm	N/A
Concentration per Run 3	N/A	N/A	1.021 ppm	N/A
Concentration RSD	N/A	N/A	0.7 %	N/A
Concentration SD	N/A	N/A	0.0 ppm	N/A

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.0049 ppm	0.9984 ppm	0.9943 ppm	1.0031 ppm
Concentration per Run 1	1.013 ppm	0.999 ppm	0.998 ppm	1.002 ppm
Concentration per Run 2	1.007 ppm	0.999 ppm	1.001 ppm	1.010 ppm
Concentration per Run 3	0.994 ppm	0.997 ppm	0.984 ppm	0.997 ppm
Concentration RSD	0.9 %	0.1 %	0.9 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.0015 ppm	0.9996 ppm	1.0005 ppm	1.0116 ppm
Concentration per Run 1	1.000 ppm	0.999 ppm	0.998 ppm	1.015 ppm
Concentration per Run 2	1.000 ppm	0.989 ppm	0.999 ppm	1.018 ppm
Concentration per Run 3	1.004 ppm	1.011 ppm	1.005 ppm	1.002 ppm
Concentration RSD	0.3 %	1.1 %	0.4 %	0.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.9978 ppm	1.0014 ppm	1.1572 ppm	0.9944 ppm
Concentration per Run 1	0.989 ppm	0.999 ppm	1.142 ppm	0.999 ppm
Concentration per Run 2	1.002 ppm	0.999 ppm	1.158 ppm	1.000 ppm
Concentration per Run 3	1.002 ppm	1.007 ppm	1.172 ppm	0.985 ppm
Concentration RSD	0.7 %	0.5 %	1.3 %	0.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	1.0811 ppm	99.6744 %	104.8167 %	102.0520 %
Concentration per Run 1	1.088 ppm	99.362 %	104.811 %	101.761 %
Concentration per Run 2	1.084 ppm	99.222 %	105.255 %	102.191 %
Concentration per Run 3	1.071 ppm	100.439 %	104.384 %	102.204 %
Concentration RSD	0.9 %			
Concentration SD	0.0 ppm			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	102.9397 %	N/A
Concentration per Run 1	102.595 %	N/A
Concentration per Run 2	102.549 %	N/A
Concentration per Run 3	103.675 %	N/A
Concentration RSD		N/A
Concentration SD		N/A

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	535 cps	7,756 cps	8,836 cps	9,320 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	827 cps	394 cps	9,134 cps	468 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	2,126 cps	5,589 cps	76 cps	520 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	25 cps	10,721 cps	512 cps	261 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	43 cps	614 cps	1,331 cps	17 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	543 cps	18,829 cps	5,772 cps	535 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	56,174 cps	434 cps	1,356 cps	4,199 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	278 cps	20,300 cps	2,925 cps	1,129 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	284 cps	5,013 cps	7,580 cps	173,258 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	18,205 cps	24 cps

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Sample Type STD Analysis Date 10/19/2015 8:48:19 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0114 ppm	2.0411 ppm	N/A	1.9977 ppm
Concentration per Run 1	2.015 ppm	2.047 ppm	N/A	2.012 ppm
Concentration per Run 2	2.007 ppm	2.040 ppm	N/A	1.992 ppm
Concentration per Run 3	2.012 ppm	2.036 ppm	N/A	1.989 ppm
Concentration RSD	0.2 %	0.3 %	N/A	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	N/A	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	N/A	N/A	N/A	2.0015 ppm
Concentration per Run 1	N/A	N/A	N/A	2.002 ppm
Concentration per Run 2	N/A	N/A	N/A	2.007 ppm
Concentration per Run 3	N/A	N/A	N/A	1.996 ppm
Concentration RSD	N/A	N/A	N/A	0.3 %
Concentration SD	N/A	N/A	N/A	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0033 ppm	2.0008 ppm	2.1480 ppm	2.0168 ppm
Concentration per Run 1	2.009 ppm	2.003 ppm	2.101 ppm	2.019 ppm
Concentration per Run 2	2.006 ppm	2.005 ppm	2.150 ppm	2.015 ppm
Concentration per Run 3	1.995 ppm	1.994 ppm	2.193 ppm	2.016 ppm
Concentration RSD	0.4 %	0.3 %	2.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	N/A	N/A	2.0313 ppm	N/A
Concentration per Run 1	N/A	N/A	2.030 ppm	N/A
Concentration per Run 2	N/A	N/A	2.025 ppm	N/A
Concentration per Run 3	N/A	N/A	2.039 ppm	N/A
Concentration RSD	N/A	N/A	0.3 %	N/A
Concentration SD	N/A	N/A	0.0 ppm	N/A

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	N/A	N/A	2.0467 ppm	N/A
Concentration per Run 1	N/A	N/A	2.037 ppm	N/A
Concentration per Run 2	N/A	N/A	2.042 ppm	N/A
Concentration per Run 3	N/A	N/A	2.061 ppm	N/A
Concentration RSD	N/A	N/A	0.6 %	N/A
Concentration SD	N/A	N/A	0.0 ppm	N/A

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	N/A	2.0001 ppm	2.0043 ppm	N/A
Concentration per Run 1	N/A	1.998 ppm	2.008 ppm	N/A
Concentration per Run 2	N/A	2.000 ppm	2.004 ppm	N/A
Concentration per Run 3	N/A	2.003 ppm	2.000 ppm	N/A
Concentration RSD	N/A	0.1 %	0.2 %	N/A
Concentration SD	N/A	0.0 ppm	0.0 ppm	N/A

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.9984 ppm	2.0002 ppm	1.9993 ppm	1.9919 ppm
Concentration per Run 1	2.005 ppm	1.983 ppm	1.997 ppm	1.999 ppm
Concentration per Run 2	1.994 ppm	2.009 ppm	1.998 ppm	1.993 ppm
Concentration per Run 3	1.996 ppm	2.009 ppm	2.002 ppm	1.984 ppm
Concentration RSD	0.3 %	0.7 %	0.1 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	2.0008 ppm	1.9985 ppm	2.5992 ppm	2.0046 ppm
Concentration per Run 1	1.998 ppm	1.991 ppm	2.557 ppm	2.006 ppm
Concentration per Run 2	2.002 ppm	2.005 ppm	2.593 ppm	2.009 ppm
Concentration per Run 3	2.002 ppm	2.000 ppm	2.648 ppm	1.999 ppm
Concentration RSD	0.1 %	0.4 %	1.7 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	2.2473 ppm	99.7818 %	106.1438 %	102.5449 %
Concentration per Run 1	2.254 ppm	99.736 %	107.299 %	102.365 %
Concentration per Run 2	2.251 ppm	100.002 %	105.638 %	102.391 %
Concentration per Run 3	2.237 ppm	99.608 %	105.495 %	102.879 %
Concentration RSD	0.4 %			
Concentration SD	0.0 ppm			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	103.8883 %	N/A
Concentration per Run 1	103.835 %	N/A
Concentration per Run 2	104.077 %	N/A
Concentration per Run 3	103.753 %	N/A
Concentration RSD		N/A
Concentration SD		N/A

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,107 cps	15,549 cps	18,287 cps	18,631 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1,691 cps	814 cps	18,972 cps	941 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	4,277 cps	11,302 cps	146 cps	1,050 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	50 cps	21,555 cps	972 cps	498 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	88 cps	1,127 cps	2,762 cps	140 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,125 cps	38,200 cps	11,649 cps	1,104 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	112,614 cps	879 cps	2,746 cps	8,342 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	563 cps	41,051 cps	6,550 cps	2,294 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	598 cps	5,018 cps	7,675 cps	174,095 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	18,373 cps	31 cps

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STD5 15I21304

Sample Type STD Analysis Date 10/19/2015 8:51:04 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	N/A	9.9883 ppm	N/A	N/A
Concentration per Run 1	N/A	9.986 ppm	N/A	N/A
Concentration per Run 2	N/A	9.982 ppm	N/A	N/A
Concentration per Run 3	N/A	9.997 ppm	N/A	N/A
Concentration RSD	N/A	0.1 %	N/A	N/A
Concentration SD	N/A	0.0 ppm	N/A	N/A

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	N/A	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A	N/A

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	N/A	N/A	10.3254 ppm	9.9952 ppm
Concentration per Run 1	N/A	N/A	10.443 ppm	9.998 ppm
Concentration per Run 2	N/A	N/A	10.309 ppm	9.989 ppm
Concentration per Run 3	N/A	N/A	10.224 ppm	9.999 ppm
Concentration RSD	N/A	N/A	1.1 %	0.1 %
Concentration SD	N/A	N/A	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.6397 ppm	N/A	9.9859 ppm	10.5633 ppm
Concentration per Run 1	10.545 ppm	N/A	10.006 ppm	10.602 ppm
Concentration per Run 2	10.678 ppm	N/A	9.973 ppm	10.538 ppm
Concentration per Run 3	10.696 ppm	N/A	9.978 ppm	10.550 ppm
Concentration RSD	0.8 %	N/A	0.2 %	0.3 %
Concentration SD	0.1 ppm	N/A	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.0692 ppm	10.9715 ppm	9.9808 ppm	10.6461 ppm
Concentration per Run 1	10.107 ppm	11.003 ppm	10.003 ppm	10.643 ppm
Concentration per Run 2	9.999 ppm	10.965 ppm	9.970 ppm	10.702 ppm
Concentration per Run 3	10.102 ppm	10.947 ppm	9.970 ppm	10.594 ppm
Concentration RSD	0.6 %	0.3 %	0.2 %	0.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	N/A	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A	N/A

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	N/A	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A	N/A

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	N/A	N/A	9.8645 ppm	N/A
Concentration per Run 1	N/A	N/A	9.875 ppm	N/A
Concentration per Run 2	N/A	N/A	9.872 ppm	N/A
Concentration per Run 3	N/A	N/A	9.846 ppm	N/A
Concentration RSD	N/A	N/A	0.2 %	N/A
Concentration SD	N/A	N/A	0.0 ppm	N/A

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	11.4100 ppm	97.7754 %	107.8093 %	102.3870 %
Concentration per Run 1	11.429 ppm	98.347 %	107.646 %	102.676 %
Concentration per Run 2	11.428 ppm	97.618 %	108.191 %	102.004 %
Concentration per Run 3	11.373 ppm	97.361 %	107.591 %	102.481 %
Concentration RSD	0.3 %			
Concentration SD	0.0 ppm			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	103.4379 %	N/A
Concentration per Run 1	104.014 %	N/A
Concentration per Run 2	103.403 %	N/A
Concentration per Run 3	102.897 %	N/A
Concentration RSD		N/A
Concentration SD		N/A

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	75,748 cps	-19 cps	0 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1 cps	1 cps	-13 cps	11 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	9 cps	664 cps	5,282 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	226 cps	29 cps	4,601 cps	2,407 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	441 cps	5,363 cps	13,873 cps	946 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	5 cps	-2 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	66 cps	-2 cps	6 cps	11 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	1 cps	-13 cps	24,707 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	3,024 cps	4,917 cps	7,796 cps	173,827 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	18,293 cps	20 cps

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STD8

Sample Type STD Analysis Date 10/19/2015 8:54:07 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	N/A	257.2234 ppm	N/A
Concentration per Run 1	N/A	258.396 ppm	N/A
Concentration per Run 2	N/A	256.111 ppm	N/A
Concentration per Run 3	N/A	257.164 ppm	N/A
Concentration RSD	N/A	0.4 %	N/A
Concentration SD	N/A	1.1 ppm	N/A

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	251.5249 ppm	243.5690 ppm	N/A
Concentration per Run 1	252.147 ppm	244.431 ppm	N/A

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	250.407 ppm	242.409 ppm	N/A
Concentration per Run 3	252.021 ppm	243.867 ppm	N/A
Concentration RSD	0.4 %	0.4 %	N/A
Concentration SD	1.0 ppm	1.0 ppm	N/A

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	N/A	253.7278 ppm	N/A
Concentration per Run 1	N/A	254.223 ppm	N/A
Concentration per Run 2	N/A	252.883 ppm	N/A
Concentration per Run 3	N/A	254.078 ppm	N/A
Concentration RSD	N/A	0.3 %	N/A
Concentration SD	N/A	0.7 ppm	N/A

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	76.9695 %	104.8802 %	90.6097 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	77.217 %	105.217 %	90.682 %
Concentration per Run 2	76.873 %	105.206 %	90.757 %
Concentration per Run 3	76.819 %	104.218 %	90.389 %
Concentration RSD			
Concentration SD			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	92.1156 %	N/A
Concentration per Run 1	92.411 %	N/A
Concentration per Run 2	92.074 %	N/A
Concentration per Run 3	91.862 %	N/A
Concentration RSD		N/A
Concentration SD		N/A

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	14 cps	11 cps	4 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-9 cps	2 cps	-15 cps	13 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1 cps	20 cps	15,794 cps	13 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	128 cps	104,265 cps	55,228 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	10,373 cps	146 cps	305,882 cps	23,993 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	2 cps	0 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	1,111 cps	1 cps	43 cps	7 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	1 cps	54 cps	63 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	3 cps	3,871 cps	7,584 cps	153,832 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,291 cps	18 cps

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Sample Type STD Analysis Date 10/19/2015 8:57:21 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	101.4106 ppm	N/A	N/A
Concentration per Run 1	101.879 ppm	N/A	N/A
Concentration per Run 2	101.314 ppm	N/A	N/A
Concentration per Run 3	101.039 ppm	N/A	N/A
Concentration RSD	0.4 %	N/A	N/A
Concentration SD	0.4 ppm	N/A	N/A

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	N/A	N/A	51.4634 ppm
Concentration per Run 1	N/A	N/A	51.826 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	N/A	N/A	51.343 ppm
Concentration per Run 3	N/A	N/A	51.221 ppm
Concentration RSD	N/A	N/A	0.6 %
Concentration SD	N/A	N/A	0.3 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	N/A	N/A	50.5002 ppm
Concentration per Run 1	N/A	N/A	51.028 ppm
Concentration per Run 2	N/A	N/A	50.491 ppm
Concentration per Run 3	N/A	N/A	49.982 ppm
Concentration RSD	N/A	N/A	1.0 %
Concentration SD	N/A	N/A	0.5 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	93.7842 %	105.7362 %	99.2234 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	93.728 %	105.136 %	99.229 %
Concentration per Run 2	93.751 %	106.501 %	99.495 %
Concentration per Run 3	93.874 %	105.572 %	98.946 %
Concentration RSD			
Concentration SD			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	99.7349 %	10.0000 ppm
Concentration per Run 1	99.718 %	9.982 ppm
Concentration per Run 2	99.853 %	10.088 ppm
Concentration per Run 3	99.634 %	9.931 ppm
Concentration RSD		0.8 %
Concentration SD		0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-9 cps	13 cps	4 cps	1 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-3 cps	-3 cps	-21 cps	11 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	5 cps	13 cps	16 cps	48,107 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2,103 cps	14 cps	87 cps	82 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	3 cps	24,310 cps	17 cps	-63 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	-2 cps	9 cps	-3 cps	-15 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	97 cps	-1 cps	2 cps	-1 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	1 cps	1 cps	75 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	12,907 cps	4,716 cps	7,646 cps	168,456 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,638 cps	2,742 cps

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STD10

Sample Type STD Analysis Date 10/19/2015 9:00:25 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	N/A	496.3812 ppm	N/A
Concentration per Run 1	N/A	497.738 ppm	N/A
Concentration per Run 2	N/A	496.801 ppm	N/A
Concentration per Run 3	N/A	494.604 ppm	N/A
Concentration RSD	N/A	0.3 %	N/A
Concentration SD	N/A	1.6 ppm	N/A

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	499.2263 ppm	N/A	N/A
Concentration per Run 1	501.284 ppm	N/A	N/A

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	499.836 ppm	N/A	N/A
Concentration per Run 3	496.559 ppm	N/A	N/A
Concentration RSD	0.5 %	N/A	N/A
Concentration SD	2.4 ppm	N/A	N/A

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	80.9897 %	108.5895 %	91.7510 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	81.206 %	108.799 %	92.135 %
Concentration per Run 2	81.004 %	108.101 %	91.480 %
Concentration per Run 3	80.759 %	108.868 %	91.638 %
Concentration RSD			
Concentration SD			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	96.0440 %	N/A
Concentration per Run 1	96.443 %	N/A
Concentration per Run 2	95.968 %	N/A
Concentration per Run 3	95.721 %	N/A
Concentration RSD		N/A
Concentration SD		N/A

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-6 cps	10 cps	2 cps	1 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-20 cps	4 cps	-15 cps	11 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-5 cps	17 cps	31,545 cps	7 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	223 cps	211,731 cps	113,469 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	114 cps	11 cps	-47 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	-5 cps	-1 cps	-4 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	63 cps	0 cps	26 cps	8 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	104 cps	40 cps	0 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2 cps	4,073 cps	7,852 cps	155,769 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,986 cps	37 cps

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STD11

Sample Type STD Analysis Date 10/19/2015 9:03:40 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	N/A	503.2139 ppm	N/A
Concentration per Run 1	N/A	507.582 ppm	N/A

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	N/A	501.735 ppm	N/A
Concentration per Run 3	N/A	500.324 ppm	N/A
Concentration RSD	N/A	0.8 %	N/A
Concentration SD	N/A	3.8 ppm	N/A

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	N/A	498.1232 ppm	N/A
Concentration per Run 1	N/A	499.974 ppm	N/A
Concentration per Run 2	N/A	496.760 ppm	N/A
Concentration per Run 3	N/A	497.636 ppm	N/A
Concentration RSD	N/A	0.3 %	N/A
Concentration SD	N/A	1.7 ppm	N/A

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	77.6316 %	106.2715 %	88.4987 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	77.579 %	106.458 %	88.793 %
Concentration per Run 2	77.626 %	106.836 %	88.572 %
Concentration per Run 3	77.690 %	105.521 %	88.131 %
Concentration RSD			
Concentration SD			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	89.2554 %	N/A
Concentration per Run 1	89.482 %	N/A
Concentration per Run 2	89.348 %	N/A
Concentration per Run 3	88.936 %	N/A
Concentration RSD		N/A
Concentration SD		N/A

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	17 cps	17 cps	8 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	0 cps	0 cps	-8 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	6 cps	24 cps	21 cps	21 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2 cps	24 cps	133 cps	55 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	21,716 cps	168 cps	532,024 cps	47,817 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	7 cps	4 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	2,307 cps	0 cps	35 cps	5 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	7 cps	50 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	7 cps	3,904 cps	7,685 cps	150,248 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	15,785 cps	5 cps

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STD12

Sample Type STD Analysis Date 10/19/2015 9:06:55 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	199.2627 ppm	N/A	N/A
Concentration per Run 1	200.612 ppm	N/A	N/A
Concentration per Run 2	199.046 ppm	N/A	N/A
Concentration per Run 3	198.131 ppm	N/A	N/A
Concentration RSD	0.6 %	N/A	N/A
Concentration SD	1.3 ppm	N/A	N/A

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	N/A	N/A	99.1694 ppm
Concentration per Run 1	N/A	N/A	99.890 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	N/A	N/A	98.876 ppm
Concentration per Run 3	N/A	N/A	98.742 ppm
Concentration RSD	N/A	N/A	0.6 %
Concentration SD	N/A	N/A	0.6 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	N/A	N/A	N/A
Concentration per Run 1	N/A	N/A	N/A
Concentration per Run 2	N/A	N/A	N/A
Concentration per Run 3	N/A	N/A	N/A
Concentration RSD	N/A	N/A	N/A
Concentration SD	N/A	N/A	N/A

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	N/A	N/A	99.6024 ppm
Concentration per Run 1	N/A	N/A	100.780 ppm
Concentration per Run 2	N/A	N/A	99.740 ppm
Concentration per Run 3	N/A	N/A	98.288 ppm
Concentration RSD	N/A	N/A	1.3 %
Concentration SD	N/A	N/A	1.3 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	91.1631 %	106.5085 %	98.6232 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	91.262 %	106.166 %	98.684 %
Concentration per Run 2	91.013 %	106.692 %	98.627 %
Concentration per Run 3	91.215 %	106.667 %	98.558 %
Concentration RSD			
Concentration SD			

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	99.1288 %	N/A
Concentration per Run 1	99.372 %	N/A
Concentration per Run 2	99.142 %	N/A
Concentration per Run 3	98.872 %	N/A
Concentration RSD		N/A
Concentration SD		N/A

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-5 cps	18 cps	1 cps	4 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-3 cps	-1 cps	-28 cps	13 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	14 cps	15 cps	16 cps	94,246 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	4,161 cps	-7 cps	86 cps	134 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	7 cps	47,096 cps	108 cps	-20 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	0 cps	-4 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	163 cps	1 cps	2 cps	-1 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	1 cps	-13 cps	56 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	25,303 cps	4,585 cps	7,702 cps	167,437 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,531 cps	36 cps

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Sample Type QC Analysis Date 10/19/2015 9:10:00 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.9971 ppm	1.0191 ppm	0.9949 ppm	0.9930 ppm
Concentration per Run 1	1.003 ppm	1.021 ppm	0.996 ppm	0.992 ppm
Concentration per Run 2	0.995 ppm	1.020 ppm	0.996 ppm	0.993 ppm
Concentration per Run 3	0.993 ppm	1.016 ppm	0.992 ppm	0.994 ppm
Concentration RSD	0.5 %	0.2 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.9846 ppm	1.0150 ppm	0.9763 ppm	0.9992 ppm
Concentration per Run 1	0.985 ppm	1.020 ppm	0.978 ppm	1.005 ppm
Concentration per Run 2	0.985 ppm	1.014 ppm	0.975 ppm	0.999 ppm
Concentration per Run 3	0.983 ppm	1.010 ppm	0.976 ppm	0.994 ppm
Concentration RSD	0.1 %	0.5 %	0.2 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.9986 ppm	0.9958 ppm	10.4530 ppm	10.2429 ppm
Concentration per Run 1	1.003 ppm	0.999 ppm	10.418 ppm	10.228 ppm
Concentration per Run 2	0.997 ppm	0.995 ppm	10.470 ppm	10.214 ppm
Concentration per Run 3	0.996 ppm	0.994 ppm	10.471 ppm	10.286 ppm
Concentration RSD	0.4 %	0.3 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.9532 ppm	0.9807 ppm	10.1707 ppm	10.7372 ppm
Concentration per Run 1	10.943 ppm	0.979 ppm	10.130 ppm	10.735 ppm
Concentration per Run 2	10.997 ppm	0.977 ppm	10.171 ppm	10.748 ppm
Concentration per Run 3	10.919 ppm	0.986 ppm	10.211 ppm	10.729 ppm
Concentration RSD	0.4 %	0.5 %	0.4 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	10.0511 ppm	11.0010 ppm	10.1020 ppm	10.4994 ppm
Concentration per Run 1	10.097 ppm	11.028 ppm	10.093 ppm	10.582 ppm
Concentration per Run 2	10.029 ppm	10.995 ppm	10.098 ppm	10.433 ppm
Concentration per Run 3	10.028 ppm	10.981 ppm	10.115 ppm	10.483 ppm
Concentration RSD	0.4 %	0.2 %	0.1 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.0013 ppm	1.0142 ppm	0.9881 ppm	0.9765 ppm
Concentration per Run 1	1.009 ppm	1.012 ppm	0.992 ppm	0.978 ppm
Concentration per Run 2	0.997 ppm	1.012 ppm	0.988 ppm	0.973 ppm
Concentration per Run 3	0.998 ppm	1.018 ppm	0.984 ppm	0.979 ppm
Concentration RSD	0.7 %	0.3 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	1.0009 ppm	1.0172 ppm	1.0161 ppm	1.0226 ppm
Concentration per Run 1	1.003 ppm	1.019 ppm	1.011 ppm	1.026 ppm
Concentration per Run 2	1.000 ppm	1.018 ppm	1.016 ppm	1.023 ppm
Concentration per Run 3	1.000 ppm	1.015 ppm	1.021 ppm	1.020 ppm
Concentration RSD	0.2 %	0.2 %	0.5 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.9991 ppm	0.4037 ppm	0.9652 ppm	0.9715 ppm
Concentration per Run 1	0.999 ppm	0.404 ppm	0.970 ppm	0.974 ppm
Concentration per Run 2	1.002 ppm	0.403 ppm	0.962 ppm	0.970 ppm
Concentration per Run 3	0.997 ppm	0.405 ppm	0.964 ppm	0.971 ppm
Concentration RSD	0.3 %	0.3 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	10.6558 ppm	94.8000 %	104.7933 %	99.4161 %
Concentration per Run 1	10.686 ppm	94.523 %	104.158 %	99.265 %
Concentration per Run 2	10.645 ppm	94.792 %	104.889 %	99.567 %
Concentration per Run 3	10.636 ppm	95.085 %	105.333 %	99.416 %
Concentration RSD	0.3 %	0.3 %	0.6 %	0.2 %
Concentration SD	0.0 ppm	0.3 %	0.6 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.0820 %	-0.0301 ppm
Concentration per Run 1	99.892 %	-0.083 ppm
Concentration per Run 2	100.082 %	-0.015 ppm
Concentration per Run 3	100.272 %	0.007 ppm
Concentration RSD	0.2 %	156.3 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	527 cps	7,481 cps	8,530 cps	8,979 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	773 cps	388 cps	8,666 cps	469 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	2,024 cps	5,420 cps	653 cps	5,262 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	226 cps	10,536 cps	4,554 cps	2,378 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	428 cps	5,227 cps	13,649 cps	906 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	526 cps	19,122 cps	5,455 cps	495 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	54,689 cps	441 cps	1,377 cps	4,127 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	278 cps	8,165 cps	2,383 cps	1,072 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2,732 cps	4,767 cps	7,578 cps	168,783 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,700 cps	12 cps

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Sample Type QC Analysis Date 10/19/2015 9:12:45 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0005 ppm	0.0000 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	-0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	212.2 %	176.5 %	1,641.4 %	246.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0012 ppm	0.0035 ppm	0.0007 ppm	0.0002 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	-0.004 ppm
Concentration per Run 2	0.000 ppm	0.007 ppm	0.001 ppm	0.009 ppm
Concentration per Run 3	0.002 ppm	0.003 ppm	0.001 ppm	-0.004 ppm
Concentration RSD	65.1 %	96.5 %	139.6 %	4,669.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0006 ppm	0.0001 ppm	-0.0138 ppm	0.0074 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.016 ppm	0.004 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.020 ppm	0.009 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	-0.045 ppm	0.009 ppm
Concentration RSD	27.0 %	92.4 %	235.5 %	37.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0838 ppm	0.0004 ppm	0.0021 ppm	-0.0130 ppm
Concentration per Run 1	-0.024 ppm	0.000 ppm	0.005 ppm	-0.023 ppm
Concentration per Run 2	-0.189 ppm	0.002 ppm	0.004 ppm	0.001 ppm
Concentration per Run 3	-0.038 ppm	-0.001 ppm	-0.002 ppm	-0.017 ppm
Concentration RSD	109.5 %	343.5 %	167.0 %	96.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0490 ppm	0.0168 ppm	0.0422 ppm	0.1723 ppm
Concentration per Run 1	0.057 ppm	0.010 ppm	0.049 ppm	0.151 ppm
Concentration per Run 2	0.021 ppm	0.029 ppm	0.033 ppm	0.333 ppm
Concentration per Run 3	0.069 ppm	0.011 ppm	0.045 ppm	0.033 ppm
Concentration RSD	50.6 %	63.3 %	20.1 %	87.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0023 ppm	0.0001 ppm	0.0000 ppm	-0.0001 ppm
Concentration per Run 1	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.003 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	21.3 %	235.8 %	493.2 %	455.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0000 ppm	-0.0007 ppm	0.0036 ppm	0.0005 ppm
Concentration per Run 1	0.000 ppm	-0.001 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.001 ppm	0.003 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.006 ppm	0.001 ppm
Concentration RSD	165.5 %	110.7 %	71.2 %	15.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0137 ppm	0.0003 ppm	0.0039 ppm	-0.0006 ppm
Concentration per Run 1	0.006 ppm	0.000 ppm	0.003 ppm	0.000 ppm
Concentration per Run 2	0.020 ppm	0.000 ppm	0.005 ppm	-0.001 ppm
Concentration per Run 3	0.015 ppm	0.000 ppm	0.004 ppm	-0.001 ppm
Concentration RSD	53.0 %	40.2 %	15.7 %	75.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0020 ppm	102.9173 %	105.6796 %	103.4442 %
Concentration per Run 1	0.003 ppm	102.819 %	105.772 %	103.556 %
Concentration per Run 2	0.003 ppm	102.863 %	105.802 %	103.632 %
Concentration per Run 3	0.000 ppm	103.070 %	105.465 %	103.145 %
Concentration RSD	96.6 %	0.1 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	0.2 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	102.3090 %	-0.0448 ppm
Concentration per Run 1	102.185 %	-0.044 ppm
Concentration per Run 2	102.302 %	-0.047 ppm
Concentration per Run 3	102.440 %	-0.043 ppm
Concentration RSD	0.1 %	4.6 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	4 cps	2 cps	4 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	1 cps	-12 cps	10 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	2 cps	12 cps	5 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	0 cps	13 cps	64 cps	21 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2 cps	106 cps	9 cps	-74 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	-3 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	20 cps	-1 cps	4 cps	5 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	5 cps	-22 cps	51 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	0 cps	5,176 cps	7,642 cps	175,621 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	18,094 cps	8 cps

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Sample Type QC Analysis Date 10/19/2015 9:15:53 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0086 ppm	0.0052 ppm	0.0020 ppm	0.0099 ppm
Concentration per Run 1	0.008 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration per Run 2	0.008 ppm	0.005 ppm	0.002 ppm	0.009 ppm
Concentration per Run 3	0.010 ppm	0.005 ppm	0.002 ppm	0.010 ppm
Concentration RSD	13.0 %	3.9 %	7.1 %	4.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0063 ppm	0.0149 ppm	0.0053 ppm	0.0186 ppm
Concentration per Run 1	0.006 ppm	0.016 ppm	0.005 ppm	0.017 ppm
Concentration per Run 2	0.006 ppm	0.016 ppm	0.006 ppm	0.021 ppm
Concentration per Run 3	0.007 ppm	0.013 ppm	0.005 ppm	0.018 ppm
Concentration RSD	9.3 %	9.8 %	13.1 %	9.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0101 ppm	0.0508 ppm	0.1851 ppm	0.1059 ppm
Concentration per Run 1	0.010 ppm	0.051 ppm	0.212 ppm	0.107 ppm
Concentration per Run 2	0.010 ppm	0.051 ppm	0.172 ppm	0.110 ppm
Concentration per Run 3	0.010 ppm	0.050 ppm	0.172 ppm	0.101 ppm
Concentration RSD	2.1 %	1.1 %	12.5 %	4.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0939 ppm	0.0152 ppm	1.0203 ppm	1.0602 ppm
Concentration per Run 1	0.035 ppm	0.014 ppm	1.016 ppm	1.053 ppm
Concentration per Run 2	0.169 ppm	0.015 ppm	1.019 ppm	1.067 ppm
Concentration per Run 3	0.077 ppm	0.017 ppm	1.026 ppm	1.060 ppm
Concentration RSD	72.9 %	9.4 %	0.5 %	0.7 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	1.0358 ppm	1.1201 ppm	1.0314 ppm	1.0082 ppm
Concentration per Run 1	1.071 ppm	1.111 ppm	1.017 ppm	1.299 ppm
Concentration per Run 2	1.026 ppm	1.128 ppm	1.043 ppm	0.962 ppm
Concentration per Run 3	1.011 ppm	1.121 ppm	1.034 ppm	0.763 ppm
Concentration RSD	3.0 %	0.8 %	1.3 %	26.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.3 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0101 ppm	0.0019 ppm	0.0095 ppm	0.0103 ppm
Concentration per Run 1	0.010 ppm	0.002 ppm	0.010 ppm	0.010 ppm
Concentration per Run 2	0.011 ppm	0.002 ppm	0.010 ppm	0.011 ppm
Concentration per Run 3	0.009 ppm	0.002 ppm	0.009 ppm	0.011 ppm
Concentration RSD	11.9 %	6.7 %	1.0 %	3.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0104 ppm	0.0231 ppm	0.0523 ppm	0.0050 ppm
Concentration per Run 1	0.010 ppm	0.021 ppm	0.050 ppm	0.005 ppm
Concentration per Run 2	0.010 ppm	0.027 ppm	0.053 ppm	0.005 ppm
Concentration per Run 3	0.010 ppm	0.022 ppm	0.054 ppm	0.005 ppm
Concentration RSD	0.4 %	13.1 %	3.4 %	4.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0518 ppm	0.0102 ppm	0.0504 ppm	0.0478 ppm
Concentration per Run 1	0.056 ppm	0.010 ppm	0.049 ppm	0.048 ppm
Concentration per Run 2	0.051 ppm	0.010 ppm	0.049 ppm	0.048 ppm
Concentration per Run 3	0.049 ppm	0.010 ppm	0.054 ppm	0.047 ppm
Concentration RSD	7.4 %	2.0 %	5.9 %	1.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	1.0486 ppm	100.7131 %	104.5519 %	102.3818 %
Concentration per Run 1	1.057 ppm	100.652 %	104.520 %	102.571 %
Concentration per Run 2	1.049 ppm	100.808 %	103.930 %	102.494 %
Concentration per Run 3	1.039 ppm	100.679 %	105.206 %	102.081 %
Concentration RSD	0.9 %	0.1 %	0.6 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	0.6 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.5181 %	-0.0036 ppm
Concentration per Run 1	101.625 %	0.020 ppm
Concentration per Run 2	101.481 %	-0.003 ppm
Concentration per Run 3	101.448 %	-0.028 ppm
Concentration RSD	0.1 %	662.9 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	2 cps	42 cps	19 cps	94 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	3 cps	5 cps	30 cps	18 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	18 cps	281 cps	24 cps	55 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	3 cps	171 cps	512 cps	255 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	44 cps	618 cps	1,348 cps	6 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	7 cps	32 cps	54 cps	2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	601 cps	10 cps	70 cps	24 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	16 cps	180 cps	167 cps	55 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	272 cps	5,065 cps	7,560 cps	173,818 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,954 cps	20 cps

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ICSA 15I21332

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	-0.0129 ppm	0.0028 ppm	0.0007 ppm
Concentration per Run 1	-0.012 ppm	0.003 ppm	0.001 ppm
Concentration per Run 2	-0.015 ppm	0.003 ppm	0.001 ppm
Concentration per Run 3	-0.012 ppm	0.003 ppm	0.001 ppm
Concentration RSD	14.5 %	6.5 %	13.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0017 ppm	-0.0287 ppm	0.0108 ppm
Concentration per Run 1	0.002 ppm	-0.031 ppm	0.011 ppm
Concentration per Run 2	0.002 ppm	-0.027 ppm	0.009 ppm
Concentration per Run 3	0.001 ppm	-0.028 ppm	0.012 ppm
Concentration RSD	28.1 %	6.3 %	16.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0003 ppm	0.0082 ppm	0.0116 ppm
Concentration per Run 1	-0.001 ppm	0.005 ppm	0.010 ppm
Concentration per Run 2	0.001 ppm	0.015 ppm	0.013 ppm
Concentration per Run 3	0.001 ppm	0.005 ppm	0.012 ppm
Concentration RSD	356.9 %	73.3 %	9.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0098 ppm	502.4431 ppm	178.7855 ppm
Concentration per Run 1	0.010 ppm	504.236 ppm	179.566 ppm
Concentration per Run 2	0.010 ppm	502.731 ppm	178.985 ppm
Concentration per Run 3	0.010 ppm	500.363 ppm	177.806 ppm
Concentration RSD	1.0 %	0.4 %	0.5 %
Concentration SD	0.0 ppm	2.0 ppm	0.9 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	195.0015 ppm	0.0175 ppm	455.3718 ppm
Concentration per Run 1	195.553 ppm	0.019 ppm	455.454 ppm
Concentration per Run 2	194.729 ppm	0.015 ppm	455.811 ppm
Concentration per Run 3	194.723 ppm	0.018 ppm	454.851 ppm
Concentration RSD	0.2 %	10.4 %	0.1 %
Concentration SD	0.5 ppm	0.0 ppm	0.5 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	491.5080 ppm	480.4335 ppm	0.0550 ppm
Concentration per Run 1	493.548 ppm	483.329 ppm	0.076 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	491.607 ppm	480.184 ppm	0.039 ppm
Concentration per Run 3	489.369 ppm	477.788 ppm	0.051 ppm
Concentration RSD	0.4 %	0.6 %	34.5 %
Concentration SD	2.1 ppm	2.8 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	0.2118 ppm	0.3808 ppm	0.0100 ppm
Concentration per Run 1	0.199 ppm	0.526 ppm	0.011 ppm
Concentration per Run 2	0.219 ppm	0.345 ppm	0.008 ppm
Concentration per Run 3	0.218 ppm	0.272 ppm	0.010 ppm
Concentration RSD	5.3 %	34.3 %	14.9 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0001 ppm	-0.0007 ppm	-0.0072 ppm
Concentration per Run 1	0.000 ppm	-0.001 ppm	-0.010 ppm
Concentration per Run 2	0.000 ppm	-0.001 ppm	-0.005 ppm
Concentration per Run 3	0.000 ppm	-0.001 ppm	-0.007 ppm
Concentration RSD	221.8 %	41.5 %	36.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.0038 ppm	0.0068 ppm	0.0214 ppm
Concentration per Run 1	0.004 ppm	0.006 ppm	0.023 ppm
Concentration per Run 2	0.004 ppm	0.009 ppm	0.019 ppm
Concentration per Run 3	0.004 ppm	0.005 ppm	0.022 ppm
Concentration RSD	2.0 %	34.9 %	9.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0000 ppm	0.0002 ppm	0.0061 ppm
Concentration per Run 1	0.000 ppm	-0.003 ppm	0.006 ppm
Concentration per Run 2	0.000 ppm	-0.009 ppm	0.007 ppm
Concentration per Run 3	0.000 ppm	0.012 ppm	0.006 ppm
Concentration RSD	976.8 %	6,508.6 %	6.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	-0.0045 ppm	0.0000 ppm	0.0096 ppm
Concentration per Run 1	-0.005 ppm	0.000 ppm	0.013 ppm
Concentration per Run 2	-0.005 ppm	0.001 ppm	0.009 ppm
Concentration per Run 3	-0.004 ppm	-0.001 ppm	0.008 ppm
Concentration RSD	10.0 %	24,722.9 %	26.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	73.2437 %	100.5220 %	86.6713 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	73.008 %	99.938 %	86.945 %
Concentration per Run 2	73.160 %	100.507 %	86.410 %
Concentration per Run 3	73.562 %	101.121 %	86.660 %
Concentration RSD	0.4 %	0.6 %	0.3 %
Concentration SD	0.3 %	0.6 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	88.0168 %	0.1157 ppm
Concentration per Run 1	87.910 %	0.094 ppm
Concentration per Run 2	87.887 %	0.126 ppm
Concentration per Run 3	88.253 %	0.127 ppm
Concentration RSD	0.2 %	16.0 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-8 cps	21 cps	7 cps	15 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-19 cps	3 cps	-13 cps	13 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	15 cps	48 cps	29,558 cps	88,079 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	3,844 cps	188 cps	192,973 cps	103,414 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	19,610 cps	118 cps	230 cps	-52 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	6 cps	-2 cps	-5 cps	-5 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	195 cps	3 cps	27 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	1 cps	93 cps	25 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2 cps	3,683 cps	7,269 cps	147,145 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	15,566 cps	52 cps

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Sample Type QC Analysis Date 10/19/2015 9:22:14 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.4835 ppm	0.4676 ppm	0.9963 ppm
Concentration per Run 1	0.480 ppm	0.467 ppm	0.996 ppm
Concentration per Run 2	0.483 ppm	0.469 ppm	0.999 ppm
Concentration per Run 3	0.487 ppm	0.466 ppm	0.993 ppm
Concentration RSD	0.7 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4448 ppm	0.9264 ppm	0.5131 ppm
Concentration per Run 1	0.448 ppm	0.930 ppm	0.509 ppm
Concentration per Run 2	0.444 ppm	0.926 ppm	0.515 ppm
Concentration per Run 3	0.443 ppm	0.924 ppm	0.515 ppm
Concentration RSD	0.6 %	0.3 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	1.0473 ppm	0.4762 ppm	0.9874 ppm
Concentration per Run 1	1.043 ppm	0.479 ppm	0.989 ppm
Concentration per Run 2	1.047 ppm	0.475 ppm	0.988 ppm
Concentration per Run 3	1.051 ppm	0.475 ppm	0.985 ppm
Concentration RSD	0.4 %	0.5 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.8804 ppm	491.1768 ppm	174.6348 ppm
Concentration per Run 1	0.882 ppm	493.864 ppm	175.619 ppm
Concentration per Run 2	0.881 ppm	490.501 ppm	174.618 ppm
Concentration per Run 3	0.878 ppm	489.166 ppm	173.667 ppm
Concentration RSD	0.3 %	0.5 %	0.6 %
Concentration SD	0.0 ppm	2.4 ppm	1.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	190.0375 ppm	0.0188 ppm	439.7154 ppm
Concentration per Run 1	190.256 ppm	0.019 ppm	439.527 ppm
Concentration per Run 2	189.881 ppm	0.019 ppm	434.905 ppm
Concentration per Run 3	189.976 ppm	0.019 ppm	444.714 ppm
Concentration RSD	0.1 %	0.8 %	1.1 %
Concentration SD	0.2 ppm	0.0 ppm	4.9 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	479.7706 ppm	467.4714 ppm	0.0300 ppm
Concentration per Run 1	482.129 ppm	470.609 ppm	0.054 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	479.581 ppm	467.029 ppm	-0.002 ppm
Concentration per Run 3	477.602 ppm	464.776 ppm	0.037 ppm
Concentration RSD	0.5 %	0.6 %	96.4 %
Concentration SD	2.3 ppm	2.9 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	0.2012 ppm	0.5178 ppm	0.4963 ppm
Concentration per Run 1	0.202 ppm	0.584 ppm	0.495 ppm
Concentration per Run 2	0.206 ppm	0.655 ppm	0.498 ppm
Concentration per Run 3	0.196 ppm	0.315 ppm	0.496 ppm
Concentration RSD	2.3 %	34.6 %	0.3 %
Concentration SD	0.0 ppm	0.2 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.4737 ppm	0.4915 ppm	0.4435 ppm
Concentration per Run 1	0.474 ppm	0.491 ppm	0.437 ppm
Concentration per Run 2	0.474 ppm	0.493 ppm	0.445 ppm
Concentration per Run 3	0.473 ppm	0.490 ppm	0.448 ppm
Concentration RSD	0.1 %	0.2 %	1.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.4529 ppm	0.4600 ppm	0.4867 ppm
Concentration per Run 1	0.453 ppm	0.468 ppm	0.488 ppm
Concentration per Run 2	0.453 ppm	0.460 ppm	0.487 ppm
Concentration per Run 3	0.453 ppm	0.453 ppm	0.484 ppm
Concentration RSD	0.1 %	1.6 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.4580 ppm	0.9248 ppm	0.0062 ppm
Concentration per Run 1	0.457 ppm	0.927 ppm	0.006 ppm
Concentration per Run 2	0.460 ppm	0.917 ppm	0.006 ppm
Concentration per Run 3	0.457 ppm	0.930 ppm	0.006 ppm
Concentration RSD	0.4 %	0.7 %	2.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	0.8979 ppm	0.4165 ppm	0.0084 ppm
Concentration per Run 1	0.898 ppm	0.417 ppm	0.001 ppm
Concentration per Run 2	0.898 ppm	0.418 ppm	0.010 ppm
Concentration per Run 3	0.898 ppm	0.415 ppm	0.014 ppm
Concentration RSD	0.1 %	0.3 %	77.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	73.5523 %	102.2075 %	87.5489 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	73.673 %	101.295 %	87.468 %
Concentration per Run 2	73.448 %	102.429 %	87.471 %
Concentration per Run 3	73.535 %	102.899 %	87.707 %
Concentration RSD	0.2 %	0.8 %	0.2 %
Concentration SD	0.1 %	0.8 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	88.3723 %	0.1202 ppm
Concentration per Run 1	88.688 %	0.145 ppm
Concentration per Run 2	88.119 %	0.099 ppm
Concentration per Run 3	88.309 %	0.116 ppm
Concentration RSD	0.3 %	19.5 %
Concentration SD	0.3 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	224 cps	3,033 cps	7,543 cps	3,543 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	564 cps	173 cps	8,187 cps	223 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1,552 cps	4,231 cps	29,380 cps	87,476 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	3,809 cps	205 cps	189,469 cps	102,637 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	19,401 cps	109 cps	219 cps	-40 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	231 cps	8,709 cps	2,104 cps	173 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	21,800 cps	195 cps	643 cps	1,634 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	251 cps	96 cps	1,955 cps	407 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1 cps	3,699 cps	7,391 cps	148,635 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	15,629 cps	53 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0028 ppm	0.0000 ppm	0.0002 ppm	0.0005 ppm
Concentration per Run 1	-0.003 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	-0.004 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	46.0 %	145.0 %	26.4 %	98.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0022 ppm	0.0053 ppm	0.0003 ppm	0.0022 ppm
Concentration per Run 1	0.002 ppm	0.005 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 2	0.004 ppm	0.006 ppm	0.000 ppm	0.005 ppm
Concentration per Run 3	0.002 ppm	0.005 ppm	0.000 ppm	0.004 ppm
Concentration RSD	52.8 %	6.4 %	25.7 %	182.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	-0.0002 ppm	0.0002 ppm	0.0289 ppm	0.0118 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.074 ppm	0.011 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	0.006 ppm	0.011 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.006 ppm	0.014 ppm
Concentration RSD	165.3 %	59.3 %	135.3 %	14.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0460 ppm	-0.0006 ppm	0.0265 ppm	0.0051 ppm
Concentration per Run 1	0.035 ppm	0.000 ppm	0.033 ppm	0.007 ppm
Concentration per Run 2	-0.076 ppm	0.000 ppm	0.027 ppm	0.002 ppm
Concentration per Run 3	-0.097 ppm	-0.001 ppm	0.020 ppm	0.006 ppm
Concentration RSD	154.2 %	133.1 %	24.1 %	48.0 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0199 ppm	0.0092 ppm	16.2211 ppm	16.9365 ppm
Concentration per Run 1	0.001 ppm	0.037 ppm	16.158 ppm	16.979 ppm
Concentration per Run 2	0.047 ppm	0.014 ppm	16.257 ppm	16.925 ppm
Concentration per Run 3	0.012 ppm	-0.024 ppm	16.249 ppm	16.905 ppm
Concentration RSD	120.2 %	332.5 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0010 ppm	0.0001 ppm	-0.0004 ppm	-0.0003 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	69.6 %	125.9 %	18.8 %	333.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0000 ppm	0.0021 ppm	0.0021 ppm	0.0002 ppm
Concentration per Run 1	0.000 ppm	0.003 ppm	0.003 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.003 ppm	0.002 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.007 ppm	0.001 ppm	0.000 ppm
Concentration RSD	160.2 %	241.3 %	53.1 %	62.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0009 ppm	0.0000 ppm	8.8050 ppm	-0.0001 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	8.798 ppm	0.000 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	8.807 ppm	-0.001 ppm
Concentration per Run 3	-0.001 ppm	0.000 ppm	8.810 ppm	0.000 ppm
Concentration RSD	61.5 %	1,288.8 %	0.1 %	480.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0072 ppm	97.8644 %	105.4607 %	101.2007 %
Concentration per Run 1	0.004 ppm	98.216 %	105.497 %	101.021 %
Concentration per Run 2	0.009 ppm	97.574 %	105.580 %	101.438 %
Concentration per Run 3	0.009 ppm	97.803 %	105.305 %	101.143 %
Concentration RSD	40.7 %	0.3 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.3 %	0.1 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.7384 %	-0.0418 ppm
Concentration per Run 1	102.102 %	-0.086 ppm
Concentration per Run 2	101.575 %	-0.016 ppm
Concentration per Run 3	101.538 %	-0.023 ppm
Concentration RSD	0.3 %	91.9 %
Concentration SD	0.3 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	4 cps	3 cps	7 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	0 cps	1 cps	-15 cps	11 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-4 cps	2 cps	14 cps	7 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	0 cps	2 cps	74 cps	25 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	102 cps	22,086 cps	1,526 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	-3 cps	-4 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	20 cps	1 cps	2 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	1 cps	-27 cps	21,802 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1 cps	4,922 cps	7,626 cps	171,813 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,993 cps	9 cps

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Sample Type QC Analysis Date 10/19/2015 9:28:18 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0010 ppm	0.0003 ppm	-0.0001 ppm	9.7642 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	9.793 ppm
Concentration per Run 2	0.002 ppm	0.000 ppm	0.000 ppm	9.758 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	9.742 ppm
Concentration RSD	147.2 %	15.3 %	165.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	-0.0078 ppm	0.0111 ppm	0.0013 ppm	9.7104 ppm
Concentration per Run 1	-0.008 ppm	0.008 ppm	0.001 ppm	9.752 ppm
Concentration per Run 2	-0.007 ppm	0.013 ppm	0.001 ppm	9.691 ppm
Concentration per Run 3	-0.008 ppm	0.012 ppm	0.002 ppm	9.688 ppm
Concentration RSD	7.5 %	21.4 %	27.4 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0003 ppm	-0.0199 ppm	-0.0043 ppm	0.0135 ppm
Concentration per Run 1	0.000 ppm	-0.020 ppm	-0.009 ppm	0.016 ppm
Concentration per Run 2	0.000 ppm	-0.020 ppm	-0.041 ppm	0.012 ppm
Concentration per Run 3	0.000 ppm	-0.019 ppm	0.038 ppm	0.012 ppm
Concentration RSD	26.8 %	3.0 %	927.8 %	14.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0720 ppm	-0.0006 ppm	0.0182 ppm	0.0107 ppm
Concentration per Run 1	0.011 ppm	0.000 ppm	0.017 ppm	0.003 ppm
Concentration per Run 2	-0.088 ppm	0.000 ppm	0.019 ppm	0.000 ppm
Concentration per Run 3	-0.139 ppm	-0.001 ppm	0.019 ppm	0.029 ppm
Concentration RSD	106.5 %	112.9 %	6.4 %	150.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0200 ppm	-0.0061 ppm	0.0111 ppm	0.0392 ppm
Concentration per Run 1	0.008 ppm	-0.017 ppm	0.009 ppm	0.029 ppm
Concentration per Run 2	-0.016 ppm	-0.025 ppm	0.012 ppm	0.055 ppm
Concentration per Run 3	-0.052 ppm	0.024 ppm	0.012 ppm	0.033 ppm
Concentration RSD	149.3 %	433.3 %	15.5 %	35.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0107 ppm	0.0001 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 1	-0.007 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	-0.008 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	-0.017 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	54.0 %	99.5 %	50.0 %	299.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	9.5631 ppm	-0.0190 ppm	0.0064 ppm	-0.0002 ppm
Concentration per Run 1	9.625 ppm	-0.020 ppm	0.006 ppm	0.000 ppm
Concentration per Run 2	9.501 ppm	-0.019 ppm	0.008 ppm	0.000 ppm
Concentration per Run 3	9.564 ppm	-0.018 ppm	0.005 ppm	0.000 ppm
Concentration RSD	0.6 %	7.2 %	17.5 %	82.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0049 ppm	0.0003 ppm	0.0032 ppm	-0.0008 ppm
Concentration per Run 1	0.008 ppm	0.000 ppm	0.003 ppm	-0.001 ppm
Concentration per Run 2	0.007 ppm	0.000 ppm	0.003 ppm	-0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.003 ppm	-0.001 ppm
Concentration RSD	91.3 %	87.0 %	9.9 %	28.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0475 ppm	101.4390 %	105.5805 %	102.7306 %
Concentration per Run 1	0.048 ppm	101.097 %	104.797 %	102.299 %
Concentration per Run 2	0.052 ppm	101.468 %	105.683 %	102.847 %
Concentration per Run 3	0.043 ppm	101.752 %	106.262 %	103.046 %
Concentration RSD	9.2 %	0.3 %	0.7 %	0.4 %
Concentration SD	0.0 ppm	0.3 %	0.7 %	0.4 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	102.3910 %	-0.0285 ppm
Concentration per Run 1	102.107 %	-0.041 ppm
Concentration per Run 2	102.379 %	-0.067 ppm
Concentration per Run 3	102.688 %	0.023 ppm
Concentration RSD	0.3 %	164.0 %
Concentration SD	0.3 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	6 cps	1 cps	91,218 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-9 cps	4 cps	-6 cps	4,503 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-4 cps	-110 cps	12 cps	8 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	0 cps	2 cps	71 cps	26 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	-1 cps	95 cps	-33 cps	-87 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	-5 cps	-1 cps	-1 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	539,811 cps	-9 cps	8 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-22 cps	49 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	12 cps	5,101 cps	7,635 cps	174,410 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	18,108 cps	13 cps

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Sample Type UNKNOWN Analysis Date 10/19/2015 9:31:33 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0096 ppm	0.0001 ppm	0.0004 ppm	0.0000 ppm
Concentration per Run 1	-0.008 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	-0.011 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.010 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	17.8 %	198.3 %	40.0 %	1,859.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0002 ppm	-0.0091 ppm	-0.0006 ppm	-0.0014 ppm
Concentration per Run 1	0.000 ppm	-0.010 ppm	-0.001 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.010 ppm	0.000 ppm	-0.006 ppm
Concentration per Run 3	0.001 ppm	-0.007 ppm	0.000 ppm	0.002 ppm
Concentration RSD	193.5 %	18.1 %	70.8 %	273.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0004 ppm	0.0009 ppm	0.0669 ppm	0.0121 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.085 ppm	0.014 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	0.077 ppm	0.011 ppm
Concentration per Run 3	0.001 ppm	0.001 ppm	0.039 ppm	0.012 ppm
Concentration RSD	38.4 %	0.7 %	36.3 %	13.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.1710 ppm	-0.0013 ppm	0.0535 ppm	0.0195 ppm
Concentration per Run 1	-0.102 ppm	0.000 ppm	0.059 ppm	0.028 ppm
Concentration per Run 2	-0.193 ppm	-0.003 ppm	0.055 ppm	0.013 ppm
Concentration per Run 3	-0.218 ppm	-0.001 ppm	0.047 ppm	0.018 ppm
Concentration RSD	35.7 %	96.2 %	12.1 %	39.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0222 ppm	0.0148 ppm	-0.0012 ppm	0.1591 ppm
Concentration per Run 1	0.020 ppm	0.035 ppm	0.003 ppm	0.251 ppm
Concentration per Run 2	0.069 ppm	-0.025 ppm	-0.002 ppm	0.132 ppm
Concentration per Run 3	-0.023 ppm	0.034 ppm	-0.005 ppm	0.094 ppm
Concentration RSD	206.5 %	230.7 %	332.5 %	51.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0131 ppm	0.0004 ppm	0.0000 ppm	-0.0285 ppm
Concentration per Run 1	-0.012 ppm	0.000 ppm	0.000 ppm	-0.030 ppm
Concentration per Run 2	-0.014 ppm	0.000 ppm	0.000 ppm	-0.029 ppm
Concentration per Run 3	-0.013 ppm	0.000 ppm	0.000 ppm	-0.027 ppm
Concentration RSD	9.2 %	10.5 %	1,509.6 %	5.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0006 ppm	0.0001 ppm	0.0007 ppm	-0.0006 ppm
Concentration per Run 1	0.001 ppm	-0.002 ppm	0.004 ppm	-0.001 ppm
Concentration per Run 2	0.001 ppm	0.002 ppm	-0.003 ppm	-0.001 ppm
Concentration per Run 3	0.001 ppm	0.001 ppm	0.001 ppm	0.000 ppm
Concentration RSD	13.0 %	2,327.2 %	470.0 %	21.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0119 ppm	0.0015 ppm	0.0270 ppm	0.0010 ppm
Concentration per Run 1	0.013 ppm	0.001 ppm	0.028 ppm	0.001 ppm
Concentration per Run 2	0.013 ppm	0.001 ppm	0.025 ppm	0.001 ppm
Concentration per Run 3	0.009 ppm	0.002 ppm	0.028 ppm	0.001 ppm
Concentration RSD	17.6 %	18.5 %	6.1 %	32.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	-0.0051 ppm	104.0245 %	106.5393 %	104.6026 %
Concentration per Run 1	-0.007 ppm	103.977 %	105.358 %	104.389 %
Concentration per Run 2	-0.003 ppm	103.994 %	106.449 %	104.766 %
Concentration per Run 3	-0.006 ppm	104.103 %	107.811 %	104.653 %
Concentration RSD	38.3 %	0.1 %	1.2 %	0.2 %
Concentration SD	0.0 ppm	0.1 %	1.2 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	104.1389 %	10.2084 ppm
Concentration per Run 1	104.216 %	10.055 ppm
Concentration per Run 2	104.094 %	10.223 ppm
Concentration per Run 3	104.107 %	10.348 ppm
Concentration RSD	0.1 %	1.4 %
Concentration SD	0.1 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-8 cps	4 cps	5 cps	2 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	-4 cps	-25 cps	9 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	6 cps	17 cps	7 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	-2 cps	-5 cps	87 cps	28 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	106 cps	-50 cps	-76 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	-6 cps	5 cps	-2 cps	-19 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	53 cps	0 cps	0 cps	1 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	5 cps	3 cps	111 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-2 cps	5,231 cps	7,704 cps	177,588 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	18,417 cps	2,799 cps

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Sample Type UNKNOWN Analysis Date 10/19/2015 9:42:39 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0013 ppm	0.0000 ppm	0.0001 ppm	-0.0001 ppm
Concentration per Run 1	-0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	-0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	121.7 %	3,319.3 %	109.7 %	198.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	-0.0004 ppm	0.0053 ppm	0.0003 ppm	0.0014 ppm
Concentration per Run 1	0.000 ppm	0.006 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	-0.001 ppm	0.007 ppm	0.000 ppm	0.008 ppm
Concentration per Run 3	0.000 ppm	0.003 ppm	0.001 ppm	-0.005 ppm
Concentration RSD	141.5 %	43.4 %	122.2 %	445.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0007 ppm	-0.0002 ppm	-0.0392 ppm	0.0030 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	-0.010 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.057 ppm	0.004 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	-0.050 ppm	0.004 ppm
Concentration RSD	37.4 %	26.4 %	64.6 %	70.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0412 ppm	-0.0008 ppm	0.0021 ppm	-0.0160 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.000 ppm	-0.011 ppm
Concentration per Run 2	0.080 ppm	-0.001 ppm	0.001 ppm	-0.007 ppm
Concentration per Run 3	-0.208 ppm	-0.002 ppm	0.006 ppm	-0.030 ppm
Concentration RSD	362.8 %	136.5 %	146.8 %	78.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0187 ppm	-0.0293 ppm	-0.0024 ppm	0.0115 ppm
Concentration per Run 1	-0.003 ppm	-0.021 ppm	0.010 ppm	0.028 ppm
Concentration per Run 2	0.041 ppm	-0.056 ppm	-0.003 ppm	-0.046 ppm
Concentration per Run 3	0.017 ppm	-0.011 ppm	-0.014 ppm	0.053 ppm
Concentration RSD	117.5 %	80.3 %	493.7 %	445.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0011 ppm	0.0000 ppm	-0.0001 ppm	0.0006 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	-0.002 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	115.3 %	878.5 %	369.8 %	2.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0000 ppm	0.0010 ppm	0.0015 ppm	0.0000 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.002 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.002 ppm	0.003 ppm	0.000 ppm
Concentration RSD	8,714.8 %	123.8 %	73.4 %	403.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	-0.0029 ppm	0.0002 ppm	0.0008 ppm	-0.0007 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.001 ppm	-0.001 ppm
Concentration per Run 2	-0.004 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 3	-0.005 ppm	0.000 ppm	0.001 ppm	0.000 ppm
Concentration RSD	86.3 %	98.9 %	68.7 %	54.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	-0.0010 ppm	103.7691 %	105.9785 %	103.8732 %
Concentration per Run 1	0.001 ppm	103.705 %	106.181 %	103.772 %
Concentration per Run 2	0.000 ppm	103.984 %	105.808 %	103.736 %
Concentration per Run 3	-0.004 ppm	103.618 %	105.947 %	104.112 %
Concentration RSD	300.5 %	0.2 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.2 %	0.2 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	102.9412 %	-0.0255 ppm
Concentration per Run 1	102.851 %	-0.019 ppm
Concentration per Run 2	103.187 %	-0.027 ppm
Concentration per Run 3	102.785 %	-0.031 ppm
Concentration RSD	0.2 %	23.2 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	4 cps	2 cps	1 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-3 cps	1 cps	-16 cps	10 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	0 cps	10 cps	2 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	0 cps	0 cps	64 cps	20 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	85 cps	-52 cps	-90 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-4 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	18 cps	0 cps	1 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	1 cps	-24 cps	44 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	-1 cps	5,219 cps	7,664 cps	176,350 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	18,205 cps	14 cps

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Sample Type UNKNOWN Analysis Date 10/19/2015 9:45:47 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.1354 ppm	0.0186 ppm	-0.0029 ppm	0.0298 ppm
Concentration per Run 1	-0.106 ppm	0.017 ppm	-0.002 ppm	0.058 ppm
Concentration per Run 2	0.052 ppm	-0.004 ppm	-0.010 ppm	0.025 ppm
Concentration per Run 3	-0.352 ppm	0.043 ppm	0.003 ppm	0.007 ppm
Concentration RSD	150.4 %	127.5 %	226.0 %	86.3 %
Concentration SD	0.2 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0808 ppm	0.2889 ppm	0.0540 ppm	0.0302 ppm
Concentration per Run 1	0.060 ppm	0.316 ppm	0.120 ppm	-0.267 ppm
Concentration per Run 2	0.078 ppm	0.158 ppm	0.085 ppm	0.050 ppm
Concentration per Run 3	0.104 ppm	0.393 ppm	-0.044 ppm	0.308 ppm
Concentration RSD	27.5 %	41.4 %	160.0 %	953.0 %
Concentration SD	0.0 ppm	0.1 ppm	0.1 ppm	0.3 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0955 ppm	0.0923 ppm	-0.6635 ppm	1.6758 ppm
Concentration per Run 1	0.116 ppm	0.073 ppm	-1.791 ppm	1.849 ppm
Concentration per Run 2	0.069 ppm	0.106 ppm	1.127 ppm	1.390 ppm
Concentration per Run 3	0.101 ppm	0.097 ppm	-1.327 ppm	1.788 ppm
Concentration RSD	25.6 %	18.6 %	236.3 %	14.9 %
Concentration SD	0.0 ppm	0.0 ppm	1.6 ppm	0.2 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-2.0991 ppm	-0.0543 ppm	2.7798 ppm	0.3690 ppm
Concentration per Run 1	-4.182 ppm	-0.003 ppm	3.130 ppm	1.523 ppm
Concentration per Run 2	1.719 ppm	0.018 ppm	2.651 ppm	-0.118 ppm
Concentration per Run 3	-3.834 ppm	-0.178 ppm	2.558 ppm	-0.298 ppm
Concentration RSD	157.7 %	198.1 %	11.1 %	271.9 %
Concentration SD	3.3 ppm	0.1 ppm	0.3 ppm	1.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	2.0386 ppm	2.9663 ppm	7.2779 ppm	23.3961 ppm
Concentration per Run 1	2.300 ppm	3.806 ppm	7.837 ppm	33.093 ppm
Concentration per Run 2	4.570 ppm	1.251 ppm	7.265 ppm	18.408 ppm
Concentration per Run 3	-0.755 ppm	3.842 ppm	6.732 ppm	18.688 ppm
Concentration RSD	131.1 %	50.1 %	7.6 %	35.9 %
Concentration SD	2.7 ppm	1.5 ppm	0.6 ppm	8.4 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0620 ppm	0.0091 ppm	-0.0060 ppm	0.0901 ppm
Concentration per Run 1	0.066 ppm	0.020 ppm	0.006 ppm	-0.034 ppm
Concentration per Run 2	-0.156 ppm	0.000 ppm	0.000 ppm	0.083 ppm
Concentration per Run 3	-0.096 ppm	0.007 ppm	-0.024 ppm	0.221 ppm
Concentration RSD	185.4 %	108.4 %	259.1 %	141.8 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0225 ppm	-0.1669 ppm	0.2555 ppm	-0.0002 ppm
Concentration per Run 1	0.032 ppm	-0.425 ppm	0.240 ppm	0.002 ppm
Concentration per Run 2	0.020 ppm	-0.035 ppm	0.337 ppm	-0.001 ppm
Concentration per Run 3	0.016 ppm	-0.041 ppm	0.189 ppm	-0.001 ppm
Concentration RSD	36.0 %	133.8 %	29.5 %	876.4 %
Concentration SD	0.0 ppm	0.2 ppm	0.1 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.3119 ppm	0.0178 ppm	1.6625 ppm	-0.0681 ppm
Concentration per Run 1	0.829 ppm	0.023 ppm	1.579 ppm	-0.075 ppm
Concentration per Run 2	0.702 ppm	0.010 ppm	1.755 ppm	-0.089 ppm
Concentration per Run 3	-0.595 ppm	0.021 ppm	1.654 ppm	-0.041 ppm
Concentration RSD	252.7 %	38.4 %	5.3 %	36.5 %
Concentration SD	0.8 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	21.8112 ppm	103.4920 %	107.1998 %	104.0204 %
Concentration per Run 1	21.708 ppm	103.665 %	107.525 %	104.106 %
Concentration per Run 2	22.128 ppm	103.415 %	107.936 %	104.026 %
Concentration per Run 3	21.598 ppm	103.396 %	106.139 %	103.929 %
Concentration RSD	1.3 %	0.1 %	0.9 %	0.1 %
Concentration SD	0.3 ppm	0.1 %	0.9 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	103.3262 %	-0.5838 ppm
Concentration per Run 1	103.610 %	0.494 ppm
Concentration per Run 2	103.334 %	-4.074 ppm
Concentration per Run 3	103.035 %	1.829 ppm
Concentration RSD	0.3 %	530.3 %
Concentration SD	0.3 %	3.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	5 cps	1 cps	5 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	0 cps	-14 cps	10 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-2 cps	6 cps	12 cps	10 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	3 cps	76 cps	25 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	114 cps	52 cps	-69 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-2 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	31 cps	-1 cps	2 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-24 cps	84 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	57 cps	5,205 cps	7,752 cps	176,600 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	18,274 cps	19 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	94.5304 ppm	96.9326 ppm	95.9487 ppm
Concentration per Run 1	94.392 ppm	97.092 ppm	96.267 ppm
Concentration per Run 2	94.492 ppm	96.983 ppm	95.921 ppm
Concentration per Run 3	94.708 ppm	96.723 ppm	95.658 ppm
Concentration RSD	0.2 %	0.2 %	0.3 %
Concentration SD	0.2 ppm	0.2 ppm	0.3 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	93.3440 ppm	95.2804 ppm	98.2441 ppm
Concentration per Run 1	94.095 ppm	95.138 ppm	98.515 ppm
Concentration per Run 2	93.090 ppm	95.586 ppm	98.483 ppm
Concentration per Run 3	92.847 ppm	95.117 ppm	97.735 ppm
Concentration RSD	0.7 %	0.3 %	0.4 %
Concentration SD	0.7 ppm	0.3 ppm	0.4 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	92.7111 ppm	94.6275 ppm	95.4246 ppm
Concentration per Run 1	92.805 ppm	94.536 ppm	95.354 ppm
Concentration per Run 2	92.907 ppm	93.988 ppm	95.723 ppm
Concentration per Run 3	92.422 ppm	95.359 ppm	95.197 ppm
Concentration RSD	0.3 %	0.7 %	0.3 %
Concentration SD	0.3 ppm	0.7 ppm	0.3 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	93.6424 ppm	976.1708 ppm	946.2258 ppm
Concentration per Run 1	93.823 ppm	971.804 ppm	948.848 ppm
Concentration per Run 2	93.568 ppm	982.065 ppm	947.631 ppm
Concentration per Run 3	93.537 ppm	974.643 ppm	942.198 ppm
Concentration RSD	0.2 %	0.5 %	0.4 %
Concentration SD	0.2 ppm	5.3 ppm	3.5 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	1,002.2256 ppm	93.3611 ppm	957.0345 ppm
Concentration per Run 1	1,003.099 ppm	93.047 ppm	954.227 ppm
Concentration per Run 2	1,023.685 ppm	93.552 ppm	959.033 ppm
Concentration per Run 3	979.893 ppm	93.484 ppm	957.844 ppm
Concentration RSD	2.2 %	0.3 %	0.3 %
Concentration SD	21.9 ppm	0.3 ppm	2.5 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	1,012.2450 ppm	930.3189 ppm	1,034.3198 ppm
Concentration per Run 1	1,011.265 ppm	927.303 ppm	1,029.048 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	1,017.862 ppm	926.709 ppm	1,040.473 ppm
Concentration per Run 3	1,007.608 ppm	936.945 ppm	1,033.438 ppm
Concentration RSD	0.5 %	0.6 %	0.6 %
Concentration SD	5.2 ppm	5.7 ppm	5.8 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	946.6853 ppm	1,010.3030 ppm	94.7052 ppm
Concentration per Run 1	943.476 ppm	1,007.195 ppm	95.172 ppm
Concentration per Run 2	948.879 ppm	1,013.668 ppm	94.684 ppm
Concentration per Run 3	947.701 ppm	1,010.046 ppm	94.259 ppm
Concentration RSD	0.3 %	0.3 %	0.5 %
Concentration SD	2.8 ppm	3.2 ppm	0.5 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	97.0546 ppm	95.0721 ppm	94.4727 ppm
Concentration per Run 1	96.910 ppm	95.150 ppm	94.729 ppm
Concentration per Run 2	97.172 ppm	95.138 ppm	94.409 ppm
Concentration per Run 3	97.083 ppm	94.929 ppm	94.280 ppm
Concentration RSD	0.1 %	0.1 %	0.2 %
Concentration SD	0.1 ppm	0.1 ppm	0.2 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	94.0015 ppm	94.2635 ppm	91.9745 ppm
Concentration per Run 1	94.352 ppm	94.675 ppm	92.089 ppm
Concentration per Run 2	93.859 ppm	94.640 ppm	91.820 ppm
Concentration per Run 3	93.793 ppm	93.476 ppm	92.014 ppm
Concentration RSD	0.3 %	0.7 %	0.2 %
Concentration SD	0.3 ppm	0.7 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	93.7877 ppm	93.6319 ppm	94.2623 ppm
Concentration per Run 1	94.016 ppm	93.212 ppm	93.959 ppm
Concentration per Run 2	93.962 ppm	94.707 ppm	94.443 ppm
Concentration per Run 3	93.385 ppm	92.977 ppm	94.385 ppm
Concentration RSD	0.4 %	1.0 %	0.3 %
Concentration SD	0.3 ppm	0.9 ppm	0.3 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	89.4859 ppm	91.0826 ppm	1,061.2592 ppm
Concentration per Run 1	89.830 ppm	91.355 ppm	1,063.268 ppm
Concentration per Run 2	88.996 ppm	91.160 ppm	1,061.177 ppm
Concentration per Run 3	89.631 ppm	90.733 ppm	1,059.333 ppm
Concentration RSD	0.5 %	0.3 %	0.2 %
Concentration SD	0.4 ppm	0.3 ppm	2.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	96.3657 %	107.1463 %	101.7334 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	96.490 %	107.774 %	101.646 %
Concentration per Run 2	96.002 %	106.707 %	101.879 %
Concentration per Run 3	96.605 %	106.957 %	101.676 %
Concentration RSD	0.3 %	0.5 %	0.1 %
Concentration SD	0.3 %	0.6 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.6852 %	2.2812 ppm
Concentration per Run 1	101.645 %	1.287 ppm
Concentration per Run 2	101.341 %	2.268 ppm
Concentration per Run 3	102.069 %	3.289 ppm
Concentration RSD	0.4 %	43.9 %
Concentration SD	0.4 %	1.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	528 cps	7,519 cps	8,693 cps	8,983 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	791 cps	397 cps	8,757 cps	472 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	2,044 cps	5,385 cps	649 cps	5,168 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	220 cps	10,666 cps	4,558 cps	2,385 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	421 cps	5,228 cps	13,600 cps	927 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	526 cps	19,458 cps	5,549 cps	507 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	54,664 cps	435 cps	1,326 cps	4,000 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	277 cps	20,313 cps	2,353 cps	1,062 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2,875 cps	4,846 cps	7,748 cps	172,717 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,983 cps	27 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	94.8466 ppm	96.7051 ppm	95.5105 ppm
Concentration per Run 1	94.380 ppm	96.578 ppm	95.440 ppm
Concentration per Run 2	95.686 ppm	97.312 ppm	96.002 ppm
Concentration per Run 3	94.474 ppm	96.225 ppm	95.090 ppm
Concentration RSD	0.8 %	0.6 %	0.5 %
Concentration SD	0.7 ppm	0.6 ppm	0.5 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	92.2527 ppm	94.7193 ppm	98.5158 ppm
Concentration per Run 1	91.926 ppm	94.548 ppm	98.035 ppm
Concentration per Run 2	92.400 ppm	95.446 ppm	99.019 ppm
Concentration per Run 3	92.432 ppm	94.164 ppm	98.493 ppm
Concentration RSD	0.3 %	0.7 %	0.5 %
Concentration SD	0.3 ppm	0.7 ppm	0.5 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	92.1375 ppm	93.5427 ppm	94.9134 ppm
Concentration per Run 1	92.430 ppm	93.493 ppm	94.876 ppm
Concentration per Run 2	92.019 ppm	93.646 ppm	95.696 ppm
Concentration per Run 3	91.963 ppm	93.489 ppm	94.168 ppm
Concentration RSD	0.3 %	0.1 %	0.8 %
Concentration SD	0.3 ppm	0.1 ppm	0.8 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	93.0008 ppm	965.3412 ppm	931.5025 ppm
Concentration per Run 1	92.828 ppm	969.679 ppm	934.549 ppm
Concentration per Run 2	93.610 ppm	958.524 ppm	930.961 ppm
Concentration per Run 3	92.564 ppm	967.821 ppm	928.998 ppm
Concentration RSD	0.6 %	0.6 %	0.3 %
Concentration SD	0.5 ppm	6.0 ppm	2.8 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	995.4344 ppm	92.7003 ppm	939.8067 ppm
Concentration per Run 1	1,001.206 ppm	92.661 ppm	942.308 ppm
Concentration per Run 2	991.195 ppm	92.922 ppm	940.448 ppm
Concentration per Run 3	993.902 ppm	92.518 ppm	936.664 ppm
Concentration RSD	0.5 %	0.2 %	0.3 %
Concentration SD	5.2 ppm	0.2 ppm	2.9 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	999.1622 ppm	910.9389 ppm	1,016.8744 ppm
Concentration per Run 1	998.530 ppm	911.274 ppm	1,019.154 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	1,002.205 ppm	908.667 ppm	1,017.108 ppm
Concentration per Run 3	996.752 ppm	912.876 ppm	1,014.360 ppm
Concentration RSD	0.3 %	0.2 %	0.2 %
Concentration SD	2.8 ppm	2.1 ppm	2.4 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	931.4468 ppm	1,000.1700 ppm	96.2662 ppm
Concentration per Run 1	933.069 ppm	1,011.760 ppm	95.816 ppm
Concentration per Run 2	931.963 ppm	991.586 ppm	97.199 ppm
Concentration per Run 3	929.308 ppm	997.164 ppm	95.784 ppm
Concentration RSD	0.2 %	1.0 %	0.8 %
Concentration SD	1.9 ppm	10.4 ppm	0.8 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	95.7799 ppm	94.5426 ppm	94.4539 ppm
Concentration per Run 1	95.628 ppm	94.475 ppm	94.498 ppm
Concentration per Run 2	96.113 ppm	95.079 ppm	95.073 ppm
Concentration per Run 3	95.599 ppm	94.075 ppm	93.790 ppm
Concentration RSD	0.3 %	0.5 %	0.7 %
Concentration SD	0.3 ppm	0.5 ppm	0.6 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	93.3770 ppm	93.7352 ppm	92.6219 ppm
Concentration per Run 1	93.251 ppm	93.819 ppm	92.328 ppm
Concentration per Run 2	93.493 ppm	93.305 ppm	92.652 ppm
Concentration per Run 3	93.387 ppm	94.081 ppm	92.885 ppm
Concentration RSD	0.1 %	0.4 %	0.3 %
Concentration SD	0.1 ppm	0.4 ppm	0.3 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	95.1169 ppm	93.0714 ppm	93.3585 ppm
Concentration per Run 1	94.993 ppm	92.454 ppm	93.577 ppm
Concentration per Run 2	95.795 ppm	94.210 ppm	93.238 ppm
Concentration per Run 3	94.562 ppm	92.551 ppm	93.260 ppm
Concentration RSD	0.7 %	1.1 %	0.2 %
Concentration SD	0.6 ppm	1.0 ppm	0.2 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	94.1075 ppm	92.2367 ppm	1,066.3051 ppm
Concentration per Run 1	93.968 ppm	91.965 ppm	1,064.490 ppm
Concentration per Run 2	94.476 ppm	92.979 ppm	1,072.987 ppm
Concentration per Run 3	93.878 ppm	91.766 ppm	1,061.438 ppm
Concentration RSD	0.3 %	0.7 %	0.6 %
Concentration SD	0.3 ppm	0.7 ppm	6.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	96.0114 %	109.4017 %	102.0175 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	96.128 %	109.567 %	102.185 %
Concentration per Run 2	95.660 %	109.162 %	101.904 %
Concentration per Run 3	96.247 %	109.476 %	101.963 %
Concentration RSD	0.3 %	0.2 %	0.1 %
Concentration SD	0.3 %	0.2 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.2610 %	3.0432 ppm
Concentration per Run 1	101.479 %	2.538 ppm
Concentration per Run 2	100.926 %	4.170 ppm
Concentration per Run 3	101.378 %	2.422 ppm
Concentration RSD	0.3 %	32.1 %
Concentration SD	0.3 %	1.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	528 cps	7,470 cps	8,617 cps	8,903 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	783 cps	396 cps	8,728 cps	476 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	2,026 cps	5,326 cps	656 cps	5,195 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	223 cps	10,814 cps	4,571 cps	2,404 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	421 cps	5,250 cps	13,662 cps	936 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	532 cps	19,607 cps	5,497 cps	505 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	54,453 cps	442 cps	1,363 cps	4,040 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	282 cps	20,542 cps	2,479 cps	1,071 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2,877 cps	4,828 cps	7,911 cps	173,199 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,908 cps	29 cps

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Sample Type UNKNOWN Analysis Date 10/19/2015 9:54:27 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.2920 ppm	0.0205 ppm	-0.0343 ppm
Concentration per Run 1	0.352 ppm	0.025 ppm	-0.033 ppm
Concentration per Run 2	0.245 ppm	0.025 ppm	-0.028 ppm
Concentration per Run 3	0.279 ppm	0.012 ppm	-0.042 ppm
Concentration RSD	18.7 %	37.3 %	19.7 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0148 ppm	0.3387 ppm	0.2254 ppm
Concentration per Run 1	0.019 ppm	0.372 ppm	0.103 ppm
Concentration per Run 2	0.011 ppm	0.255 ppm	0.387 ppm
Concentration per Run 3	N/A	0.388 ppm	0.186 ppm
Concentration RSD	37.5 %	21.4 %	64.7 %
Concentration SD	0.0 ppm	0.1 ppm	0.1 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0175 ppm	-0.1840 ppm	0.0358 ppm
Concentration per Run 1	0.080 ppm	-0.722 ppm	0.035 ppm
Concentration per Run 2	-0.045 ppm	0.504 ppm	0.061 ppm
Concentration per Run 3	N/A	-0.334 ppm	0.011 ppm
Concentration RSD	502.5 %	340.6 %	69.4 %
Concentration SD	0.1 ppm	0.6 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0068 ppm	9.0725 ppm	0.4362 ppm
Concentration per Run 1	-0.001 ppm	25.926 ppm	1.093 ppm
Concentration per Run 2	0.030 ppm	-0.277 ppm	0.052 ppm
Concentration per Run 3	-0.008 ppm	1.569 ppm	0.164 ppm
Concentration RSD	290.2 %	161.2 %	130.9 %
Concentration SD	0.0 ppm	14.6 ppm	0.6 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	-4.4954 ppm	0.0354 ppm	0.8283 ppm
Concentration per Run 1	5.408 ppm	0.079 ppm	1.437 ppm
Concentration per Run 2	-7.838 ppm	0.052 ppm	0.592 ppm
Concentration per Run 3	-11.057 ppm	-0.025 ppm	0.456 ppm
Concentration RSD	194.1 %	151.8 %	64.2 %
Concentration SD	8.7 ppm	0.1 ppm	0.5 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	3.4324 ppm	3.7505 ppm	10.0465 ppm
Concentration per Run 1	5.612 ppm	9.026 ppm	11.408 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	1.968 ppm	-1.786 ppm	6.843 ppm
Concentration per Run 3	2.717 ppm	4.011 ppm	11.889 ppm
Concentration RSD	56.1 %	144.3 %	27.7 %
Concentration SD	1.9 ppm	5.4 ppm	2.8 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	-5.0061 ppm	-30.2450 ppm	-0.0413 ppm
Concentration per Run 1	-4.408 ppm	-55.981 ppm	-0.055 ppm
Concentration per Run 2	-6.184 ppm	-19.145 ppm	-0.125 ppm
Concentration per Run 3	-4.426 ppm	-15.609 ppm	0.056 ppm
Concentration RSD	20.4 %	73.9 %	221.4 %
Concentration SD	1.0 ppm	22.4 ppm	0.1 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0029 ppm	0.0249 ppm	0.1654 ppm
Concentration per Run 1	0.025 ppm	0.022 ppm	0.078 ppm
Concentration per Run 2	-0.013 ppm	0.014 ppm	0.169 ppm
Concentration per Run 3	-0.021 ppm	0.039 ppm	0.249 ppm
Concentration RSD	846.9 %	51.0 %	51.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	-0.0020 ppm	0.4514 ppm	0.4160 ppm
Concentration per Run 1	0.003 ppm	1.647 ppm	0.333 ppm
Concentration per Run 2	-0.007 ppm	0.245 ppm	0.718 ppm
Concentration per Run 3	N/A	-0.537 ppm	0.197 ppm
Concentration RSD	345.5 %	245.2 %	64.9 %
Concentration SD	0.0 ppm	1.1 ppm	0.3 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	-0.0136 ppm	-0.0019 ppm	0.0048 ppm
Concentration per Run 1	-0.021 ppm	0.593 ppm	0.055 ppm
Concentration per Run 2	-0.011 ppm	0.154 ppm	-0.005 ppm
Concentration per Run 3	-0.009 ppm	-0.753 ppm	-0.036 ppm
Concentration RSD	45.9 %	36,568.1 %	976.4 %
Concentration SD	0.0 ppm	0.7 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	-0.8969 ppm	-0.1078 ppm	1.6334 ppm
Concentration per Run 1	-0.892 ppm	-0.143 ppm	1.721 ppm
Concentration per Run 2	-0.902 ppm	-0.072 ppm	1.575 ppm
Concentration per Run 3	N/A	-0.108 ppm	1.604 ppm
Concentration RSD	0.8 %	32.7 %	4.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	163.4064 %	115.0850 %	152.3162 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	152.577 %	106.594 %	164.612 %
Concentration per Run 2	172.463 %	122.226 %	140.020 %
Concentration per Run 3	165.179 %	116.435 %	
Concentration RSD	6.2 %	6.9 %	11.4 %
Concentration SD	10.1 %	7.9 %	17.4 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	168.1406 %	-3.7291 ppm
Concentration per Run 1	156.623 %	-6.805 ppm
Concentration per Run 2	178.455 %	-4.533 ppm
Concentration per Run 3	169.344 %	0.151 ppm
Concentration RSD	6.5 %	95.1 %
Concentration SD	11.0 %	3.5 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	9 cps	-2 cps	3 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1 cps	0 cps	-21 cps	10 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-5 cps	3 cps	19 cps	3 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	0 cps	14 cps	72 cps	34 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2 cps	158 cps	-128 cps	-129 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	-5 cps	-1 cps	-4 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	28 cps	2 cps	5 cps	5 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-29 cps	32 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	6 cps	8,218 cps	8,322 cps	258,593 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	29,736 cps	10 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	3.0196 ppm	44.5407 ppm	2.5516 ppm
Concentration per Run 1	3.894 ppm	44.783 ppm	2.613 ppm
Concentration per Run 2	2.818 ppm	44.583 ppm	2.511 ppm
Concentration per Run 3	2.347 ppm	44.256 ppm	2.531 ppm
Concentration RSD	26.3 %	0.6 %	2.1 %
Concentration SD	0.8 ppm	0.3 ppm	0.1 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	27.6886 ppm	12.6710 ppm	3.1144 ppm
Concentration per Run 1	27.760 ppm	12.262 ppm	2.300 ppm
Concentration per Run 2	27.611 ppm	12.771 ppm	3.801 ppm
Concentration per Run 3	27.695 ppm	12.980 ppm	3.242 ppm
Concentration RSD	0.3 %	2.9 %	24.4 %
Concentration SD	0.1 ppm	0.4 ppm	0.8 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.2364 ppm	13.2127 ppm	15.2996 ppm
Concentration per Run 1	0.534 ppm	11.961 ppm	15.272 ppm
Concentration per Run 2	0.243 ppm	12.258 ppm	15.332 ppm
Concentration per Run 3	-0.068 ppm	15.420 ppm	15.295 ppm
Concentration RSD	127.4 %	14.5 %	0.2 %
Concentration SD	0.3 ppm	1.9 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	58.9055 ppm	2,672.8334 ppm	11,030.4540 ppm
Concentration per Run 1	59.188 ppm	2,657.638 ppm	11,049.770 ppm
Concentration per Run 2	58.895 ppm	2,670.700 ppm	11,013.456 ppm
Concentration per Run 3	58.634 ppm	2,690.162 ppm	11,028.137 ppm
Concentration RSD	0.5 %	0.6 %	0.2 %
Concentration SD	0.3 ppm	16.4 ppm	18.3 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	11,720.3350 ppm	5.0971 ppm	65,227.5799 ppm
Concentration per Run 1	11,784.600 ppm	4.637 ppm	65,480.045 ppm
Concentration per Run 2	11,629.381 ppm	5.362 ppm	64,871.190 ppm
Concentration per Run 3	11,747.024 ppm	5.292 ppm	65,331.505 ppm
Concentration RSD	0.7 %	7.8 %	0.5 %
Concentration SD	81.0 ppm	0.4 ppm	317.5 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	69,491.3600 ppm	33,741.7058 ppm	406.6921 ppm
Concentration per Run 1	69,769.953 ppm	33,938.558 ppm	395.987 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	69,107.258 ppm	33,578.142 ppm	407.030 ppm
Concentration per Run 3	69,596.869 ppm	33,708.417 ppm	417.059 ppm
Concentration RSD	0.5 %	0.5 %	2.6 %
Concentration SD	343.7 ppm	182.5 ppm	10.5 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	404.6480 ppm	461.2231 ppm	-0.0252 ppm
Concentration per Run 1	406.534 ppm	394.771 ppm	0.944 ppm
Concentration per Run 2	399.598 ppm	562.324 ppm	-0.952 ppm
Concentration per Run 3	407.812 ppm	426.574 ppm	-0.068 ppm
Concentration RSD	1.1 %	19.3 %	3,763.1 %
Concentration SD	4.4 ppm	89.0 ppm	0.9 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.2720 ppm	5.1739 ppm	0.2427 ppm
Concentration per Run 1	0.278 ppm	5.148 ppm	0.186 ppm
Concentration per Run 2	0.287 ppm	5.149 ppm	0.228 ppm
Concentration per Run 3	0.251 ppm	5.225 ppm	0.315 ppm
Concentration RSD	6.9 %	0.8 %	27.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	706.5217 ppm	13.3285 ppm	67.9409 ppm
Concentration per Run 1	708.044 ppm	10.947 ppm	68.431 ppm
Concentration per Run 2	705.033 ppm	14.469 ppm	68.353 ppm
Concentration per Run 3	706.488 ppm	14.570 ppm	67.038 ppm
Concentration RSD	0.2 %	15.5 %	1.2 %
Concentration SD	1.5 ppm	2.1 ppm	0.8 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.7612 ppm	5.5260 ppm	47.1069 ppm
Concentration per Run 1	0.793 ppm	6.624 ppm	47.167 ppm
Concentration per Run 2	0.721 ppm	2.929 ppm	46.880 ppm
Concentration per Run 3	0.770 ppm	7.025 ppm	47.273 ppm
Concentration RSD	4.9 %	40.9 %	0.4 %
Concentration SD	0.0 ppm	2.3 ppm	0.2 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	1,034.4965 ppm	0.0322 ppm	151.4777 ppm
Concentration per Run 1	1,035.953 ppm	-0.064 ppm	151.578 ppm
Concentration per Run 2	1,029.557 ppm	0.076 ppm	151.886 ppm
Concentration per Run 3	1,037.980 ppm	0.085 ppm	150.969 ppm
Concentration RSD	0.4 %	260.2 %	0.3 %
Concentration SD	4.4 ppm	0.1 ppm	0.5 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	90.2203 %	106.6339 %	97.3741 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	90.028 %	106.056 %	97.433 %
Concentration per Run 2	90.361 %	107.159 %	97.490 %
Concentration per Run 3	90.273 %	106.687 %	97.199 %
Concentration RSD	0.2 %	0.5 %	0.2 %
Concentration SD	0.2 %	0.6 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	97.0501 %	21.9800 ppm
Concentration per Run 1	96.806 %	33.575 ppm
Concentration per Run 2	97.204 %	11.382 ppm
Concentration per Run 3	97.140 %	20.984 ppm
Concentration RSD	0.2 %	50.6 %
Concentration SD	0.2 %	11.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	0 cps	637 cps	44 cps	493 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	17 cps	2 cps	-13 cps	22 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	55 cps	623 cps	346 cps	11,530 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	491 cps	120 cps	58,689 cps	31,037 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2,922 cps	485 cps	1,068 cps	-2 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	6 cps	53 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	75,619 cps	12 cps	186 cps	9 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	5 cps	1,918 cps	4,959 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	75 cps	4,537 cps	7,711 cps	165,316 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,164 cps	32 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	123.9334 ppm	150.3247 ppm	120.9607 ppm
Concentration per Run 1	124.215 ppm	150.782 ppm	121.501 ppm
Concentration per Run 2	124.394 ppm	150.551 ppm	121.128 ppm
Concentration per Run 3	123.192 ppm	149.641 ppm	120.253 ppm
Concentration RSD	0.5 %	0.4 %	0.5 %
Concentration SD	0.6 ppm	0.6 ppm	0.6 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	132.9247 ppm	125.2320 ppm	124.9721 ppm
Concentration per Run 1	133.795 ppm	125.181 ppm	125.537 ppm
Concentration per Run 2	132.969 ppm	125.773 ppm	125.519 ppm
Concentration per Run 3	132.010 ppm	124.742 ppm	123.860 ppm
Concentration RSD	0.7 %	0.4 %	0.8 %
Concentration SD	0.9 ppm	0.5 ppm	1.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	115.3736 ppm	125.3560 ppm	130.1331 ppm
Concentration per Run 1	115.800 ppm	125.499 ppm	130.436 ppm
Concentration per Run 2	115.335 ppm	124.454 ppm	130.868 ppm
Concentration per Run 3	114.986 ppm	126.115 ppm	129.096 ppm
Concentration RSD	0.4 %	0.7 %	0.7 %
Concentration SD	0.4 ppm	0.8 ppm	0.9 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	156.0066 ppm	2,730.7460 ppm	10,215.6910 ppm
Concentration per Run 1	156.342 ppm	2,713.848 ppm	10,225.175 ppm
Concentration per Run 2	156.504 ppm	2,738.724 ppm	10,205.279 ppm
Concentration per Run 3	155.174 ppm	2,739.666 ppm	10,216.619 ppm
Concentration RSD	0.5 %	0.5 %	0.1 %
Concentration SD	0.7 ppm	14.6 ppm	10.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	10,974.0687 ppm	119.2260 ppm	60,070.0518 ppm
Concentration per Run 1	10,955.327 ppm	119.240 ppm	59,672.683 ppm
Concentration per Run 2	10,957.749 ppm	119.201 ppm	59,944.684 ppm
Concentration per Run 3	11,009.130 ppm	119.236 ppm	60,592.788 ppm
Concentration RSD	0.3 %	0.0 %	0.8 %
Concentration SD	30.4 ppm	0.0 ppm	472.7 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	66,122.5899 ppm	32,951.5577 ppm	1,649.9197 ppm
Concentration per Run 1	66,124.564 ppm	32,969.231 ppm	1,653.210 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	66,071.182 ppm	32,890.656 ppm	1,648.970 ppm
Concentration per Run 3	66,172.024 ppm	32,994.785 ppm	1,647.578 ppm
Concentration RSD	0.1 %	0.2 %	0.2 %
Concentration SD	50.5 ppm	54.3 ppm	2.9 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	1,529.9629 ppm	1,600.0866 ppm	116.9355 ppm
Concentration per Run 1	1,532.038 ppm	1,576.298 ppm	117.053 ppm
Concentration per Run 2	1,529.071 ppm	1,619.155 ppm	117.613 ppm
Concentration per Run 3	1,528.779 ppm	1,604.806 ppm	116.141 ppm
Concentration RSD	0.1 %	1.4 %	0.6 %
Concentration SD	1.8 ppm	21.8 ppm	0.7 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	112.0073 ppm	121.6507 ppm	106.8875 ppm
Concentration per Run 1	112.309 ppm	122.128 ppm	106.868 ppm
Concentration per Run 2	111.653 ppm	122.230 ppm	107.908 ppm
Concentration per Run 3	112.061 ppm	120.594 ppm	105.887 ppm
Concentration RSD	0.3 %	0.8 %	0.9 %
Concentration SD	0.3 ppm	0.9 ppm	1.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	746.9043 ppm	122.0139 ppm	164.4673 ppm
Concentration per Run 1	750.919 ppm	121.399 ppm	164.882 ppm
Concentration per Run 2	748.147 ppm	122.138 ppm	163.691 ppm
Concentration per Run 3	741.647 ppm	122.505 ppm	164.830 ppm
Concentration RSD	0.6 %	0.5 %	0.4 %
Concentration SD	4.8 ppm	0.6 ppm	0.7 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	109.8681 ppm	112.2602 ppm	153.2242 ppm
Concentration per Run 1	110.295 ppm	111.174 ppm	153.266 ppm
Concentration per Run 2	109.950 ppm	112.343 ppm	153.105 ppm
Concentration per Run 3	109.359 ppm	113.264 ppm	153.302 ppm
Concentration RSD	0.4 %	0.9 %	0.1 %
Concentration SD	0.5 ppm	1.0 ppm	0.1 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	1,129.8334 ppm	97.0534 ppm	151.4803 ppm
Concentration per Run 1	1,129.702 ppm	97.537 ppm	151.926 ppm
Concentration per Run 2	1,131.578 ppm	97.287 ppm	152.041 ppm
Concentration per Run 3	1,128.220 ppm	96.336 ppm	150.474 ppm
Concentration RSD	0.1 %	0.7 %	0.6 %
Concentration SD	1.7 ppm	0.6 ppm	0.9 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	75.4563 %	104.8048 %	89.6175 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	75.307 %	104.928 %	89.560 %
Concentration per Run 2	75.461 %	104.986 %	89.431 %
Concentration per Run 3	75.601 %	104.500 %	89.861 %
Concentration RSD	0.2 %	0.3 %	0.2 %
Concentration SD	0.1 %	0.3 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	88.7811 %	31.5210 ppm
Concentration per Run 1	88.597 %	28.773 ppm
Concentration per Run 2	88.971 %	35.216 ppm
Concentration per Run 3	88.775 %	30.574 ppm
Concentration RSD	0.2 %	10.5 %
Concentration SD	0.2 %	3.3 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	582 cps	9,788 cps	9,200 cps	10,835 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	783 cps	424 cps	9,234 cps	585 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	2,100 cps	7,531 cps	1,687 cps	52,473 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2,256 cps	12,809 cps	265,383 cps	145,045 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	14,024 cps	7,791 cps	20,699 cps	1,428 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	545 cps	21,121 cps	5,346 cps	432 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	367,794 cps	530 cps	2,230 cps	3,933 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	313 cps	31,071 cps	24,763 cps	950 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	344 cps	3,795 cps	7,579 cps	152,147 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	15,701 cps	106 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	103.7418 ppm	152.0607 ppm	103.3784 ppm
Concentration per Run 1	104.734 ppm	152.882 ppm	103.854 ppm
Concentration per Run 2	103.684 ppm	152.044 ppm	103.488 ppm
Concentration per Run 3	102.807 ppm	151.256 ppm	102.793 ppm
Concentration RSD	0.9 %	0.5 %	0.5 %
Concentration SD	1.0 ppm	0.8 ppm	0.5 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	126.5831 ppm	114.9958 ppm	96.1614 ppm
Concentration per Run 1	126.965 ppm	115.684 ppm	96.894 ppm
Concentration per Run 2	126.369 ppm	114.856 ppm	96.118 ppm
Concentration per Run 3	126.415 ppm	114.447 ppm	95.472 ppm
Concentration RSD	0.3 %	0.5 %	0.7 %
Concentration SD	0.3 ppm	0.6 ppm	0.7 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	99.1083 ppm	112.8398 ppm	118.1160 ppm
Concentration per Run 1	99.064 ppm	111.961 ppm	118.592 ppm
Concentration per Run 2	98.871 ppm	113.478 ppm	117.965 ppm
Concentration per Run 3	99.390 ppm	113.081 ppm	117.790 ppm
Concentration RSD	0.3 %	0.7 %	0.4 %
Concentration SD	0.3 ppm	0.8 ppm	0.4 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	162.8467 ppm	4,725.0305 ppm	14,223.8580 ppm
Concentration per Run 1	163.309 ppm	4,714.388 ppm	14,196.407 ppm
Concentration per Run 2	163.182 ppm	4,748.898 ppm	14,240.920 ppm
Concentration per Run 3	162.049 ppm	4,711.805 ppm	14,234.247 ppm
Concentration RSD	0.4 %	0.4 %	0.2 %
Concentration SD	0.7 ppm	20.7 ppm	24.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	15,379.9951 ppm	101.7888 ppm	48,415.8830 ppm
Concentration per Run 1	15,314.574 ppm	101.533 ppm	48,243.074 ppm
Concentration per Run 2	15,379.309 ppm	101.810 ppm	48,820.964 ppm
Concentration per Run 3	15,446.103 ppm	102.023 ppm	48,183.611 ppm
Concentration RSD	0.4 %	0.2 %	0.7 %
Concentration SD	65.8 ppm	0.2 ppm	352.1 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	53,149.4613 ppm	19,635.6896 ppm	1,500.8142 ppm
Concentration per Run 1	53,002.607 ppm	19,553.324 ppm	1,496.141 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	53,233.072 ppm	19,677.263 ppm	1,505.207 ppm
Concentration per Run 3	53,212.706 ppm	19,676.482 ppm	1,501.094 ppm
Concentration RSD	0.2 %	0.4 %	0.3 %
Concentration SD	127.6 ppm	71.3 ppm	4.5 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	1,417.9416 ppm	1,504.3016 ppm	90.0733 ppm
Concentration per Run 1	1,417.248 ppm	1,516.806 ppm	90.612 ppm
Concentration per Run 2	1,419.414 ppm	1,503.200 ppm	90.077 ppm
Concentration per Run 3	1,417.163 ppm	1,492.899 ppm	89.531 ppm
Concentration RSD	0.1 %	0.8 %	0.6 %
Concentration SD	1.3 ppm	12.0 ppm	0.5 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	96.2868 ppm	106.3652 ppm	91.5834 ppm
Concentration per Run 1	96.065 ppm	106.876 ppm	92.391 ppm
Concentration per Run 2	96.425 ppm	106.356 ppm	91.594 ppm
Concentration per Run 3	96.371 ppm	105.864 ppm	90.765 ppm
Concentration RSD	0.2 %	0.5 %	0.9 %
Concentration SD	0.2 ppm	0.5 ppm	0.8 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	1,258.2555 ppm	106.2023 ppm	148.6250 ppm
Concentration per Run 1	1,255.589 ppm	106.411 ppm	148.031 ppm
Concentration per Run 2	1,255.848 ppm	106.651 ppm	148.661 ppm
Concentration per Run 3	1,263.329 ppm	105.545 ppm	149.183 ppm
Concentration RSD	0.3 %	0.5 %	0.4 %
Concentration SD	4.4 ppm	0.6 ppm	0.6 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	90.5054 ppm	96.8620 ppm	127.1721 ppm
Concentration per Run 1	91.014 ppm	96.690 ppm	126.921 ppm
Concentration per Run 2	90.563 ppm	96.551 ppm	127.504 ppm
Concentration per Run 3	89.939 ppm	97.345 ppm	127.091 ppm
Concentration RSD	0.6 %	0.4 %	0.2 %
Concentration SD	0.5 ppm	0.4 ppm	0.3 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	1,512.9425 ppm	85.4586 ppm	1,338.8409 ppm
Concentration per Run 1	1,511.458 ppm	85.913 ppm	1,347.295 ppm
Concentration per Run 2	1,512.571 ppm	85.491 ppm	1,338.476 ppm
Concentration per Run 3	1,514.798 ppm	84.971 ppm	1,330.752 ppm
Concentration RSD	0.1 %	0.6 %	0.6 %
Concentration SD	1.7 ppm	0.5 ppm	8.3 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	77.0104 %	106.6421 %	92.7128 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	76.974 %	106.890 %	92.924 %
Concentration per Run 2	77.066 %	106.322 %	92.665 %
Concentration per Run 3	76.991 %	106.714 %	92.549 %
Concentration RSD	0.1 %	0.3 %	0.2 %
Concentration SD	0.0 %	0.3 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	91.3394 %	37.6832 ppm
Concentration per Run 1	91.202 %	35.569 ppm
Concentration per Run 2	91.389 %	39.493 ppm
Concentration per Run 3	91.426 %	37.988 ppm
Concentration RSD	0.1 %	5.3 %
Concentration SD	0.1 %	2.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	501 cps	10,186 cps	8,089 cps	10,674 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	734 cps	335 cps	8,204 cps	537 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1,945 cps	8,088 cps	2,960 cps	74,342 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	3,216 cps	11,129 cps	217,658 cps	118,636 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	8,503 cps	7,220 cps	19,516 cps	1,360 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	432 cps	18,475 cps	4,770 cps	377 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	640,988 cps	469 cps	2,050 cps	3,334 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	275 cps	26,235 cps	34,293 cps	861 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	3,133 cps	3,873 cps	7,712 cps	157,402 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,154 cps	123 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	105.4571 ppm	147.1110 ppm	102.4893 ppm
Concentration per Run 1	105.989 ppm	147.520 ppm	102.713 ppm
Concentration per Run 2	105.183 ppm	147.090 ppm	102.551 ppm
Concentration per Run 3	105.199 ppm	146.723 ppm	102.204 ppm
Concentration RSD	0.4 %	0.3 %	0.3 %
Concentration SD	0.5 ppm	0.4 ppm	0.3 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	117.4980 ppm	115.2090 ppm	97.9489 ppm
Concentration per Run 1	117.516 ppm	115.451 ppm	98.381 ppm
Concentration per Run 2	117.791 ppm	115.433 ppm	97.754 ppm
Concentration per Run 3	117.188 ppm	114.743 ppm	97.712 ppm
Concentration RSD	0.3 %	0.4 %	0.4 %
Concentration SD	0.3 ppm	0.4 ppm	0.4 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	99.1582 ppm	113.5090 ppm	118.0547 ppm
Concentration per Run 1	99.155 ppm	113.059 ppm	118.240 ppm
Concentration per Run 2	99.569 ppm	113.127 ppm	118.402 ppm
Concentration per Run 3	98.751 ppm	114.340 ppm	117.523 ppm
Concentration RSD	0.4 %	0.6 %	0.4 %
Concentration SD	0.4 ppm	0.7 ppm	0.5 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	161.2060 ppm	4,844.6807 ppm	14,520.4545 ppm
Concentration per Run 1	161.716 ppm	4,835.647 ppm	14,541.202 ppm
Concentration per Run 2	161.431 ppm	4,847.528 ppm	14,547.675 ppm
Concentration per Run 3	160.471 ppm	4,850.867 ppm	14,472.486 ppm
Concentration RSD	0.4 %	0.2 %	0.3 %
Concentration SD	0.7 ppm	8.0 ppm	41.7 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	15,698.2419 ppm	101.8114 ppm	41,167.2275 ppm
Concentration per Run 1	15,649.245 ppm	101.838 ppm	41,663.220 ppm
Concentration per Run 2	15,801.773 ppm	101.580 ppm	41,022.548 ppm
Concentration per Run 3	15,643.708 ppm	102.016 ppm	40,815.914 ppm
Concentration RSD	0.6 %	0.2 %	1.1 %
Concentration SD	89.7 ppm	0.2 ppm	441.8 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	44,969.2562 ppm	19,364.1490 ppm	1,520.9853 ppm
Concentration per Run 1	45,015.656 ppm	19,415.090 ppm	1,523.874 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	45,072.221 ppm	19,448.737 ppm	1,519.367 ppm
Concentration per Run 3	44,819.892 ppm	19,228.620 ppm	1,519.714 ppm
Concentration RSD	0.3 %	0.6 %	0.2 %
Concentration SD	132.4 ppm	118.6 ppm	2.5 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	1,412.7381 ppm	1,495.5088 ppm	91.3498 ppm
Concentration per Run 1	1,413.545 ppm	1,489.736 ppm	91.189 ppm
Concentration per Run 2	1,412.984 ppm	1,488.691 ppm	91.535 ppm
Concentration per Run 3	1,411.686 ppm	1,508.099 ppm	91.326 ppm
Concentration RSD	0.1 %	0.7 %	0.2 %
Concentration SD	1.0 ppm	10.9 ppm	0.2 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	96.8143 ppm	106.6691 ppm	91.6725 ppm
Concentration per Run 1	96.786 ppm	107.084 ppm	92.312 ppm
Concentration per Run 2	97.040 ppm	106.806 ppm	91.768 ppm
Concentration per Run 3	96.617 ppm	106.117 ppm	90.938 ppm
Concentration RSD	0.2 %	0.5 %	0.8 %
Concentration SD	0.2 ppm	0.5 ppm	0.7 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	843.6363 ppm	106.2296 ppm	154.0207 ppm
Concentration per Run 1	843.693 ppm	106.516 ppm	154.503 ppm
Concentration per Run 2	845.048 ppm	106.477 ppm	153.251 ppm
Concentration per Run 3	842.168 ppm	105.696 ppm	154.309 ppm
Concentration RSD	0.2 %	0.4 %	0.4 %
Concentration SD	1.4 ppm	0.5 ppm	0.7 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	93.8145 ppm	95.7434 ppm	121.8236 ppm
Concentration per Run 1	93.978 ppm	95.549 ppm	122.094 ppm
Concentration per Run 2	94.083 ppm	96.865 ppm	121.728 ppm
Concentration per Run 3	93.382 ppm	94.816 ppm	121.648 ppm
Concentration RSD	0.4 %	1.1 %	0.2 %
Concentration SD	0.4 ppm	1.0 ppm	0.2 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	1,711.5337 ppm	88.7312 ppm	1,292.2110 ppm
Concentration per Run 1	1,715.065 ppm	88.840 ppm	1,291.892 ppm
Concentration per Run 2	1,713.169 ppm	89.042 ppm	1,294.231 ppm
Concentration per Run 3	1,706.367 ppm	88.311 ppm	1,290.509 ppm
Concentration RSD	0.3 %	0.4 %	0.1 %
Concentration SD	4.6 ppm	0.4 ppm	1.9 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	78.0999 %	106.9128 %	92.4263 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	78.194 %	106.840 %	92.568 %
Concentration per Run 2	77.858 %	106.352 %	92.115 %
Concentration per Run 3	78.247 %	107.547 %	92.596 %
Concentration RSD	0.3 %	0.6 %	0.3 %
Concentration SD	0.2 %	0.6 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	92.0140 %	32.7393 ppm
Concentration per Run 1	92.203 %	31.503 ppm
Concentration per Run 2	91.800 %	30.474 ppm
Concentration per Run 3	92.039 %	36.241 ppm
Concentration RSD	0.2 %	9.4 %
Concentration SD	0.2 %	3.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	513 cps	9,927 cps	8,079 cps	9,878 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	745 cps	344 cps	8,183 cps	542 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1,972 cps	8,066 cps	3,043 cps	76,084 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	3,291 cps	11,159 cps	185,550 cps	100,634 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	8,407 cps	7,335 cps	19,493 cps	1,355 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	441 cps	18,623 cps	4,852 cps	383 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	428,448 cps	470 cps	2,130 cps	3,481 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	272 cps	25,194 cps	38,670 cps	901 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	3,046 cps	3,928 cps	7,731 cps	156,916 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,273 cps	110 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	8.8591 ppm	195.5366 ppm	7.3642 ppm
Concentration per Run 1	9.132 ppm	197.645 ppm	7.414 ppm
Concentration per Run 2	8.698 ppm	195.652 ppm	7.322 ppm
Concentration per Run 3	8.747 ppm	193.313 ppm	7.357 ppm
Concentration RSD	2.7 %	1.1 %	0.6 %
Concentration SD	0.2 ppm	2.2 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	171.0712 ppm	709.7001 ppm	3.3380 ppm
Concentration per Run 1	171.735 ppm	714.713 ppm	4.515 ppm
Concentration per Run 2	170.594 ppm	712.729 ppm	2.611 ppm
Concentration per Run 3	170.885 ppm	701.658 ppm	2.889 ppm
Concentration RSD	0.3 %	1.0 %	30.8 %
Concentration SD	0.6 ppm	7.0 ppm	1.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.9103 ppm	85.6857 ppm	39.9092 ppm
Concentration per Run 1	1.210 ppm	82.780 ppm	40.180 ppm
Concentration per Run 2	0.536 ppm	86.443 ppm	40.138 ppm
Concentration per Run 3	0.985 ppm	87.835 ppm	39.410 ppm
Concentration RSD	37.7 %	3.0 %	1.1 %
Concentration SD	0.3 ppm	2.6 ppm	0.4 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2,700.5882 ppm	4,956.4127 ppm	37,711.7091 ppm
Concentration per Run 1	2,718.177 ppm	4,940.037 ppm	37,824.992 ppm
Concentration per Run 2	2,709.548 ppm	4,957.392 ppm	37,647.165 ppm
Concentration per Run 3	2,674.039 ppm	4,971.810 ppm	37,662.970 ppm
Concentration RSD	0.9 %	0.3 %	0.3 %
Concentration SD	23.4 ppm	15.9 ppm	98.4 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	40,800.9164 ppm	11.0436 ppm	14,540.9897 ppm
Concentration per Run 1	40,762.093 ppm	11.103 ppm	14,573.127 ppm
Concentration per Run 2	40,769.232 ppm	10.819 ppm	14,515.722 ppm
Concentration per Run 3	40,871.423 ppm	11.209 ppm	14,534.120 ppm
Concentration RSD	0.1 %	1.8 %	0.2 %
Concentration SD	61.2 ppm	0.2 ppm	29.3 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	15,702.9907 ppm	4,892.6043 ppm	2,098.0873 ppm
Concentration per Run 1	15,721.725 ppm	4,892.115 ppm	2,107.480 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	15,685.867 ppm	4,851.920 ppm	2,099.148 ppm
Concentration per Run 3	15,701.379 ppm	4,933.778 ppm	2,087.634 ppm
Concentration RSD	0.1 %	0.8 %	0.5 %
Concentration SD	18.0 ppm	40.9 ppm	10.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	1,151.6383 ppm	1,283.6245 ppm	47.0106 ppm
Concentration per Run 1	1,151.031 ppm	1,230.472 ppm	48.503 ppm
Concentration per Run 2	1,160.725 ppm	1,301.949 ppm	46.822 ppm
Concentration per Run 3	1,143.159 ppm	1,318.452 ppm	45.707 ppm
Concentration RSD	0.8 %	3.6 %	3.0 %
Concentration SD	8.8 ppm	46.8 ppm	1.4 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.3746 ppm	6.2098 ppm	0.0370 ppm
Concentration per Run 1	0.370 ppm	6.157 ppm	-0.086 ppm
Concentration per Run 2	0.376 ppm	6.254 ppm	1.142 ppm
Concentration per Run 3	0.378 ppm	6.219 ppm	-0.946 ppm
Concentration RSD	1.1 %	0.8 %	2,838.4 %
Concentration SD	0.0 ppm	0.0 ppm	1.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	301.6600 ppm	20.2574 ppm	165.6395 ppm
Concentration per Run 1	301.580 ppm	21.072 ppm	165.543 ppm
Concentration per Run 2	301.505 ppm	18.838 ppm	164.656 ppm
Concentration per Run 3	301.894 ppm	20.862 ppm	166.720 ppm
Concentration RSD	0.1 %	6.1 %	0.6 %
Concentration SD	0.2 ppm	1.2 ppm	1.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	4.0943 ppm	20.5770 ppm	82.7608 ppm
Concentration per Run 1	4.192 ppm	21.985 ppm	82.910 ppm
Concentration per Run 2	4.125 ppm	20.715 ppm	82.863 ppm
Concentration per Run 3	3.966 ppm	19.032 ppm	82.509 ppm
Concentration RSD	2.8 %	7.2 %	0.3 %
Concentration SD	0.1 ppm	1.5 ppm	0.2 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	2,291.0545 ppm	4.5746 ppm	1,811.1038 ppm
Concentration per Run 1	2,294.382 ppm	4.566 ppm	1,833.544 ppm
Concentration per Run 2	2,281.153 ppm	4.415 ppm	1,815.534 ppm
Concentration per Run 3	2,297.629 ppm	4.743 ppm	1,784.233 ppm
Concentration RSD	0.4 %	3.6 %	1.4 %
Concentration SD	8.7 ppm	0.2 ppm	25.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	96.3149 %	111.1869 %	102.3412 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	96.186 %	111.140 %	102.262 %
Concentration per Run 2	96.482 %	111.374 %	102.576 %
Concentration per Run 3	96.277 %	111.047 %	102.186 %
Concentration RSD	0.2 %	0.2 %	0.2 %
Concentration SD	0.2 %	0.2 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.1351 %	12.2841 ppm
Concentration per Run 1	100.887 %	-4.714 ppm
Concentration per Run 2	101.405 %	11.917 ppm
Concentration per Run 3	101.114 %	29.649 ppm
Concentration RSD	0.3 %	139.9 %
Concentration SD	0.3 %	17.2 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	7 cps	2,961 cps	132 cps	3,250 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1,156 cps	2 cps	-1 cps	95 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	164 cps	30,294 cps	671 cps	41,923 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1,815 cps	266 cps	13,966 cps	7,479 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	451 cps	2,221 cps	3,329 cps	168 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	52 cps	11 cps	69 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	34,622 cps	19 cps	485 cps	37 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	14 cps	3,606 cps	11,722 cps	12 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	957 cps	4,844 cps	8,040 cps	173,749 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,886 cps	27 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	5.2029 ppm	146.1722 ppm	6.7065 ppm
Concentration per Run 1	5.273 ppm	146.263 ppm	6.695 ppm
Concentration per Run 2	5.233 ppm	146.218 ppm	6.702 ppm
Concentration per Run 3	5.103 ppm	146.036 ppm	6.722 ppm
Concentration RSD	1.7 %	0.1 %	0.2 %
Concentration SD	0.1 ppm	0.1 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	260.3044 ppm	1,964.9505 ppm	1.1393 ppm
Concentration per Run 1	259.990 ppm	1,967.233 ppm	1.025 ppm
Concentration per Run 2	260.120 ppm	1,961.480 ppm	1.251 ppm
Concentration per Run 3	260.803 ppm	1,966.139 ppm	1.142 ppm
Concentration RSD	0.2 %	0.2 %	9.9 %
Concentration SD	0.4 ppm	3.1 ppm	0.1 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	1.2106 ppm	68.1001 ppm	37.8372 ppm
Concentration per Run 1	1.156 ppm	66.228 ppm	37.933 ppm
Concentration per Run 2	1.174 ppm	68.993 ppm	37.939 ppm
Concentration per Run 3	1.302 ppm	69.079 ppm	37.639 ppm
Concentration RSD	6.6 %	2.4 %	0.5 %
Concentration SD	0.1 ppm	1.6 ppm	0.2 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	530.6731 ppm	4,512.1132 ppm	34,725.2576 ppm
Concentration per Run 1	530.992 ppm	4,371.245 ppm	
Concentration per Run 2	529.543 ppm	4,563.630 ppm	34,647.699 ppm
Concentration per Run 3	531.484 ppm	4,601.464 ppm	34,802.816 ppm
Concentration RSD	0.2 %	2.7 %	0.3 %
Concentration SD	1.0 ppm	123.5 ppm	109.7 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	38,608.1321 ppm	10.6095 ppm	11,825.9598 ppm
Concentration per Run 1	37,600.311 ppm	10.187 ppm	
Concentration per Run 2	38,993.328 ppm	10.676 ppm	11,798.100 ppm
Concentration per Run 3	39,230.758 ppm	10.965 ppm	11,853.819 ppm
Concentration RSD	2.3 %	3.7 %	0.3 %
Concentration SD	880.8 ppm	0.4 ppm	39.4 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	12,763.3146 ppm	3,777.6638 ppm	1,930.8904 ppm
Concentration per Run 1		3,669.659 ppm	

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	12,720.270 ppm	3,814.408 ppm	1,928.608 ppm
Concentration per Run 3	12,806.359 ppm	3,848.924 ppm	1,933.173 ppm
Concentration RSD	0.5 %	2.5 %	0.2 %
Concentration SD	60.9 ppm	95.1 ppm	3.2 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	1,016.5371 ppm	1,103.8008 ppm	2.9517 ppm
Concentration per Run 1		1,051.746 ppm	2.849 ppm
Concentration per Run 2	1,013.733 ppm	1,127.861 ppm	3.089 ppm
Concentration per Run 3	1,019.341 ppm	1,131.795 ppm	2.917 ppm
Concentration RSD	0.4 %	4.1 %	4.2 %
Concentration SD	4.0 ppm	45.1 ppm	0.1 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.2608 ppm	6.4003 ppm	0.0609 ppm
Concentration per Run 1	0.254 ppm	6.425 ppm	0.058 ppm
Concentration per Run 2	0.269 ppm	6.373 ppm	0.009 ppm
Concentration per Run 3	0.260 ppm	6.403 ppm	0.116 ppm
Concentration RSD	2.9 %	0.4 %	87.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	293.0606 ppm	19.0055 ppm	151.9662 ppm
Concentration per Run 1	293.330 ppm	18.586 ppm	146.703 ppm
Concentration per Run 2	293.029 ppm	19.395 ppm	154.426 ppm
Concentration per Run 3	292.823 ppm	19.035 ppm	154.769 ppm
Concentration RSD	0.1 %	2.1 %	3.0 %
Concentration SD	0.3 ppm	0.4 ppm	4.6 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	3.2411 ppm	12.2805 ppm	69.9555 ppm
Concentration per Run 1	3.175 ppm	11.094 ppm	
Concentration per Run 2	3.261 ppm	12.795 ppm	69.788 ppm
Concentration per Run 3	3.288 ppm	12.952 ppm	70.123 ppm
Concentration RSD	1.8 %	8.4 %	0.3 %
Concentration SD	0.1 ppm	1.0 ppm	0.2 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	1,917.4391 ppm	2.8835 ppm	1,488.9885 ppm
Concentration per Run 1	1,919.471 ppm	2.863 ppm	1,489.191 ppm
Concentration per Run 2	1,920.089 ppm	2.878 ppm	1,485.152 ppm
Concentration per Run 3	1,912.756 ppm	2.909 ppm	1,492.623 ppm
Concentration RSD	0.2 %	0.8 %	0.3 %
Concentration SD	4.1 ppm	0.0 ppm	3.7 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	83.6627 %	113.6667 %	98.9176 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	83.685 %	115.004 %	98.857 %
Concentration per Run 2	83.479 %	113.442 %	98.964 %
Concentration per Run 3	83.824 %	112.554 %	98.932 %
Concentration RSD	0.2 %	1.1 %	0.1 %
Concentration SD	0.2 %	1.2 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	96.7811 %	39.9282 ppm
Concentration per Run 1	96.907 %	33.623 ppm
Concentration per Run 2	96.585 %	45.415 ppm
Concentration per Run 3	96.851 %	40.747 ppm
Concentration RSD	0.2 %	14.9 %
Concentration SD	0.2 %	5.9 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	24 cps	10,375 cps	558 cps	23,417 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	13,650 cps	3 cps	89 cps	350 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	675 cps	27,924 cps	3,013 cps	192,309 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	8,602 cps	1,245 cps	56,384 cps	30,206 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1,744 cps	9,813 cps	14,810 cps	1,038 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	16 cps	49 cps	310 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	159,298 cps	89 cps	2,234 cps	130 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	39 cps	15,278 cps	46,360 cps	33 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	3,692 cps	4,207 cps	8,219 cps	167,936 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,116 cps	129 cps

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Sample Type QC Analysis Date 10/19/2015 10:15:26 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0412 ppm	0.4999 ppm	0.5001 ppm	0.9832 ppm
Concentration per Run 1	2.047 ppm	0.501 ppm	0.501 ppm	0.982 ppm
Concentration per Run 2	2.037 ppm	0.500 ppm	0.500 ppm	0.984 ppm
Concentration per Run 3	2.040 ppm	0.499 ppm	0.500 ppm	0.983 ppm
Concentration RSD	0.3 %	0.1 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.4882 ppm	2.0884 ppm	0.9482 ppm	1.9327 ppm
Concentration per Run 1	0.489 ppm	2.090 ppm	0.947 ppm	1.925 ppm
Concentration per Run 2	0.489 ppm	2.090 ppm	0.950 ppm	1.937 ppm
Concentration per Run 3	0.487 ppm	2.085 ppm	0.948 ppm	1.936 ppm
Concentration RSD	0.3 %	0.1 %	0.2 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.0058 ppm	2.9477 ppm	9.9983 ppm	9.8674 ppm
Concentration per Run 1	2.008 ppm	2.950 ppm	10.028 ppm	9.824 ppm
Concentration per Run 2	2.007 ppm	2.948 ppm	9.966 ppm	9.932 ppm
Concentration per Run 3	2.002 ppm	2.945 ppm	10.001 ppm	9.846 ppm
Concentration RSD	0.2 %	0.1 %	0.3 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.4831 ppm	1.4047 ppm	47.6795 ppm	50.8051 ppm
Concentration per Run 1	10.318 ppm	1.403 ppm	47.438 ppm	50.576 ppm
Concentration per Run 2	10.600 ppm	1.408 ppm	47.936 ppm	51.144 ppm
Concentration per Run 3	10.532 ppm	1.403 ppm	47.664 ppm	50.695 ppm
Concentration RSD	1.4 %	0.2 %	0.5 %	0.6 %
Concentration SD	0.1 ppm	0.0 ppm	0.2 ppm	0.3 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	9.4703 ppm	51.6445 ppm	47.3810 ppm	49.8319 ppm
Concentration per Run 1	9.413 ppm	51.535 ppm	47.258 ppm	49.790 ppm
Concentration per Run 2	9.544 ppm	51.853 ppm	47.566 ppm	49.888 ppm
Concentration per Run 3	9.455 ppm	51.545 ppm	47.319 ppm	49.818 ppm
Concentration RSD	0.7 %	0.4 %	0.3 %	0.1 %
Concentration SD	0.1 ppm	0.2 ppm	0.2 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0000 ppm	0.2005 ppm	0.9906 ppm	1.8813 ppm
Concentration per Run 1	2.004 ppm	0.200 ppm	0.991 ppm	1.888 ppm
Concentration per Run 2	2.002 ppm	0.202 ppm	0.992 ppm	1.877 ppm
Concentration per Run 3	1.994 ppm	0.200 ppm	0.988 ppm	1.879 ppm
Concentration RSD	0.2 %	0.5 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9790 ppm	0.9803 ppm	0.9953 ppm	0.5065 ppm
Concentration per Run 1	0.977 ppm	0.980 ppm	0.990 ppm	0.507 ppm
Concentration per Run 2	0.979 ppm	0.980 ppm	0.998 ppm	0.507 ppm
Concentration per Run 3	0.981 ppm	0.980 ppm	0.998 ppm	0.505 ppm
Concentration RSD	0.2 %	0.0 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.9287 ppm	0.9627 ppm	1.9085 ppm	1.8981 ppm
Concentration per Run 1	1.925 ppm	0.963 ppm	1.897 ppm	1.897 ppm
Concentration per Run 2	1.929 ppm	0.965 ppm	1.920 ppm	1.901 ppm
Concentration per Run 3	1.932 ppm	0.960 ppm	1.908 ppm	1.896 ppm
Concentration RSD	0.2 %	0.3 %	0.6 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	5.4553 ppm	89.4941 %	106.0880 %	96.3727 %
Concentration per Run 1	5.453 ppm	89.376 %	106.975 %	96.422 %
Concentration per Run 2	5.454 ppm	89.580 %	105.251 %	96.294 %
Concentration per Run 3	5.459 ppm	89.526 %	106.038 %	96.402 %
Concentration RSD	0.1 %	0.1 %	0.8 %	0.1 %
Concentration SD	0.0 ppm	0.1 %	0.9 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	96.7241 %	0.0478 ppm
Concentration per Run 1	96.644 %	0.112 ppm
Concentration per Run 2	96.827 %	0.009 ppm
Concentration per Run 3	96.702 %	0.023 ppm
Concentration RSD	0.1 %	116.7 %
Concentration SD	0.1 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,046 cps	3,548 cps	4,145 cps	8,619 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	361 cps	772 cps	8,158 cps	908 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,841 cps	15,502 cps	633 cps	5,131 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	219 cps	15,275 cps	21,380 cps	11,303 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	408 cps	24,476 cps	64,986 cps	4,693 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,014 cps	3,824 cps	5,163 cps	903 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	51,859 cps	431 cps	1,366 cps	1,977 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	543 cps	19,751 cps	4,530 cps	2,023 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,352 cps	4,501 cps	7,671 cps	163,616 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,106 cps	33 cps

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Sample Type QC Analysis Date 10/19/2015 10:18:09 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0007 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	225.2 %	29.8 %	168.1 %	1,203.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0011 ppm	0.0063 ppm	0.0002 ppm	-0.0029 ppm
Concentration per Run 1	0.000 ppm	0.005 ppm	0.000 ppm	0.003 ppm
Concentration per Run 2	0.001 ppm	0.004 ppm	0.001 ppm	-0.009 ppm
Concentration per Run 3	0.002 ppm	0.009 ppm	0.000 ppm	-0.003 ppm
Concentration RSD	75.2 %	41.6 %	282.6 %	210.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0035 ppm	0.0052 ppm	-0.0412 ppm	0.0196 ppm
Concentration per Run 1	0.004 ppm	0.005 ppm	0.034 ppm	0.022 ppm
Concentration per Run 2	0.004 ppm	0.005 ppm	-0.066 ppm	0.020 ppm
Concentration per Run 3	0.003 ppm	0.005 ppm	-0.091 ppm	0.017 ppm
Concentration RSD	11.7 %	5.7 %	160.7 %	14.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0101 ppm	0.0004 ppm	0.0868 ppm	0.0796 ppm
Concentration per Run 1	0.026 ppm	0.000 ppm	0.084 ppm	0.078 ppm
Concentration per Run 2	-0.058 ppm	0.001 ppm	0.087 ppm	0.078 ppm
Concentration per Run 3	0.003 ppm	0.000 ppm	0.090 ppm	0.083 ppm
Concentration RSD	429.5 %	130.2 %	3.2 %	3.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0245 ppm	0.1465 ppm	0.0516 ppm	0.0526 ppm
Concentration per Run 1	-0.026 ppm	0.169 ppm	0.056 ppm	0.137 ppm
Concentration per Run 2	0.037 ppm	0.163 ppm	0.048 ppm	-0.072 ppm
Concentration per Run 3	0.062 ppm	0.108 ppm	0.051 ppm	0.093 ppm
Concentration RSD	186.6 %	22.9 %	7.8 %	210.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0057 ppm	0.0001 ppm	-0.0001 ppm	0.0005 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.005 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.007 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	15.2 %	42.1 %	142.7 %	229.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0004 ppm	-0.0027 ppm	0.0012 ppm	0.0006 ppm
Concentration per Run 1	0.000 ppm	-0.001 ppm	0.002 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.005 ppm	0.003 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	-0.002 ppm	-0.002 ppm	0.000 ppm
Concentration RSD	34.5 %	94.3 %	213.6 %	38.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0059 ppm	0.0002 ppm	0.0031 ppm	-0.0005 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.003 ppm	-0.001 ppm
Concentration per Run 2	0.008 ppm	0.000 ppm	0.005 ppm	-0.001 ppm
Concentration per Run 3	0.004 ppm	0.000 ppm	0.001 ppm	0.000 ppm
Concentration RSD	35.6 %	17.3 %	57.6 %	82.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0114 ppm	103.6219 %	107.9714 %	104.1025 %
Concentration per Run 1	0.012 ppm	103.411 %	107.398 %	103.842 %
Concentration per Run 2	0.008 ppm	104.042 %	107.941 %	104.218 %
Concentration per Run 3	0.015 ppm	103.413 %	108.576 %	104.247 %
Concentration RSD	32.0 %	0.4 %	0.5 %	0.2 %
Concentration SD	0.0 ppm	0.4 %	0.6 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	102.6751 %	-0.0057 ppm
Concentration per Run 1	102.525 %	-0.009 ppm
Concentration per Run 2	103.075 %	-0.043 ppm
Concentration per Run 3	102.425 %	0.035 ppm
Concentration RSD	0.3 %	684.4 %
Concentration SD	0.4 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	5 cps	3 cps	2 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	2 cps	-17 cps	8 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	4 cps	30 cps	10 cps	11 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	13 cps	104 cps	42 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	171 cps	23 cps	-88 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	-2 cps	-3 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	39 cps	-1 cps	1 cps	6 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-23 cps	49 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2 cps	5,211 cps	7,808 cps	176,739 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	18,158 cps	19 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	5.6472 ppm	155.4570 ppm	6.3861 ppm
Concentration per Run 1	5.751 ppm	155.553 ppm	6.403 ppm
Concentration per Run 2	5.659 ppm	155.533 ppm	6.387 ppm
Concentration per Run 3	5.532 ppm	155.285 ppm	6.368 ppm
Concentration RSD	2.0 %	0.1 %	0.3 %
Concentration SD	0.1 ppm	0.1 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	158.4994 ppm	309.8518 ppm	1.1814 ppm
Concentration per Run 1	158.460 ppm	309.981 ppm	1.453 ppm
Concentration per Run 2	158.339 ppm	309.154 ppm	0.824 ppm
Concentration per Run 3	158.699 ppm	310.421 ppm	1.267 ppm
Concentration RSD	0.1 %	0.2 %	27.3 %
Concentration SD	0.2 ppm	0.6 ppm	0.3 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0046 ppm	54.1542 ppm	37.5206 ppm
Concentration per Run 1	-0.003 ppm	55.068 ppm	37.563 ppm
Concentration per Run 2	0.024 ppm	53.651 ppm	37.476 ppm
Concentration per Run 3	-0.008 ppm	53.743 ppm	37.523 ppm
Concentration RSD	377.7 %	1.5 %	0.1 %
Concentration SD	0.0 ppm	0.8 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	362.3887 ppm	5,032.6371 ppm	18,917.4181 ppm
Concentration per Run 1	362.357 ppm	5,046.967 ppm	18,955.596 ppm
Concentration per Run 2	361.948 ppm	5,030.393 ppm	18,951.492 ppm
Concentration per Run 3	362.861 ppm	5,020.551 ppm	18,845.166 ppm
Concentration RSD	0.1 %	0.3 %	0.3 %
Concentration SD	0.5 ppm	13.4 ppm	62.6 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	20,828.8760 ppm	11.1100 ppm	8,452.0117 ppm
Concentration per Run 1	20,847.244 ppm	11.225 ppm	8,472.745 ppm
Concentration per Run 2	20,811.011 ppm	11.202 ppm	8,470.605 ppm
Concentration per Run 3	20,828.373 ppm	10.903 ppm	8,412.686 ppm
Concentration RSD	0.1 %	1.6 %	0.4 %
Concentration SD	18.1 ppm	0.2 ppm	34.1 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	9,122.5544 ppm	3,751.7439 ppm	1,983.2193 ppm
Concentration per Run 1	9,144.420 ppm	3,747.876 ppm	1,993.218 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	9,135.322 ppm	3,754.390 ppm	1,985.027 ppm
Concentration per Run 3	9,087.921 ppm	3,752.966 ppm	1,971.413 ppm
Concentration RSD	0.3 %	0.1 %	0.6 %
Concentration SD	30.3 ppm	3.4 ppm	11.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	330.8772 ppm	391.7014 ppm	2.4615 ppm
Concentration per Run 1	332.960 ppm	379.033 ppm	2.538 ppm
Concentration per Run 2	329.780 ppm	389.751 ppm	2.246 ppm
Concentration per Run 3	329.891 ppm	406.320 ppm	2.600 ppm
Concentration RSD	0.5 %	3.5 %	7.7 %
Concentration SD	1.8 ppm	13.7 ppm	0.2 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.2505 ppm	6.0938 ppm	-0.1238 ppm
Concentration per Run 1	0.240 ppm	6.088 ppm	-0.013 ppm
Concentration per Run 2	0.252 ppm	6.101 ppm	-0.179 ppm
Concentration per Run 3	0.260 ppm	6.092 ppm	-0.179 ppm
Concentration RSD	4.0 %	0.1 %	77.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	196.6675 ppm	20.1394 ppm	178.1929 ppm
Concentration per Run 1	196.899 ppm	19.954 ppm	177.949 ppm
Concentration per Run 2	196.161 ppm	20.228 ppm	178.348 ppm
Concentration per Run 3	196.942 ppm	20.236 ppm	178.281 ppm
Concentration RSD	0.2 %	0.8 %	0.1 %
Concentration SD	0.4 ppm	0.2 ppm	0.2 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	4.0716 ppm	8.3125 ppm	47.5738 ppm
Concentration per Run 1	4.057 ppm	8.756 ppm	47.776 ppm
Concentration per Run 2	4.083 ppm	7.820 ppm	47.645 ppm
Concentration per Run 3	4.074 ppm	8.362 ppm	47.301 ppm
Concentration RSD	0.3 %	5.7 %	0.5 %
Concentration SD	0.0 ppm	0.5 ppm	0.2 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	2,689.7623 ppm	3.1249 ppm	706.9251 ppm
Concentration per Run 1	2,691.781 ppm	3.119 ppm	706.522 ppm
Concentration per Run 2	2,686.470 ppm	3.200 ppm	707.504 ppm
Concentration per Run 3	2,691.037 ppm	3.056 ppm	706.749 ppm
Concentration RSD	0.1 %	2.3 %	0.1 %
Concentration SD	2.9 ppm	0.1 ppm	0.5 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	87.5770 %	113.9074 %	100.4440 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	87.654 %	113.738 %	100.471 %
Concentration per Run 2	87.442 %	113.865 %	100.691 %
Concentration per Run 3	87.635 %	114.119 %	100.169 %
Concentration RSD	0.1 %	0.2 %	0.3 %
Concentration SD	0.1 %	0.2 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	98.9627 %	30.9327 ppm
Concentration per Run 1	99.150 %	34.519 ppm
Concentration per Run 2	98.662 %	26.625 ppm
Concentration per Run 3	99.076 %	31.654 ppm
Concentration RSD	0.3 %	12.9 %
Concentration SD	0.3 %	4.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	28 cps	11,508 cps	554 cps	14,769 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	2,296 cps	4 cps	-18 cps	286 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	714 cps	19,889 cps	3,434 cps	107,721 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	4,745 cps	1,332 cps	41,453 cps	22,206 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1,770 cps	10,358 cps	4,922 cps	314 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	14 cps	48 cps	315 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	110,728 cps	97 cps	2,679 cps	169 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	27 cps	10,674 cps	67,340 cps	37 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,828 cps	4,404 cps	8,237 cps	170,528 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,502 cps	106 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	4.1335 ppm	118.4000 ppm	1.8833 ppm
Concentration per Run 1	4.082 ppm	118.361 ppm	1.874 ppm
Concentration per Run 2	4.067 ppm	118.663 ppm	1.896 ppm
Concentration per Run 3	4.251 ppm	118.176 ppm	1.880 ppm
Concentration RSD	2.5 %	0.2 %	0.6 %
Concentration SD	0.1 ppm	0.2 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	36.1927 ppm	209.0878 ppm	0.6869 ppm
Concentration per Run 1	36.349 ppm	209.411 ppm	0.470 ppm
Concentration per Run 2	36.183 ppm	209.038 ppm	0.935 ppm
Concentration per Run 3	36.046 ppm	208.814 ppm	0.656 ppm
Concentration RSD	0.4 %	0.1 %	34.1 %
Concentration SD	0.2 ppm	0.3 ppm	0.2 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0306 ppm	117.2063 ppm	29.8358 ppm
Concentration per Run 1	0.024 ppm	117.129 ppm	29.814 ppm
Concentration per Run 2	0.031 ppm	116.107 ppm	29.839 ppm
Concentration per Run 3	0.037 ppm	118.383 ppm	29.854 ppm
Concentration RSD	21.4 %	1.0 %	0.1 %
Concentration SD	0.0 ppm	1.1 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	162.7306 ppm	4,237.9147 ppm	14,761.4984 ppm
Concentration per Run 1	162.525 ppm	4,243.595 ppm	14,783.911 ppm
Concentration per Run 2	163.037 ppm	4,228.576 ppm	14,740.723 ppm
Concentration per Run 3	162.630 ppm	4,241.573 ppm	14,759.861 ppm
Concentration RSD	0.2 %	0.2 %	0.1 %
Concentration SD	0.3 ppm	8.2 ppm	21.6 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	16,151.0963 ppm	7.8582 ppm	13,120.0279 ppm
Concentration per Run 1	16,134.533 ppm	7.849 ppm	13,141.964 ppm
Concentration per Run 2	16,200.891 ppm	7.884 ppm	13,103.780 ppm
Concentration per Run 3	16,117.865 ppm	7.842 ppm	13,114.339 ppm
Concentration RSD	0.3 %	0.3 %	0.2 %
Concentration SD	43.9 ppm	0.0 ppm	19.7 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	14,085.5971 ppm	4,650.0248 ppm	1,371.5422 ppm
Concentration per Run 1	14,098.138 ppm	4,642.854 ppm	1,373.491 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	14,087.985 ppm	4,687.488 ppm	1,365.060 ppm
Concentration per Run 3	14,070.669 ppm	4,619.732 ppm	1,376.076 ppm
Concentration RSD	0.1 %	0.7 %	0.4 %
Concentration SD	13.9 ppm	34.4 ppm	5.8 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	323.4678 ppm	377.7771 ppm	2.4047 ppm
Concentration per Run 1	323.394 ppm	379.096 ppm	2.243 ppm
Concentration per Run 2	322.866 ppm	374.372 ppm	2.325 ppm
Concentration per Run 3	324.144 ppm	379.864 ppm	2.646 ppm
Concentration RSD	0.2 %	0.8 %	8.8 %
Concentration SD	0.6 ppm	3.0 ppm	0.2 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.2464 ppm	4.5228 ppm	-0.2578 ppm
Concentration per Run 1	0.244 ppm	4.531 ppm	-0.255 ppm
Concentration per Run 2	0.248 ppm	4.536 ppm	-0.261 ppm
Concentration per Run 3	0.247 ppm	4.501 ppm	-0.257 ppm
Concentration RSD	0.8 %	0.4 %	1.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	342.7919 ppm	22.9973 ppm	158.1812 ppm
Concentration per Run 1	342.811 ppm	22.719 ppm	157.671 ppm
Concentration per Run 2	343.190 ppm	23.192 ppm	158.074 ppm
Concentration per Run 3	342.375 ppm	23.081 ppm	158.799 ppm
Concentration RSD	0.1 %	1.1 %	0.4 %
Concentration SD	0.4 ppm	0.2 ppm	0.6 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	2.9967 ppm	3.9491 ppm	53.2240 ppm
Concentration per Run 1	2.988 ppm	3.519 ppm	53.323 ppm
Concentration per Run 2	3.009 ppm	4.756 ppm	52.991 ppm
Concentration per Run 3	2.993 ppm	3.572 ppm	53.358 ppm
Concentration RSD	0.4 %	17.7 %	0.4 %
Concentration SD	0.0 ppm	0.7 ppm	0.2 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	1,908.5586 ppm	4.7520 ppm	300.3675 ppm
Concentration per Run 1	1,905.417 ppm	4.803 ppm	300.872 ppm
Concentration per Run 2	1,911.488 ppm	4.674 ppm	301.000 ppm
Concentration per Run 3	1,908.771 ppm	4.779 ppm	299.231 ppm
Concentration RSD	0.2 %	1.4 %	0.3 %
Concentration SD	3.0 ppm	0.1 ppm	1.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	86.4360 %	112.1235 %	99.4898 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	86.458 %	112.195 %	99.338 %
Concentration per Run 2	86.483 %	112.049 %	99.625 %
Concentration per Run 3	86.367 %	112.126 %	99.506 %
Concentration RSD	0.1 %	0.1 %	0.1 %
Concentration SD	0.1 %	0.1 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	97.6144 %	27.5646 ppm
Concentration per Run 1	97.675 %	23.917 ppm
Concentration per Run 2	97.605 %	29.611 ppm
Concentration per Run 3	97.563 %	29.166 ppm
Concentration RSD	0.1 %	11.5 %
Concentration SD	0.1 %	3.2 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	19 cps	8,646 cps	162 cps	3,342 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1,529 cps	2 cps	-15 cps	598 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	560 cps	8,810 cps	2,849 cps	82,740 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	3,622 cps	930 cps	63,303 cps	33,736 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2,160 cps	7,084 cps	4,735 cps	295 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	14 cps	46 cps	231 cps	-4 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	191,153 cps	109 cps	2,340 cps	124 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	14 cps	11,758 cps	47,340 cps	54 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	766 cps	4,347 cps	8,108 cps	168,908 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,263 cps	97 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	6.7643 ppm	245.9283 ppm	24.6199 ppm
Concentration per Run 1	6.440 ppm	246.333 ppm	24.571 ppm
Concentration per Run 2	6.675 ppm	246.011 ppm	24.727 ppm
Concentration per Run 3	7.178 ppm	245.441 ppm	24.562 ppm
Concentration RSD	5.6 %	0.2 %	0.4 %
Concentration SD	0.4 ppm	0.5 ppm	0.1 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	55.4456 ppm	696.8872 ppm	0.8161 ppm
Concentration per Run 1	55.593 ppm	698.051 ppm	1.127 ppm
Concentration per Run 2	55.207 ppm	696.736 ppm	0.734 ppm
Concentration per Run 3	55.537 ppm	695.874 ppm	0.587 ppm
Concentration RSD	0.4 %	0.2 %	34.2 %
Concentration SD	0.2 ppm	1.1 ppm	0.3 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0100 ppm	89.9751 ppm	107.7545 ppm
Concentration per Run 1	0.000 ppm	89.977 ppm	108.096 ppm
Concentration per Run 2	-0.011 ppm	89.910 ppm	107.700 ppm
Concentration per Run 3	0.041 ppm	90.039 ppm	107.467 ppm
Concentration RSD	275.9 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.1 ppm	0.3 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1,385.0464 ppm	9,359.4404 ppm	26,122.6566 ppm
Concentration per Run 1	1,389.575 ppm	9,341.624 ppm	26,152.086 ppm
Concentration per Run 2	1,385.429 ppm	9,382.113 ppm	26,116.385 ppm
Concentration per Run 3	1,380.135 ppm	9,354.584 ppm	26,099.499 ppm
Concentration RSD	0.3 %	0.2 %	0.1 %
Concentration SD	4.7 ppm	20.7 ppm	26.8 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	29,127.6220 ppm	18.8690 ppm	7,781.1200 ppm
Concentration per Run 1	29,112.783 ppm	18.830 ppm	7,807.816 ppm
Concentration per Run 2	29,214.687 ppm	18.924 ppm	7,773.441 ppm
Concentration per Run 3	29,055.396 ppm	18.852 ppm	7,762.103 ppm
Concentration RSD	0.3 %	0.3 %	0.3 %
Concentration SD	80.7 ppm	0.0 ppm	23.8 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	8,428.9605 ppm	5,846.9432 ppm	2,699.8420 ppm
Concentration per Run 1	8,440.865 ppm	5,855.259 ppm	2,702.478 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	8,426.286 ppm	5,851.639 ppm	2,698.350 ppm
Concentration per Run 3	8,419.731 ppm	5,833.932 ppm	2,698.698 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %
Concentration SD	10.8 ppm	11.4 ppm	2.3 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	185.8691 ppm	248.4530 ppm	5.8656 ppm
Concentration per Run 1	184.829 ppm	241.266 ppm	5.719 ppm
Concentration per Run 2	186.605 ppm	259.685 ppm	5.967 ppm
Concentration per Run 3	186.173 ppm	244.407 ppm	5.911 ppm
Concentration RSD	0.5 %	4.0 %	2.2 %
Concentration SD	0.9 ppm	9.9 ppm	0.1 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.4454 ppm	10.4509 ppm	-0.0208 ppm
Concentration per Run 1	0.449 ppm	10.477 ppm	-0.089 ppm
Concentration per Run 2	0.443 ppm	10.441 ppm	-0.016 ppm
Concentration per Run 3	0.444 ppm	10.435 ppm	0.043 ppm
Concentration RSD	0.7 %	0.2 %	319.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	296.1560 ppm	31.5401 ppm	264.2229 ppm
Concentration per Run 1	296.805 ppm	31.540 ppm	263.350 ppm
Concentration per Run 2	294.835 ppm	31.513 ppm	264.962 ppm
Concentration per Run 3	296.827 ppm	31.567 ppm	264.357 ppm
Concentration RSD	0.4 %	0.1 %	0.3 %
Concentration SD	1.1 ppm	0.0 ppm	0.8 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	3.6569 ppm	10.1373 ppm	45.9385 ppm
Concentration per Run 1	3.665 ppm	11.363 ppm	45.924 ppm
Concentration per Run 2	3.632 ppm	9.059 ppm	45.959 ppm
Concentration per Run 3	3.673 ppm	9.990 ppm	45.933 ppm
Concentration RSD	0.6 %	11.4 %	0.0 %
Concentration SD	0.0 ppm	1.2 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	3,220.5035 ppm	5.5476 ppm	552.8493 ppm
Concentration per Run 1	3,221.483 ppm	5.540 ppm	552.996 ppm
Concentration per Run 2	3,211.338 ppm	5.619 ppm	554.394 ppm
Concentration per Run 3	3,228.690 ppm	5.483 ppm	551.158 ppm
Concentration RSD	0.3 %	1.2 %	0.3 %
Concentration SD	8.7 ppm	0.1 ppm	1.6 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	84.1491 %	114.2200 %	99.6859 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	84.210 %	114.259 %	99.746 %
Concentration per Run 2	84.189 %	114.320 %	99.798 %
Concentration per Run 3	84.048 %	114.081 %	99.513 %
Concentration RSD	0.1 %	0.1 %	0.2 %
Concentration SD	0.1 %	0.1 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	97.7908 %	51.3156 ppm
Concentration per Run 1	97.948 %	52.131 ppm
Concentration per Run 2	97.703 %	54.221 ppm
Concentration per Run 3	97.722 %	47.595 ppm
Concentration RSD	0.1 %	6.6 %
Concentration SD	0.1 %	3.4 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	33 cps	17,988 cps	2,105 cps	5,129 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	4,965 cps	2 cps	-17 cps	470 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1,978 cps	75,113 cps	6,393 cps	149,158 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	6,653 cps	2,261 cps	38,273 cps	20,576 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2,766 cps	14,102 cps	2,750 cps	164 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	32 cps	89 cps	521 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	165,475 cps	152 cps	3,983 cps	150 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	33 cps	10,335 cps	80,011 cps	63 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,413 cps	4,232 cps	8,259 cps	169,241 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,295 cps	163 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	5.7724 ppm	258.5269 ppm	24.1812 ppm
Concentration per Run 1	5.695 ppm	258.754 ppm	24.250 ppm
Concentration per Run 2	6.417 ppm	258.670 ppm	24.200 ppm
Concentration per Run 3	5.204 ppm	258.157 ppm	24.094 ppm
Concentration RSD	10.6 %	0.1 %	0.3 %
Concentration SD	0.6 ppm	0.3 ppm	0.1 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	57.8325 ppm	676.1114 ppm	2.2620 ppm
Concentration per Run 1	57.738 ppm	676.970 ppm	3.113 ppm
Concentration per Run 2	58.068 ppm	677.199 ppm	1.143 ppm
Concentration per Run 3	57.691 ppm	674.165 ppm	2.530 ppm
Concentration RSD	0.4 %	0.2 %	44.7 %
Concentration SD	0.2 ppm	1.7 ppm	1.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.2973 ppm	91.4808 ppm	102.0096 ppm
Concentration per Run 1	0.206 ppm	91.113 ppm	102.051 ppm
Concentration per Run 2	0.455 ppm	90.749 ppm	101.684 ppm
Concentration per Run 3	0.231 ppm	92.580 ppm	102.294 ppm
Concentration RSD	46.2 %	1.1 %	0.3 %
Concentration SD	0.1 ppm	1.0 ppm	0.3 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1,479.7866 ppm	9,581.1432 ppm	28,338.1770 ppm
Concentration per Run 1	1,483.956 ppm	9,571.307 ppm	28,340.934 ppm
Concentration per Run 2	1,479.740 ppm	9,575.967 ppm	28,395.184 ppm
Concentration per Run 3	1,475.664 ppm	9,596.156 ppm	28,278.413 ppm
Concentration RSD	0.3 %	0.1 %	0.2 %
Concentration SD	4.1 ppm	13.2 ppm	58.4 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	30,378.8967 ppm	18.5606 ppm	8,158.8137 ppm
Concentration per Run 1	30,325.425 ppm	18.092 ppm	8,168.738 ppm
Concentration per Run 2	30,563.164 ppm	19.040 ppm	8,158.578 ppm
Concentration per Run 3	30,248.101 ppm	18.550 ppm	8,149.126 ppm
Concentration RSD	0.5 %	2.6 %	0.1 %
Concentration SD	164.2 ppm	0.5 ppm	9.8 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	8,810.4761 ppm	6,134.9733 ppm	2,787.6187 ppm
Concentration per Run 1	8,800.323 ppm	6,118.600 ppm	2,804.331 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	8,791.182 ppm	6,149.677 ppm	2,778.621 ppm
Concentration per Run 3	8,839.923 ppm	6,136.642 ppm	2,779.904 ppm
Concentration RSD	0.3 %	0.3 %	0.5 %
Concentration SD	25.9 ppm	15.6 ppm	14.5 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	185.8965 ppm	279.8655 ppm	5.4008 ppm
Concentration per Run 1	191.177 ppm	287.069 ppm	5.987 ppm
Concentration per Run 2	182.018 ppm	268.746 ppm	5.216 ppm
Concentration per Run 3	184.494 ppm	283.782 ppm	5.000 ppm
Concentration RSD	2.5 %	3.5 %	9.6 %
Concentration SD	4.7 ppm	9.8 ppm	0.5 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.4623 ppm	9.9235 ppm	0.4702 ppm
Concentration per Run 1	0.462 ppm	9.858 ppm	0.736 ppm
Concentration per Run 2	0.415 ppm	9.972 ppm	-0.439 ppm
Concentration per Run 3	0.510 ppm	9.940 ppm	1.113 ppm
Concentration RSD	10.3 %	0.6 %	172.2 %
Concentration SD	0.0 ppm	0.1 ppm	0.8 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	309.8678 ppm	33.2225 ppm	277.2214 ppm
Concentration per Run 1	309.704 ppm	33.097 ppm	278.754 ppm
Concentration per Run 2	310.943 ppm	33.511 ppm	275.144 ppm
Concentration per Run 3	308.957 ppm	33.059 ppm	277.766 ppm
Concentration RSD	0.3 %	0.8 %	0.7 %
Concentration SD	1.0 ppm	0.3 ppm	1.9 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	3.7269 ppm	12.2310 ppm	47.2295 ppm
Concentration per Run 1	3.722 ppm	9.452 ppm	47.305 ppm
Concentration per Run 2	3.721 ppm	11.214 ppm	47.104 ppm
Concentration per Run 3	3.737 ppm	16.027 ppm	47.279 ppm
Concentration RSD	0.2 %	27.8 %	0.2 %
Concentration SD	0.0 ppm	3.4 ppm	0.1 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	3,437.1901 ppm	5.7600 ppm	542.3520 ppm
Concentration per Run 1	3,443.062 ppm	5.596 ppm	543.539 ppm
Concentration per Run 2	3,440.616 ppm	6.082 ppm	542.108 ppm
Concentration per Run 3	3,427.893 ppm	5.603 ppm	541.409 ppm
Concentration RSD	0.2 %	4.8 %	0.2 %
Concentration SD	8.1 ppm	0.3 ppm	1.1 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	96.6725 %	111.7437 %	103.2515 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	96.637 %	112.098 %	103.262 %
Concentration per Run 2	96.530 %	111.421 %	103.096 %
Concentration per Run 3	96.851 %	111.712 %	103.396 %
Concentration RSD	0.2 %	0.3 %	0.1 %
Concentration SD	0.2 %	0.3 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.5256 %	49.2810 ppm
Concentration per Run 1	101.567 %	60.482 ppm
Concentration per Run 2	101.394 %	43.701 ppm
Concentration per Run 3	101.617 %	43.660 ppm
Concentration RSD	0.1 %	19.7 %
Concentration SD	0.1 %	9.7 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	4 cps	3,929 cps	431 cps	1,110 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1,105 cps	1 cps	-13 cps	102 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	427 cps	16,664 cps	1,291 cps	31,661 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1,359 cps	443 cps	7,905 cps	4,228 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	568 cps	2,931 cps	497 cps	-38 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	7 cps	15 cps	112 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	35,880 cps	31 cps	817 cps	35 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	9 cps	2,056 cps	17,722 cps	15 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	287 cps	4,862 cps	8,080 cps	175,294 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,955 cps	48 cps

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L794850-06 WG822617

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	6.3040 ppm	148.9817 ppm	2.0352 ppm
Concentration per Run 1	6.323 ppm	149.396 ppm	2.044 ppm
Concentration per Run 2	6.218 ppm	149.171 ppm	2.044 ppm
Concentration per Run 3	6.371 ppm	148.379 ppm	2.017 ppm
Concentration RSD	1.2 %	0.4 %	0.8 %
Concentration SD	0.1 ppm	0.5 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	32.0887 ppm	690.2664 ppm	0.9576 ppm
Concentration per Run 1	32.174 ppm	691.469 ppm	0.981 ppm
Concentration per Run 2	32.078 ppm	691.467 ppm	1.224 ppm
Concentration per Run 3	32.013 ppm	687.864 ppm	0.669 ppm
Concentration RSD	0.3 %	0.3 %	29.1 %
Concentration SD	0.1 ppm	2.1 ppm	0.3 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0226 ppm	46.1546 ppm	44.7950 ppm
Concentration per Run 1	-0.001 ppm	45.765 ppm	44.973 ppm
Concentration per Run 2	0.036 ppm	46.379 ppm	44.823 ppm
Concentration per Run 3	0.033 ppm	46.321 ppm	44.589 ppm
Concentration RSD	92.5 %	0.7 %	0.4 %
Concentration SD	0.0 ppm	0.3 ppm	0.2 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	318.8597 ppm	7,637.4130 ppm	20,318.4446 ppm
Concentration per Run 1	319.702 ppm	7,655.794 ppm	20,428.485 ppm
Concentration per Run 2	319.157 ppm	7,642.657 ppm	20,288.978 ppm
Concentration per Run 3	317.720 ppm	7,613.788 ppm	20,237.871 ppm
Concentration RSD	0.3 %	0.3 %	0.5 %
Concentration SD	1.0 ppm	21.5 ppm	98.7 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	22,275.4421 ppm	18.1280 ppm	12,532.1281 ppm
Concentration per Run 1	22,222.626 ppm	18.053 ppm	12,599.444 ppm
Concentration per Run 2	22,360.300 ppm	18.258 ppm	12,522.982 ppm
Concentration per Run 3	22,243.400 ppm	18.073 ppm	12,473.958 ppm
Concentration RSD	0.3 %	0.6 %	0.5 %
Concentration SD	74.2 ppm	0.1 ppm	63.2 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	13,489.6292 ppm	5,906.2139 ppm	2,712.7968 ppm
Concentration per Run 1	13,550.504 ppm	5,936.470 ppm	2,726.374 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	13,486.555 ppm	5,906.603 ppm	2,706.495 ppm
Concentration per Run 3	13,431.829 ppm	5,875.569 ppm	2,705.522 ppm
Concentration RSD	0.4 %	0.5 %	0.4 %
Concentration SD	59.4 ppm	30.5 ppm	11.8 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	603.8045 ppm	682.1439 ppm	2.4568 ppm
Concentration per Run 1	607.272 ppm	691.187 ppm	2.300 ppm
Concentration per Run 2	602.473 ppm	659.036 ppm	2.724 ppm
Concentration per Run 3	601.669 ppm	696.208 ppm	2.346 ppm
Concentration RSD	0.5 %	3.0 %	9.5 %
Concentration SD	3.0 ppm	20.2 ppm	0.2 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.3883 ppm	8.1690 ppm	-0.1644 ppm
Concentration per Run 1	0.403 ppm	8.184 ppm	-0.275 ppm
Concentration per Run 2	0.372 ppm	8.155 ppm	0.064 ppm
Concentration per Run 3	0.390 ppm	8.168 ppm	-0.283 ppm
Concentration RSD	3.9 %	0.2 %	120.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.2 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	247.1128 ppm	26.5300 ppm	249.1678 ppm
Concentration per Run 1	247.152 ppm	26.157 ppm	249.325 ppm
Concentration per Run 2	247.463 ppm	27.278 ppm	249.021 ppm
Concentration per Run 3	246.724 ppm	26.155 ppm	249.158 ppm
Concentration RSD	0.2 %	2.4 %	0.1 %
Concentration SD	0.4 ppm	0.6 ppm	0.2 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	2.8787 ppm	21.9084 ppm	58.0505 ppm
Concentration per Run 1	2.904 ppm	21.320 ppm	58.400 ppm
Concentration per Run 2	2.892 ppm	22.184 ppm	57.896 ppm
Concentration per Run 3	2.840 ppm	22.221 ppm	57.856 ppm
Concentration RSD	1.2 %	2.3 %	0.5 %
Concentration SD	0.0 ppm	0.5 ppm	0.3 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	3,128.5186 ppm	1.6452 ppm	579.1013 ppm
Concentration per Run 1	3,132.268 ppm	1.632 ppm	581.718 ppm
Concentration per Run 2	3,129.424 ppm	1.632 ppm	579.433 ppm
Concentration per Run 3	3,123.864 ppm	1.672 ppm	576.153 ppm
Concentration RSD	0.1 %	1.4 %	0.5 %
Concentration SD	4.3 ppm	0.0 ppm	2.8 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	84.3475 %	114.4164 %	99.6299 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	84.241 %	113.908 %	99.612 %
Concentration per Run 2	84.374 %	114.436 %	99.446 %
Concentration per Run 3	84.427 %	114.906 %	99.832 %
Concentration RSD	0.1 %	0.4 %	0.2 %
Concentration SD	0.1 %	0.5 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	97.8197 %	47.7812 ppm
Concentration per Run 1	97.675 %	50.793 ppm
Concentration per Run 2	97.851 %	46.045 ppm
Concentration per Run 3	97.933 %	46.505 ppm
Concentration RSD	0.1 %	5.5 %
Concentration SD	0.1 %	2.6 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	30 cps	10,688 cps	172 cps	2,910 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	4,833 cps	3 cps	-16 cps	242 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	806 cps	16,959 cps	5,126 cps	113,936 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	4,997 cps	2,134 cps	60,497 cps	32,324 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2,744 cps	13,917 cps	8,886 cps	608 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	14 cps	76 cps	400 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	135,292 cps	126 cps	3,689 cps	117 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	68 cps	12,832 cps	76,161 cps	20 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,451 cps	4,242 cps	8,274 cps	169,146 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,300 cps	151 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	4.6737 ppm	103.4048 ppm	2.1391 ppm
Concentration per Run 1	4.665 ppm	104.499 ppm	2.151 ppm
Concentration per Run 2	4.683 ppm	103.161 ppm	2.166 ppm
Concentration per Run 3	4.674 ppm	102.554 ppm	2.101 ppm
Concentration RSD	0.2 %	1.0 %	1.6 %
Concentration SD	0.0 ppm	1.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	35.3008 ppm	362.2068 ppm	0.7601 ppm
Concentration per Run 1	35.408 ppm	365.630 ppm	0.933 ppm
Concentration per Run 2	35.275 ppm	361.771 ppm	0.836 ppm
Concentration per Run 3	35.220 ppm	359.220 ppm	0.511 ppm
Concentration RSD	0.3 %	0.9 %	29.1 %
Concentration SD	0.1 ppm	3.2 ppm	0.2 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	-0.0059 ppm	44.4470 ppm	34.3078 ppm
Concentration per Run 1	-0.019 ppm	44.070 ppm	34.633 ppm
Concentration per Run 2	-0.001 ppm	44.942 ppm	34.122 ppm
Concentration per Run 3	0.002 ppm	44.329 ppm	34.168 ppm
Concentration RSD	196.1 %	1.0 %	0.8 %
Concentration SD	0.0 ppm	0.4 ppm	0.3 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	862.3195 ppm	5,523.9321 ppm	16,680.3400 ppm
Concentration per Run 1	871.466 ppm	5,537.202 ppm	16,706.746 ppm
Concentration per Run 2	861.559 ppm	5,527.193 ppm	16,734.691 ppm
Concentration per Run 3	853.934 ppm	5,507.401 ppm	16,599.583 ppm
Concentration RSD	1.0 %	0.3 %	0.4 %
Concentration SD	8.8 ppm	15.2 ppm	71.3 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	18,265.7638 ppm	11.0728 ppm	4,718.8327 ppm
Concentration per Run 1	18,262.268 ppm	11.000 ppm	4,727.412 ppm
Concentration per Run 2	18,287.770 ppm	11.091 ppm	4,739.093 ppm
Concentration per Run 3	18,247.253 ppm	11.127 ppm	4,689.993 ppm
Concentration RSD	0.1 %	0.6 %	0.5 %
Concentration SD	20.5 ppm	0.1 ppm	25.6 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	5,105.5685 ppm	3,433.8925 ppm	1,536.3995 ppm
Concentration per Run 1	5,100.948 ppm	3,450.821 ppm	1,537.492 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	5,126.502 ppm	3,436.014 ppm	1,542.166 ppm
Concentration per Run 3	5,089.255 ppm	3,414.842 ppm	1,529.540 ppm
Concentration RSD	0.4 %	0.5 %	0.4 %
Concentration SD	19.0 ppm	18.1 ppm	6.4 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	117.4471 ppm	171.1832 ppm	1.4219 ppm
Concentration per Run 1	117.348 ppm	164.196 ppm	1.353 ppm
Concentration per Run 2	117.964 ppm	168.932 ppm	1.549 ppm
Concentration per Run 3	117.028 ppm	180.422 ppm	1.364 ppm
Concentration RSD	0.4 %	4.9 %	7.7 %
Concentration SD	0.5 ppm	8.3 ppm	0.1 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.2998 ppm	7.4244 ppm	0.0254 ppm
Concentration per Run 1	0.298 ppm	7.512 ppm	0.083 ppm
Concentration per Run 2	0.298 ppm	7.396 ppm	-0.053 ppm
Concentration per Run 3	0.304 ppm	7.365 ppm	0.047 ppm
Concentration RSD	1.2 %	1.0 %	277.8 %
Concentration SD	0.0 ppm	0.1 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	225.3656 ppm	19.3652 ppm	127.7854 ppm
Concentration per Run 1	225.412 ppm	19.458 ppm	127.659 ppm
Concentration per Run 2	225.812 ppm	19.089 ppm	127.459 ppm
Concentration per Run 3	224.873 ppm	19.548 ppm	128.239 ppm
Concentration RSD	0.2 %	1.3 %	0.3 %
Concentration SD	0.5 ppm	0.2 ppm	0.4 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	2.8022 ppm	5.2193 ppm	26.2501 ppm
Concentration per Run 1	2.817 ppm	5.116 ppm	26.187 ppm
Concentration per Run 2	2.802 ppm	5.306 ppm	26.336 ppm
Concentration per Run 3	2.787 ppm	5.236 ppm	26.227 ppm
Concentration RSD	0.5 %	1.8 %	0.3 %
Concentration SD	0.0 ppm	0.1 ppm	0.1 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	1,593.1038 ppm	8.9404 ppm	282.6363 ppm
Concentration per Run 1	1,589.629 ppm	9.022 ppm	285.981 ppm
Concentration per Run 2	1,598.783 ppm	8.857 ppm	280.955 ppm
Concentration per Run 3	1,590.900 ppm	8.941 ppm	280.973 ppm
Concentration RSD	0.3 %	0.9 %	1.0 %
Concentration SD	5.0 ppm	0.1 ppm	2.9 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	88.6724 %	114.7826 %	101.2508 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	88.110 %	114.631 %	101.342 %
Concentration per Run 2	89.031 %	114.593 %	101.315 %
Concentration per Run 3	88.876 %	115.123 %	101.096 %
Concentration RSD	0.6 %	0.3 %	0.1 %
Concentration SD	0.5 %	0.3 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	99.4020 %	38.4330 ppm
Concentration per Run 1	98.748 %	37.327 ppm
Concentration per Run 2	99.768 %	37.755 ppm
Concentration per Run 3	99.690 %	40.217 ppm
Concentration RSD	0.6 %	4.1 %
Concentration SD	0.6 %	1.6 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	22 cps	7,690 cps	187 cps	3,318 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	2,718 cps	2 cps	-19 cps	239 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	661 cps	47,534 cps	3,797 cps	95,712 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	4,193 cps	1,338 cps	23,351 cps	12,535 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1,633 cps	8,110 cps	1,727 cps	83 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	9 cps	59 cps	389 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	127,903 cps	94 cps	1,935 cps	118 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	18 cps	5,922 cps	40,221 cps	102 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	734 cps	4,459 cps	8,300 cps	171,898 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,580 cps	127 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	5.7727 ppm	128.9527 ppm	2.4501 ppm
Concentration per Run 1	5.855 ppm	129.126 ppm	2.459 ppm
Concentration per Run 2	5.855 ppm	129.076 ppm	2.462 ppm
Concentration per Run 3	5.609 ppm	128.657 ppm	2.429 ppm
Concentration RSD	2.5 %	0.2 %	0.7 %
Concentration SD	0.1 ppm	0.3 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	55.2512 ppm	795.5453 ppm	1.0122 ppm
Concentration per Run 1	55.259 ppm	797.724 ppm	1.082 ppm
Concentration per Run 2	55.165 ppm	794.678 ppm	1.149 ppm
Concentration per Run 3	55.330 ppm	794.234 ppm	0.806 ppm
Concentration RSD	0.1 %	0.2 %	18.0 %
Concentration SD	0.1 ppm	1.9 ppm	0.2 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	-0.0057 ppm	65.5765 ppm	46.9412 ppm
Concentration per Run 1	0.001 ppm	65.697 ppm	47.113 ppm
Concentration per Run 2	0.035 ppm	65.352 ppm	47.057 ppm
Concentration per Run 3	-0.053 ppm	65.680 ppm	46.653 ppm
Concentration RSD	769.2 %	0.3 %	0.5 %
Concentration SD	0.0 ppm	0.2 ppm	0.3 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	957.2059 ppm	7,408.7859 ppm	20,282.1882 ppm
Concentration per Run 1	960.849 ppm	7,423.685 ppm	20,244.078 ppm
Concentration per Run 2	954.660 ppm	7,420.903 ppm	20,262.915 ppm
Concentration per Run 3	956.109 ppm	7,381.770 ppm	20,339.572 ppm
Concentration RSD	0.3 %	0.3 %	0.2 %
Concentration SD	3.2 ppm	23.4 ppm	50.6 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	22,340.5024 ppm	15.8230 ppm	6,397.7105 ppm
Concentration per Run 1	22,327.686 ppm	16.006 ppm	6,386.518 ppm
Concentration per Run 2	22,378.383 ppm	15.786 ppm	6,389.593 ppm
Concentration per Run 3	22,315.438 ppm	15.677 ppm	6,417.021 ppm
Concentration RSD	0.1 %	1.1 %	0.3 %
Concentration SD	33.4 ppm	0.2 ppm	16.8 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	6,932.7175 ppm	4,951.3216 ppm	2,081.2324 ppm
Concentration per Run 1	6,916.240 ppm	4,949.989 ppm	2,073.611 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	6,926.968 ppm	4,941.456 ppm	2,080.744 ppm
Concentration per Run 3	6,954.945 ppm	4,962.520 ppm	2,089.342 ppm
Concentration RSD	0.3 %	0.2 %	0.4 %
Concentration SD	20.0 ppm	10.6 ppm	7.9 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	118.3256 ppm	168.8771 ppm	2.0556 ppm
Concentration per Run 1	118.852 ppm	169.113 ppm	2.069 ppm
Concentration per Run 2	117.867 ppm	165.092 ppm	1.994 ppm
Concentration per Run 3	118.258 ppm	172.426 ppm	2.104 ppm
Concentration RSD	0.4 %	2.2 %	2.7 %
Concentration SD	0.5 ppm	3.7 ppm	0.1 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.3795 ppm	9.0938 ppm	-0.0784 ppm
Concentration per Run 1	0.384 ppm	9.121 ppm	-0.038 ppm
Concentration per Run 2	0.383 ppm	9.101 ppm	-0.139 ppm
Concentration per Run 3	0.371 ppm	9.059 ppm	-0.059 ppm
Concentration RSD	1.9 %	0.3 %	68.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	270.2612 ppm	25.8056 ppm	173.0516 ppm
Concentration per Run 1	270.059 ppm	25.888 ppm	173.420 ppm
Concentration per Run 2	269.992 ppm	25.848 ppm	173.089 ppm
Concentration per Run 3	270.733 ppm	25.682 ppm	172.645 ppm
Concentration RSD	0.2 %	0.4 %	0.2 %
Concentration SD	0.4 ppm	0.1 ppm	0.4 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	4.4676 ppm	6.5362 ppm	33.5129 ppm
Concentration per Run 1	4.461 ppm	5.987 ppm	33.474 ppm
Concentration per Run 2	4.476 ppm	7.209 ppm	33.461 ppm
Concentration per Run 3	4.466 ppm	6.412 ppm	33.604 ppm
Concentration RSD	0.2 %	9.5 %	0.2 %
Concentration SD	0.0 ppm	0.6 ppm	0.1 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	2,115.1527 ppm	6.1064 ppm	390.4887 ppm
Concentration per Run 1	2,112.253 ppm	6.077 ppm	390.775 ppm
Concentration per Run 2	2,113.666 ppm	6.117 ppm	391.230 ppm
Concentration per Run 3	2,119.539 ppm	6.126 ppm	389.461 ppm
Concentration RSD	0.2 %	0.4 %	0.2 %
Concentration SD	3.9 ppm	0.0 ppm	0.9 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	86.2919 %	114.8110 %	100.3425 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	86.403 %	114.969 %	100.518 %
Concentration per Run 2	86.186 %	114.949 %	100.206 %
Concentration per Run 3	86.286 %	114.515 %	100.303 %
Concentration RSD	0.1 %	0.2 %	0.2 %
Concentration SD	0.1 %	0.3 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	98.5877 %	41.1365 ppm
Concentration per Run 1	98.807 %	39.195 ppm
Concentration per Run 2	98.349 %	42.946 ppm
Concentration per Run 3	98.607 %	41.268 ppm
Concentration RSD	0.2 %	4.6 %
Concentration SD	0.2 %	1.9 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	29 cps	9,883 cps	221 cps	5,346 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	6,041 cps	3 cps	-19 cps	360 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	916 cps	54,386 cps	5,288 cps	120,974 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	5,331 cps	1,982 cps	32,881 cps	17,682 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2,447 cps	11,377 cps	1,811 cps	87 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	12 cps	79 cps	483 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	157,963 cps	130 cps	2,725 cps	191 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	23 cps	7,868 cps	54,983 cps	72 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,045 cps	4,340 cps	8,302 cps	170,356 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,436 cps	139 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	5.7464 ppm	135.9433 ppm	2.4549 ppm
Concentration per Run 1	5.939 ppm	136.244 ppm	2.463 ppm
Concentration per Run 2	5.722 ppm	136.181 ppm	2.422 ppm
Concentration per Run 3	5.578 ppm	135.405 ppm	2.480 ppm
Concentration RSD	3.2 %	0.3 %	1.2 %
Concentration SD	0.2 ppm	0.5 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	58.0164 ppm	794.8584 ppm	2.1556 ppm
Concentration per Run 1	58.062 ppm	795.872 ppm	2.068 ppm
Concentration per Run 2	58.025 ppm	795.339 ppm	1.513 ppm
Concentration per Run 3	57.962 ppm	793.364 ppm	2.886 ppm
Concentration RSD	0.1 %	0.2 %	32.0 %
Concentration SD	0.1 ppm	1.3 ppm	0.7 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.1267 ppm	69.6489 ppm	44.8642 ppm
Concentration per Run 1	0.002 ppm	70.127 ppm	44.575 ppm
Concentration per Run 2	0.579 ppm	67.180 ppm	45.061 ppm
Concentration per Run 3	-0.201 ppm	71.639 ppm	44.956 ppm
Concentration RSD	319.5 %	3.3 %	0.6 %
Concentration SD	0.4 ppm	2.3 ppm	0.3 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1,012.6860 ppm	7,629.3371 ppm	21,749.8492 ppm
Concentration per Run 1	1,014.870 ppm	7,621.033 ppm	21,779.514 ppm
Concentration per Run 2	1,013.593 ppm	7,636.977 ppm	21,734.315 ppm
Concentration per Run 3	1,009.595 ppm	7,630.001 ppm	21,735.719 ppm
Concentration RSD	0.3 %	0.1 %	0.1 %
Concentration SD	2.8 ppm	8.0 ppm	25.7 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	23,274.4477 ppm	16.0252 ppm	6,715.5831 ppm
Concentration per Run 1	23,263.466 ppm	16.202 ppm	6,736.833 ppm
Concentration per Run 2	23,285.888 ppm	16.331 ppm	6,736.386 ppm
Concentration per Run 3	23,273.990 ppm	15.543 ppm	6,673.531 ppm
Concentration RSD	0.0 %	2.6 %	0.5 %
Concentration SD	11.2 ppm	0.4 ppm	36.4 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	7,224.8594 ppm	5,163.6960 ppm	2,160.7182 ppm
Concentration per Run 1	7,211.471 ppm	5,132.245 ppm	2,147.880 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	7,224.333 ppm	5,170.976 ppm	2,173.983 ppm
Concentration per Run 3	7,238.774 ppm	5,187.866 ppm	2,160.291 ppm
Concentration RSD	0.2 %	0.6 %	0.6 %
Concentration SD	13.7 ppm	28.5 ppm	13.1 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	115.5981 ppm	200.4289 ppm	1.0942 ppm
Concentration per Run 1	115.359 ppm	204.322 ppm	1.031 ppm
Concentration per Run 2	117.298 ppm	214.767 ppm	0.535 ppm
Concentration per Run 3	114.137 ppm	182.198 ppm	1.717 ppm
Concentration RSD	1.4 %	8.3 %	54.3 %
Concentration SD	1.6 ppm	16.6 ppm	0.6 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.4104 ppm	8.6491 ppm	0.3440 ppm
Concentration per Run 1	0.442 ppm	8.654 ppm	0.333 ppm
Concentration per Run 2	0.371 ppm	8.580 ppm	0.574 ppm
Concentration per Run 3	0.418 ppm	8.714 ppm	0.125 ppm
Concentration RSD	8.7 %	0.8 %	65.3 %
Concentration SD	0.0 ppm	0.1 ppm	0.2 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	282.9215 ppm	25.9276 ppm	185.8823 ppm
Concentration per Run 1	283.387 ppm	26.450 ppm	187.120 ppm
Concentration per Run 2	282.772 ppm	25.204 ppm	185.150 ppm
Concentration per Run 3	282.606 ppm	26.129 ppm	185.378 ppm
Concentration RSD	0.1 %	2.5 %	0.6 %
Concentration SD	0.4 ppm	0.6 ppm	1.1 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	4.5215 ppm	7.3474 ppm	34.2319 ppm
Concentration per Run 1	4.485 ppm	10.446 ppm	34.342 ppm
Concentration per Run 2	4.555 ppm	8.402 ppm	34.053 ppm
Concentration per Run 3	4.524 ppm	3.194 ppm	34.301 ppm
Concentration RSD	0.8 %	50.9 %	0.5 %
Concentration SD	0.0 ppm	3.7 ppm	0.2 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	2,455.3098 ppm	6.1447 ppm	384.0822 ppm
Concentration per Run 1	2,461.784 ppm	6.004 ppm	383.991 ppm
Concentration per Run 2	2,450.480 ppm	6.418 ppm	386.758 ppm
Concentration per Run 3	2,453.666 ppm	6.013 ppm	381.497 ppm
Concentration RSD	0.2 %	3.8 %	0.7 %
Concentration SD	5.8 ppm	0.2 ppm	2.6 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	97.6500 %	112.5310 %	103.0973 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	97.551 %	112.358 %	103.232 %
Concentration per Run 2	97.716 %	112.056 %	102.832 %
Concentration per Run 3	97.683 %	113.179 %	103.228 %
Concentration RSD	0.1 %	0.5 %	0.2 %
Concentration SD	0.1 %	0.6 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.5799 %	42.8162 ppm
Concentration per Run 1	101.434 %	36.167 ppm
Concentration per Run 2	101.669 %	54.959 ppm
Concentration per Run 3	101.637 %	37.322 ppm
Concentration RSD	0.1 %	24.6 %
Concentration SD	0.1 %	10.5 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	4 cps	2,150 cps	47 cps	1,156 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1,364 cps	1 cps	-16 cps	83 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	195 cps	11,858 cps	1,078 cps	25,431 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1,090 cps	401 cps	6,819 cps	3,632 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	501 cps	2,398 cps	306 cps	-53 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	13 cps	102 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	33,995 cps	25 cps	573 cps	43 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	6 cps	1,552 cps	13,147 cps	17 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	211 cps	4,911 cps	8,137 cps	175,032 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,965 cps	45 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.0213 ppm	0.3377 ppm	0.0099 ppm
Concentration per Run 1	0.068 ppm	0.336 ppm	-0.003 ppm
Concentration per Run 2	-0.137 ppm	0.328 ppm	0.015 ppm
Concentration per Run 3	0.133 ppm	0.349 ppm	0.018 ppm
Concentration RSD	663.6 %	3.2 %	114.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0018 ppm	0.0936 ppm	0.7182 ppm
Concentration per Run 1	0.011 ppm	0.190 ppm	0.985 ppm
Concentration per Run 2	-0.006 ppm	0.139 ppm	0.612 ppm
Concentration per Run 3	0.001 ppm	-0.048 ppm	0.558 ppm
Concentration RSD	497.0 %	133.8 %	32.4 %
Concentration SD	0.0 ppm	0.1 ppm	0.2 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0637 ppm	1.6558 ppm	0.1598 ppm
Concentration per Run 1	0.178 ppm	1.350 ppm	0.125 ppm
Concentration per Run 2	-0.008 ppm	1.259 ppm	0.211 ppm
Concentration per Run 3	0.021 ppm	2.358 ppm	0.144 ppm
Concentration RSD	156.9 %	36.8 %	28.2 %
Concentration SD	0.1 ppm	0.6 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	3.5383 ppm	4.7813 ppm	8.4588 ppm
Concentration per Run 1	3.533 ppm	6.315 ppm	8.450 ppm
Concentration per Run 2	3.563 ppm	0.855 ppm	8.484 ppm
Concentration per Run 3	3.519 ppm	7.174 ppm	8.443 ppm
Concentration RSD	0.6 %	71.7 %	0.3 %
Concentration SD	0.0 ppm	3.4 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	6.9787 ppm	0.0872 ppm	131.2159 ppm
Concentration per Run 1	-1.453 ppm	-0.028 ppm	130.029 ppm
Concentration per Run 2	7.290 ppm	0.134 ppm	131.834 ppm
Concentration per Run 3	15.099 ppm	0.156 ppm	131.785 ppm
Concentration RSD	118.7 %	114.7 %	0.8 %
Concentration SD	8.3 ppm	0.1 ppm	1.0 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	136.1207 ppm	201.7143 ppm	12,959.4479 ppm
Concentration per Run 1	133.460 ppm	199.126 ppm	12,994.317 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	136.098 ppm	200.628 ppm	12,987.916 ppm
Concentration per Run 3	138.805 ppm	205.390 ppm	12,896.111 ppm
Concentration RSD	2.0 %	1.6 %	0.4 %
Concentration SD	2.7 ppm	3.3 ppm	54.9 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	8,412.5985 ppm	8,893.2222 ppm	-0.0889 ppm
Concentration per Run 1	8,421.618 ppm	8,867.224 ppm	-0.263 ppm
Concentration per Run 2	8,431.938 ppm	8,906.102 ppm	-0.040 ppm
Concentration per Run 3	8,384.240 ppm	8,906.340 ppm	0.037 ppm
Concentration RSD	0.3 %	0.3 %	175.1 %
Concentration SD	25.1 ppm	22.5 ppm	0.2 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0020 ppm	0.0009 ppm	0.1193 ppm
Concentration per Run 1	0.001 ppm	0.036 ppm	-0.113 ppm
Concentration per Run 2	0.003 ppm	0.002 ppm	0.211 ppm
Concentration per Run 3	0.003 ppm	-0.035 ppm	0.260 ppm
Concentration RSD	62.3 %	3,884.2 %	170.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.2 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.1814 ppm	0.1119 ppm	0.2851 ppm
Concentration per Run 1	0.180 ppm	-0.029 ppm	0.076 ppm
Concentration per Run 2	0.183 ppm	-0.010 ppm	0.328 ppm
Concentration per Run 3	0.181 ppm	0.375 ppm	0.452 ppm
Concentration RSD	1.0 %	203.5 %	67.3 %
Concentration SD	0.0 ppm	0.2 ppm	0.2 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	-0.0211 ppm	0.5961 ppm	2.0495 ppm
Concentration per Run 1	-0.014 ppm	1.206 ppm	2.071 ppm
Concentration per Run 2	-0.029 ppm	-0.486 ppm	2.047 ppm
Concentration per Run 3	-0.021 ppm	1.069 ppm	2.031 ppm
Concentration RSD	35.3 %	157.7 %	1.0 %
Concentration SD	0.0 ppm	0.9 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	60.1320 ppm	-0.1274 ppm	20,456.6359 ppm
Concentration per Run 1	59.525 ppm	-0.146 ppm	20,543.987 ppm
Concentration per Run 2	60.279 ppm	-0.054 ppm	20,496.743 ppm
Concentration per Run 3	60.592 ppm	-0.182 ppm	20,329.177 ppm
Concentration RSD	0.9 %	51.6 %	0.6 %
Concentration SD	0.5 ppm	0.1 ppm	112.9 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	90.6490 %	109.4028 %	98.0449 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	90.455 %	109.946 %	97.905 %
Concentration per Run 2	90.858 %	108.930 %	98.173 %
Concentration per Run 3	90.634 %	109.333 %	98.057 %
Concentration RSD	0.2 %	0.5 %	0.1 %
Concentration SD	0.2 %	0.5 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	97.6012 %	-2.2432 ppm
Concentration per Run 1	97.373 %	-3.749 ppm
Concentration per Run 2	97.882 %	0.282 ppm
Concentration per Run 3	97.548 %	-3.262 ppm
Concentration RSD	0.3 %	98.1 %
Concentration SD	0.3 %	2.2 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	25 cps	2 cps	2 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	2 cps	-13 cps	17 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-1 cps	170 cps	16 cps	42 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	3 cps	18 cps	610 cps	305 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	81 cps	56,878 cps	107,122 cps	7,831 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-4 cps	-2 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	105 cps	0 cps	3 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	362 cps	1,335 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	46,050 cps	4,559 cps	7,911 cps	166,455 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,261 cps	15 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	-0.0969 ppm	1.4077 ppm	0.0209 ppm
Concentration per Run 1	-0.282 ppm	1.385 ppm	0.034 ppm
Concentration per Run 2	0.112 ppm	1.431 ppm	0.019 ppm
Concentration per Run 3	-0.121 ppm	1.407 ppm	0.010 ppm
Concentration RSD	204.9 %	1.6 %	59.0 %
Concentration SD	0.2 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0379 ppm	0.1888 ppm	0.3679 ppm
Concentration per Run 1	-0.022 ppm	0.074 ppm	0.550 ppm
Concentration per Run 2	0.046 ppm	0.235 ppm	0.022 ppm
Concentration per Run 3	0.091 ppm	0.257 ppm	0.532 ppm
Concentration RSD	150.0 %	53.0 %	81.4 %
Concentration SD	0.1 ppm	0.1 ppm	0.3 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.1023 ppm	2.1511 ppm	0.3784 ppm
Concentration per Run 1	0.167 ppm	1.729 ppm	0.434 ppm
Concentration per Run 2	0.090 ppm	2.300 ppm	0.420 ppm
Concentration per Run 3	0.050 ppm	2.424 ppm	0.281 ppm
Concentration RSD	58.3 %	17.2 %	22.4 %
Concentration SD	0.1 ppm	0.4 ppm	0.1 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	3.8326 ppm	-1.5029 ppm	6.5814 ppm
Concentration per Run 1	3.833 ppm	0.131 ppm	6.463 ppm
Concentration per Run 2	3.866 ppm	-6.302 ppm	6.456 ppm
Concentration per Run 3	3.799 ppm	1.663 ppm	6.826 ppm
Concentration RSD	0.9 %	281.2 %	3.2 %
Concentration SD	0.0 ppm	4.2 ppm	0.2 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	8.1722 ppm	0.2643 ppm	1,889.2116 ppm
Concentration per Run 1	13.966 ppm	0.344 ppm	1,891.466 ppm
Concentration per Run 2	7.374 ppm	0.083 ppm	1,894.046 ppm
Concentration per Run 3	3.176 ppm	0.366 ppm	1,882.123 ppm
Concentration RSD	66.6 %	59.6 %	0.3 %
Concentration SD	5.4 ppm	0.2 ppm	6.3 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	2,027.9296 ppm	218.0795 ppm	11,953.9406 ppm
Concentration per Run 1	2,023.897 ppm	220.220 ppm	11,997.499 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	2,033.679 ppm	218.014 ppm	11,945.862 ppm
Concentration per Run 3	2,026.212 ppm	216.005 ppm	11,918.460 ppm
Concentration RSD	0.3 %	1.0 %	0.3 %
Concentration SD	5.1 ppm	2.1 ppm	40.1 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	8,791.8088 ppm	9,334.1078 ppm	-0.1344 ppm
Concentration per Run 1	8,813.167 ppm	9,356.269 ppm	-0.416 ppm
Concentration per Run 2	8,789.944 ppm	9,274.704 ppm	-0.021 ppm
Concentration per Run 3	8,772.315 ppm	9,371.351 ppm	0.034 ppm
Concentration RSD	0.2 %	0.6 %	182.4 %
Concentration SD	20.5 ppm	52.0 ppm	0.2 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0077 ppm	0.0300 ppm	0.1455 ppm
Concentration per Run 1	0.014 ppm	0.036 ppm	0.188 ppm
Concentration per Run 2	-0.004 ppm	0.010 ppm	0.201 ppm
Concentration per Run 3	0.013 ppm	0.044 ppm	0.047 ppm
Concentration RSD	129.4 %	59.9 %	58.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.7221 ppm	-0.0285 ppm	0.3788 ppm
Concentration per Run 1	0.713 ppm	0.210 ppm	0.190 ppm
Concentration per Run 2	0.727 ppm	-0.111 ppm	0.454 ppm
Concentration per Run 3	0.726 ppm	-0.185 ppm	0.492 ppm
Concentration RSD	1.1 %	736.8 %	43.4 %
Concentration SD	0.0 ppm	0.2 ppm	0.2 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0254 ppm	0.4351 ppm	1.7083 ppm
Concentration per Run 1	0.012 ppm	1.233 ppm	1.691 ppm
Concentration per Run 2	0.037 ppm	0.145 ppm	1.709 ppm
Concentration per Run 3	0.027 ppm	-0.073 ppm	1.724 ppm
Concentration RSD	51.0 %	160.9 %	1.0 %
Concentration SD	0.0 ppm	0.7 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	48.4897 ppm	-0.1104 ppm	19,604.3216 ppm
Concentration per Run 1	47.892 ppm	-0.129 ppm	19,433.129 ppm
Concentration per Run 2	49.013 ppm	-0.141 ppm	19,768.603 ppm
Concentration per Run 3	48.564 ppm	-0.060 ppm	19,611.232 ppm
Concentration RSD	1.2 %	39.7 %	0.9 %
Concentration SD	0.6 ppm	0.0 ppm	167.8 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	90.4908 %	109.9493 %	97.3569 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	91.185 %	109.464 %	97.281 %
Concentration per Run 2	89.953 %	109.391 %	97.607 %
Concentration per Run 3	90.334 %	110.993 %	97.182 %
Concentration RSD	0.7 %	0.8 %	0.2 %
Concentration SD	0.6 %	0.9 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	97.7914 %	-2.1832 ppm
Concentration per Run 1	98.490 %	-5.198 ppm
Concentration per Run 2	97.124 %	-3.883 ppm
Concentration per Run 3	97.761 %	2.532 ppm
Concentration RSD	0.7 %	189.4 %
Concentration SD	0.7 %	4.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	94 cps	3 cps	5 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	1 cps	-10 cps	19 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3 cps	185 cps	12 cps	33 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	3 cps	36 cps	7,944 cps	4,224 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	88 cps	52,734 cps	112,511 cps	8,265 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	0 cps	-3 cps	0 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	365 cps	0 cps	4 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	299 cps	1,077 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	44,215 cps	4,551 cps	7,951 cps	165,287 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,295 cps	15 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0387 ppm	0.4964 ppm	0.4967 ppm	0.9692 ppm
Concentration per Run 1	2.049 ppm	0.497 ppm	0.498 ppm	0.968 ppm
Concentration per Run 2	2.035 ppm	0.496 ppm	0.497 ppm	0.972 ppm
Concentration per Run 3	2.032 ppm	0.496 ppm	0.495 ppm	0.967 ppm
Concentration RSD	0.4 %	0.1 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.4810 ppm	2.0812 ppm	0.9361 ppm	1.9243 ppm
Concentration per Run 1	0.479 ppm	2.088 ppm	0.936 ppm	1.927 ppm
Concentration per Run 2	0.484 ppm	2.082 ppm	0.941 ppm	1.924 ppm
Concentration per Run 3	0.480 ppm	2.073 ppm	0.931 ppm	1.921 ppm
Concentration RSD	0.5 %	0.4 %	0.5 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1.9714 ppm	2.9124 ppm	9.9594 ppm	9.7800 ppm
Concentration per Run 1	1.979 ppm	2.921 ppm	9.944 ppm	9.781 ppm
Concentration per Run 2	1.972 ppm	2.911 ppm	10.002 ppm	9.781 ppm
Concentration per Run 3	1.963 ppm	2.906 ppm	9.933 ppm	9.778 ppm
Concentration RSD	0.4 %	0.3 %	0.4 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.3078 ppm	1.4010 ppm	47.3044 ppm	50.5348 ppm
Concentration per Run 1	10.297 ppm	1.401 ppm	47.344 ppm	50.531 ppm
Concentration per Run 2	10.259 ppm	1.404 ppm	47.298 ppm	50.484 ppm
Concentration per Run 3	10.368 ppm	1.398 ppm	47.271 ppm	50.590 ppm
Concentration RSD	0.5 %	0.2 %	0.1 %	0.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	9.4467 ppm	50.8933 ppm	46.9153 ppm	49.3319 ppm
Concentration per Run 1	9.467 ppm	50.857 ppm	46.923 ppm	49.420 ppm
Concentration per Run 2	9.444 ppm	50.969 ppm	46.956 ppm	49.360 ppm
Concentration per Run 3	9.429 ppm	50.854 ppm	46.866 ppm	49.216 ppm
Concentration RSD	0.2 %	0.1 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.9911 ppm	0.2012 ppm	0.9760 ppm	1.8567 ppm
Concentration per Run 1	2.001 ppm	0.201 ppm	0.980 ppm	1.863 ppm
Concentration per Run 2	1.989 ppm	0.201 ppm	0.975 ppm	1.858 ppm
Concentration per Run 3	1.984 ppm	0.201 ppm	0.972 ppm	1.849 ppm
Concentration RSD	0.5 %	0.1 %	0.4 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9724 ppm	0.9682 ppm	0.9924 ppm	0.5028 ppm
Concentration per Run 1	0.971 ppm	0.969 ppm	0.993 ppm	0.504 ppm
Concentration per Run 2	0.977 ppm	0.967 ppm	0.993 ppm	0.503 ppm
Concentration per Run 3	0.970 ppm	0.968 ppm	0.991 ppm	0.501 ppm
Concentration RSD	0.4 %	0.1 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.8967 ppm	0.9555 ppm	1.8915 ppm	1.8873 ppm
Concentration per Run 1	1.902 ppm	0.956 ppm	1.889 ppm	1.892 ppm
Concentration per Run 2	1.901 ppm	0.956 ppm	1.895 ppm	1.888 ppm
Concentration per Run 3	1.887 ppm	0.954 ppm	1.891 ppm	1.881 ppm
Concentration RSD	0.5 %	0.2 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	5.4418 ppm	90.2903 %	107.4236 %	96.8446 %
Concentration per Run 1	5.456 ppm	90.309 %	107.931 %	97.017 %
Concentration per Run 2	5.434 ppm	90.307 %	107.266 %	96.523 %
Concentration per Run 3	5.435 ppm	90.254 %	107.075 %	96.994 %
Concentration RSD	0.2 %	0.0 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.0 %	0.4 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	96.8900 %	0.0456 ppm
Concentration per Run 1	97.065 %	0.068 ppm
Concentration per Run 2	96.874 %	-0.012 ppm
Concentration per Run 3	96.731 %	0.080 ppm
Concentration RSD	0.2 %	109.8 %
Concentration SD	0.2 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,046 cps	3,530 cps	4,124 cps	8,537 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	359 cps	770 cps	8,093 cps	916 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,809 cps	15,343 cps	639 cps	5,150 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	218 cps	15,427 cps	21,480 cps	11,385 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	412 cps	24,426 cps	65,158 cps	4,704 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,012 cps	3,885 cps	5,132 cps	899 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	51,760 cps	431 cps	1,379 cps	1,966 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	540 cps	19,848 cps	4,512 cps	2,015 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,351 cps	4,541 cps	7,768 cps	164,417 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,135 cps	33 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0019 ppm	0.0000 ppm	0.0000 ppm	0.0001 ppm
Concentration per Run 1	-0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	-0.002 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	-0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	19.2 %	136.4 %	297.0 %	520.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0007 ppm	0.0048 ppm	0.0009 ppm	0.0041 ppm
Concentration per Run 1	0.000 ppm	0.006 ppm	0.001 ppm	0.010 ppm
Concentration per Run 2	0.001 ppm	0.002 ppm	0.001 ppm	0.003 ppm
Concentration per Run 3	0.001 ppm	0.006 ppm	0.001 ppm	0.000 ppm
Concentration RSD	113.1 %	43.7 %	22.9 %	131.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0008 ppm	0.0001 ppm	-0.0320 ppm	0.0013 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	-0.034 ppm	-0.001 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.013 ppm	0.003 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	-0.049 ppm	0.001 ppm
Concentration RSD	59.1 %	68.4 %	55.1 %	142.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0321 ppm	-0.0004 ppm	0.0079 ppm	-0.0234 ppm
Concentration per Run 1	-0.055 ppm	-0.001 ppm	0.006 ppm	-0.015 ppm
Concentration per Run 2	-0.020 ppm	-0.001 ppm	0.007 ppm	-0.024 ppm
Concentration per Run 3	-0.021 ppm	0.001 ppm	0.011 ppm	-0.031 ppm
Concentration RSD	62.7 %	296.5 %	32.8 %	34.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0055 ppm	0.0480 ppm	0.0205 ppm	0.0659 ppm
Concentration per Run 1	0.001 ppm	0.055 ppm	0.022 ppm	0.149 ppm
Concentration per Run 2	0.036 ppm	0.051 ppm	0.025 ppm	0.008 ppm
Concentration per Run 3	-0.020 ppm	0.037 ppm	0.015 ppm	0.040 ppm
Concentration RSD	508.3 %	20.1 %	26.3 %	112.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0051 ppm	0.0001 ppm	-0.0001 ppm	0.0010 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.005 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.006 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	9.0 %	75.3 %	253.0 %	28.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0000 ppm	-0.0012 ppm	0.0013 ppm	0.0003 ppm
Concentration per Run 1	0.000 ppm	-0.002 ppm	0.003 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.003 ppm	0.002 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.002 ppm	-0.001 ppm	0.001 ppm
Concentration RSD	1,877.2 %	198.5 %	142.3 %	48.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0082 ppm	0.0001 ppm	0.0023 ppm	0.0000 ppm
Concentration per Run 1	0.007 ppm	0.000 ppm	0.002 ppm	0.000 ppm
Concentration per Run 2	0.017 ppm	0.000 ppm	0.003 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.003 ppm	0.000 ppm
Concentration RSD	103.5 %	427.5 %	22.0 %	1,240.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0163 ppm	103.9412 %	109.4470 %	104.8318 %
Concentration per Run 1	0.015 ppm	104.268 %	109.107 %	105.103 %
Concentration per Run 2	0.016 ppm	103.867 %	109.938 %	104.626 %
Concentration per Run 3	0.018 ppm	103.689 %	109.296 %	104.766 %
Concentration RSD	7.1 %	0.3 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	0.3 %	0.4 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.9857 %	-0.0430 ppm
Concentration per Run 1	102.362 %	-0.020 ppm
Concentration per Run 2	101.803 %	-0.048 ppm
Concentration per Run 3	101.792 %	-0.060 ppm
Concentration RSD	0.3 %	47.7 %
Concentration SD	0.3 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	3 cps	2 cps	3 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-10 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-2 cps	2 cps	11 cps	2 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	4 cps	69 cps	19 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	125 cps	-21 cps	-87 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	-3 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	19 cps	-1 cps	1 cps	5 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	4 cps	-27 cps	48 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	4 cps	5,227 cps	7,914 cps	177,977 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	18,036 cps	9 cps

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QTEGRA

L794557-07 WG822491

Sample Type UNKNOWN Analysis Date 10/19/2015 10:56:31 AM

Dilution Factor 100

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	-0.1277 ppm	1.9801 ppm	0.0033 ppm
Concentration per Run 1	-0.221 ppm	2.012 ppm	0.022 ppm
Concentration per Run 2	-0.103 ppm	1.978 ppm	-0.004 ppm
Concentration per Run 3	-0.059 ppm	1.950 ppm	-0.008 ppm
Concentration RSD	65.6 %	1.6 %	486.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1539 ppm	0.0334 ppm	0.8682 ppm
Concentration per Run 1	0.191 ppm	0.040 ppm	0.825 ppm
Concentration per Run 2	0.234 ppm	0.192 ppm	0.839 ppm
Concentration per Run 3	0.037 ppm	-0.131 ppm	0.940 ppm
Concentration RSD	67.4 %	483.3 %	7.2 %
Concentration SD	0.1 ppm	0.2 ppm	0.1 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0274 ppm	1.8694 ppm	0.3430 ppm
Concentration per Run 1	-0.002 ppm	1.385 ppm	0.355 ppm
Concentration per Run 2	0.038 ppm	1.588 ppm	0.346 ppm
Concentration per Run 3	0.047 ppm	2.635 ppm	0.327 ppm
Concentration RSD	95.6 %	35.9 %	4.2 %
Concentration SD	0.0 ppm	0.7 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	4.0994 ppm	21.9747 ppm	43.1309 ppm
Concentration per Run 1	4.170 ppm	20.805 ppm	43.525 ppm
Concentration per Run 2	4.102 ppm	24.899 ppm	43.743 ppm
Concentration per Run 3	4.026 ppm	20.220 ppm	42.125 ppm
Concentration RSD	1.8 %	11.6 %	2.0 %
Concentration SD	0.1 ppm	2.5 ppm	0.9 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	35.9525 ppm	0.1408 ppm	510.1120 ppm
Concentration per Run 1	31.508 ppm	0.433 ppm	511.173 ppm
Concentration per Run 2	38.354 ppm	-0.050 ppm	512.147 ppm
Concentration per Run 3	37.995 ppm	0.039 ppm	507.016 ppm
Concentration RSD	10.7 %	182.7 %	0.5 %
Concentration SD	3.9 ppm	0.3 ppm	2.7 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	539.1810 ppm	219.1688 ppm	11,704.5878 ppm
Concentration per Run 1	542.382 ppm	218.948 ppm	11,751.731 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	537.091 ppm	221.650 ppm	11,684.421 ppm
Concentration per Run 3	538.070 ppm	216.908 ppm	11,677.611 ppm
Concentration RSD	0.5 %	1.1 %	0.4 %
Concentration SD	2.8 ppm	2.4 ppm	41.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	8,509.1524 ppm	9,052.4467 ppm	0.1104 ppm
Concentration per Run 1	8,524.679 ppm	9,085.266 ppm	0.046 ppm
Concentration per Run 2	8,495.880 ppm	9,023.661 ppm	0.124 ppm
Concentration per Run 3	8,506.898 ppm	9,048.413 ppm	0.161 ppm
Concentration RSD	0.2 %	0.3 %	53.2 %
Concentration SD	14.5 ppm	31.0 ppm	0.1 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0077 ppm	0.0394 ppm	0.0478 ppm
Concentration per Run 1	0.016 ppm	0.037 ppm	0.120 ppm
Concentration per Run 2	0.007 ppm	0.030 ppm	-0.040 ppm
Concentration per Run 3	0.001 ppm	0.051 ppm	0.063 ppm
Concentration RSD	97.2 %	26.9 %	169.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	3.4066 ppm	0.2717 ppm	0.3614 ppm
Concentration per Run 1	3.420 ppm	0.528 ppm	0.450 ppm
Concentration per Run 2	3.431 ppm	0.154 ppm	0.464 ppm
Concentration per Run 3	3.368 ppm	0.134 ppm	0.169 ppm
Concentration RSD	1.0 %	81.7 %	46.0 %
Concentration SD	0.0 ppm	0.2 ppm	0.2 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	-0.0079 ppm	0.8777 ppm	0.5665 ppm
Concentration per Run 1	0.012 ppm	0.630 ppm	0.560 ppm
Concentration per Run 2	-0.026 ppm	1.225 ppm	0.575 ppm
Concentration per Run 3	-0.011 ppm	0.778 ppm	0.564 ppm
Concentration RSD	243.0 %	35.3 %	1.4 %
Concentration SD	0.0 ppm	0.3 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	82.0947 ppm	0.2174 ppm	19,527.0782 ppm
Concentration per Run 1	82.497 ppm	0.236 ppm	19,809.378 ppm
Concentration per Run 2	82.215 ppm	0.147 ppm	19,448.900 ppm
Concentration per Run 3	81.573 ppm	0.269 ppm	19,322.957 ppm
Concentration RSD	0.6 %	29.1 %	1.3 %
Concentration SD	0.5 ppm	0.1 ppm	252.5 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	90.7573 %	109.4631 %	98.6493 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	89.644 %	108.776 %	98.224 %
Concentration per Run 2	91.212 %	110.097 %	98.316 %
Concentration per Run 3	91.416 %	109.516 %	99.408 %
Concentration RSD	1.1 %	0.6 %	0.7 %
Concentration SD	1.0 %	0.7 %	0.7 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	97.3438 %	0.9545 ppm
Concentration per Run 1	96.302 %	1.517 ppm
Concentration per Run 2	97.838 %	3.195 ppm
Concentration per Run 3	97.892 %	-1.849 ppm
Concentration RSD	0.9 %	269.1 %
Concentration SD	0.9 %	2.6 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	131 cps	2 cps	15 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	2 cps	-16 cps	18 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	2 cps	196 cps	26 cps	209 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	8 cps	23 cps	2,183 cps	1,136 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	88 cps	51,408 cps	108,411 cps	7,977 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	-3 cps	0 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	1,679 cps	1 cps	4 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	4 cps	80 cps	1,819 cps	4 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	43,838 cps	4,564 cps	7,916 cps	167,481 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,216 cps	23 cps

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L793812-01 WG821521

Sample Type UNKNOWN Analysis Date 10/19/2015 10:59:36 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.0009 ppm	0.0305 ppm	0.0005 ppm
Concentration per Run 1	0.000 ppm	0.030 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.031 ppm	0.000 ppm
Concentration per Run 3	0.001 ppm	0.030 ppm	0.000 ppm
Concentration RSD	76.6 %	1.0 %	8.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.1535 ppm	0.0042 ppm	0.0054 ppm
Concentration per Run 1	0.154 ppm	0.005 ppm	0.010 ppm
Concentration per Run 2	0.153 ppm	0.005 ppm	0.002 ppm
Concentration per Run 3	0.153 ppm	0.003 ppm	0.004 ppm
Concentration RSD	0.4 %	18.6 %	77.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0006 ppm	0.1334 ppm	0.0942 ppm
Concentration per Run 1	0.001 ppm	0.140 ppm	0.095 ppm
Concentration per Run 2	0.000 ppm	0.128 ppm	0.094 ppm
Concentration per Run 3	0.001 ppm	0.132 ppm	0.093 ppm
Concentration RSD	110.5 %	4.3 %	1.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0153 ppm	-0.0054 ppm	0.4523 ppm
Concentration per Run 1	0.015 ppm	-0.069 ppm	0.447 ppm
Concentration per Run 2	0.015 ppm	0.012 ppm	0.456 ppm
Concentration per Run 3	0.015 ppm	0.040 ppm	0.454 ppm
Concentration RSD	1.5 %	1,042.5 %	1.0 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.4777 ppm	0.1132 ppm	21.6893 ppm
Concentration per Run 1	0.440 ppm	0.113 ppm	21.709 ppm
Concentration per Run 2	0.547 ppm	0.112 ppm	21.737 ppm
Concentration per Run 3	0.447 ppm	0.115 ppm	21.622 ppm
Concentration RSD	12.5 %	1.4 %	0.3 %
Concentration SD	0.1 ppm	0.0 ppm	0.1 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	23.4236 ppm	10.8732 ppm	8.5356 ppm
Concentration per Run 1	23.392 ppm	10.860 ppm	8.537 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	23.417 ppm	10.855 ppm	8.521 ppm
Concentration per Run 3	23.462 ppm	10.904 ppm	8.549 ppm
Concentration RSD	0.2 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	1,117.0825 ppm	1,928.1378 ppm	0.0371 ppm
Concentration per Run 1	1,105.350 ppm	1,929.461 ppm	0.038 ppm
Concentration per Run 2	1,145.389 ppm	1,932.021 ppm	0.036 ppm
Concentration per Run 3	1,100.509 ppm	1,922.931 ppm	0.037 ppm
Concentration RSD	2.2 %	0.2 %	2.9 %
Concentration SD	24.6 ppm	4.7 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0000 ppm	-0.0001 ppm	-0.0014 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.004 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	5,555.9 %	73.5 %	184.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.0148 ppm	0.0011 ppm	0.0058 ppm
Concentration per Run 1	0.015 ppm	0.002 ppm	0.004 ppm
Concentration per Run 2	0.015 ppm	0.002 ppm	0.007 ppm
Concentration per Run 3	0.015 ppm	0.000 ppm	0.006 ppm
Concentration RSD	0.9 %	101.1 %	21.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0031 ppm	5.9159 ppm	0.3166 ppm
Concentration per Run 1	0.003 ppm	5.930 ppm	0.317 ppm
Concentration per Run 2	0.003 ppm	5.904 ppm	0.317 ppm
Concentration per Run 3	0.003 ppm	5.914 ppm	0.316 ppm
Concentration RSD	5.4 %	0.2 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	2.9016 ppm	0.0002 ppm	1,138.8137 ppm
Concentration per Run 1	2.888 ppm	-0.001 ppm	1,142.921 ppm
Concentration per Run 2	2.902 ppm	0.001 ppm	1,139.425 ppm
Concentration per Run 3	2.915 ppm	0.001 ppm	1,134.094 ppm
Concentration RSD	0.5 %	516.9 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	4.4 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	72.3944 %	106.9135 %	82.7799 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	72.716 %	107.655 %	82.845 %
Concentration per Run 2	72.377 %	106.352 %	82.921 %
Concentration per Run 3	72.090 %	106.733 %	82.574 %
Concentration RSD	0.4 %	0.6 %	0.2 %
Concentration SD	0.3 %	0.7 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	84.0169 %	-0.0104 ppm
Concentration per Run 1	84.374 %	-0.024 ppm
Concentration per Run 2	83.865 %	-0.006 ppm
Concentration per Run 3	83.812 %	-0.001 ppm
Concentration RSD	0.4 %	113.7 %
Concentration SD	0.3 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	172 cps	4 cps	1,042 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1 cps	1 cps	-11 cps	66 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	129 cps	64 cps	12 cps	214 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	10 cps	1,125 cps	8,859 cps	4,741 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	425 cps	3,754 cps	1,390,593 cps	167,815 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	16 cps	-4 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	620 cps	0 cps	6 cps	12 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	1,507 cps	5,872 cps	5,312 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	220,681 cps	3,641 cps	7,731 cps	140,539 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	14,859 cps	18 cps

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L793892-07 WG821543

Sample Type UNKNOWN Analysis Date 10/19/2015 11:02:48 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.0219 ppm	0.0089 ppm	0.0003 ppm
Concentration per Run 1	0.022 ppm	0.009 ppm	0.000 ppm
Concentration per Run 2	0.022 ppm	0.009 ppm	0.000 ppm
Concentration per Run 3	0.021 ppm	0.009 ppm	0.000 ppm
Concentration RSD	2.7 %	0.8 %	81.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0002 ppm	0.0080 ppm	0.0049 ppm
Concentration per Run 1	0.000 ppm	0.008 ppm	0.002 ppm
Concentration per Run 2	0.000 ppm	0.009 ppm	0.007 ppm
Concentration per Run 3	0.000 ppm	0.007 ppm	0.005 ppm
Concentration RSD	105.2 %	8.2 %	52.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0001 ppm	-0.0017 ppm	0.0347 ppm
Concentration per Run 1	0.000 ppm	0.004 ppm	0.035 ppm
Concentration per Run 2	0.000 ppm	-0.011 ppm	0.035 ppm
Concentration per Run 3	0.000 ppm	0.002 ppm	0.034 ppm
Concentration RSD	233.7 %	476.7 %	1.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0179 ppm	0.4333 ppm	1.1206 ppm
Concentration per Run 1	0.018 ppm	0.436 ppm	1.125 ppm
Concentration per Run 2	0.018 ppm	0.423 ppm	1.117 ppm
Concentration per Run 3	0.018 ppm	0.441 ppm	1.120 ppm
Concentration RSD	0.9 %	2.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	1.1927 ppm	0.0495 ppm	12.9220 ppm
Concentration per Run 1	1.241 ppm	0.048 ppm	12.946 ppm
Concentration per Run 2	1.263 ppm	0.051 ppm	12.887 ppm
Concentration per Run 3	1.074 ppm	0.049 ppm	12.933 ppm
Concentration RSD	8.7 %	2.8 %	0.2 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	13.7813 ppm	1.0588 ppm	74.3014 ppm
Concentration per Run 1	13.801 ppm	1.071 ppm	74.519 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	13.787 ppm	1.106 ppm	73.857 ppm
Concentration per Run 3	13.756 ppm	1.000 ppm	74.528 ppm
Concentration RSD	0.2 %	5.1 %	0.5 %
Concentration SD	0.0 ppm	0.1 ppm	0.4 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	136.3526 ppm	150.1014 ppm	-0.0019 ppm
Concentration per Run 1	137.119 ppm	149.827 ppm	-0.004 ppm
Concentration per Run 2	135.361 ppm	149.750 ppm	-0.002 ppm
Concentration per Run 3	136.577 ppm	150.727 ppm	0.000 ppm
Concentration RSD	0.7 %	0.4 %	86.5 %
Concentration SD	0.9 ppm	0.5 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0001 ppm	0.0017 ppm	0.0010 ppm
Concentration per Run 1	0.000 ppm	0.002 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.002 ppm	-0.001 ppm
Concentration per Run 3	0.000 ppm	0.002 ppm	0.004 ppm
Concentration RSD	81.4 %	8.6 %	224.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.0296 ppm	0.0013 ppm	0.0105 ppm
Concentration per Run 1	0.030 ppm	0.003 ppm	0.010 ppm
Concentration per Run 2	0.030 ppm	0.002 ppm	0.011 ppm
Concentration per Run 3	0.030 ppm	-0.001 ppm	0.011 ppm
Concentration RSD	0.1 %	174.8 %	5.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0105 ppm	0.0478 ppm	0.1098 ppm
Concentration per Run 1	0.011 ppm	0.044 ppm	0.109 ppm
Concentration per Run 2	0.010 ppm	0.050 ppm	0.110 ppm
Concentration per Run 3	0.010 ppm	0.049 ppm	0.110 ppm
Concentration RSD	0.4 %	6.1 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	15.4540 ppm	-0.0011 ppm	5.5896 ppm
Concentration per Run 1	15.461 ppm	-0.001 ppm	5.638 ppm
Concentration per Run 2	15.412 ppm	-0.001 ppm	5.584 ppm
Concentration per Run 3	15.489 ppm	-0.001 ppm	5.547 ppm
Concentration RSD	0.2 %	26.3 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	89.7185 %	112.9139 %	98.2922 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	90.036 %	112.928 %	97.873 %
Concentration per Run 2	89.599 %	113.715 %	98.766 %
Concentration per Run 3	89.521 %	112.099 %	98.237 %
Concentration RSD	0.3 %	0.7 %	0.5 %
Concentration SD	0.3 %	0.8 %	0.4 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	96.6788 %	-0.0115 ppm
Concentration per Run 1	96.850 %	-0.058 ppm
Concentration per Run 2	96.706 %	0.008 ppm
Concentration per Run 3	96.481 %	0.015 ppm
Concentration RSD	0.2 %	347.6 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	7 cps	60 cps	4 cps	4 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	3 cps	1 cps	-17 cps	10 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	56 cps	86 cps	39 cps	559 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	25 cps	525 cps	5,601 cps	2,956 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	44 cps	33,701 cps	179,226 cps	13,708 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	0 cps	-2 cps	6 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	1,455 cps	0 cps	13 cps	40 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	14 cps	2,131 cps	33,426 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,246 cps	4,512 cps	8,165 cps	166,875 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,098 cps	18 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0618 ppm	0.5001 ppm	0.4991 ppm	0.9690 ppm
Concentration per Run 1	2.072 ppm	0.500 ppm	0.499 ppm	0.966 ppm
Concentration per Run 2	2.055 ppm	0.500 ppm	0.499 ppm	0.969 ppm
Concentration per Run 3	2.058 ppm	0.500 ppm	0.499 ppm	0.972 ppm
Concentration RSD	0.4 %	0.1 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.4773 ppm	2.1058 ppm	0.9319 ppm	1.9331 ppm
Concentration per Run 1	0.477 ppm	2.113 ppm	0.930 ppm	1.935 ppm
Concentration per Run 2	0.478 ppm	2.099 ppm	0.930 ppm	1.939 ppm
Concentration per Run 3	0.477 ppm	2.106 ppm	0.935 ppm	1.925 ppm
Concentration RSD	0.1 %	0.4 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1.9719 ppm	2.9105 ppm	9.9013 ppm	9.7664 ppm
Concentration per Run 1	1.976 ppm	2.920 ppm	9.869 ppm	9.766 ppm
Concentration per Run 2	1.974 ppm	2.908 ppm	9.967 ppm	9.780 ppm
Concentration per Run 3	1.965 ppm	2.904 ppm	9.869 ppm	9.753 ppm
Concentration RSD	0.3 %	0.3 %	0.6 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.3394 ppm	1.4099 ppm	47.4696 ppm	50.6740 ppm
Concentration per Run 1	10.403 ppm	1.418 ppm	47.541 ppm	50.645 ppm
Concentration per Run 2	10.244 ppm	1.405 ppm	47.461 ppm	50.719 ppm
Concentration per Run 3	10.371 ppm	1.407 ppm	47.407 ppm	50.658 ppm
Concentration RSD	0.8 %	0.5 %	0.1 %	0.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	9.4430 ppm	51.4444 ppm	46.2675 ppm	49.6837 ppm
Concentration per Run 1	9.372 ppm	51.697 ppm	46.514 ppm	49.641 ppm
Concentration per Run 2	9.506 ppm	51.335 ppm	46.223 ppm	49.978 ppm
Concentration per Run 3	9.451 ppm	51.301 ppm	46.066 ppm	49.431 ppm
Concentration RSD	0.7 %	0.4 %	0.5 %	0.6 %
Concentration SD	0.1 ppm	0.2 ppm	0.2 ppm	0.3 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0068 ppm	0.2020 ppm	0.9769 ppm	1.8578 ppm
Concentration per Run 1	2.006 ppm	0.202 ppm	0.978 ppm	1.861 ppm
Concentration per Run 2	2.007 ppm	0.202 ppm	0.976 ppm	1.859 ppm
Concentration per Run 3	2.008 ppm	0.202 ppm	0.976 ppm	1.854 ppm
Concentration RSD	0.1 %	0.1 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9681 ppm	0.9656 ppm	0.9981 ppm	0.5055 ppm
Concentration per Run 1	0.968 ppm	0.969 ppm	0.997 ppm	0.506 ppm
Concentration per Run 2	0.967 ppm	0.963 ppm	1.004 ppm	0.504 ppm
Concentration per Run 3	0.969 ppm	0.964 ppm	0.993 ppm	0.506 ppm
Concentration RSD	0.1 %	0.3 %	0.6 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.9050 ppm	0.9626 ppm	1.8873 ppm	1.8930 ppm
Concentration per Run 1	1.915 ppm	0.968 ppm	1.882 ppm	1.894 ppm
Concentration per Run 2	1.897 ppm	0.960 ppm	1.891 ppm	1.893 ppm
Concentration per Run 3	1.903 ppm	0.960 ppm	1.888 ppm	1.892 ppm
Concentration RSD	0.5 %	0.5 %	0.2 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	5.5248 ppm	89.4967 %	107.2602 %	96.7034 %
Concentration per Run 1	5.531 ppm	89.666 %	107.467 %	96.716 %
Concentration per Run 2	5.509 ppm	89.469 %	107.122 %	96.606 %
Concentration per Run 3	5.535 ppm	89.355 %	107.192 %	96.788 %
Concentration RSD	0.3 %	0.2 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.2 %	0.2 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	95.6296 %	0.0444 ppm
Concentration per Run 1	95.948 %	0.082 ppm
Concentration per Run 2	95.607 %	0.043 ppm
Concentration per Run 3	95.334 %	0.009 ppm
Concentration RSD	0.3 %	82.3 %
Concentration SD	0.3 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,045 cps	3,509 cps	4,089 cps	8,524 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	353 cps	769 cps	8,045 cps	919 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,776 cps	15,133 cps	634 cps	5,135 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	219 cps	15,500 cps	21,522 cps	11,398 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	412 cps	24,652 cps	64,160 cps	4,731 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,006 cps	3,895 cps	5,091 cps	892 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	51,455 cps	429 cps	1,385 cps	1,951 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	542 cps	19,966 cps	4,496 cps	1,995 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,353 cps	4,501 cps	7,756 cps	164,177 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,912 cps	33 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0001 ppm	0.0000 ppm	0.0001 ppm	-0.0003 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.002 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	1,164.2 %	265.9 %	133.4 %	75.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0001 ppm	0.0052 ppm	0.0008 ppm	0.0006 ppm
Concentration per Run 1	0.000 ppm	0.002 ppm	0.001 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.007 ppm	0.001 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.006 ppm	0.001 ppm	-0.001 ppm
Concentration RSD	210.0 %	54.3 %	14.5 %	165.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0009 ppm	0.0000 ppm	-0.0126 ppm	0.0022 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	-0.029 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.018 ppm	0.003 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	-0.027 ppm	0.003 ppm
Concentration RSD	22.7 %	161.1 %	212.0 %	80.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0242 ppm	0.0000 ppm	0.0104 ppm	-0.0171 ppm
Concentration per Run 1	-0.093 ppm	-0.001 ppm	0.011 ppm	-0.019 ppm
Concentration per Run 2	-0.062 ppm	0.002 ppm	0.012 ppm	-0.017 ppm
Concentration per Run 3	0.082 ppm	0.000 ppm	0.009 ppm	-0.016 ppm
Concentration RSD	383.5 %	17,924.1 %	15.5 %	9.7 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0282 ppm	0.1736 ppm	0.3045 ppm	0.0292 ppm
Concentration per Run 1	0.017 ppm	0.143 ppm	0.317 ppm	0.089 ppm
Concentration per Run 2	-0.010 ppm	0.187 ppm	0.298 ppm	0.009 ppm
Concentration per Run 3	0.078 ppm	0.191 ppm	0.299 ppm	-0.011 ppm
Concentration RSD	158.6 %	15.2 %	3.5 %	180.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0056 ppm	0.0000 ppm	-0.0001 ppm	0.0024 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.000 ppm	0.003 ppm
Concentration per Run 2	0.006 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration per Run 3	0.006 ppm	0.000 ppm	0.000 ppm	0.003 ppm
Concentration RSD	16.7 %	502.7 %	66.9 %	11.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	-0.0001 ppm	-0.0007 ppm	0.0016 ppm	0.0004 ppm
Concentration per Run 1	0.000 ppm	0.002 ppm	0.001 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.003 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	-0.004 ppm	0.001 ppm	0.000 ppm
Concentration RSD	47.4 %	439.7 %	72.4 %	18.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0122 ppm	0.0002 ppm	0.0041 ppm	-0.0006 ppm
Concentration per Run 1	0.008 ppm	0.000 ppm	0.003 ppm	-0.001 ppm
Concentration per Run 2	0.016 ppm	0.000 ppm	0.007 ppm	0.000 ppm
Concentration per Run 3	0.012 ppm	0.000 ppm	0.003 ppm	0.000 ppm
Concentration RSD	32.3 %	69.8 %	56.7 %	117.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0407 ppm	103.7158 %	109.9596 %	104.5613 %
Concentration per Run 1	0.042 ppm	103.622 %	109.470 %	104.260 %
Concentration per Run 2	0.041 ppm	103.672 %	109.948 %	104.692 %
Concentration per Run 3	0.039 ppm	103.853 %	110.462 %	104.732 %
Concentration RSD	3.6 %	0.1 %	0.5 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	0.5 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.5340 %	0.0004 ppm
Concentration per Run 1	101.570 %	-0.006 ppm
Concentration per Run 2	101.588 %	0.013 ppm
Concentration per Run 3	101.444 %	-0.006 ppm
Concentration RSD	0.1 %	2,850.6 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	3 cps	2 cps	-1 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-11 cps	10 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-2 cps	1 cps	12 cps	2 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	9 cps	70 cps	21 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2 cps	187 cps	383 cps	-91 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	-5 cps	-3 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	14 cps	-1 cps	1 cps	5 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	5 cps	-25 cps	52 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	10 cps	5,216 cps	7,951 cps	177,518 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,957 cps	21 cps

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Dilution Factor 5

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	58.0940 ppm	196.7061 ppm	0.7238 ppm
Concentration per Run 1	57.583 ppm	196.808 ppm	0.764 ppm
Concentration per Run 2	59.348 ppm	197.023 ppm	0.696 ppm
Concentration per Run 3	57.351 ppm	196.288 ppm	0.711 ppm
Concentration RSD	1.9 %	0.2 %	4.9 %
Concentration SD	1.1 ppm	0.4 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	9.0777 ppm	23.9595 ppm	2.6835 ppm
Concentration per Run 1	9.163 ppm	23.814 ppm	2.358 ppm
Concentration per Run 2	9.023 ppm	23.826 ppm	4.408 ppm
Concentration per Run 3	9.048 ppm	24.239 ppm	1.285 ppm
Concentration RSD	0.8 %	1.0 %	59.1 %
Concentration SD	0.1 ppm	0.2 ppm	1.6 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.2599 ppm	33.1397 ppm	41.8281 ppm
Concentration per Run 1	0.458 ppm	34.732 ppm	41.736 ppm
Concentration per Run 2	-0.074 ppm	32.203 ppm	41.692 ppm
Concentration per Run 3	0.396 ppm	32.484 ppm	42.056 ppm
Concentration RSD	111.9 %	4.2 %	0.5 %
Concentration SD	0.3 ppm	1.4 ppm	0.2 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	138.5552 ppm	5,024.9679 ppm	44,503.6538 ppm
Concentration per Run 1	139.305 ppm	5,041.180 ppm	44,557.806 ppm
Concentration per Run 2	138.538 ppm	5,020.718 ppm	44,571.800 ppm
Concentration per Run 3	137.824 ppm	5,013.006 ppm	44,381.356 ppm
Concentration RSD	0.5 %	0.3 %	0.2 %
Concentration SD	0.7 ppm	14.6 ppm	106.1 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	47,989.2298 ppm	9.2603 ppm	81,071.8212 ppm
Concentration per Run 1	48,043.327 ppm	9.831 ppm	81,280.272 ppm
Concentration per Run 2	47,949.724 ppm	8.683 ppm	81,147.428 ppm
Concentration per Run 3	47,974.638 ppm	9.267 ppm	80,787.764 ppm
Concentration RSD	0.1 %	6.2 %	0.3 %
Concentration SD	48.5 ppm	0.6 ppm	254.8 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	87,037.6161 ppm	32,637.6936 ppm	1,843.3743 ppm
Concentration per Run 1	87,183.942 ppm	32,711.790 ppm	1,850.930 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	87,078.215 ppm	32,768.062 ppm	1,855.995 ppm
Concentration per Run 3	86,850.691 ppm	32,433.228 ppm	1,823.197 ppm
Concentration RSD	0.2 %	0.5 %	1.0 %
Concentration SD	170.3 ppm	179.3 ppm	17.7 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	239.0334 ppm	300.5212 ppm	2.5710 ppm
Concentration per Run 1	245.685 ppm	256.795 ppm	1.939 ppm
Concentration per Run 2	233.997 ppm	372.120 ppm	3.510 ppm
Concentration per Run 3	237.419 ppm	272.649 ppm	2.263 ppm
Concentration RSD	2.5 %	20.8 %	32.3 %
Concentration SD	6.0 ppm	62.5 ppm	0.8 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.5791 ppm	12.9053 ppm	1.3334 ppm
Concentration per Run 1	0.604 ppm	12.950 ppm	0.405 ppm
Concentration per Run 2	0.594 ppm	12.837 ppm	2.012 ppm
Concentration per Run 3	0.539 ppm	12.929 ppm	1.583 ppm
Concentration RSD	6.1 %	0.5 %	62.4 %
Concentration SD	0.0 ppm	0.1 ppm	0.8 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	424.7517 ppm	21.2298 ppm	62.5410 ppm
Concentration per Run 1	424.533 ppm	21.140 ppm	62.362 ppm
Concentration per Run 2	423.998 ppm	20.187 ppm	62.483 ppm
Concentration per Run 3	425.724 ppm	22.363 ppm	62.779 ppm
Concentration RSD	0.2 %	5.1 %	0.3 %
Concentration SD	0.9 ppm	1.1 ppm	0.2 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	46.1227 ppm	14.3807 ppm	53.9328 ppm
Concentration per Run 1	46.112 ppm	14.922 ppm	53.984 ppm
Concentration per Run 2	46.167 ppm	14.228 ppm	53.772 ppm
Concentration per Run 3	46.088 ppm	13.991 ppm	54.043 ppm
Concentration RSD	0.1 %	3.4 %	0.3 %
Concentration SD	0.0 ppm	0.5 ppm	0.1 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	3,954.4544 ppm	0.1479 ppm	2,662.2296 ppm
Concentration per Run 1	3,947.073 ppm	0.359 ppm	2,663.567 ppm
Concentration per Run 2	3,961.425 ppm	-0.066 ppm	2,664.160 ppm
Concentration per Run 3	3,954.866 ppm	0.151 ppm	2,658.962 ppm
Concentration RSD	0.2 %	143.9 %	0.1 %
Concentration SD	7.2 ppm	0.2 ppm	2.8 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	88.0247 %	110.7447 %	97.8395 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	88.214 %	110.109 %	97.733 %
Concentration per Run 2	88.027 %	110.679 %	97.913 %
Concentration per Run 3	87.833 %	111.447 %	97.872 %
Concentration RSD	0.2 %	0.6 %	0.1 %
Concentration SD	0.2 %	0.7 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	95.2296 %	59.9333 ppm
Concentration per Run 1	95.465 %	53.844 ppm
Concentration per Run 2	95.162 %	76.500 ppm
Concentration per Run 3	95.062 %	49.456 ppm
Concentration RSD	0.2 %	24.2 %
Concentration SD	0.2 %	14.5 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	55 cps	2,695 cps	13 cps	161 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	32 cps	1 cps	-13 cps	42 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	151 cps	1,407 cps	651 cps	47,344 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2,043 cps	215 cps	74,228 cps	39,560 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2,877 cps	1,883 cps	621 cps	-36 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	18 cps	128 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	44,772 cps	19 cps	175 cps	350 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	10 cps	2,238 cps	18,559 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,273 cps	4,427 cps	8,008 cps	166,106 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,842 cps	52 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	45.5332 ppm	110.2918 ppm	0.8628 ppm
Concentration per Run 1	45.611 ppm	110.460 ppm	0.865 ppm
Concentration per Run 2	46.120 ppm	110.371 ppm	0.755 ppm
Concentration per Run 3	44.869 ppm	110.044 ppm	0.968 ppm
Concentration RSD	1.4 %	0.2 %	12.4 %
Concentration SD	0.6 ppm	0.2 ppm	0.1 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	8.2986 ppm	18.9736 ppm	2.6889 ppm
Concentration per Run 1	8.255 ppm	18.876 ppm	4.467 ppm
Concentration per Run 2	8.233 ppm	18.953 ppm	0.749 ppm
Concentration per Run 3	8.408 ppm	19.092 ppm	2.851 ppm
Concentration RSD	1.1 %	0.6 %	69.3 %
Concentration SD	0.1 ppm	0.1 ppm	1.9 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.1393 ppm	32.4371 ppm	35.2578 ppm
Concentration per Run 1	0.179 ppm	31.280 ppm	35.420 ppm
Concentration per Run 2	0.272 ppm	32.443 ppm	35.567 ppm
Concentration per Run 3	-0.032 ppm	33.588 ppm	34.786 ppm
Concentration RSD	111.9 %	3.6 %	1.2 %
Concentration SD	0.2 ppm	1.2 ppm	0.4 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	130.1432 ppm	5,618.2261 ppm	35,864.6697 ppm
Concentration per Run 1	130.372 ppm	5,607.256 ppm	35,897.087 ppm
Concentration per Run 2	130.553 ppm	5,621.274 ppm	35,926.203 ppm
Concentration per Run 3	129.504 ppm	5,626.149 ppm	35,770.719 ppm
Concentration RSD	0.4 %	0.2 %	0.2 %
Concentration SD	0.6 ppm	9.8 ppm	82.7 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	38,587.6838 ppm	10.1811 ppm	86,205.5048 ppm
Concentration per Run 1	38,681.386 ppm	10.610 ppm	86,328.427 ppm
Concentration per Run 2	38,688.287 ppm	9.591 ppm	86,369.535 ppm
Concentration per Run 3	38,393.379 ppm	10.342 ppm	85,918.552 ppm
Concentration RSD	0.4 %	5.2 %	0.3 %
Concentration SD	168.3 ppm	0.5 ppm	249.4 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	92,611.5893 ppm	26,144.6923 ppm	2,074.1652 ppm
Concentration per Run 1	92,631.052 ppm	26,332.404 ppm	2,072.956 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	92,791.971 ppm	26,041.886 ppm	2,079.225 ppm
Concentration per Run 3	92,411.744 ppm	26,059.787 ppm	2,070.315 ppm
Concentration RSD	0.2 %	0.6 %	0.2 %
Concentration SD	190.9 ppm	162.8 ppm	4.6 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	206.1799 ppm	273.0986 ppm	1.7988 ppm
Concentration per Run 1	209.203 ppm	287.167 ppm	2.099 ppm
Concentration per Run 2	205.767 ppm	249.094 ppm	1.281 ppm
Concentration per Run 3	203.569 ppm	283.035 ppm	2.017 ppm
Concentration RSD	1.4 %	7.6 %	25.0 %
Concentration SD	2.8 ppm	20.9 ppm	0.5 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.5211 ppm	12.3992 ppm	1.2732 ppm
Concentration per Run 1	0.477 ppm	12.547 ppm	1.423 ppm
Concentration per Run 2	0.586 ppm	12.464 ppm	1.242 ppm
Concentration per Run 3	0.501 ppm	12.187 ppm	1.155 ppm
Concentration RSD	11.0 %	1.5 %	10.7 %
Concentration SD	0.1 ppm	0.2 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	354.0526 ppm	26.2992 ppm	81.2241 ppm
Concentration per Run 1	352.942 ppm	28.117 ppm	82.613 ppm
Concentration per Run 2	354.438 ppm	25.262 ppm	80.969 ppm
Concentration per Run 3	354.778 ppm	25.518 ppm	80.090 ppm
Concentration RSD	0.3 %	6.0 %	1.6 %
Concentration SD	1.0 ppm	1.6 ppm	1.3 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	28.5607 ppm	13.2872 ppm	71.9210 ppm
Concentration per Run 1	28.527 ppm	14.422 ppm	71.770 ppm
Concentration per Run 2	28.752 ppm	12.390 ppm	71.892 ppm
Concentration per Run 3	28.403 ppm	13.050 ppm	72.101 ppm
Concentration RSD	0.6 %	7.8 %	0.2 %
Concentration SD	0.2 ppm	1.0 ppm	0.2 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	4,433.8182 ppm	-0.1093 ppm	812.7703 ppm
Concentration per Run 1	4,426.377 ppm	-0.136 ppm	812.494 ppm
Concentration per Run 2	4,442.687 ppm	0.165 ppm	814.855 ppm
Concentration per Run 3	4,432.391 ppm	-0.357 ppm	810.962 ppm
Concentration RSD	0.2 %	239.3 %	0.2 %
Concentration SD	8.2 ppm	0.3 ppm	2.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	87.0639 %	110.7701 %	97.2019 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	87.173 %	111.227 %	97.364 %
Concentration per Run 2	87.154 %	110.169 %	97.332 %
Concentration per Run 3	86.865 %	110.914 %	96.910 %
Concentration RSD	0.2 %	0.5 %	0.3 %
Concentration SD	0.2 %	0.5 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	94.5635 %	74.0551 ppm
Concentration per Run 1	94.851 %	81.533 ppm
Concentration per Run 2	94.617 %	66.017 ppm
Concentration per Run 3	94.223 %	74.616 ppm
Concentration RSD	0.3 %	10.5 %
Concentration SD	0.3 %	7.8 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	48 cps	1,686 cps	17 cps	164 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	28 cps	1 cps	-15 cps	45 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	141 cps	1,473 cps	814 cps	42,836 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1,845 cps	263 cps	88,601 cps	47,254 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2,587 cps	2,352 cps	600 cps	-35 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	3 cps	19 cps	137 cps	-1 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	41,617 cps	26 cps	255 cps	243 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	10 cps	3,365 cps	23,194 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	433 cps	4,378 cps	8,010 cps	165,024 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,724 cps	65 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	53.3372 ppm	901.7666 ppm	0.4389 ppm
Concentration per Run 1	52.775 ppm	900.175 ppm	0.420 ppm
Concentration per Run 2	54.208 ppm	914.859 ppm	0.474 ppm
Concentration per Run 3	53.029 ppm	890.266 ppm	0.423 ppm
Concentration RSD	1.4 %	1.4 %	6.9 %
Concentration SD	0.8 ppm	12.4 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	8.0592 ppm	20.5159 ppm	4.2558 ppm
Concentration per Run 1	7.673 ppm	20.041 ppm	4.442 ppm
Concentration per Run 2	8.293 ppm	21.096 ppm	3.637 ppm
Concentration per Run 3	8.212 ppm	20.411 ppm	4.688 ppm
Concentration RSD	4.2 %	2.6 %	12.9 %
Concentration SD	0.3 ppm	0.5 ppm	0.5 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.2042 ppm	18.0524 ppm	30.8096 ppm
Concentration per Run 1	0.598 ppm	13.794 ppm	30.842 ppm
Concentration per Run 2	0.016 ppm	21.437 ppm	31.170 ppm
Concentration per Run 3	-0.002 ppm	18.926 ppm	30.417 ppm
Concentration RSD	167.2 %	21.6 %	1.2 %
Concentration SD	0.3 ppm	3.9 ppm	0.4 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	69.3302 ppm	5,682.4920 ppm	34,193.1429 ppm
Concentration per Run 1	69.329 ppm	5,693.066 ppm	34,199.594 ppm
Concentration per Run 2	70.118 ppm	5,677.871 ppm	34,152.247 ppm
Concentration per Run 3	68.543 ppm	5,676.539 ppm	34,227.588 ppm
Concentration RSD	1.1 %	0.2 %	0.1 %
Concentration SD	0.8 ppm	9.2 ppm	38.1 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	36,528.3014 ppm	12.5144 ppm	112,313.9338 ppm
Concentration per Run 1	36,465.598 ppm	12.717 ppm	112,406.537 ppm
Concentration per Run 2	36,623.534 ppm	12.062 ppm	112,007.854 ppm
Concentration per Run 3	36,495.772 ppm	12.764 ppm	112,527.411 ppm
Concentration RSD	0.2 %	3.1 %	0.2 %
Concentration SD	83.8 ppm	0.4 ppm	271.9 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	120,808.9401 ppm	54,810.6265 ppm	2,474.0020 ppm
Concentration per Run 1	120,942.797 ppm	54,653.974 ppm	2,463.409 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	120,752.985 ppm	54,611.422 ppm	2,484.006 ppm
Concentration per Run 3	120,731.038 ppm	55,166.483 ppm	2,474.591 ppm
Concentration RSD	0.1 %	0.6 %	0.4 %
Concentration SD	116.4 ppm	308.9 ppm	10.3 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	225.1182 ppm	260.2723 ppm	1.1843 ppm
Concentration per Run 1	229.720 ppm	264.354 ppm	1.813 ppm
Concentration per Run 2	224.348 ppm	246.029 ppm	1.043 ppm
Concentration per Run 3	221.287 ppm	270.434 ppm	0.697 ppm
Concentration RSD	1.9 %	4.9 %	48.2 %
Concentration SD	4.3 ppm	12.7 ppm	0.6 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.4173 ppm	12.5798 ppm	0.7096 ppm
Concentration per Run 1	0.372 ppm	12.745 ppm	0.025 ppm
Concentration per Run 2	0.384 ppm	12.685 ppm	1.001 ppm
Concentration per Run 3	0.496 ppm	12.309 ppm	1.102 ppm
Concentration RSD	16.4 %	1.9 %	83.8 %
Concentration SD	0.1 ppm	0.2 ppm	0.6 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	3,054.8624 ppm	20.6933 ppm	72.2013 ppm
Concentration per Run 1	3,067.275 ppm	20.432 ppm	73.475 ppm
Concentration per Run 2	3,060.922 ppm	20.536 ppm	71.599 ppm
Concentration per Run 3	3,036.390 ppm	21.112 ppm	71.530 ppm
Concentration RSD	0.5 %	1.8 %	1.5 %
Concentration SD	16.3 ppm	0.4 ppm	1.1 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	56.4979 ppm	20.6822 ppm	72.8532 ppm
Concentration per Run 1	56.397 ppm	19.963 ppm	72.815 ppm
Concentration per Run 2	57.538 ppm	19.621 ppm	73.123 ppm
Concentration per Run 3	55.559 ppm	22.463 ppm	72.621 ppm
Concentration RSD	1.8 %	7.5 %	0.3 %
Concentration SD	1.0 ppm	1.6 ppm	0.3 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	5,002.7039 ppm	0.0380 ppm	1,065.1678 ppm
Concentration per Run 1	5,018.101 ppm	-0.399 ppm	1,064.765 ppm
Concentration per Run 2	5,011.041 ppm	0.427 ppm	1,077.386 ppm
Concentration per Run 3	4,978.970 ppm	0.086 ppm	1,053.352 ppm
Concentration RSD	0.4 %	1,093.7 %	1.1 %
Concentration SD	20.9 ppm	0.4 ppm	12.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	84.5628 %	108.7720 %	95.3666 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	84.863 %	108.759 %	95.243 %
Concentration per Run 2	83.591 %	109.248 %	95.302 %
Concentration per Run 3	85.235 %	108.309 %	95.555 %
Concentration RSD	1.0 %	0.4 %	0.2 %
Concentration SD	0.9 %	0.5 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	92.2786 %	55.2514 ppm
Concentration per Run 1	92.810 %	60.548 ppm
Concentration per Run 2	91.068 %	46.698 ppm
Concentration per Run 3	92.958 %	58.508 ppm
Concentration RSD	1.1 %	13.5 %
Concentration SD	1.1 %	7.5 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	51 cps	12,447 cps	9 cps	145 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	27 cps	2 cps	-14 cps	27 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	110 cps	711 cps	751 cps	37,186 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1,590 cps	294 cps	105,095 cps	56,123 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	4,939 cps	2,544 cps	597 cps	-41 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	13 cps	125 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	326,565 cps	19 cps	206 cps	432 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	14 cps	3,102 cps	23,807 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	513 cps	4,253 cps	7,866 cps	161,908 cps

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	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,320 cps	51 cps

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L793654-10 WG822495

Sample Type UNKNOWN Analysis Date 10/19/2015 11:20:51 AM

Dilution Factor 5

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	104.1898 ppm	404.1568 ppm	0.5149 ppm
Concentration per Run 1	104.129 ppm	404.779 ppm	0.509 ppm
Concentration per Run 2	105.104 ppm	404.680 ppm	0.520 ppm
Concentration per Run 3	103.336 ppm	403.012 ppm	0.516 ppm
Concentration RSD	0.8 %	0.2 %	1.1 %
Concentration SD	0.9 ppm	1.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	6.7043 ppm	19.3649 ppm	2.1445 ppm
Concentration per Run 1	6.755 ppm	19.301 ppm	2.277 ppm
Concentration per Run 2	6.641 ppm	18.952 ppm	1.462 ppm
Concentration per Run 3	6.717 ppm	19.841 ppm	2.695 ppm
Concentration RSD	0.9 %	2.3 %	29.2 %
Concentration SD	0.1 ppm	0.4 ppm	0.6 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	-0.0538 ppm	29.5172 ppm	31.1794 ppm
Concentration per Run 1	-0.152 ppm	33.214 ppm	30.972 ppm
Concentration per Run 2	0.030 ppm	25.206 ppm	31.271 ppm
Concentration per Run 3	-0.040 ppm	30.131 ppm	31.295 ppm
Concentration RSD	170.7 %	13.7 %	0.6 %
Concentration SD	0.1 ppm	4.0 ppm	0.2 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	71.5689 ppm	4,372.1909 ppm	46,625.4063 ppm
Concentration per Run 1	71.697 ppm	4,374.709 ppm	46,770.496 ppm
Concentration per Run 2	71.733 ppm	4,355.031 ppm	46,612.357 ppm
Concentration per Run 3	71.277 ppm	4,386.833 ppm	46,493.366 ppm
Concentration RSD	0.4 %	0.4 %	0.3 %
Concentration SD	0.3 ppm	16.0 ppm	139.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	49,824.1936 ppm	8.9130 ppm	95,113.5527 ppm
Concentration per Run 1	50,108.473 ppm	8.805 ppm	95,387.953 ppm
Concentration per Run 2	49,824.914 ppm	8.934 ppm	94,993.952 ppm
Concentration per Run 3	49,539.193 ppm	9.000 ppm	94,958.753 ppm
Concentration RSD	0.6 %	1.1 %	0.3 %
Concentration SD	284.6 ppm	0.1 ppm	238.3 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	101,991.6762 ppm	32,523.9933 ppm	1,671.8611 ppm
Concentration per Run 1	102,323.042 ppm	32,682.454 ppm	1,674.296 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	101,964.220 ppm	32,384.096 ppm	1,674.770 ppm
Concentration per Run 3	101,687.766 ppm	32,505.429 ppm	1,666.518 ppm
Concentration RSD	0.3 %	0.5 %	0.3 %
Concentration SD	318.5 ppm	150.0 ppm	4.6 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	206.9680 ppm	359.4296 ppm	2.0574 ppm
Concentration per Run 1	205.824 ppm	266.770 ppm	2.768 ppm
Concentration per Run 2	206.843 ppm	423.657 ppm	2.136 ppm
Concentration per Run 3	208.237 ppm	387.862 ppm	1.269 ppm
Concentration RSD	0.6 %	22.9 %	36.6 %
Concentration SD	1.2 ppm	82.2 ppm	0.8 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.3504 ppm	12.2958 ppm	0.8349 ppm
Concentration per Run 1	0.367 ppm	12.367 ppm	-0.539 ppm
Concentration per Run 2	0.371 ppm	12.352 ppm	1.443 ppm
Concentration per Run 3	0.314 ppm	12.168 ppm	1.601 ppm
Concentration RSD	9.0 %	0.9 %	142.8 %
Concentration SD	0.0 ppm	0.1 ppm	1.2 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	1,622.6981 ppm	14.1525 ppm	79.2040 ppm
Concentration per Run 1	1,620.684 ppm	12.959 ppm	79.002 ppm
Concentration per Run 2	1,623.641 ppm	15.030 ppm	79.091 ppm
Concentration per Run 3	1,623.770 ppm	14.468 ppm	79.518 ppm
Concentration RSD	0.1 %	7.6 %	0.3 %
Concentration SD	1.7 ppm	1.1 ppm	0.3 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	55.3842 ppm	17.2183 ppm	74.3613 ppm
Concentration per Run 1	55.261 ppm	20.928 ppm	74.405 ppm
Concentration per Run 2	55.690 ppm	17.179 ppm	74.538 ppm
Concentration per Run 3	55.201 ppm	13.548 ppm	74.141 ppm
Concentration RSD	0.5 %	21.4 %	0.3 %
Concentration SD	0.3 ppm	3.7 ppm	0.2 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	4,495.9863 ppm	0.1565 ppm	1,247.5424 ppm
Concentration per Run 1	4,490.421 ppm	-0.158 ppm	1,249.272 ppm
Concentration per Run 2	4,503.356 ppm	0.421 ppm	1,247.495 ppm
Concentration per Run 3	4,494.181 ppm	0.207 ppm	1,245.860 ppm
Concentration RSD	0.1 %	187.0 %	0.1 %
Concentration SD	6.7 ppm	0.3 ppm	1.7 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	87.2762 %	110.0406 %	96.8068 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	87.241 %	110.010 %	96.696 %
Concentration per Run 2	87.588 %	110.268 %	96.915 %
Concentration per Run 3	87.000 %	109.844 %	96.809 %
Concentration RSD	0.3 %	0.2 %	0.1 %
Concentration SD	0.3 %	0.2 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	94.2187 %	63.1787 ppm
Concentration per Run 1	94.153 %	59.359 ppm
Concentration per Run 2	94.685 %	48.816 ppm
Concentration per Run 3	93.818 %	81.360 ppm
Concentration RSD	0.5 %	26.3 %
Concentration SD	0.4 %	16.6 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	98 cps	5,363 cps	10 cps	116 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	25 cps	1 cps	-18 cps	37 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	108 cps	705 cps	553 cps	48,280 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2,065 cps	202 cps	84,756 cps	45,119 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2,791 cps	1,674 cps	516 cps	-26 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	3 cps	9 cps	118 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	165,738 cps	12 cps	215 cps	407 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	11 cps	3,014 cps	20,447 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	578 cps	4,389 cps	7,957 cps	164,353 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,663 cps	53 cps

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L794088-02 WG822339

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Dilution Factor 5

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	55.0545 ppm	76.6375 ppm	0.0233 ppm
Concentration per Run 1	55.416 ppm	77.965 ppm	0.031 ppm
Concentration per Run 2	54.964 ppm	76.611 ppm	0.020 ppm
Concentration per Run 3	54.783 ppm	75.337 ppm	0.019 ppm
Concentration RSD	0.6 %	1.7 %	27.7 %
Concentration SD	0.3 ppm	1.3 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	24.9573 ppm	55.5450 ppm	2.7823 ppm
Concentration per Run 1	24.888 ppm	56.469 ppm	2.135 ppm
Concentration per Run 2	24.663 ppm	55.779 ppm	2.995 ppm
Concentration per Run 3	25.321 ppm	54.387 ppm	3.217 ppm
Concentration RSD	1.3 %	1.9 %	20.5 %
Concentration SD	0.3 ppm	1.1 ppm	0.6 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.4151 ppm	59.8829 ppm	145.2420 ppm
Concentration per Run 1	0.157 ppm	63.735 ppm	148.013 ppm
Concentration per Run 2	0.584 ppm	58.553 ppm	145.300 ppm
Concentration per Run 3	0.504 ppm	57.360 ppm	142.414 ppm
Concentration RSD	54.7 %	5.7 %	1.9 %
Concentration SD	0.2 ppm	3.4 ppm	2.8 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	44.3648 ppm	9,438.4774 ppm	59,646.6593 ppm
Concentration per Run 1	45.254 ppm	9,503.170 ppm	60,147.689 ppm
Concentration per Run 2	44.281 ppm	9,447.299 ppm	59,725.244 ppm
Concentration per Run 3	43.560 ppm	9,364.964 ppm	59,067.045 ppm
Concentration RSD	1.9 %	0.7 %	0.9 %
Concentration SD	0.9 ppm	69.5 ppm	544.6 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	65,408.2780 ppm	10.0537 ppm	16,027.7237 ppm
Concentration per Run 1	65,943.694 ppm	10.113 ppm	16,176.144 ppm
Concentration per Run 2	65,516.576 ppm	9.596 ppm	16,029.987 ppm
Concentration per Run 3	64,764.564 ppm	10.452 ppm	15,877.040 ppm
Concentration RSD	0.9 %	4.3 %	0.9 %
Concentration SD	597.0 ppm	0.4 ppm	149.6 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	17,541.0123 ppm	3,308.6098 ppm	555.2157 ppm
Concentration per Run 1	17,652.594 ppm	3,355.351 ppm	558.959 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	17,561.829 ppm	3,297.697 ppm	553.289 ppm
Concentration per Run 3	17,408.614 ppm	3,272.781 ppm	553.399 ppm
Concentration RSD	0.7 %	1.3 %	0.6 %
Concentration SD	123.3 ppm	42.4 ppm	3.2 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	214.8512 ppm	372.8237 ppm	0.3622 ppm
Concentration per Run 1	220.775 ppm	358.870 ppm	0.244 ppm
Concentration per Run 2	211.360 ppm	312.335 ppm	0.231 ppm
Concentration per Run 3	212.418 ppm	447.266 ppm	0.612 ppm
Concentration RSD	2.4 %	18.4 %	59.8 %
Concentration SD	5.2 ppm	68.5 ppm	0.2 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.4704 ppm	24.8986 ppm	-0.1408 ppm
Concentration per Run 1	1.473 ppm	25.312 ppm	0.867 ppm
Concentration per Run 2	1.505 ppm	24.876 ppm	-0.434 ppm
Concentration per Run 3	1.432 ppm	24.508 ppm	-0.855 ppm
Concentration RSD	2.5 %	1.6 %	638.0 %
Concentration SD	0.0 ppm	0.4 ppm	0.9 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	1,347.3812 ppm	13.7424 ppm	20.6806 ppm
Concentration per Run 1	1,353.415 ppm	14.507 ppm	19.785 ppm
Concentration per Run 2	1,348.460 ppm	14.490 ppm	21.499 ppm
Concentration per Run 3	1,340.269 ppm	12.230 ppm	20.758 ppm
Concentration RSD	0.5 %	9.5 %	4.2 %
Concentration SD	6.6 ppm	1.3 ppm	0.9 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	8.3161 ppm	3.9756 ppm	22.4689 ppm
Concentration per Run 1	8.535 ppm	5.312 ppm	22.418 ppm
Concentration per Run 2	8.201 ppm	3.435 ppm	22.567 ppm
Concentration per Run 3	8.213 ppm	3.180 ppm	22.421 ppm
Concentration RSD	2.3 %	29.3 %	0.4 %
Concentration SD	0.2 ppm	1.2 ppm	0.1 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	1,142.9894 ppm	0.3284 ppm	244.8164 ppm
Concentration per Run 1	1,148.166 ppm	0.608 ppm	250.434 ppm
Concentration per Run 2	1,139.635 ppm	-0.238 ppm	240.844 ppm
Concentration per Run 3	1,141.167 ppm	0.615 ppm	243.171 ppm
Concentration RSD	0.4 %	149.3 %	2.0 %
Concentration SD	4.5 ppm	0.5 ppm	5.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	94.8314 %	114.4002 %	103.2367 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	94.736 %	113.792 %	103.187 %
Concentration per Run 2	94.649 %	113.923 %	103.283 %
Concentration per Run 3	95.110 %	115.485 %	103.240 %
Concentration RSD	0.3 %	0.8 %	0.0 %
Concentration SD	0.2 %	0.9 %	0.0 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.5093 %	70.0728 ppm
Concentration per Run 1	100.608 %	92.083 ppm
Concentration per Run 2	100.265 %	59.028 ppm
Concentration per Run 3	100.655 %	59.107 ppm
Concentration RSD	0.2 %	27.2 %
Concentration SD	0.2 %	19.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	57 cps	1,156 cps	2 cps	480 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	87 cps	1 cps	-11 cps	72 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	598 cps	496 cps	1,302 cps	68,220 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2,993 cps	250 cps	15,831 cps	8,592 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	314 cps	683 cps	597 cps	-19 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	57 cps	279 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	155,933 cps	13 cps	61 cps	72 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	4 cps	986 cps	5,920 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	128 cps	4,769 cps	8,273 cps	175,269 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,775 cps	59 cps

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L794093-01 WG822339

Sample Type UNKNOWN Analysis Date 10/19/2015 11:26:50 AM

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	6.8556 ppm	137.7754 ppm	4.7964 ppm
Concentration per Run 1	6.270 ppm	138.026 ppm	4.719 ppm
Concentration per Run 2	7.579 ppm	138.033 ppm	4.841 ppm
Concentration per Run 3	6.717 ppm	137.267 ppm	4.829 ppm
Concentration RSD	9.7 %	0.3 %	1.4 %
Concentration SD	0.7 ppm	0.4 ppm	0.1 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	23.2013 ppm	279.9658 ppm	3.3458 ppm
Concentration per Run 1	23.375 ppm	281.201 ppm	3.654 ppm
Concentration per Run 2	23.253 ppm	281.329 ppm	2.635 ppm
Concentration per Run 3	22.976 ppm	277.368 ppm	3.748 ppm
Concentration RSD	0.9 %	0.8 %	18.4 %
Concentration SD	0.2 ppm	2.3 ppm	0.6 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.9427 ppm	443.9266 ppm	40.1121 ppm
Concentration per Run 1	1.026 ppm	442.700 ppm	40.174 ppm
Concentration per Run 2	0.761 ppm	444.059 ppm	40.175 ppm
Concentration per Run 3	1.041 ppm	445.021 ppm	39.987 ppm
Concentration RSD	16.7 %	0.3 %	0.3 %
Concentration SD	0.2 ppm	1.2 ppm	0.1 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	481.3868 ppm	4,989.8284 ppm	27,680.3659 ppm
Concentration per Run 1	483.465 ppm	4,995.295 ppm	27,694.388 ppm
Concentration per Run 2	483.542 ppm	4,977.119 ppm	27,620.371 ppm
Concentration per Run 3	477.153 ppm	4,997.072 ppm	27,726.338 ppm
Concentration RSD	0.8 %	0.2 %	0.2 %
Concentration SD	3.7 ppm	11.0 ppm	54.4 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	29,863.7644 ppm	3.5960 ppm	13,297.9232 ppm
Concentration per Run 1	29,956.015 ppm	3.658 ppm	13,323.414 ppm
Concentration per Run 2	29,768.333 ppm	3.647 ppm	13,269.519 ppm
Concentration per Run 3	29,866.945 ppm	3.483 ppm	13,300.837 ppm
Concentration RSD	0.3 %	2.7 %	0.2 %
Concentration SD	93.9 ppm	0.1 ppm	27.1 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	14,428.7689 ppm	1,815.3104 ppm	485.0434 ppm
Concentration per Run 1	14,421.410 ppm	1,797.964 ppm	479.459 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	14,402.062 ppm	1,825.319 ppm	476.058 ppm
Concentration per Run 3	14,462.836 ppm	1,822.648 ppm	499.613 ppm
Concentration RSD	0.2 %	0.8 %	2.6 %
Concentration SD	31.0 ppm	15.1 ppm	12.7 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	70.9430 ppm	112.4869 ppm	4.2049 ppm
Concentration per Run 1	69.321 ppm	160.609 ppm	4.623 ppm
Concentration per Run 2	74.487 ppm	88.451 ppm	4.488 ppm
Concentration per Run 3	69.021 ppm	88.401 ppm	3.504 ppm
Concentration RSD	4.3 %	37.0 %	14.5 %
Concentration SD	3.1 ppm	41.7 ppm	0.6 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.4318 ppm	7.6997 ppm	0.2720 ppm
Concentration per Run 1	0.475 ppm	7.767 ppm	0.849 ppm
Concentration per Run 2	0.385 ppm	7.720 ppm	0.235 ppm
Concentration per Run 3	0.436 ppm	7.612 ppm	-0.268 ppm
Concentration RSD	10.4 %	1.0 %	205.6 %
Concentration SD	0.0 ppm	0.1 ppm	0.6 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	781.8385 ppm	10.1632 ppm	118.3807 ppm
Concentration per Run 1	780.356 ppm	9.788 ppm	118.580 ppm
Concentration per Run 2	784.126 ppm	9.226 ppm	117.650 ppm
Concentration per Run 3	781.033 ppm	11.475 ppm	118.912 ppm
Concentration RSD	0.3 %	11.5 %	0.6 %
Concentration SD	2.0 ppm	1.2 ppm	0.7 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	3.2195 ppm	8.4544 ppm	41.4049 ppm
Concentration per Run 1	3.122 ppm	8.037 ppm	41.313 ppm
Concentration per Run 2	3.336 ppm	9.833 ppm	41.607 ppm
Concentration per Run 3	3.201 ppm	7.493 ppm	41.295 ppm
Concentration RSD	3.4 %	14.5 %	0.4 %
Concentration SD	0.1 ppm	1.2 ppm	0.2 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	1,531.4390 ppm	16.7685 ppm	324.8463 ppm
Concentration per Run 1	1,528.128 ppm	17.057 ppm	326.475 ppm
Concentration per Run 2	1,534.631 ppm	16.686 ppm	325.135 ppm
Concentration per Run 3	1,531.558 ppm	16.563 ppm	322.929 ppm
Concentration RSD	0.2 %	1.5 %	0.6 %
Concentration SD	3.3 ppm	0.3 ppm	1.8 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	97.0542 %	112.8944 %	102.5997 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	97.031 %	112.403 %	102.785 %
Concentration per Run 2	97.382 %	113.635 %	102.453 %
Concentration per Run 3	96.750 %	112.645 %	102.561 %
Concentration RSD	0.3 %	0.6 %	0.2 %
Concentration SD	0.3 %	0.7 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	99.4707 %	42.5053 ppm
Concentration per Run 1	99.511 %	48.379 ppm
Concentration per Run 2	99.890 %	32.437 ppm
Concentration per Run 3	99.011 %	46.699 ppm
Concentration RSD	0.4 %	20.6 %
Concentration SD	0.4 %	8.8 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	5 cps	2,013 cps	83 cps	435 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	449 cps	2 cps	-1 cps	450 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	163 cps	5,208 cps	673 cps	30,632 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1,323 cps	93 cps	12,721 cps	6,843 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	167 cps	592 cps	156 cps	-74 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	6 cps	13 cps	85 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	88,168 cps	9 cps	345 cps	29 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	7 cps	1,781 cps	7,716 cps	39 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	165 cps	4,881 cps	8,164 cps	174,188 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,592 cps	44 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	6.5834 ppm	162.8787 ppm	9.5874 ppm
Concentration per Run 1	7.255 ppm	164.118 ppm	9.742 ppm
Concentration per Run 2	6.479 ppm	163.087 ppm	9.642 ppm
Concentration per Run 3	6.016 ppm	161.431 ppm	9.379 ppm
Concentration RSD	9.5 %	0.8 %	2.0 %
Concentration SD	0.6 ppm	1.4 ppm	0.2 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	42.4261 ppm	392.2275 ppm	2.6768 ppm
Concentration per Run 1	42.205 ppm	394.792 ppm	2.959 ppm
Concentration per Run 2	42.855 ppm	393.907 ppm	3.348 ppm
Concentration per Run 3	42.218 ppm	387.984 ppm	1.724 ppm
Concentration RSD	0.9 %	0.9 %	31.7 %
Concentration SD	0.4 ppm	3.7 ppm	0.8 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	1.4548 ppm	917.8469 ppm	53.9631 ppm
Concentration per Run 1	1.739 ppm	922.464 ppm	54.560 ppm
Concentration per Run 2	1.191 ppm	912.331 ppm	53.944 ppm
Concentration per Run 3	1.434 ppm	918.746 ppm	53.385 ppm
Concentration RSD	18.9 %	0.6 %	1.1 %
Concentration SD	0.3 ppm	5.1 ppm	0.6 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	828.5458 ppm	6,756.3671 ppm	28,885.6490 ppm
Concentration per Run 1	835.527 ppm	6,747.352 ppm	28,944.565 ppm
Concentration per Run 2	831.122 ppm	6,706.077 ppm	28,923.544 ppm
Concentration per Run 3	818.988 ppm	6,815.672 ppm	28,788.839 ppm
Concentration RSD	1.0 %	0.8 %	0.3 %
Concentration SD	8.6 ppm	55.4 ppm	84.5 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	30,826.4680 ppm	6.4889 ppm	26,899.1500 ppm
Concentration per Run 1	30,741.548 ppm	5.646 ppm	26,957.604 ppm
Concentration per Run 2	30,913.542 ppm	6.333 ppm	26,943.479 ppm
Concentration per Run 3	30,824.314 ppm	7.488 ppm	26,796.366 ppm
Concentration RSD	0.3 %	14.4 %	0.3 %
Concentration SD	86.0 ppm	0.9 ppm	89.3 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	28,840.8975 ppm	2,213.2212 ppm	531.7408 ppm
Concentration per Run 1	28,890.930 ppm	2,235.610 ppm	550.323 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	28,855.608 ppm	2,213.374 ppm	517.347 ppm
Concentration per Run 3	28,776.154 ppm	2,190.680 ppm	527.552 ppm
Concentration RSD	0.2 %	1.0 %	3.2 %
Concentration SD	58.8 ppm	22.5 ppm	16.9 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	127.5333 ppm	177.0792 ppm	5.6176 ppm
Concentration per Run 1	130.716 ppm	146.356 ppm	5.159 ppm
Concentration per Run 2	128.558 ppm	223.401 ppm	5.786 ppm
Concentration per Run 3	123.326 ppm	161.481 ppm	5.907 ppm
Concentration RSD	3.0 %	23.1 %	7.1 %
Concentration SD	3.8 ppm	40.8 ppm	0.4 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.5317 ppm	7.0111 ppm	-0.8042 ppm
Concentration per Run 1	0.504 ppm	7.128 ppm	-1.456 ppm
Concentration per Run 2	0.535 ppm	7.017 ppm	-0.329 ppm
Concentration per Run 3	0.556 ppm	6.888 ppm	-0.627 ppm
Concentration RSD	4.9 %	1.7 %	72.6 %
Concentration SD	0.0 ppm	0.1 ppm	0.6 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	1,672.4253 ppm	9.3840 ppm	267.0203 ppm
Concentration per Run 1	1,675.936 ppm	9.210 ppm	266.295 ppm
Concentration per Run 2	1,670.821 ppm	9.543 ppm	267.514 ppm
Concentration per Run 3	1,670.519 ppm	9.399 ppm	267.252 ppm
Concentration RSD	0.2 %	1.8 %	0.2 %
Concentration SD	3.0 ppm	0.2 ppm	0.6 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	6.8877 ppm	14.6823 ppm	58.2645 ppm
Concentration per Run 1	7.062 ppm	14.700 ppm	58.357 ppm
Concentration per Run 2	6.842 ppm	12.868 ppm	58.041 ppm
Concentration per Run 3	6.759 ppm	16.480 ppm	58.395 ppm
Concentration RSD	2.3 %	12.3 %	0.3 %
Concentration SD	0.2 ppm	1.8 ppm	0.2 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	2,424.6985 ppm	24.2504 ppm	459.6189 ppm
Concentration per Run 1	2,434.129 ppm	24.608 ppm	462.392 ppm
Concentration per Run 2	2,424.197 ppm	24.152 ppm	461.581 ppm
Concentration per Run 3	2,415.769 ppm	23.991 ppm	454.884 ppm
Concentration RSD	0.4 %	1.3 %	0.9 %
Concentration SD	9.2 ppm	0.3 ppm	4.1 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	95.0526 %	112.3154 %	101.4225 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	95.237 %	111.922 %	101.261 %
Concentration per Run 2	94.917 %	112.394 %	101.574 %
Concentration per Run 3	95.004 %	112.630 %	101.433 %
Concentration RSD	0.2 %	0.3 %	0.2 %
Concentration SD	0.2 %	0.4 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	98.4197 %	52.8513 ppm
Concentration per Run 1	98.569 %	59.938 ppm
Concentration per Run 2	98.301 %	46.768 ppm
Concentration per Run 3	98.389 %	51.848 ppm
Concentration RSD	0.1 %	12.6 %
Concentration SD	0.1 %	6.6 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	4 cps	2,401 cps	167 cps	801 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	629 cps	1 cps	9 cps	932 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	220 cps	9,046 cps	919 cps	32,437 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1,386 cps	162 cps	26,041 cps	13,854 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	206 cps	646 cps	327 cps	-60 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	7 cps	18 cps	77 cps	-4 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	190,144 cps	9 cps	791 cps	59 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	11 cps	2,556 cps	12,292 cps	56 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	236 cps	4,780 cps	8,122 cps	172,189 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,406 cps	50 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.0339 ppm	0.1020 ppm	0.0199 ppm
Concentration per Run 1	0.032 ppm	0.102 ppm	0.020 ppm
Concentration per Run 2	0.039 ppm	0.103 ppm	0.020 ppm
Concentration per Run 3	0.030 ppm	0.101 ppm	0.019 ppm
Concentration RSD	14.0 %	0.6 %	2.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0402 ppm	0.0178 ppm	0.3685 ppm
Concentration per Run 1	0.040 ppm	0.019 ppm	0.365 ppm
Concentration per Run 2	0.041 ppm	0.016 ppm	0.371 ppm
Concentration per Run 3	0.040 ppm	0.019 ppm	0.369 ppm
Concentration RSD	1.2 %	10.5 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0013 ppm	0.0751 ppm	0.8657 ppm
Concentration per Run 1	0.002 ppm	0.057 ppm	0.868 ppm
Concentration per Run 2	0.001 ppm	0.074 ppm	0.870 ppm
Concentration per Run 3	0.002 ppm	0.095 ppm	0.860 ppm
Concentration RSD	51.7 %	25.5 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	2.1546 ppm	298.5813 ppm	35.5470 ppm
Concentration per Run 1	2.159 ppm	297.267 ppm	35.461 ppm
Concentration per Run 2	2.166 ppm	299.037 ppm	35.525 ppm
Concentration per Run 3	2.139 ppm	299.440 ppm	35.654 ppm
Concentration RSD	0.7 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	1.2 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	36.6712 ppm	0.1674 ppm	323.4628 ppm
Concentration per Run 1	36.801 ppm	0.170 ppm	323.092 ppm
Concentration per Run 2	36.823 ppm	0.164 ppm	324.089 ppm
Concentration per Run 3	36.390 ppm	0.168 ppm	323.208 ppm
Concentration RSD	0.7 %	1.9 %	0.2 %
Concentration SD	0.2 ppm	0.0 ppm	0.5 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	349.3677 ppm	864.3119 ppm	9.4952 ppm
Concentration per Run 1	349.372 ppm	862.602 ppm	9.423 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	350.409 ppm	865.342 ppm	9.534 ppm
Concentration per Run 3	348.322 ppm	864.991 ppm	9.529 ppm
Concentration RSD	0.3 %	0.2 %	0.7 %
Concentration SD	1.0 ppm	1.5 ppm	0.1 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	721.9495 ppm	871.9088 ppm	0.0022 ppm
Concentration per Run 1	725.107 ppm	872.312 ppm	0.005 ppm
Concentration per Run 2	714.614 ppm	873.228 ppm	-0.001 ppm
Concentration per Run 3	726.128 ppm	870.186 ppm	0.002 ppm
Concentration RSD	0.9 %	0.2 %	121.9 %
Concentration SD	6.4 ppm	1.6 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0533 ppm	0.3237 ppm	-0.0141 ppm
Concentration per Run 1	0.053 ppm	0.324 ppm	-0.016 ppm
Concentration per Run 2	0.054 ppm	0.326 ppm	-0.012 ppm
Concentration per Run 3	0.053 ppm	0.321 ppm	-0.015 ppm
Concentration RSD	0.6 %	0.8 %	14.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	7.9566 ppm	0.0167 ppm	0.4219 ppm
Concentration per Run 1	7.980 ppm	0.021 ppm	0.420 ppm
Concentration per Run 2	7.951 ppm	0.016 ppm	0.426 ppm
Concentration per Run 3	7.938 ppm	0.013 ppm	0.419 ppm
Concentration RSD	0.3 %	26.8 %	1.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0149 ppm	0.2677 ppm	3.2842 ppm
Concentration per Run 1	0.015 ppm	0.259 ppm	3.287 ppm
Concentration per Run 2	0.015 ppm	0.270 ppm	3.288 ppm
Concentration per Run 3	0.015 ppm	0.275 ppm	3.278 ppm
Concentration RSD	0.6 %	2.9 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	24.1045 ppm	-0.0005 ppm	2,280.0590 ppm
Concentration per Run 1	24.136 ppm	0.000 ppm	2,282.701 ppm
Concentration per Run 2	24.082 ppm	-0.001 ppm	2,286.277 ppm
Concentration per Run 3	24.095 ppm	0.000 ppm	2,271.200 ppm
Concentration RSD	0.1 %	68.8 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	7.9 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	75.0377 %	125.8181 %	101.1181 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	75.102 %	126.396 %	101.068 %
Concentration per Run 2	74.967 %	126.022 %	100.989 %
Concentration per Run 3	75.044 %	125.036 %	101.298 %
Concentration RSD	0.1 %	0.6 %	0.2 %
Concentration SD	0.1 %	0.7 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	99.3870 %	1.9988 ppm
Concentration per Run 1	99.420 %	1.966 ppm
Concentration per Run 2	99.423 %	2.014 ppm
Concentration per Run 3	99.318 %	2.016 ppm
Concentration RSD	0.1 %	1.4 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	5 cps	338 cps	78 cps	169 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	3 cps	62 cps	-13 cps	30 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	623 cps	5,240 cps	9,904 cps	9,865 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	409 cps	982 cps	77,257 cps	41,423 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	19,871 cps	2,509 cps	528,800 cps	44,569 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	539 cps	635 cps	-5 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	198,948 cps	4 cps	308 cps	30 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	42 cps	35,977 cps	26,827 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	261,330 cps	3,774 cps	9,098 cps	171,672 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,577 cps	265 cps

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Sample Type UNKNOWN Analysis Date 10/19/2015 11:35:55 AM

Dilution Factor 5

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.0403 ppm	0.1490 ppm	0.0001 ppm
Concentration per Run 1	0.019 ppm	0.153 ppm	0.004 ppm
Concentration per Run 2	0.085 ppm	0.145 ppm	-0.007 ppm
Concentration per Run 3	0.017 ppm	0.149 ppm	0.003 ppm
Concentration RSD	96.8 %	2.9 %	4,338.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0168 ppm	-0.4806 ppm	0.1636 ppm
Concentration per Run 1	0.032 ppm	-0.425 ppm	0.164 ppm
Concentration per Run 2	0.000 ppm	-0.601 ppm	0.051 ppm
Concentration per Run 3	0.018 ppm	-0.416 ppm	0.276 ppm
Concentration RSD	95.9 %	21.7 %	68.5 %
Concentration SD	0.0 ppm	0.1 ppm	0.1 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0304 ppm	1,050.1605 ppm	0.1016 ppm
Concentration per Run 1	0.060 ppm	1,049.290 ppm	0.089 ppm
Concentration per Run 2	0.005 ppm	1,049.733 ppm	0.118 ppm
Concentration per Run 3	0.026 ppm	1,051.459 ppm	0.097 ppm
Concentration RSD	90.5 %	0.1 %	14.9 %
Concentration SD	0.0 ppm	1.1 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	5.1542 ppm	0.8245 ppm	18.5945 ppm
Concentration per Run 1	5.174 ppm	1.644 ppm	18.570 ppm
Concentration per Run 2	5.124 ppm	-0.282 ppm	18.311 ppm
Concentration per Run 3	5.165 ppm	1.112 ppm	18.903 ppm
Concentration RSD	0.5 %	120.6 %	1.6 %
Concentration SD	0.0 ppm	1.0 ppm	0.3 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	17.7832 ppm	0.1241 ppm	73.4144 ppm
Concentration per Run 1	15.707 ppm	0.046 ppm	73.355 ppm
Concentration per Run 2	17.779 ppm	0.155 ppm	73.191 ppm
Concentration per Run 3	19.864 ppm	0.171 ppm	73.697 ppm
Concentration RSD	11.7 %	55.1 %	0.4 %
Concentration SD	2.1 ppm	0.1 ppm	0.3 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	77.2687 ppm	14.3190 ppm	257.1657 ppm
Concentration per Run 1	76.876 ppm	14.435 ppm	258.341 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	78.232 ppm	14.262 ppm	255.541 ppm
Concentration per Run 3	76.698 ppm	14.259 ppm	257.614 ppm
Concentration RSD	1.1 %	0.7 %	0.6 %
Concentration SD	0.8 ppm	0.1 ppm	1.5 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	613.5829 ppm	656.4115 ppm	-0.0909 ppm
Concentration per Run 1	614.380 ppm	658.764 ppm	-0.008 ppm
Concentration per Run 2	613.467 ppm	656.692 ppm	-0.078 ppm
Concentration per Run 3	612.901 ppm	653.779 ppm	-0.187 ppm
Concentration RSD	0.1 %	0.4 %	99.1 %
Concentration SD	0.7 ppm	2.5 ppm	0.1 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0018 ppm	0.0039 ppm	0.0800 ppm
Concentration per Run 1	0.005 ppm	0.002 ppm	0.137 ppm
Concentration per Run 2	0.000 ppm	-0.003 ppm	0.078 ppm
Concentration per Run 3	0.000 ppm	0.013 ppm	0.025 ppm
Concentration RSD	163.4 %	223.0 %	69.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.2565 ppm	-0.1136 ppm	0.1845 ppm
Concentration per Run 1	0.256 ppm	-0.119 ppm	0.169 ppm
Concentration per Run 2	0.257 ppm	-0.150 ppm	0.306 ppm
Concentration per Run 3	0.257 ppm	-0.072 ppm	0.079 ppm
Concentration RSD	0.3 %	34.6 %	62.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0411 ppm	0.6776 ppm	1.1678 ppm
Concentration per Run 1	0.041 ppm	0.716 ppm	1.167 ppm
Concentration per Run 2	0.039 ppm	1.025 ppm	1.168 ppm
Concentration per Run 3	0.043 ppm	0.291 ppm	1.168 ppm
Concentration RSD	5.6 %	54.4 %	0.1 %
Concentration SD	0.0 ppm	0.4 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	40.6975 ppm	0.0441 ppm	203.8615 ppm
Concentration per Run 1	40.529 ppm	0.056 ppm	204.994 ppm
Concentration per Run 2	40.852 ppm	0.041 ppm	204.225 ppm
Concentration per Run 3	40.712 ppm	0.035 ppm	202.365 ppm
Concentration RSD	0.4 %	25.1 %	0.7 %
Concentration SD	0.2 ppm	0.0 ppm	1.4 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	99.4733 %	115.6980 %	104.1795 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	99.781 %	115.712 %	103.944 %
Concentration per Run 2	99.373 %	115.680 %	104.759 %
Concentration per Run 3	99.266 %	115.702 %	103.835 %
Concentration RSD	0.3 %	0.0 %	0.5 %
Concentration SD	0.3 %	0.0 %	0.5 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	99.5853 %	0.2048 ppm
Concentration per Run 1	99.974 %	-1.314 ppm
Concentration per Run 2	99.211 %	0.521 ppm
Concentration per Run 3	99.570 %	1.407 ppm
Concentration RSD	0.4 %	677.9 %
Concentration SD	0.4 %	1.4 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	25 cps	2 cps	6 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-10 cps	1 cps	-13 cps	10,662 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	0 cps	559 cps	15 cps	212 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	9 cps	39 cps	785 cps	400 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	14 cps	2,755 cps	18,317 cps	1,275 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	0 cps	-4 cps	-1 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	312 cps	-1 cps	4 cps	7 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	6 cps	493 cps	2,113 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,040 cps	5,003 cps	8,366 cps	176,870 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,612 cps	22 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	52.6890 ppm	198.3822 ppm	0.6232 ppm
Concentration per Run 1	53.099 ppm	199.015 ppm	0.569 ppm
Concentration per Run 2	52.714 ppm	198.712 ppm	0.548 ppm
Concentration per Run 3	52.255 ppm	197.419 ppm	0.752 ppm
Concentration RSD	0.8 %	0.4 %	18.0 %
Concentration SD	0.4 ppm	0.8 ppm	0.1 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	125.2402 ppm	178.2661 ppm	6.5765 ppm
Concentration per Run 1	125.275 ppm	177.027 ppm	5.779 ppm
Concentration per Run 2	124.826 ppm	179.752 ppm	8.307 ppm
Concentration per Run 3	125.620 ppm	178.020 ppm	5.644 ppm
Concentration RSD	0.3 %	0.8 %	22.8 %
Concentration SD	0.4 ppm	1.4 ppm	1.5 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.8179 ppm	79.7573 ppm	10.0953 ppm
Concentration per Run 1	0.579 ppm	83.163 ppm	9.691 ppm
Concentration per Run 2	0.840 ppm	77.828 ppm	10.277 ppm
Concentration per Run 3	1.035 ppm	78.281 ppm	10.318 ppm
Concentration RSD	28.0 %	3.7 %	3.5 %
Concentration SD	0.2 ppm	3.0 ppm	0.4 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	265.0237 ppm	6,588.0436 ppm	59,576.9765 ppm
Concentration per Run 1	265.892 ppm	6,630.057 ppm	59,821.389 ppm
Concentration per Run 2	264.869 ppm	6,568.105 ppm	59,537.933 ppm
Concentration per Run 3	264.310 ppm	6,565.969 ppm	59,371.607 ppm
Concentration RSD	0.3 %	0.6 %	0.4 %
Concentration SD	0.8 ppm	36.4 ppm	227.4 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	64,608.1855 ppm	17.6259 ppm	88,420.3121 ppm
Concentration per Run 1	64,789.311 ppm	17.644 ppm	88,833.662 ppm
Concentration per Run 2	64,747.206 ppm	17.308 ppm	88,284.305 ppm
Concentration per Run 3	64,288.039 ppm	17.925 ppm	88,142.969 ppm
Concentration RSD	0.4 %	1.8 %	0.4 %
Concentration SD	278.1 ppm	0.3 ppm	364.9 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	95,304.7553 ppm	20,500.1833 ppm	1,005.2439 ppm
Concentration per Run 1	95,848.059 ppm	20,524.099 ppm	997.345 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	95,108.219 ppm	20,578.004 ppm	1,020.985 ppm
Concentration per Run 3	94,957.987 ppm	20,398.447 ppm	997.402 ppm
Concentration RSD	0.5 %	0.4 %	1.4 %
Concentration SD	476.5 ppm	92.1 ppm	13.6 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	342.7144 ppm	446.1395 ppm	1.5850 ppm
Concentration per Run 1	344.953 ppm	427.582 ppm	1.246 ppm
Concentration per Run 2	342.656 ppm	481.790 ppm	1.801 ppm
Concentration per Run 3	340.534 ppm	429.047 ppm	1.707 ppm
Concentration RSD	0.6 %	6.9 %	18.7 %
Concentration SD	2.2 ppm	30.9 ppm	0.3 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.9214 ppm	5.2909 ppm	-2.8919 ppm
Concentration per Run 1	0.983 ppm	5.311 ppm	-2.898 ppm
Concentration per Run 2	0.923 ppm	5.348 ppm	-2.136 ppm
Concentration per Run 3	0.858 ppm	5.213 ppm	-3.641 ppm
Concentration RSD	6.8 %	1.3 %	26.0 %
Concentration SD	0.1 ppm	0.1 ppm	0.8 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	6,363.3229 ppm	334.1195 ppm	411.5873 ppm
Concentration per Run 1	6,383.604 ppm	333.091 ppm	413.280 ppm
Concentration per Run 2	6,338.916 ppm	334.750 ppm	413.137 ppm
Concentration per Run 3	6,367.449 ppm	334.517 ppm	408.345 ppm
Concentration RSD	0.4 %	0.3 %	0.7 %
Concentration SD	22.6 ppm	0.9 ppm	2.8 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.7280 ppm	23.8441 ppm	94.6188 ppm
Concentration per Run 1	1.737 ppm	26.588 ppm	94.851 ppm
Concentration per Run 2	1.783 ppm	23.995 ppm	94.491 ppm
Concentration per Run 3	1.663 ppm	20.950 ppm	94.515 ppm
Concentration RSD	3.5 %	11.8 %	0.2 %
Concentration SD	0.1 ppm	2.8 ppm	0.2 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	4,594.8113 ppm	5.8495 ppm	1,681.8331 ppm
Concentration per Run 1	4,607.759 ppm	5.930 ppm	1,685.895 ppm
Concentration per Run 2	4,590.667 ppm	5.414 ppm	1,685.884 ppm
Concentration per Run 3	4,586.008 ppm	6.205 ppm	1,673.720 ppm
Concentration RSD	0.2 %	6.9 %	0.4 %
Concentration SD	11.5 ppm	0.4 ppm	7.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	86.2725 %	110.9235 %	95.9364 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	86.167 %	110.647 %	95.916 %
Concentration per Run 2	86.290 %	110.951 %	96.339 %
Concentration per Run 3	86.360 %	111.173 %	95.555 %
Concentration RSD	0.1 %	0.2 %	0.4 %
Concentration SD	0.1 %	0.3 %	0.4 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	93.4040 %	77.3169 ppm
Concentration per Run 1	93.223 %	76.601 ppm
Concentration per Run 2	93.591 %	81.880 ppm
Concentration per Run 3	93.398 %	73.470 ppm
Concentration RSD	0.2 %	5.5 %
Concentration SD	0.2 %	4.3 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	54 cps	2,938 cps	12 cps	2,362 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	274 cps	4 cps	-2 cps	94 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	37 cps	2,908 cps	937 cps	69,959 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	3,036 cps	442 cps	89,348 cps	47,810 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1,995 cps	1,175 cps	1,012 cps	2 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	3 cps	36 cps	56 cps	-6 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	724,536 cps	331 cps	1,275 cps	17 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	17 cps	4,361 cps	23,291 cps	15 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	869 cps	4,339 cps	8,021 cps	162,875 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,519 cps	66 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0662 ppm	0.5012 ppm	0.4988 ppm	0.9549 ppm
Concentration per Run 1	2.068 ppm	0.502 ppm	0.500 ppm	0.952 ppm
Concentration per Run 2	2.067 ppm	0.501 ppm	0.499 ppm	0.955 ppm
Concentration per Run 3	2.064 ppm	0.501 ppm	0.498 ppm	0.958 ppm
Concentration RSD	0.1 %	0.1 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.4718 ppm	2.1035 ppm	0.9255 ppm	1.9329 ppm
Concentration per Run 1	0.472 ppm	2.097 ppm	0.924 ppm	1.924 ppm
Concentration per Run 2	0.471 ppm	2.109 ppm	0.925 ppm	1.944 ppm
Concentration per Run 3	0.472 ppm	2.104 ppm	0.927 ppm	1.931 ppm
Concentration RSD	0.2 %	0.3 %	0.2 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1.9540 ppm	2.8960 ppm	9.8900 ppm	9.7133 ppm
Concentration per Run 1	1.956 ppm	2.903 ppm	9.875 ppm	9.702 ppm
Concentration per Run 2	1.954 ppm	2.893 ppm	9.897 ppm	9.712 ppm
Concentration per Run 3	1.951 ppm	2.891 ppm	9.897 ppm	9.725 ppm
Concentration RSD	0.1 %	0.2 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.3140 ppm	1.4128 ppm	46.8419 ppm	50.3949 ppm
Concentration per Run 1	10.386 ppm	1.418 ppm	46.891 ppm	50.478 ppm
Concentration per Run 2	10.326 ppm	1.413 ppm	46.677 ppm	50.297 ppm
Concentration per Run 3	10.230 ppm	1.408 ppm	46.959 ppm	50.410 ppm
Concentration RSD	0.8 %	0.4 %	0.3 %	0.2 %
Concentration SD	0.1 ppm	0.0 ppm	0.1 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	9.3114 ppm	50.6525 ppm	46.5802 ppm	49.2937 ppm
Concentration per Run 1	9.318 ppm	50.697 ppm	46.623 ppm	49.350 ppm
Concentration per Run 2	9.203 ppm	50.673 ppm	46.617 ppm	49.349 ppm
Concentration per Run 3	9.413 ppm	50.588 ppm	46.501 ppm	49.181 ppm
Concentration RSD	1.1 %	0.1 %	0.1 %	0.2 %
Concentration SD	0.1 ppm	0.1 ppm	0.1 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0107 ppm	0.2019 ppm	0.9676 ppm	1.8464 ppm
Concentration per Run 1	2.015 ppm	0.202 ppm	0.967 ppm	1.848 ppm
Concentration per Run 2	2.012 ppm	0.202 ppm	0.969 ppm	1.846 ppm
Concentration per Run 3	2.005 ppm	0.201 ppm	0.966 ppm	1.845 ppm
Concentration RSD	0.2 %	0.3 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9652 ppm	0.9713 ppm	0.9896 ppm	0.5052 ppm
Concentration per Run 1	0.966 ppm	0.972 ppm	0.991 ppm	0.507 ppm
Concentration per Run 2	0.964 ppm	0.975 ppm	0.987 ppm	0.504 ppm
Concentration per Run 3	0.965 ppm	0.968 ppm	0.991 ppm	0.505 ppm
Concentration RSD	0.1 %	0.4 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.8899 ppm	0.9617 ppm	1.9278 ppm	1.8858 ppm
Concentration per Run 1	1.908 ppm	0.965 ppm	1.927 ppm	1.892 ppm
Concentration per Run 2	1.896 ppm	0.963 ppm	1.927 ppm	1.885 ppm
Concentration per Run 3	1.866 ppm	0.957 ppm	1.929 ppm	1.881 ppm
Concentration RSD	1.2 %	0.5 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	5.5003 ppm	89.7390 %	109.4279 %	97.2873 %
Concentration per Run 1	5.497 ppm	89.682 %	109.997 %	97.382 %
Concentration per Run 2	5.496 ppm	89.566 %	109.433 %	97.610 %
Concentration per Run 3	5.508 ppm	89.969 %	108.854 %	96.870 %
Concentration RSD	0.1 %	0.2 %	0.5 %	0.4 %
Concentration SD	0.0 ppm	0.2 %	0.6 %	0.4 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	95.3283 %	0.0154 ppm
Concentration per Run 1	95.191 %	-0.015 ppm
Concentration per Run 2	95.234 %	0.015 ppm
Concentration per Run 3	95.559 %	0.046 ppm
Concentration RSD	0.2 %	198.9 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,043 cps	3,506 cps	4,074 cps	8,450 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	349 cps	766 cps	8,038 cps	937 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,752 cps	15,011 cps	646 cps	5,210 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	223 cps	15,847 cps	21,667 cps	11,565 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	414 cps	24,764 cps	65,900 cps	4,788 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,005 cps	3,972 cps	5,057 cps	889 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	51,611 cps	440 cps	1,401 cps	1,944 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	549 cps	20,352 cps	4,619 cps	1,981 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,343 cps	4,513 cps	7,913 cps	165,169 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,859 cps	25 cps

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Sample Type QC Analysis Date 10/19/2015 11:44:47 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0002 ppm	0.0000 ppm	0.0001 ppm	-0.0002 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	366.1 %	1,600.0 %	168.4 %	139.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0004 ppm	0.0044 ppm	0.0009 ppm	0.0026 ppm
Concentration per Run 1	0.001 ppm	0.007 ppm	0.001 ppm	-0.002 ppm
Concentration per Run 2	-0.001 ppm	0.003 ppm	0.001 ppm	0.006 ppm
Concentration per Run 3	0.001 ppm	0.003 ppm	0.001 ppm	0.004 ppm
Concentration RSD	203.2 %	56.8 %	32.6 %	164.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0016 ppm	0.0013 ppm	-0.0422 ppm	0.0077 ppm
Concentration per Run 1	0.001 ppm	0.001 ppm	0.006 ppm	0.011 ppm
Concentration per Run 2	0.002 ppm	0.001 ppm	-0.073 ppm	0.008 ppm
Concentration per Run 3	0.002 ppm	0.001 ppm	-0.059 ppm	0.004 ppm
Concentration RSD	24.4 %	8.0 %	100.3 %	49.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0164 ppm	-0.0009 ppm	0.0304 ppm	0.0095 ppm
Concentration per Run 1	-0.088 ppm	-0.001 ppm	0.033 ppm	0.008 ppm
Concentration per Run 2	-0.005 ppm	-0.001 ppm	0.034 ppm	0.020 ppm
Concentration per Run 3	0.044 ppm	-0.001 ppm	0.025 ppm	0.001 ppm
Concentration RSD	408.3 %	3.3 %	15.9 %	100.2 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0006 ppm	0.0058 ppm	0.0257 ppm	0.0766 ppm
Concentration per Run 1	0.031 ppm	-0.005 ppm	0.022 ppm	0.046 ppm
Concentration per Run 2	-0.016 ppm	0.004 ppm	0.027 ppm	0.099 ppm
Concentration per Run 3	-0.017 ppm	0.018 ppm	0.028 ppm	0.085 ppm
Concentration RSD	4,655.1 %	205.6 %	11.1 %	36.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0045 ppm	0.0000 ppm	0.0000 ppm	0.0012 ppm
Concentration per Run 1	0.003 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.006 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration per Run 3	0.004 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	36.9 %	25.9 %	1,293.4 %	43.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0002 ppm	-0.0005 ppm	0.0027 ppm	0.0003 ppm
Concentration per Run 1	0.000 ppm	-0.003 ppm	0.002 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.001 ppm	0.003 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.002 ppm	0.000 ppm
Concentration RSD	27.6 %	372.3 %	25.9 %	30.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0016 ppm	0.0002 ppm	0.0163 ppm	-0.0007 ppm
Concentration per Run 1	0.006 ppm	0.000 ppm	0.015 ppm	-0.001 ppm
Concentration per Run 2	-0.002 ppm	0.000 ppm	0.016 ppm	-0.001 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.018 ppm	-0.001 ppm
Concentration RSD	229.3 %	8.2 %	8.6 %	6.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0215 ppm	103.5325 %	111.4273 %	104.9149 %
Concentration per Run 1	0.021 ppm	103.430 %	111.136 %	105.117 %
Concentration per Run 2	0.026 ppm	103.814 %	111.605 %	104.995 %
Concentration per Run 3	0.018 ppm	103.353 %	111.541 %	104.633 %
Concentration RSD	17.7 %	0.2 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.2 %	0.3 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.8309 %	-0.0239 ppm
Concentration per Run 1	100.696 %	0.007 ppm
Concentration per Run 2	101.209 %	-0.060 ppm
Concentration per Run 3	100.588 %	-0.019 ppm
Concentration RSD	0.3 %	142.3 %
Concentration SD	0.3 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	4 cps	2 cps	1 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-10 cps	11 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-1 cps	8 cps	11 cps	5 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	-1 cps	81 cps	27 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	106 cps	-14 cps	-88 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	-4 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	30 cps	0 cps	3 cps	5 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-24 cps	84 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	5 cps	5,207 cps	8,058 cps	178,118 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,832 cps	14 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	72.6290 ppm	150.4570 ppm	0.6494 ppm
Concentration per Run 1	71.569 ppm	151.333 ppm	0.599 ppm
Concentration per Run 2	74.429 ppm	150.609 ppm	0.674 ppm
Concentration per Run 3	71.889 ppm	149.430 ppm	0.675 ppm
Concentration RSD	2.2 %	0.6 %	6.8 %
Concentration SD	1.6 ppm	1.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	91.7232 ppm	117.7106 ppm	4.4985 ppm
Concentration per Run 1	91.640 ppm	117.501 ppm	4.278 ppm
Concentration per Run 2	91.363 ppm	118.901 ppm	3.747 ppm
Concentration per Run 3	92.167 ppm	116.729 ppm	5.471 ppm
Concentration RSD	0.4 %	0.9 %	19.6 %
Concentration SD	0.4 ppm	1.1 ppm	0.9 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.2614 ppm	60.0226 ppm	6.6294 ppm
Concentration per Run 1	0.488 ppm	58.767 ppm	6.812 ppm
Concentration per Run 2	-0.046 ppm	60.617 ppm	6.547 ppm
Concentration per Run 3	0.343 ppm	60.683 ppm	6.529 ppm
Concentration RSD	105.6 %	1.8 %	2.4 %
Concentration SD	0.3 ppm	1.1 ppm	0.2 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	160.5903 ppm	3,972.0205 ppm	37,586.2103 ppm
Concentration per Run 1	161.231 ppm	3,985.339 ppm	37,557.710 ppm
Concentration per Run 2	160.988 ppm	3,960.469 ppm	37,500.877 ppm
Concentration per Run 3	159.552 ppm	3,970.254 ppm	37,700.044 ppm
Concentration RSD	0.6 %	0.3 %	0.3 %
Concentration SD	0.9 ppm	12.5 ppm	102.6 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	40,238.2199 ppm	13.1974 ppm	118,251.3647 ppm
Concentration per Run 1	40,373.842 ppm	12.695 ppm	118,340.100 ppm
Concentration per Run 2	40,132.368 ppm	12.638 ppm	117,924.506 ppm
Concentration per Run 3	40,208.449 ppm	14.260 ppm	118,489.488 ppm
Concentration RSD	0.3 %	7.0 %	0.2 %
Concentration SD	123.5 ppm	0.9 ppm	292.8 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	127,449.7119 ppm	45,285.5767 ppm	592.6090 ppm
Concentration per Run 1	127,436.914 ppm	45,303.989 ppm	591.767 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	127,238.955 ppm	45,019.429 ppm	593.064 ppm
Concentration per Run 3	127,673.267 ppm	45,533.312 ppm	592.995 ppm
Concentration RSD	0.2 %	0.6 %	0.1 %
Concentration SD	217.4 ppm	257.4 ppm	0.7 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	192.4975 ppm	233.8757 ppm	2.8730 ppm
Concentration per Run 1	192.829 ppm	157.826 ppm	3.368 ppm
Concentration per Run 2	190.541 ppm	236.799 ppm	2.370 ppm
Concentration per Run 3	194.123 ppm	307.002 ppm	2.881 ppm
Concentration RSD	0.9 %	31.9 %	17.4 %
Concentration SD	1.8 ppm	74.6 ppm	0.5 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.5779 ppm	3.1975 ppm	-0.6397 ppm
Concentration per Run 1	0.631 ppm	3.177 ppm	-0.011 ppm
Concentration per Run 2	0.534 ppm	3.253 ppm	-1.422 ppm
Concentration per Run 3	0.569 ppm	3.163 ppm	-0.487 ppm
Concentration RSD	8.4 %	1.5 %	112.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.7 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	3,641.5582 ppm	312.5330 ppm	221.0968 ppm
Concentration per Run 1	3,642.932 ppm	310.984 ppm	221.585 ppm
Concentration per Run 2	3,641.408 ppm	312.029 ppm	219.968 ppm
Concentration per Run 3	3,640.335 ppm	314.587 ppm	221.737 ppm
Concentration RSD	0.0 %	0.6 %	0.4 %
Concentration SD	1.3 ppm	1.9 ppm	1.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.6086 ppm	15.2762 ppm	104.6534 ppm
Concentration per Run 1	1.652 ppm	13.700 ppm	104.605 ppm
Concentration per Run 2	1.572 ppm	16.665 ppm	104.261 ppm
Concentration per Run 3	1.601 ppm	15.463 ppm	105.094 ppm
Concentration RSD	2.5 %	9.8 %	0.4 %
Concentration SD	0.0 ppm	1.5 ppm	0.4 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	3,831.5257 ppm	18.4449 ppm	1,490.9914 ppm
Concentration per Run 1	3,827.581 ppm	18.380 ppm	1,494.523 ppm
Concentration per Run 2	3,821.786 ppm	18.411 ppm	1,495.874 ppm
Concentration per Run 3	3,845.210 ppm	18.544 ppm	1,482.578 ppm
Concentration RSD	0.3 %	0.5 %	0.5 %
Concentration SD	12.2 ppm	0.1 ppm	7.3 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	85.2197 %	110.0426 %	95.4733 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	85.203 %	109.934 %	95.242 %
Concentration per Run 2	85.185 %	110.302 %	95.543 %
Concentration per Run 3	85.271 %	109.892 %	95.635 %
Concentration RSD	0.1 %	0.2 %	0.2 %
Concentration SD	0.0 %	0.2 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	92.4296 %	78.8264 ppm
Concentration per Run 1	92.407 %	81.885 ppm
Concentration per Run 2	92.394 %	86.749 ppm
Concentration per Run 3	92.487 %	67.845 ppm
Concentration RSD	0.1 %	12.5 %
Concentration SD	0.1 %	9.8 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	69 cps	2,042 cps	12 cps	1,595 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	165 cps	2 cps	-13 cps	68 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	21 cps	1,615 cps	524 cps	40,543 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1,737 cps	307 cps	109,747 cps	58,724 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	4,047 cps	683 cps	498 cps	-48 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	19 cps	30 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	382,076 cps	285 cps	629 cps	15 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	10 cps	4,432 cps	17,906 cps	39 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	706 cps	4,286 cps	7,957 cps	162,089 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,346 cps	63 cps

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Sample Type QC Analysis Date 10/19/2015 11:51:03 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0655 ppm	0.5007 ppm	0.4999 ppm	0.9542 ppm
Concentration per Run 1	2.065 ppm	0.500 ppm	0.501 ppm	0.952 ppm
Concentration per Run 2	2.062 ppm	0.501 ppm	0.500 ppm	0.955 ppm
Concentration per Run 3	2.070 ppm	0.501 ppm	0.499 ppm	0.955 ppm
Concentration RSD	0.2 %	0.1 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.4712 ppm	2.0930 ppm	0.9269 ppm	1.9211 ppm
Concentration per Run 1	0.472 ppm	2.101 ppm	0.927 ppm	1.922 ppm
Concentration per Run 2	0.473 ppm	2.092 ppm	0.926 ppm	1.917 ppm
Concentration per Run 3	0.469 ppm	2.086 ppm	0.927 ppm	1.924 ppm
Concentration RSD	0.4 %	0.3 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1.9472 ppm	2.8873 ppm	9.8135 ppm	9.6642 ppm
Concentration per Run 1	1.952 ppm	2.889 ppm	9.817 ppm	9.646 ppm
Concentration per Run 2	1.947 ppm	2.893 ppm	9.850 ppm	9.658 ppm
Concentration per Run 3	1.943 ppm	2.880 ppm	9.774 ppm	9.688 ppm
Concentration RSD	0.2 %	0.2 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.3404 ppm	1.4021 ppm	46.6648 ppm	50.1077 ppm
Concentration per Run 1	10.396 ppm	1.401 ppm	46.724 ppm	50.028 ppm
Concentration per Run 2	10.363 ppm	1.402 ppm	46.589 ppm	50.147 ppm
Concentration per Run 3	10.261 ppm	1.403 ppm	46.681 ppm	50.149 ppm
Concentration RSD	0.7 %	0.1 %	0.1 %	0.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.1 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	9.2824 ppm	50.4732 ppm	46.2860 ppm	49.0775 ppm
Concentration per Run 1	9.282 ppm	50.533 ppm	46.323 ppm	48.971 ppm
Concentration per Run 2	9.252 ppm	50.439 ppm	46.378 ppm	49.114 ppm
Concentration per Run 3	9.314 ppm	50.447 ppm	46.156 ppm	49.147 ppm
Concentration RSD	0.3 %	0.1 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.1 ppm	0.1 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0106 ppm	0.2005 ppm	0.9654 ppm	1.8431 ppm
Concentration per Run 1	2.014 ppm	0.201 ppm	0.966 ppm	1.844 ppm
Concentration per Run 2	2.013 ppm	0.200 ppm	0.966 ppm	1.843 ppm
Concentration per Run 3	2.005 ppm	0.201 ppm	0.964 ppm	1.842 ppm
Concentration RSD	0.2 %	0.2 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9592 ppm	0.9658 ppm	0.9875 ppm	0.5048 ppm
Concentration per Run 1	0.958 ppm	0.961 ppm	0.988 ppm	0.507 ppm
Concentration per Run 2	0.961 ppm	0.976 ppm	0.984 ppm	0.503 ppm
Concentration per Run 3	0.958 ppm	0.961 ppm	0.991 ppm	0.505 ppm
Concentration RSD	0.2 %	0.9 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.8768 ppm	0.9570 ppm	1.8921 ppm	1.8789 ppm
Concentration per Run 1	1.871 ppm	0.957 ppm	1.887 ppm	1.886 ppm
Concentration per Run 2	1.890 ppm	0.960 ppm	1.894 ppm	1.878 ppm
Concentration per Run 3	1.869 ppm	0.954 ppm	1.894 ppm	1.873 ppm
Concentration RSD	0.6 %	0.3 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	5.4509 ppm	89.8398 %	109.9906 %	97.7507 %
Concentration per Run 1	5.461 ppm	89.818 %	109.888 %	97.836 %
Concentration per Run 2	5.440 ppm	89.905 %	109.544 %	97.740 %
Concentration per Run 3	5.452 ppm	89.796 %	110.540 %	97.676 %
Concentration RSD	0.2 %	0.1 %	0.5 %	0.1 %
Concentration SD	0.0 ppm	0.1 %	0.5 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	95.2693 %	0.0494 ppm
Concentration per Run 1	95.182 %	0.046 ppm
Concentration per Run 2	95.396 %	0.065 ppm
Concentration per Run 3	95.230 %	0.038 ppm
Concentration RSD	0.1 %	28.1 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,042 cps	3,501 cps	4,080 cps	8,484 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	349 cps	762 cps	8,089 cps	936 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,743 cps	14,956 cps	645 cps	5,210 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	224 cps	15,807 cps	21,697 cps	11,558 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	415 cps	24,804 cps	65,819 cps	4,791 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,004 cps	3,964 cps	5,051 cps	888 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	51,535 cps	440 cps	1,405 cps	1,941 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	548 cps	20,356 cps	4,556 cps	1,972 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,330 cps	4,518 cps	7,954 cps	165,955 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,849 cps	34 cps

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Sample Type QC Analysis Date 10/19/2015 11:53:46 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0004 ppm	-0.0001 ppm	0.0000 ppm	0.0002 ppm
Concentration per Run 1	-0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	344.2 %	198.5 %	813.2 %	169.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0001 ppm	0.0070 ppm	0.0006 ppm	0.0011 ppm
Concentration per Run 1	0.000 ppm	0.009 ppm	0.001 ppm	0.006 ppm
Concentration per Run 2	0.001 ppm	0.005 ppm	0.000 ppm	-0.003 ppm
Concentration per Run 3	0.000 ppm	0.008 ppm	0.001 ppm	0.000 ppm
Concentration RSD	715.8 %	31.1 %	66.3 %	431.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0010 ppm	0.0000 ppm	-0.0626 ppm	0.0035 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	0.013 ppm	0.003 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.152 ppm	0.005 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	-0.049 ppm	0.002 ppm
Concentration RSD	47.8 %	210.2 %	132.9 %	45.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0031 ppm	-0.0005 ppm	0.0177 ppm	-0.0110 ppm
Concentration per Run 1	0.037 ppm	-0.001 ppm	0.021 ppm	-0.021 ppm
Concentration per Run 2	0.022 ppm	-0.001 ppm	0.017 ppm	0.001 ppm
Concentration per Run 3	-0.049 ppm	0.000 ppm	0.016 ppm	-0.013 ppm
Concentration RSD	1,475.4 %	123.5 %	15.5 %	104.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0059 ppm	-0.0328 ppm	0.0142 ppm	0.0680 ppm
Concentration per Run 1	-0.017 ppm	-0.005 ppm	0.012 ppm	0.049 ppm
Concentration per Run 2	-0.019 ppm	-0.053 ppm	0.015 ppm	0.016 ppm
Concentration per Run 3	0.018 ppm	-0.040 ppm	0.016 ppm	0.138 ppm
Concentration RSD	356.0 %	76.9 %	13.4 %	92.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0049 ppm	0.0002 ppm	0.0001 ppm	0.0023 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.005 ppm	0.000 ppm	0.000 ppm	0.003 ppm
Concentration per Run 3	0.005 ppm	0.000 ppm	0.000 ppm	0.003 ppm
Concentration RSD	9.8 %	61.6 %	246.8 %	46.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0002 ppm	-0.0007 ppm	0.0016 ppm	0.0003 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.002 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.004 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.002 ppm	0.003 ppm	0.000 ppm
Concentration RSD	44.3 %	486.5 %	101.9 %	30.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0040 ppm	0.0003 ppm	0.0074 ppm	-0.0002 ppm
Concentration per Run 1	0.008 ppm	0.001 ppm	0.007 ppm	0.000 ppm
Concentration per Run 2	-0.003 ppm	0.000 ppm	0.007 ppm	-0.001 ppm
Concentration per Run 3	0.007 ppm	0.000 ppm	0.008 ppm	0.000 ppm
Concentration RSD	152.4 %	61.4 %	12.2 %	188.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0111 ppm	103.8052 %	111.5289 %	104.6785 %
Concentration per Run 1	0.011 ppm	103.783 %	111.784 %	104.800 %
Concentration per Run 2	0.013 ppm	103.810 %	111.498 %	104.568 %
Concentration per Run 3	0.009 ppm	103.822 %	111.304 %	104.668 %
Concentration RSD	16.5 %	0.0 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 %	0.2 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.9422 %	-0.0204 ppm
Concentration per Run 1	101.209 %	-0.009 ppm
Concentration per Run 2	100.849 %	-0.035 ppm
Concentration per Run 3	100.768 %	-0.017 ppm
Concentration RSD	0.2 %	66.9 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	3 cps	2 cps	4 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	2 cps	-13 cps	11 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-2 cps	1 cps	9 cps	3 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	4 cps	75 cps	23 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	87 cps	-30 cps	-89 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	0 cps	-1 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	29 cps	-1 cps	1 cps	5 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-22 cps	61 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2 cps	5,220 cps	8,065 cps	177,717 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,852 cps	15 cps

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Sample Type UNKNOWN Analysis Date 10/19/2015 11:58:11 AM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.1009 ppm	-0.0081 ppm	-0.0003 ppm	0.0195 ppm
Concentration per Run 1	-0.137 ppm	-0.016 ppm	-0.007 ppm	-0.012 ppm
Concentration per Run 2	-0.119 ppm	0.003 ppm	0.005 ppm	0.050 ppm
Concentration per Run 3	-0.047 ppm	-0.012 ppm	0.002 ppm	0.021 ppm
Concentration RSD	47.5 %	120.7 %	2,325.1 %	159.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0991 ppm	0.5595 ppm	0.0568 ppm	0.4753 ppm
Concentration per Run 1	0.121 ppm	0.500 ppm	0.067 ppm	0.129 ppm
Concentration per Run 2	0.023 ppm	0.607 ppm	0.056 ppm	0.132 ppm
Concentration per Run 3	0.153 ppm	0.571 ppm	0.047 ppm	1.165 ppm
Concentration RSD	68.5 %	9.7 %	17.8 %	125.7 %
Concentration SD	0.1 ppm	0.1 ppm	0.0 ppm	0.6 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.1628 ppm	0.0062 ppm	-4.2512 ppm	0.1922 ppm
Concentration per Run 1	0.187 ppm	0.004 ppm	-0.996 ppm	0.394 ppm
Concentration per Run 2	0.170 ppm	0.033 ppm	-2.307 ppm	0.169 ppm
Concentration per Run 3	0.132 ppm	-0.019 ppm	-9.451 ppm	0.014 ppm
Concentration RSD	17.3 %	423.1 %	107.0 %	99.4 %
Concentration SD	0.0 ppm	0.0 ppm	4.6 ppm	0.2 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0022 ppm	-0.1917 ppm	0.5446 ppm	-2.7171 ppm
Concentration per Run 1	3.324 ppm	-0.187 ppm	0.206 ppm	-2.740 ppm
Concentration per Run 2	6.160 ppm	-0.205 ppm	0.679 ppm	-2.156 ppm
Concentration per Run 3	-9.491 ppm	-0.183 ppm	0.748 ppm	-3.255 ppm
Concentration RSD	378,088.5 %	5.9 %	54.2 %	20.2 %
Concentration SD	8.3 ppm	0.0 ppm	0.3 ppm	0.6 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.7379 ppm	-4.6585 ppm	0.4401 ppm	-2.6097 ppm
Concentration per Run 1	-1.856 ppm	-3.724 ppm	0.886 ppm	-10.941 ppm
Concentration per Run 2	-0.023 ppm	-7.614 ppm	-0.131 ppm	-5.496 ppm
Concentration per Run 3	-0.335 ppm	-2.637 ppm	0.565 ppm	8.607 ppm
Concentration RSD	132.9 %	56.2 %	118.1 %	386.6 %
Concentration SD	1.0 ppm	2.6 ppm	0.5 ppm	10.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0546 ppm	0.0033 ppm	0.0050 ppm	0.1343 ppm
Concentration per Run 1	-0.124 ppm	0.006 ppm	0.016 ppm	0.108 ppm
Concentration per Run 2	-0.061 ppm	0.002 ppm	0.007 ppm	0.204 ppm
Concentration per Run 3	0.021 ppm	0.002 ppm	-0.008 ppm	0.091 ppm
Concentration RSD	133.4 %	66.2 %	236.9 %	45.6 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0079 ppm	0.1688 ppm	0.2402 ppm	-0.0136 ppm
Concentration per Run 1	0.005 ppm	0.708 ppm	0.154 ppm	-0.020 ppm
Concentration per Run 2	0.007 ppm	-0.085 ppm	0.307 ppm	-0.026 ppm
Concentration per Run 3	0.012 ppm	-0.117 ppm	0.259 ppm	0.005 ppm
Concentration RSD	41.4 %	276.9 %	32.5 %	123.3 %
Concentration SD	0.0 ppm	0.5 ppm	0.1 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.3993 ppm	0.0249 ppm	0.1923 ppm	-0.0494 ppm
Concentration per Run 1	-0.113 ppm	0.024 ppm	0.185 ppm	-0.076 ppm
Concentration per Run 2	1.136 ppm	0.036 ppm	0.282 ppm	-0.022 ppm
Concentration per Run 3	0.175 ppm	0.015 ppm	0.110 ppm	-0.050 ppm
Concentration RSD	163.8 %	42.9 %	44.7 %	54.8 %
Concentration SD	0.7 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	1.3562 ppm	104.0620 %	112.2360 %	105.4370 %
Concentration per Run 1	1.345 ppm	103.374 %	111.385 %	105.143 %
Concentration per Run 2	1.434 ppm	105.142 %	112.974 %	105.362 %
Concentration per Run 3	1.290 ppm	103.669 %	112.348 %	105.806 %
Concentration RSD	5.3 %	0.9 %	0.7 %	0.3 %
Concentration SD	0.1 ppm	0.9 %	0.8 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.3777 %	-2.3865 ppm
Concentration per Run 1	100.856 %	-1.674 ppm
Concentration per Run 2	102.362 %	-1.963 ppm
Concentration per Run 3	100.915 %	-3.523 ppm
Concentration RSD	0.8 %	41.7 %
Concentration SD	0.9 %	1.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	3 cps	2 cps	4 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	2 cps	-13 cps	13 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-1 cps	2 cps	10 cps	2 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	-14 cps	69 cps	19 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	80 cps	-45 cps	-99 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-4 cps	-2 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	23 cps	1 cps	3 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-24 cps	47 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	3 cps	5,233 cps	8,116 cps	179,005 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,929 cps	14 cps

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Sample Type UNKNOWN Analysis Date 10/19/2015 12:01:18 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.2102 ppm	-0.0005 ppm	0.0117 ppm	-0.0075 ppm
Concentration per Run 1	-0.183 ppm	0.003 ppm	0.013 ppm	0.019 ppm
Concentration per Run 2	-0.306 ppm	-0.003 ppm	0.016 ppm	-0.033 ppm
Concentration per Run 3	-0.141 ppm	-0.002 ppm	0.007 ppm	-0.008 ppm
Concentration RSD	40.7 %	726.9 %	41.0 %	349.0 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0941 ppm	0.4136 ppm	0.0271 ppm	0.0766 ppm
Concentration per Run 1	0.140 ppm	0.557 ppm	0.051 ppm	0.088 ppm
Concentration per Run 2	0.047 ppm	0.412 ppm	0.045 ppm	0.002 ppm
Concentration per Run 3	0.095 ppm	0.273 ppm	-0.015 ppm	0.140 ppm
Concentration RSD	49.4 %	34.4 %	133.6 %	90.7 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm	0.1 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.1324 ppm	-0.0072 ppm	-5.4445 ppm	0.2269 ppm
Concentration per Run 1	0.128 ppm	-0.006 ppm	-7.150 ppm	-0.026 ppm
Concentration per Run 2	0.137 ppm	-0.008 ppm	-5.175 ppm	0.452 ppm
Concentration per Run 3	0.132 ppm	-0.007 ppm	-4.009 ppm	0.254 ppm
Concentration RSD	3.5 %	15.4 %	29.2 %	105.8 %
Concentration SD	0.0 ppm	0.0 ppm	1.6 ppm	0.2 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-4.4572 ppm	-0.1422 ppm	0.7836 ppm	-1.7058 ppm
Concentration per Run 1	-5.118 ppm	-0.201 ppm	0.204 ppm	0.328 ppm
Concentration per Run 2	-9.483 ppm	0.030 ppm	0.855 ppm	-2.794 ppm
Concentration per Run 3	1.229 ppm	-0.256 ppm	1.292 ppm	-2.651 ppm
Concentration RSD	120.9 %	106.3 %	69.9 %	103.3 %
Concentration SD	5.4 ppm	0.2 ppm	0.5 ppm	1.8 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.7078 ppm	-2.6766 ppm	0.0241 ppm	0.2888 ppm
Concentration per Run 1	-0.649 ppm	-2.452 ppm	-0.164 ppm	11.213 ppm
Concentration per Run 2	4.905 ppm	-1.364 ppm	-0.563 ppm	-11.611 ppm
Concentration per Run 3	-2.133 ppm	-4.213 ppm	0.800 ppm	1.264 ppm
Concentration RSD	524.1 %	53.7 %	2,909.5 %	3,962.2 %
Concentration SD	3.7 ppm	1.4 ppm	0.7 ppm	11.4 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0120 ppm	0.0112 ppm	-0.0256 ppm	0.0782 ppm
Concentration per Run 1	0.101 ppm	0.017 ppm	-0.021 ppm	0.134 ppm
Concentration per Run 2	-0.095 ppm	-0.001 ppm	-0.052 ppm	0.118 ppm
Concentration per Run 3	-0.042 ppm	0.017 ppm	-0.004 ppm	-0.018 ppm
Concentration RSD	849.8 %	95.4 %	94.4 %	107.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	-0.0043 ppm	-0.0249 ppm	0.1153 ppm	0.0059 ppm
Concentration per Run 1	-0.010 ppm	-0.310 ppm	-0.028 ppm	0.020 ppm
Concentration per Run 2	-0.002 ppm	-0.020 ppm	0.179 ppm	0.001 ppm
Concentration per Run 3	-0.001 ppm	0.256 ppm	0.194 ppm	-0.003 ppm
Concentration RSD	113.8 %	1,137.8 %	107.9 %	204.5 %
Concentration SD	0.0 ppm	0.3 ppm	0.1 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.2097 ppm	0.0252 ppm	0.1747 ppm	-0.0671 ppm
Concentration per Run 1	0.091 ppm	0.025 ppm	0.223 ppm	-0.085 ppm
Concentration per Run 2	0.848 ppm	0.038 ppm	0.137 ppm	-0.031 ppm
Concentration per Run 3	-0.310 ppm	0.012 ppm	0.164 ppm	-0.086 ppm
Concentration RSD	280.6 %	52.3 %	25.2 %	47.1 %
Concentration SD	0.6 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.7019 ppm	103.6421 %	112.1807 %	105.1412 %
Concentration per Run 1	0.648 ppm	103.809 %	111.888 %	105.069 %
Concentration per Run 2	0.882 ppm	103.331 %	111.509 %	105.136 %
Concentration per Run 3	0.576 ppm	103.787 %	113.146 %	105.218 %
Concentration RSD	22.8 %	0.3 %	0.8 %	0.1 %
Concentration SD	0.2 ppm	0.3 %	0.9 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.8731 %	-0.5400 ppm
Concentration per Run 1	101.097 %	-3.448 ppm
Concentration per Run 2	100.624 %	1.741 ppm
Concentration per Run 3	100.897 %	0.087 ppm
Concentration RSD	0.2 %	490.8 %
Concentration SD	0.2 %	2.7 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	4 cps	3 cps	2 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-16 cps	11 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-1 cps	1 cps	9 cps	2 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	0 cps	-9 cps	71 cps	21 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	89 cps	-51 cps	-96 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-2 cps	-4 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	16 cps	0 cps	1 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-23 cps	47 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1 cps	5,212 cps	8,112 cps	178,502 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,840 cps	19 cps

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zLCSD WG822515

Sample Type UNKNOWN Analysis Date 10/19/2015 12:04:26 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.1989 ppm	-0.0068 ppm	0.0047 ppm	-0.0103 ppm
Concentration per Run 1	-0.145 ppm	-0.009 ppm	0.012 ppm	0.023 ppm
Concentration per Run 2	-0.316 ppm	-0.016 ppm	-0.002 ppm	0.047 ppm
Concentration per Run 3	-0.135 ppm	0.005 ppm	0.005 ppm	-0.100 ppm
Concentration RSD	51.2 %	156.3 %	142.6 %	768.1 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.1 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.1723 ppm	0.3248 ppm	0.0741 ppm	0.3062 ppm
Concentration per Run 1	0.163 ppm	0.569 ppm	0.018 ppm	0.717 ppm
Concentration per Run 2	0.268 ppm	0.014 ppm	0.073 ppm	-0.062 ppm
Concentration per Run 3	0.086 ppm	0.391 ppm	0.132 ppm	0.263 ppm
Concentration RSD	53.2 %	87.2 %	77.0 %	127.8 %
Concentration SD	0.1 ppm	0.3 ppm	0.1 ppm	0.4 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.1084 ppm	-0.0062 ppm	-8.0485 ppm	0.2947 ppm
Concentration per Run 1	0.095 ppm	-0.010 ppm	-6.351 ppm	0.207 ppm
Concentration per Run 2	0.088 ppm	-0.012 ppm	-9.847 ppm	0.019 ppm
Concentration per Run 3	0.142 ppm	0.003 ppm	-7.948 ppm	0.657 ppm
Concentration RSD	27.1 %	124.7 %	21.7 %	111.2 %
Concentration SD	0.0 ppm	0.0 ppm	1.7 ppm	0.3 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	3.4633 ppm	-0.0582 ppm	0.8415 ppm	-2.6205 ppm
Concentration per Run 1	2.045 ppm	-0.175 ppm	0.962 ppm	-3.381 ppm
Concentration per Run 2	5.481 ppm	0.120 ppm	0.275 ppm	-3.253 ppm
Concentration per Run 3	2.864 ppm	-0.120 ppm	1.287 ppm	-1.227 ppm
Concentration RSD	51.8 %	270.0 %	61.4 %	46.1 %
Concentration SD	1.8 ppm	0.2 ppm	0.5 ppm	1.2 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.1604 ppm	-3.2693 ppm	0.1996 ppm	3.2776 ppm
Concentration per Run 1	-0.686 ppm	-2.250 ppm	-0.745 ppm	3.209 ppm
Concentration per Run 2	-0.195 ppm	-4.173 ppm	0.697 ppm	8.222 ppm
Concentration per Run 3	0.401 ppm	-3.385 ppm	0.647 ppm	-1.597 ppm
Concentration RSD	339.4 %	29.6 %	410.1 %	149.8 %
Concentration SD	0.5 ppm	1.0 ppm	0.8 ppm	4.9 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0326 ppm	0.0125 ppm	-0.0121 ppm	0.0990 ppm
Concentration per Run 1	-0.099 ppm	0.014 ppm	-0.026 ppm	0.211 ppm
Concentration per Run 2	-0.003 ppm	0.014 ppm	-0.012 ppm	0.009 ppm
Concentration per Run 3	0.003 ppm	0.010 ppm	0.002 ppm	0.076 ppm
Concentration RSD	176.0 %	20.3 %	113.6 %	103.8 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	-0.0069 ppm	-0.0281 ppm	0.2282 ppm	-0.0014 ppm
Concentration per Run 1	-0.006 ppm	-0.346 ppm	0.309 ppm	-0.007 ppm
Concentration per Run 2	-0.004 ppm	0.148 ppm	0.156 ppm	0.001 ppm
Concentration per Run 3	-0.011 ppm	0.113 ppm	0.220 ppm	0.003 ppm
Concentration RSD	51.8 %	981.7 %	33.8 %	391.7 %
Concentration SD	0.0 ppm	0.3 ppm	0.1 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.4847 ppm	0.0173 ppm	0.0870 ppm	-0.0998 ppm
Concentration per Run 1	0.671 ppm	0.011 ppm	0.085 ppm	-0.062 ppm
Concentration per Run 2	0.690 ppm	0.019 ppm	0.162 ppm	-0.158 ppm
Concentration per Run 3	0.093 ppm	0.022 ppm	0.015 ppm	-0.080 ppm
Concentration RSD	70.1 %	35.1 %	84.5 %	51.3 %
Concentration SD	0.3 ppm	0.0 ppm	0.1 ppm	0.1 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.5838 ppm	103.9683 %	112.6416 %	105.1321 %
Concentration per Run 1	0.721 ppm	103.647 %	112.840 %	105.089 %
Concentration per Run 2	0.317 ppm	103.986 %	112.535 %	104.860 %
Concentration per Run 3	0.714 ppm	104.272 %	112.549 %	105.448 %
Concentration RSD	39.7 %	0.3 %	0.2 %	0.3 %
Concentration SD	0.2 ppm	0.3 %	0.2 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.0501 %	-3.3345 ppm
Concentration per Run 1	100.710 %	-6.119 ppm
Concentration per Run 2	101.193 %	-0.538 ppm
Concentration per Run 3	101.248 %	-3.346 ppm
Concentration RSD	0.3 %	83.7 %
Concentration SD	0.3 %	2.8 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	3 cps	2 cps	1 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	1 cps	-12 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-2 cps	1 cps	8 cps	3 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2 cps	2 cps	71 cps	19 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	88 cps	-48 cps	-93 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-2 cps	-3 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	14 cps	0 cps	2 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-25 cps	44 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1 cps	5,229 cps	8,145 cps	178,487 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,871 cps	11 cps

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zL794728-06 WG822515

Sample Type UNKNOWN Analysis Date 10/19/2015 12:07:34 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.3003 ppm	0.0010 ppm	0.0099 ppm	-0.0247 ppm
Concentration per Run 1	-0.329 ppm	0.006 ppm	0.012 ppm	-0.013 ppm
Concentration per Run 2	-0.385 ppm	-0.003 ppm	0.002 ppm	-0.028 ppm
Concentration per Run 3	-0.188 ppm	-0.001 ppm	0.016 ppm	-0.033 ppm
Concentration RSD	33.8 %	476.3 %	77.1 %	41.8 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0697 ppm	0.3636 ppm	0.1263 ppm	0.3351 ppm
Concentration per Run 1	0.089 ppm	0.419 ppm	0.127 ppm	-0.075 ppm
Concentration per Run 2	0.100 ppm	0.285 ppm	0.184 ppm	0.734 ppm
Concentration per Run 3	0.021 ppm	0.387 ppm	0.068 ppm	0.346 ppm
Concentration RSD	61.5 %	19.3 %	45.7 %	120.8 %
Concentration SD	0.0 ppm	0.1 ppm	0.1 ppm	0.4 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.1217 ppm	-0.0120 ppm	-0.1981 ppm	0.4676 ppm
Concentration per Run 1	0.117 ppm	-0.020 ppm	4.088 ppm	0.379 ppm
Concentration per Run 2	0.089 ppm	-0.013 ppm	-3.907 ppm	0.547 ppm
Concentration per Run 3	0.159 ppm	-0.003 ppm	-0.775 ppm	0.477 ppm
Concentration RSD	28.8 %	74.0 %	2,033.9 %	18.0 %
Concentration SD	0.0 ppm	0.0 ppm	4.0 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	3.0185 ppm	-0.1618 ppm	0.4925 ppm	-2.6485 ppm
Concentration per Run 1	6.039 ppm	-0.083 ppm	0.582 ppm	-3.162 ppm
Concentration per Run 2	3.802 ppm	-0.209 ppm	0.683 ppm	-1.523 ppm
Concentration per Run 3	-0.785 ppm	-0.193 ppm	0.213 ppm	-3.260 ppm
Concentration RSD	115.3 %	42.4 %	50.3 %	36.8 %
Concentration SD	3.5 ppm	0.1 ppm	0.2 ppm	1.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	2.0114 ppm	-0.1673 ppm	0.1830 ppm	-0.8153 ppm
Concentration per Run 1	4.432 ppm	-0.475 ppm	1.400 ppm	-9.482 ppm
Concentration per Run 2	-1.017 ppm	-2.227 ppm	-1.039 ppm	1.081 ppm
Concentration per Run 3	2.620 ppm	2.200 ppm	0.188 ppm	5.955 ppm
Concentration RSD	138.0 %	1,332.4 %	666.3 %	967.8 %
Concentration SD	2.8 ppm	2.2 ppm	1.2 ppm	7.9 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.1830 ppm	0.0013 ppm	-0.0202 ppm	0.1214 ppm
Concentration per Run 1	-0.149 ppm	-0.005 ppm	-0.016 ppm	0.133 ppm
Concentration per Run 2	-0.243 ppm	-0.002 ppm	-0.009 ppm	0.050 ppm
Concentration per Run 3	-0.157 ppm	0.011 ppm	-0.035 ppm	0.181 ppm
Concentration RSD	28.5 %	645.8 %	65.4 %	54.7 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	-0.0090 ppm	-0.2354 ppm	0.1721 ppm	0.0037 ppm
Concentration per Run 1	-0.004 ppm	-0.241 ppm	-0.007 ppm	0.024 ppm
Concentration per Run 2	-0.014 ppm	-0.492 ppm	0.256 ppm	-0.003 ppm
Concentration per Run 3	-0.009 ppm	0.027 ppm	0.267 ppm	-0.010 ppm
Concentration RSD	56.3 %	110.2 %	90.0 %	487.6 %
Concentration SD	0.0 ppm	0.3 ppm	0.2 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0748 ppm	0.0258 ppm	0.1088 ppm	-0.0876 ppm
Concentration per Run 1	0.357 ppm	0.038 ppm	0.222 ppm	-0.062 ppm
Concentration per Run 2	-0.020 ppm	0.030 ppm	0.037 ppm	-0.063 ppm
Concentration per Run 3	-0.112 ppm	0.009 ppm	0.067 ppm	-0.138 ppm
Concentration RSD	332.1 %	59.2 %	91.3 %	49.7 %
Concentration SD	0.2 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.8015 ppm	103.4179 %	112.4434 %	105.2538 %
Concentration per Run 1	0.962 ppm	103.670 %	113.020 %	105.014 %
Concentration per Run 2	0.638 ppm	103.485 %	112.624 %	105.248 %
Concentration per Run 3	0.805 ppm	103.099 %	111.687 %	105.500 %
Concentration RSD	20.3 %	0.3 %	0.6 %	0.2 %
Concentration SD	0.2 ppm	0.3 %	0.7 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.6172 %	-1.4885 ppm
Concentration per Run 1	100.864 %	1.904 ppm
Concentration per Run 2	100.580 %	-4.219 ppm
Concentration per Run 3	100.407 %	-2.151 ppm
Concentration RSD	0.2 %	209.3 %
Concentration SD	0.2 %	3.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	4 cps	3 cps	0 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-6 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-1 cps	1 cps	13 cps	4 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2 cps	-10 cps	69 cps	19 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	104 cps	-48 cps	-97 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	0 cps	-4 cps	-3 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	13 cps	-1 cps	2 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-23 cps	45 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2 cps	5,201 cps	8,131 cps	178,694 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,794 cps	16 cps

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zSD L794728-06 WG822515

Sample Type UNKNOWN Analysis Date 10/19/2015 12:10:44 PM

Dilution Factor 5

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	-1.2185 ppm	-0.0162 ppm	-0.0262 ppm
Concentration per Run 1	-1.027 ppm	0.014 ppm	-0.049 ppm
Concentration per Run 2	-1.159 ppm	-0.020 ppm	-0.026 ppm
Concentration per Run 3	-1.469 ppm	-0.043 ppm	-0.003 ppm
Concentration RSD	18.6 %	176.1 %	87.5 %
Concentration SD	0.2 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0222 ppm	0.3090 ppm	1.5894 ppm
Concentration per Run 1	-0.065 ppm	0.032 ppm	1.162 ppm
Concentration per Run 2	0.219 ppm	0.822 ppm	3.132 ppm
Concentration per Run 3	-0.087 ppm	0.073 ppm	0.473 ppm
Concentration RSD	767.7 %	144.0 %	86.8 %
Concentration SD	0.2 ppm	0.4 ppm	1.4 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.1935 ppm	2.4015 ppm	0.6052 ppm
Concentration per Run 1	0.295 ppm	1.777 ppm	0.262 ppm
Concentration per Run 2	-0.068 ppm	1.727 ppm	0.747 ppm
Concentration per Run 3	0.354 ppm	3.701 ppm	0.806 ppm
Concentration RSD	118.0 %	46.9 %	49.3 %
Concentration SD	0.2 ppm	1.1 ppm	0.3 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	-0.0528 ppm	-27.1179 ppm	1.2229 ppm
Concentration per Run 1	-0.109 ppm	-20.431 ppm	-0.075 ppm
Concentration per Run 2	-0.037 ppm	-34.211 ppm	1.900 ppm
Concentration per Run 3	-0.012 ppm	-26.712 ppm	1.844 ppm
Concentration RSD	95.1 %	25.4 %	91.9 %
Concentration SD	0.1 ppm	6.9 ppm	1.1 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	-12.9355 ppm	-0.6456 ppm	2.7637 ppm
Concentration per Run 1	-32.275 ppm	-0.760 ppm	2.254 ppm
Concentration per Run 2	-10.142 ppm	-0.047 ppm	2.569 ppm
Concentration per Run 3	3.611 ppm	-1.130 ppm	3.469 ppm
Concentration RSD	140.0 %	85.2 %	22.8 %
Concentration SD	18.1 ppm	0.6 ppm	0.6 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	-15.6509 ppm	-4.2375 ppm	-25.1817 ppm
Concentration per Run 1	-9.993 ppm	-1.990 ppm	-23.818 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	-21.215 ppm	-11.985 ppm	-21.652 ppm
Concentration per Run 3	-15.744 ppm	1.263 ppm	-30.075 ppm
Concentration RSD	35.9 %	162.9 %	17.4 %
Concentration SD	5.6 ppm	6.9 ppm	4.4 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	-1.9988 ppm	-17.8153 ppm	-0.4173 ppm
Concentration per Run 1	-2.210 ppm	-33.331 ppm	-0.910 ppm
Concentration per Run 2	-1.151 ppm	11.660 ppm	0.634 ppm
Concentration per Run 3	-2.636 ppm	-31.775 ppm	-0.975 ppm
Concentration RSD	38.3 %	143.3 %	218.3 %
Concentration SD	0.8 ppm	25.5 ppm	0.9 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0024 ppm	-0.0349 ppm	0.4342 ppm
Concentration per Run 1	0.022 ppm	0.064 ppm	0.973 ppm
Concentration per Run 2	-0.011 ppm	-0.168 ppm	-0.358 ppm
Concentration per Run 3	-0.004 ppm	-0.001 ppm	0.688 ppm
Concentration RSD	701.7 %	343.8 %	161.3 %
Concentration SD	0.0 ppm	0.1 ppm	0.7 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	-0.0331 ppm	1.5747 ppm	0.9912 ppm
Concentration per Run 1	-0.027 ppm	2.937 ppm	0.851 ppm
Concentration per Run 2	-0.026 ppm	0.525 ppm	1.479 ppm
Concentration per Run 3	-0.046 ppm	1.262 ppm	0.644 ppm
Concentration RSD	34.0 %	78.5 %	43.8 %
Concentration SD	0.0 ppm	1.2 ppm	0.4 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	-0.0081 ppm	-0.8099 ppm	0.1158 ppm
Concentration per Run 1	0.016 ppm	-1.050 ppm	0.098 ppm
Concentration per Run 2	-0.027 ppm	1.334 ppm	0.148 ppm
Concentration per Run 3	-0.013 ppm	-2.714 ppm	0.101 ppm
Concentration RSD	270.8 %	251.2 %	24.1 %
Concentration SD	0.0 ppm	2.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	0.7445 ppm	-0.4263 ppm	2.7073 ppm
Concentration per Run 1	0.226 ppm	-0.249 ppm	1.663 ppm
Concentration per Run 2	0.948 ppm	-0.294 ppm	4.906 ppm
Concentration per Run 3	1.059 ppm	-0.735 ppm	1.553 ppm
Concentration RSD	60.7 %	63.0 %	70.4 %
Concentration SD	0.5 ppm	0.3 ppm	1.9 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	103.7458 %	112.5706 %	104.6878 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	103.923 %	112.467 %	104.574 %
Concentration per Run 2	103.214 %	112.332 %	104.676 %
Concentration per Run 3	104.101 %	112.913 %	104.814 %
Concentration RSD	0.5 %	0.3 %	0.1 %
Concentration SD	0.5 %	0.3 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.7615 %	2.1085 ppm
Concentration per Run 1	100.812 %	0.684 ppm
Concentration per Run 2	100.245 %	3.283 ppm
Concentration per Run 3	101.228 %	2.359 ppm
Concentration RSD	0.5 %	62.5 %
Concentration SD	0.5 %	1.3 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	3 cps	1 cps	3 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-15 cps	13 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-1 cps	1 cps	10 cps	2 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	-6 cps	70 cps	18 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	78 cps	-57 cps	-100 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-4 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	14 cps	1 cps	2 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	1 cps	-24 cps	46 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1 cps	5,217 cps	8,140 cps	177,733 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,820 cps	22 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.2368 ppm	0.0029 ppm	0.0097 ppm	-0.0114 ppm
Concentration per Run 1	-0.228 ppm	0.000 ppm	-0.001 ppm	-0.022 ppm
Concentration per Run 2	-0.256 ppm	0.007 ppm	0.015 ppm	-0.019 ppm
Concentration per Run 3	-0.226 ppm	0.001 ppm	0.015 ppm	0.008 ppm
Concentration RSD	7.1 %	126.0 %	95.9 %	144.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0964 ppm	0.2786 ppm	0.0859 ppm	-0.1635 ppm
Concentration per Run 1	0.086 ppm	0.339 ppm	0.086 ppm	0.097 ppm
Concentration per Run 2	0.008 ppm	0.301 ppm	0.113 ppm	-0.340 ppm
Concentration per Run 3	0.195 ppm	0.195 ppm	0.058 ppm	-0.247 ppm
Concentration RSD	97.7 %	26.7 %	31.6 %	140.7 %
Concentration SD	0.1 ppm	0.1 ppm	0.0 ppm	0.2 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.1554 ppm	-0.0112 ppm	-7.3643 ppm	0.1924 ppm
Concentration per Run 1	0.115 ppm	-0.009 ppm	-5.121 ppm	0.158 ppm
Concentration per Run 2	0.165 ppm	-0.005 ppm	-9.407 ppm	0.306 ppm
Concentration per Run 3	0.187 ppm	-0.020 ppm	-7.565 ppm	0.113 ppm
Concentration RSD	23.8 %	70.7 %	29.2 %	52.5 %
Concentration SD	0.0 ppm	0.0 ppm	2.2 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-2.7886 ppm	-0.1934 ppm	0.5056 ppm	-1.5839 ppm
Concentration per Run 1	-4.759 ppm	-0.127 ppm	0.634 ppm	-0.584 ppm
Concentration per Run 2	-3.043 ppm	-0.245 ppm	0.315 ppm	-2.817 ppm
Concentration per Run 3	-0.563 ppm	-0.208 ppm	0.567 ppm	-1.350 ppm
Concentration RSD	75.7 %	31.1 %	33.3 %	71.6 %
Concentration SD	2.1 ppm	0.1 ppm	0.2 ppm	1.1 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	1.9730 ppm	-3.2928 ppm	0.8437 ppm	-0.3134 ppm
Concentration per Run 1	0.753 ppm	-2.993 ppm	0.932 ppm	3.894 ppm
Concentration per Run 2	4.024 ppm	-5.917 ppm	0.192 ppm	1.221 ppm
Concentration per Run 3	1.142 ppm	-0.968 ppm	1.407 ppm	-6.055 ppm
Concentration RSD	90.6 %	75.6 %	72.6 %	1,643.2 %
Concentration SD	1.8 ppm	2.5 ppm	0.6 ppm	5.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.1162 ppm	0.0050 ppm	-0.0297 ppm	0.1159 ppm
Concentration per Run 1	-0.167 ppm	0.005 ppm	-0.021 ppm	0.217 ppm
Concentration per Run 2	-0.058 ppm	0.002 ppm	-0.025 ppm	0.231 ppm
Concentration per Run 3	-0.124 ppm	0.008 ppm	-0.043 ppm	-0.100 ppm
Concentration RSD	46.9 %	60.7 %	39.3 %	161.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.2 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	-0.0063 ppm	0.1222 ppm	0.2083 ppm	-0.0081 ppm
Concentration per Run 1	-0.004 ppm	0.107 ppm	0.309 ppm	0.003 ppm
Concentration per Run 2	-0.005 ppm	0.115 ppm	0.092 ppm	-0.017 ppm
Concentration per Run 3	-0.009 ppm	0.145 ppm	0.223 ppm	-0.011 ppm
Concentration RSD	43.8 %	16.3 %	52.5 %	126.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.8878 ppm	0.0233 ppm	0.0441 ppm	-0.0960 ppm
Concentration per Run 1	1.303 ppm	0.020 ppm	0.003 ppm	-0.092 ppm
Concentration per Run 2	0.578 ppm	0.009 ppm	-0.061 ppm	-0.106 ppm
Concentration per Run 3	0.782 ppm	0.041 ppm	0.190 ppm	-0.090 ppm
Concentration RSD	42.1 %	67.6 %	295.8 %	8.7 %
Concentration SD	0.4 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.5136 ppm	102.5157 %	113.3490 %	105.4011 %
Concentration per Run 1	0.160 ppm	103.957 %	114.062 %	105.782 %
Concentration per Run 2	0.824 ppm	103.217 %	112.931 %	105.282 %
Concentration per Run 3	0.556 ppm	100.373 %	113.054 %	105.139 %
Concentration RSD	65.0 %	1.8 %	0.5 %	0.3 %
Concentration SD	0.3 ppm	1.9 %	0.6 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	99.8160 %	-0.8684 ppm
Concentration per Run 1	101.333 %	-0.037 ppm
Concentration per Run 2	100.310 %	0.015 ppm
Concentration per Run 3	97.805 %	-2.584 ppm
Concentration RSD	1.8 %	171.1 %
Concentration SD	1.8 %	1.5 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	4 cps	3 cps	1 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	0 cps	-10 cps	9 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-1 cps	1 cps	8 cps	2 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	-14 cps	70 cps	22 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	88 cps	-39 cps	-98 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	0 cps	-3 cps	-4 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	15 cps	0 cps	2 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	4 cps	-24 cps	43 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1 cps	5,156 cps	8,197 cps	178,944 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,653 cps	18 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.1572 ppm	-0.0032 ppm	0.0017 ppm	0.0241 ppm
Concentration per Run 1	-0.086 ppm	0.015 ppm	-0.005 ppm	0.020 ppm
Concentration per Run 2	-0.234 ppm	-0.010 ppm	0.008 ppm	0.005 ppm
Concentration per Run 3	-0.151 ppm	-0.015 ppm	0.002 ppm	0.047 ppm
Concentration RSD	47.0 %	505.1 %	382.5 %	88.8 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0911 ppm	0.4475 ppm	0.0619 ppm	0.2377 ppm
Concentration per Run 1	0.150 ppm	0.383 ppm	0.160 ppm	-0.544 ppm
Concentration per Run 2	0.111 ppm	0.445 ppm	0.023 ppm	0.441 ppm
Concentration per Run 3	0.012 ppm	0.514 ppm	0.002 ppm	0.815 ppm
Concentration RSD	77.9 %	14.7 %	138.7 %	295.5 %
Concentration SD	0.1 ppm	0.1 ppm	0.1 ppm	0.7 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.1232 ppm	-0.0136 ppm	-1.0275 ppm	-0.0141 ppm
Concentration per Run 1	0.094 ppm	-0.015 ppm	-2.670 ppm	0.032 ppm
Concentration per Run 2	0.144 ppm	-0.019 ppm	-1.022 ppm	-0.089 ppm
Concentration per Run 3	0.131 ppm	-0.007 ppm	0.610 ppm	0.015 ppm
Concentration RSD	20.9 %	45.9 %	159.6 %	465.6 %
Concentration SD	0.0 ppm	0.0 ppm	1.6 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-4.0124 ppm	-0.1249 ppm	0.7939 ppm	-2.5718 ppm
Concentration per Run 1	-3.973 ppm	-0.175 ppm	1.164 ppm	-2.451 ppm
Concentration per Run 2	-9.103 ppm	-0.124 ppm	0.700 ppm	-1.977 ppm
Concentration per Run 3	1.038 ppm	-0.075 ppm	0.518 ppm	-3.288 ppm
Concentration RSD	126.4 %	40.2 %	41.9 %	25.8 %
Concentration SD	5.1 ppm	0.1 ppm	0.3 ppm	0.7 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-1.4938 ppm	-5.2194 ppm	-0.2247 ppm	3.0050 ppm
Concentration per Run 1	-0.094 ppm	-5.945 ppm	0.146 ppm	1.465 ppm
Concentration per Run 2	-1.529 ppm	-4.538 ppm	-0.535 ppm	-1.811 ppm
Concentration per Run 3	-2.858 ppm	-5.175 ppm	-0.285 ppm	9.361 ppm
Concentration RSD	92.6 %	13.5 %	153.1 %	191.1 %
Concentration SD	1.4 ppm	0.7 ppm	0.3 ppm	5.7 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.1431 ppm	0.0037 ppm	-0.0011 ppm	0.0752 ppm
Concentration per Run 1	-0.217 ppm	-0.003 ppm	0.005 ppm	0.093 ppm
Concentration per Run 2	-0.234 ppm	0.002 ppm	0.005 ppm	-0.064 ppm
Concentration per Run 3	0.022 ppm	0.012 ppm	-0.013 ppm	0.196 ppm
Concentration RSD	100.4 %	200.9 %	897.1 %	174.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	-0.0029 ppm	0.1592 ppm	0.2264 ppm	-0.0135 ppm
Concentration per Run 1	-0.001 ppm	0.724 ppm	0.071 ppm	-0.013 ppm
Concentration per Run 2	-0.003 ppm	0.145 ppm	0.221 ppm	-0.016 ppm
Concentration per Run 3	-0.005 ppm	-0.391 ppm	0.387 ppm	-0.011 ppm
Concentration RSD	60.2 %	350.4 %	69.8 %	19.3 %
Concentration SD	0.0 ppm	0.6 ppm	0.2 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.5258 ppm	0.0076 ppm	-0.0542 ppm	-0.0791 ppm
Concentration per Run 1	0.750 ppm	0.018 ppm	0.077 ppm	-0.082 ppm
Concentration per Run 2	0.067 ppm	-0.004 ppm	-0.048 ppm	-0.103 ppm
Concentration per Run 3	0.761 ppm	0.008 ppm	-0.192 ppm	-0.053 ppm
Concentration RSD	75.6 %	143.3 %	248.6 %	31.9 %
Concentration SD	0.4 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.3822 ppm	103.3440 %	112.1022 %	104.4186 %
Concentration per Run 1	0.067 ppm	103.336 %	112.837 %	104.159 %
Concentration per Run 2	0.556 ppm	103.537 %	111.605 %	104.741 %
Concentration per Run 3	0.524 ppm	103.158 %	111.865 %	104.356 %
Concentration RSD	71.6 %	0.2 %	0.6 %	0.3 %
Concentration SD	0.3 ppm	0.2 %	0.6 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.4262 %	1.0546 ppm
Concentration per Run 1	100.298 %	4.596 ppm
Concentration per Run 2	100.705 %	3.036 ppm
Concentration per Run 3	100.276 %	-4.468 ppm
Concentration RSD	0.2 %	459.6 %
Concentration SD	0.2 %	4.8 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	3 cps	2 cps	5 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-13 cps	11 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-1 cps	0 cps	13 cps	1 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	0 cps	-5 cps	70 cps	19 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	78 cps	-54 cps	-93 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	0 cps	-3 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	17 cps	1 cps	2 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-28 cps	40 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	0 cps	5,197 cps	8,106 cps	177,276 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,761 cps	23 cps

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zMSD L794728-06 WG822515

Sample Type UNKNOWN Analysis Date 10/19/2015 12:20:08 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0324 ppm	-0.0069 ppm	0.0006 ppm	-0.0075 ppm
Concentration per Run 1	0.063 ppm	-0.012 ppm	0.000 ppm	-0.005 ppm
Concentration per Run 2	-0.051 ppm	-0.013 ppm	-0.007 ppm	-0.019 ppm
Concentration per Run 3	-0.110 ppm	0.004 ppm	0.009 ppm	0.002 ppm
Concentration RSD	271.8 %	141.4 %	1,207.5 %	147.6 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.1075 ppm	0.3641 ppm	0.0210 ppm	-0.1165 ppm
Concentration per Run 1	0.144 ppm	0.317 ppm	-0.050 ppm	-0.468 ppm
Concentration per Run 2	0.081 ppm	0.382 ppm	0.013 ppm	0.248 ppm
Concentration per Run 3	0.097 ppm	0.393 ppm	0.100 ppm	-0.130 ppm
Concentration RSD	30.7 %	11.2 %	359.0 %	307.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.4 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.1549 ppm	-0.0045 ppm	-7.4343 ppm	-0.0372 ppm
Concentration per Run 1	0.168 ppm	-0.003 ppm	-9.430 ppm	-0.226 ppm
Concentration per Run 2	0.161 ppm	0.002 ppm	-12.171 ppm	0.168 ppm
Concentration per Run 3	0.135 ppm	-0.012 ppm	-0.702 ppm	-0.054 ppm
Concentration RSD	11.1 %	159.6 %	80.6 %	529.9 %
Concentration SD	0.0 ppm	0.0 ppm	6.0 ppm	0.2 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-1.3258 ppm	-0.2142 ppm	0.4371 ppm	-3.2804 ppm
Concentration per Run 1	-2.663 ppm	-0.150 ppm	0.111 ppm	-3.496 ppm
Concentration per Run 2	7.993 ppm	-0.199 ppm	0.950 ppm	-3.196 ppm
Concentration per Run 3	-9.308 ppm	-0.294 ppm	0.250 ppm	-3.149 ppm
Concentration RSD	658.3 %	34.1 %	102.9 %	5.7 %
Concentration SD	8.7 ppm	0.1 ppm	0.4 ppm	0.2 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-1.9406 ppm	-3.4271 ppm	0.3457 ppm	-1.8463 ppm
Concentration per Run 1	-4.856 ppm	-0.536 ppm	1.092 ppm	1.637 ppm
Concentration per Run 2	-1.670 ppm	-2.530 ppm	0.583 ppm	-5.653 ppm
Concentration per Run 3	0.704 ppm	-7.216 ppm	-0.638 ppm	-1.523 ppm
Concentration RSD	143.7 %	100.1 %	257.2 %	198.0 %
Concentration SD	2.8 ppm	3.4 ppm	0.9 ppm	3.7 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0983 ppm	0.0042 ppm	-0.0075 ppm	0.1754 ppm
Concentration per Run 1	-0.020 ppm	0.008 ppm	0.004 ppm	0.238 ppm
Concentration per Run 2	-0.169 ppm	0.002 ppm	-0.021 ppm	0.100 ppm
Concentration per Run 3	-0.106 ppm	0.003 ppm	-0.006 ppm	0.188 ppm
Concentration RSD	76.2 %	74.0 %	172.1 %	39.7 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	-0.0091 ppm	-0.1515 ppm	0.0711 ppm	-0.0091 ppm
Concentration per Run 1	-0.017 ppm	-0.705 ppm	-0.137 ppm	-0.008 ppm
Concentration per Run 2	-0.004 ppm	-0.020 ppm	0.269 ppm	0.008 ppm
Concentration per Run 3	-0.006 ppm	0.270 ppm	0.082 ppm	-0.028 ppm
Concentration RSD	77.9 %	330.4 %	286.2 %	197.6 %
Concentration SD	0.0 ppm	0.5 ppm	0.2 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.1354 ppm	0.0167 ppm	0.0378 ppm	-0.0623 ppm
Concentration per Run 1	0.826 ppm	0.000 ppm	0.054 ppm	-0.086 ppm
Concentration per Run 2	-0.574 ppm	0.020 ppm	0.015 ppm	-0.034 ppm
Concentration per Run 3	0.155 ppm	0.030 ppm	0.044 ppm	-0.067 ppm
Concentration RSD	517.3 %	91.5 %	54.2 %	42.9 %
Concentration SD	0.7 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.3494 ppm	103.5689 %	112.4087 %	104.9559 %
Concentration per Run 1	0.189 ppm	103.430 %	112.032 %	104.991 %
Concentration per Run 2	0.284 ppm	103.361 %	112.714 %	104.756 %
Concentration per Run 3	0.575 ppm	103.916 %	112.480 %	105.121 %
Concentration RSD	57.5 %	0.3 %	0.3 %	0.2 %
Concentration SD	0.2 ppm	0.3 %	0.3 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.7807 %	-3.4545 ppm
Concentration per Run 1	100.557 %	1.552 ppm
Concentration per Run 2	100.605 %	-3.277 ppm
Concentration per Run 3	101.180 %	-8.638 ppm
Concentration RSD	0.3 %	147.6 %
Concentration SD	0.3 %	5.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	3 cps	2 cps	2 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	1 cps	-17 cps	10 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-1 cps	1 cps	8 cps	1 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	-17 cps	69 cps	17 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	-1 cps	86 cps	-46 cps	-98 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-3 cps	-2 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	13 cps	-1 cps	0 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-25 cps	43 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	0 cps	5,208 cps	8,129 cps	178,188 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,823 cps	11 cps

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zL794380-01 WG822515

Sample Type UNKNOWN Analysis Date 10/19/2015 12:23:16 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0328 ppm	-0.0004 ppm	-0.0022 ppm	-0.0037 ppm
Concentration per Run 1	0.004 ppm	0.003 ppm	-0.004 ppm	0.001 ppm
Concentration per Run 2	-0.077 ppm	-0.001 ppm	-0.004 ppm	0.001 ppm
Concentration per Run 3	-0.025 ppm	-0.003 ppm	0.001 ppm	-0.013 ppm
Concentration RSD	126.6 %	732.6 %	135.9 %	218.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0242 ppm	0.0862 ppm	0.0117 ppm	0.0731 ppm
Concentration per Run 1	0.033 ppm	0.060 ppm	0.007 ppm	0.001 ppm
Concentration per Run 2	0.034 ppm	0.102 ppm	0.017 ppm	0.246 ppm
Concentration per Run 3	0.006 ppm	0.097 ppm	0.011 ppm	-0.028 ppm
Concentration RSD	65.5 %	26.7 %	43.5 %	205.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.2 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0261 ppm	-0.0032 ppm	-1.1175 ppm	0.0247 ppm
Concentration per Run 1	0.033 ppm	-0.005 ppm	-1.936 ppm	0.081 ppm
Concentration per Run 2	0.031 ppm	-0.004 ppm	-0.620 ppm	0.074 ppm
Concentration per Run 3	0.014 ppm	-0.001 ppm	-0.797 ppm	-0.081 ppm
Concentration RSD	40.9 %	73.6 %	63.9 %	372.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.7 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0942 ppm	-0.0263 ppm	0.1787 ppm	-0.3347 ppm
Concentration per Run 1	0.830 ppm	-0.015 ppm	0.206 ppm	-0.387 ppm
Concentration per Run 2	0.695 ppm	-0.053 ppm	0.241 ppm	-0.685 ppm
Concentration per Run 3	-1.243 ppm	-0.011 ppm	0.089 ppm	0.069 ppm
Concentration RSD	1,230.7 %	87.5 %	44.3 %	113.4 %
Concentration SD	1.2 ppm	0.0 ppm	0.1 ppm	0.4 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.4939 ppm	-0.8276 ppm	-0.2833 ppm	2.0086 ppm
Concentration per Run 1	-0.309 ppm	-0.963 ppm	-0.290 ppm	0.935 ppm
Concentration per Run 2	1.330 ppm	-0.530 ppm	-0.231 ppm	-0.573 ppm
Concentration per Run 3	0.461 ppm	-0.990 ppm	-0.328 ppm	5.664 ppm
Concentration RSD	166.0 %	31.2 %	17.3 %	162.0 %
Concentration SD	0.8 ppm	0.3 ppm	0.0 ppm	3.3 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0079 ppm	0.0019 ppm	-0.0036 ppm	0.0262 ppm
Concentration per Run 1	-0.056 ppm	0.002 ppm	-0.003 ppm	0.046 ppm
Concentration per Run 2	0.015 ppm	0.002 ppm	-0.002 ppm	0.015 ppm
Concentration per Run 3	0.017 ppm	0.002 ppm	-0.006 ppm	0.018 ppm
Concentration RSD	522.1 %	11.0 %	60.1 %	64.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	-0.0007 ppm	-0.0355 ppm	0.0389 ppm	-0.0038 ppm
Concentration per Run 1	0.000 ppm	-0.016 ppm	0.077 ppm	-0.002 ppm
Concentration per Run 2	-0.001 ppm	-0.058 ppm	0.003 ppm	-0.005 ppm
Concentration per Run 3	-0.001 ppm	-0.033 ppm	0.037 ppm	-0.004 ppm
Concentration RSD	95.9 %	60.4 %	96.0 %	41.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0658 ppm	0.0048 ppm	0.0016 ppm	-0.0163 ppm
Concentration per Run 1	0.259 ppm	0.010 ppm	0.008 ppm	-0.012 ppm
Concentration per Run 2	-0.055 ppm	0.002 ppm	-0.019 ppm	-0.020 ppm
Concentration per Run 3	-0.008 ppm	0.002 ppm	0.016 ppm	-0.017 ppm
Concentration RSD	257.4 %	95.9 %	1,171.9 %	23.8 %
Concentration SD	0.2 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0784 ppm	103.3623 %	112.6956 %	104.5961 %
Concentration per Run 1	0.080 ppm	103.144 %	112.779 %	104.726 %
Concentration per Run 2	0.077 ppm	103.457 %	112.755 %	104.423 %
Concentration per Run 3	0.078 ppm	103.486 %	112.553 %	104.640 %
Concentration RSD	2.0 %	0.2 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.2 %	0.1 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.5240 %	-0.6331 ppm
Concentration per Run 1	100.401 %	-0.252 ppm
Concentration per Run 2	100.525 %	-0.504 ppm
Concentration per Run 3	100.646 %	-1.143 ppm
Concentration RSD	0.1 %	72.6 %
Concentration SD	0.1 %	0.5 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	3 cps	1 cps	1 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	1 cps	-13 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-1 cps	0 cps	10 cps	2 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	-6 cps	71 cps	21 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	84 cps	-72 cps	-86 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-2 cps	-3 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	16 cps	-1 cps	2 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-24 cps	42 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	0 cps	5,198 cps	8,149 cps	177,577 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,778 cps	12 cps

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zL794380-02 WG822515

Sample Type UNKNOWN Analysis Date 10/19/2015 12:26:23 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0391 ppm	-0.0010 ppm	0.0030 ppm	-0.0020 ppm
Concentration per Run 1	-0.037 ppm	-0.001 ppm	0.001 ppm	0.000 ppm
Concentration per Run 2	-0.019 ppm	-0.001 ppm	0.002 ppm	0.005 ppm
Concentration per Run 3	-0.061 ppm	-0.002 ppm	0.006 ppm	-0.011 ppm
Concentration RSD	52.8 %	46.2 %	99.3 %	387.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0174 ppm	0.0747 ppm	0.0053 ppm	-0.0388 ppm
Concentration per Run 1	0.012 ppm	0.124 ppm	0.008 ppm	-0.225 ppm
Concentration per Run 2	0.034 ppm	0.022 ppm	0.011 ppm	0.084 ppm
Concentration per Run 3	0.007 ppm	0.078 ppm	-0.004 ppm	0.025 ppm
Concentration RSD	82.1 %	68.8 %	147.5 %	422.6 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm	0.2 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0297 ppm	-0.0014 ppm	-0.8322 ppm	0.0394 ppm
Concentration per Run 1	0.025 ppm	0.000 ppm	-0.827 ppm	-0.024 ppm
Concentration per Run 2	0.036 ppm	-0.001 ppm	0.478 ppm	0.108 ppm
Concentration per Run 3	0.028 ppm	-0.003 ppm	-2.148 ppm	0.034 ppm
Concentration RSD	18.3 %	99.2 %	157.8 %	167.9 %
Concentration SD	0.0 ppm	0.0 ppm	1.3 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0463 ppm	-0.0413 ppm	0.0804 ppm	-0.6068 ppm
Concentration per Run 1	-1.158 ppm	-0.061 ppm	0.029 ppm	-0.446 ppm
Concentration per Run 2	1.271 ppm	-0.027 ppm	0.104 ppm	-0.886 ppm
Concentration per Run 3	0.026 ppm	-0.036 ppm	0.108 ppm	-0.489 ppm
Concentration RSD	2,621.5 %	42.6 %	55.2 %	39.9 %
Concentration SD	1.2 ppm	0.0 ppm	0.0 ppm	0.2 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.3347 ppm	-1.2935 ppm	-0.1829 ppm	0.6869 ppm
Concentration per Run 1	-0.400 ppm	-1.081 ppm	-0.205 ppm	0.907 ppm
Concentration per Run 2	-0.162 ppm	-1.848 ppm	-0.202 ppm	1.387 ppm
Concentration per Run 3	-0.441 ppm	-0.952 ppm	-0.141 ppm	-0.233 ppm
Concentration RSD	45.0 %	37.4 %	19.7 %	121.1 %
Concentration SD	0.2 ppm	0.5 ppm	0.0 ppm	0.8 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0271 ppm	0.0019 ppm	-0.0045 ppm	0.0257 ppm
Concentration per Run 1	-0.026 ppm	0.001 ppm	-0.003 ppm	0.027 ppm
Concentration per Run 2	-0.021 ppm	0.004 ppm	-0.005 ppm	0.032 ppm
Concentration per Run 3	-0.035 ppm	0.001 ppm	-0.005 ppm	0.018 ppm
Concentration RSD	26.2 %	84.4 %	27.5 %	27.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	-0.0017 ppm	0.0398 ppm	0.0520 ppm	-0.0035 ppm
Concentration per Run 1	-0.001 ppm	0.008 ppm	0.042 ppm	-0.004 ppm
Concentration per Run 2	-0.002 ppm	0.008 ppm	0.075 ppm	0.002 ppm
Concentration per Run 3	-0.002 ppm	0.104 ppm	0.039 ppm	-0.009 ppm
Concentration RSD	27.6 %	139.1 %	38.4 %	165.7 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0370 ppm	0.0062 ppm	0.0137 ppm	-0.0187 ppm
Concentration per Run 1	0.002 ppm	0.008 ppm	0.021 ppm	-0.022 ppm
Concentration per Run 2	-0.101 ppm	0.007 ppm	0.011 ppm	-0.016 ppm
Concentration per Run 3	0.209 ppm	0.004 ppm	0.010 ppm	-0.018 ppm
Concentration RSD	426.6 %	36.6 %	44.2 %	17.0 %
Concentration SD	0.2 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0495 ppm	103.1813 %	113.1932 %	104.6330 %
Concentration per Run 1	0.080 ppm	102.983 %	112.711 %	104.457 %
Concentration per Run 2	0.048 ppm	103.373 %	113.437 %	104.822 %
Concentration per Run 3	0.021 ppm	103.187 %	113.432 %	104.620 %
Concentration RSD	59.0 %	0.2 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	0.2 %	0.4 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.4110 %	-0.1214 ppm
Concentration per Run 1	100.297 %	-0.430 ppm
Concentration per Run 2	100.592 %	0.173 ppm
Concentration per Run 3	100.344 %	-0.107 ppm
Concentration RSD	0.2 %	248.4 %
Concentration SD	0.2 %	0.3 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	3 cps	3 cps	2 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-16 cps	9 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-1 cps	1 cps	11 cps	2 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	-15 cps	69 cps	18 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	72 cps	-65 cps	-94 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	0 cps	-2 cps	-3 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	13 cps	1 cps	3 cps	3 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-23 cps	44 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	0 cps	5,189 cps	8,185 cps	177,640 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,758 cps	19 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0018 ppm	0.0000 ppm	0.0002 ppm	-0.0001 ppm
Concentration per Run 1	-0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	-0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	51.0 %	321.2 %	44.5 %	984.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0009 ppm	0.0039 ppm	0.0007 ppm	0.0014 ppm
Concentration per Run 1	0.001 ppm	0.005 ppm	0.000 ppm	0.002 ppm
Concentration per Run 2	0.001 ppm	0.003 ppm	0.001 ppm	-0.001 ppm
Concentration per Run 3	0.001 ppm	0.004 ppm	0.001 ppm	0.003 ppm
Concentration RSD	10.3 %	25.5 %	84.3 %	178.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0013 ppm	-0.0001 ppm	-0.0586 ppm	-0.0013 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	-0.053 ppm	-0.005 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	-0.094 ppm	0.000 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	-0.028 ppm	0.001 ppm
Concentration RSD	32.9 %	51.0 %	57.0 %	230.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0665 ppm	-0.0014 ppm	0.0029 ppm	-0.0264 ppm
Concentration per Run 1	-0.043 ppm	-0.001 ppm	0.005 ppm	-0.011 ppm
Concentration per Run 2	-0.148 ppm	-0.001 ppm	0.000 ppm	-0.052 ppm
Concentration per Run 3	-0.008 ppm	-0.002 ppm	0.003 ppm	-0.017 ppm
Concentration RSD	109.9 %	32.9 %	87.0 %	83.6 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0300 ppm	-0.0413 ppm	-0.0126 ppm	-0.0521 ppm
Concentration per Run 1	0.036 ppm	-0.005 ppm	-0.014 ppm	-0.265 ppm
Concentration per Run 2	0.024 ppm	-0.085 ppm	-0.010 ppm	-0.054 ppm
Concentration per Run 3	0.030 ppm	-0.033 ppm	-0.013 ppm	0.163 ppm
Concentration RSD	20.5 %	98.5 %	19.1 %	410.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	-0.0007 ppm	0.0001 ppm	-0.0002 ppm	0.0018 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	0.000 ppm	0.003 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 3	-0.001 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration RSD	64.7 %	55.7 %	36.6 %	39.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0000 ppm	0.0048 ppm	0.0020 ppm	-0.0003 ppm
Concentration per Run 1	0.000 ppm	0.004 ppm	0.002 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.007 ppm	0.003 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.004 ppm	0.001 ppm	0.000 ppm
Concentration RSD	241.3 %	32.7 %	61.4 %	75.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0014 ppm	0.0003 ppm	-0.0007 ppm	-0.0007 ppm
Concentration per Run 1	0.007 ppm	0.000 ppm	-0.001 ppm	-0.001 ppm
Concentration per Run 2	0.005 ppm	0.000 ppm	-0.001 ppm	-0.001 ppm
Concentration per Run 3	-0.008 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	615.9 %	45.1 %	144.7 %	65.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0035 ppm	103.7562 %	111.9572 %	104.9737 %
Concentration per Run 1	0.005 ppm	103.606 %	112.193 %	104.768 %
Concentration per Run 2	0.000 ppm	103.669 %	111.668 %	105.083 %
Concentration per Run 3	0.005 ppm	103.994 %	112.011 %	105.070 %
Concentration RSD	76.3 %	0.2 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.2 %	0.3 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.8510 %	-0.0164 ppm
Concentration per Run 1	100.805 %	-0.042 ppm
Concentration per Run 2	100.683 %	-0.021 ppm
Concentration per Run 3	101.065 %	0.014 ppm
Concentration RSD	0.2 %	170.8 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	3 cps	3 cps	2 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-12 cps	11 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-1 cps	1 cps	9 cps	0 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	0 cps	-7 cps	68 cps	19 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2 cps	84 cps	-69 cps	-101 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-2 cps	-3 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	17 cps	2 cps	2 cps	2 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-23 cps	40 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	0 cps	5,218 cps	8,096 cps	178,218 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,836 cps	16 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0505 ppm	0.4997 ppm	0.4997 ppm	0.9509 ppm
Concentration per Run 1	2.048 ppm	0.500 ppm	0.500 ppm	0.949 ppm
Concentration per Run 2	2.053 ppm	0.500 ppm	0.501 ppm	0.953 ppm
Concentration per Run 3	2.051 ppm	0.499 ppm	0.498 ppm	0.951 ppm
Concentration RSD	0.1 %	0.2 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.4682 ppm	2.0918 ppm	0.9254 ppm	1.9222 ppm
Concentration per Run 1	0.470 ppm	2.096 ppm	0.925 ppm	1.926 ppm
Concentration per Run 2	0.467 ppm	2.095 ppm	0.927 ppm	1.928 ppm
Concentration per Run 3	0.468 ppm	2.085 ppm	0.924 ppm	1.913 ppm
Concentration RSD	0.3 %	0.3 %	0.1 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1.9358 ppm	2.8618 ppm	9.8003 ppm	9.6566 ppm
Concentration per Run 1	1.936 ppm	2.857 ppm	9.854 ppm	9.670 ppm
Concentration per Run 2	1.937 ppm	2.863 ppm	9.734 ppm	9.653 ppm
Concentration per Run 3	1.935 ppm	2.865 ppm	9.813 ppm	9.648 ppm
Concentration RSD	0.0 %	0.1 %	0.6 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.2146 ppm	1.4055 ppm	46.5338 ppm	49.9896 ppm
Concentration per Run 1	10.224 ppm	1.410 ppm	46.595 ppm	50.161 ppm
Concentration per Run 2	10.172 ppm	1.404 ppm	46.412 ppm	49.946 ppm
Concentration per Run 3	10.248 ppm	1.403 ppm	46.595 ppm	49.862 ppm
Concentration RSD	0.4 %	0.3 %	0.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.2 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	9.2059 ppm	50.5090 ppm	46.0664 ppm	48.9631 ppm
Concentration per Run 1	9.224 ppm	50.611 ppm	46.171 ppm	48.942 ppm
Concentration per Run 2	9.173 ppm	50.552 ppm	46.095 ppm	48.899 ppm
Concentration per Run 3	9.220 ppm	50.364 ppm	45.933 ppm	49.049 ppm
Concentration RSD	0.3 %	0.3 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.1 ppm	0.1 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0062 ppm	0.2003 ppm	0.9602 ppm	1.8374 ppm
Concentration per Run 1	2.014 ppm	0.201 ppm	0.961 ppm	1.837 ppm
Concentration per Run 2	2.008 ppm	0.200 ppm	0.959 ppm	1.837 ppm
Concentration per Run 3	1.997 ppm	0.201 ppm	0.960 ppm	1.837 ppm
Concentration RSD	0.4 %	0.3 %	0.1 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9527 ppm	0.9625 ppm	0.9899 ppm	0.5060 ppm
Concentration per Run 1	0.951 ppm	0.970 ppm	0.990 ppm	0.506 ppm
Concentration per Run 2	0.953 ppm	0.956 ppm	0.990 ppm	0.507 ppm
Concentration per Run 3	0.954 ppm	0.962 ppm	0.989 ppm	0.505 ppm
Concentration RSD	0.1 %	0.7 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.8778 ppm	0.9577 ppm	1.8699 ppm	1.8675 ppm
Concentration per Run 1	1.890 ppm	0.961 ppm	1.866 ppm	1.870 ppm
Concentration per Run 2	1.870 ppm	0.958 ppm	1.869 ppm	1.865 ppm
Concentration per Run 3	1.873 ppm	0.954 ppm	1.874 ppm	1.868 ppm
Concentration RSD	0.6 %	0.4 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	5.4401 ppm	89.8137 %	109.4900 %	97.4180 %
Concentration per Run 1	5.434 ppm	89.594 %	109.440 %	97.499 %
Concentration per Run 2	5.447 ppm	89.915 %	109.225 %	97.155 %
Concentration per Run 3	5.439 ppm	89.932 %	109.805 %	97.600 %
Concentration RSD	0.1 %	0.2 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.2 %	0.3 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	95.1173 %	0.0047 ppm
Concentration per Run 1	94.857 %	-0.019 ppm
Concentration per Run 2	95.120 %	0.005 ppm
Concentration per Run 3	95.375 %	0.028 ppm
Concentration RSD	0.3 %	500.3 %
Concentration SD	0.3 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,033 cps	3,488 cps	4,073 cps	8,426 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	347 cps	760 cps	8,048 cps	932 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,720 cps	14,801 cps	641 cps	5,183 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	221 cps	15,774 cps	21,538 cps	11,479 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	410 cps	24,708 cps	65,209 cps	4,758 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1,001 cps	3,942 cps	5,022 cps	885 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	51,012 cps	436 cps	1,402 cps	1,942 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	545 cps	20,278 cps	4,488 cps	1,957 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,325 cps	4,517 cps	7,917 cps	165,391 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,822 cps	22 cps

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Sample Type QC Analysis Date 10/19/2015 12:41:11 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0008 ppm	0.0001 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	-0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	109.1 %	87.6 %	166.4 %	39,532.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0001 ppm	0.0055 ppm	0.0010 ppm	0.0012 ppm
Concentration per Run 1	-0.001 ppm	0.004 ppm	0.001 ppm	-0.005 ppm
Concentration per Run 2	0.001 ppm	0.006 ppm	0.001 ppm	0.011 ppm
Concentration per Run 3	0.000 ppm	0.007 ppm	0.001 ppm	-0.003 ppm
Concentration RSD	769.8 %	34.6 %	32.5 %	758.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0012 ppm	-0.0001 ppm	-0.0405 ppm	0.0017 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	-0.054 ppm	0.002 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	-0.039 ppm	0.001 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	-0.028 ppm	0.002 ppm
Concentration RSD	31.9 %	38.6 %	32.6 %	38.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0591 ppm	-0.0023 ppm	0.0057 ppm	-0.0328 ppm
Concentration per Run 1	-0.133 ppm	-0.001 ppm	0.006 ppm	-0.034 ppm
Concentration per Run 2	0.009 ppm	-0.002 ppm	0.006 ppm	-0.037 ppm
Concentration per Run 3	-0.053 ppm	-0.004 ppm	0.005 ppm	-0.027 ppm
Concentration RSD	119.9 %	52.8 %	11.4 %	16.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.0145 ppm	-0.0208 ppm	0.0089 ppm	0.0431 ppm
Concentration per Run 1	-0.054 ppm	-0.023 ppm	0.018 ppm	0.019 ppm
Concentration per Run 2	0.012 ppm	-0.040 ppm	0.005 ppm	0.164 ppm
Concentration per Run 3	-0.002 ppm	0.000 ppm	0.005 ppm	-0.055 ppm
Concentration RSD	240.1 %	96.8 %	84.3 %	258.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0046 ppm	0.0001 ppm	-0.0002 ppm	0.0021 ppm
Concentration per Run 1	0.003 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration per Run 2	0.005 ppm	0.000 ppm	0.000 ppm	0.003 ppm
Concentration per Run 3	0.005 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration RSD	25.2 %	55.3 %	33.0 %	31.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0000 ppm	0.0042 ppm	0.0017 ppm	0.0007 ppm
Concentration per Run 1	0.000 ppm	0.003 ppm	0.001 ppm	0.001 ppm
Concentration per Run 2	0.000 ppm	0.002 ppm	0.004 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.008 ppm	0.000 ppm	0.001 ppm
Concentration RSD	42.1 %	72.9 %	120.6 %	25.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0042 ppm	0.0005 ppm	0.0027 ppm	-0.0008 ppm
Concentration per Run 1	-0.004 ppm	0.000 ppm	0.002 ppm	-0.001 ppm
Concentration per Run 2	0.010 ppm	0.001 ppm	0.003 ppm	-0.001 ppm
Concentration per Run 3	0.006 ppm	0.000 ppm	0.003 ppm	-0.001 ppm
Concentration RSD	173.3 %	32.1 %	22.4 %	21.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0076 ppm	103.5501 %	113.2303 %	105.1438 %
Concentration per Run 1	0.007 ppm	103.443 %	113.510 %	104.762 %
Concentration per Run 2	0.006 ppm	103.432 %	113.743 %	105.521 %
Concentration per Run 3	0.010 ppm	103.775 %	112.438 %	105.149 %
Concentration RSD	28.6 %	0.2 %	0.6 %	0.4 %
Concentration SD	0.0 ppm	0.2 %	0.7 %	0.4 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.4522 %	-0.0135 ppm
Concentration per Run 1	100.387 %	-0.066 ppm
Concentration per Run 2	100.440 %	0.039 ppm
Concentration per Run 3	100.530 %	-0.013 ppm
Concentration RSD	0.1 %	390.3 %
Concentration SD	0.1 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	4 cps	2 cps	3 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-9 cps	11 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-2 cps	1 cps	11 cps	2 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	0 cps	-17 cps	70 cps	18 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	95 cps	-39 cps	-93 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	-3 cps	-3 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	17 cps	2 cps	1 cps	6 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-19 cps	49 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1 cps	5,208 cps	8,188 cps	178,507 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,765 cps	17 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0952 ppm	0.0286 ppm	0.0059 ppm	0.0484 ppm
Concentration per Run 1	0.018 ppm	0.017 ppm	0.010 ppm	0.059 ppm
Concentration per Run 2	-0.228 ppm	0.030 ppm	0.005 ppm	0.043 ppm
Concentration per Run 3	-0.076 ppm	0.040 ppm	0.003 ppm	0.043 ppm
Concentration RSD	130.7 %	40.3 %	62.3 %	19.3 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0760 ppm	0.3029 ppm	0.0476 ppm	0.2983 ppm
Concentration per Run 1	0.124 ppm	0.133 ppm	0.017 ppm	0.712 ppm
Concentration per Run 2	0.130 ppm	0.287 ppm	0.083 ppm	0.166 ppm
Concentration per Run 3	-0.026 ppm	0.490 ppm	0.043 ppm	0.017 ppm
Concentration RSD	116.0 %	59.1 %	70.3 %	122.6 %
Concentration SD	0.1 ppm	0.2 ppm	0.0 ppm	0.4 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.1362 ppm	0.2276 ppm	-5.8797 ppm	2.6133 ppm
Concentration per Run 1	0.126 ppm	0.238 ppm	-4.903 ppm	2.575 ppm
Concentration per Run 2	0.161 ppm	0.226 ppm	-7.294 ppm	2.929 ppm
Concentration per Run 3	0.121 ppm	0.219 ppm	-5.442 ppm	2.336 ppm
Concentration RSD	15.7 %	4.1 %	21.3 %	11.4 %
Concentration SD	0.0 ppm	0.0 ppm	1.3 ppm	0.3 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.4693 ppm	-0.0949 ppm	6.1669 ppm	2.8550 ppm
Concentration per Run 1	9.947 ppm	-0.123 ppm	6.229 ppm	3.152 ppm
Concentration per Run 2	-2.400 ppm	-0.106 ppm	6.121 ppm	2.996 ppm
Concentration per Run 3	-6.139 ppm	-0.055 ppm	6.151 ppm	2.417 ppm
Concentration RSD	1,793.6 %	37.1 %	0.9 %	13.6 %
Concentration SD	8.4 ppm	0.0 ppm	0.1 ppm	0.4 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	-0.8591 ppm	-2.8085 ppm	10.3280 ppm	29.3076 ppm
Concentration per Run 1	-2.401 ppm	-0.868 ppm	9.754 ppm	24.891 ppm
Concentration per Run 2	-1.400 ppm	-2.782 ppm	10.234 ppm	37.038 ppm
Concentration per Run 3	1.224 ppm	-4.775 ppm	10.996 ppm	25.994 ppm
Concentration RSD	217.9 %	69.6 %	6.1 %	22.9 %
Concentration SD	1.9 ppm	2.0 ppm	0.6 ppm	6.7 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.2080 ppm	0.0024 ppm	0.0064 ppm	0.2205 ppm
Concentration per Run 1	0.218 ppm	-0.010 ppm	0.022 ppm	0.083 ppm
Concentration per Run 2	0.069 ppm	0.013 ppm	-0.003 ppm	0.407 ppm
Concentration per Run 3	0.337 ppm	0.004 ppm	0.000 ppm	0.172 ppm
Concentration RSD	64.7 %	483.4 %	208.6 %	75.9 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.2 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0659 ppm	0.1452 ppm	0.2639 ppm	0.0156 ppm
Concentration per Run 1	0.065 ppm	-0.106 ppm	0.081 ppm	-0.006 ppm
Concentration per Run 2	0.067 ppm	0.189 ppm	0.418 ppm	0.026 ppm
Concentration per Run 3	0.066 ppm	0.353 ppm	0.293 ppm	0.026 ppm
Concentration RSD	1.4 %	159.9 %	64.6 %	117.7 %
Concentration SD	0.0 ppm	0.2 ppm	0.2 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.3537 ppm	0.0559 ppm	1.3719 ppm	-0.0409 ppm
Concentration per Run 1	1.380 ppm	0.057 ppm	1.369 ppm	-0.047 ppm
Concentration per Run 2	-1.007 ppm	0.050 ppm	1.421 ppm	-0.024 ppm
Concentration per Run 3	0.688 ppm	0.061 ppm	1.325 ppm	-0.051 ppm
Concentration RSD	347.3 %	10.3 %	3.5 %	36.2 %
Concentration SD	1.2 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	20.7195 ppm	103.8034 %	114.8204 %	105.9666 %
Concentration per Run 1	20.952 ppm	103.843 %	112.805 %	105.566 %
Concentration per Run 2	20.968 ppm	103.984 %	115.897 %	105.999 %
Concentration per Run 3	20.238 ppm	103.584 %	115.759 %	106.334 %
Concentration RSD	2.0 %	0.2 %	1.5 %	0.4 %
Concentration SD	0.4 ppm	0.2 %	1.7 %	0.4 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.4153 %	-2.0450 ppm
Concentration per Run 1	101.250 %	-1.327 ppm
Concentration per Run 2	101.535 %	-2.245 ppm
Concentration per Run 3	101.461 %	-2.563 ppm
Concentration RSD	0.1 %	31.4 %
Concentration SD	0.1 %	0.6 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	6 cps	2 cps	7 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	0 cps	-14 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-1 cps	14 cps	10 cps	16 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	-2 cps	99 cps	33 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	0 cps	92 cps	107 cps	-67 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	-4 cps	-2 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	59 cps	0 cps	3 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	-17 cps	79 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	55 cps	5,220 cps	8,303 cps	179,904 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,936 cps	15 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	89.6906 ppm	90.9668 ppm	89.8589 ppm
Concentration per Run 1	89.077 ppm	90.852 ppm	89.715 ppm
Concentration per Run 2	90.165 ppm	91.125 ppm	90.060 ppm
Concentration per Run 3	89.829 ppm	90.923 ppm	89.802 ppm
Concentration RSD	0.6 %	0.2 %	0.2 %
Concentration SD	0.6 ppm	0.1 ppm	0.2 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	83.3451 ppm	85.3323 ppm	93.4515 ppm
Concentration per Run 1	83.557 ppm	85.216 ppm	93.355 ppm
Concentration per Run 2	83.293 ppm	85.277 ppm	93.548 ppm
Concentration per Run 3	83.185 ppm	85.504 ppm	93.452 ppm
Concentration RSD	0.2 %	0.2 %	0.1 %
Concentration SD	0.2 ppm	0.2 ppm	0.1 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	84.3510 ppm	87.5002 ppm	86.3918 ppm
Concentration per Run 1	84.399 ppm	87.369 ppm	86.274 ppm
Concentration per Run 2	84.169 ppm	87.326 ppm	86.269 ppm
Concentration per Run 3	84.485 ppm	87.805 ppm	86.633 ppm
Concentration RSD	0.2 %	0.3 %	0.2 %
Concentration SD	0.2 ppm	0.3 ppm	0.2 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	85.2588 ppm	886.2492 ppm	859.2775 ppm
Concentration per Run 1	85.403 ppm	884.555 ppm	858.569 ppm
Concentration per Run 2	85.174 ppm	890.474 ppm	860.863 ppm
Concentration per Run 3	85.199 ppm	883.718 ppm	858.400 ppm
Concentration RSD	0.1 %	0.4 %	0.2 %
Concentration SD	0.1 ppm	3.7 ppm	1.4 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	907.6849 ppm	86.5655 ppm	858.2245 ppm
Concentration per Run 1	911.486 ppm	86.576 ppm	858.132 ppm
Concentration per Run 2	900.481 ppm	86.562 ppm	861.375 ppm
Concentration per Run 3	911.087 ppm	86.558 ppm	855.166 ppm
Concentration RSD	0.7 %	0.0 %	0.4 %
Concentration SD	6.2 ppm	0.0 ppm	3.1 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	917.3826 ppm	825.6232 ppm	923.0328 ppm
Concentration per Run 1	915.812 ppm	831.393 ppm	919.600 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	915.585 ppm	827.547 ppm	922.384 ppm
Concentration per Run 3	920.751 ppm	817.929 ppm	927.115 ppm
Concentration RSD	0.3 %	0.8 %	0.4 %
Concentration SD	2.9 ppm	6.9 ppm	3.8 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	861.6322 ppm	934.0312 ppm	92.3355 ppm
Concentration per Run 1	861.963 ppm	944.296 ppm	92.148 ppm
Concentration per Run 2	861.141 ppm	919.702 ppm	92.368 ppm
Concentration per Run 3	861.792 ppm	938.096 ppm	92.491 ppm
Concentration RSD	0.1 %	1.4 %	0.2 %
Concentration SD	0.4 ppm	12.8 ppm	0.2 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	89.3818 ppm	86.0926 ppm	86.0477 ppm
Concentration per Run 1	89.331 ppm	86.002 ppm	86.166 ppm
Concentration per Run 2	89.555 ppm	86.093 ppm	85.438 ppm
Concentration per Run 3	89.259 ppm	86.183 ppm	86.539 ppm
Concentration RSD	0.2 %	0.1 %	0.7 %
Concentration SD	0.2 ppm	0.1 ppm	0.6 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	84.9398 ppm	86.3198 ppm	86.4296 ppm
Concentration per Run 1	84.885 ppm	86.921 ppm	86.646 ppm
Concentration per Run 2	85.019 ppm	86.124 ppm	86.344 ppm
Concentration per Run 3	84.916 ppm	85.915 ppm	86.299 ppm
Concentration RSD	0.1 %	0.6 %	0.2 %
Concentration SD	0.1 ppm	0.5 ppm	0.2 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	90.2091 ppm	85.6391 ppm	87.0246 ppm
Concentration per Run 1	90.355 ppm	86.043 ppm	87.106 ppm
Concentration per Run 2	90.345 ppm	85.312 ppm	86.843 ppm
Concentration per Run 3	89.927 ppm	85.563 ppm	87.125 ppm
Concentration RSD	0.3 %	0.4 %	0.2 %
Concentration SD	0.2 ppm	0.4 ppm	0.2 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	85.2850 ppm	86.0735 ppm	995.1226 ppm
Concentration per Run 1	85.719 ppm	86.163 ppm	994.059 ppm
Concentration per Run 2	85.113 ppm	85.753 ppm	995.006 ppm
Concentration per Run 3	85.023 ppm	86.304 ppm	996.303 ppm
Concentration RSD	0.4 %	0.3 %	0.1 %
Concentration SD	0.4 ppm	0.3 ppm	1.1 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	95.8457 %	114.3008 %	103.0665 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	96.095 %	114.408 %	103.082 %
Concentration per Run 2	95.754 %	114.000 %	102.876 %
Concentration per Run 3	95.689 %	114.495 %	103.242 %
Concentration RSD	0.2 %	0.2 %	0.2 %
Concentration SD	0.2 %	0.3 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	98.7845 %	-1.0851 ppm
Concentration per Run 1	98.977 %	-1.042 ppm
Concentration per Run 2	98.626 %	-2.260 ppm
Concentration per Run 3	98.751 %	0.047 ppm
Concentration RSD	0.2 %	106.3 %
Concentration SD	0.2 %	1.2 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	515 cps	7,250 cps	8,365 cps	8,595 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	745 cps	388 cps	8,537 cps	493 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1,947 cps	5,038 cps	665 cps	5,296 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	225 cps	11,159 cps	4,615 cps	2,440 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	422 cps	5,270 cps	13,965 cps	965 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	527 cps	20,220 cps	5,286 cps	485 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	52,930 cps	449 cps	1,405 cps	3,953 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	286 cps	21,159 cps	2,403 cps	1,031 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2,770 cps	4,820 cps	8,265 cps	174,980 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,470 cps	17 cps

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LCSD WG822515

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	91.6380 ppm	92.6200 ppm	91.6278 ppm
Concentration per Run 1	91.451 ppm	92.498 ppm	91.677 ppm
Concentration per Run 2	91.639 ppm	92.544 ppm	91.537 ppm
Concentration per Run 3	91.824 ppm	92.818 ppm	91.670 ppm
Concentration RSD	0.2 %	0.2 %	0.1 %
Concentration SD	0.2 ppm	0.2 ppm	0.1 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	84.5671 ppm	86.9745 ppm	95.3627 ppm
Concentration per Run 1	84.760 ppm	87.327 ppm	95.143 ppm
Concentration per Run 2	84.546 ppm	86.827 ppm	95.280 ppm
Concentration per Run 3	84.395 ppm	86.770 ppm	95.666 ppm
Concentration RSD	0.2 %	0.4 %	0.3 %
Concentration SD	0.2 ppm	0.3 ppm	0.3 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	86.2359 ppm	88.9649 ppm	87.8204 ppm
Concentration per Run 1	86.091 ppm	88.611 ppm	87.939 ppm
Concentration per Run 2	86.526 ppm	88.626 ppm	87.768 ppm
Concentration per Run 3	86.090 ppm	89.657 ppm	87.754 ppm
Concentration RSD	0.3 %	0.7 %	0.1 %
Concentration SD	0.3 ppm	0.6 ppm	0.1 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	86.8076 ppm	903.8168 ppm	871.6026 ppm
Concentration per Run 1	86.978 ppm	897.221 ppm	873.265 ppm
Concentration per Run 2	86.824 ppm	911.771 ppm	868.700 ppm
Concentration per Run 3	86.621 ppm	902.458 ppm	872.843 ppm
Concentration RSD	0.2 %	0.8 %	0.3 %
Concentration SD	0.2 ppm	7.4 ppm	2.5 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	924.2313 ppm	88.2137 ppm	871.4567 ppm
Concentration per Run 1	925.209 ppm	88.573 ppm	871.217 ppm
Concentration per Run 2	926.787 ppm	88.207 ppm	867.375 ppm
Concentration per Run 3	920.698 ppm	87.861 ppm	875.778 ppm
Concentration RSD	0.3 %	0.4 %	0.5 %
Concentration SD	3.2 ppm	0.4 ppm	4.2 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	933.7909 ppm	832.9797 ppm	933.4172 ppm
Concentration per Run 1	937.168 ppm	835.688 ppm	931.663 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	929.536 ppm	827.097 ppm	931.980 ppm
Concentration per Run 3	934.669 ppm	836.153 ppm	936.608 ppm
Concentration RSD	0.4 %	0.6 %	0.3 %
Concentration SD	3.9 ppm	5.1 ppm	2.8 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	881.1145 ppm	951.7618 ppm	94.0501 ppm
Concentration per Run 1	881.429 ppm	957.560 ppm	94.215 ppm
Concentration per Run 2	882.575 ppm	958.780 ppm	93.908 ppm
Concentration per Run 3	879.339 ppm	938.945 ppm	94.028 ppm
Concentration RSD	0.2 %	1.2 %	0.2 %
Concentration SD	1.6 ppm	11.1 ppm	0.2 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	90.5492 ppm	87.5651 ppm	87.1666 ppm
Concentration per Run 1	90.711 ppm	87.628 ppm	87.578 ppm
Concentration per Run 2	90.341 ppm	87.569 ppm	87.115 ppm
Concentration per Run 3	90.595 ppm	87.499 ppm	86.808 ppm
Concentration RSD	0.2 %	0.1 %	0.4 %
Concentration SD	0.2 ppm	0.1 ppm	0.4 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	86.1799 ppm	87.7266 ppm	87.8210 ppm
Concentration per Run 1	86.207 ppm	87.759 ppm	88.430 ppm
Concentration per Run 2	86.316 ppm	87.157 ppm	87.642 ppm
Concentration per Run 3	86.016 ppm	88.264 ppm	87.392 ppm
Concentration RSD	0.2 %	0.6 %	0.6 %
Concentration SD	0.2 ppm	0.6 ppm	0.5 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	92.1259 ppm	86.2750 ppm	88.4415 ppm
Concentration per Run 1	91.954 ppm	86.791 ppm	88.539 ppm
Concentration per Run 2	92.128 ppm	85.754 ppm	88.346 ppm
Concentration per Run 3	92.297 ppm	86.281 ppm	88.439 ppm
Concentration RSD	0.2 %	0.6 %	0.1 %
Concentration SD	0.2 ppm	0.5 ppm	0.1 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	86.3475 ppm	87.5185 ppm	1,017.9793 ppm
Concentration per Run 1	86.666 ppm	87.573 ppm	1,018.111 ppm
Concentration per Run 2	86.093 ppm	87.652 ppm	1,017.812 ppm
Concentration per Run 3	86.283 ppm	87.330 ppm	1,018.015 ppm
Concentration RSD	0.3 %	0.2 %	0.0 %
Concentration SD	0.3 ppm	0.2 ppm	0.2 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	95.9087 %	115.4975 %	103.0589 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	95.944 %	115.365 %	102.987 %
Concentration per Run 2	95.899 %	115.555 %	103.116 %
Concentration per Run 3	95.884 %	115.572 %	103.074 %
Concentration RSD	0.0 %	0.1 %	0.1 %
Concentration SD	0.0 %	0.1 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	98.7305 %	0.7533 ppm
Concentration per Run 1	98.879 %	2.837 ppm
Concentration per Run 2	98.704 %	1.945 ppm
Concentration per Run 3	98.609 %	-2.522 ppm
Concentration RSD	0.1 %	381.2 %
Concentration SD	0.1 %	2.9 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	497 cps	6,976 cps	8,060 cps	8,245 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	718 cps	374 cps	8,251 cps	479 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1,872 cps	4,847 cps	649 cps	5,132 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	219 cps	10,864 cps	4,480 cps	2,373 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	407 cps	5,096 cps	13,641 cps	935 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	507 cps	19,569 cps	5,086 cps	465 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	50,771 cps	436 cps	1,364 cps	3,815 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	276 cps	20,542 cps	2,301 cps	991 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2,678 cps	4,823 cps	8,352 cps	174,967 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,461 cps	23 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	5.2557 ppm	62.4567 ppm	0.3010 ppm
Concentration per Run 1	5.213 ppm	62.400 ppm	0.315 ppm
Concentration per Run 2	5.343 ppm	62.451 ppm	0.287 ppm
Concentration per Run 3	5.210 ppm	62.519 ppm	0.301 ppm
Concentration RSD	1.4 %	0.1 %	4.5 %
Concentration SD	0.1 ppm	0.1 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	6.7885 ppm	5.2423 ppm	0.9233 ppm
Concentration per Run 1	6.797 ppm	5.181 ppm	1.096 ppm
Concentration per Run 2	6.780 ppm	5.399 ppm	0.894 ppm
Concentration per Run 3	6.788 ppm	5.146 ppm	0.780 ppm
Concentration RSD	0.1 %	2.6 %	17.3 %
Concentration SD	0.0 ppm	0.1 ppm	0.2 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	-0.0424 ppm	9.8002 ppm	6.5590 ppm
Concentration per Run 1	-0.063 ppm	10.225 ppm	6.537 ppm
Concentration per Run 2	-0.041 ppm	9.249 ppm	6.608 ppm
Concentration per Run 3	-0.023 ppm	9.926 ppm	6.532 ppm
Concentration RSD	46.9 %	5.1 %	0.7 %
Concentration SD	0.0 ppm	0.5 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	28.1331 ppm	4,460.3286 ppm	14,095.2311 ppm
Concentration per Run 1	28.103 ppm	4,470.302 ppm	14,138.464 ppm
Concentration per Run 2	28.154 ppm	4,450.801 ppm	14,110.908 ppm
Concentration per Run 3	28.142 ppm	4,459.883 ppm	14,036.322 ppm
Concentration RSD	0.1 %	0.2 %	0.4 %
Concentration SD	0.0 ppm	9.8 ppm	52.8 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	15,364.8824 ppm	4.9759 ppm	6,494.8659 ppm
Concentration per Run 1	15,393.875 ppm	5.017 ppm	6,516.607 ppm
Concentration per Run 2	15,422.378 ppm	4.960 ppm	6,500.970 ppm
Concentration per Run 3	15,278.394 ppm	4.951 ppm	6,467.021 ppm
Concentration RSD	0.5 %	0.7 %	0.4 %
Concentration SD	76.2 ppm	0.0 ppm	25.4 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	7,032.0707 ppm	3,315.1899 ppm	212.6587 ppm
Concentration per Run 1	7,063.561 ppm	3,314.232 ppm	211.541 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	7,032.724 ppm	3,334.652 ppm	211.843 ppm
Concentration per Run 3	6,999.928 ppm	3,296.686 ppm	214.592 ppm
Concentration RSD	0.5 %	0.6 %	0.8 %
Concentration SD	31.8 ppm	19.0 ppm	1.7 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	48.3963 ppm	86.2485 ppm	0.2206 ppm
Concentration per Run 1	48.828 ppm	87.521 ppm	0.331 ppm
Concentration per Run 2	47.582 ppm	89.197 ppm	0.232 ppm
Concentration per Run 3	48.780 ppm	82.028 ppm	0.099 ppm
Concentration RSD	1.5 %	4.3 %	52.8 %
Concentration SD	0.7 ppm	3.7 ppm	0.1 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.3020 ppm	2.7128 ppm	0.0922 ppm
Concentration per Run 1	0.300 ppm	2.716 ppm	-0.152 ppm
Concentration per Run 2	0.306 ppm	2.739 ppm	0.283 ppm
Concentration per Run 3	0.300 ppm	2.683 ppm	0.145 ppm
Concentration RSD	1.2 %	1.0 %	241.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.2 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	158.4979 ppm	15.8156 ppm	36.3050 ppm
Concentration per Run 1	158.391 ppm	15.770 ppm	36.553 ppm
Concentration per Run 2	158.311 ppm	16.008 ppm	36.078 ppm
Concentration per Run 3	158.792 ppm	15.669 ppm	36.283 ppm
Concentration RSD	0.2 %	1.1 %	0.7 %
Concentration SD	0.3 ppm	0.2 ppm	0.2 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.5109 ppm	0.8738 ppm	13.7387 ppm
Concentration per Run 1	0.488 ppm	1.245 ppm	13.759 ppm
Concentration per Run 2	0.513 ppm	0.546 ppm	13.742 ppm
Concentration per Run 3	0.532 ppm	0.831 ppm	13.715 ppm
Concentration RSD	4.3 %	40.2 %	0.2 %
Concentration SD	0.0 ppm	0.4 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	1,274.0518 ppm	0.1621 ppm	102.2984 ppm
Concentration per Run 1	1,275.149 ppm	0.209 ppm	101.956 ppm
Concentration per Run 2	1,272.361 ppm	0.182 ppm	102.452 ppm
Concentration per Run 3	1,274.645 ppm	0.095 ppm	102.487 ppm
Concentration RSD	0.1 %	36.9 %	0.3 %
Concentration SD	1.5 ppm	0.1 ppm	0.3 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	89.1830 %	116.3521 %	101.2079 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	89.337 %	116.348 %	101.110 %
Concentration per Run 2	89.166 %	116.146 %	101.090 %
Concentration per Run 3	89.047 %	116.563 %	101.424 %
Concentration RSD	0.2 %	0.2 %	0.2 %
Concentration SD	0.1 %	0.2 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	97.6700 %	25.9704 ppm
Concentration per Run 1	97.916 %	25.188 ppm
Concentration per Run 2	97.649 %	24.393 ppm
Concentration per Run 3	97.445 %	28.330 ppm
Concentration RSD	0.2 %	8.0 %
Concentration SD	0.2 %	2.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	26 cps	4,744 cps	28 cps	665 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	39 cps	3 cps	-22 cps	64 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	129 cps	1,585 cps	3,232 cps	85,200 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	3,716 cps	638 cps	33,828 cps	18,176 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1,661 cps	1,275 cps	719 cps	-4 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	63 cps	148 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	93,446 cps	81 cps	578 cps	25 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	5 cps	3,251 cps	33,420 cps	4 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	271 cps	4,485 cps	8,414 cps	171,825 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,273 cps	95 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	4.6574 ppm	65.3093 ppm	0.3451 ppm
Concentration per Run 1	4.529 ppm	65.232 ppm	0.259 ppm
Concentration per Run 2	4.904 ppm	65.106 ppm	0.423 ppm
Concentration per Run 3	4.539 ppm	65.590 ppm	0.353 ppm
Concentration RSD	4.6 %	0.4 %	24.0 %
Concentration SD	0.2 ppm	0.3 ppm	0.1 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	6.9454 ppm	5.4247 ppm	2.3629 ppm
Concentration per Run 1	7.052 ppm	5.581 ppm	1.616 ppm
Concentration per Run 2	6.678 ppm	5.566 ppm	1.661 ppm
Concentration per Run 3	7.105 ppm	5.127 ppm	3.812 ppm
Concentration RSD	3.4 %	4.8 %	53.1 %
Concentration SD	0.2 ppm	0.3 ppm	1.3 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.2564 ppm	9.4987 ppm	7.6659 ppm
Concentration per Run 1	0.349 ppm	10.795 ppm	7.617 ppm
Concentration per Run 2	0.397 ppm	6.519 ppm	7.488 ppm
Concentration per Run 3	0.023 ppm	11.182 ppm	7.893 ppm
Concentration RSD	79.5 %	27.2 %	2.7 %
Concentration SD	0.2 ppm	2.6 ppm	0.2 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	30.3864 ppm	4,573.8607 ppm	14,979.7652 ppm
Concentration per Run 1	30.431 ppm	4,537.178 ppm	15,041.412 ppm
Concentration per Run 2	30.281 ppm	4,609.603 ppm	14,946.256 ppm
Concentration per Run 3	30.447 ppm	4,574.802 ppm	14,951.627 ppm
Concentration RSD	0.3 %	0.8 %	0.4 %
Concentration SD	0.1 ppm	36.2 ppm	53.5 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	15,917.8835 ppm	4.7874 ppm	6,842.4439 ppm
Concentration per Run 1	15,903.372 ppm	4.874 ppm	6,885.833 ppm
Concentration per Run 2	15,933.504 ppm	5.388 ppm	6,809.921 ppm
Concentration per Run 3	15,916.775 ppm	4.100 ppm	6,831.577 ppm
Concentration RSD	0.1 %	13.5 %	0.6 %
Concentration SD	15.1 ppm	0.6 ppm	39.1 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	7,366.0272 ppm	3,442.2817 ppm	201.3014 ppm
Concentration per Run 1	7,359.612 ppm	3,441.693 ppm	199.062 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	7,367.024 ppm	3,429.044 ppm	209.410 ppm
Concentration per Run 3	7,371.445 ppm	3,456.108 ppm	195.432 ppm
Concentration RSD	0.1 %	0.4 %	3.6 %
Concentration SD	6.0 ppm	13.5 ppm	7.3 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	74.6420 ppm	167.9271 ppm	0.1325 ppm
Concentration per Run 1	76.522 ppm	177.443 ppm	0.382 ppm
Concentration per Run 2	73.860 ppm	169.313 ppm	0.106 ppm
Concentration per Run 3	73.544 ppm	157.026 ppm	-0.090 ppm
Concentration RSD	2.2 %	6.1 %	179.1 %
Concentration SD	1.6 ppm	10.3 ppm	0.2 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.3598 ppm	2.7031 ppm	0.2347 ppm
Concentration per Run 1	0.449 ppm	2.628 ppm	-0.270 ppm
Concentration per Run 2	0.372 ppm	2.778 ppm	1.008 ppm
Concentration per Run 3	0.259 ppm	2.704 ppm	-0.034 ppm
Concentration RSD	26.6 %	2.8 %	289.9 %
Concentration SD	0.1 ppm	0.1 ppm	0.7 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	165.6412 ppm	16.1851 ppm	38.1952 ppm
Concentration per Run 1	165.810 ppm	14.494 ppm	37.006 ppm
Concentration per Run 2	165.555 ppm	17.462 ppm	38.821 ppm
Concentration per Run 3	165.559 ppm	16.599 ppm	38.758 ppm
Concentration RSD	0.1 %	9.4 %	2.7 %
Concentration SD	0.1 ppm	1.5 ppm	1.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.5240 ppm	2.3596 ppm	14.3957 ppm
Concentration per Run 1	0.536 ppm	2.077 ppm	14.298 ppm
Concentration per Run 2	0.583 ppm	2.822 ppm	14.551 ppm
Concentration per Run 3	0.453 ppm	2.179 ppm	14.338 ppm
Concentration RSD	12.5 %	17.1 %	0.9 %
Concentration SD	0.1 ppm	0.4 ppm	0.1 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	1,287.8401 ppm	-0.0707 ppm	118.8558 ppm
Concentration per Run 1	1,288.823 ppm	-0.217 ppm	118.961 ppm
Concentration per Run 2	1,287.053 ppm	0.002 ppm	119.788 ppm
Concentration per Run 3	1,287.645 ppm	0.003 ppm	117.818 ppm
Concentration RSD	0.1 %	179.3 %	0.8 %
Concentration SD	0.9 ppm	0.1 ppm	1.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	98.0967 %	115.1323 %	103.9927 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	97.987 %	115.103 %	104.132 %
Concentration per Run 2	98.558 %	115.846 %	104.129 %
Concentration per Run 3	97.745 %	114.449 %	103.717 %
Concentration RSD	0.4 %	0.6 %	0.2 %
Concentration SD	0.4 %	0.7 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.0230 %	15.6322 ppm
Concentration per Run 1	99.989 %	20.521 ppm
Concentration per Run 2	100.339 %	2.925 ppm
Concentration per Run 3	99.741 %	23.451 ppm
Concentration RSD	0.3 %	71.0 %
Concentration SD	0.3 %	11.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	2 cps	1,019 cps	8 cps	142 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	7 cps	1 cps	-14 cps	21 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	30 cps	352 cps	667 cps	17,920 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	763 cps	129 cps	7,107 cps	3,788 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	341 cps	326 cps	183 cps	-62 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	11 cps	31 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	20,083 cps	16 cps	120 cps	8 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	650 cps	6,975 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	64 cps	4,933 cps	8,325 cps	176,553 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,689 cps	29 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	100.6769 ppm	153.6290 ppm	95.0195 ppm
Concentration per Run 1	100.556 ppm	153.511 ppm	95.049 ppm
Concentration per Run 2	101.136 ppm	153.863 ppm	95.034 ppm
Concentration per Run 3	100.339 ppm	153.513 ppm	94.976 ppm
Concentration RSD	0.4 %	0.1 %	0.0 %
Concentration SD	0.4 ppm	0.2 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	93.6237 ppm	96.2986 ppm	99.9698 ppm
Concentration per Run 1	93.865 ppm	95.861 ppm	100.175 ppm
Concentration per Run 2	93.570 ppm	96.623 ppm	99.437 ppm
Concentration per Run 3	93.437 ppm	96.411 ppm	100.298 ppm
Concentration RSD	0.2 %	0.4 %	0.5 %
Concentration SD	0.2 ppm	0.4 ppm	0.5 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	88.0864 ppm	99.7280 ppm	99.7361 ppm
Concentration per Run 1	88.250 ppm	97.661 ppm	99.412 ppm
Concentration per Run 2	87.876 ppm	96.731 ppm	99.935 ppm
Concentration per Run 3	88.133 ppm	104.792 ppm	99.862 ppm
Concentration RSD	0.2 %	4.4 %	0.3 %
Concentration SD	0.2 ppm	4.4 ppm	0.3 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	113.7896 ppm	4,604.1805 ppm	14,325.1225 ppm
Concentration per Run 1	113.668 ppm	4,529.823 ppm	14,079.027 ppm
Concentration per Run 2	113.783 ppm	4,450.288 ppm	13,899.826 ppm
Concentration per Run 3	113.919 ppm	4,832.430 ppm	14,996.514 ppm
Concentration RSD	0.1 %	4.4 %	4.1 %
Concentration SD	0.1 ppm	201.6 ppm	588.3 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	15,592.1156 ppm	98.0229 ppm	7,388.9456 ppm
Concentration per Run 1	15,310.083 ppm	96.317 ppm	7,261.600 ppm
Concentration per Run 2	15,124.558 ppm	95.098 ppm	7,169.321 ppm
Concentration per Run 3	16,341.706 ppm	102.654 ppm	7,735.917 ppm
Concentration RSD	4.2 %	4.1 %	4.1 %
Concentration SD	655.8 ppm	4.1 ppm	304.0 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	8,016.6964 ppm	4,189.7099 ppm	1,193.5269 ppm
Concentration per Run 1	7,881.769 ppm	4,118.812 ppm	1,172.757 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	7,774.854 ppm	4,059.618 ppm	1,161.547 ppm
Concentration per Run 3	8,393.466 ppm	4,390.700 ppm	1,246.277 ppm
Concentration RSD	4.1 %	4.2 %	3.9 %
Concentration SD	330.6 ppm	176.6 ppm	46.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	944.7772 ppm	1,032.2166 ppm	93.9437 ppm
Concentration per Run 1	930.118 ppm	1,006.431 ppm	94.408 ppm
Concentration per Run 2	917.528 ppm	1,012.444 ppm	94.151 ppm
Concentration per Run 3	986.685 ppm	1,077.775 ppm	93.272 ppm
Concentration RSD	3.9 %	3.8 %	0.6 %
Concentration SD	36.8 ppm	39.6 ppm	0.6 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	94.7195 ppm	96.8095 ppm	90.4249 ppm
Concentration per Run 1	92.875 ppm	96.694 ppm	90.045 ppm
Concentration per Run 2	91.848 ppm	96.893 ppm	90.434 ppm
Concentration per Run 3	99.435 ppm	96.842 ppm	90.795 ppm
Concentration RSD	4.3 %	0.1 %	0.4 %
Concentration SD	4.1 ppm	0.1 ppm	0.4 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	243.6844 ppm	108.4776 ppm	123.9862 ppm
Concentration per Run 1	244.515 ppm	106.879 ppm	121.350 ppm
Concentration per Run 2	243.371 ppm	104.623 ppm	120.312 ppm
Concentration per Run 3	243.167 ppm	113.931 ppm	130.296 ppm
Concentration RSD	0.3 %	4.5 %	4.4 %
Concentration SD	0.7 ppm	4.9 ppm	5.5 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	91.5575 ppm	88.8932 ppm	104.2561 ppm
Concentration per Run 1	91.471 ppm	86.739 ppm	102.133 ppm
Concentration per Run 2	91.795 ppm	87.157 ppm	101.252 ppm
Concentration per Run 3	91.406 ppm	92.784 ppm	109.383 ppm
Concentration RSD	0.2 %	3.8 %	4.3 %
Concentration SD	0.2 ppm	3.4 ppm	4.5 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	1,366.6921 ppm	82.7850 ppm	99.9605 ppm
Concentration per Run 1	1,366.746 ppm	82.474 ppm	99.776 ppm
Concentration per Run 2	1,366.649 ppm	83.012 ppm	99.958 ppm
Concentration per Run 3	1,366.682 ppm	82.868 ppm	100.148 ppm
Concentration RSD	0.0 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.3 ppm	0.2 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	86.6549 %	114.7562 %	99.8378 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	86.901 %	116.210 %	99.676 %
Concentration per Run 2	86.519 %	117.545 %	99.942 %
Concentration per Run 3	86.544 %	110.514 %	99.895 %
Concentration RSD	0.2 %	3.3 %	0.1 %
Concentration SD	0.2 %	3.7 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	96.0973 %	26.8003 ppm
Concentration per Run 1	96.207 %	26.047 ppm
Concentration per Run 2	95.980 %	26.756 ppm
Concentration per Run 3	96.105 %	27.598 ppm
Concentration RSD	0.1 %	2.9 %
Concentration SD	0.1 %	0.8 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	542 cps	11,476 cps	8,292 cps	9,012 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	733 cps	389 cps	8,322 cps	542 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1,959 cps	6,303 cps	3,287 cps	85,326 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	3,716 cps	12,213 cps	37,914 cps	20,415 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2,068 cps	6,561 cps	14,804 cps	1,037 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	502 cps	20,711 cps	5,179 cps	444 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	141,714 cps	546 cps	1,949 cps	3,761 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	287 cps	24,506 cps	35,362 cps	930 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	260 cps	4,358 cps	8,298 cps	169,499 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,995 cps	98 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	86.7725 ppm	135.7545 ppm	83.3719 ppm
Concentration per Run 1	86.189 ppm	135.211 ppm	82.956 ppm
Concentration per Run 2	86.685 ppm	136.141 ppm	83.626 ppm
Concentration per Run 3	87.443 ppm	135.912 ppm	83.533 ppm
Concentration RSD	0.7 %	0.4 %	0.4 %
Concentration SD	0.6 ppm	0.5 ppm	0.4 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	80.5996 ppm	84.1561 ppm	82.5726 ppm
Concentration per Run 1	80.953 ppm	83.777 ppm	82.387 ppm
Concentration per Run 2	80.357 ppm	84.135 ppm	82.200 ppm
Concentration per Run 3	80.489 ppm	84.556 ppm	83.130 ppm
Concentration RSD	0.4 %	0.5 %	0.6 %
Concentration SD	0.3 ppm	0.4 ppm	0.5 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	79.0912 ppm	87.3911 ppm	86.8056 ppm
Concentration per Run 1	79.505 ppm	86.823 ppm	86.495 ppm
Concentration per Run 2	78.760 ppm	87.269 ppm	86.902 ppm
Concentration per Run 3	79.008 ppm	88.081 ppm	87.020 ppm
Concentration RSD	0.5 %	0.7 %	0.3 %
Concentration SD	0.4 ppm	0.6 ppm	0.3 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	98.5642 ppm	4,736.6225 ppm	12,978.8646 ppm
Concentration per Run 1	97.862 ppm	4,736.828 ppm	12,966.657 ppm
Concentration per Run 2	99.017 ppm	4,729.722 ppm	12,965.686 ppm
Concentration per Run 3	98.814 ppm	4,743.318 ppm	13,004.251 ppm
Concentration RSD	0.6 %	0.1 %	0.2 %
Concentration SD	0.6 ppm	6.8 ppm	22.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	14,089.0678 ppm	84.9068 ppm	6,520.4961 ppm
Concentration per Run 1	14,071.601 ppm	84.969 ppm	6,506.228 ppm
Concentration per Run 2	14,085.001 ppm	84.918 ppm	6,508.871 ppm
Concentration per Run 3	14,110.602 ppm	84.834 ppm	6,546.389 ppm
Concentration RSD	0.1 %	0.1 %	0.3 %
Concentration SD	19.8 ppm	0.1 ppm	22.5 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	7,068.7352 ppm	4,106.4016 ppm	978.2727 ppm
Concentration per Run 1	7,067.221 ppm	4,091.829 ppm	978.679 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	7,056.784 ppm	4,104.879 ppm	977.427 ppm
Concentration per Run 3	7,082.200 ppm	4,122.497 ppm	978.711 ppm
Concentration RSD	0.2 %	0.4 %	0.1 %
Concentration SD	12.8 ppm	15.4 ppm	0.7 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	825.9667 ppm	908.5338 ppm	77.2835 ppm
Concentration per Run 1	825.694 ppm	913.831 ppm	77.045 ppm
Concentration per Run 2	826.288 ppm	906.032 ppm	77.534 ppm
Concentration per Run 3	825.918 ppm	905.738 ppm	77.272 ppm
Concentration RSD	0.0 %	0.5 %	0.3 %
Concentration SD	0.3 ppm	4.6 ppm	0.2 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	82.2270 ppm	83.7738 ppm	78.5818 ppm
Concentration per Run 1	82.357 ppm	83.381 ppm	78.246 ppm
Concentration per Run 2	81.930 ppm	84.044 ppm	78.853 ppm
Concentration per Run 3	82.394 ppm	83.897 ppm	78.647 ppm
Concentration RSD	0.3 %	0.4 %	0.4 %
Concentration SD	0.3 ppm	0.3 ppm	0.3 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	197.4548 ppm	92.2215 ppm	82.8406 ppm
Concentration per Run 1	198.646 ppm	92.428 ppm	82.937 ppm
Concentration per Run 2	196.973 ppm	92.105 ppm	82.744 ppm
Concentration per Run 3	196.746 ppm	92.131 ppm	82.841 ppm
Concentration RSD	0.5 %	0.2 %	0.1 %
Concentration SD	1.0 ppm	0.2 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	79.9012 ppm	75.6962 ppm	88.9721 ppm
Concentration per Run 1	79.605 ppm	74.368 ppm	89.178 ppm
Concentration per Run 2	80.072 ppm	77.003 ppm	88.923 ppm
Concentration per Run 3	80.026 ppm	75.717 ppm	88.816 ppm
Concentration RSD	0.3 %	1.7 %	0.2 %
Concentration SD	0.3 ppm	1.3 ppm	0.2 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	968.4045 ppm	76.2552 ppm	1,000.0444 ppm
Concentration per Run 1	971.582 ppm	75.855 ppm	995.408 ppm
Concentration per Run 2	967.089 ppm	76.442 ppm	1,000.608 ppm
Concentration per Run 3	966.543 ppm	76.469 ppm	1,004.118 ppm
Concentration RSD	0.3 %	0.5 %	0.4 %
Concentration SD	2.8 ppm	0.3 ppm	4.4 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	88.3518 %	116.1906 %	100.5579 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	88.628 %	116.531 %	100.218 %
Concentration per Run 2	88.088 %	116.170 %	100.760 %
Concentration per Run 3	88.339 %	115.870 %	100.696 %
Concentration RSD	0.3 %	0.3 %	0.3 %
Concentration SD	0.3 %	0.3 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	96.7270 %	23.2741 ppm
Concentration per Run 1	97.137 %	24.015 ppm
Concentration per Run 2	96.419 %	24.887 ppm
Concentration per Run 3	96.624 %	20.920 ppm
Concentration RSD	0.4 %	9.0 %
Concentration SD	0.4 %	2.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	452 cps	9,823 cps	7,047 cps	7,520 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	628 cps	311 cps	7,240 cps	465 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1,672 cps	5,288 cps	3,298 cps	75,387 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	3,274 cps	10,318 cps	32,637 cps	17,557 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1,976 cps	5,267 cps	12,612 cps	875 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	400 cps	17,533 cps	4,396 cps	378 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	111,296 cps	453 cps	1,270 cps	3,180 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	239 cps	20,389 cps	24,298 cps	830 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2,528 cps	4,443 cps	8,402 cps	170,721 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,106 cps	85 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	90.3331 ppm	140.6655 ppm	87.8719 ppm
Concentration per Run 1	90.239 ppm	140.353 ppm	87.666 ppm
Concentration per Run 2	90.189 ppm	140.883 ppm	87.998 ppm
Concentration per Run 3	90.571 ppm	140.761 ppm	87.951 ppm
Concentration RSD	0.2 %	0.2 %	0.2 %
Concentration SD	0.2 ppm	0.3 ppm	0.2 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	82.3098 ppm	88.3103 ppm	91.1440 ppm
Concentration per Run 1	83.308 ppm	88.227 ppm	90.678 ppm
Concentration per Run 2	81.884 ppm	88.509 ppm	91.248 ppm
Concentration per Run 3	81.737 ppm	88.195 ppm	91.506 ppm
Concentration RSD	1.1 %	0.2 %	0.5 %
Concentration SD	0.9 ppm	0.2 ppm	0.4 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	85.2304 ppm	91.6928 ppm	91.4830 ppm
Concentration per Run 1	86.270 ppm	91.801 ppm	91.448 ppm
Concentration per Run 2	84.655 ppm	92.253 ppm	91.721 ppm
Concentration per Run 3	84.767 ppm	91.025 ppm	91.280 ppm
Concentration RSD	1.1 %	0.7 %	0.2 %
Concentration SD	0.9 ppm	0.6 ppm	0.2 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	107.3757 ppm	4,847.0419 ppm	9,548.1964 ppm
Concentration per Run 1	107.452 ppm	4,828.545 ppm	9,522.591 ppm
Concentration per Run 2	107.369 ppm	4,861.226 ppm	9,539.074 ppm
Concentration per Run 3	107.306 ppm	4,851.354 ppm	9,582.924 ppm
Concentration RSD	0.1 %	0.3 %	0.3 %
Concentration SD	0.1 ppm	16.8 ppm	31.2 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	10,190.9963 ppm	92.2351 ppm	25,093.2432 ppm
Concentration per Run 1	10,161.667 ppm	92.101 ppm	25,038.180 ppm
Concentration per Run 2	10,198.912 ppm	92.372 ppm	25,072.868 ppm
Concentration per Run 3	10,212.410 ppm	92.232 ppm	25,168.682 ppm
Concentration RSD	0.3 %	0.1 %	0.3 %
Concentration SD	26.3 ppm	0.1 ppm	67.6 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	27,142.7905 ppm	11,381.9301 ppm	1,165.7746 ppm
Concentration per Run 1	27,075.184 ppm	11,363.382 ppm	1,165.439 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	27,097.966 ppm	11,377.577 ppm	1,170.662 ppm
Concentration per Run 3	27,255.222 ppm	11,404.831 ppm	1,161.222 ppm
Concentration RSD	0.4 %	0.2 %	0.4 %
Concentration SD	98.0 ppm	21.1 ppm	4.7 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	903.2553 ppm	964.8219 ppm	79.5000 ppm
Concentration per Run 1	902.290 ppm	965.556 ppm	79.084 ppm
Concentration per Run 2	902.734 ppm	963.278 ppm	79.408 ppm
Concentration per Run 3	904.742 ppm	965.631 ppm	80.008 ppm
Concentration RSD	0.1 %	0.1 %	0.6 %
Concentration SD	1.3 ppm	1.3 ppm	0.5 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	85.4091 ppm	87.7749 ppm	80.5036 ppm
Concentration per Run 1	85.281 ppm	87.734 ppm	80.507 ppm
Concentration per Run 2	85.310 ppm	87.811 ppm	80.547 ppm
Concentration per Run 3	85.636 ppm	87.780 ppm	80.456 ppm
Concentration RSD	0.2 %	0.0 %	0.1 %
Concentration SD	0.2 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	431.7000 ppm	90.1491 ppm	107.2773 ppm
Concentration per Run 1	436.978 ppm	89.731 ppm	107.151 ppm
Concentration per Run 2	429.029 ppm	90.756 ppm	107.170 ppm
Concentration per Run 3	429.092 ppm	89.960 ppm	107.511 ppm
Concentration RSD	1.1 %	0.6 %	0.2 %
Concentration SD	4.6 ppm	0.5 ppm	0.2 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	82.7576 ppm	81.3538 ppm	109.3124 ppm
Concentration per Run 1	82.506 ppm	80.980 ppm	109.059 ppm
Concentration per Run 2	82.966 ppm	81.975 ppm	109.251 ppm
Concentration per Run 3	82.800 ppm	81.107 ppm	109.627 ppm
Concentration RSD	0.3 %	0.7 %	0.3 %
Concentration SD	0.2 ppm	0.5 ppm	0.3 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	1,821.8095 ppm	77.2427 ppm	1,123.6328 ppm
Concentration per Run 1	1,844.912 ppm	77.080 ppm	1,120.753 ppm
Concentration per Run 2	1,811.959 ppm	77.473 ppm	1,126.322 ppm
Concentration per Run 3	1,808.557 ppm	77.176 ppm	1,123.824 ppm
Concentration RSD	1.1 %	0.3 %	0.2 %
Concentration SD	20.1 ppm	0.2 ppm	2.8 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	81.6344 %	112.4703 %	95.6565 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	81.691 %	112.876 %	94.798 %
Concentration per Run 2	81.834 %	112.464 %	96.234 %
Concentration per Run 3	81.378 %	112.071 %	95.937 %
Concentration RSD	0.3 %	0.4 %	0.8 %
Concentration SD	0.2 %	0.4 %	0.8 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	92.5258 %	28.0025 ppm
Concentration per Run 1	92.679 %	26.177 ppm
Concentration per Run 2	92.687 %	29.257 ppm
Concentration per Run 3	92.211 %	28.574 ppm
Concentration RSD	0.3 %	5.8 %
Concentration SD	0.3 %	1.6 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	468 cps	10,118 cps	7,383 cps	7,591 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	633 cps	341 cps	7,714 cps	489 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1,692 cps	5,727 cps	3,394 cps	55,790 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2,383 cps	11,274 cps	126,143 cps	67,742 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	5,510 cps	6,289 cps	13,881 cps	944 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	409 cps	18,320 cps	4,423 cps	372 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	240,514 cps	445 cps	1,654 cps	3,274 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	258 cps	25,208 cps	45,148 cps	836 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2,824 cps	4,105 cps	8,133 cps	162,400 cps

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	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,363 cps	101 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.0194 ppm	0.0703 ppm	0.0057 ppm
Concentration per Run 1	-0.009 ppm	0.070 ppm	0.001 ppm
Concentration per Run 2	0.048 ppm	0.068 ppm	0.008 ppm
Concentration per Run 3	0.019 ppm	0.073 ppm	0.008 ppm
Concentration RSD	147.9 %	3.5 %	78.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0500 ppm	0.0740 ppm	0.4593 ppm
Concentration per Run 1	0.063 ppm	0.053 ppm	0.491 ppm
Concentration per Run 2	0.036 ppm	0.073 ppm	0.447 ppm
Concentration per Run 3	0.051 ppm	0.095 ppm	0.440 ppm
Concentration RSD	27.3 %	28.4 %	6.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0647 ppm	0.0019 ppm	0.6138 ppm
Concentration per Run 1	0.045 ppm	-0.069 ppm	0.609 ppm
Concentration per Run 2	0.053 ppm	0.092 ppm	0.615 ppm
Concentration per Run 3	0.096 ppm	-0.018 ppm	0.618 ppm
Concentration RSD	41.8 %	4,408.1 %	0.7 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.6567 ppm	-0.5914 ppm	0.5387 ppm
Concentration per Run 1	0.657 ppm	-0.268 ppm	0.547 ppm
Concentration per Run 2	0.657 ppm	-1.319 ppm	0.608 ppm
Concentration per Run 3	0.656 ppm	-0.187 ppm	0.461 ppm
Concentration RSD	0.1 %	106.8 %	13.8 %
Concentration SD	0.0 ppm	0.6 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.7235 ppm	0.0398 ppm	383.4476 ppm
Concentration per Run 1	0.879 ppm	0.041 ppm	384.077 ppm
Concentration per Run 2	1.320 ppm	0.045 ppm	383.253 ppm
Concentration per Run 3	-0.028 ppm	0.034 ppm	383.012 ppm
Concentration RSD	95.0 %	14.6 %	0.1 %
Concentration SD	0.7 ppm	0.0 ppm	0.6 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	410.6714 ppm	1,290.2467 ppm	2.2546 ppm
Concentration per Run 1	410.655 ppm	1,288.426 ppm	1.874 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	410.587 ppm	1,290.880 ppm	3.105 ppm
Concentration per Run 3	410.771 ppm	1,291.434 ppm	1.785 ppm
Concentration RSD	0.0 %	0.1 %	32.7 %
Concentration SD	0.1 ppm	1.6 ppm	0.7 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	108.4067 ppm	116.3546 ppm	-0.0196 ppm
Concentration per Run 1	108.319 ppm	116.682 ppm	-0.018 ppm
Concentration per Run 2	108.425 ppm	118.112 ppm	-0.009 ppm
Concentration per Run 3	108.476 ppm	114.269 ppm	-0.032 ppm
Concentration RSD	0.1 %	1.7 %	57.5 %
Concentration SD	0.1 ppm	1.9 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0048 ppm	0.0177 ppm	-0.1627 ppm
Concentration per Run 1	0.005 ppm	0.018 ppm	-0.181 ppm
Concentration per Run 2	0.005 ppm	0.019 ppm	-0.168 ppm
Concentration per Run 3	0.005 ppm	0.017 ppm	-0.139 ppm
Concentration RSD	6.7 %	5.9 %	13.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	385.7279 ppm	-0.1478 ppm	0.0895 ppm
Concentration per Run 1	384.801 ppm	-0.188 ppm	0.083 ppm
Concentration per Run 2	388.091 ppm	-0.119 ppm	0.103 ppm
Concentration per Run 3	384.292 ppm	-0.136 ppm	0.082 ppm
Concentration RSD	0.5 %	24.5 %	13.5 %
Concentration SD	2.1 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0158 ppm	0.9694 ppm	0.7725 ppm
Concentration per Run 1	0.015 ppm	0.934 ppm	0.774 ppm
Concentration per Run 2	0.017 ppm	1.021 ppm	0.777 ppm
Concentration per Run 3	0.016 ppm	0.952 ppm	0.767 ppm
Concentration RSD	7.1 %	4.7 %	0.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	0.9629 ppm	-0.0046 ppm	3,214.0696 ppm
Concentration per Run 1	0.966 ppm	0.004 ppm	3,216.443 ppm
Concentration per Run 2	0.965 ppm	-0.010 ppm	3,221.624 ppm
Concentration per Run 3	0.958 ppm	-0.008 ppm	3,204.142 ppm
Concentration RSD	0.4 %	166.2 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	9.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	94.5409 %	113.7437 %	100.5722 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	94.669 %	113.791 %	100.597 %
Concentration per Run 2	94.425 %	113.317 %	100.564 %
Concentration per Run 3	94.529 %	114.124 %	100.556 %
Concentration RSD	0.1 %	0.4 %	0.0 %
Concentration SD	0.1 %	0.4 %	0.0 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	96.5831 %	-0.2796 ppm
Concentration per Run 1	96.718 %	0.270 ppm
Concentration per Run 2	96.458 %	-1.040 ppm
Concentration per Run 3	96.573 %	-0.069 ppm
Concentration RSD	0.1 %	243.3 %
Concentration SD	0.1 %	0.7 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	28 cps	4 cps	25 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1 cps	8 cps	11 cps	10 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	58 cps	174 cps	12 cps	16 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2 cps	33 cps	9,295 cps	4,933 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2,992 cps	163 cps	7,957 cps	504 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	1 cps	3 cps	-7 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	1,070,044 cps	-4 cps	5 cps	6 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	16 cps	825 cps	159 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	39,935 cps	4,754 cps	8,225 cps	170,745 cps

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	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,081 cps	17 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.0266 ppm	0.0602 ppm	0.0045 ppm
Concentration per Run 1	0.010 ppm	0.062 ppm	0.006 ppm
Concentration per Run 2	0.021 ppm	0.060 ppm	0.005 ppm
Concentration per Run 3	0.049 ppm	0.059 ppm	0.002 ppm
Concentration RSD	76.6 %	2.3 %	48.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0089 ppm	0.0479 ppm	0.2616 ppm
Concentration per Run 1	0.019 ppm	0.051 ppm	0.291 ppm
Concentration per Run 2	0.015 ppm	0.049 ppm	0.226 ppm
Concentration per Run 3	-0.007 ppm	0.043 ppm	0.268 ppm
Concentration RSD	157.4 %	8.3 %	12.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0250 ppm	0.3473 ppm	0.1495 ppm
Concentration per Run 1	0.034 ppm	0.279 ppm	0.139 ppm
Concentration per Run 2	0.032 ppm	0.427 ppm	0.147 ppm
Concentration per Run 3	0.009 ppm	0.336 ppm	0.162 ppm
Concentration RSD	55.2 %	21.6 %	7.6 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.2303 ppm	-1.0002 ppm	0.3187 ppm
Concentration per Run 1	0.232 ppm	-1.570 ppm	0.256 ppm
Concentration per Run 2	0.228 ppm	-0.216 ppm	0.412 ppm
Concentration per Run 3	0.231 ppm	-1.215 ppm	0.289 ppm
Concentration RSD	0.9 %	70.2 %	25.8 %
Concentration SD	0.0 ppm	0.7 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	0.0086 ppm	0.0196 ppm	343.4459 ppm
Concentration per Run 1	-1.057 ppm	0.020 ppm	344.212 ppm
Concentration per Run 2	-0.644 ppm	0.029 ppm	343.302 ppm
Concentration per Run 3	1.727 ppm	0.010 ppm	342.823 ppm
Concentration RSD	17,555.7 %	48.5 %	0.2 %
Concentration SD	1.5 ppm	0.0 ppm	0.7 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	367.5555 ppm	952.5778 ppm	3.6745 ppm
Concentration per Run 1	367.485 ppm	952.286 ppm	3.837 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	367.758 ppm	952.541 ppm	4.009 ppm
Concentration per Run 3	367.423 ppm	952.906 ppm	3.177 ppm
Concentration RSD	0.0 %	0.0 %	12.0 %
Concentration SD	0.2 ppm	0.3 ppm	0.4 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	63.3748 ppm	69.0940 ppm	-0.0092 ppm
Concentration per Run 1	63.485 ppm	68.570 ppm	-0.010 ppm
Concentration per Run 2	63.472 ppm	67.719 ppm	-0.023 ppm
Concentration per Run 3	63.168 ppm	70.993 ppm	0.006 ppm
Concentration RSD	0.3 %	2.5 %	157.5 %
Concentration SD	0.2 ppm	1.7 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0013 ppm	0.0143 ppm	0.0090 ppm
Concentration per Run 1	0.000 ppm	0.018 ppm	0.013 ppm
Concentration per Run 2	0.000 ppm	0.013 ppm	0.022 ppm
Concentration per Run 3	0.004 ppm	0.012 ppm	-0.008 ppm
Concentration RSD	156.0 %	21.6 %	170.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	112.9713 ppm	-0.0553 ppm	0.0775 ppm
Concentration per Run 1	112.919 ppm	0.022 ppm	0.110 ppm
Concentration per Run 2	112.562 ppm	-0.067 ppm	0.062 ppm
Concentration per Run 3	113.433 ppm	-0.121 ppm	0.061 ppm
Concentration RSD	0.4 %	130.5 %	35.9 %
Concentration SD	0.4 ppm	0.1 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0240 ppm	0.6143 ppm	3.0503 ppm
Concentration per Run 1	0.024 ppm	0.640 ppm	3.047 ppm
Concentration per Run 2	0.026 ppm	0.491 ppm	3.058 ppm
Concentration per Run 3	0.023 ppm	0.711 ppm	3.047 ppm
Concentration RSD	6.1 %	18.3 %	0.2 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	0.5234 ppm	-0.0158 ppm	2,222.7100 ppm
Concentration per Run 1	0.526 ppm	-0.012 ppm	2,255.657 ppm
Concentration per Run 2	0.525 ppm	-0.025 ppm	2,210.824 ppm
Concentration per Run 3	0.519 ppm	-0.010 ppm	2,201.649 ppm
Concentration RSD	0.7 %	49.1 %	1.3 %
Concentration SD	0.0 ppm	0.0 ppm	28.9 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	95.8625 %	114.0686 %	102.0688 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	94.692 %	113.996 %	102.462 %
Concentration per Run 2	96.547 %	114.218 %	102.196 %
Concentration per Run 3	96.349 %	113.992 %	101.548 %
Concentration RSD	1.1 %	0.1 %	0.5 %
Concentration SD	1.0 %	0.1 %	0.5 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	97.2662 %	-0.7448 ppm
Concentration per Run 1	96.179 %	-0.769 ppm
Concentration per Run 2	97.851 %	-0.652 ppm
Concentration per Run 3	97.769 %	-0.813 ppm
Concentration RSD	1.0 %	11.2 %
Concentration SD	0.9 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	25 cps	3 cps	7 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	0 cps	4 cps	-7 cps	19 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	12 cps	63 cps	10 cps	10 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	21 cps	8,422 cps	4,465 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2,233 cps	200 cps	4,681 cps	263 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-3 cps	2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	320,600 cps	-2 cps	5 cps	8 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	11 cps	3,380 cps	107 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	28,032 cps	4,821 cps	8,249 cps	173,286 cps

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	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,202 cps	10 cps

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CCV 15I21330

Sample Type QC Analysis Date 10/19/2015 1:13:37 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0311 ppm	0.4960 ppm	0.4968 ppm	0.9411 ppm
Concentration per Run 1	2.034 ppm	0.496 ppm	0.497 ppm	0.940 ppm
Concentration per Run 2	2.032 ppm	0.496 ppm	0.496 ppm	0.940 ppm
Concentration per Run 3	2.027 ppm	0.496 ppm	0.497 ppm	0.942 ppm
Concentration RSD	0.2 %	0.1 %	0.1 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.4671 ppm	2.0706 ppm	0.9245 ppm	1.9054 ppm
Concentration per Run 1	0.467 ppm	2.069 ppm	0.926 ppm	1.889 ppm
Concentration per Run 2	0.466 ppm	2.072 ppm	0.921 ppm	1.920 ppm
Concentration per Run 3	0.468 ppm	2.070 ppm	0.927 ppm	1.907 ppm
Concentration RSD	0.1 %	0.1 %	0.4 %	0.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1.9290 ppm	2.8469 ppm	9.7838 ppm	9.6030 ppm
Concentration per Run 1	1.929 ppm	2.849 ppm	9.702 ppm	9.482 ppm
Concentration per Run 2	1.930 ppm	2.845 ppm	9.818 ppm	9.694 ppm
Concentration per Run 3	1.928 ppm	2.847 ppm	9.832 ppm	9.633 ppm
Concentration RSD	0.1 %	0.1 %	0.7 %	1.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.1 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.1321 ppm	1.4004 ppm	46.2837 ppm	49.7251 ppm
Concentration per Run 1	10.019 ppm	1.390 ppm	45.851 ppm	49.325 ppm
Concentration per Run 2	10.299 ppm	1.418 ppm	46.742 ppm	50.222 ppm
Concentration per Run 3	10.079 ppm	1.393 ppm	46.258 ppm	49.629 ppm
Concentration RSD	1.5 %	1.1 %	1.0 %	0.9 %
Concentration SD	0.1 ppm	0.0 ppm	0.4 ppm	0.5 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	9.1140 ppm	50.0619 ppm	45.9557 ppm	48.5305 ppm
Concentration per Run 1	9.031 ppm	49.641 ppm	45.580 ppm	47.746 ppm
Concentration per Run 2	9.211 ppm	50.424 ppm	46.291 ppm	48.922 ppm
Concentration per Run 3	9.100 ppm	50.120 ppm	45.997 ppm	48.924 ppm
Concentration RSD	1.0 %	0.8 %	0.8 %	1.4 %
Concentration SD	0.1 ppm	0.4 ppm	0.4 ppm	0.7 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	1.9946 ppm	0.1983 ppm	0.9571 ppm	1.8270 ppm
Concentration per Run 1	1.994 ppm	0.197 ppm	0.958 ppm	1.831 ppm
Concentration per Run 2	1.999 ppm	0.200 ppm	0.956 ppm	1.823 ppm
Concentration per Run 3	1.990 ppm	0.198 ppm	0.957 ppm	1.827 ppm
Concentration RSD	0.2 %	0.8 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9434 ppm	0.9541 ppm	0.9823 ppm	0.5021 ppm
Concentration per Run 1	0.943 ppm	0.944 ppm	0.974 ppm	0.503 ppm
Concentration per Run 2	0.941 ppm	0.962 ppm	0.994 ppm	0.502 ppm
Concentration per Run 3	0.946 ppm	0.957 ppm	0.978 ppm	0.501 ppm
Concentration RSD	0.3 %	1.0 %	1.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.8797 ppm	0.9558 ppm	1.8587 ppm	1.8570 ppm
Concentration per Run 1	1.859 ppm	0.949 ppm	1.855 ppm	1.859 ppm
Concentration per Run 2	1.903 ppm	0.965 ppm	1.854 ppm	1.856 ppm
Concentration per Run 3	1.876 ppm	0.952 ppm	1.867 ppm	1.856 ppm
Concentration RSD	1.2 %	0.9 %	0.4 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	5.4222 ppm	89.5100 %	109.4874 %	97.3400 %
Concentration per Run 1	5.419 ppm	89.444 %	110.807 %	97.197 %
Concentration per Run 2	5.426 ppm	89.446 %	108.142 %	97.550 %
Concentration per Run 3	5.421 ppm	89.639 %	109.513 %	97.273 %
Concentration RSD	0.1 %	0.1 %	1.2 %	0.2 %
Concentration SD	0.0 ppm	0.1 %	1.3 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	95.0062 %	0.0394 ppm
Concentration per Run 1	94.897 %	0.044 ppm
Concentration per Run 2	94.912 %	0.021 ppm
Concentration per Run 3	95.209 %	0.053 ppm
Concentration RSD	0.2 %	41.8 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,022 cps	3,458 cps	4,044 cps	8,332 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	345 cps	752 cps	8,034 cps	924 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,695 cps	14,706 cps	640 cps	5,153 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	219 cps	15,714 cps	21,420 cps	11,417 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	405 cps	24,488 cps	65,047 cps	4,714 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	994 cps	3,904 cps	4,989 cps	877 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	50,473 cps	433 cps	1,391 cps	1,925 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	546 cps	20,235 cps	4,457 cps	1,944 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,320 cps	4,501 cps	7,917 cps	165,258 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,802 cps	31 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0004 ppm	0.0000 ppm	0.0001 ppm	0.0000 ppm
Concentration per Run 1	0.000 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 3	-0.003 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	585.1 %	385.4 %	130.8 %	2,908.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0016 ppm	0.0049 ppm	0.0004 ppm	0.0044 ppm
Concentration per Run 1	0.002 ppm	0.007 ppm	0.000 ppm	0.002 ppm
Concentration per Run 2	0.002 ppm	0.003 ppm	0.001 ppm	0.007 ppm
Concentration per Run 3	0.001 ppm	0.005 ppm	0.000 ppm	0.004 ppm
Concentration RSD	31.3 %	37.4 %	31.7 %	56.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0009 ppm	0.0000 ppm	-0.0894 ppm	0.0046 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	-0.110 ppm	0.002 ppm
Concentration per Run 2	0.001 ppm	0.000 ppm	-0.044 ppm	0.008 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.114 ppm	0.004 ppm
Concentration RSD	39.9 %	256.4 %	44.3 %	72.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0263 ppm	-0.0017 ppm	0.0126 ppm	-0.0238 ppm
Concentration per Run 1	-0.082 ppm	0.000 ppm	0.014 ppm	-0.016 ppm
Concentration per Run 2	0.009 ppm	-0.001 ppm	0.013 ppm	-0.036 ppm
Concentration per Run 3	-0.006 ppm	-0.004 ppm	0.011 ppm	-0.019 ppm
Concentration RSD	185.2 %	108.7 %	14.9 %	45.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0101 ppm	0.0042 ppm	0.0046 ppm	0.0903 ppm
Concentration per Run 1	0.011 ppm	0.018 ppm	0.002 ppm	-0.091 ppm
Concentration per Run 2	0.000 ppm	0.009 ppm	0.010 ppm	0.130 ppm
Concentration per Run 3	0.019 ppm	-0.014 ppm	0.002 ppm	0.231 ppm
Concentration RSD	93.0 %	381.7 %	95.1 %	182.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0048 ppm	0.0000 ppm	0.0000 ppm	-0.0005 ppm
Concentration per Run 1	0.003 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	0.005 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration per Run 3	0.007 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	40.2 %	144.2 %	453.7 %	173.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0002 ppm	0.0008 ppm	0.0020 ppm	0.0005 ppm
Concentration per Run 1	0.000 ppm	0.001 ppm	0.005 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.001 ppm	0.002 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	0.002 ppm	-0.001 ppm	0.001 ppm
Concentration RSD	31.5 %	148.7 %	132.0 %	29.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0081 ppm	0.0005 ppm	0.0018 ppm	-0.0005 ppm
Concentration per Run 1	0.013 ppm	0.000 ppm	0.002 ppm	0.000 ppm
Concentration per Run 2	0.005 ppm	0.000 ppm	0.001 ppm	0.000 ppm
Concentration per Run 3	0.006 ppm	0.001 ppm	0.002 ppm	-0.001 ppm
Concentration RSD	54.4 %	10.2 %	51.8 %	83.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0144 ppm	103.2569 %	112.9198 %	104.8703 %
Concentration per Run 1	0.014 ppm	103.070 %	113.566 %	104.862 %
Concentration per Run 2	0.013 ppm	103.452 %	111.937 %	104.906 %
Concentration per Run 3	0.016 ppm	103.248 %	113.257 %	104.843 %
Concentration RSD	8.3 %	0.2 %	0.8 %	0.0 %
Concentration SD	0.0 ppm	0.2 %	0.9 %	0.0 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.4769 %	-0.0528 ppm
Concentration per Run 1	100.423 %	-0.020 ppm
Concentration per Run 2	100.682 %	-0.063 ppm
Concentration per Run 3	100.326 %	-0.075 ppm
Concentration RSD	0.2 %	54.9 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	4 cps	3 cps	2 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	1 cps	-15 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-2 cps	1 cps	8 cps	3 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	-11 cps	73 cps	20 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	107 cps	-45 cps	-88 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	4 cps	-4 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	31 cps	0 cps	2 cps	5 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	4 cps	-19 cps	47 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	3 cps	5,193 cps	8,165 cps	178,043 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,770 cps	6 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.0048 ppm	0.0612 ppm	0.0016 ppm
Concentration per Run 1	0.046 ppm	0.062 ppm	-0.003 ppm
Concentration per Run 2	-0.032 ppm	0.058 ppm	0.003 ppm
Concentration per Run 3	0.000 ppm	0.063 ppm	0.006 ppm
Concentration RSD	814.6 %	4.2 %	279.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0107 ppm	0.0533 ppm	0.1708 ppm
Concentration per Run 1	0.005 ppm	0.059 ppm	0.158 ppm
Concentration per Run 2	0.011 ppm	0.045 ppm	0.216 ppm
Concentration per Run 3	0.016 ppm	0.056 ppm	0.138 ppm
Concentration RSD	48.2 %	13.4 %	23.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0127 ppm	0.1156 ppm	0.1959 ppm
Concentration per Run 1	0.017 ppm	0.207 ppm	0.195 ppm
Concentration per Run 2	0.005 ppm	0.153 ppm	0.193 ppm
Concentration per Run 3	0.015 ppm	-0.012 ppm	0.200 ppm
Concentration RSD	50.0 %	98.8 %	1.8 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.2774 ppm	-0.8131 ppm	0.2558 ppm
Concentration per Run 1	0.275 ppm	-0.397 ppm	0.259 ppm
Concentration per Run 2	0.283 ppm	-1.315 ppm	0.279 ppm
Concentration per Run 3	0.274 ppm	-0.727 ppm	0.229 ppm
Concentration RSD	1.8 %	57.2 %	9.7 %
Concentration SD	0.0 ppm	0.5 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	-1.2862 ppm	-0.0096 ppm	329.2722 ppm
Concentration per Run 1	-2.990 ppm	0.000 ppm	328.653 ppm
Concentration per Run 2	-0.126 ppm	-0.022 ppm	331.252 ppm
Concentration per Run 3	-0.743 ppm	-0.006 ppm	327.911 ppm
Concentration RSD	117.2 %	118.7 %	0.5 %
Concentration SD	1.5 ppm	0.0 ppm	1.8 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	353.4519 ppm	988.2139 ppm	3.2811 ppm
Concentration per Run 1	353.307 ppm	990.728 ppm	3.393 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	353.331 ppm	989.536 ppm	3.195 ppm
Concentration per Run 3	353.718 ppm	984.377 ppm	3.255 ppm
Concentration RSD	0.1 %	0.3 %	3.1 %
Concentration SD	0.2 ppm	3.4 ppm	0.1 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	45.1778 ppm	52.5018 ppm	0.0243 ppm
Concentration per Run 1	45.098 ppm	50.651 ppm	0.005 ppm
Concentration per Run 2	45.295 ppm	54.251 ppm	0.023 ppm
Concentration per Run 3	45.141 ppm	52.604 ppm	0.045 ppm
Concentration RSD	0.2 %	3.4 %	82.2 %
Concentration SD	0.1 ppm	1.8 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0004 ppm	0.0122 ppm	-0.0065 ppm
Concentration per Run 1	0.003 ppm	0.014 ppm	-0.021 ppm
Concentration per Run 2	0.000 ppm	0.008 ppm	-0.009 ppm
Concentration per Run 3	-0.001 ppm	0.014 ppm	0.011 ppm
Concentration RSD	460.7 %	29.6 %	250.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	59.0504 ppm	0.0135 ppm	0.1022 ppm
Concentration per Run 1	59.094 ppm	0.038 ppm	0.129 ppm
Concentration per Run 2	59.097 ppm	-0.009 ppm	0.070 ppm
Concentration per Run 3	58.959 ppm	0.011 ppm	0.108 ppm
Concentration RSD	0.1 %	177.5 %	29.5 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0490 ppm	0.2785 ppm	4.1019 ppm
Concentration per Run 1	0.043 ppm	0.298 ppm	4.102 ppm
Concentration per Run 2	0.056 ppm	0.175 ppm	4.091 ppm
Concentration per Run 3	0.049 ppm	0.362 ppm	4.113 ppm
Concentration RSD	13.1 %	34.1 %	0.3 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	0.6495 ppm	-0.0168 ppm	2,256.3318 ppm
Concentration per Run 1	0.632 ppm	-0.008 ppm	2,256.550 ppm
Concentration per Run 2	0.660 ppm	-0.021 ppm	2,257.279 ppm
Concentration per Run 3	0.657 ppm	-0.021 ppm	2,255.167 ppm
Concentration RSD	2.4 %	43.4 %	0.0 %
Concentration SD	0.0 ppm	0.0 ppm	1.1 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	96.9554 %	115.3043 %	102.9067 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	97.191 %	115.162 %	102.873 %
Concentration per Run 2	96.936 %	115.021 %	102.974 %
Concentration per Run 3	96.739 %	115.731 %	102.873 %
Concentration RSD	0.2 %	0.3 %	0.1 %
Concentration SD	0.2 %	0.4 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	98.2245 %	-0.4603 ppm
Concentration per Run 1	98.350 %	-0.622 ppm
Concentration per Run 2	98.190 %	-0.372 ppm
Concentration per Run 3	98.133 %	-0.387 ppm
Concentration RSD	0.1 %	30.4 %
Concentration SD	0.1 %	0.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	26 cps	2 cps	8 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	0 cps	3 cps	-13 cps	13 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	16 cps	76 cps	11 cps	8 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	0 cps	4 cps	8,133 cps	4,324 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2,332 cps	192 cps	3,344 cps	177 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	-4 cps	2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	168,297 cps	0 cps	7 cps	13 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	6 cps	4,586 cps	123 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	28,625 cps	4,876 cps	8,338 cps	174,709 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,371 cps	14 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	2.4837 ppm	26.8688 ppm	0.1199 ppm
Concentration per Run 1	2.467 ppm	26.876 ppm	0.120 ppm
Concentration per Run 2	2.425 ppm	26.866 ppm	0.118 ppm
Concentration per Run 3	2.559 ppm	26.865 ppm	0.122 ppm
Concentration RSD	2.8 %	0.0 %	1.7 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	3.4646 ppm	5.1829 ppm	0.6608 ppm
Concentration per Run 1	3.480 ppm	4.982 ppm	0.466 ppm
Concentration per Run 2	3.459 ppm	5.297 ppm	0.585 ppm
Concentration per Run 3	3.455 ppm	5.269 ppm	0.931 ppm
Concentration RSD	0.4 %	3.4 %	36.6 %
Concentration SD	0.0 ppm	0.2 ppm	0.2 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0225 ppm	8.3822 ppm	5.3798 ppm
Concentration per Run 1	-0.055 ppm	8.716 ppm	5.424 ppm
Concentration per Run 2	0.075 ppm	8.770 ppm	5.411 ppm
Concentration per Run 3	0.047 ppm	7.661 ppm	5.304 ppm
Concentration RSD	303.5 %	7.5 %	1.2 %
Concentration SD	0.1 ppm	0.6 ppm	0.1 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	34.2246 ppm	2,608.8201 ppm	6,087.2083 ppm
Concentration per Run 1	34.246 ppm	2,610.435 ppm	6,106.016 ppm
Concentration per Run 2	34.198 ppm	2,608.370 ppm	6,054.285 ppm
Concentration per Run 3	34.230 ppm	2,607.656 ppm	6,101.324 ppm
Concentration RSD	0.1 %	0.1 %	0.5 %
Concentration SD	0.0 ppm	1.4 ppm	28.6 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	6,473.6755 ppm	5.1878 ppm	20,798.6073 ppm
Concentration per Run 1	6,448.667 ppm	5.240 ppm	20,866.835 ppm
Concentration per Run 2	6,466.150 ppm	5.186 ppm	20,685.933 ppm
Concentration per Run 3	6,506.210 ppm	5.138 ppm	20,843.054 ppm
Concentration RSD	0.5 %	1.0 %	0.5 %
Concentration SD	29.5 ppm	0.1 ppm	98.3 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	22,444.1050 ppm	9,833.1045 ppm	339.0756 ppm
Concentration per Run 1	22,512.991 ppm	9,867.264 ppm	339.075 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	22,304.157 ppm	9,812.872 ppm	339.801 ppm
Concentration per Run 3	22,515.167 ppm	9,819.178 ppm	338.350 ppm
Concentration RSD	0.5 %	0.3 %	0.2 %
Concentration SD	121.2 ppm	29.8 ppm	0.7 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	62.7973 ppm	98.1818 ppm	0.0799 ppm
Concentration per Run 1	62.330 ppm	93.734 ppm	0.016 ppm
Concentration per Run 2	63.005 ppm	93.939 ppm	0.112 ppm
Concentration per Run 3	63.057 ppm	106.873 ppm	0.112 ppm
Concentration RSD	0.6 %	7.7 %	69.1 %
Concentration SD	0.4 ppm	7.5 ppm	0.1 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.1274 ppm	2.3373 ppm	-0.0166 ppm
Concentration per Run 1	0.135 ppm	2.316 ppm	-0.055 ppm
Concentration per Run 2	0.136 ppm	2.343 ppm	-0.143 ppm
Concentration per Run 3	0.111 ppm	2.353 ppm	0.148 ppm
Concentration RSD	11.0 %	0.8 %	899.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	310.3245 ppm	6.1206 ppm	43.5834 ppm
Concentration per Run 1	310.700 ppm	6.360 ppm	43.525 ppm
Concentration per Run 2	311.132 ppm	6.354 ppm	43.358 ppm
Concentration per Run 3	309.142 ppm	5.648 ppm	43.868 ppm
Concentration RSD	0.3 %	6.7 %	0.6 %
Concentration SD	1.0 ppm	0.4 ppm	0.3 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0572 ppm	2.0673 ppm	22.2616 ppm
Concentration per Run 1	0.060 ppm	2.399 ppm	22.276 ppm
Concentration per Run 2	0.065 ppm	1.909 ppm	22.215 ppm
Concentration per Run 3	0.047 ppm	1.893 ppm	22.293 ppm
Concentration RSD	15.6 %	13.9 %	0.2 %
Concentration SD	0.0 ppm	0.3 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	995.9374 ppm	0.0733 ppm	115.4395 ppm
Concentration per Run 1	998.220 ppm	0.055 ppm	115.712 ppm
Concentration per Run 2	996.671 ppm	0.059 ppm	115.117 ppm
Concentration per Run 3	992.921 ppm	0.106 ppm	115.489 ppm
Concentration RSD	0.3 %	38.6 %	0.3 %
Concentration SD	2.7 ppm	0.0 ppm	0.3 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	84.0176 %	114.5930 %	97.7303 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	84.046 %	113.986 %	97.825 %
Concentration per Run 2	83.886 %	115.356 %	97.714 %
Concentration per Run 3	84.120 %	114.436 %	97.652 %
Concentration RSD	0.1 %	0.6 %	0.1 %
Concentration SD	0.1 %	0.7 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	93.4678 %	24.0015 ppm
Concentration per Run 1	93.548 %	25.159 ppm
Concentration per Run 2	93.247 %	24.297 ppm
Concentration per Run 3	93.609 %	22.549 ppm
Concentration RSD	0.2 %	5.5 %
Concentration SD	0.2 %	1.3 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	11 cps	1,992 cps	12 cps	335 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	37 cps	2 cps	-16 cps	56 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	101 cps	1,879 cps	1,902 cps	36,922 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1,572 cps	667 cps	108,547 cps	58,153 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	4,942 cps	1,974 cps	953 cps	12 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	24 cps	122 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	179,988 cps	31 cps	697 cps	5 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	8 cps	5,305 cps	25,711 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	298 cps	4,225 cps	8,286 cps	165,921 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,530 cps	91 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	2.0080 ppm	20.2986 ppm	0.1247 ppm
Concentration per Run 1	1.924 ppm	20.275 ppm	0.131 ppm
Concentration per Run 2	1.980 ppm	20.317 ppm	0.111 ppm
Concentration per Run 3	2.120 ppm	20.304 ppm	0.132 ppm
Concentration RSD	5.0 %	0.1 %	9.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.8106 ppm	7.4631 ppm	0.4663 ppm
Concentration per Run 1	4.837 ppm	7.387 ppm	0.478 ppm
Concentration per Run 2	4.891 ppm	7.644 ppm	0.280 ppm
Concentration per Run 3	4.703 ppm	7.359 ppm	0.641 ppm
Concentration RSD	2.0 %	2.1 %	38.8 %
Concentration SD	0.1 ppm	0.2 ppm	0.2 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0096 ppm	11.3360 ppm	6.9377 ppm
Concentration per Run 1	-0.010 ppm	11.907 ppm	6.951 ppm
Concentration per Run 2	0.013 ppm	11.201 ppm	6.939 ppm
Concentration per Run 3	0.026 ppm	10.900 ppm	6.924 ppm
Concentration RSD	192.9 %	4.6 %	0.2 %
Concentration SD	0.0 ppm	0.5 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	42.7399 ppm	4,017.3344 ppm	7,601.7994 ppm
Concentration per Run 1	42.782 ppm	4,009.560 ppm	7,627.289 ppm
Concentration per Run 2	43.040 ppm	4,012.477 ppm	7,596.098 ppm
Concentration per Run 3	42.398 ppm	4,029.966 ppm	7,582.011 ppm
Concentration RSD	0.8 %	0.3 %	0.3 %
Concentration SD	0.3 ppm	11.0 ppm	23.2 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	8,084.3293 ppm	8.4425 ppm	33,350.7706 ppm
Concentration per Run 1	8,121.108 ppm	8.415 ppm	33,456.130 ppm
Concentration per Run 2	8,076.812 ppm	8.413 ppm	33,342.410 ppm
Concentration per Run 3	8,055.068 ppm	8.499 ppm	33,253.772 ppm
Concentration RSD	0.4 %	0.6 %	0.3 %
Concentration SD	33.7 ppm	0.0 ppm	101.4 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	36,229.7495 ppm	18,009.2436 ppm	542.8417 ppm
Concentration per Run 1	36,344.119 ppm	18,095.010 ppm	543.037 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	36,220.632 ppm	18,020.107 ppm	543.316 ppm
Concentration per Run 3	36,124.498 ppm	17,912.613 ppm	542.172 ppm
Concentration RSD	0.3 %	0.5 %	0.1 %
Concentration SD	110.1 ppm	91.7 ppm	0.6 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	96.4144 ppm	133.1426 ppm	0.2240 ppm
Concentration per Run 1	96.604 ppm	142.391 ppm	0.044 ppm
Concentration per Run 2	95.431 ppm	137.721 ppm	0.234 ppm
Concentration per Run 3	97.208 ppm	119.315 ppm	0.394 ppm
Concentration RSD	0.9 %	9.2 %	78.3 %
Concentration SD	0.9 ppm	12.2 ppm	0.2 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.2016 ppm	2.9969 ppm	-0.1604 ppm
Concentration per Run 1	0.209 ppm	2.985 ppm	-0.015 ppm
Concentration per Run 2	0.200 ppm	3.011 ppm	-0.237 ppm
Concentration per Run 3	0.196 ppm	2.995 ppm	-0.229 ppm
Concentration RSD	3.3 %	0.4 %	78.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	219.7315 ppm	8.4841 ppm	55.2812 ppm
Concentration per Run 1	218.767 ppm	9.061 ppm	55.238 ppm
Concentration per Run 2	222.762 ppm	8.422 ppm	55.419 ppm
Concentration per Run 3	217.665 ppm	7.969 ppm	55.187 ppm
Concentration RSD	1.2 %	6.5 %	0.2 %
Concentration SD	2.7 ppm	0.5 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0707 ppm	3.1467 ppm	29.7062 ppm
Concentration per Run 1	0.053 ppm	3.185 ppm	29.716 ppm
Concentration per Run 2	0.082 ppm	3.684 ppm	29.701 ppm
Concentration per Run 3	0.076 ppm	2.571 ppm	29.702 ppm
Concentration RSD	21.8 %	17.7 %	0.0 %
Concentration SD	0.0 ppm	0.6 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	1,471.3295 ppm	0.1165 ppm	172.0658 ppm
Concentration per Run 1	1,466.830 ppm	0.163 ppm	171.423 ppm
Concentration per Run 2	1,489.826 ppm	0.088 ppm	172.816 ppm
Concentration per Run 3	1,457.332 ppm	0.098 ppm	171.958 ppm
Concentration RSD	1.1 %	35.0 %	0.4 %
Concentration SD	16.7 ppm	0.0 ppm	0.7 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	80.0509 %	113.3583 %	94.6509 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	80.135 %	113.109 %	95.213 %
Concentration per Run 2	80.149 %	113.401 %	93.559 %
Concentration per Run 3	79.869 %	113.564 %	95.181 %
Concentration RSD	0.2 %	0.2 %	1.0 %
Concentration SD	0.2 %	0.2 %	0.9 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	91.1871 %	27.5704 ppm
Concentration per Run 1	91.266 %	29.065 ppm
Concentration per Run 2	91.318 %	27.318 ppm
Concentration per Run 3	90.977 %	26.328 ppm
Concentration RSD	0.2 %	5.0 %
Concentration SD	0.2 %	1.4 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	7 cps	1,360 cps	11 cps	416 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	48 cps	1 cps	-16 cps	67 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	116 cps	2,120 cps	2,678 cps	42,234 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1,798 cps	990 cps	159,396 cps	85,970 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	8,290 cps	2,843 cps	1,362 cps	39 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	37 cps	138 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	114,282 cps	40 cps	810 cps	6 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	11 cps	6,492 cps	34,046 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	401 cps	4,026 cps	8,197 cps	160,693 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,127 cps	96 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	2.1841 ppm	14.6700 ppm	0.0941 ppm
Concentration per Run 1	2.215 ppm	14.644 ppm	0.102 ppm
Concentration per Run 2	2.248 ppm	14.579 ppm	0.115 ppm
Concentration per Run 3	2.089 ppm	14.786 ppm	0.065 ppm
Concentration RSD	3.8 %	0.7 %	27.6 %
Concentration SD	0.1 ppm	0.1 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	4.1843 ppm	4.2985 ppm	0.3430 ppm
Concentration per Run 1	4.235 ppm	4.288 ppm	0.286 ppm
Concentration per Run 2	4.168 ppm	4.382 ppm	0.683 ppm
Concentration per Run 3	4.150 ppm	4.226 ppm	0.060 ppm
Concentration RSD	1.1 %	1.8 %	92.0 %
Concentration SD	0.0 ppm	0.1 ppm	0.3 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	-0.0342 ppm	9.2347 ppm	5.5633 ppm
Concentration per Run 1	0.038 ppm	9.506 ppm	5.572 ppm
Concentration per Run 2	-0.059 ppm	8.893 ppm	5.562 ppm
Concentration per Run 3	-0.081 ppm	9.305 ppm	5.555 ppm
Concentration RSD	185.3 %	3.4 %	0.1 %
Concentration SD	0.1 ppm	0.3 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	23.5298 ppm	2,791.3433 ppm	7,987.1807 ppm
Concentration per Run 1	23.528 ppm	2,791.796 ppm	8,013.699 ppm
Concentration per Run 2	23.448 ppm	2,788.814 ppm	7,991.160 ppm
Concentration per Run 3	23.613 ppm	2,793.420 ppm	7,956.683 ppm
Concentration RSD	0.4 %	0.1 %	0.4 %
Concentration SD	0.1 ppm	2.3 ppm	28.7 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	8,522.0708 ppm	4.4960 ppm	11,484.7602 ppm
Concentration per Run 1	8,589.973 ppm	4.451 ppm	11,525.694 ppm
Concentration per Run 2	8,524.766 ppm	4.545 ppm	11,501.759 ppm
Concentration per Run 3	8,451.474 ppm	4.491 ppm	11,426.828 ppm
Concentration RSD	0.8 %	1.1 %	0.4 %
Concentration SD	69.3 ppm	0.0 ppm	51.6 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	12,358.4385 ppm	5,173.4212 ppm	286.5371 ppm
Concentration per Run 1	12,391.033 ppm	5,213.583 ppm	287.674 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	12,367.979 ppm	5,186.205 ppm	287.440 ppm
Concentration per Run 3	12,316.303 ppm	5,120.476 ppm	284.497 ppm
Concentration RSD	0.3 %	0.9 %	0.6 %
Concentration SD	38.3 ppm	47.9 ppm	1.8 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	49.8472 ppm	90.5852 ppm	0.1771 ppm
Concentration per Run 1	49.504 ppm	88.414 ppm	0.085 ppm
Concentration per Run 2	49.994 ppm	85.818 ppm	0.243 ppm
Concentration per Run 3	50.043 ppm	97.524 ppm	0.204 ppm
Concentration RSD	0.6 %	6.8 %	46.5 %
Concentration SD	0.3 ppm	6.1 ppm	0.1 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.1904 ppm	2.1637 ppm	0.1877 ppm
Concentration per Run 1	0.192 ppm	2.164 ppm	0.335 ppm
Concentration per Run 2	0.185 ppm	2.150 ppm	0.289 ppm
Concentration per Run 3	0.194 ppm	2.178 ppm	-0.061 ppm
Concentration RSD	2.4 %	0.6 %	115.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.2 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	152.1253 ppm	8.6884 ppm	38.2093 ppm
Concentration per Run 1	152.008 ppm	8.646 ppm	38.438 ppm
Concentration per Run 2	152.464 ppm	8.908 ppm	38.300 ppm
Concentration per Run 3	151.903 ppm	8.511 ppm	37.890 ppm
Concentration RSD	0.2 %	2.3 %	0.7 %
Concentration SD	0.3 ppm	0.2 ppm	0.3 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0075 ppm	0.9888 ppm	13.6272 ppm
Concentration per Run 1	-0.001 ppm	0.193 ppm	13.627 ppm
Concentration per Run 2	0.016 ppm	1.364 ppm	13.620 ppm
Concentration per Run 3	0.008 ppm	1.409 ppm	13.635 ppm
Concentration RSD	114.3 %	69.7 %	0.1 %
Concentration SD	0.0 ppm	0.7 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	830.2101 ppm	0.0516 ppm	49.0284 ppm
Concentration per Run 1	830.956 ppm	0.077 ppm	48.584 ppm
Concentration per Run 2	829.378 ppm	0.020 ppm	49.913 ppm
Concentration per Run 3	830.296 ppm	0.058 ppm	48.588 ppm
Concentration RSD	0.1 %	56.3 %	1.6 %
Concentration SD	0.8 ppm	0.0 ppm	0.8 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	87.8819 %	117.6966 %	101.6434 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	87.908 %	117.642 %	101.755 %
Concentration per Run 2	88.307 %	117.253 %	101.559 %
Concentration per Run 3	87.431 %	118.195 %	101.616 %
Concentration RSD	0.5 %	0.4 %	0.1 %
Concentration SD	0.4 %	0.5 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	97.8552 %	28.1451 ppm
Concentration per Run 1	97.902 %	24.184 ppm
Concentration per Run 2	98.430 %	32.146 ppm
Concentration per Run 3	97.233 %	28.105 ppm
Concentration RSD	0.6 %	14.1 %
Concentration SD	0.6 %	4.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	9 cps	1,077 cps	10 cps	397 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	30 cps	1 cps	-22 cps	59 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	103 cps	1,278 cps	1,974 cps	46,995 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2,007 cps	563 cps	58,176 cps	31,074 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	2,522 cps	1,640 cps	721 cps	-3 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	37 cps	111 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	86,677 cps	43 cps	593 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	5 cps	3,137 cps	21,061 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	125 cps	4,420 cps	8,511 cps	172,564 cps

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	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,306 cps	99 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.1525 ppm	21.7181 ppm	0.0314 ppm
Concentration per Run 1	0.172 ppm	21.749 ppm	0.016 ppm
Concentration per Run 2	0.177 ppm	21.731 ppm	0.049 ppm
Concentration per Run 3	0.109 ppm	21.674 ppm	0.030 ppm
Concentration RSD	24.9 %	0.2 %	53.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	239.6636 ppm	1.3698 ppm	0.5160 ppm
Concentration per Run 1	239.509 ppm	1.454 ppm	0.336 ppm
Concentration per Run 2	239.963 ppm	1.379 ppm	0.731 ppm
Concentration per Run 3	239.518 ppm	1.276 ppm	0.481 ppm
Concentration RSD	0.1 %	6.5 %	38.8 %
Concentration SD	0.3 ppm	0.1 ppm	0.2 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	3.3547 ppm	223.4911 ppm	16.8199 ppm
Concentration per Run 1	3.383 ppm	221.830 ppm	16.821 ppm
Concentration per Run 2	3.315 ppm	224.673 ppm	16.805 ppm
Concentration per Run 3	3.366 ppm	223.970 ppm	16.834 ppm
Concentration RSD	1.1 %	0.7 %	0.1 %
Concentration SD	0.0 ppm	1.5 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1,409.3261 ppm	235.9624 ppm	895.1374 ppm
Concentration per Run 1	1,411.017 ppm	238.736 ppm	898.808 ppm
Concentration per Run 2	1,410.449 ppm	238.594 ppm	894.875 ppm
Concentration per Run 3	1,406.512 ppm	230.557 ppm	891.729 ppm
Concentration RSD	0.2 %	2.0 %	0.4 %
Concentration SD	2.5 ppm	4.7 ppm	3.5 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	927.1726 ppm	0.0906 ppm	1,157.6492 ppm
Concentration per Run 1	932.490 ppm	0.051 ppm	1,159.591 ppm
Concentration per Run 2	934.421 ppm	0.098 ppm	1,158.066 ppm
Concentration per Run 3	914.607 ppm	0.123 ppm	1,155.291 ppm
Concentration RSD	1.2 %	40.7 %	0.2 %
Concentration SD	10.9 ppm	0.0 ppm	2.2 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	1,236.1744 ppm	138.8484 ppm	80.8919 ppm
Concentration per Run 1	1,235.617 ppm	139.436 ppm	81.104 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	1,235.984 ppm	138.496 ppm	79.957 ppm
Concentration per Run 3	1,236.922 ppm	138.613 ppm	81.615 ppm
Concentration RSD	0.1 %	0.4 %	1.0 %
Concentration SD	0.7 ppm	0.5 ppm	0.8 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	105.6484 ppm	126.6898 ppm	8.6119 ppm
Concentration per Run 1	105.743 ppm	146.052 ppm	8.757 ppm
Concentration per Run 2	105.077 ppm	125.707 ppm	8.496 ppm
Concentration per Run 3	106.125 ppm	108.311 ppm	8.583 ppm
Concentration RSD	0.5 %	14.9 %	1.5 %
Concentration SD	0.5 ppm	18.9 ppm	0.1 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0126 ppm	0.8991 ppm	0.0492 ppm
Concentration per Run 1	0.015 ppm	0.910 ppm	0.021 ppm
Concentration per Run 2	0.021 ppm	0.899 ppm	0.161 ppm
Concentration per Run 3	0.002 ppm	0.888 ppm	-0.035 ppm
Concentration RSD	78.2 %	1.2 %	204.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	13.5707 ppm	0.9893 ppm	27.0166 ppm
Concentration per Run 1	13.583 ppm	0.957 ppm	27.088 ppm
Concentration per Run 2	13.518 ppm	0.783 ppm	27.108 ppm
Concentration per Run 3	13.611 ppm	1.228 ppm	26.854 ppm
Concentration RSD	0.3 %	22.7 %	0.5 %
Concentration SD	0.0 ppm	0.2 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	3.4405 ppm	3.9681 ppm	23.5115 ppm
Concentration per Run 1	3.445 ppm	3.358 ppm	23.525 ppm
Concentration per Run 2	3.440 ppm	3.651 ppm	23.530 ppm
Concentration per Run 3	3.436 ppm	4.895 ppm	23.479 ppm
Concentration RSD	0.1 %	20.6 %	0.1 %
Concentration SD	0.0 ppm	0.8 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	313.1603 ppm	0.6280 ppm	873.7468 ppm
Concentration per Run 1	312.232 ppm	0.659 ppm	874.942 ppm
Concentration per Run 2	312.863 ppm	0.588 ppm	873.382 ppm
Concentration per Run 3	314.386 ppm	0.637 ppm	872.916 ppm
Concentration RSD	0.4 %	5.8 %	0.1 %
Concentration SD	1.1 ppm	0.0 ppm	1.1 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	99.5823 %	118.1263 %	105.2565 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	99.627 %	118.451 %	105.151 %
Concentration per Run 2	99.601 %	117.833 %	105.200 %
Concentration per Run 3	99.519 %	118.095 %	105.419 %
Concentration RSD	0.1 %	0.3 %	0.1 %
Concentration SD	0.1 %	0.3 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	99.2716 %	0.5892 ppm
Concentration per Run 1	99.251 %	1.373 ppm
Concentration per Run 2	99.269 %	-1.411 ppm
Concentration per Run 3	99.295 %	1.806 ppm
Concentration RSD	0.0 %	296.3 %
Concentration SD	0.0 %	1.7 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	1,679 cps	4 cps	24,319 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	10 cps	1 cps	316 cps	1,237 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	376 cps	80,630 cps	187 cps	5,494 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	229 cps	22 cps	6,179 cps	3,266 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	71 cps	560 cps	1,658 cps	42 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	49 cps	-2 cps	53 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	8,338 cps	5 cps	437 cps	149 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	15 cps	5,670 cps	8,575 cps	9 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2,356 cps	5,008 cps	8,542 cps	178,698 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,556 cps	22 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	3.5195 ppm	97.3865 ppm	1.5647 ppm
Concentration per Run 1	3.418 ppm	97.358 ppm	1.557 ppm
Concentration per Run 2	3.475 ppm	97.352 ppm	1.546 ppm
Concentration per Run 3	3.665 ppm	97.449 ppm	1.591 ppm
Concentration RSD	3.7 %	0.1 %	1.5 %
Concentration SD	0.1 ppm	0.1 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	8.0364 ppm	118.1674 ppm	0.7177 ppm
Concentration per Run 1	8.014 ppm	118.236 ppm	1.071 ppm
Concentration per Run 2	8.069 ppm	117.999 ppm	0.405 ppm
Concentration per Run 3	8.027 ppm	118.267 ppm	0.678 ppm
Concentration RSD	0.4 %	0.1 %	46.6 %
Concentration SD	0.0 ppm	0.1 ppm	0.3 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0393 ppm	14.4071 ppm	7.2495 ppm
Concentration per Run 1	-0.008 ppm	14.633 ppm	7.215 ppm
Concentration per Run 2	0.024 ppm	14.208 ppm	7.303 ppm
Concentration per Run 3	0.102 ppm	14.380 ppm	7.230 ppm
Concentration RSD	144.5 %	1.5 %	0.7 %
Concentration SD	0.1 ppm	0.2 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	211.5204 ppm	4,731.7616 ppm	9,012.9930 ppm
Concentration per Run 1	211.428 ppm	4,734.568 ppm	9,014.005 ppm
Concentration per Run 2	211.202 ppm	4,735.613 ppm	9,044.994 ppm
Concentration per Run 3	211.932 ppm	4,725.103 ppm	8,979.980 ppm
Concentration RSD	0.2 %	0.1 %	0.4 %
Concentration SD	0.4 ppm	5.8 ppm	32.5 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	9,675.9246 ppm	3.8690 ppm	20,094.3873 ppm
Concentration per Run 1	9,653.081 ppm	3.946 ppm	20,081.931 ppm
Concentration per Run 2	9,688.066 ppm	3.839 ppm	20,160.267 ppm
Concentration per Run 3	9,686.627 ppm	3.823 ppm	20,040.963 ppm
Concentration RSD	0.2 %	1.7 %	0.3 %
Concentration SD	19.8 ppm	0.1 ppm	60.6 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	21,666.7586 ppm	1,527.5105 ppm	2,101.6568 ppm
Concentration per Run 1	21,648.831 ppm	1,526.426 ppm	2,106.807 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	21,746.073 ppm	1,528.742 ppm	2,102.910 ppm
Concentration per Run 3	21,605.372 ppm	1,527.363 ppm	2,095.254 ppm
Concentration RSD	0.3 %	0.1 %	0.3 %
Concentration SD	72.0 ppm	1.2 ppm	5.9 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	218.3749 ppm	266.5289 ppm	0.7687 ppm
Concentration per Run 1	217.498 ppm	274.406 ppm	0.594 ppm
Concentration per Run 2	219.597 ppm	269.895 ppm	0.810 ppm
Concentration per Run 3	218.030 ppm	255.285 ppm	0.902 ppm
Concentration RSD	0.5 %	3.8 %	20.6 %
Concentration SD	1.1 ppm	10.0 ppm	0.2 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.3159 ppm	3.4866 ppm	-0.0187 ppm
Concentration per Run 1	0.314 ppm	3.496 ppm	0.027 ppm
Concentration per Run 2	0.316 ppm	3.465 ppm	-0.060 ppm
Concentration per Run 3	0.318 ppm	3.499 ppm	-0.023 ppm
Concentration RSD	0.7 %	0.5 %	232.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	241.9778 ppm	19.9957 ppm	174.7167 ppm
Concentration per Run 1	242.544 ppm	20.472 ppm	174.382 ppm
Concentration per Run 2	242.364 ppm	20.033 ppm	175.690 ppm
Concentration per Run 3	241.025 ppm	19.483 ppm	174.078 ppm
Concentration RSD	0.3 %	2.5 %	0.5 %
Concentration SD	0.8 ppm	0.5 ppm	0.9 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.5425 ppm	7.1779 ppm	69.4093 ppm
Concentration per Run 1	0.551 ppm	7.144 ppm	69.533 ppm
Concentration per Run 2	0.521 ppm	6.896 ppm	69.630 ppm
Concentration per Run 3	0.555 ppm	7.494 ppm	69.065 ppm
Concentration RSD	3.4 %	4.2 %	0.4 %
Concentration SD	0.0 ppm	0.3 ppm	0.3 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	3,212.5835 ppm	38.0731 ppm	670.7768 ppm
Concentration per Run 1	3,215.288 ppm	38.017 ppm	671.101 ppm
Concentration per Run 2	3,213.273 ppm	38.181 ppm	671.769 ppm
Concentration per Run 3	3,209.190 ppm	38.021 ppm	669.461 ppm
Concentration RSD	0.1 %	0.2 %	0.2 %
Concentration SD	3.1 ppm	0.1 ppm	1.2 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	84.8814 %	117.3186 %	99.1949 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	84.884 %	117.158 %	99.377 %
Concentration per Run 2	84.951 %	116.944 %	99.325 %
Concentration per Run 3	84.809 %	117.854 %	98.883 %
Concentration RSD	0.1 %	0.4 %	0.3 %
Concentration SD	0.1 %	0.5 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	95.4545 %	36.6677 ppm
Concentration per Run 1	95.479 %	37.727 ppm
Concentration per Run 2	95.599 %	36.648 ppm
Concentration per Run 3	95.285 %	35.628 ppm
Concentration RSD	0.2 %	2.9 %
Concentration SD	0.2 %	1.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	17 cps	7,500 cps	142 cps	800 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	914 cps	2 cps	-14 cps	92 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	141 cps	12,076 cps	3,586 cps	57,005 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2,449 cps	521 cps	109,357 cps	58,539 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	801 cps	12,177 cps	3,593 cps	211 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	5 cps	69 cps	188 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	145,092 cps	107 cps	2,917 cps	26 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	26 cps	17,315 cps	85,647 cps	442 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,804 cps	4,269 cps	8,484 cps	168,407 cps

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	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,881 cps	130 cps

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L795082-03 WG822515

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	3.4638 ppm	143.2483 ppm	2.1273 ppm
Concentration per Run 1	3.287 ppm	143.268 ppm	2.117 ppm
Concentration per Run 2	3.571 ppm	143.241 ppm	2.156 ppm
Concentration per Run 3	3.533 ppm	143.237 ppm	2.109 ppm
Concentration RSD	4.4 %	0.0 %	1.2 %
Concentration SD	0.2 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	16.6919 ppm	70.9548 ppm	0.4235 ppm
Concentration per Run 1	16.738 ppm	70.891 ppm	0.569 ppm
Concentration per Run 2	16.692 ppm	71.021 ppm	0.558 ppm
Concentration per Run 3	16.645 ppm	70.953 ppm	0.144 ppm
Concentration RSD	0.3 %	0.1 %	57.3 %
Concentration SD	0.0 ppm	0.1 ppm	0.2 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.2289 ppm	28.6461 ppm	14.5326 ppm
Concentration per Run 1	0.282 ppm	29.065 ppm	14.416 ppm
Concentration per Run 2	0.210 ppm	28.714 ppm	14.631 ppm
Concentration per Run 3	0.195 ppm	28.159 ppm	14.551 ppm
Concentration RSD	20.3 %	1.6 %	0.7 %
Concentration SD	0.0 ppm	0.5 ppm	0.1 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	144.9185 ppm	6,896.3715 ppm	37,223.2533 ppm
Concentration per Run 1	144.719 ppm	6,892.328 ppm	37,233.395 ppm
Concentration per Run 2	145.081 ppm	6,893.656 ppm	37,183.032 ppm
Concentration per Run 3	144.955 ppm	6,903.130 ppm	37,253.333 ppm
Concentration RSD	0.1 %	0.1 %	0.1 %
Concentration SD	0.2 ppm	5.9 ppm	36.2 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	42,092.6493 ppm	5.6902 ppm	22,543.4796 ppm
Concentration per Run 1	42,070.821 ppm	5.696 ppm	22,567.039 ppm
Concentration per Run 2	42,061.048 ppm	5.666 ppm	22,527.706 ppm
Concentration per Run 3	42,146.079 ppm	5.709 ppm	22,535.694 ppm
Concentration RSD	0.1 %	0.4 %	0.1 %
Concentration SD	46.5 ppm	0.0 ppm	20.8 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	24,461.6816 ppm	2,124.9612 ppm	2,961.1647 ppm
Concentration per Run 1	24,495.204 ppm	2,120.539 ppm	2,963.797 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	24,437.251 ppm	2,121.016 ppm	2,959.158 ppm
Concentration per Run 3	24,452.591 ppm	2,133.328 ppm	2,960.539 ppm
Concentration RSD	0.1 %	0.3 %	0.1 %
Concentration SD	30.0 ppm	7.2 ppm	2.4 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	357.0278 ppm	440.0049 ppm	2.2153 ppm
Concentration per Run 1	356.686 ppm	444.163 ppm	2.029 ppm
Concentration per Run 2	358.262 ppm	449.006 ppm	2.368 ppm
Concentration per Run 3	356.136 ppm	426.846 ppm	2.249 ppm
Concentration RSD	0.3 %	2.6 %	7.8 %
Concentration SD	1.1 ppm	11.7 ppm	0.2 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.3446 ppm	4.3900 ppm	0.0375 ppm
Concentration per Run 1	0.342 ppm	4.399 ppm	0.065 ppm
Concentration per Run 2	0.358 ppm	4.357 ppm	-0.114 ppm
Concentration per Run 3	0.334 ppm	4.415 ppm	0.162 ppm
Concentration RSD	3.6 %	0.7 %	373.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	397.6480 ppm	27.2227 ppm	146.3158 ppm
Concentration per Run 1	397.089 ppm	27.113 ppm	146.320 ppm
Concentration per Run 2	398.629 ppm	27.054 ppm	146.066 ppm
Concentration per Run 3	397.225 ppm	27.501 ppm	146.561 ppm
Concentration RSD	0.2 %	0.9 %	0.2 %
Concentration SD	0.9 ppm	0.2 ppm	0.2 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.1119 ppm	10.6444 ppm	75.0746 ppm
Concentration per Run 1	1.073 ppm	10.097 ppm	75.132 ppm
Concentration per Run 2	1.121 ppm	11.195 ppm	74.852 ppm
Concentration per Run 3	1.142 ppm	10.642 ppm	75.239 ppm
Concentration RSD	3.2 %	5.2 %	0.3 %
Concentration SD	0.0 ppm	0.5 ppm	0.2 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	2,818.7930 ppm	32.2642 ppm	1,415.3282 ppm
Concentration per Run 1	2,813.244 ppm	32.240 ppm	1,414.685 ppm
Concentration per Run 2	2,825.178 ppm	32.294 ppm	1,414.776 ppm
Concentration per Run 3	2,817.957 ppm	32.259 ppm	1,416.523 ppm
Concentration RSD	0.2 %	0.1 %	0.1 %
Concentration SD	6.0 ppm	0.0 ppm	1.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	79.8468 %	116.1292 %	96.9013 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	79.878 %	115.918 %	96.865 %
Concentration per Run 2	79.878 %	116.751 %	96.832 %
Concentration per Run 3	79.785 %	115.718 %	97.007 %
Concentration RSD	0.1 %	0.5 %	0.1 %
Concentration SD	0.1 %	0.5 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	92.3605 %	48.2784 ppm
Concentration per Run 1	92.401 %	48.518 ppm
Concentration per Run 2	92.378 %	48.308 ppm
Concentration per Run 3	92.303 %	48.009 ppm
Concentration RSD	0.1 %	0.5 %
Concentration SD	0.1 %	0.3 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	15 cps	9,897 cps	173 cps	1,503 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	478 cps	1 cps	3 cps	159 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	250 cps	7,424 cps	4,793 cps	216,093 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	9,775 cps	700 cps	112,607 cps	60,662 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1,022 cps	15,715 cps	5,419 cps	372 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	12 cps	69 cps	207 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	215,970 cps	133 cps	2,242 cps	45 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	35 cps	17,191 cps	68,079 cps	336 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	3,416 cps	4,015 cps	8,398 cps	164,513 cps

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	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,334 cps	155 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	3.1048 ppm	124.5218 ppm	2.3654 ppm
Concentration per Run 1	3.064 ppm	124.378 ppm	2.376 ppm
Concentration per Run 2	3.342 ppm	124.679 ppm	2.362 ppm
Concentration per Run 3	2.909 ppm	124.509 ppm	2.358 ppm
Concentration RSD	7.1 %	0.1 %	0.4 %
Concentration SD	0.2 ppm	0.2 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	14.6313 ppm	202.1492 ppm	0.3920 ppm
Concentration per Run 1	14.557 ppm	202.358 ppm	0.460 ppm
Concentration per Run 2	14.699 ppm	202.844 ppm	0.300 ppm
Concentration per Run 3	14.638 ppm	201.245 ppm	0.416 ppm
Concentration RSD	0.5 %	0.4 %	21.1 %
Concentration SD	0.1 ppm	0.8 ppm	0.1 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.2629 ppm	34.5248 ppm	8.9136 ppm
Concentration per Run 1	0.323 ppm	34.844 ppm	8.914 ppm
Concentration per Run 2	0.222 ppm	34.500 ppm	8.910 ppm
Concentration per Run 3	0.244 ppm	34.231 ppm	8.917 ppm
Concentration RSD	20.2 %	0.9 %	0.0 %
Concentration SD	0.1 ppm	0.3 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	224.7550 ppm	5,392.1634 ppm	16,886.1670 ppm
Concentration per Run 1	224.983 ppm	5,364.517 ppm	16,875.880 ppm
Concentration per Run 2	224.950 ppm	5,398.716 ppm	16,844.719 ppm
Concentration per Run 3	224.332 ppm	5,413.257 ppm	16,937.902 ppm
Concentration RSD	0.2 %	0.5 %	0.3 %
Concentration SD	0.4 ppm	25.0 ppm	47.4 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	18,344.1831 ppm	3.2094 ppm	9,857.2882 ppm
Concentration per Run 1	18,329.849 ppm	3.345 ppm	9,853.164 ppm
Concentration per Run 2	18,313.369 ppm	3.139 ppm	9,830.666 ppm
Concentration per Run 3	18,389.332 ppm	3.143 ppm	9,888.035 ppm
Concentration RSD	0.2 %	3.7 %	0.3 %
Concentration SD	40.0 ppm	0.1 ppm	28.9 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	10,650.7624 ppm	1,457.3919 ppm	1,799.1592 ppm
Concentration per Run 1	10,637.497 ppm	1,448.297 ppm	1,797.396 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	10,629.355 ppm	1,459.744 ppm	1,800.008 ppm
Concentration per Run 3	10,685.435 ppm	1,464.135 ppm	1,800.074 ppm
Concentration RSD	0.3 %	0.6 %	0.1 %
Concentration SD	30.3 ppm	8.2 ppm	1.5 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	401.3122 ppm	480.7443 ppm	1.2467 ppm
Concentration per Run 1	401.646 ppm	467.792 ppm	1.368 ppm
Concentration per Run 2	401.397 ppm	499.044 ppm	1.154 ppm
Concentration per Run 3	400.894 ppm	475.397 ppm	1.218 ppm
Concentration RSD	0.1 %	3.4 %	8.8 %
Concentration SD	0.4 ppm	16.3 ppm	0.1 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.2346 ppm	2.5552 ppm	0.0654 ppm
Concentration per Run 1	0.239 ppm	2.551 ppm	0.188 ppm
Concentration per Run 2	0.223 ppm	2.563 ppm	0.060 ppm
Concentration per Run 3	0.243 ppm	2.551 ppm	-0.052 ppm
Concentration RSD	4.5 %	0.3 %	183.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	188.4138 ppm	15.5105 ppm	104.5631 ppm
Concentration per Run 1	188.114 ppm	15.504 ppm	105.038 ppm
Concentration per Run 2	188.645 ppm	15.065 ppm	104.174 ppm
Concentration per Run 3	188.483 ppm	15.962 ppm	104.478 ppm
Concentration RSD	0.1 %	2.9 %	0.4 %
Concentration SD	0.3 ppm	0.4 ppm	0.4 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.2772 ppm	10.7052 ppm	43.1323 ppm
Concentration per Run 1	1.240 ppm	10.404 ppm	43.139 ppm
Concentration per Run 2	1.309 ppm	10.059 ppm	43.061 ppm
Concentration per Run 3	1.283 ppm	11.653 ppm	43.197 ppm
Concentration RSD	2.7 %	7.8 %	0.2 %
Concentration SD	0.0 ppm	0.8 ppm	0.1 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	2,457.0206 ppm	24.6716 ppm	997.8596 ppm
Concentration per Run 1	2,452.721 ppm	24.762 ppm	998.307 ppm
Concentration per Run 2	2,459.013 ppm	24.654 ppm	1,001.052 ppm
Concentration per Run 3	2,459.328 ppm	24.599 ppm	994.219 ppm
Concentration RSD	0.2 %	0.3 %	0.3 %
Concentration SD	3.7 ppm	0.1 ppm	3.4 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	87.3945 %	118.4002 %	100.1280 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	87.650 %	119.055 %	100.318 %
Concentration per Run 2	87.320 %	118.947 %	99.736 %
Concentration per Run 3	87.214 %	117.199 %	100.331 %
Concentration RSD	0.3 %	0.9 %	0.3 %
Concentration SD	0.2 %	1.0 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	95.6380 %	26.0714 ppm
Concentration per Run 1	95.959 %	27.884 ppm
Concentration per Run 2	95.607 %	25.036 ppm
Concentration per Run 3	95.348 %	25.294 ppm
Concentration RSD	0.3 %	6.0 %
Concentration SD	0.3 %	1.6 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	13 cps	8,734 cps	195 cps	1,335 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1,465 cps	1 cps	5 cps	190 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	163 cps	11,688 cps	3,749 cps	97,986 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	4,259 cps	399 cps	49,256 cps	26,416 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	701 cps	9,588 cps	6,094 cps	414 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	7 cps	46 cps	128 cps	-2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	103,675 cps	76 cps	1,601 cps	52 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	35 cps	9,859 cps	60,121 cps	262 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	2,445 cps	4,395 cps	8,562 cps	169,991 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,914 cps	91 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	5.1447 ppm	124.6369 ppm	1.5331 ppm
Concentration per Run 1	5.176 ppm	124.641 ppm	1.534 ppm
Concentration per Run 2	5.103 ppm	124.593 ppm	1.525 ppm
Concentration per Run 3	5.155 ppm	124.677 ppm	1.540 ppm
Concentration RSD	0.7 %	0.0 %	0.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	14.9088 ppm	103.5582 ppm	0.8226 ppm
Concentration per Run 1	15.213 ppm	103.540 ppm	0.454 ppm
Concentration per Run 2	14.726 ppm	103.724 ppm	1.134 ppm
Concentration per Run 3	14.787 ppm	103.411 ppm	0.880 ppm
Concentration RSD	1.8 %	0.2 %	41.8 %
Concentration SD	0.3 ppm	0.2 ppm	0.3 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.1080 ppm	23.4343 ppm	11.8147 ppm
Concentration per Run 1	0.133 ppm	23.297 ppm	11.767 ppm
Concentration per Run 2	0.039 ppm	23.200 ppm	11.881 ppm
Concentration per Run 3	0.153 ppm	23.806 ppm	11.796 ppm
Concentration RSD	56.4 %	1.4 %	0.5 %
Concentration SD	0.1 ppm	0.3 ppm	0.1 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	214.9591 ppm	8,540.4382 ppm	16,456.5244 ppm
Concentration per Run 1	215.211 ppm	8,544.808 ppm	16,511.696 ppm
Concentration per Run 2	215.108 ppm	8,542.609 ppm	16,456.050 ppm
Concentration per Run 3	214.558 ppm	8,533.898 ppm	16,401.827 ppm
Concentration RSD	0.2 %	0.1 %	0.3 %
Concentration SD	0.4 ppm	5.8 ppm	54.9 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	17,812.5255 ppm	5.9448 ppm	8,569.3406 ppm
Concentration per Run 1	17,788.489 ppm	5.941 ppm	8,605.645 ppm
Concentration per Run 2	17,859.674 ppm	5.939 ppm	8,567.078 ppm
Concentration per Run 3	17,789.414 ppm	5.955 ppm	8,535.299 ppm
Concentration RSD	0.2 %	0.1 %	0.4 %
Concentration SD	40.8 ppm	0.0 ppm	35.2 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	9,252.3609 ppm	2,183.9678 ppm	3,860.6691 ppm
Concentration per Run 1	9,289.964 ppm	2,180.904 ppm	3,879.920 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	9,258.334 ppm	2,190.924 ppm	3,863.196 ppm
Concentration per Run 3	9,208.785 ppm	2,180.075 ppm	3,838.891 ppm
Concentration RSD	0.4 %	0.3 %	0.5 %
Concentration SD	40.9 ppm	6.0 ppm	20.6 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	421.3668 ppm	492.3224 ppm	1.5577 ppm
Concentration per Run 1	421.956 ppm	486.096 ppm	1.597 ppm
Concentration per Run 2	421.648 ppm	493.682 ppm	1.572 ppm
Concentration per Run 3	420.497 ppm	497.189 ppm	1.504 ppm
Concentration RSD	0.2 %	1.2 %	3.1 %
Concentration SD	0.8 ppm	5.7 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.4452 ppm	5.6008 ppm	-0.1040 ppm
Concentration per Run 1	0.438 ppm	5.592 ppm	-0.104 ppm
Concentration per Run 2	0.453 ppm	5.605 ppm	-0.099 ppm
Concentration per Run 3	0.445 ppm	5.606 ppm	-0.109 ppm
Concentration RSD	1.8 %	0.1 %	5.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	183.1881 ppm	24.2054 ppm	240.8130 ppm
Concentration per Run 1	184.172 ppm	23.969 ppm	240.631 ppm
Concentration per Run 2	181.441 ppm	24.485 ppm	240.821 ppm
Concentration per Run 3	183.951 ppm	24.162 ppm	240.987 ppm
Concentration RSD	0.8 %	1.1 %	0.1 %
Concentration SD	1.5 ppm	0.3 ppm	0.2 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	1.1366 ppm	10.9609 ppm	54.6518 ppm
Concentration per Run 1	1.136 ppm	11.117 ppm	54.851 ppm
Concentration per Run 2	1.156 ppm	10.332 ppm	54.521 ppm
Concentration per Run 3	1.117 ppm	11.433 ppm	54.583 ppm
Concentration RSD	1.7 %	5.2 %	0.3 %
Concentration SD	0.0 ppm	0.6 ppm	0.2 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	3,976.2058 ppm	35.2104 ppm	1,305.6277 ppm
Concentration per Run 1	3,991.940 ppm	34.965 ppm	1,302.336 ppm
Concentration per Run 2	3,945.942 ppm	35.438 ppm	1,308.121 ppm
Concentration per Run 3	3,990.735 ppm	35.228 ppm	1,306.426 ppm
Concentration RSD	0.7 %	0.7 %	0.2 %
Concentration SD	26.2 ppm	0.2 ppm	3.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	85.0055 %	117.7743 %	99.6512 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	84.996 %	117.187 %	99.143 %
Concentration per Run 2	84.991 %	117.637 %	100.234 %
Concentration per Run 3	85.029 %	118.499 %	99.577 %
Concentration RSD	0.0 %	0.6 %	0.6 %
Concentration SD	0.0 %	0.7 %	0.5 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	95.4504 %	46.5565 ppm
Concentration per Run 1	95.545 %	47.723 ppm
Concentration per Run 2	95.358 %	47.096 ppm
Concentration per Run 3	95.449 %	44.851 ppm
Concentration RSD	0.1 %	3.2 %
Concentration SD	0.1 %	1.5 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	26 cps	9,423 cps	137 cps	1,461 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	788 cps	3 cps	-8 cps	141 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	229 cps	12,049 cps	6,369 cps	102,588 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	4,443 cps	784 cps	46,006 cps	24,654 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1,128 cps	21,959 cps	6,881 cps	466 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	9 cps	97 cps	298 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	108,341 cps	127 cps	3,963 cps	50 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	39 cps	13,431 cps	104,546 cps	401 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	3,449 cps	4,275 cps	8,517 cps	169,182 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,881 cps	157 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	4.2645 ppm	43.2329 ppm	2.5554 ppm
Concentration per Run 1	4.323 ppm	43.491 ppm	2.594 ppm
Concentration per Run 2	4.388 ppm	43.401 ppm	2.560 ppm
Concentration per Run 3	4.082 ppm	42.807 ppm	2.512 ppm
Concentration RSD	3.8 %	0.9 %	1.6 %
Concentration SD	0.2 ppm	0.4 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	25.0122 ppm	12.2065 ppm	0.8805 ppm
Concentration per Run 1	25.152 ppm	12.380 ppm	0.952 ppm
Concentration per Run 2	24.996 ppm	12.279 ppm	0.755 ppm
Concentration per Run 3	24.889 ppm	11.961 ppm	0.935 ppm
Concentration RSD	0.5 %	1.8 %	12.4 %
Concentration SD	0.1 ppm	0.2 ppm	0.1 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.1041 ppm	14.5267 ppm	15.1042 ppm
Concentration per Run 1	0.182 ppm	14.535 ppm	15.158 ppm
Concentration per Run 2	0.028 ppm	14.774 ppm	15.144 ppm
Concentration per Run 3	0.102 ppm	14.271 ppm	15.011 ppm
Concentration RSD	74.1 %	1.7 %	0.5 %
Concentration SD	0.1 ppm	0.3 ppm	0.1 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	53.4042 ppm	2,641.7851 ppm	10,003.1230 ppm
Concentration per Run 1	53.588 ppm	2,651.247 ppm	9,980.675 ppm
Concentration per Run 2	53.776 ppm	2,638.197 ppm	10,015.039 ppm
Concentration per Run 3	52.849 ppm	2,635.911 ppm	10,013.655 ppm
Concentration RSD	0.9 %	0.3 %	0.2 %
Concentration SD	0.5 ppm	8.3 ppm	19.5 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	10,630.8500 ppm	5.2472 ppm	57,152.2196 ppm
Concentration per Run 1	10,673.676 ppm	5.075 ppm	56,885.693 ppm
Concentration per Run 2	10,629.533 ppm	5.319 ppm	56,901.562 ppm
Concentration per Run 3	10,589.341 ppm	5.347 ppm	57,669.403 ppm
Concentration RSD	0.4 %	2.9 %	0.8 %
Concentration SD	42.2 ppm	0.1 ppm	448.0 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	63,471.6877 ppm	30,719.7149 ppm	408.3599 ppm
Concentration per Run 1	63,340.353 ppm	30,683.830 ppm	406.159 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	63,582.333 ppm	30,770.098 ppm	412.323 ppm
Concentration per Run 3	63,492.377 ppm	30,705.217 ppm	406.598 ppm
Concentration RSD	0.2 %	0.1 %	0.8 %
Concentration SD	122.3 ppm	44.9 ppm	3.4 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	386.9937 ppm	420.5339 ppm	0.2063 ppm
Concentration per Run 1	387.236 ppm	428.788 ppm	0.175 ppm
Concentration per Run 2	386.786 ppm	409.370 ppm	0.196 ppm
Concentration per Run 3	386.958 ppm	423.444 ppm	0.248 ppm
Concentration RSD	0.1 %	2.4 %	18.3 %
Concentration SD	0.2 ppm	10.0 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.2559 ppm	5.1484 ppm	-0.1339 ppm
Concentration per Run 1	0.266 ppm	5.193 ppm	-0.293 ppm
Concentration per Run 2	0.260 ppm	5.189 ppm	-0.122 ppm
Concentration per Run 3	0.241 ppm	5.063 ppm	0.013 ppm
Concentration RSD	5.1 %	1.4 %	114.7 %
Concentration SD	0.0 ppm	0.1 ppm	0.2 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	632.1318 ppm	11.2771 ppm	62.2657 ppm
Concentration per Run 1	633.387 ppm	10.961 ppm	61.653 ppm
Concentration per Run 2	632.709 ppm	11.552 ppm	62.729 ppm
Concentration per Run 3	630.300 ppm	11.319 ppm	62.415 ppm
Concentration RSD	0.3 %	2.6 %	0.9 %
Concentration SD	1.6 ppm	0.3 ppm	0.6 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.7844 ppm	3.0284 ppm	45.4453 ppm
Concentration per Run 1	0.804 ppm	3.417 ppm	45.278 ppm
Concentration per Run 2	0.781 ppm	2.988 ppm	45.506 ppm
Concentration per Run 3	0.768 ppm	2.680 ppm	45.552 ppm
Concentration RSD	2.3 %	12.2 %	0.3 %
Concentration SD	0.0 ppm	0.4 ppm	0.1 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	1,371.3369 ppm	0.4037 ppm	149.0757 ppm
Concentration per Run 1	1,372.479 ppm	0.532 ppm	149.902 ppm
Concentration per Run 2	1,372.547 ppm	0.304 ppm	149.969 ppm
Concentration per Run 3	1,368.985 ppm	0.375 ppm	147.356 ppm
Concentration RSD	0.1 %	28.9 %	1.0 %
Concentration SD	2.0 ppm	0.1 ppm	1.5 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	74.8883 %	110.0739 %	90.2941 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	74.992 %	110.384 %	90.008 %
Concentration per Run 2	74.653 %	109.942 %	90.532 %
Concentration per Run 3	75.019 %	109.896 %	90.343 %
Concentration RSD	0.3 %	0.2 %	0.3 %
Concentration SD	0.2 %	0.3 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	86.1608 %	29.8960 ppm
Concentration per Run 1	86.202 %	28.617 ppm
Concentration per Run 2	86.041 %	32.271 ppm
Concentration per Run 3	86.240 %	28.800 ppm
Concentration RSD	0.1 %	6.9 %
Concentration SD	0.1 %	2.1 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	17 cps	2,734 cps	190 cps	2,056 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	74 cps	2 cps	-8 cps	80 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	239 cps	2,503 cps	1,714 cps	53,965 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2,295 cps	601 cps	265,190 cps	146,231 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	13,731 cps	2,102 cps	5,461 cps	324 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	47 cps	223 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	313,632 cps	51 cps	886 cps	30 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	10 cps	9,658 cps	30,276 cps	6 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	329 cps	3,766 cps	7,960 cps	153,296 cps

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	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	15,238 cps	102 cps

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Sample Type QC Analysis Date 10/19/2015 1:49:23 PM

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0253 ppm	0.4952 ppm	0.4991 ppm	0.9444 ppm
Concentration per Run 1	2.022 ppm	0.496 ppm	0.499 ppm	0.941 ppm
Concentration per Run 2	2.027 ppm	0.495 ppm	0.499 ppm	0.945 ppm
Concentration per Run 3	2.028 ppm	0.495 ppm	0.499 ppm	0.946 ppm
Concentration RSD	0.2 %	0.1 %	0.1 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.4682 ppm	2.0741 ppm	0.9313 ppm	1.9104 ppm
Concentration per Run 1	0.469 ppm	2.075 ppm	0.933 ppm	1.919 ppm
Concentration per Run 2	0.469 ppm	2.074 ppm	0.930 ppm	1.904 ppm
Concentration per Run 3	0.467 ppm	2.073 ppm	0.931 ppm	1.908 ppm
Concentration RSD	0.2 %	0.0 %	0.2 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1.9370 ppm	2.8407 ppm	9.7610 ppm	9.6040 ppm
Concentration per Run 1	1.943 ppm	2.847 ppm	9.793 ppm	9.639 ppm
Concentration per Run 2	1.936 ppm	2.843 ppm	9.759 ppm	9.585 ppm
Concentration per Run 3	1.932 ppm	2.832 ppm	9.731 ppm	9.588 ppm
Concentration RSD	0.3 %	0.3 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.1273 ppm	1.3980 ppm	46.0274 ppm	49.4114 ppm
Concentration per Run 1	10.093 ppm	1.400 ppm	46.147 ppm	49.534 ppm
Concentration per Run 2	10.147 ppm	1.396 ppm	45.950 ppm	49.316 ppm
Concentration per Run 3	10.142 ppm	1.398 ppm	45.986 ppm	49.384 ppm
Concentration RSD	0.3 %	0.1 %	0.2 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	9.1192 ppm	49.4991 ppm	45.6025 ppm	48.4676 ppm
Concentration per Run 1	9.142 ppm	49.647 ppm	45.690 ppm	48.726 ppm
Concentration per Run 2	9.108 ppm	49.314 ppm	45.460 ppm	48.211 ppm
Concentration per Run 3	9.108 ppm	49.537 ppm	45.657 ppm	48.466 ppm
Concentration RSD	0.2 %	0.3 %	0.3 %	0.5 %
Concentration SD	0.0 ppm	0.2 ppm	0.1 ppm	0.3 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0039 ppm	0.1974 ppm	0.9595 ppm	1.8382 ppm
Concentration per Run 1	2.008 ppm	0.198 ppm	0.960 ppm	1.837 ppm
Concentration per Run 2	2.003 ppm	0.197 ppm	0.961 ppm	1.840 ppm
Concentration per Run 3	2.000 ppm	0.197 ppm	0.957 ppm	1.837 ppm
Concentration RSD	0.2 %	0.3 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9428 ppm	0.9562 ppm	0.9839 ppm	0.5031 ppm
Concentration per Run 1	0.940 ppm	0.955 ppm	0.987 ppm	0.504 ppm
Concentration per Run 2	0.946 ppm	0.953 ppm	0.982 ppm	0.503 ppm
Concentration per Run 3	0.942 ppm	0.960 ppm	0.983 ppm	0.502 ppm
Concentration RSD	0.3 %	0.4 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.8825 ppm	0.9536 ppm	1.8817 ppm	1.8598 ppm
Concentration per Run 1	1.890 ppm	0.956 ppm	1.876 ppm	1.864 ppm
Concentration per Run 2	1.870 ppm	0.953 ppm	1.887 ppm	1.860 ppm
Concentration per Run 3	1.888 ppm	0.953 ppm	1.883 ppm	1.855 ppm
Concentration RSD	0.6 %	0.2 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	5.4389 ppm	89.1675 %	111.4197 %	97.5771 %
Concentration per Run 1	5.451 ppm	89.031 %	111.079 %	97.921 %
Concentration per Run 2	5.440 ppm	89.115 %	111.940 %	97.297 %
Concentration per Run 3	5.425 ppm	89.356 %	111.241 %	97.513 %
Concentration RSD	0.2 %	0.2 %	0.4 %	0.3 %
Concentration SD	0.0 ppm	0.2 %	0.5 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	94.8579 %	0.0132 ppm
Concentration per Run 1	94.752 %	0.058 ppm
Concentration per Run 2	94.905 %	0.001 ppm
Concentration per Run 3	94.917 %	-0.019 ppm
Concentration RSD	0.1 %	302.4 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,018 cps	3,447 cps	4,057 cps	8,382 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	345 cps	752 cps	8,113 cps	943 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,696 cps	14,651 cps	649 cps	5,245 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	223 cps	15,966 cps	21,679 cps	11,546 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	413 cps	24,643 cps	65,689 cps	4,792 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	997 cps	3,953 cps	4,982 cps	879 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	50,566 cps	441 cps	1,418 cps	1,926 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	556 cps	20,546 cps	4,523 cps	1,944 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,322 cps	4,484 cps	8,057 cps	165,661 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,776 cps	24 cps

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Sample Type QC Analysis Date 10/19/2015 1:52:09 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0012 ppm	0.0000 ppm	0.0000 ppm	-0.0002 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	21.4 %	462.3 %	406.8 %	50.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0006 ppm	0.0054 ppm	0.0004 ppm	-0.0028 ppm
Concentration per Run 1	0.001 ppm	0.005 ppm	0.000 ppm	-0.003 ppm
Concentration per Run 2	0.000 ppm	0.007 ppm	0.001 ppm	-0.003 ppm
Concentration per Run 3	0.001 ppm	0.004 ppm	0.000 ppm	-0.003 ppm
Concentration RSD	108.3 %	33.2 %	39.0 %	6.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0004 ppm	0.0001 ppm	-0.0767 ppm	0.0086 ppm
Concentration per Run 1	0.001 ppm	0.000 ppm	-0.070 ppm	0.011 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.061 ppm	0.004 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	-0.099 ppm	0.010 ppm
Concentration RSD	44.0 %	101.6 %	26.2 %	47.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0025 ppm	-0.0016 ppm	0.0325 ppm	0.0076 ppm
Concentration per Run 1	0.009 ppm	-0.001 ppm	0.034 ppm	0.013 ppm
Concentration per Run 2	0.083 ppm	-0.001 ppm	0.028 ppm	-0.001 ppm
Concentration per Run 3	-0.099 ppm	-0.003 ppm	0.036 ppm	0.011 ppm
Concentration RSD	3,663.2 %	59.1 %	12.4 %	96.7 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0092 ppm	-0.0238 ppm	0.0004 ppm	0.1334 ppm
Concentration per Run 1	0.011 ppm	0.014 ppm	0.001 ppm	0.037 ppm
Concentration per Run 2	-0.001 ppm	-0.041 ppm	0.000 ppm	0.319 ppm
Concentration per Run 3	0.018 ppm	-0.044 ppm	0.000 ppm	0.045 ppm
Concentration RSD	104.9 %	138.0 %	76.5 %	120.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0043 ppm	0.0000 ppm	-0.0002 ppm	0.0012 ppm
Concentration per Run 1	0.004 ppm	0.000 ppm	0.000 ppm	0.003 ppm
Concentration per Run 2	0.004 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.005 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	18.0 %	416.9 %	92.8 %	118.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0002 ppm	0.0001 ppm	0.0019 ppm	0.0004 ppm
Concentration per Run 1	0.000 ppm	0.003 ppm	0.003 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	-0.003 ppm	0.001 ppm	0.001 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.002 ppm	0.000 ppm
Concentration RSD	19.9 %	3,347.6 %	54.1 %	57.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0007 ppm	0.0005 ppm	0.0058 ppm	-0.0002 ppm
Concentration per Run 1	-0.004 ppm	0.000 ppm	0.005 ppm	0.000 ppm
Concentration per Run 2	0.004 ppm	0.001 ppm	0.005 ppm	0.000 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	0.007 ppm	0.000 ppm
Concentration RSD	554.3 %	10.5 %	16.2 %	104.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0069 ppm	103.0627 %	113.1063 %	105.0418 %
Concentration per Run 1	0.006 ppm	103.093 %	112.931 %	104.765 %
Concentration per Run 2	0.007 ppm	103.135 %	113.702 %	105.392 %
Concentration per Run 3	0.008 ppm	102.960 %	112.686 %	104.969 %
Concentration RSD	14.6 %	0.1 %	0.5 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	0.5 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.3884 %	-0.0411 ppm
Concentration per Run 1	100.301 %	-0.011 ppm
Concentration per Run 2	100.451 %	-0.062 ppm
Concentration per Run 3	100.413 %	-0.050 ppm
Concentration RSD	0.1 %	65.1 %
Concentration SD	0.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	4 cps	1 cps	0 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-2 cps	1 cps	-15 cps	9 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-3 cps	2 cps	8 cps	6 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	-9 cps	83 cps	27 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	93 cps	-51 cps	-83 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	3 cps	-4 cps	-3 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	31 cps	0 cps	2 cps	5 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	2 cps	-19 cps	57 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1 cps	5,183 cps	8,179 cps	178,334 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,754 cps	9 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	-0.0560 ppm	0.0725 ppm	0.0236 ppm
Concentration per Run 1	-0.392 ppm	0.056 ppm	0.036 ppm
Concentration per Run 2	0.221 ppm	0.073 ppm	0.016 ppm
Concentration per Run 3	0.003 ppm	0.089 ppm	0.019 ppm
Concentration RSD	554.4 %	22.9 %	44.4 %
Concentration SD	0.3 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0811 ppm	0.3179 ppm	1.2041 ppm
Concentration per Run 1	-0.008 ppm	0.240 ppm	1.303 ppm
Concentration per Run 2	0.096 ppm	0.318 ppm	1.368 ppm
Concentration per Run 3	0.156 ppm	0.396 ppm	0.941 ppm
Concentration RSD	102.3 %	24.5 %	19.1 %
Concentration SD	0.1 ppm	0.1 ppm	0.2 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.1129 ppm	0.6571 ppm	0.6775 ppm
Concentration per Run 1	0.043 ppm	1.044 ppm	0.687 ppm
Concentration per Run 2	0.248 ppm	-0.205 ppm	0.680 ppm
Concentration per Run 3	0.047 ppm	1.132 ppm	0.666 ppm
Concentration RSD	103.7 %	113.8 %	1.6 %
Concentration SD	0.1 ppm	0.7 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.5645 ppm	-9.3709 ppm	1.0076 ppm
Concentration per Run 1	0.572 ppm	-16.592 ppm	1.412 ppm
Concentration per Run 2	0.562 ppm	-4.595 ppm	0.702 ppm
Concentration per Run 3	0.559 ppm	-6.925 ppm	0.909 ppm
Concentration RSD	1.2 %	67.9 %	36.2 %
Concentration SD	0.0 ppm	6.4 ppm	0.4 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	-1.0286 ppm	-0.1828 ppm	376.7254 ppm
Concentration per Run 1	11.522 ppm	-0.209 ppm	380.897 ppm
Concentration per Run 2	-11.396 ppm	-0.204 ppm	376.746 ppm
Concentration per Run 3	-3.212 ppm	-0.135 ppm	372.533 ppm
Concentration RSD	1,129.1 %	22.7 %	1.1 %
Concentration SD	11.6 ppm	0.0 ppm	4.2 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	395.2566 ppm	1,232.9161 ppm	-9.1978 ppm
Concentration per Run 1	404.339 ppm	1,262.817 ppm	-10.354 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	393.086 ppm	1,229.061 ppm	-6.540 ppm
Concentration per Run 3	388.345 ppm	1,206.871 ppm	-10.699 ppm
Concentration RSD	2.1 %	2.3 %	25.1 %
Concentration SD	8.2 ppm	28.2 ppm	2.3 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	104.0754 ppm	158.4827 ppm	0.0898 ppm
Concentration per Run 1	103.393 ppm	169.756 ppm	-0.258 ppm
Concentration per Run 2	103.592 ppm	146.026 ppm	0.088 ppm
Concentration per Run 3	105.241 ppm	159.666 ppm	0.440 ppm
Concentration RSD	1.0 %	7.5 %	388.2 %
Concentration SD	1.0 ppm	11.9 ppm	0.3 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0134 ppm	0.0070 ppm	0.1545 ppm
Concentration per Run 1	0.018 ppm	0.001 ppm	-0.037 ppm
Concentration per Run 2	0.002 ppm	0.003 ppm	0.361 ppm
Concentration per Run 3	0.020 ppm	0.017 ppm	0.139 ppm
Concentration RSD	73.0 %	127.2 %	128.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.2 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	409.3287 ppm	-0.1474 ppm	0.5190 ppm
Concentration per Run 1	412.419 ppm	0.184 ppm	1.027 ppm
Concentration per Run 2	409.724 ppm	0.546 ppm	0.203 ppm
Concentration per Run 3	405.843 ppm	-1.172 ppm	0.327 ppm
Concentration RSD	0.8 %	614.6 %	85.6 %
Concentration SD	3.3 ppm	0.9 ppm	0.4 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0378 ppm	2.0642 ppm	0.8495 ppm
Concentration per Run 1	0.023 ppm	3.325 ppm	0.826 ppm
Concentration per Run 2	0.019 ppm	2.159 ppm	0.852 ppm
Concentration per Run 3	0.071 ppm	0.709 ppm	0.871 ppm
Concentration RSD	75.3 %	63.5 %	2.6 %
Concentration SD	0.0 ppm	1.3 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	3.3008 ppm	-0.2017 ppm	2,829.8667 ppm
Concentration per Run 1	3.394 ppm	-0.241 ppm	2,874.476 ppm
Concentration per Run 2	3.570 ppm	-0.273 ppm	2,837.732 ppm
Concentration per Run 3	2.939 ppm	-0.091 ppm	2,777.392 ppm
Concentration RSD	9.9 %	48.2 %	1.7 %
Concentration SD	0.3 ppm	0.1 ppm	49.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	102.7440 %	115.1716 %	106.4644 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	102.843 %	114.581 %	105.987 %
Concentration per Run 2	102.577 %	115.120 %	106.462 %
Concentration per Run 3	102.812 %	115.813 %	106.944 %
Concentration RSD	0.1 %	0.5 %	0.4 %
Concentration SD	0.1 %	0.6 %	0.5 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.8262 %	-6.9040 ppm
Concentration per Run 1	101.929 %	-5.871 ppm
Concentration per Run 2	101.799 %	-9.884 ppm
Concentration per Run 3	101.750 %	-4.956 ppm
Concentration RSD	0.1 %	38.0 %
Concentration SD	0.1 %	2.6 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	6 cps	3 cps	7 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	2 cps	-14 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3 cps	17 cps	11 cps	4 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	1 cps	-1 cps	986 cps	504 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	290 cps	83 cps	726 cps	-16 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-3 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	120,218 cps	-1 cps	3 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	5 cps	65 cps	86 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	3,706 cps	5,167 cps	8,328 cps	180,749 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	18,008 cps	11 cps

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	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	-0.0524 ppm	0.0777 ppm	0.0164 ppm
Concentration per Run 1	-0.034 ppm	0.066 ppm	0.021 ppm
Concentration per Run 2	-0.124 ppm	0.084 ppm	-0.002 ppm
Concentration per Run 3	0.001 ppm	0.083 ppm	0.030 ppm
Concentration RSD	123.0 %	13.1 %	100.2 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0097 ppm	0.1962 ppm	0.3885 ppm
Concentration per Run 1	0.006 ppm	0.167 ppm	0.336 ppm
Concentration per Run 2	0.030 ppm	0.227 ppm	0.447 ppm
Concentration per Run 3	-0.007 ppm	0.194 ppm	0.382 ppm
Concentration RSD	195.5 %	15.4 %	14.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.1087 ppm	0.0542 ppm	0.2346 ppm
Concentration per Run 1	0.167 ppm	-0.198 ppm	0.267 ppm
Concentration per Run 2	0.061 ppm	0.182 ppm	0.238 ppm
Concentration per Run 3	0.098 ppm	0.179 ppm	0.199 ppm
Concentration RSD	49.3 %	403.1 %	14.5 %
Concentration SD	0.1 ppm	0.2 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.9372 ppm	-2.6890 ppm	1.3373 ppm
Concentration per Run 1	0.943 ppm	0.696 ppm	0.899 ppm
Concentration per Run 2	0.943 ppm	-4.323 ppm	1.465 ppm
Concentration per Run 3	0.925 ppm	-4.440 ppm	1.648 ppm
Concentration RSD	1.1 %	109.1 %	29.2 %
Concentration SD	0.0 ppm	2.9 ppm	0.4 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	2.5034 ppm	0.0022 ppm	346.1710 ppm
Concentration per Run 1	2.934 ppm	0.004 ppm	347.644 ppm
Concentration per Run 2	0.065 ppm	0.011 ppm	346.281 ppm
Concentration per Run 3	4.511 ppm	-0.008 ppm	344.588 ppm
Concentration RSD	90.0 %	420.7 %	0.4 %
Concentration SD	2.3 ppm	0.0 ppm	1.5 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	366.1238 ppm	931.4880 ppm	-1.8805 ppm
Concentration per Run 1	369.810 ppm	942.525 ppm	-1.015 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	362.890 ppm	928.686 ppm	-2.909 ppm
Concentration per Run 3	365.672 ppm	923.252 ppm	-1.717 ppm
Concentration RSD	1.0 %	1.1 %	50.9 %
Concentration SD	3.5 ppm	9.9 ppm	1.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	64.3754 ppm	86.8546 ppm	-0.0872 ppm
Concentration per Run 1	64.729 ppm	85.756 ppm	0.098 ppm
Concentration per Run 2	63.930 ppm	101.489 ppm	-0.258 ppm
Concentration per Run 3	64.467 ppm	73.319 ppm	-0.103 ppm
Concentration RSD	0.6 %	16.3 %	204.7 %
Concentration SD	0.4 ppm	14.1 ppm	0.2 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0165 ppm	0.0240 ppm	0.0981 ppm
Concentration per Run 1	0.009 ppm	0.018 ppm	-0.021 ppm
Concentration per Run 2	0.024 ppm	0.026 ppm	0.143 ppm
Concentration per Run 3	0.017 ppm	0.028 ppm	0.172 ppm
Concentration RSD	44.0 %	21.5 %	106.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	114.7847 ppm	-0.0600 ppm	0.2438 ppm
Concentration per Run 1	114.923 ppm	-0.202 ppm	0.215 ppm
Concentration per Run 2	114.732 ppm	-0.117 ppm	0.116 ppm
Concentration per Run 3	114.700 ppm	0.138 ppm	0.400 ppm
Concentration RSD	0.1 %	295.2 %	59.0 %
Concentration SD	0.1 ppm	0.2 ppm	0.1 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0237 ppm	1.2386 ppm	3.1234 ppm
Concentration per Run 1	0.032 ppm	1.148 ppm	3.158 ppm
Concentration per Run 2	0.018 ppm	1.452 ppm	3.115 ppm
Concentration per Run 3	0.021 ppm	1.116 ppm	3.097 ppm
Concentration RSD	31.7 %	15.0 %	1.0 %
Concentration SD	0.0 ppm	0.2 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	2.7707 ppm	-0.0901 ppm	2,037.4761 ppm
Concentration per Run 1	2.599 ppm	-0.073 ppm	2,064.071 ppm
Concentration per Run 2	2.818 ppm	-0.117 ppm	2,038.693 ppm
Concentration per Run 3	2.895 ppm	-0.080 ppm	2,009.664 ppm
Concentration RSD	5.5 %	25.8 %	1.3 %
Concentration SD	0.2 ppm	0.0 ppm	27.2 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	101.5093 %	115.5280 %	105.6182 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	101.510 %	115.435 %	105.800 %
Concentration per Run 2	101.497 %	114.658 %	105.762 %
Concentration per Run 3	101.521 %	116.491 %	105.292 %
Concentration RSD	0.0 %	0.8 %	0.3 %
Concentration SD	0.0 %	0.9 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.0619 %	-0.5284 ppm
Concentration per Run 1	101.101 %	-0.401 ppm
Concentration per Run 2	101.223 %	-0.123 ppm
Concentration per Run 3	100.861 %	-1.061 ppm
Concentration RSD	0.2 %	91.2 %
Concentration SD	0.2 %	0.5 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	9 cps	3 cps	3 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	1 cps	-9 cps	11 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1 cps	53 cps	12 cps	9 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2 cps	10 cps	1,774 cps	922 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	443 cps	98 cps	921 cps	-7 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	1 cps	-1 cps	0 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	67,430 cps	-1 cps	3 cps	4 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	5 cps	677 cps	115 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	5,340 cps	5,105 cps	8,354 cps	179,312 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,873 cps	19 cps

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Dilution Factor 5

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	-0.4176 ppm	20.8855 ppm	0.0433 ppm
Concentration per Run 1	-0.342 ppm	21.063 ppm	0.056 ppm
Concentration per Run 2	-1.318 ppm	20.891 ppm	0.039 ppm
Concentration per Run 3	0.407 ppm	20.703 ppm	0.035 ppm
Concentration RSD	207.1 %	0.9 %	25.6 %
Concentration SD	0.9 ppm	0.2 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	244.3605 ppm	1.7181 ppm	1.8609 ppm
Concentration per Run 1	251.077 ppm	1.321 ppm	1.970 ppm
Concentration per Run 2	244.625 ppm	1.947 ppm	0.924 ppm
Concentration per Run 3	237.380 ppm	1.886 ppm	2.689 ppm
Concentration RSD	2.8 %	20.1 %	47.7 %
Concentration SD	6.9 ppm	0.3 ppm	0.9 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	3.7268 ppm	218.3394 ppm	16.2883 ppm
Concentration per Run 1	3.943 ppm	218.847 ppm	16.539 ppm
Concentration per Run 2	3.307 ppm	218.897 ppm	16.383 ppm
Concentration per Run 3	3.931 ppm	217.275 ppm	15.943 ppm
Concentration RSD	9.8 %	0.4 %	1.9 %
Concentration SD	0.4 ppm	0.9 ppm	0.3 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1,400.5675 ppm	219.2428 ppm	871.2788 ppm
Concentration per Run 1	1,416.705 ppm	234.305 ppm	875.015 ppm
Concentration per Run 2	1,402.442 ppm	238.777 ppm	873.778 ppm
Concentration per Run 3	1,382.556 ppm	184.646 ppm	865.043 ppm
Concentration RSD	1.2 %	13.7 %	0.6 %
Concentration SD	17.2 ppm	30.0 ppm	5.4 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	887.8806 ppm	-0.2028 ppm	1,136.0332 ppm
Concentration per Run 1	883.640 ppm	-0.339 ppm	1,144.202 ppm
Concentration per Run 2	848.290 ppm	0.233 ppm	1,134.238 ppm
Concentration per Run 3	931.712 ppm	-0.502 ppm	1,129.660 ppm
Concentration RSD	4.7 %	190.1 %	0.7 %
Concentration SD	41.9 ppm	0.4 ppm	7.4 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	1,198.9812 ppm	133.1518 ppm	50.6775 ppm
Concentration per Run 1	1,196.749 ppm	130.645 ppm	70.194 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	1,206.857 ppm	135.563 ppm	48.242 ppm
Concentration per Run 3	1,193.338 ppm	133.247 ppm	33.597 ppm
Concentration RSD	0.6 %	1.8 %	36.3 %
Concentration SD	7.0 ppm	2.5 ppm	18.4 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	103.9089 ppm	178.3979 ppm	8.1739 ppm
Concentration per Run 1	102.749 ppm	238.865 ppm	8.298 ppm
Concentration per Run 2	107.032 ppm	174.406 ppm	8.274 ppm
Concentration per Run 3	101.946 ppm	121.923 ppm	7.950 ppm
Concentration RSD	2.6 %	32.8 %	2.4 %
Concentration SD	2.7 ppm	58.6 ppm	0.2 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0255 ppm	0.7940 ppm	0.0324 ppm
Concentration per Run 1	0.006 ppm	0.748 ppm	-0.069 ppm
Concentration per Run 2	0.068 ppm	0.838 ppm	0.237 ppm
Concentration per Run 3	0.003 ppm	0.796 ppm	-0.071 ppm
Concentration RSD	145.6 %	5.7 %	546.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.2 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	13.7119 ppm	-0.2145 ppm	26.3248 ppm
Concentration per Run 1	14.066 ppm	1.296 ppm	26.150 ppm
Concentration per Run 2	13.728 ppm	-0.109 ppm	26.858 ppm
Concentration per Run 3	13.342 ppm	-1.830 ppm	25.966 ppm
Concentration RSD	2.6 %	730.1 %	1.8 %
Concentration SD	0.4 ppm	1.6 ppm	0.5 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	3.2904 ppm	4.5470 ppm	23.0897 ppm
Concentration per Run 1	3.322 ppm	2.544 ppm	23.369 ppm
Concentration per Run 2	3.260 ppm	8.814 ppm	23.032 ppm
Concentration per Run 3	3.290 ppm	2.284 ppm	22.868 ppm
Concentration RSD	0.9 %	81.3 %	1.1 %
Concentration SD	0.0 ppm	3.7 ppm	0.3 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	316.1434 ppm	0.4637 ppm	824.3697 ppm
Concentration per Run 1	322.290 ppm	0.329 ppm	832.255 ppm
Concentration per Run 2	315.094 ppm	0.191 ppm	825.756 ppm
Concentration per Run 3	311.046 ppm	0.871 ppm	815.098 ppm
Concentration RSD	1.8 %	77.5 %	1.1 %
Concentration SD	5.7 ppm	0.4 ppm	8.7 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	103.0066 %	119.5537 %	105.1200 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	103.004 %	118.906 %	102.949 %
Concentration per Run 2	103.134 %	119.994 %	105.189 %
Concentration per Run 3	102.882 %	119.761 %	107.221 %
Concentration RSD	0.1 %	0.5 %	2.0 %
Concentration SD	0.1 %	0.6 %	2.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	101.8838 %	-15.0387 ppm
Concentration per Run 1	101.892 %	-23.694 ppm
Concentration per Run 2	101.894 %	14.519 ppm
Concentration per Run 3	101.865 %	-35.941 ppm
Concentration RSD	0.0 %	175.0 %
Concentration SD	0.0 %	26.3 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-3 cps	334 cps	2 cps	4,953 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1 cps	1 cps	55 cps	253 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	72 cps	16,448 cps	47 cps	1,083 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	46 cps	5 cps	1,285 cps	663 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	14 cps	168 cps	286 cps	-62 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	10 cps	-3 cps	8 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	1,697 cps	0 cps	85 cps	32 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	5 cps	1,102 cps	1,762 cps	3 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	456 cps	5,180 cps	8,645 cps	178,467 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	18,018 cps	12 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	2.0148 ppm	0.4938 ppm	0.4988 ppm	0.9397 ppm
Concentration per Run 1	2.020 ppm	0.494 ppm	0.499 ppm	0.936 ppm
Concentration per Run 2	2.008 ppm	0.494 ppm	0.498 ppm	0.939 ppm
Concentration per Run 3	2.016 ppm	0.494 ppm	0.499 ppm	0.944 ppm
Concentration RSD	0.3 %	0.0 %	0.1 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.4651 ppm	2.0711 ppm	0.9277 ppm	1.9014 ppm
Concentration per Run 1	0.468 ppm	2.070 ppm	0.928 ppm	1.898 ppm
Concentration per Run 2	0.463 ppm	2.072 ppm	0.928 ppm	1.896 ppm
Concentration per Run 3	0.464 ppm	2.071 ppm	0.928 ppm	1.910 ppm
Concentration RSD	0.6 %	0.1 %	0.0 %	0.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	1.9309 ppm	2.8225 ppm	9.7327 ppm	9.6035 ppm
Concentration per Run 1	1.932 ppm	2.824 ppm	9.720 ppm	9.599 ppm
Concentration per Run 2	1.931 ppm	2.828 ppm	9.755 ppm	9.617 ppm
Concentration per Run 3	1.930 ppm	2.816 ppm	9.723 ppm	9.594 ppm
Concentration RSD	0.0 %	0.2 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	10.0865 ppm	1.3981 ppm	46.0684 ppm	49.3832 ppm
Concentration per Run 1	10.036 ppm	1.400 ppm	46.330 ppm	49.554 ppm
Concentration per Run 2	10.021 ppm	1.400 ppm	46.019 ppm	49.367 ppm
Concentration per Run 3	10.203 ppm	1.394 ppm	45.857 ppm	49.228 ppm
Concentration RSD	1.0 %	0.3 %	0.5 %	0.3 %
Concentration SD	0.1 ppm	0.0 ppm	0.2 ppm	0.2 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	9.1076 ppm	49.5730 ppm	45.5998 ppm	48.2640 ppm
Concentration per Run 1	9.120 ppm	49.812 ppm	45.753 ppm	48.240 ppm
Concentration per Run 2	9.105 ppm	49.510 ppm	45.602 ppm	48.430 ppm
Concentration per Run 3	9.097 ppm	49.396 ppm	45.444 ppm	48.121 ppm
Concentration RSD	0.1 %	0.4 %	0.3 %	0.3 %
Concentration SD	0.0 ppm	0.2 ppm	0.2 ppm	0.2 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	2.0034 ppm	0.1974 ppm	0.9569 ppm	1.8301 ppm
Concentration per Run 1	2.007 ppm	0.197 ppm	0.957 ppm	1.829 ppm
Concentration per Run 2	1.999 ppm	0.198 ppm	0.959 ppm	1.832 ppm
Concentration per Run 3	2.005 ppm	0.198 ppm	0.955 ppm	1.829 ppm
Concentration RSD	0.2 %	0.4 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.9351 ppm	0.9598 ppm	0.9832 ppm	0.5024 ppm
Concentration per Run 1	0.935 ppm	0.951 ppm	0.989 ppm	0.502 ppm
Concentration per Run 2	0.933 ppm	0.969 ppm	0.982 ppm	0.503 ppm
Concentration per Run 3	0.937 ppm	0.959 ppm	0.979 ppm	0.502 ppm
Concentration RSD	0.2 %	0.9 %	0.5 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	1.8789 ppm	0.9557 ppm	1.8651 ppm	1.8520 ppm
Concentration per Run 1	1.871 ppm	0.957 ppm	1.867 ppm	1.855 ppm
Concentration per Run 2	1.888 ppm	0.957 ppm	1.859 ppm	1.854 ppm
Concentration per Run 3	1.877 ppm	0.953 ppm	1.869 ppm	1.847 ppm
Concentration RSD	0.5 %	0.3 %	0.3 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	5.4225 ppm	88.9895 %	110.7937 %	97.5665 %
Concentration per Run 1	5.423 ppm	88.871 %	110.207 %	97.687 %
Concentration per Run 2	5.428 ppm	89.141 %	111.254 %	97.485 %
Concentration per Run 3	5.417 ppm	88.956 %	110.920 %	97.528 %
Concentration RSD	0.1 %	0.2 %	0.5 %	0.1 %
Concentration SD	0.0 ppm	0.1 %	0.5 %	0.1 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	94.6265 %	0.0161 ppm
Concentration per Run 1	94.502 %	0.029 ppm
Concentration per Run 2	94.845 %	0.013 ppm
Concentration per Run 3	94.533 %	0.007 ppm
Concentration RSD	0.2 %	73.4 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1,010 cps	3,429 cps	4,045 cps	8,340 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	342 cps	749 cps	8,080 cps	933 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	3,677 cps	14,522 cps	644 cps	5,216 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	220 cps	15,877 cps	21,576 cps	11,475 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	410 cps	24,541 cps	65,316 cps	4,744 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	994 cps	3,931 cps	4,959 cps	874 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	50,146 cps	440 cps	1,409 cps	1,919 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	552 cps	20,477 cps	4,483 cps	1,931 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1,314 cps	4,475 cps	8,012 cps	165,643 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	16,735 cps	25 cps

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	-0.0015 ppm	-0.0001 ppm	0.0002 ppm	-0.0003 ppm
Concentration per Run 1	-0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 2	-0.001 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	-0.002 ppm	0.000 ppm	0.000 ppm	0.000 ppm
Concentration RSD	6.1 %	180.7 %	95.4 %	67.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0016 ppm	0.0053 ppm	0.0000 ppm	0.0020 ppm
Concentration per Run 1	0.003 ppm	0.003 ppm	0.001 ppm	-0.001 ppm
Concentration per Run 2	0.001 ppm	0.005 ppm	0.000 ppm	0.008 ppm
Concentration per Run 3	0.001 ppm	0.008 ppm	-0.001 ppm	-0.001 ppm
Concentration RSD	71.8 %	51.6 %	2,481.3 %	267.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0017 ppm	0.0016 ppm	-0.0370 ppm	0.0036 ppm
Concentration per Run 1	0.001 ppm	0.002 ppm	-0.023 ppm	0.003 ppm
Concentration per Run 2	0.002 ppm	0.001 ppm	-0.066 ppm	0.004 ppm
Concentration per Run 3	0.002 ppm	0.002 ppm	-0.021 ppm	0.004 ppm
Concentration RSD	13.9 %	11.7 %	68.7 %	20.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0115 ppm	-0.0021 ppm	0.0203 ppm	-0.0082 ppm
Concentration per Run 1	-0.010 ppm	-0.002 ppm	0.018 ppm	-0.021 ppm
Concentration per Run 2	0.050 ppm	-0.003 ppm	0.024 ppm	0.001 ppm
Concentration per Run 3	-0.005 ppm	-0.001 ppm	0.020 ppm	-0.004 ppm
Concentration RSD	289.8 %	40.8 %	14.8 %	141.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0076 ppm	-0.0370 ppm	-0.0001 ppm	0.3235 ppm
Concentration per Run 1	0.002 ppm	-0.049 ppm	0.006 ppm	0.391 ppm
Concentration per Run 2	0.027 ppm	-0.049 ppm	-0.005 ppm	0.321 ppm
Concentration per Run 3	-0.007 ppm	-0.014 ppm	-0.002 ppm	0.258 ppm
Concentration RSD	232.4 %	54.5 %	8,247.5 %	20.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0044 ppm	0.0000 ppm	0.0000 ppm	0.0006 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.000 ppm	-0.002 ppm
Concentration per Run 2	0.005 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration per Run 3	0.003 ppm	0.000 ppm	0.000 ppm	0.001 ppm
Concentration RSD	18.6 %	214.5 %	28,197.3 %	385.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0001 ppm	0.0040 ppm	0.0014 ppm	0.0005 ppm
Concentration per Run 1	0.000 ppm	0.009 ppm	0.003 ppm	0.000 ppm
Concentration per Run 2	0.000 ppm	0.009 ppm	0.000 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	-0.006 ppm	0.002 ppm	0.001 ppm
Concentration RSD	59.3 %	214.1 %	111.9 %	49.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0067 ppm	0.0005 ppm	0.0031 ppm	-0.0002 ppm
Concentration per Run 1	0.005 ppm	0.000 ppm	0.004 ppm	-0.001 ppm
Concentration per Run 2	0.013 ppm	0.000 ppm	0.002 ppm	0.000 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	0.003 ppm	0.000 ppm
Concentration RSD	85.4 %	6.2 %	26.2 %	142.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0021 ppm	102.6487 %	114.3094 %	104.9974 %
Concentration per Run 1	0.003 ppm	102.508 %	113.605 %	105.337 %
Concentration per Run 2	0.002 ppm	102.759 %	114.443 %	104.680 %
Concentration per Run 3	0.001 ppm	102.680 %	114.880 %	104.975 %
Concentration RSD	45.0 %	0.1 %	0.6 %	0.3 %
Concentration SD	0.0 ppm	0.1 %	0.6 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.2051 %	-0.0528 ppm
Concentration per Run 1	99.955 %	-0.060 ppm
Concentration per Run 2	100.236 %	-0.011 ppm
Concentration per Run 3	100.425 %	-0.088 ppm
Concentration RSD	0.2 %	73.7 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-4 cps	3 cps	3 cps	0 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-1 cps	1 cps	-19 cps	11 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	0 cps	10 cps	11 cps	3 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2 cps	-15 cps	78 cps	24 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	1 cps	87 cps	-52 cps	-65 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	3 cps	-3 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	23 cps	2 cps	1 cps	5 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	4 cps	-19 cps	50 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	0 cps	5,162 cps	8,266 cps	178,258 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,722 cps	6 cps

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CCVLL 15I21316

Sample Type QC Analysis Date 10/19/2015 2:22:34 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0070 ppm	0.0051 ppm	0.0019 ppm	0.0091 ppm
Concentration per Run 1	0.007 ppm	0.005 ppm	0.002 ppm	0.009 ppm
Concentration per Run 2	0.006 ppm	0.005 ppm	0.002 ppm	0.009 ppm
Concentration per Run 3	0.007 ppm	0.005 ppm	0.002 ppm	0.009 ppm
Concentration RSD	7.0 %	3.5 %	3.0 %	2.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0049 ppm	0.0140 ppm	0.0051 ppm	0.0119 ppm
Concentration per Run 1	0.004 ppm	0.014 ppm	0.005 ppm	0.010 ppm
Concentration per Run 2	0.005 ppm	0.015 ppm	0.005 ppm	0.013 ppm
Concentration per Run 3	0.006 ppm	0.013 ppm	0.005 ppm	0.013 ppm
Concentration RSD	17.4 %	9.3 %	7.7 %	14.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0099 ppm	0.0472 ppm	0.1489 ppm	0.0999 ppm
Concentration per Run 1	0.010 ppm	0.048 ppm	0.108 ppm	0.101 ppm
Concentration per Run 2	0.010 ppm	0.047 ppm	0.180 ppm	0.100 ppm
Concentration per Run 3	0.010 ppm	0.046 ppm	0.159 ppm	0.098 ppm
Concentration RSD	2.3 %	1.4 %	24.6 %	1.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	0.0896 ppm	0.0124 ppm	0.9549 ppm	0.9861 ppm
Concentration per Run 1	0.044 ppm	0.012 ppm	0.950 ppm	0.989 ppm
Concentration per Run 2	0.165 ppm	0.013 ppm	0.955 ppm	0.982 ppm
Concentration per Run 3	0.061 ppm	0.012 ppm	0.960 ppm	0.987 ppm
Concentration RSD	73.1 %	6.9 %	0.5 %	0.4 %
Concentration SD	0.1 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.9175 ppm	0.9806 ppm	0.9554 ppm	1.1078 ppm
Concentration per Run 1	0.898 ppm	0.989 ppm	0.952 ppm	1.053 ppm
Concentration per Run 2	0.887 ppm	0.972 ppm	0.958 ppm	1.266 ppm
Concentration per Run 3	0.967 ppm	0.981 ppm	0.956 ppm	1.004 ppm
Concentration RSD	4.7 %	0.9 %	0.3 %	12.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0101 ppm	0.0021 ppm	0.0090 ppm	0.0098 ppm
Concentration per Run 1	0.010 ppm	0.002 ppm	0.009 ppm	0.011 ppm
Concentration per Run 2	0.010 ppm	0.002 ppm	0.009 ppm	0.010 ppm
Concentration per Run 3	0.011 ppm	0.002 ppm	0.009 ppm	0.009 ppm
Concentration RSD	7.8 %	5.8 %	1.7 %	10.8 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0098 ppm	0.0195 ppm	0.0505 ppm	0.0050 ppm
Concentration per Run 1	0.010 ppm	0.016 ppm	0.049 ppm	0.005 ppm
Concentration per Run 2	0.010 ppm	0.022 ppm	0.051 ppm	0.005 ppm
Concentration per Run 3	0.010 ppm	0.020 ppm	0.051 ppm	0.005 ppm
Concentration RSD	0.8 %	15.6 %	2.3 %	3.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0504 ppm	0.0102 ppm	0.0456 ppm	0.0459 ppm
Concentration per Run 1	0.052 ppm	0.010 ppm	0.046 ppm	0.046 ppm
Concentration per Run 2	0.045 ppm	0.010 ppm	0.046 ppm	0.046 ppm
Concentration per Run 3	0.054 ppm	0.011 ppm	0.045 ppm	0.045 ppm
Concentration RSD	9.5 %	3.2 %	0.6 %	1.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	1.0297 ppm	100.8057 %	114.2203 %	104.1588 %
Concentration per Run 1	1.034 ppm	100.662 %	114.808 %	104.477 %
Concentration per Run 2	1.029 ppm	100.676 %	113.872 %	104.352 %
Concentration per Run 3	1.026 ppm	101.080 %	113.980 %	103.648 %
Concentration RSD	0.4 %	0.2 %	0.4 %	0.4 %
Concentration SD	0.0 ppm	0.2 %	0.5 %	0.4 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	100.1774 %	-0.0234 ppm
Concentration per Run 1	100.128 %	-0.022 ppm
Concentration per Run 2	99.941 %	-0.042 ppm
Concentration per Run 3	100.463 %	-0.006 ppm
Concentration RSD	0.3 %	79.0 %
Concentration SD	0.3 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	1 cps	41 cps	18 cps	89 cps

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	2 cps	5 cps	29 cps	16 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	17 cps	258 cps	24 cps	57 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	3 cps	155 cps	528 cps	261 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	43 cps	605 cps	1,360 cps	16 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	6 cps	38 cps	51 cps	2 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	580 cps	9 cps	74 cps	23 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	17 cps	195 cps	158 cps	53 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	264 cps	5,070 cps	8,260 cps	176,835 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	17,717 cps	14 cps

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ICSA 15I21332

Sample Type QC Analysis Date 10/19/2015 3:01:20 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	-0.0121 ppm	0.0027 ppm	0.0008 ppm
Concentration per Run 1	-0.015 ppm	0.003 ppm	0.001 ppm
Concentration per Run 2	-0.011 ppm	0.003 ppm	0.001 ppm
Concentration per Run 3	-0.011 ppm	0.003 ppm	0.001 ppm
Concentration RSD	22.1 %	1.8 %	21.6 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.0012 ppm	-0.0242 ppm	0.0154 ppm
Concentration per Run 1	0.001 ppm	-0.024 ppm	0.014 ppm
Concentration per Run 2	0.000 ppm	-0.024 ppm	0.017 ppm
Concentration per Run 3	0.002 ppm	-0.025 ppm	0.016 ppm
Concentration RSD	68.3 %	2.3 %	9.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	0.0000 ppm	0.0056 ppm	0.0128 ppm
Concentration per Run 1	0.000 ppm	0.009 ppm	0.013 ppm
Concentration per Run 2	-0.001 ppm	0.005 ppm	0.013 ppm
Concentration per Run 3	0.001 ppm	0.003 ppm	0.012 ppm
Concentration RSD	8,521.8 %	53.8 %	3.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0100 ppm	477.8778 ppm	166.3860 ppm
Concentration per Run 1	0.010 ppm	477.117 ppm	165.994 ppm
Concentration per Run 2	0.010 ppm	477.731 ppm	166.075 ppm
Concentration per Run 3	0.010 ppm	478.785 ppm	167.089 ppm
Concentration RSD	3.2 %	0.2 %	0.4 %
Concentration SD	0.0 ppm	0.8 ppm	0.6 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	183.5397 ppm	0.0163 ppm	417.9861 ppm
Concentration per Run 1	183.062 ppm	0.016 ppm	419.273 ppm
Concentration per Run 2	183.932 ppm	0.018 ppm	413.020 ppm
Concentration per Run 3	183.625 ppm	0.015 ppm	421.665 ppm
Concentration RSD	0.2 %	10.9 %	1.1 %
Concentration SD	0.4 ppm	0.0 ppm	4.5 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	464.0760 ppm	437.1941 ppm	-0.0127 ppm
Concentration per Run 1	462.687 ppm	435.688 ppm	-0.023 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	463.475 ppm	436.935 ppm	0.011 ppm
Concentration per Run 3	466.065 ppm	438.959 ppm	-0.026 ppm
Concentration RSD	0.4 %	0.4 %	162.8 %
Concentration SD	1.8 ppm	1.7 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	0.1964 ppm	0.5731 ppm	0.0144 ppm
Concentration per Run 1	0.192 ppm	0.605 ppm	0.014 ppm
Concentration per Run 2	0.197 ppm	0.562 ppm	0.015 ppm
Concentration per Run 3	0.200 ppm	0.553 ppm	0.015 ppm
Concentration RSD	1.9 %	4.9 %	3.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0001 ppm	-0.0010 ppm	-0.0058 ppm
Concentration per Run 1	0.000 ppm	-0.001 ppm	-0.005 ppm
Concentration per Run 2	0.000 ppm	-0.001 ppm	-0.004 ppm
Concentration per Run 3	0.000 ppm	-0.001 ppm	-0.009 ppm
Concentration RSD	78.8 %	17.4 %	45.9 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.0036 ppm	0.0007 ppm	0.0224 ppm
Concentration per Run 1	0.004 ppm	-0.002 ppm	0.022 ppm
Concentration per Run 2	0.003 ppm	0.005 ppm	0.024 ppm
Concentration per Run 3	0.004 ppm	-0.001 ppm	0.021 ppm
Concentration RSD	2.6 %	522.1 %	7.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.0008 ppm	0.0055 ppm	0.0063 ppm
Concentration per Run 1	0.001 ppm	0.004 ppm	0.006 ppm
Concentration per Run 2	0.001 ppm	0.007 ppm	0.007 ppm
Concentration per Run 3	0.001 ppm	0.006 ppm	0.006 ppm
Concentration RSD	6.1 %	27.2 %	2.5 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	-0.0051 ppm	0.0002 ppm	0.0093 ppm
Concentration per Run 1	-0.006 ppm	0.001 ppm	0.004 ppm
Concentration per Run 2	-0.004 ppm	0.001 ppm	0.012 ppm
Concentration per Run 3	-0.006 ppm	-0.001 ppm	0.012 ppm
Concentration RSD	25.0 %	391.8 %	48.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	72.7731 %	105.4144 %	86.8408 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	72.855 %	105.523 %	86.637 %
Concentration per Run 2	72.615 %	105.960 %	87.020 %
Concentration per Run 3	72.849 %	104.759 %	86.865 %
Concentration RSD	0.2 %	0.6 %	0.2 %
Concentration SD	0.1 %	0.6 %	0.2 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	85.4242 %	0.1812 ppm
Concentration per Run 1	85.574 %	0.204 ppm
Concentration per Run 2	85.194 %	0.175 ppm
Concentration per Run 3	85.505 %	0.165 ppm
Concentration RSD	0.2 %	11.3 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-8 cps	20 cps	7 cps	11 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	-16 cps	4 cps	-16 cps	12 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	17 cps	48 cps	29,482 cps	85,961 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	3,794 cps	185 cps	185,750 cps	102,397 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	18,714 cps	92 cps	220 cps	-36 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	7 cps	-2 cps	-6 cps	-5 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	187 cps	0 cps	30 cps	6 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	3 cps	102 cps	24 cps	2 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1 cps	3,660 cps	7,623 cps	147,433 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	15,108 cps	70 cps

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ICSAB 15I21333

Sample Type QC Analysis Date 10/19/2015 3:04:30 PM

Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)
Concentration average	0.4885 ppm	0.4716 ppm	0.9803 ppm
Concentration per Run 1	0.489 ppm	0.473 ppm	0.982 ppm
Concentration per Run 2	0.493 ppm	0.472 ppm	0.982 ppm
Concentration per Run 3	0.484 ppm	0.470 ppm	0.978 ppm
Concentration RSD	0.9 %	0.4 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Cr 267.716 {126} (Axial)	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)
Concentration average	0.4149 ppm	0.8790 ppm	0.5163 ppm
Concentration per Run 1	0.416 ppm	0.881 ppm	0.515 ppm
Concentration per Run 2	0.414 ppm	0.878 ppm	0.522 ppm
Concentration per Run 3	0.415 ppm	0.878 ppm	0.512 ppm
Concentration RSD	0.2 %	0.2 %	1.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)	Ni 231.604 {446} (Axial)
Concentration average	1.0208 ppm	0.4656 ppm	0.9441 ppm
Concentration per Run 1	1.020 ppm	0.465 ppm	0.945 ppm
Concentration per Run 2	1.021 ppm	0.465 ppm	0.943 ppm
Concentration per Run 3	1.021 ppm	0.467 ppm	0.944 ppm
Concentration RSD	0.0 %	0.2 %	0.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.8556 ppm	467.3846 ppm	162.7972 ppm
Concentration per Run 1	0.857 ppm	466.002 ppm	162.167 ppm
Concentration per Run 2	0.856 ppm	468.594 ppm	163.287 ppm
Concentration per Run 3	0.854 ppm	467.558 ppm	162.937 ppm
Concentration RSD	0.2 %	0.3 %	0.4 %
Concentration SD	0.0 ppm	1.3 ppm	0.6 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)
Concentration average	181.7848 ppm	0.0153 ppm	411.1910 ppm
Concentration per Run 1	181.318 ppm	0.013 ppm	408.995 ppm
Concentration per Run 2	181.843 ppm	0.016 ppm	412.327 ppm
Concentration per Run 3	182.194 ppm	0.016 ppm	412.250 ppm
Concentration RSD	0.2 %	10.5 %	0.5 %
Concentration SD	0.4 ppm	0.0 ppm	1.9 ppm

	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration average	456.7243 ppm	427.0301 ppm	-0.0040 ppm
Concentration per Run 1	455.058 ppm	424.605 ppm	-0.004 ppm

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	Ca 373.690 {90} (Radial)	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)
Concentration per Run 2	457.709 ppm	428.859 ppm	-0.013 ppm
Concentration per Run 3	457.406 ppm	427.626 ppm	0.004 ppm
Concentration RSD	0.3 %	0.5 %	210.5 %
Concentration SD	1.5 ppm	2.2 ppm	0.0 ppm

	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)	Sb 206.833 {463} (Axial)
Concentration average	0.1828 ppm	0.5193 ppm	0.5007 ppm
Concentration per Run 1	0.185 ppm	0.628 ppm	0.503 ppm
Concentration per Run 2	0.190 ppm	0.282 ppm	0.503 ppm
Concentration per Run 3	0.173 ppm	0.648 ppm	0.497 ppm
Concentration RSD	4.6 %	39.6 %	0.7 %
Concentration SD	0.0 ppm	0.2 ppm	0.0 ppm

	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.4630 ppm	0.4733 ppm	0.4296 ppm
Concentration per Run 1	0.461 ppm	0.474 ppm	0.430 ppm
Concentration per Run 2	0.464 ppm	0.473 ppm	0.430 ppm
Concentration per Run 3	0.464 ppm	0.473 ppm	0.428 ppm
Concentration RSD	0.4 %	0.1 %	0.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)
Concentration average	0.4526 ppm	0.4444 ppm	0.4687 ppm
Concentration per Run 1	0.454 ppm	0.443 ppm	0.472 ppm
Concentration per Run 2	0.452 ppm	0.445 ppm	0.466 ppm
Concentration per Run 3	0.451 ppm	0.445 ppm	0.467 ppm
Concentration RSD	0.3 %	0.3 %	0.7 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Mo 202.030 {467} (Axial)	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)
Concentration average	0.4579 ppm	0.8811 ppm	0.0063 ppm
Concentration per Run 1	0.459 ppm	0.877 ppm	0.006 ppm
Concentration per Run 2	0.458 ppm	0.892 ppm	0.006 ppm
Concentration per Run 3	0.457 ppm	0.875 ppm	0.006 ppm
Concentration RSD	0.2 %	1.0 %	1.2 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)	S 182.034 {485} (Axial)
Concentration average	0.8880 ppm	0.4059 ppm	0.0090 ppm
Concentration per Run 1	0.891 ppm	0.407 ppm	0.009 ppm
Concentration per Run 2	0.883 ppm	0.407 ppm	0.014 ppm
Concentration per Run 3	0.890 ppm	0.403 ppm	0.004 ppm
Concentration RSD	0.5 %	0.5 %	53.0 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm

	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	72.6644 %	106.2071 %	87.3987 %

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	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration per Run 1	72.546 %	106.753 %	87.463 %
Concentration per Run 2	72.720 %	105.809 %	87.627 %
Concentration per Run 3	72.727 %	106.059 %	87.106 %
Concentration RSD	0.1 %	0.5 %	0.3 %
Concentration SD	0.1 %	0.5 %	0.3 %

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	85.3660 %	0.2082 ppm
Concentration per Run 1	85.179 %	0.213 ppm
Concentration per Run 2	85.326 %	0.198 ppm
Concentration per Run 3	85.593 %	0.213 ppm
Concentration RSD	0.2 %	4.3 %
Concentration SD	0.2 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	219 cps	2,955 cps	7,169 cps	3,300 cps

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	529 cps	168 cps	7,966 cps	226 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	1,466 cps	3,972 cps	29,052 cps	84,739 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	3,786 cps	176 cps	184,110 cps	101,533 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	18,416 cps	97 cps	203 cps	-41 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	225 cps	8,845 cps	2,002 cps	166 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	21,752 cps	195 cps	643 cps	1,578 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	249 cps	102 cps	1,930 cps	383 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	1 cps	3,654 cps	7,680 cps	148,380 cps

Comprehensive sample report

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	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	15,097 cps	77 cps

Comprehensive sample report

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Dilution Factor 1

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Concentration average	0.0028 ppm	0.0001 ppm	-0.0004 ppm	-0.0010 ppm
Concentration per Run 1	N/A	N/A	N/A	N/A
Concentration per Run 2	0.003 ppm	0.000 ppm	0.000 ppm	N/A
Concentration per Run 3	0.003 ppm	0.000 ppm	0.000 ppm	-0.001 ppm
Concentration RSD	4.6 %	2.3 %	32.4 %	
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	

	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Concentration average	0.0034 ppm	0.0031 ppm	-0.0008 ppm	0.0001 ppm
Concentration per Run 1	N/A	N/A	N/A	0.000 ppm
Concentration per Run 2	0.004 ppm	0.002 ppm	N/A	-0.002 ppm
Concentration per Run 3	0.003 ppm	0.004 ppm	-0.001 ppm	0.002 ppm
Concentration RSD	26.3 %	48.7 %		1,776.4 %
Concentration SD	0.0 ppm	0.0 ppm		0.0 ppm

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Concentration average	0.0005 ppm	0.0002 ppm	-0.0363 ppm	0.0239 ppm
Concentration per Run 1	N/A	N/A	-0.082 ppm	0.016 ppm
Concentration per Run 2	0.000 ppm	0.000 ppm	-0.073 ppm	0.026 ppm
Concentration per Run 3	0.001 ppm	0.000 ppm	0.046 ppm	0.030 ppm
Concentration RSD	72.0 %	59.2 %	196.4 %	30.4 %
Concentration SD	0.0 ppm	0.0 ppm	0.1 ppm	0.0 ppm

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Concentration average	-0.0095 ppm	-0.0017 ppm	0.0652 ppm	0.0215 ppm
Concentration per Run 1	-0.041 ppm	-0.003 ppm	0.055 ppm	-0.011 ppm
Concentration per Run 2	-0.005 ppm	-0.001 ppm	0.065 ppm	-0.008 ppm
Concentration per Run 3	0.017 ppm	-0.002 ppm	0.076 ppm	0.083 ppm
Concentration RSD	307.6 %	48.5 %	16.0 %	249.3 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.1 ppm

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Concentration average	0.0814 ppm	-0.0790 ppm	-0.0064 ppm	0.2993 ppm
Concentration per Run 1	0.052 ppm	-0.134 ppm	0.008 ppm	0.549 ppm
Concentration per Run 2	0.071 ppm	-0.161 ppm	0.017 ppm	0.562 ppm
Concentration per Run 3	0.121 ppm	0.058 ppm	-0.045 ppm	-0.213 ppm
Concentration RSD	44.1 %	151.4 %	526.4 %	148.4 %
Concentration SD	0.0 ppm	0.1 ppm	0.0 ppm	0.4 ppm

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	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Concentration average	0.0001 ppm	0.0001 ppm	0.0001 ppm	0.0029 ppm
Concentration per Run 1	N/A	0.000 ppm	N/A	N/A
Concentration per Run 2	0.000 ppm	0.000 ppm	0.000 ppm	0.003 ppm
Concentration per Run 3	0.000 ppm	0.000 ppm	0.000 ppm	0.002 ppm
Concentration RSD	161.0 %	36.0 %	36.1 %	22.1 %
Concentration SD	0.0 ppm	0.0 ppm	0.0 ppm	0.0 ppm

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Concentration average	0.0004 ppm	-0.0011 ppm	0.0017 ppm	0.0002 ppm
Concentration per Run 1	N/A	0.001 ppm	0.000 ppm	N/A
Concentration per Run 2	N/A	0.001 ppm	0.001 ppm	0.000 ppm
Concentration per Run 3	0.000 ppm	-0.006 ppm	0.004 ppm	0.000 ppm
Concentration RSD		361.9 %	120.2 %	53.2 %
Concentration SD		0.0 ppm	0.0 ppm	0.0 ppm

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Concentration average	0.0004 ppm	0.0006 ppm	-0.0023 ppm	-0.0009 ppm
Concentration per Run 1	-0.001 ppm	0.001 ppm	N/A	N/A
Concentration per Run 2	0.000 ppm	0.001 ppm	N/A	-0.001 ppm
Concentration per Run 3	0.002 ppm	0.000 ppm	-0.002 ppm	-0.001 ppm
Concentration RSD	384.1 %	74.5 %		4.0 %
Concentration SD	0.0 ppm	0.0 ppm		0.0 ppm

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Concentration average	0.0011 ppm	164.3405 %	245.3370 %	86.9627 %
Concentration per Run 1	N/A		282.799 %	
Concentration per Run 2	-0.001 ppm	153.321 %	325.802 %	
Concentration per Run 3	0.003 ppm	175.360 %	127.410 %	86.963 %
Concentration RSD	283.5 %	9.5 %	42.5 %	
Concentration SD	0.0 ppm	15.6 %	104.4 %	

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Concentration average	168.6228 %	0.0015 ppm
Concentration per Run 1		0.015 ppm
Concentration per Run 2	156.517 %	-0.023 ppm
Concentration per Run 3	180.728 %	0.013 ppm
Concentration RSD	10.2 %	1,440.7 %
Concentration SD	17.1 %	0.0 ppm

	As 189.042 {478} (Axial)	Ba 233.527 {445} (Axial)	Cd 228.802 {447} (Axial)	Cr 267.716 {126} (Axial)
Intensity average	-2 cps	7 cps	-2 cps	-5 cps

Comprehensive sample report

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	Pb 220.353 {453} (Axial)	Se 196.090 {472} (Axial)	Ag 328.068 {103} (Axial)	Cu 324.754 {104} (Radial)
Intensity average	1 cps	1 cps	-18 cps	22 cps

	Ni 231.604 {446} (Axial)	Zn 206.200 {463} (Axial)	Al 308.215 {109} (Radial)	Fe 259.940 {130} (Radial)
Intensity average	-5 cps	3 cps	21 cps	29 cps

	Fe 271.441 {124} (Radial)	Li 670.784 {50} (Radial)	Ca 317.933 {106} (Radial)	Ca 373.690 {90} (Radial)
Intensity average	2 cps	-21 cps	211 cps	59 cps

	Mg 279.079 {121} (Radial)	K 766.490 {44} (Radial)	Na 589.592 {57} (Radial)	Na 818.326 {41} (Radial)
Intensity average	8 cps	105 cps	-102 cps	-117 cps

	Sb 206.833 {463} (Axial)	Be 313.042 {108} (Radial)	Co 228.616 {447} (Axial)	Tl 190.856 {477} (Axial)
Intensity average	2 cps	-7 cps	-2 cps	-3 cps

	Mn 257.610 {131} (Axial)	V 292.402 {115} (Radial)	Ti 334.941 {101} (Radial)	Mo 202.030 {467} (Axial)
Intensity average	31 cps	-1 cps	1 cps	6 cps

	B 249.678 {135} (Radial)	Sr 421.552 {80} (Radial)	Si 251.611 {134} (Axial)	Sn 189.989 {477} (Axial)
Intensity average	4 cps	-28 cps	41 cps	1 cps

	S 182.034 {485} (Axial)	In 230.606 {446} (Axial)	Y 360.073 {94} (Radial)	Y 360.073 {94} (Axial)
Intensity average	0 cps	8,265 cps	17,741 cps	147,640 cps

	Y 224.306 {450} (Axial)	Ce 535.353 {63} (Radial)
Intensity average	29,821 cps	21 cps

Volatile Organic Compounds by Method 8260C

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Quality Control Summary
SDG: L793892

Volatile Organic Compounds by Method 8260C
LaBella Associates, P.C.

Project: Former Photech Imaging Site
Project No: 2151305

Login No: L793892

Lab SampleID.	Client ID
L793892-01	RMW-5
L793892-02	RMW-6
L793892-03	RMW-8
L793892-04	RMW-9
L793892-05	BLIND DUP
L793892-06	RMW-7
L793892-07	RMW-4
L793892-08	WELL-07
L793892-09	RMW-3
L793892-10	WELL-09
L793892-11	RMW-2
L793892-12	RMW-1
L793892-13	WELL-04
L793892-14	EQ BLANK
L793892-16	TRIP BLANK

I certify that this data package accurately represents the information in the raw data found herein, both technically and for completeness. Release of the data contained in this data package has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature.

Signature: _____ Name: ESC Lab Sciences

Date: _____ Title: Quality Control

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test:	Volatile Organic Compounds by Method 8260C		
Project No:	2151305	Matrix:	Water - mg/L
Project:	Former Photech Imaging Site	EPA ID:	TN00003
Collection Date:	10/7/2015	**Analytic Batch:**	**WG822246**
Analysis Date:	10/16/2015	Analyst:	189
Instrument ID:	VOCMS25		

Sample Numbers: L793892-01, -02, -03, -04, -05, -06, -07, -08, -10, -11, -12, -13, -14, -16

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS25	LCS WG822246	LCS WG822246	1016_04.D	10/16/2015	11:06 AM
VOCMS25	LCSD WG822246	LCSD WG822246	1016_05.D	10/16/2015	11:24 AM
VOCMS25	Blank WG822246	Blank WG822246	1016_09.D	10/16/2015	12:37 PM
VOCMS25	EQ BLANK	L793892-14	1016_10.D	10/16/2015	1:00 PM
VOCMS25	TRIP BLANK	L793892-16	1016_11.D	10/16/2015	1:18 PM
VOCMS25	RMW-7	L793892-06	1016_12.D	10/16/2015	1:36 PM
VOCMS25	MS WG822246	MS WG822246	1016_13.D	10/16/2015	1:55 PM
VOCMS25	MSD WG822246	MSD WG822246	1016_14.D	10/16/2015	2:13 PM
VOCMS25	RMW-5	L793892-01	1016_17.D	10/16/2015	3:08 PM
VOCMS25	RMW-6	L793892-02	1016_18.D	10/16/2015	3:26 PM
VOCMS25	RMW-8	L793892-03	1016_19.D	10/16/2015	3:44 PM
VOCMS25	RMW-9	L793892-04	1016_20.D	10/16/2015	4:02 PM
VOCMS25	BLIND DUP	L793892-05	1016_21.D	10/16/2015	4:21 PM
VOCMS25	RMW-4	L793892-07	1016_22.D	10/16/2015	4:39 PM
VOCMS25	WELL-07	L793892-08	1016_23.D	10/16/2015	4:57 PM
VOCMS25	WELL-09	L793892-10	1016_25.D	10/16/2015	5:34 PM
VOCMS25	RMW-2	L793892-11	1016_26.D	10/16/2015	5:52 PM
VOCMS25	RMW-1	L793892-12	1016_27.D	10/16/2015	6:10 PM
VOCMS25	WELL-04	L793892-13	1016_28.D	10/16/2015	6:28 PM

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test:	Volatile Organic Compounds by Method 8260C		
Project No:	2151305	Matrix:	Water - mg/L
Project:	Former Photech Imaging Site	EPA ID:	TN00003
Collection Date:	10/7/2015	**Analytic Batch:**	**WG822564**
Analysis Date:	10/19/2015	Analyst:	189
Instrument ID:	VOCMS30		
Sample Numbers:	L793892-09		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS30	LCS WG822564	LCS WG822564	1019_04.D	10/19/2015	5:32 AM
VOCMS30	LCSD WG822564	LCSD WG822564	1019_05.D	10/19/2015	5:54 AM
VOCMS30	Blank WG822564	Blank WG822564	1019_10.D	10/19/2015	7:47 AM
VOCMS30	MS WG822564	MS WG822564	1019_14.D	10/19/2015	9:18 AM
VOCMS30	MSD WG822564	MSD WG822564	1019_15.D	10/19/2015	9:40 AM
VOCMS30	RMW-3	L793892-09	1019_30.D	10/19/2015	3:19 PM

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test:	Volatile Organic Compounds by Method 8260C		
Project No:	2151305	Matrix:	Water - mg/L
Project:	Former Photech Imaging Site	EPA ID:	TN00003
Collection Date:	10/7/2015	**Analytic Batch:**	**WG822800**
Analysis Date:	10/18/2015	Analyst:	522
Instrument ID:	VOCMS8		
Sample Numbers:	L793892-09		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS8	LCS WG822800	LCS WG822800	1018_34.D	10/18/2015	9:04 PM
VOCMS8	LCSD WG822800	LCSD WG822800	1018_35.D	10/18/2015	9:28 PM
VOCMS8	Blank WG822800	Blank WG822800	1018_40.D	10/18/2015	11:27 PM
VOCMS8	MS WG822800	MS WG822800	1018_41.D	10/18/2015	11:51 PM
VOCMS8	MSD WG822800	MSD WG822800	1018_42.D	10/19/2015	12:15 AM
VOCMS8	RMW-3	L793892-09	1018_48.D	10/19/2015	2:41 AM

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 2151305 Matrix: Water - mg/L
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015 **Analytic Batch: WG822246**
Analysis Date: 10/16/2015 Analyst: 189
Instrument ID: VOCMS25
Sample Numbers: L793892-01, -02, -03, -04, -05, -06, -07, -08, -10, -11, -12, -13, -14, -16

Internal Standard Response and Retention Time Summary

File ID: 1016_02
Analyzed: 10/16/15 102000

	IS1		IS2		IS3		IS4	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	443127	3.77	733979	4.09	128097	5.23	339532	7.63
Upper Limit	886000	4.27	1470000	4.59	256000	5.73	679000	8.13
Lower Limit	222000	3.27	367000	3.59	64000	4.73	170000	7.13
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L793892-14	410942	3.77	688100	4.09	110529	5.23	306685	7.63
L793892-16	352649	3.77	578728	4.09	98932	5.23	287149	7.63
L793892-06	374896	3.77	634723	4.09	109072	5.23	293609	7.63
L793892-01	389815	3.77	667034	4.09	113923	5.23	314027	7.63
L793892-02	395372	3.77	632190	4.09	109416	5.23	315166	7.63
L793892-03	392548	3.77	627915	4.09	108602	5.23	307871	7.63
L793892-04	366871	3.77	591486	4.09	101847	5.23	288460	7.63
L793892-05	349256	3.77	593126	4.09	99266	5.23	281094	7.63
L793892-07	354283	3.77	564972	4.09	97885	5.23	276377	7.63
L793892-08	346349	3.77	580069	4.09	94825	5.23	268758	7.63
L793892-10	326517	3.77	518280	4.09	88249	5.23	252238	7.63
L793892-11	327785	3.77	518905	4.09	89353	5.23	252064	7.63
L793892-12	308700	3.77	513968	4.09	87263	5.23	248999	7.63
L793892-13	316013	3.77	512835	4.09	84765	5.23	244231	7.63
MSD WG822246	371159	3.77	610191	4.09	104471	5.23	293818	7.63
MS WG822246	376827	3.77	623753	4.09	107614	5.23	300583	7.63
LCSD WG822246	459341	3.77	771390	4.09	130830	5.23	337301	7.63
LCS WG822246	443101	3.77	715439	4.09	122137	5.23	337627	7.63
BLANK WG822246	413361	3.77	681950	4.09	116131	5.23	319987	7.63

Legend:
IS1 -- PENTAFLUOROBENZENE
IS2 -- 1,4-DIFLUOROBENZENE
IS3 -- 2-BROMO-1-CHLOROPROPANE
IS4 -- 1,4-DICHLOROBENZENE-D4

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test:	Volatile Organic Compounds by Method 8260C		
Project No:	2151305	Matrix:	Water - mg/L
Project:	Former Photech Imaging Site	EPA ID:	TN00003
Collection Date:	10/7/2015	**Analytic Batch:**	**WG822564**
Analysis Date:	10/19/2015	Analyst:	189
Instrument ID:	VOCMS30		
Sample Numbers:	L793892-09		

Internal Standard Response and Retention Time Summary

File ID: 1019_02
Analyzed: 10/19/15 041900

	IS1		IS2		IS3		IS4	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	562018	4.35	911939	4.69	129892	5.86	410186	8.24
Upper Limit	1120000	4.85	1820000	5.19	260000	6.36	820000	8.74
Lower Limit	281000	3.85	456000	4.19	64900	5.36	205000	7.74
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L793892-09	594977	4.35	927215	4.69	129426	5.86	427214	8.25
MSD WG822564	566447	4.35	908760	4.69	127560	5.86	410449	8.24
MS WG822564	472798	4.35	763706	4.69	110493	5.86	344895	8.24
LCSD WG822564	563880	4.35	914073	4.69	126933	5.86	404635	8.24
LCS WG822564	567956	4.35	914496	4.69	126966	5.86	411752	8.24
BLANK WG822564	624306	4.35	976991	4.69	134923	5.86	440852	8.24

Legend:
IS1 -- PENTAFLUOROBENZENE
IS2 -- 1,4-DIFLUOROBENZENE
IS3 -- 2-BROMO-1-CHLOROPROPANE
IS4 -- 1,4-DICHLOROBENZENE-D4

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test:	Volatile Organic Compounds by Method 8260C		
Project No:	2151305	Matrix:	Water - mg/L
Project:	Former Photech Imaging Site	EPA ID:	TN00003
Collection Date:	10/7/2015	**Analytic Batch:**	**WG822800**
Analysis Date:	10/18/2015	Analyst:	522
Instrument ID:	VOCMS8		
Sample Numbers:	L793892-09		

Internal Standard Response and Retention Time Summary

File ID: 1018_33
Analyzed: 10/18/15 203400

	IS1		IS2		IS3		IS4	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	401320	4.56	748626	4.90	126192	6.08	306625	8.48
Upper Limit	803000	5.06	1500000	5.40	252000	6.58	613000	8.98
Lower Limit	201000	4.06	374000	4.40	63100	5.58	153000	7.98
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L793892-09	474047	4.55	825406	4.88	140461	6.07	331847	8.47
MSD WG822800	403142	4.56	735775	4.90	126358	6.09	292221	8.48
MS WG822800	392790	4.56	733629	4.90	125897	6.09	284664	8.48
LCSD WG822800	413417	4.56	752983	4.90	126839	6.08	303914	8.48
LCS WG822800	411701	4.56	757254	4.90	122918	6.08	300214	8.48
BLANK WG822800	381306	4.56	668087	4.90	107902	6.09	253520	8.49

Legend:
IS1 -- PENTAFLUOROBENZENE
IS2 -- 1,4-DIFLUOROBENZENE
IS3 -- 2-BROMO-1-CHLOROPROPANE
IS4 -- 1,4-DICHLOROBENZENE-D4

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 2151305 Matrix: Water - mg/L
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015 **Analytic Batch: WG822246**
Analysis Date: 10/16/2015 Analyst: 189
Instrument ID: VOCMS25
Sample Numbers: L793892-01, -02, -03, -04, -05, -06, -07, -08, -10, -11, -12, -13, -14, -16

Surrogate Summary

			BFB		TFT		DFM		TD8	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L793892-01	VOCMS25	1016_17	0.0414	103	0.0412	103	0.0387	96.8	0.0409	102
L793892-02	VOCMS25	1016_18	0.0432	108	0.0424	106	0.0382	95.4	0.0414	103
L793892-03	VOCMS25	1016_19	0.0423	106	0.0440	110	0.0381	95.1	0.0420	105
L793892-04	VOCMS25	1016_20	0.0425	106	0.0426	107	0.0399	99.8	0.0415	104
L793892-05	VOCMS25	1016_21	0.0433	108	0.0419	105	0.0396	99.0	0.0412	103
L793892-06	VOCMS25	1016_12	0.0418	104	0.0427	107	0.0406	102	0.0423	106
L793892-07	VOCMS25	1016_22	0.0430	108	0.0445	111	0.0397	99.3	0.0430	107
L793892-08	VOCMS25	1016_23	0.0427	107	0.0424	106	0.0382	95.4	0.0403	101
L793892-10	VOCMS25	1016_25	0.0436	109	0.0426	106	0.0388	97.1	0.0412	103
L793892-11	VOCMS25	1016_26	0.0428	107	0.0429	107	0.0384	96.1	0.0425	106
L793892-12	VOCMS25	1016_27	0.0415	104	0.0418	105	0.0393	98.1	0.0399	99.8
L793892-13	VOCMS25	1016_28	0.0426	106	0.0416	104	0.0378	94.4	0.0416	104
L793892-14	VOCMS25	1016_10	0.0430	107	0.0426	106	0.0380	94.9	0.0410	103
L793892-16	VOCMS25	1016_11	0.0438	110	0.0436	109	0.0397	99.3	0.0419	105
LCS WG822246	VOCMS25	1016_04	0.0407	102	0.0421	105	0.0385	96.3	0.0432	108
LCSD WG822246	VOCMS25	1016_05	0.0409	102	0.0411	103	0.0396	99.0	0.0409	102
BLANK WG822246	VOCMS25	1016_09	0.0424	106	0.0419	105	0.0396	99.1	0.0426	107
MS WG822246	VOCMS25	1016_13	0.0417	104	0.0415	104	0.0391	97.9	0.0418	104
MSD WG822246	VOCMS25	1016_14	0.0420	105	0.0422	105	0.0390	97.6	0.0419	105

BFB --4-BROMOFLUOROBENZENE	True Value: 0.04 ppm	Limits: 80.1 - 120
TFT --A,A,A-TRIFLUOROTOLUENE	True Value: 0.04 ppm	Limits: 90.4 - 116
DFM --DIBROMOFLUOROMETHANE	True Value: 0.04 ppm	Limits: 79 - 121
TD8 --TOLUENE-D8	True Value: 0.04 ppm	Limits: 90 - 115

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test:	Volatile Organic Compounds by Method 8260C		
Project No:	2151305	Matrix:	Water - mg/L
Project:	Former Photech Imaging Site	EPA ID:	TN00003
Collection Date:	10/7/2015	**Analytic Batch:**	**WG822564**
Analysis Date:	10/19/2015	Analyst:	189
Instrument ID:	VOCMS30		
Sample Numbers:	L793892-09		

Surrogate Summary

			BFB		TFT		DFM		TD8	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L793892-09	VOCMS30	1019_30	0.0414	103	0.0441	110	0.0364	90.9	0.0405	101
LCS WG822564	VOCMS30	1019_04	0.0422	105	0.0444	111	0.0365	91.2	0.0411	103
LCSD WG822564	VOCMS30	1019_05	0.0419	105	0.0445	111	0.0374	93.4	0.0409	102
BLANK WG822564	VOCMS30	1019_10	0.0416	104	0.0445	111	0.0364	91.0	0.0405	101
MS WG822564	VOCMS30	1019_14	0.0415	104	0.0437	109	0.0377	94.2	0.0410	103
MSD WG822564	VOCMS30	1019_15	0.0416	104	0.0440	110	0.0367	91.8	0.0409	102

BFB --4-BROMOFLUOROBENZENE	True Value: 0.04 ppm	Limits: 80.1 - 120
TFT --A,A,A-TRIFLUOROTOLUENE	True Value: 0.04 ppm	Limits: 90.4 - 116
DFM --DIBROMOFLUOROMETHANE	True Value: 0.04 ppm	Limits: 79 - 121
TD8 --TOLUENE-D8	True Value: 0.04 ppm	Limits: 90 - 115

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test:	Volatile Organic Compounds by Method 8260C		
Project No:	2151305	Matrix:	Water - mg/L
Project:	Former Photech Imaging Site	EPA ID:	TN00003
Collection Date:	10/7/2015	**Analytic Batch:**	**WG822800**
Analysis Date:	10/18/2015	Analyst:	522
Instrument ID:	VOCMS8		
Sample Numbers:	L793892-09		

Surrogate Summary

			BFB		TFT		DFM		TD8	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L793892-09	VOCMS8	1018_48	0.0409	102	0.0429	107	0.0397	99.2	0.0425	106
LCS WG822800	VOCMS8	1018_34	0.0411	103	0.0410	102	0.0399	99.7	0.0417	104
LCSD WG822800	VOCMS8	1018_35	0.0392	97.9	0.0419	105	0.0392	98.0	0.0422	105
BLANK WG822800	VOCMS8	1018_40	0.0403	101	0.0415	104	0.0380	94.9	0.0419	105
MS WG822800	VOCMS8	1018_41	0.0397	99.3	0.0405	101	0.0416	104	0.0425	106
MSD WG822800	VOCMS8	1018_42	0.0385	96.2	0.0403	101	0.0403	101	0.0414	104

BFB --4-BROMOFLUOROBENZENE	True Value: 0.04 ppm	Limits: 80.1 - 120
TFT --A,A,A-TRIFLUOROTOLUENE	True Value: 0.04 ppm	Limits: 90.4 - 116
DFM --DIBROMOFLUOROMETHANE	True Value: 0.04 ppm	Limits: 79 - 121
TD8 --TOLUENE-D8	True Value: 0.04 ppm	Limits: 90 - 115

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: VOCMS25

Instrument Performance Summary

FileID: 1016_02.D Date: 10/16/2015 Time: 10:20 AM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	20.2
75	30 - 60% of mass 95	48.5
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.4
173	0 - 2% of mass 174	0
174	50 - 150% of mass 95	79.2
175	5 - 9% of mass 174	8.3
176	95 - 101% of mass 174	98.5
177	5 - 9% of mass 176	6.7

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG822246	LCS WG822246	1016_04.D	10/16/2015	11:06 AM
LCSD WG822246	LCSD WG822246	1016_05.D	10/16/2015	11:24 AM
Blank WG822246	Blank WG822246	1016_09.D	10/16/2015	12:37 PM
EQ BLANK	L793892-14	1016_10.D	10/16/2015	1:00 PM
TRIP BLANK	L793892-16	1016_11.D	10/16/2015	1:18 PM
RMW-7	L793892-06	1016_12.D	10/16/2015	1:36 PM
MS WG822246	MS WG822246	1016_13.D	10/16/2015	1:55 PM
MSD WG822246	MSD WG822246	1016_14.D	10/16/2015	2:13 PM
RMW-5	L793892-01	1016_17.D	10/16/2015	3:08 PM
RMW-6	L793892-02	1016_18.D	10/16/2015	3:26 PM
RMW-8	L793892-03	1016_19.D	10/16/2015	3:44 PM
RMW-9	L793892-04	1016_20.D	10/16/2015	4:02 PM
BLIND DUP	L793892-05	1016_21.D	10/16/2015	4:21 PM
RMW-4	L793892-07	1016_22.D	10/16/2015	4:39 PM
WELL-07	L793892-08	1016_23.D	10/16/2015	4:57 PM
WELL-09	L793892-10	1016_25.D	10/16/2015	5:34 PM
RMW-2	L793892-11	1016_26.D	10/16/2015	5:52 PM
RMW-1	L793892-12	1016_27.D	10/16/2015	6:10 PM
WELL-04	L793892-13	1016_28.D	10/16/2015	6:28 PM

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: VOCMS30

Instrument Performance Summary

FileID: 1019_02.D Date: 10/19/2015 Time: 4:19 AM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	15.5
75	30 - 60% of mass 95	44.2
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	7.1
173	0 - 2% of mass 174	0
174	50 - 150% of mass 95	76.6
175	5 - 9% of mass 174	7.6
176	95 - 101% of mass 174	95.4
177	5 - 9% of mass 176	7.1

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG822564	LCS WG822564	1019_04.D	10/19/2015	5:32 AM
LCSD WG822564	LCSD WG822564	1019_05.D	10/19/2015	5:54 AM
Blank WG822564	Blank WG822564	1019_10.D	10/19/2015	7:47 AM
MS WG822564	MS WG822564	1019_14.D	10/19/2015	9:18 AM
MSD WG822564	MSD WG822564	1019_15.D	10/19/2015	9:40 AM
RMW-3	L793892-09	1019_30.D	10/19/2015	3:19 PM

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: VOCMS8

Instrument Performance Summary

FileID: 1018_33.D Date: 10/18/2015 Time: 8:34 PM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	16.4
75	30 - 60% of mass 95	48.4
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.3
173	0 - 2% of mass 174	0
174	50 - 150% of mass 95	81.3
175	5 - 9% of mass 174	7.5
176	95 - 101% of mass 174	96
177	5 - 9% of mass 176	6.6

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG822800	LCS WG822800	1018_34.D	10/18/2015	9:04 PM
LCSD WG822800	LCSD WG822800	1018_35.D	10/18/2015	9:28 PM
Blank WG822800	Blank WG822800	1018_40.D	10/18/2015	11:27 PM
MS WG822800	MS WG822800	1018_41.D	10/18/2015	11:51 PM
MSD WG822800	MSD WG822800	1018_42.D	10/19/2015	12:15 AM
RMW-3	L793892-09	1018_48.D	10/19/2015	2:41 AM

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

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Test: Volatile Organic Compounds by Method 8260C
Project: Former Photech Imaging Site
Instrument ID: VOCMS8
Method Name : V808J11O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .50	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
TPH (GC/MS) LOW FRACTION										0.000000	0.00
PROPENE	0.118	0.163	0.144	0.132	0.112	0.120	0.117	0.122	0.124	0.128242	11.09
DICHLORODIFLUOROMETHANE		0.288	0.332	0.387	0.412	0.427	0.397	0.416	0.428	0.394819	12.15
CHLOROMETHANE			1.082	1.012	0.854	0.750	0.622	0.605	0.579	0.736825	27.35
VINYL CHLORIDE		0.486	0.502	0.589	0.564	0.578	0.570	0.585	0.594	0.565211	6.99
1,3-BUTADIENE	0.223	0.328	0.341	0.383	0.384	0.413	0.366	0.390	0.381	0.363547	14.45
BROMOMETHANE		0.137	0.140	0.141	0.117	0.126	0.113	0.111	0.115	0.123916	9.22
CHLOROETHANE				0.258	0.290	0.268	0.211	0.192		0.243818	16.80
TRICHLOROFLUOROMETHANE		0.469	0.535	0.591	0.585	0.587	0.551	0.521	0.522	0.518853	13.89
DICHLOROFLUORMETHANE		0.640	0.696	0.768	0.773	0.813	0.761	0.788	0.778	0.743990	8.04
ETHYL ETHER		0.294	0.312	0.345	0.348	0.372	0.351	0.367	0.380	0.353234	8.54
ACROLEIN		0.072	0.071	0.087	0.079	0.088	0.092	0.092	0.096	0.086561	10.88
1,1-DICHLOROETHENE		0.297	0.324	0.365	0.356	0.392	0.373	0.376	0.397	0.371076	10.25
1,1,2-TRICHLOROTRIFLUOROETHANE		0.324	0.336	0.370	0.384	0.395	0.365	0.393	0.390	0.374091	6.81
ACETONE	0.242	0.289	0.263	0.288	0.264	0.277	0.257	0.256	0.272	0.263090	6.64
IODOMETHANE	0.234	0.256	0.235	0.271	0.300	0.369	0.416	0.460	0.466	0.360565	28.68
CARBON DISULFIDE	1.157	1.408	1.356	1.385	1.330	1.392	1.394	1.432	1.465	1.400090	7.55
METHYLENE CHLORIDE		0.347	0.379	0.430	0.414	0.436	0.396	0.414	0.440	0.414510	7.75
ACRYLONITRILE		0.137	0.138	0.159	0.162	0.174	0.164	0.170	0.176	0.163876	9.39
n-HEXANE		0.373	0.420	0.465	0.449	0.474	0.444	0.459	0.482	0.456235	8.34
TRANS-1,2-DICHLOROETHENE		0.362	0.387	0.425	0.411	0.438	0.424	0.445	0.453	0.425967	7.43
METHYL TERT-BUTYL ETHER		1.125	1.068	1.245	1.178	1.248	1.200	1.264	1.318	1.230938	7.36
1,1-DICHLOROETHANE		0.601	0.711	0.751	0.724	0.787	0.758	0.810	0.829	0.767474	10.07
VINYL ACETATE	0.410	0.641	0.597	0.662	0.620	0.727	0.664	0.687	0.764	0.652154	14.55
DI-ISOPROPYL ETHER		1.226	1.235	1.347	1.300	1.368	1.311	1.417	1.420	1.358483	6.78
2,2-DICHLOROPROPANE		0.616	0.605	0.665	0.641	0.678	0.638	0.665	0.706	0.665618	6.23
CIS-1,2-DICHLOROETHENE		0.375	0.426	0.455	0.438	0.472	0.449	0.458	0.464	0.449269	6.94
2-BUTANONE (MEK)	0.209	0.293	0.266	0.316	0.292	0.317	0.308	0.304	0.343	0.300812	12.43

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project: Former Photech Imaging Site
Instrument ID: VOCMS8
Method Name : V808J11O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .50	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
BROMOCHLOROMETHANE		0.160	0.182	0.230	0.230	0.234	0.214	0.215	0.221	0.211291	11.26
TETRAHYDROFURAN	0.196	0.192	0.148	0.163	0.153	0.162	0.155	0.155	0.165	0.164754	9.31
CHLOROFORM	0.436	0.655	0.645	0.728	0.676	0.709	0.673	0.728	0.712	0.675880	12.73
DIBROMOFLUOROMETHANE	0.501	0.487	0.502	0.528	0.479	0.494	0.492	0.506	0.507	0.499796	2.57
1,1,1-TRICHLOROETHANE		0.519	0.507	0.565	0.565	0.596	0.552	0.585	0.635	0.581113	8.47
CARBON TETRACHLORIDE		0.417	0.435	0.478	0.492	0.516	0.490	0.491	0.532	0.494668	8.89
1,1-DICHLOROPROPENE		0.474	0.534	0.603	0.560	0.604	0.576	0.606	0.628	0.586543	8.91
2,2,4-TRIMETHYLPENTANE	1.508	2.261	2.245	2.441	2.375	2.519	2.465	2.531	2.578	2.396259	13.93
HEPTANE		0.372	0.458	0.514	0.516	0.568	0.529	0.567	0.586	0.532810	13.90
BENZENE		1.703	1.627	1.890	1.813	1.841	1.745	1.806	1.857	1.819298	5.84
1,2-DICHLOROETHANE		0.490	0.464	0.541	0.501	0.529	0.523	0.551	0.559	0.531972	7.28
TRICHLOROETHENE		0.222	0.228	0.237	0.236	0.250	0.234	0.248	0.240	0.236819	4.05
1,2-DICHLOROPROPANE		0.168	0.165	0.181	0.173	0.178	0.179	0.186	0.184	0.178454	4.25
DIBROMOMETHANE		0.095	0.106	0.113	0.118	0.126	0.123	0.134	0.131	0.120372	10.51
BROMODICHLOROMETHANE		0.283	0.264	0.293	0.276	0.300	0.296	0.306	0.295	0.292548	5.10
A,A,A-TRIFLUOROTOLUENE	0.531	0.513	0.519	0.530	0.517	0.512	0.508	0.522	0.508	0.511911	3.02
2-CHLOROETHYL VINYL ETHER		0.102	0.106	0.116	0.115	0.126	0.131	0.136	0.136	0.122969	10.02
CIS-1,3-DICHLOROPROPENE		0.326	0.343	0.392	0.367	0.384	0.392	0.409	0.412	0.384967	8.22
4-METHYL-2-PENTANONE (MIBK)		0.186	0.194	0.221	0.222	0.241	0.253	0.247	0.264	0.232824	11.28
TOLUENE-D8	1.235	1.264	1.210	1.239	1.148	1.214	1.153	1.276	1.179	1.201630	4.01
TOLUENE	0.991	1.147	1.047	1.104	1.006	1.138	1.024	1.142	1.070	1.077083	5.11
TRANS-1,3-DICHLOROPROPENE		0.282	0.276	0.309	0.310	0.339	0.347	0.364	0.369	0.332022	10.85
1,1,2-TRICHLOROETHANE		1.064	1.140	1.178	1.204	1.213	1.186	1.198	1.232	1.176398	4.16
TETRACHLOROETHENE		0.883	1.069	1.054	1.117	1.047	1.077	1.014	1.034	1.032996	5.98
1,3-DICHLOROPROPANE	1.800	2.534	2.131	2.333	2.285	2.212	2.310	2.203	2.250	2.233142	7.90
2-HEXANONE				0.539	0.689	0.767	0.788	0.774	0.828	0.760402	13.63
CHLORODIBROMOMETHANE		1.090	1.076	1.161	1.170	1.189	1.251	1.206	1.246	1.185772	5.32
1,2-DIBROMOETHANE		0.882	1.042	1.103	1.153	1.170	1.211	1.149	1.257	1.128785	9.20
CHLOROBENZENE	2.254	3.473	3.406	3.662	4.013	3.979	3.942	3.760	3.990	3.630055	13.81

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Test: Volatile Organic Compounds by Method 8260C
Project: Former Photech Imaging Site
Instrument ID: VOCMS8
Method Name : V808J11O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .50	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
1,1,1,2-TETRACHLOROETHANE		1.034	0.964	1.046	1.210	1.158	1.201	1.143	1.219	1.125942	7.50
ETHYLBENZENE		1.897	2.001	2.124	2.288	2.150	2.183	2.093	2.286	2.142800	5.76
M&P-XYLENE		2.516	2.404	2.570	2.873	2.867	2.766	2.746	2.801	2.686143	6.17
O-XYLENE		2.199	2.260	2.382	2.649	2.561	2.629	2.524	2.678	2.513419	6.97
STYRENE		3.332	3.400	3.820	4.112	4.224	4.290	4.128	4.374	4.027356	9.48
BROMOFORM			0.608	0.686	0.681	0.720	0.751	0.754	0.820	0.726377	8.45
ISOPROPYLBENZENE	5.098	6.572	6.529	6.889	7.168	7.035	6.922	6.793	7.311	6.687701	8.85
4-BROMOFLUOROBENZENE	2.792	2.748	2.685	2.714	2.758	2.615	2.658	2.601	2.647	2.653572	3.86
BROMOBENZENE	1.964	2.677	2.824	3.088	3.081	3.039	3.000	2.909	3.069	2.886897	11.52
1,1,2,2-TETRACHLOROETHANE		1.260	1.448	1.568	1.639	1.686	1.679	1.673	1.695	1.590968	8.72
1,2,3-TRICHLOROPROPANE			0.404	0.416	0.466	0.498	0.494	0.460	0.501	0.462890	7.42
TRANS-1,4-DICHLORO-2-BUTENE				0.269	0.410	0.429	0.493	0.479	0.520	0.454591	18.89
N-PROPYLBENZENE	5.163	7.645	7.655	7.968	8.109	8.386	8.476	8.486	8.301	7.853077	11.94
4-ETHYLTOLUENE	4.814	6.057	6.041	6.489	6.799	6.746	6.767	6.698	6.944	6.425066	9.50
2-CHLOROTOLUENE	3.270	5.233	5.226	5.059	5.415	5.334	5.349	5.141	5.552	5.121402	12.29
4-CHLOROTOLUENE	3.234	4.597	4.705	4.794	4.895	4.861	4.802	4.819	5.162	4.682471	10.71
1,3,5-TRIMETHYLBENZENE		5.316	5.540	5.444	5.705	5.803	5.561	5.599	5.906	5.577756	3.36
TERT-BUTYLBENZENE	2.802	4.210	4.428	4.729	4.857	4.724	5.029	4.581	4.836	4.512111	13.53
1,2,4-TRIMETHYLBENZENE	3.540	4.593	4.893	5.036	5.304	5.529	5.516	5.400	5.752	5.120245	12.06
SEC-BUTYLBENZENE	4.853	7.091	6.737	7.366	7.634	7.478	7.683	7.175	7.310	7.101182	11.36
1,3-DICHLOROBENZENE	1.904	2.657	2.585	2.785	2.998	2.842	2.800	2.805	2.847	2.674036	10.76
P-ISOPROPYLTOLUENE		4.995	4.982	5.346	6.010	6.141	6.352	6.249	6.090	5.795738	8.71
DICYCLOPENTADIENE		5.617	5.920	6.635	6.705	6.846	7.116	6.792	7.151	6.710897	8.19
1,4-DICHLOROBENZENE	0.992	1.220	1.210	1.152	1.201	1.154	1.122	1.109	1.182	1.144261	6.02
1,2,3-TRIMETHYLBENZENE	1.514	2.088	2.021	2.169	2.213	2.127	2.186	2.249	2.511	2.159660	11.99
1,2-DICHLOROBENZENE		0.921	0.946	1.017	1.034	1.044	1.024	1.041	1.110	1.038081	6.91
N-BUTYLBENZENE		1.686	1.674	1.977	2.018	2.131	2.174	2.218	2.423	2.131984	14.25
1,2-DIBROMO-3-CHLOROPROPANE					0.102	0.111	0.125	0.124	0.146	0.128901	15.27
1,2,4-TRICHLOROBENZENE			0.446	0.561	0.565	0.629	0.641	0.652	0.683	0.622386	14.44

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Test: Volatile Organic Compounds by Method 8260C
Project: Former Photech Imaging Site
Instrument ID: VOCMS8
Method Name : V808J11O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .50	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
HEXACHLORO-1,3-BUTADIENE		0.319	0.317	0.348	0.356	0.338	0.340	0.364	0.383	0.352617	7.20
NAPHTHALENE				1.629	1.599	1.642	1.749	1.801	1.948	1.775199	9.15
1,2,3-TRICHLOROBENZENE		0.485	0.507	0.532	0.600	0.589	0.602	0.610	0.689	0.601159	13.23
1-METHYLNAPHTHALENE		0.705	0.728	0.780	0.823	0.918	0.940	0.944	1.027	0.881880	13.11
2-METHYLNAPHTHALENE		0.761	0.703	0.833	0.902	0.938	0.907	0.905	0.901	0.863558	9.11
ETHANOL										0.007077	8.69
BROMOETHANE										0.357787	5.58
2-PROPANOL										0.039593	10.47
METHYL ACETATE										0.382028	4.55
ACETONITRILE										0.068815	6.13
ALLYL CHLORIDE										0.247308	3.11
TERT-BUTYL ALCOHOL										0.088899	6.70
CHLOROPRENE										0.789699	3.12
ETHYL TERT-BUTYL ETHER										1.351952	1.92
PROPIONITRILE										0.086718	4.25
ETHYL ACETATE										0.500533	2.51
METHACRYLONITRILE										0.227446	3.66
CYCLOHEXANE										1.227759	2.51
TERT-BUTYL FORMATE										0.381257	1.74
ISOBUTANOL										0.037306	7.95
T-AMYL ALCOHOL										0.060322	8.01
TERT-AMYL METHYL ETHER										1.607601	2.27
N-BUTANOL										0.011075	11.54
METHYL CYCLOHEXANE										0.819583	13.68
2-NITROPROPANE										0.077769	9.58
METHYL METHACRYLATE										0.233798	4.36
1,4-DIOXANE										0.003604	10.02
N-OCTANE										0.310344	5.78
3,3-DIMETHYL-1-BUTANOL										0.000000	0.00

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Test: Volatile Organic Compounds by Method 8260C
Project: Former Photech Imaging Site
Instrument ID: VOCMS8
Method Name : V808J11O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .50	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
ETHYL METHACRYLATE										1.723178	8.21
CIS-1,4-DICHLORO-2-BUTENE										0.475082	10.74
CYCLOHEXANONE										0.000000	0.00
PENTACHLOROETHANE										0.760818	6.03
HEXACHLOROETHANE										1.032851	7.40

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Est. 1970

Test: Volatile Organic Compounds by Method 8260C
Project: Former Photech Imaging Site
Instrument ID: VOCMS25
Method Name : V825I15O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
TPH (GC/MS) LOW FRACTION										0.000000	0.00
PROPENE				0.160	0.103	0.082	0.076	0.079	0.068	0.088783	34.79
DICHLORODIFLUOROMETHANE	0.569	0.514	0.527	0.533	0.526	0.516	0.513	0.504	0.509	0.520576	3.61
CHLOROMETHANE		0.987	0.868	0.809	0.740	0.709	0.713	0.697	0.664	0.756280	13.51
VINYL CHLORIDE	0.638	0.561	0.566	0.594	0.584	0.589	0.587	0.593	0.589	0.595768	4.12
1,3-BUTADIENE	0.429	0.313	0.306	0.416	0.376	0.398	0.419	0.409	0.400	0.391926	11.11
BROMOMETHANE	0.410	0.483	0.570	0.426	0.460	0.430	0.419	0.401	0.400	0.439240	11.39
CHLOROETHANE	0.328	0.350	0.322	0.352	0.306	0.305	0.300	0.296	0.298	0.303617	12.10
TRICHLOROFLUOROMETHANE	0.732	0.743	0.775	0.760	0.717	0.730	0.729	0.717	0.710	0.735035	2.60
DICHLOROFLUOROMETHANE	0.962	1.035	0.986	0.941	0.924	0.892	0.913	0.903	0.863	0.926049	5.60
ETHYL ETHER	0.389	0.312	0.370	0.363	0.346	0.342	0.352	0.331	0.324	0.346166	6.30
ACROLEIN		0.057	0.064	0.057	0.054	0.061	0.058	0.056	0.056	0.059401	7.80
1,1-DICHLOROETHENE	0.738	0.789	0.690	0.714	0.695	0.681	0.695	0.664	0.656	0.695883	5.64
1,1,2-TRICHLOROTRIFLUOROETHANE	0.442	0.443	0.403	0.432	0.441	0.409	0.435	0.411	0.402	0.421258	4.00
ACETONE		0.301	0.252	0.234	0.232	0.207	0.226	0.215	0.216	0.244643	13.41
IODOMETHANE		1.261	1.022	0.950	0.893	0.867	0.864	0.854	0.865	0.928202	13.89
CARBON DISULFIDE		2.166	1.834	1.703	1.566	1.526	1.576	1.508	1.480	1.642524	12.95
METHYLENE CHLORIDE		0.709	0.630	0.579	0.559	0.530	0.540	0.526	0.528	0.564212	10.88
ACRYLONITRILE	0.202	0.177	0.181	0.185	0.187	0.184	0.196	0.189	0.187	0.188317	3.90
n-Hexane	0.580	0.504	0.461	0.484	0.488	0.475	0.482	0.453	0.448	0.478663	8.21
TRANS-1,2-DICHLOROETHENE	0.524	0.538	0.535	0.529	0.529	0.510	0.506	0.501	0.492	0.512327	3.86
METHYL TERT-BUTYL ETHER	1.362	1.370	1.267	1.311	1.339	1.267	1.343	1.292	1.269	1.309696	2.91
1,1-DICHLOROETHANE	1.041	1.021	1.095	1.000	1.017	1.004	1.008	0.973	0.966	1.001663	4.34
VINYL ACETATE	1.194	1.169	1.074	1.119	1.105	1.164	1.222	1.100	1.113	1.122988	5.25
DI-ISOPROPYL ETHER	1.877	1.889	1.965	1.912	1.915	1.904	1.936	1.888	1.835	1.892424	2.09
2,2-Dichloropropane	0.802	0.621	0.656	0.634	0.606	0.589	0.629	0.579	0.552	0.611741	12.56
CIS-1,2-DICHLOROETHENE	0.608	0.585	0.585	0.572	0.570	0.571	0.574	0.543	0.536	0.565601	4.20
2-BUTANONE (MEK)	0.354	0.367	0.321	0.350	0.343	0.343	0.364	0.341	0.349	0.352695	4.55

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Test: Volatile Organic Compounds by Method 8260C
Project: Former Photech Imaging Site
Instrument ID: VOCMS25
Method Name : V825I15O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
BROMOCHLOROMETHANE	0.356	0.369	0.337	0.352	0.335	0.327	0.343	0.332	0.327	0.339313	4.12
TETRAHYDROFURAN	0.216	0.183	0.163	0.190	0.175	0.170	0.176	0.171	0.164	0.180011	8.41
CHLOROFORM	0.963	0.983	1.005	1.002	0.959	0.936	0.969	0.929	0.902	0.950498	4.02
DIBROMOFLUOROMETHANE	0.623	0.615	0.623	0.621	0.606	0.592	0.605	0.591	0.585	0.602579	2.66
1,1,1-TRICHLOROETHANE	0.728	0.739	0.756	0.737	0.716	0.729	0.721	0.723	0.706	0.725092	2.19
CARBON TETRACHLORIDE	0.780	0.762	0.830	0.785	0.760	0.767	0.777	0.758	0.747	0.773771	2.86
1,1-Dichloropropene	0.702	0.743	0.698	0.737	0.701	0.695	0.704	0.684	0.682	0.698326	3.51
2,2,4-TRIMETHYLPENTANE	2.405	2.306	2.305	2.224	2.104	2.173	2.164	2.079	1.956	2.136814	8.28
HEPTANE	0.855	0.888	1.167	1.077	1.001	1.035	1.039	1.007	0.989	0.997805	8.60
BENZENE	2.479	2.378	2.327	2.214	2.158	2.120	2.076	2.030	1.994	2.161054	7.85
1,2-DICHLOROETHANE	0.741	0.668	0.702	0.721	0.707	0.673	0.677	0.676	0.649	0.682999	4.58
TRICHLOROETHENE	0.305	0.324	0.312	0.312	0.312	0.310	0.303	0.298	0.293	0.306217	2.83
1,2-DICHLOROPROPANE	0.286	0.245	0.244	0.256	0.253	0.260	0.254	0.252	0.249	0.253658	4.70
DIBROMOMETHANE	0.219	0.215	0.193	0.224	0.207	0.213	0.208	0.205	0.200	0.208749	4.12
BROMODICHLOROMETHANE	0.416	0.410	0.425	0.449	0.430	0.442	0.427	0.428	0.430	0.428335	2.49
a,a,a-Trifluorotoluene	0.526	0.536	0.521	0.534	0.518	0.539	0.514	0.503	0.508	0.515838	3.53
2-CHLOROETHYL VINYL ETHER	0.154	0.169	0.164	0.178	0.169	0.179	0.179	0.174	0.174	0.172411	4.61
CIS-1,3-DICHLOROPROPENE	0.487	0.526	0.534	0.524	0.515	0.544	0.526	0.533	0.523	0.524780	2.81
4-METHYL-2-PENTANONE (MIBK)	0.309	0.321	0.304	0.344	0.348	0.366	0.378	0.363	0.361	0.350170	7.91
TOLUENE-D8	1.205	1.217	1.201	1.209	1.149	1.182	1.162	1.145	1.144	1.169282	2.99
TOLUENE	1.576	1.406	1.395	1.335	1.247	1.273	1.240	1.229	1.200	1.309243	8.51
TRANS-1,3-DICHLOROPROPENE	0.435	0.437	0.439	0.443	0.451	0.480	0.490	0.483	0.477	0.464438	4.99
1,1,2-TRICHLOROETHANE	1.525	1.563	1.553	1.559	1.610	1.548	1.551	1.574	1.567	1.573326	2.23
TETRACHLOROETHENE	1.299	1.312	1.412	1.399	1.323	1.285	1.315	1.322	1.314	1.343089	3.51
1,3-Dichloropropane	3.058	3.036	2.780	2.725	2.871	2.689	2.663	2.667	2.722	2.788388	5.11
2-HEXANONE	0.727	0.689	0.704	0.730	0.832	0.791	0.875	0.889	0.917	0.826602	12.72
CHLORODIBROMOMETHANE	1.479	1.762	1.702	1.808	1.877	1.788	1.841	1.896	1.892	1.818577	7.86
1,2-DIBROMOETHANE	1.780	1.809	1.637	1.767	1.760	1.663	1.682	1.668	1.682	1.720374	3.38
CHLOROBENZENE	4.780	4.706	4.700	4.649	4.767	4.560	4.585	4.720	4.638	4.713279	2.23

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

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Tax I.D 62-0814289
Est. 1970

Test: Volatile Organic Compounds by Method 8260C
Project: Former Photech Imaging Site
Instrument ID: VOCMS25
Method Name : V825I15O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
1,1,1,2-TETRACHLOROETHANE	1.424	1.459	1.543	1.682	1.702	1.586	1.598	1.628	1.642	1.606815	6.10
ETHYLBENZENE	2.166	2.455	2.398	2.452	2.410	2.339	2.413	2.469	2.416	2.417292	4.21
M&P-XYLENE	3.290	2.975	3.101	3.049	3.094	2.950	3.021	3.034	3.022	3.080978	3.27
O-XYLENE	3.039	2.741	2.951	2.960	3.005	2.830	2.895	2.946	2.925	2.945795	3.40
STYRENE	4.741	4.908	4.554	4.666	4.892	4.697	4.936	5.005	4.887	4.873973	4.15
Bromoform	1.090	1.057	1.081	1.072	1.174	1.112	1.177	1.211	1.227	1.159967	7.14
Isopropylbenzene	7.321	7.656	7.482	7.502	7.515	7.438	7.581	7.570	7.391	7.574700	2.71
4-BROMOFLUOROBENZENE	2.492	2.553	2.544	2.578	2.553	2.470	2.435	2.514	2.528	2.512006	1.94
Bromobenzene	3.706	3.914	3.714	3.556	3.711	3.388	3.505	3.638	3.422	3.616714	4.15
1,1,2,2-TETRACHLOROETHANE	2.326	2.480	2.529	2.349	2.347	2.227	2.306	2.284	2.312	2.360564	3.93
1,2,3-TRICHLOROPROPANE		0.468	0.480	0.449	0.535	0.519	0.522	0.530	0.537	0.518020	7.96
TRANS-1,4-DICHLORO-2-BUTENE		0.740	0.506	0.536	0.558	0.562	0.587	0.601	0.580	0.593522	10.99
n-Propylbenzene	9.570	9.823	9.657	9.296	9.439	8.878	9.279	9.558	9.144	9.467634	3.12
4-ETHYLTOLUENE	7.948	8.005	7.675	7.556	7.780	7.440	7.539	7.800	7.473	7.749036	2.94
2-Chlorotoluene	1.660	1.996	1.912	1.823	1.922	1.775	1.767	1.832	1.804	1.842946	5.03
4-Chlorotoluene	5.599	5.965	5.611	5.523	5.530	5.409	5.427	5.409	5.470	5.573658	2.95
1,3,5-Trimethylbenzene	6.268	6.044	6.245	6.038	6.165	5.922	5.988	6.200	6.107	6.204331	3.90
tert-Butylbenzene	4.889	4.693	5.080	5.017	5.053	4.752	4.783	5.084	4.976	4.996985	4.20
1,2,4-Trimethylbenzene	6.976	6.311	6.175	6.319	6.156	5.878	6.041	6.180	6.023	6.270433	4.75
sec-Butylbenzene	8.224	7.781	7.871	8.247	8.195	7.946	8.030	8.135	7.882	8.147266	3.65
1,3-DICHLOROBENZENE	3.534	3.593	3.653	3.592	3.558	3.482	3.437	3.441	3.306	3.525402	2.92
p-Isopropyltoluene	6.294	6.676	6.556	6.267	6.489	6.345	6.582	6.391	6.319	6.541199	4.15
DICYCLOPENTADIENE	8.579	9.040	8.666	8.499	8.831	8.360	8.667	8.498	8.350	8.646979	2.55
1,4-DICHLOROBENZENE	1.703	1.565	1.523	1.406	1.386	1.371	1.356	1.331	1.323	1.428773	8.29
1,2,3-TRIMETHYLBENZENE	2.630	2.603	2.446	2.464	2.459	2.418	2.450	2.382	2.378	2.482864	3.51
1,2-DICHLOROBENZENE	1.343	1.402	1.327	1.267	1.272	1.269	1.253	1.261	1.248	1.290547	3.66
n-Butylbenzene	2.443	2.531	2.490	2.455	2.427	2.468	2.454	2.407	2.435	2.469417	1.79
1,2-Dibromo-3-chloropropane			0.127	0.144	0.130	0.135	0.150	0.141	0.156	0.145891	9.75
1,2,4-Trichlorobenzene	0.840	0.848	0.806	0.758	0.795	0.763	0.768	0.728	0.761	0.805236	7.49

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Test: Volatile Organic Compounds by Method 8260C
Project: Former Photech Imaging Site
Instrument ID: VOCMS25
Method Name : V825I15O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
HEXACHLORO-1,3-BUTADIENE	0.456	0.458	0.441	0.428	0.436	0.403	0.407	0.393	0.406	0.434420	7.13
Naphthalene	2.313	2.153	1.915	1.944	1.806	1.841	1.987	1.955	2.038	2.045296	8.86
1,2,3-Trichlorobenzene	0.851	0.796	0.744	0.713	0.718	0.714	0.715	0.678	0.706	0.751692	7.69
1-Methylnaphthalene	1.262	1.049	0.917	0.912	0.897	0.951	0.969	0.929	0.975	1.012387	11.78
2-Methylnaphthalene	1.042	0.891	0.798	0.772	0.775	0.763	0.792	0.771	0.778	0.838919	10.97
ETHANOL										0.004381	8.32
Bromoethane										0.402219	3.89
2-PROPANOL										0.000000	0.00
Methyl Acetate										0.399253	4.40
ACETONITRILE										0.064874	7.13
ALLYL CHLORIDE										0.233088	3.08
tert-BUTYL ALCOHOL										0.091829	6.14
chloroprene										0.727051	3.08
ETHYL TERT-BUTYL ETHER										1.482265	3.75
PROPIONITRILE										0.073275	3.57
Ethyl Acetate										0.537213	3.14
METHACRYLONITRILE										0.207296	3.58
Cyclohexane										1.203495	4.20
tert-butyl formate										0.327638	2.58
ISOBUTANOL										0.033421	5.69
t-Amyl Alcohol										0.043316	7.36
TERT-AMYL METHYL ETHER										1.608648	3.47
N-BUTANOL										0.009315	8.40
Methyl Cyclohexane										0.742567	17.10
2-nitropropane										0.090139	3.00
METHYL METHACRYLATE										0.312635	4.07
1,4-DIOXANE										0.002995	9.95
n-octane										0.239894	2.92
3,3-DIMETHYL-1-BUTANOL										0.041344	6.46

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Project: Former Photech Imaging Site
Instrument ID: VOCMS25
Method Name : V825I15O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
ETHYL METHACRYLATE										2.059357	8.13
CIS-1,4-DICHLORO-2-BUTENE										0.605857	4.69
Cyclohexanone										0.497525	4.97
PENTACHLOROETHANE										1.187876	4.07
Hexachloroethane										1.428580	7.02

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Test: Volatile Organic Compounds by Method 8260C
Project: Former Photech Imaging Site
Instrument ID: VOCMS30
Method Name : V830I04O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
TPH (GC/MS) LOW FRACTION	786	1233	1410	1408	1427	1410	1388			1294.561	18.08
PROPENE				0.154	0.118	0.108	0.100	0.096	0.096	0.108570	18.23
DICHLORODIFLUOROMETHANE	0.454	0.381	0.372	0.374	0.366	0.369	0.373	0.367	0.368	0.378186	6.77
CHLOROMETHANE		0.554	0.505	0.458	0.445	0.448	0.442	0.433	0.430	0.458694	8.70
VINYL CHLORIDE	0.412	0.422	0.470	0.451	0.465	0.465	0.471	0.467	0.463	0.455652	4.39
1,3-BUTADIENE		0.432	0.366	0.328	0.337	0.338	0.336	0.325	0.316	0.340120	10.71
BROMOMETHANE					0.249	0.210	0.186	0.177	0.175	0.192400	14.67
CHLOROETHANE					0.244	0.249	0.232	0.213	0.185	0.224588	11.67
TRICHLOROFLUOROMETHANE	0.519	0.503	0.553	0.512	0.520	0.550	0.528	0.529	0.507	0.515555	5.24
DICHLOROFLUOROMETHANE	0.756	0.744	0.730	0.676	0.672	0.682	0.668	0.661	0.663	0.685528	5.86
ETHYL ETHER	0.319	0.296	0.287	0.265	0.273	0.276	0.276	0.269	0.267	0.279066	5.75
ACROLEIN			0.060	0.056	0.057	0.055	0.054	0.051	0.052	0.054423	5.49
1,1-DICHLOROETHENE	0.496	0.516	0.528	0.513	0.533	0.548	0.543	0.529	0.521	0.523910	2.89
1,1,2-TRICHLOROTRIFLUOROETHANE	0.322	0.365	0.351	0.341	0.347	0.356	0.360	0.347	0.341	0.346362	3.46
ACETONE					0.173	0.155	0.140	0.134	0.135	0.142368	11.22
IODOMETHANE	0.554	0.506	0.456	0.448	0.446	0.464	0.454	0.437	0.427	0.455094	9.51
CARBON DISULFIDE	1.705	1.476	1.315	1.309	1.274	1.268	1.234	1.208	1.183	1.303020	12.20
METHYLENE CHLORIDE		0.511	0.464	0.399	0.397	0.381	0.377	0.367	0.366	0.399607	12.34
ACRYLONITRILE	0.110	0.100	0.110	0.106	0.106	0.105	0.106	0.101	0.103	0.105047	3.21
n-Hexane			0.415	0.396	0.371	0.355	0.343	0.328	0.326	0.353930	9.47
TRANS-1,2-DICHLOROETHENE	0.397	0.401	0.416	0.370	0.381	0.383	0.382	0.372	0.369	0.382819	4.09
METHYL TERT-BUTYL ETHER	0.931	0.920	0.982	0.951	0.956	0.958	0.946	0.896	0.893	0.930227	3.28
1,1-DICHLOROETHANE	0.643	0.636	0.638	0.662	0.655	0.656	0.652	0.636	0.636	0.644712	1.56
VINYL ACETATE	0.543	0.600	0.604	0.581	0.582	0.550	0.632	0.583	0.565	0.575110	5.17
DI-ISOPROPYL ETHER	1.137	1.150	1.156	1.142	1.160	1.169	1.154	1.124	1.112	1.139533	1.80
2,2-Dichloropropane	0.628	0.622	0.613	0.595	0.606	0.594	0.580	0.557	0.556	0.587725	4.77
CIS-1,2-DICHLOROETHENE	0.401	0.419	0.399	0.408	0.406	0.413	0.404	0.398	0.391	0.403528	1.91
2-BUTANONE (MEK)			0.222	0.188	0.186	0.174	0.165	0.157	0.163	0.175036	11.97

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project: Former Photech Imaging Site
Instrument ID: VOCMS30
Method Name : V830I04O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
BROMOCHLOROMETHANE	0.216	0.214	0.231	0.218	0.226	0.227	0.226	0.219	0.216	0.220647	2.60
TETRAHYDROFURAN					0.109	0.096	0.089	0.083	0.086	0.090432	10.28
CHLOROFORM	0.718	0.672	0.680	0.634	0.659	0.659	0.628	0.613	0.608	0.644267	5.68
DIBROMOFLUOROMETHANE	0.503	0.505	0.503	0.492	0.492	0.496	0.487	0.476	0.479	0.489293	2.44
1,1,1-TRICHLOROETHANE	0.527	0.546	0.547	0.528	0.532	0.542	0.529	0.519	0.514	0.528772	2.32
CARBON TETRACHLORIDE	0.426	0.543	0.440	0.528	0.509	0.527	0.529	0.510	0.512	0.506153	7.43
1,1-Dichloropropene	0.477	0.494	0.474	0.469	0.479	0.490	0.485	0.470	0.470	0.476720	1.98
2,2,4-TRIMETHYLPENTANE	0.474	0.443	0.386	0.391	0.396	0.394	0.385	0.367	0.368	0.393778	8.90
HEPTANE	0.593	0.544	0.601	0.609	0.582	0.595	0.624	0.587	0.598	0.593637	3.38
BENZENE	1.646	1.643	1.487	1.477	1.473	1.497	1.458	1.435	1.404	1.487869	5.58
1,2-DICHLOROETHANE	0.434	0.399	0.426	0.411	0.429	0.437	0.439	0.422	0.431	0.426338	2.77
TRICHLOROETHENE	0.223	0.215	0.232	0.237	0.228	0.236	0.229	0.222	0.221	0.226077	3.09
1,2-DICHLOROPROPANE	0.157	0.175	0.172	0.162	0.160	0.156	0.158	0.153	0.153	0.159170	4.98
DIBROMOMETHANE	0.128	0.131	0.127	0.117	0.135	0.129	0.128	0.124	0.125	0.126822	3.63
BROMODICHLOROMETHANE	0.327	0.362	0.328	0.306	0.296	0.297	0.286	0.283	0.278	0.301798	8.91
a,a,a-Trifluorotoluene	0.544	0.552	0.541	0.530	0.526	0.515	0.511	0.507	0.498	0.518753	4.18
2-CHLOROETHYL VINYL ETHER										0.000000	0.00
CIS-1,3-DICHLOROPROPENE	0.362	0.375	0.339	0.356	0.359	0.361	0.356	0.350	0.347	0.355193	2.68
4-METHYL-2-PENTANONE (MIBK)	0.176	0.175	0.193	0.168	0.177	0.172	0.170	0.159	0.161	0.169592	6.50
TOLUENE-D8	1.163	1.170	1.151	1.139	1.131	1.125	1.107	1.098	1.099	1.123765	2.63
TOLUENE		1.063	0.996	1.015	0.956	0.954	0.930	0.889	0.891	0.945124	6.84
TRANS-1,3-DICHLOROPROPENE	0.291	0.323	0.322	0.300	0.313	0.311	0.304	0.289	0.291	0.302584	4.29
1,1,2-TRICHLOROETHANE	1.566	1.151	1.212	1.169	1.190	1.202	1.183	1.141	1.132	1.202763	10.27
TETRACHLOROETHENE	1.033	1.206	1.192	1.204	1.179	1.186	1.141	1.104	1.072	1.131372	5.96
1,3-Dichloropropane	2.846	2.374	2.254	2.162	2.077	2.025	2.037	1.983	1.935	2.147513	12.54
2-HEXANONE	0.571	0.524	0.511	0.494	0.493	0.475	0.451	0.438	0.444	0.481466	8.69
CHLORODIBROMOMETHANE	1.295	1.261	1.322	1.326	1.329	1.316	1.326	1.302	1.307	1.315908	1.90
1,2-DIBROMOETHANE	1.314	1.192	1.261	1.243	1.208	1.220	1.225	1.203	1.202	1.227097	2.89
CHLOROBENZENE	3.666	4.124	4.099	4.053	4.058	3.996	3.951	3.816	3.724	3.901109	4.74

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Project: Former Photech Imaging Site
Instrument ID: VOCMS30
Method Name : V830I04O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
1,1,1,2-TETRACHLOROETHANE	1.327	1.315	1.277	1.295	1.300	1.282	1.263	1.223	1.206	1.267847	3.26
ETHYLBENZENE	2.327	2.275	2.204	2.289	2.291	2.285	2.218	2.164	2.106	2.216201	3.96
M&P-XYLENE	3.026	3.017	2.817	2.821	2.759	2.733	2.679	2.593	2.517	2.726932	6.97
O-XYLENE	2.797	2.858	2.673	2.675	2.663	2.676	2.595	2.588	2.547	2.650870	4.09
STYRENE	4.307	4.351	4.338	4.402	4.411	4.458	4.315	4.209	4.118	4.283503	3.26
Bromoform	0.712	0.690	0.794	0.787	0.807	0.795	0.796	0.782	0.786	0.780079	5.26
Isopropylbenzene	7.558	7.445	7.307	7.231	7.120	7.174	7.006	6.770	6.515	6.993891	6.08
4-BROMOFLUOROBENZENE	2.855	2.817	2.827	2.797	2.782	2.785	2.728	2.745	2.716	2.778103	1.59
Bromobenzene	3.430	3.055	3.035	3.126	2.963	2.945	2.909	2.790	2.743	2.954178	7.11
1,1,2,2-TETRACHLOROETHANE	1.710	1.667	1.595	1.599	1.567	1.504	1.523	1.455	1.452	1.544110	5.90
1,2,3-TRICHLOROPROPANE		0.434	0.415	0.409	0.390	0.395	0.382	0.372	0.370	0.392485	5.31
TRANS-1,4-DICHLORO-2-BUTENE		0.395	0.443	0.407	0.399	0.374	0.364	0.360	0.367	0.384911	6.72
n-Propylbenzene	8.309	8.543	8.491	8.496	8.446	8.498	8.311	8.146	7.828	8.224674	4.38
4-ETHYLTOLUENE	7.578	7.600	7.211	7.112	7.164	7.120	6.910	6.715	6.489	6.966719	6.53
2-Chlorotoluene	1.609	1.543	1.580	1.667	1.547	1.545	1.531	1.479	1.469	1.539525	4.15
4-Chlorotoluene	5.560	5.458	4.910	5.100	5.031	5.053	5.026	4.858	4.724	5.008936	5.98
1,3,5-Trimethylbenzene	5.673	6.127	6.189	6.025	5.906	5.875	5.689	5.521	5.259	5.697550	6.56
tert-Butylbenzene	4.823	4.804	4.715	4.956	4.867	4.857	4.820	4.638	4.455	4.703833	4.35
1,2,4-Trimethylbenzene	6.396	6.244	5.991	5.865	5.893	5.780	5.619	5.399	5.227	5.704733	7.63
sec-Butylbenzene	7.834	7.941	7.735	7.902	7.882	7.880	7.581	7.341	7.033	7.540401	5.80
1,3-DICHLOROBENZENE	3.033	3.104	3.159	3.154	3.154	3.124	3.070	3.010	2.923	3.041304	4.05
p-Isopropyltoluene	6.536	6.501	6.363	6.421	6.428	6.428	6.213	5.926	5.736	6.164728	6.09
DICYCLOPENTADIENE	6.040	6.040	7.063	6.738	6.882	6.947	6.745	6.413	6.241	6.492368	6.13
1,4-DICHLOROBENZENE	1.095	1.143	1.142	1.068	1.078	1.074	1.059	1.027	1.008	1.060704	5.34
1,2,3-TRIMETHYLBENZENE			3.093	2.532	2.208	2.083	2.029	1.938	1.880	2.160860	19.16
1,2-DICHLOROBENZENE	0.981	1.048	1.094	1.041	1.039	1.042	1.036	1.009	0.992	1.021456	3.82
n-Butylbenzene		2.681	2.447	2.252	2.190	2.237	2.185	2.112	2.028	2.205370	10.24
1,2-Dibromo-3-chloropropane		0.091	0.115	0.098	0.097	0.101	0.104	0.104	0.108	0.104070	7.30
1,2,4-Trichlorobenzene	0.552	0.631	0.671	0.664	0.676	0.688	0.685	0.668	0.635	0.646706	6.28

ESC LABORATORIES
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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

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Tax I.D 62-0814289
Est. 1970

Test: Volatile Organic Compounds by Method 8260C
Project: Former Photech Imaging Site
Instrument ID: VOCMS30
Method Name : V830I04O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
HEXACHLORO-1,3-BUTADIENE	0.309	0.365	0.357	0.352	0.360	0.355	0.333	0.338	0.325	0.341475	5.18
Naphthalene	1.543	1.482	1.490	1.426	1.463	1.495	1.528	1.499	1.492	1.489473	2.16
1,2,3-Trichlorobenzene	0.526	0.585	0.594	0.579	0.593	0.603	0.603	0.592	0.563	0.578804	4.10
1-Methylnaphthalene	0.515	0.505	0.483	0.527	0.550	0.566	0.591	0.597	0.602	0.561062	8.57
2-Methylnaphthalene	0.468	0.475	0.442	0.487	0.486	0.498	0.506	0.486	0.496	0.486049	3.95
ETHANOL										0.004234	9.19
Bromoethane										0.326079	2.19
2-PROPANOL										0.022726	13.68
Methyl Acetate										0.204529	2.22
ACETONITRILE										0.033858	2.65
ALLYL CHLORIDE										0.183350	2.49
tert-BUTYL ALCOHOL										0.061569	4.77
chloroprene										0.554645	2.27
ETHYL TERT-BUTYL ETHER										1.038207	1.75
PROPIONITRILE										0.038501	2.91
Ethyl Acetate										0.259177	3.20
METHACRYLONITRILE										0.121516	2.23
Cyclohexane										0.951894	3.56
tert-butyl formate										0.092314	3.97
ISOBUTANOL										0.016006	2.73
t-Amyl Alcohol										0.025969	6.03
TERT-AMYL METHYL ETHER										1.085946	4.12
N-BUTANOL										0.003861	11.22
Methyl Cyclohexane										0.628586	22.68
2-nitropropane										0.047009	3.67
METHYL METHACRYLATE										0.161422	1.56
1,4-DIOXANE										0.002435	15.25
n-octane										0.225715	4.05
3,3-DIMETHYL-1-BUTANOL										0.018967	10.62

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Test: Volatile Organic Compounds by Method 8260C
Project: Former Photech Imaging Site
Instrument ID: VOCMS30
Method Name : V830I04O.M

Relative Response Factor Summary

Compound Name	Level .25	Level .5	Level 1	Level 2	Level 5.0	Level 10	Level 25	Level 40	Level 75	Average RRF	%RSD
ETHYL METHACRYLATE										1.368333	2.74
CIS-1,4-DICHLORO-2-BUTENE										0.348203	2.61
Cyclohexanone										0.204764	8.58
PENTACHLOROETHANE										0.752843	8.13
Hexachloroethane										1.043409	3.74

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: VOCMS30

Method Name : V830I04O.M
FileName : 1019_02.D

Date : 10/19/2015
Time : 4:19 AM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Chloromethane	0.4587	0.3974	13.4	>0.1
Vinyl chloride	0.4557	0.3940	13.5	
Chloroethane	0.2246	0.1926	14.2	
1,1-Dichloroethene	0.5239	0.4476	14.6	
1,1-Dichloroethane	0.6447	0.5572	13.6	>0.1
Chloroform	0.6443	0.5380	16.5	
1,2-Dichloropropane	0.1592	0.1443	9.35	
Toluene	0.9451	0.9007	4.7	
Chlorobenzene	3.9011	4.2593	9.18	>0.3
Ethylbenzene	2.2162	2.3532	6.18	
Bromoform	0.7801	0.8247	5.72	>0.1
1,1,2,2-Tetrachloroethane	1.5441	1.5371	0.46	>0.3

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: VOCMS8

Method Name : V808J11O.M Date : 10/18/2015
FileName : 1018_33.D Time : 8:34 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D		
Dichlorodifluoromethane	0.3948	0.4316	9.31		
Chloromethane	0.7368	0.5147	30.1	>0.1	**
Vinyl chloride	0.5652	0.5847	3.44		
Bromomethane	0.1239	0.1408	13.7		
Trichlorofluoromethane	0.5189	0.5682	9.52		
1,1-Dichloroethene	0.3711	0.3616	2.56		
1,1,2-Trichlorotrifluoroethane	0.3741	0.3669	1.93		
Acetone	0.2631	0.2846	8.16		
Carbon disulfide	1.4001	1.3017	7.03		
Methylene Chloride	0.4145	0.4432	6.92		
trans-1,2-Dichloroethene	0.4260	0.4083	4.14		
Methyl tert-butyl ether	1.2309	1.1900	3.33		
1,1-Dichloroethane	0.7675	0.7440	3.05	>0.1	
cis-1,2-Dichloroethene	0.4493	0.4336	3.49		
2-Butanone (MEK)	0.3008	0.3362	11.7		
Bromochloromethane	0.2113	0.2264	7.17		
Chloroform	0.6759	0.6846	1.3		
1,1,1-Trichloroethane	0.5811	0.5883	1.24		
Carbon tetrachloride	0.4947	0.4988	0.84		
Benzene	1.8193	1.7677	2.84		
1,2-Dichloroethane	0.5320	0.5115	3.84		
Trichloroethene	0.2368	0.2224	6.09		
1,2-Dichloropropane	0.1785	0.1793	0.47		
Bromodichloromethane	0.2925	0.2821	3.56		
cis-1,3-Dichloropropene	0.3850	0.3842	0.2		
4-Methyl-2-pentanone (MIBK)	0.2328	0.2370	1.81		
Toluene	1.0771	1.0106	6.17		
trans-1,3-Dichloropropene	0.3320	0.3344	0.72		
1,1,2-Trichloroethane	1.1764	1.1552	1.8		
Tetrachloroethene	1.0330	0.9741	5.71		
2-Hexanone	0.7604	0.7611	0.09		

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: VOCMS8

Method Name : V808J11O.M Date : 10/18/2015
FileName : 1018_33.D Time : 8:34 PM

Continuing Calibration Verification

Compound Name	Average RRF	CCC RRF	%D	
Chlorodibromomethane	1.1858	1.0984	7.37	
1,2-Dibromoethane	1.1288	1.0978	2.74	
Chlorobenzene	3.6301	3.5975	0.9	>0.3
Ethylbenzene	2.1428	2.0994	2.02	
m&p-Xylene	2.6861	2.6134	2.71	
o-Xylene	2.5134	2.4204	3.7	
Styrene	4.0274	3.9121	2.86	
Bromoform	0.7264	0.6928	4.63	>0.1
Isopropylbenzene	6.6877	6.1792	7.6	
1,1,2,2-Tetrachloroethane	1.5910	1.6258	2.19	>0.3
1,3-Dichlorobenzene	2.6740	2.7134	1.47	
1,4-Dichlorobenzene	1.1443	1.1156	2.5	
1,2-Dichlorobenzene	1.0381	0.9963	4.02	
1,2-Dibromo-3-Chloropropane	0.1289	0.1161	9.96	
1,2,4-Trichlorobenzene	0.6224	0.6683	7.38	
1,2,3-Trichlorobenzene	0.6012	0.6376	6.07	

*** - calibrated by linear regression*

ICV Or CCV Summary Report

Instrument ID : VOCMS25 | Analysis Date : 10/16/15 1020 | ICal Method : 8260C
Lab File ID : 1016_02-1 | Quant Method : V825I15O | ICal Protocol : SW846

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	Avg. RF	RF	Min. RF	%Diff	Max. %D	% Rec	%Rec LL	%Rec HL
PROPENE		23997	0.025	0.04	443127	0.088783	0.08664604		2.41	20	115	80	120
DICHLORODIFLUOROMETHANE		132863	0.025	0.04	443127	0.520576	0.4797288	0.1	7.85	20	92.2		
CHLOROMETHANE		168934	0.025	0.04	443127	0.75628	0.6099705	0.1	19.3	20	80.7		
VINYL CHLORIDE		163483	0.025	0.04	443127	0.595768	0.5902885	0.1	0.92	20	99.1		
1,3-BUTADIENE		113439	0.025	0.04	443127	0.391926	0.4095945		4.51	20	105		
BROMOMETHANE		114664	0.025	0.04	443127	0.43924	0.4140176	0.1	5.74	20	94.3		
CHLOROETHANE		85346	0.025	0.04	443127	0.303617	0.3081591	0.1	1.5	20	101		
TRICHLOROFLUOROMETHANE		207726	0.025	0.04	443127	0.735035	0.7500368	0.1	2.04	20	102		
DICHLOROFLUOROMETHANE		265276	0.025	0.04	443127	0.926049	0.9578328		3.43	20	103		
ETHYL ETHER		101184	0.025	0.04	443127	0.346166	0.3653454		5.54	20	106		
ACROLEIN		93779	0.125	0.04	443127	0.059401	0.06772162		14	20	114		
1,1-DICHLOROETHENE		203405	0.025	0.04	443127	0.695883	0.734435	0.1	5.54	20	106		
1,1,2-TRICHLOROTRIFLUOROETHANE		113012	0.025	0.04	443127	0.421258	0.4080527	0.1	3.13	20	96.9		
ACETONE		404052	0.125	0.04	443127	0.244643	0.2917823	0.1	19.3	20	119		
IODOMETHANE		1146611	0.125	0.04	443127	0.928202	0.8280144		10.8	20	89.2		
CARBON DISULFIDE		401159	0.025	0.04	443127	1.642524	1.448466	0.1	11.8	20	88.2		
METHYLENE CHLORIDE		135748	0.025	0.04	443127	0.564212	0.4901457	0.1	13.1	20	86.9		
ACRYLONITRILE		241356	0.125	0.04	443127	0.188317	0.174293		7.45	20	92.6		
n-Hexane		115877	0.025	0.04	443127	0.478663	0.4183974		12.6	20	87.4		
TRANS-1,2-DICHLOROETHENE		123866	0.025	0.04	443127	0.512327	0.4472433	0.1	12.7	20	87.3		
METHYL TERT-BUTYL ETHER		348157	0.025	0.04	443127	1.309696	1.257091	0.1	4.02	20	96		
1,1-DICHLOROETHANE		256618	0.025	0.04	443127	1.001663	0.9265713	0.2	7.5	20	92.5		
VINYL ACETATE		1415313	0.125	0.04	443127	1.122988	1.022055		8.99	20	91		
DI-ISOPROPYL ETHER		499186	0.025	0.04	443127	1.892424	1.802412		4.76	20	95.2		
2,2-Dichloropropane		161627	0.025	0.04	443127	0.611741	0.5835871		4.6	20	95.4		
CIS-1,2-DICHLOROETHENE		141751	0.025	0.04	443127	0.565601	0.5118207	0.1	9.51	20	90.5		
2-BUTANONE (MEK)		474002	0.125	0.04	443127	0.352695	0.3422961	0.1	2.95	20	97.1		
BROMOCHLOROMETHANE		86633	0.025	0.04	443127	0.339313	0.312806		7.81	20	92.2		

ICV Or CCV Summary Report

Instrument ID : VOCMS25 | Analysis Date : 10/16/15 1020 | ICal Method : 8260C
Lab File ID : 1016_02-1 | Quant Method : V825I15O | ICal Protocol : SW846

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	Avg. RF	RF	Min. RF	%Diff	Max. %D	% Rec	%Rec LL	%Rec HL
TETRAHYDROFURAN		47883	0.025	0.04	443127	0.180011	0.1728913		3.96	20	96		
CHLOROFORM		252819	0.025	0.04	443127	0.950498	0.9128543	0.2	3.96	20	96		
1,1,1-TRICHLOROETHANE		194274	0.025	0.04	443127	0.725092	0.7014657	0.1	3.26	20	96.7		
CARBON TETRACHLORIDE		201519	0.025	0.04	443127	0.773771	0.7276253	0.1	5.96	20	94		
1,1-Dichloropropene		178163	0.025	0.04	443127	0.698326	0.6432936		7.88	20	92.1		
2,2,4-TRIMETHYLPENTANE		521484	0.025	0.04	443127	2.136814	1.882924		11.9	20	88.1		
HEPTANE		224349	0.025	0.04	443127	0.997805	0.8100576		18.8	20	81.2		
BENZENE		522250	0.025	0.04	443127	2.161054	1.88569	0.5	12.7	20	87.3		
1,2-DICHLOROETHANE		187429	0.025	0.04	443127	0.682999	0.6767504	0.1	0.915	20	99.1		
TRICHLOROETHENE		132059	0.025	0.04	733979	0.306217	0.2878753	0.2	5.99	20	94		
1,2-DICHLOROPROPANE		111166	0.025	0.04	733979	0.253658	0.2423306	0.1	4.47	20	95.5		
DIBROMOMETHANE		94378	0.025	0.04	733979	0.208749	0.2057345		1.44	20	98.6		
BROMODICHLOROMETHANE		199474	0.025	0.04	733979	0.428335	0.4348331	0.2	1.52	20	102		
2-CHLOROETHYL VINYL ETHER		379443	0.125	0.04	733979	0.172411	0.1654295		4.05	20	96		
CIS-1,3-DICHLOROPROPENE		236145	0.025	0.04	733979	0.52478	0.5147722	0.2	1.91	20	98.1		
4-METHYL-2-PENTANONE (MIBK)		805824	0.125	0.04	733979	0.35017	0.351323	0.1	0.329	20	100		
TOLUENE		538524	0.025	0.04	733979	1.309243	1.173928	0.4	10.3	20	89.7		
TRANS-1,3-DICHLOROPROPENE		230243	0.025	0.04	733979	0.464438	0.5019064	0.1	8.07	20	108		
1,1,2-TRICHLOROETHANE		119158	0.025	0.04	128097	1.573326	1.488347	0.1	5.4	20	94.6		
TETRACHLOROETHENE		101118	0.025	0.04	128097	1.343089	1.263018	0.2	5.96	20	94		
1,3-Dichloropropane		205161	0.025	0.04	128097	2.788388	2.56257		8.1	20	91.9		
2-HEXANONE		342795	0.125	0.04	128097	0.826602	0.8563386	0.1	3.6	20	104		
CHLORODIBROMOMETHANE		142000	0.025	0.04	128097	1.818577	1.773656	0.1	2.47	20	97.5		
1,2-DIBROMOETHANE		128094	0.025	0.04	128097	1.720374	1.599962	0.1	7	20	93		
CHLOROBENZENE		346219	0.025	0.04	128097	4.713279	4.32446	0.5	8.25	20	91.8		
1,1,1,2-TETRACHLOROETHANE		122014	0.025	0.04	128097	1.606815	1.52402		5.15	20	94.8		
ETHYLBENZENE		176846	0.025	0.04	128097	2.417292	2.208901	0.1	8.62	20	91.4		
M&P-XYLENE		444367	0.05	0.04	128097	3.080978	2.775191	0.1	9.92	20	90.1		

ICV Or CCV Summary Report

Instrument ID : VOCMS25 | Analysis Date : 10/16/15 1020 | ICal Method : 8260C
Lab File ID : 1016_02-1 | Quant Method : V825I15O | ICal Protocol : SW846

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	Avg. RF	RF	Min. RF	%Diff	Max. %D	% Rec	%Rec LL	%Rec HL
O-XYLENE		220415	0.025	0.04	128097	2.945795	2.753101	0.3	6.54	20	93.5		
STYRENE		372215	0.025	0.04	128097	4.873973	4.649164	0.3	4.61	20	95.4		
Bromoform		87513	0.025	0.04	128097	1.159967	1.093084	0.1	5.77	20	94.2		
Isopropylbenzene		567417	0.025	0.04	128097	7.5747	7.087341	0.1	6.43	20	93.6		
Bromobenzene		267438	0.025	0.04	128097	3.616714	3.340443		7.64	20	92.4		
1,1,2,2-TETRACHLOROETHANE		173584	0.025	0.04	128097	2.360564	2.168157	0.3	8.15	20	91.8		
1,2,3-TRICHLOROPROPANE		40249	0.025	0.04	128097	0.51802	0.5027315		2.95	20	97		
TRANS-1,4-DICHLORO-2-BUTENE		50517	0.025	0.04	128097	0.593522	0.6309843		6.31	20	106		
n-Propylbenzene		720123	0.025	0.04	128097	9.467634	8.99472		5	20	95		
4-ETHYLTOLUENE		577945	0.025	0.04	128097	7.749036	7.218842		6.84	20	93.2		
2-Chlorotoluene		132697	0.025	0.04	128097	1.842946	1.657456		10.1	20	89.9		
4-Chlorotoluene		429276	0.025	0.04	128097	5.573658	5.361887		3.8	20	96.2		
1,3,5-Trimethylbenzene		476020	0.025	0.04	128097	6.204331	5.945744		4.17	20	95.8		
tert-Butylbenzene		381422	0.025	0.04	128097	4.996985	4.764164		4.66	20	95.3		
1,2,4-Trimethylbenzene		475233	0.025	0.04	128097	6.270433	5.935914		5.33	20	94.7		
sec-Butylbenzene		617558	0.025	0.04	128097	8.147266	7.713629		5.32	20	94.7		
1,3-DICHLOROBENZENE		263917	0.025	0.04	128097	3.525402	3.296464	0.6	6.49	20	93.5		
p-Isopropyltoluene		503263	0.025	0.04	128097	6.541199	6.286023		3.9	20	96.1		
DICYCLOPENTADIENE		632811	0.025	0.04	128097	8.646979	7.904147		8.59	20	91.4		
1,4-DICHLOROBENZENE		270425	0.025	0.04	339532	1.428773	1.274342	0.5	10.8	20	89.2		
1,2,3-TRIMETHYLBENZENE		491446	0.025	0.04	339532	2.482864	2.315875		6.73	20	93.3		
1,2-DICHLOROBENZENE		255364	0.025	0.04	339532	1.290547	1.203369	0.4	6.76	20	93.2		
n-Butylbenzene		517125	0.025	0.04	339532	2.469417	2.436884		1.32	20	98.7		
1,2-Dibromo-3-chloropropane		28679	0.025	0.04	339532	0.145891	0.135146	0.05	7.37	20	92.6		
1,2,4-Trichlorobenzene		164906	0.025	0.04	339532	0.805236	0.7770978	0.2	3.49	20	96.5		
HEXACHLORO-1,3-BUTADIENE		87837	0.025	0.04	339532	0.43442	0.4139203		4.72	20	95.3		
Naphthalene		389870	0.025	0.04	339532	2.045296	1.837211		10.2	20	89.8		
1,2,3-Trichlorobenzene		143916	0.025	0.04	339532	0.751692	0.6781852		9.78	20	90.2		
1-Methylnaphthalene		179498	0.025	0.04	339532	1.012387	0.8458607		16.4	20	83.6		

ICV Or CCV Summary Report

Instrument ID : VOCMS25 | Analysis Date : 10/16/15 1020 | ICal Method : 8260C
Lab File ID : 1016_02-1 | Quant Method : V825I15O | ICal Protocol : SW846

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	Avg. RF	RF	Min. RF	%Diff	Max. %D	% Rec	%Rec LL	%Rec HL
2-Methylnaphthalene		145681	0.025	0.04	339532	0.838919	0.6865026		18.2	20	81.8		
ETHANOL		0		0.04	443127	0.004381	0		0	20			
Bromoethane		0		0.04	443127	0.402219	0		0	20			
2-PROPANOL		0		0.04	443127		0		0	20			
Methyl Acetate		216712		0.04	443127	0.399253	0		0	20			
ACETONITRILE		77391		0.04	443127	0.064874	0		0	20			
ALLYL CHLORIDE		0		0.04	443127	0.233088	0		0	20			
tert-BUTYL ALCOHOL		3049		0.04	443127	0.091829	0		0	20			
chloroprene		241356		0.04	443127	0.727051	0		0	20			
ETHYL TERT-BUTYL ETHER		4229		0.04	443127	1.482265	0		0	20			
PROPIONITRILE		1833		0.04	443127	0.073275	0		0	20			
Ethyl Acetate		10547		0.04	443127	0.537213	0		0	20			
METHACRYLONITRILE		1485		0.04	443127	0.207296	0		0	20			
Cyclohexane		0		0.04	443127	1.203495	0		0	20			
tert-butyl formate		1038		0.04	443127	0.327638	0		0	20			
ISOBUTANOL		8758		0.04	443127	0.033421	0		0	20			
t-Amyl Alcohol		7402		0.04	443127	0.043316	0		0	20			
TERT-AMYL METHYL ETHER		9610		0.04	443127	1.608648	0		0	20			
N-BUTANOL		0		0.04	733979	0.009315	0		0	20			
Methyl Cyclohexane		12473		0.04	733979	0.742567	0		0	20			
2-nitropropane		899		0.04	733979	0.090139	0		0	20			
METHYL METHACRYLATE		560		0.04	733979	0.312635	0		0	20			
1,4-DIOXANE		5194		0.04	733979	0.002995	0		0	20			
n-octane		4066		0.04	733979	0.239894	0		0	20			
3,3-DIMETHYL-1-BUTANOL		110986		0.04	733979	0.041344	0		0	20			
ETHYL METHACRYLATE		4553		0.04	128097	2.059357	0		0	20			
CIS-1,4-DICHLORO-2-BUTENE		1804		0.04	128097	0.605857	0		0	20			
Cyclohexanone		611		0.04	128097	0.497525	0		0	20			

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ICV Or CCV Summary Report

Instrument ID : VOCMS25
Lab File ID : 1016_02-1
Analysis Date : 10/16/15 1020
Quant Method : V825I15O
ICal Method : 8260C
ICal Protocol : SW846

Parameter	Col	Response	Std. Conc	IS Conc.	IS Resp.	Avg. RF	RF	Min. RF	%Diff	Max. %D	% Rec	%Rec LL	%Rec HL
PENTACHLOROETHANE		14088		0.04	128097	1.187876	0		0	20			
Hexachloroethane		995		0.04	128097	1.42858	0		0	20			

Surrogate Parameter	Spike Amt	Surr Result	Surr Rec.	Low Limit	High Limit	Qualifier
DIBROMOFLUOROMETHANE	0.04	0.03936949	98.4	79	121	
a,a,a-Trifluorotoluene	0.04	0.04255132	106	90	116	
TOLUENE-D8	0.04	0.04252294	106	90	115	
4-BROMOFLUOROBENZENE	0.04	0.04063777	102	80	120	

Parameter	IS Response	IS Low Limit	IS High Limit	IS RT	IS RT LL	IS RT HL	CCV %D	%D Limit
8260-PENTAFLUOROBENZENE	443127	186000	745000	3.77				
8260-1,4-DIFLUOROBENZENE	733979	331000	1320000	4.09				
8260-2-BROMO-1-CHLOROPROPANE	128097	57000	228000	5.23				
8260-1,4-DICHLOROBENZENE-D4	339532	147000	587000	7.63				
AP9-PENTAFLUOROBENZENE	443127	0	0	3.77				
AP9-1,4-DIFLUOROBENZENE	733979	0	0	4.09				
AP9-2-BROMO-1-CHLOROPROPANE	128097	0	0	5.23				
AP9-1,4-DICHLOROBENZENE-D4	339532	0	0	7.63				

Raw Data

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS25
Computer Name : XENAPP6
Released By : Chris Harbin
Date Released : 10/22/2015 8:37:15 AM
Run ID : 101615
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1016_01	INSTBLK	V825I15O						1	1	10/16/15 1002	"water IS/SURR15A20860"
2	1016_02	ICV VMS 25 PPB 15J15701	V825I15O						1	1	10/16/15 1020	"water IS/SURR15A20860"
2	1016_02-1	ICV VMS 25 PPB 15J15701	V825I15O						1	1	10/16/15 1020	"water IS/SURR15A20860"
3	1016_02T	ICV	V825I15O							1	10/16/15 1020	
4	1016_03	ICV AP9 10A 15H20824	V825I15O						1	1	10/16/15 1039	"water IS/SURR15A20860"
4	1016_03-1	ICV AP9 10A 15H20824	V825I15O						1	1	10/16/15 1039	"water IS/SURR15A20860"
5	1016_04	LCS	V825I15O	WG822246	V8260C	GW			1	1	10/16/15 1106	"water IS/SURR15A20860/spk15J11487 "
5	1016_04-2	LCS	V825I15O	WG822246	V8260AP9	GW	PIEGEO		1	1	10/16/15 1106	"water IS/SURR15A20860/spk15J11487 "
6	1016_05	LCSD	V825I15O	WG822246	V8260C	GW			1	1	10/16/15 1124	"water IS/SURR15A20860/spk15J11487 "
6	1016_05-2	LCSD	V825I15O	WG822246	V8260AP9	GW	PIEGEO		1	1	10/16/15 1124	"water IS/SURR15A20860/spk15J11487 "
7	1016_06	LCSAP9	V825I15O	WG822246					1	1	10/16/15 1142	"water IS/SURR15A20860/spk15H19752 "
8	1016_07	1	V825I15O						1	1	10/16/15 1200	"water IS/SURR15A20860"
9	1016_08	INSTBLK	V825I15O						1	1	10/16/15 1219	"water IS/SURR15A20860"
10	1016_09	BLANK	V825I15O	WG822246	V8260C	GW			1	1	10/16/15 1237	"water IS/SURR15A20860"
10	1016_09-2	BLANK	V825I15O	WG822246	V8260AP9	GW	PIEGEO		1	1	10/16/15 1237	"water IS/SURR15A20860"
11	1016_10	L793892-14	V825I15O	WG822246	V8260TCLC	GW	LABRNY	NY	1	1	10/16/15 1300	"water IS/SURR15A20860"
12	1016_11	L793892-16	V825I15O	WG822246	V8260TCLC	GW	LABRNY	NY	1	1	10/16/15 1318	"water IS/SURR15A20860"
13	1016_12	L793892-06	V825I15O	WG822246	V8260TCLC	GW	LABRNY	NY	1	1	10/16/15 1336	"water IS/SURR15A20860"
14	1016_13	MS	V825I15O	WG822246	V8260C	GW			1	1	10/16/15 1355	"water IS/SURR15A20860/spk15J11487 "
14	1016_13-2	MS	V825I15O	WG822246	V8260AP9	GW	PIEGEO		1	1	10/16/15 1355	"water IS/SURR15A20860/spk15J11487 "
15	1016_14	MSD	V825I15O	WG822246	V8260C	GW			1	1	10/16/15 1413	"water IS/SURR15A20860/spk15J11487 "
15	1016_14-2	MSD	V825I15O	WG822246	V8260AP9	GW	PIEGEO		1	1	10/16/15 1413	"water IS/SURR15A20860/spk15J11487 "

Environmental Science Corporation
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Injection Log

Instrument ID : VOCMS25
Computer Name : XENAPP6
Released By : Chris Harbin
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Run ID : 101615
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
16	1016_15	INSTBLK	V825I15O						1	1	10/16/15 1431	"water IS/SURR15A20860"
17	1016_16	L793865-03	V825I15O	WG822246	V8260TCLC	GW	LCSBNY	NY	50	50	10/16/15 1449	"water IS/SURR15A20860"
18	1016_17	L793892-01	V825I15O	WG822246	V8260TCLC	GW	LABRNY	NY	1	1	10/16/15 1508	"water IS/SURR15A20860"
19	1016_18	L793892-02	V825I15O	WG822246	V8260TCLC	GW	LABRNY	NY	1	1	10/16/15 1526	"water IS/SURR15A20860"
20	1016_19	L793892-03	V825I15O	WG822246	V8260TCLC	GW	LABRNY	NY	1	1	10/16/15 1544	"water IS/SURR15A20860"
21	1016_20	L793892-04	V825I15O	WG822246	V8260TCLC	GW	LABRNY	NY	1	1	10/16/15 1602	"water IS/SURR15A20860"
22	1016_21	L793892-05	V825I15O	WG822246	V8260TCLC	GW	LABRNY	NY	1	1	10/16/15 1621	"water IS/SURR15A20860"
23	1016_22	L793892-07	V825I15O	WG822246	V8260TCLC	GW	LABRNY	NY	1	1	10/16/15 1639	"water IS/SURR15A20860"
24	1016_23	L793892-08	V825I15O	WG822246	V8260TCLC	GW	LABRNY	NY	1	1	10/16/15 1657	"water IS/SURR15A20860"
25	1016_24	DNR L793892-09	V825I15O	WG822246					1	1	10/16/15 1715	"water IS/SURR15A20860"
26	1016_25	L793892-10	V825I15O	WG822246	V8260TCLC	GW	LABRNY	NY	1	1	10/16/15 1734	"water IS/SURR15A20860"
27	1016_26	L793892-11	V825I15O	WG822246	V8260TCLC	GW	LABRNY	NY	1	1	10/16/15 1752	"water IS/SURR15A20860"
28	1016_27	L793892-12	V825I15O	WG822246	V8260TCLC	GW	LABRNY	NY	1	1	10/16/15 1810	"water IS/SURR15A20860"
29	1016_28	L793892-13	V825I15O	WG822246	V8260TCLC	GW	LABRNY	NY	1	1	10/16/15 1828	"water IS/SURR15A20860"
30	1016_29	L793918-01	V825I15O	WG822246	V8260C	GW	ASHCREPOR	WA	1	1	10/16/15 1847	"water IS/SURR15A20860"
31	1016_30	L793918-02	V825I15O	WG822246	V8260C	GW	ASHCREPOR	WA	1	1	10/16/15 1905	"water IS/SURR15A20860"
32	1016_31	L793918-03	V825I15O	WG822246	V8260C	GW	ASHCREPOR	WA	1	1	10/16/15 1923	"water IS/SURR15A20860"
33	1016_32	L794430-01	V825I15O	WG822246	V8260AP9	GW	PIEGEO	NC	200	200	10/16/15 1942	"water IS/SURR15A20860"
34	1016_33	INSTBLK	V825I15O						1	1	10/16/15 2228	"water IS/SURR15A20860"
35	1016_33T	INSTBLK								1	10/16/15 2228	
36	1016_34	ICV VMS 25 PPB 15J16754	V825I15O						1	1	10/16/15 2246	"water IS/SURR15A20860"
36	1016_34-1	ICV VMS 25 PPB 15J16754	V825I15O						1	1	10/16/15 2246	"water IS/SURR15A20860"

Environmental Science Corporation
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Injection Log

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Run ID : 101615
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
36	1016_34-2	ICV VMS 25 PPB 15J16754	V825I15O						1	1	10/16/15 2246	"water IS/SURR15A20860"
37	1016_35	AP9CV 10A PPB 15H20824	V825I15O						1	1	10/16/15 2338	"water IS/SURR15A20860"
38	1016_36	LCS	V825I15O	WG821926	V624	WW			1	1	10/16/15 2356	"water IS/SURR15A20860/SPK15J16755"
38	1016_36-2	LCS	V825I15O	WG821926	V8260	GW	VERTEXBFL		1	1	10/16/15 2356	"water IS/SURR15A20860/SPK15J16755"
38	1016_36-3	LCS	V825I15O	WG821926	V8260LL	GW	BNSF1KEN		1	1	10/16/15 2356	"water IS/SURR15A20860/SPK15J16755"
39	1016_37	LCSD	V825I15O	WG821926	V624	WW			1	1	10/17/15 0015	"water IS/SURR15A20860/SPK15J16755"
39	1016_37-2	LCSD	V825I15O	WG821926	V8260	GW	VERTEXBFL		1	1	10/17/15 0015	"water IS/SURR15A20860/SPK15J16755"
39	1016_37-3	LCSD	V825I15O	WG821926	V8260LL	GW	BNSF1KEN		1	1	10/17/15 0015	"water IS/SURR15A20860/SPK15J16755"
40	1016_38	LCSAP9	V825I15O						1	1	10/17/15 0033	"water IS/SURR15A20860/SPK15H19752"
41	1016_39	1PPB	V825I15O						1	1	10/17/15 0051	"water IS/SURR15A20860"
42	1016_40	INSTBLK	V825I15O						1	1	10/17/15 0109	"water IS/SURR15A20860"
43	1016_41	BLANK	V825I15O	WG821926	V624	WW			1	1	10/17/15 0128	"water IS/SURR15A20860"
43	1016_41-2	BLANK	V825I15O	WG821926	V8260	GW	VERTEXBFL		1	1	10/17/15 0128	"water IS/SURR15A20860"
43	1016_41-3	BLANK	V825I15O	WG821926	V8260LL	GW	BNSF1KEN		1	1	10/17/15 0128	"water IS/SURR15A20860"
44	1016_42	MS	V825I15O	WG821926	V624	WW			1	1	10/17/15 0153	"water IS/SURR15A20860/SPK15J16755"
44	1016_42-2	MS	V825I15O	WG821926	V8260	GW	VERTEXBFL		1	1	10/17/15 0153	"water IS/SURR15A20860/SPK15J16755"
44	1016_42-3	MS	V825I15O	WG821926	V8260LL	GW	BNSF1KEN		1	1	10/17/15 0153	"water IS/SURR15A20860/SPK15J16755"
45	1016_43	MSD	V825I15O	WG821926	V624	WW			1	1	10/17/15 0211	"water IS/SURR15A20860/SPK15J16755"
45	1016_43-2	MSD	V825I15O	WG821926	V8260	GW	VERTEXBFL		1	1	10/17/15 0211	"water IS/SURR15A20860/SPK15J16755"
45	1016_43-3	MSD	V825I15O	WG821926	V8260LL	GW	BNSF1KEN		1	1	10/17/15 0211	"water IS/SURR15A20860/SPK15J16755"
46	1016_44	INSTBLK	V825I15O						1	1	10/17/15 0229	"water IS/SURR15A20860"
47	1016_45	L793791-27 (TB)	V825I15O	WG821926	V8260LL	GW	BNSF1KEN	MT	1	1	10/17/15 0248	"water IS/SURR15A20860"

Environmental Science Corporation
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Injection Log

Instrument ID : VOCMS25
Computer Name : XENAPP6
Released By : Chris Harbin
Date Released : 10/22/2015 8:37:16 AM
Run ID : 101615
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
48	1016_46	L793791-28 (TB)	V825I15O	WG821926	V8260LL	GW	BNSF1KEN	MT	1	1	10/17/15 0306	"water IS/SURR15A20860"
49	1016_47	L793791-29 (TB)	V825I15O	WG821926	V8260LL	GW	BNSF1KEN	MT	1	1	10/17/15 0324	"water IS/SURR15A20860"
50	1016_48	L793791-30 (TB)	V825I15O	WG821926	V8260LL	GW	BNSF1KEN	MT	1	1	10/17/15 0343	"water IS/SURR15A20860"
51	1016_49	L793791-48 (TB)	V825I15O	WG821926	V8260LL	GW	BNSF1KEN	MT	1	1	10/17/15 0401	"water IS/SURR15A20860"
52	1016_50	L793680-02	V825I15O	WG821926	V624	WW	MTEK	TN	1	1	10/17/15 0419	"water IS/SURR15A20860"
53	1016_51	L793689-01	V825I15O	WG821926	V8260	GW	VERTEXBFL	FL	1	1	10/17/15 0438	"water IS/SURR15A20860"
54	1016_52	L793791-12	V825I15O	WG821926	V8260LL	GW	BNSF1KEN	MT	1	1	10/17/15 0456	"water IS/SURR15A20860"
55	1016_53	L793791-13	V825I15O	WG821926	V8260LL	GW	BNSF1KEN	MT	1	1	10/17/15 0514	"water IS/SURR15A20860"
56	1016_54	L793791-14	V825I15O	WG821926	V8260LL	GW	BNSF1KEN	MT	1	1	10/17/15 0533	"water IS/SURR15A20860"
57	1016_55	L793791-16	V825I15O	WG821926	V8260LL	GW	BNSF1KEN	MT	1	1	10/17/15 0551	"water IS/SURR15A20860"
58	1016_56	L793791-17	V825I15O	WG821926	V8260LL	GW	BNSF1KEN	MT	1	1	10/17/15 0609	"water IS/SURR15A20860"
59	1016_57	L793791-18	V825I15O	WG821926	V8260LL	GW	BNSF1KEN	MT	1	1	10/17/15 0627	"water IS/SURR15A20860"
60	1016_58	L793791-19	V825I15O	WG821926	V8260LL	GW	BNSF1KEN	MT	1	1	10/17/15 0646	"water IS/SURR15A20860"
61	1016_59	L793791-22	V825I15O	WG821926	V8260LL	GW	BNSF1KEN	MT	1	1	10/17/15 0704	"water IS/SURR15A20860"
62	1016_60	L793791-23	V825I15O	WG821926	V8260LL	GW	BNSF1KEN	MT	1	1	10/17/15 0722	"water IS/SURR15A20860"
63	1016_61	L793791-24	V825I15O	WG821926	V8260LL	GW	BNSF1KEN	MT	1	1	10/17/15 0741	"water IS/SURR15A20860"
64	1016_62	L793791-26	V825I15O	WG821926	V8260LL	GW	BNSF1KEN	MT	1	1	10/17/15 0759	"water IS/SURR15A20860"
65	1016_63	L793791-45	V825I15O	WG821926	V8260LL	GW	BNSF1KEN	MT	1	1	10/17/15 0817	"water IS/SURR15A20860"
66	1016_64	L793791-47	V825I15O	WG821926	V8260LL	GW	BNSF1KEN	MT	1	1	10/17/15 0836	"water IS/SURR15A20860"

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 02.D
Acq On : 16 Oct 2015 10:20 am
Operator : 189
Sample : ICV VMS 25 ppb 15J15701
Misc : water IS/SURR15A20860
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 16 10:50:28 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	3.772	168	443127	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	733979	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.228	79	128097	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.627	152	339532	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.772	168	443127	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.087	114	733979	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.228	79	128097	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.627	152	339532	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.530	111	262810	39.3694868	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 98.42%			
46) a,a,a-Trifluorotoluene	4.456	146	402763	42.5513153	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 106.38%			
50) TOLUENE-D8	4.910	98	912360	42.5229418	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 106.31%			
68) 4-BROMOFLUOROBENZENE	6.781	95	326911	40.6377691	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 101.59%			
Target Compounds						Qvalue
3) PROPENE	1.354	41	23997	28.6474748	ppb	93
4) DICHLORODIFLUOROMETHANE	1.392	85	132863	23.0383672	ppb	97
5) CHLOROMETHANE	1.521	50	168934	20.1635235	ppb	100
6) VINYL CHLORIDE	1.588	62	163483	24.7700668	ppb	99
7) 1,3-BUTADIENE	1.595	39	113439	26.1270055	ppb	96
8) BROMOMETHANE	1.801	94	114664	23.5644265	ppb	98
9) CHLOROETHANE	1.881	64	85346	25.3739948	ppb	98
10) TRICHLOROFLUOROMETHANE	1.958	101	207726	25.5102515	ppb	99
11) DICHLOROFLUOROMETHANE	1.997	67	265276	25.8580426	ppb	100
12) ETHYL ETHER	2.129	59	101184	26.3851081	ppb	99
13) ACROLEIN	2.434	56	93779	142.5083765	ppb	96
14) 1,1-DICHLOROETHENE	2.254	61	203405	26.3850099	ppb	95
15) 1,1,2-TRICHLOROTRIFLUO...	2.293	101	113012	24.2163230	ppb	96
16) ACETONE	2.592	43	404052	149.0856967	ppb	94
17) IODOMETHANE	2.341	142	1146611	111.5078571	ppb	97
18) CARBON DISULFIDE	2.283	76	401159	22.0463406	ppb	98
19) METHYLENE CHLORIDE	2.576	84	135748	21.7181508	ppb	99
20) ACRYLONITRILE	3.013	53	241356	115.6910301	ppb	97
21) n-Hexane	2.714	56	115877	21.8523970	ppb	95
22) TRANS-1,2-DICHLOROETHENE	2.669	96	123866	21.8240944	ppb	97
23) METHYL TERT-BUTYL ETHER	2.720	73	348157	23.9958667	ppb	94
24) 1,1-DICHLOROETHANE	3.000	63	256618	23.1258255	ppb	98
25) VINYL ACETATE	3.116	43	1415313	113.7651771	ppb	99
26) DI-ISOPROPYL ETHER	2.920	45	499186	23.8108979	ppb	97
27) 2,2-Dichloropropane	3.354	77	161627	23.8494211	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.293	96	141751	22.6228724	ppb	98
29) 2-BUTANONE (MEK)	3.585	43	474002	121.3143505	ppb	99
30) BROMOCHLOROMETHANE	3.402	130	86633	23.0469911	ppb	97
31) TETRAHYDROFURAN	3.527	42	47883	24.0112332	ppb	98
32) CHLOROFORM	3.431	83	252819	24.0098983	ppb	99
34) 1,1,1-TRICHLOROETHANE	3.563	97	194274	24.1854140	ppb	99
35) CARBON TETRACHLORIDE	3.530	117	201519	23.5090678	ppb	100
36) 1,1-Dichloropropene	3.627	75	178163	23.0298456	ppb	98

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 02.D
Acq On : 16 Oct 2015 10:20 am
Operator : 189
Sample : ICV VMS 25 ppb 15J15701
Misc : water IS/SURR15A20860
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 16 10:50:28 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	3.682	57	521484	22.0295707	ppb		98
38)	HEPTANE	3.730	43	224349	20.2959957	ppb		97
39)	BENZENE	3.762	78	522250	21.8144649	ppb		99
40)	1,2-DICHLOROETHANE	3.865	62	187429	24.7712725	ppb		97
42)	TRICHLOROETHENE	4.087	130	132059	23.5025590	ppb		99
43)	1,2-DICHLOROPROPANE	4.383	62	111166	23.8836273	ppb		97
44)	DIBROMOMETHANE	4.328	93	94378	24.6390038	ppb		99
45)	BROMODICHLOROMETHANE	4.411	83	199474	25.3792700	ppb		99
47)	2-CHLOROETHYL VINYL ETHER	4.730	63	379443	119.9386334	ppb		100
48)	CIS-1,3-DICHLOROPROPENE	4.788	75	236145	24.5232405	ppb		100
49)	4-METHYL-2-PENTANONE (...	5.151	43	805824	125.4117033	ppb		100
51)	TOLUENE	4.942	91	538524	22.4161559	ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.186	75	230243	27.0168877	ppb		98
54)	1,1,2-TRICHLOROETHANE	5.292	97	119158	23.6496984	ppb		99
55)	TETRACHLOROETHENE	5.199	164	101118	23.5095753	ppb		99
56)	1,3-Dichloropropane	5.476	76	205161	22.9753795	ppb		98
57)	2-HEXANONE	5.698	58	342795	129.4968132	ppb		96
58)	CHLORODIBROMOMETHANE	5.418	129	142000	24.3824705	ppb		99
59)	1,2-DIBROMOETHANE	5.585	107	128094	23.2502074	ppb		99
60)	CHLOROBENZENE	5.936	112	346219	22.9376414	ppb		100
61)	1,1,1,2-TETRACHLOROETHANE	5.971	133	122014	23.7118224	ppb	#	99
62)	ETHYLBENZENE	5.945	106	176846	22.8447879	ppb		97
63)	M&P-XYLENE	6.042	106	444367	45.0374917	ppb		98
64)	O-XYLENE	6.347	106	220415	23.3646685	ppb		98
65)	STYRENE	6.382	104	372215	23.8468920	ppb		99
66)	Bromoform	6.408	173	87513	23.5585137	ppb		99
67)	Isopropylbenzene	6.569	105	567417	23.3914935	ppb		99
69)	Bromobenzene	6.865	77	267438	23.0903184	ppb		100
70)	1,1,2,2-TETRACHLOROETHANE	6.913	83	173584	22.9622799	ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.019	110	40249	24.2621492	ppb		100
72)	TRANS-1,4-DICHLORO-2-B...	7.045	53	50517	26.5779771	ppb		93
73)	n-Propylbenzene	6.874	91	720123	23.7512389	ppb		99
74)	4-ETHYLTOLUENE	6.955	105	577945	23.2894837	ppb		99
75)	2-Chlorotoluene	6.997	126	132697	22.4837953	ppb		89
76)	4-Chlorotoluene	7.119	91	429276	24.0501258	ppb		98
77)	1,3,5-Trimethylbenzene	7.016	105	476020	23.9580391	ppb		98
78)	tert-Butylbenzene	7.260	119	381422	23.8351936	ppb		98
79)	1,2,4-Trimethylbenzene	7.312	105	475233	23.6662854	ppb		99
80)	sec-Butylbenzene	7.398	105	617558	23.6693811	ppb		100
81)	1,3-DICHLOROBENZENE	7.572	146	263917	23.3765172	ppb		100
82)	p-Isopropyltoluene	7.505	119	503263	24.0247389	ppb		99
83)	DICYCLOPENTADIENE	7.498	66	632811	22.8523396	ppb		99
85)	1,4-DICHLOROBENZENE	7.640	146	270425	22.2978398	ppb		92
86)	1,2,3-TRIMETHYLBENZENE	7.652	105	491446	23.3185814	ppb		99
87)	1,2-DICHLOROBENZENE	7.971	146	255364	23.3112305	ppb		99
88)	n-Butylbenzene	7.836	91	517125	24.6706347	ppb		99
89)	1,2-Dibromo-3-chloropr...	8.604	157	28679	23.1587969	ppb		95
90)	1,2,4-Trichlorobenzene	9.170	180	164906	24.1263869	ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.151	225	87837	23.8202696	ppb		98
92)	Naphthalene	9.437	128	389870	22.4565452	ppb		100
93)	1,2,3-Trichlorobenzene	9.595	180	143916	22.5552887	ppb		99
94)	1-Methylnaphthalene	10.318	142	179498	20.8877798	ppb		99
95)	2-Methylnaphthalene	10.443	142	145681	20.4579581	ppb		99
100)	Methyl Acetate	2.717	43	216712	48.9966606	ppb	#	75

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 02.D
Acq On : 16 Oct 2015 10:20 am
Operator : 189
Sample : ICV VMS 25 ppb 15J15701
Misc : water IS/SURR15A20860
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS25

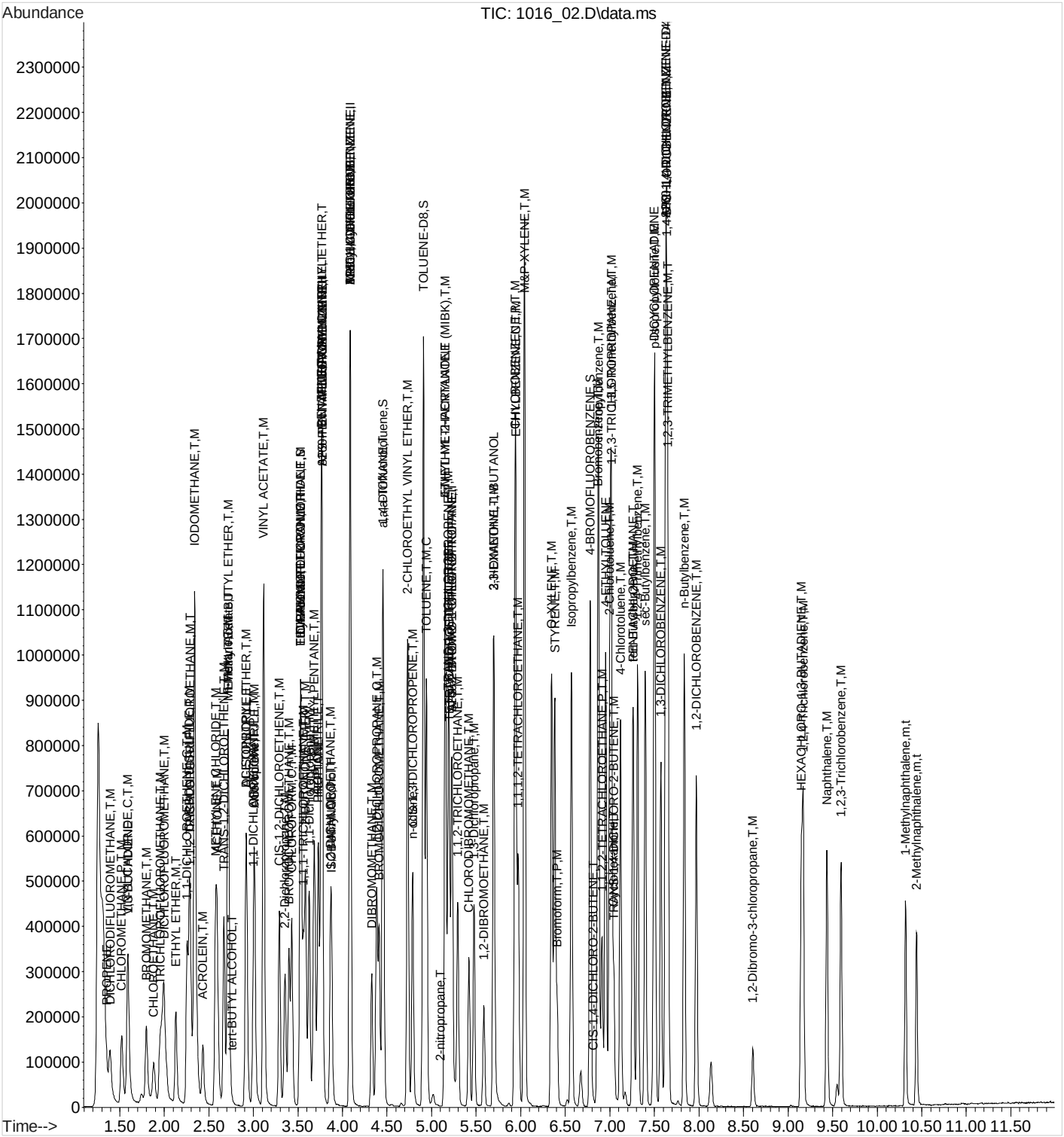
Quant Time: Oct 16 10:50:28 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
101) ACETONITRILE	2.920	41	77391	107.6840420	ppb	#	37
103) tert-BUTYL ALCOHOL	2.762	59	3049	2.9971593	ppb	#	65
104) chloroprene	3.013	53	241356	29.9657506	ppb	#	23
106) PROPIONITRILE	3.727	54	1833	2.2580856	ppb	#	1
107) Ethyl Acetate	3.527	43	10547	1.7722061	ppb	#	71
108) METHACRYLONITRILE	3.768	67	1485	0.6466460	ppb	#	1
111) ISOBUTANOL	3.878	43	8758	23.6547617	ppb	#	1
112) t-Amyl Alcohol	3.874	59	7402	15.4251964	ppb	#	41
113) TERT-AMYL METHYL ETHER	3.765	73	9610	0.5392550	ppb	#	1
116) Methyl Cyclohexane	4.087	83	12473	0.3871427	ppb	#	45
117) 2-nitropropane	5.100	43	899	0.5435312	ppb	#	17
119) 1,4-DIOXANE	4.453	88	5194	94.5156479	ppb	#	16
120) n-octane	4.791	85	4066	0.9236876	ppb	#	22
121) 3,3-DIMETHYL-1-BUTANOL	5.698	57	110986	146.2947826	ppb	#	40
123) ETHYL METHACRYLATE	5.154	69	4553	0.6903783	ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	6.813	53	1804	0.9297948	ppb	#	16
125) Cyclohexanone	7.038	55	611	0.3834844	ppb	#	22
126) PENTACHLOROETHANE	7.260	117	14088	3.7033872	ppb	#	13

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

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 02.D
Acq On : 16 Oct 2015 10:20 am
Operator : 189
Sample : ICV VMS 25 ppb 15J15701
Misc : water IS/SURR15A20860
ALS Vial : 2 Sample Multiplier: 1
InstName : VOCMS25

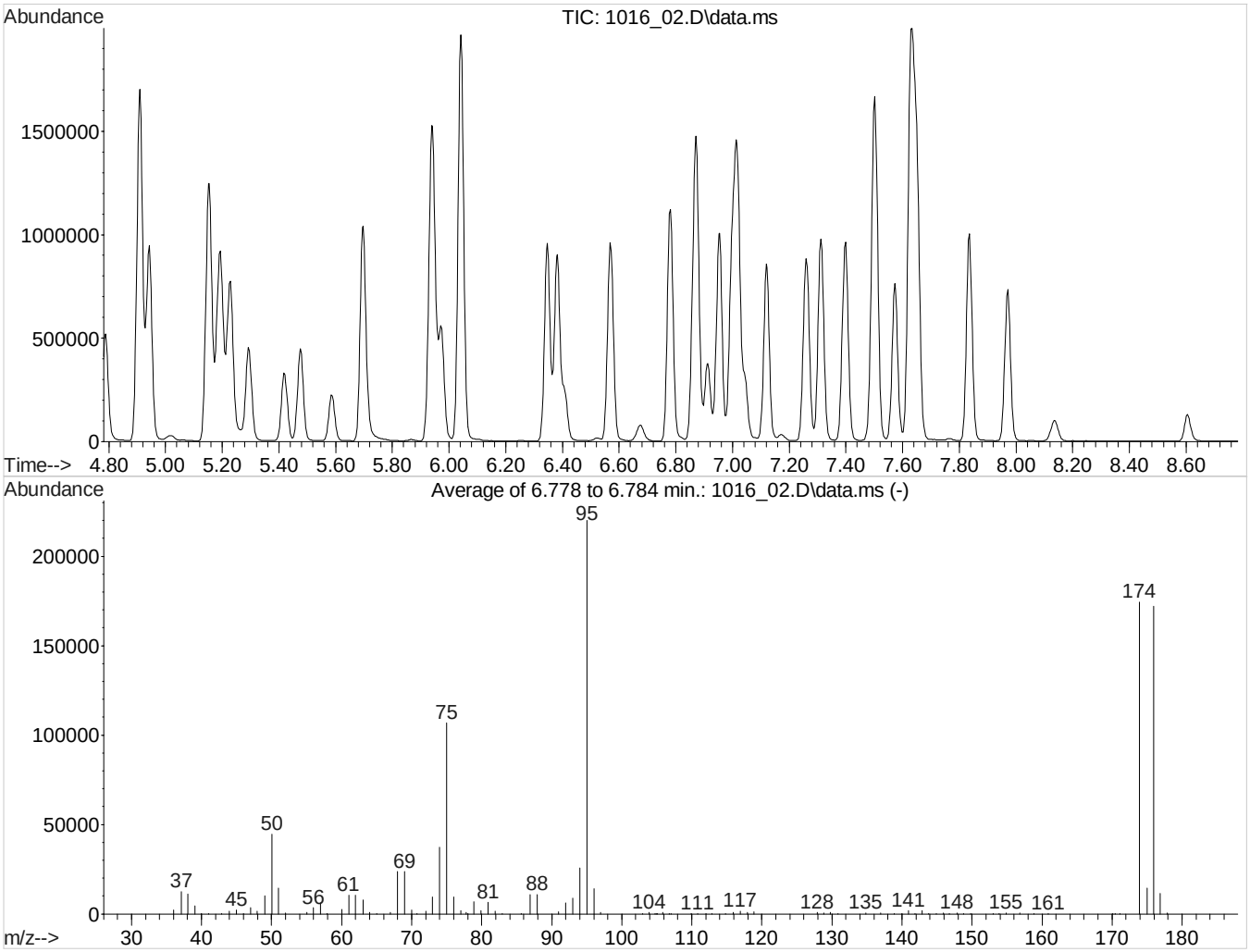
Quant Time: Oct 16 10:50:28 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\101615\
Data File : 1016 02.D
Acq On : 16 Oct 2015 10:20 am
Operator : 189
Sample : ICV
Misc : water IS/SURR15A20860
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V825I15O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
Last Update : Wed Sep 16 15:00:05 2015



AutoFind: Scans 1769, 1770, 1771; Background Corrected with Scan 1756

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.2	44515	PASS
75	95	30	60	48.5	106880	PASS
95	95	100	100	100.0	220181	PASS
96	95	5	9	6.4	14115	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	79.2	174485	PASS
175	174	5	9	8.3	14415	PASS
176	174	95	101	98.5	171947	PASS
177	176	5	9	6.7	11444	PASS

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 04.D
Acq On : 16 Oct 2015 11:06 am
Operator : 189
Sample : LCS 1x WG822246
Misc : water IS/SURR15A20860/spk15J11487
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 16 11:53:49 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	3.771	168	443101	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	715439	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.228	79	122137	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.627	152	337627	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.771	168	443101	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.087	114	715439	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.228	79	122137	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.627	152	337627	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.530	111	257040	38.5073881	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 96.27%			
46) a,a,a-Trifluorotoluene	4.453	146	388334	42.0900908	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 105.23%			
50) TOLUENE-D8	4.910	98	902635	43.1598830	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 107.90%			
68) 4-BROMOFLUOROBENZENE	6.781	95	312523	40.7449715	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 101.86%			
Target Compounds						Qvalue
3) PROPENE	1.357	41	20682	24.2863973	ppb	95
4) DICHLORODIFLUOROMETHANE	1.392	85	156575	27.1516073	ppb	98
5) CHLOROMETHANE	1.524	50	193576	23.1060843	ppb	100
6) VINYL CHLORIDE	1.588	62	192445	29.1599445	ppb	99
7) 1,3-BUTADIENE	1.591	39	137998	31.7852420	ppb	98
8) BROMOMETHANE	1.797	94	134724	27.6885516	ppb	99
9) CHLOROETHANE	1.878	64	97028	28.8488321	ppb	97
10) TRICHLOROFLUOROMETHANE	1.958	101	236545	29.0511372	ppb	100
11) DICHLOROFLUOROMETHANE	1.993	67	296760	28.9286743	ppb	99
12) ETHYL ETHER	2.132	59	109370	28.5213928	ppb	98
13) ACROLEIN	2.434	56	87554	133.0565535	ppb	96
14) 1,1-DICHLOROETHENE	2.257	61	239003	31.0044815	ppb	94
15) 1,1,2-TRICHLOROTRIFLUO...	2.289	101	135112	28.9536317	ppb	97
16) ACETONE	2.591	43	481728	177.7567458	ppb	94
17) IODOMETHANE	2.341	142	1337627	130.0917857	ppb	97
18) CARBON DISULFIDE	2.283	76	523406	28.7663097	ppb	98
19) METHYLENE CHLORIDE	2.575	84	154774	24.7635494	ppb	97
20) ACRYLONITRILE	3.013	53	253121	121.3375575	ppb	99
21) n-Hexane	2.714	56	141863	26.7544767	ppb	93
22) TRANS-1,2-DICHLOROETHENE	2.672	96	143634	25.3085262	ppb	97
23) METHYL TERT-BUTYL ETHER	2.720	73	384483	26.5011020	ppb	98
24) 1,1-DICHLOROETHANE	3.000	63	286617	25.8307822	ppb	98
25) VINYL ACETATE	3.116	43	1572842	126.4350346	ppb	99
26) DI-ISOPROPYL ETHER	2.919	45	545977	26.0443310	ppb	97
27) 2,2-Dichloropropane	3.353	77	184294	27.1957230	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.292	96	156342	24.9529997	ppb	99
29) 2-BUTANONE (MEK)	3.585	43	534203	136.7299983	ppb	99
30) BROMOCHLOROMETHANE	3.398	130	96912	25.7830280	ppb	97
31) TETRAHYDROFURAN	3.524	42	48794	24.4694957	ppb	96
32) CHLOROFORM	3.431	83	277070	26.3145288	ppb	99
34) 1,1,1-TRICHLOROETHANE	3.562	97	219238	27.2948151	ppb	98
35) CARBON TETRACHLORIDE	3.530	117	233866	27.2842474	ppb	99
36) 1,1-Dichloropropene	3.627	75	203223	26.2707124	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 04.D
Acq On : 16 Oct 2015 11:06 am
Operator : 189
Sample : LCS 1x WG822246
Misc : water IS/SURR15A20860/spk15J11487
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 16 11:53:49 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	3.681	57	627691	26.5177353 ppb		98
38)	HEPTANE	3.730	43	282344	25.5440803 ppb		98
39)	BENZENE	3.762	78	581804	24.3034709 ppb		98
40)	1,2-DICHLOROETHANE	3.865	62	205502	27.1614571 ppb		98
42)	TRICHLOROETHENE	4.087	130	147294	26.8932462 ppb		99
43)	1,2-DICHLOROPROPANE	4.382	62	120955	26.6601849 ppb		98
44)	DIBROMOMETHANE	4.328	93	99714	26.7066574 ppb		100
45)	BROMODICHLOROMETHANE	4.411	83	218244	28.4869639 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	4.730	63	450377	146.0494003 ppb		99
48)	CIS-1,3-DICHLOROPROPENE	4.788	75	257254	27.4076793 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.151	43	816578	130.3786763 ppb		99
51)	TOLUENE	4.942	91	595590	25.4339901 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.186	75	239923	28.8823010 ppb		99
54)	1,1,2-TRICHLOROETHANE	5.292	97	126250	26.2800084 ppb		99
55)	TETRACHLOROETHENE	5.196	164	111874	27.2795492 ppb		97
56)	1,3-Dichloropropane	5.476	76	216889	25.4739988 ppb		100
57)	2-HEXANONE	5.694	58	388734	154.0170638 ppb		98
58)	CHLORODIBROMOMETHANE	5.418	129	153365	27.6189607 ppb		99
59)	1,2-DIBROMOETHANE	5.585	107	135178	25.7333170 ppb		100
60)	CHLOROBENZENE	5.935	112	386110	26.8287613 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	5.971	133	136791	27.8807533 ppb	#	98
62)	ETHYLBENZENE	5.945	106	203482	27.5682753 ppb		96
63)	M&P-XYLENE	6.041	106	509830	54.1937861 ppb		99
64)	O-XYLENE	6.347	106	242871	27.0013731 ppb		99
65)	STYRENE	6.379	104	419278	28.1729094 ppb		99
66)	Bromoform	6.408	173	94715	26.7415016 ppb		100
67)	Isopropylbenzene	6.569	105	654508	28.2984259 ppb		99
69)	Bromobenzene	6.865	77	283346	25.6575747 ppb		100
70)	1,1,2,2-TETRACHLOROETHANE	6.910	83	183760	25.4945885 ppb		97
71)	1,2,3-TRICHLOROPROPANE	7.019	110	42255	26.7143118 ppb		99
72)	TRANS-1,4-DICHLORO-2-B...	7.045	53	52778	29.1225239 ppb	#	83
73)	n-Propylbenzene	6.874	91	790432	27.3423482 ppb		99
74)	4-ETHYLTOLUENE	6.951	105	643107	27.1799277 ppb		99
75)	2-Chlorotoluene	6.996	126	148674	26.4201485 ppb		88
76)	4-Chlorotoluene	7.119	91	466063	27.3852734 ppb		99
77)	1,3,5-Trimethylbenzene	7.016	105	523021	27.6081246 ppb		98
78)	tert-Butylbenzene	7.260	119	432431	28.3414115 ppb		99
79)	1,2,4-Trimethylbenzene	7.312	105	535711	27.9798757 ppb		99
80)	sec-Butylbenzene	7.398	105	690282	27.7477267 ppb		99
81)	1,3-DICHLOROBENZENE	7.572	146	291501	27.0797219 ppb		98
82)	p-Isopropyltoluene	7.504	119	568270	28.4518240 ppb		99
83)	DICYCLOPENTADIENE	7.498	66	698267	26.4466019 ppb		100
85)	1,4-DICHLOROBENZENE	7.639	146	298013	24.7112494 ppb		97
86)	1,2,3-TRIMETHYLBENZENE	7.652	105	534744	25.5161875 ppb		99
87)	1,2-DICHLOROBENZENE	7.971	146	272528	25.0184383 ppb		98
88)	n-Butylbenzene	7.836	91	586220	28.1247688 ppb		99
89)	1,2-Dibromo-3-chloropr...	8.604	157	28539	23.1757759 ppb		90
90)	1,2,4-Trichlorobenzene	9.170	180	179459	26.4036895 ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.151	225	97196	26.5070326 ppb		99
92)	Naphthalene	9.437	128	415965	24.0948073 ppb		99
93)	1,2,3-Trichlorobenzene	9.594	180	161971	25.5281954 ppb		99
94)	1-Methylnaphthalene	10.318	142	197752	23.1417977 ppb		98
95)	2-Methylnaphthalene	10.443	142	156781	22.1409547 ppb		98
100)	Methyl Acetate	2.717	43	259744	58.7292599 ppb	#	73

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 04.D
Acq On : 16 Oct 2015 11:06 am
Operator : 189
Sample : LCS 1x WG822246
Misc : water IS/SURR15A20860/spk15J11487
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 16 11:53:49 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
101) ACETONITRILE	2.839	41	1539	2.1415341	ppb	#	79
103) tert-BUTYL ALCOHOL	2.755	59	4424	4.3490360	ppb	#	65
104) chloroprene	3.013	53	253121	31.4282877	ppb	#	23
106) PROPIONITRILE	3.723	54	3285	4.0470520	ppb	#	1
108) METHACRYLONITRILE	3.768	67	2730	1.1888534	ppb	#	1
111) ISOBUTANOL	3.878	43	8049	21.7410766	ppb	#	1
112) t-Amyl Alcohol	3.878	59	6514	13.5754695	ppb	#	40
115) N-BUTANOL	4.234	56	870	5.2216726	ppb	#	55
116) Methyl Cyclohexane	4.087	83	11923	0.3667027	ppb	#	50
117) 2-nitropropane	5.151	43	816578	506.4930662	ppb	#	40
119) 1,4-DIOXANE	4.453	88	4937	92.1670997	ppb	#	16
120) n-octane	4.788	85	4161	0.9697650	ppb	#	21
121) 3,3-DIMETHYL-1-BUTANOL	5.694	57	125626	169.8834976	ppb	#	40
123) ETHYL METHACRYLATE	5.148	69	4968	0.7900649	ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	6.813	53	2101	1.1357123	ppb	#	18
125) Cyclohexanone	7.054	55	1501	0.9880499	ppb	#	74
126) PENTACHLOROETHANE	7.260	117	16242	4.4779681	ppb	#	13

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

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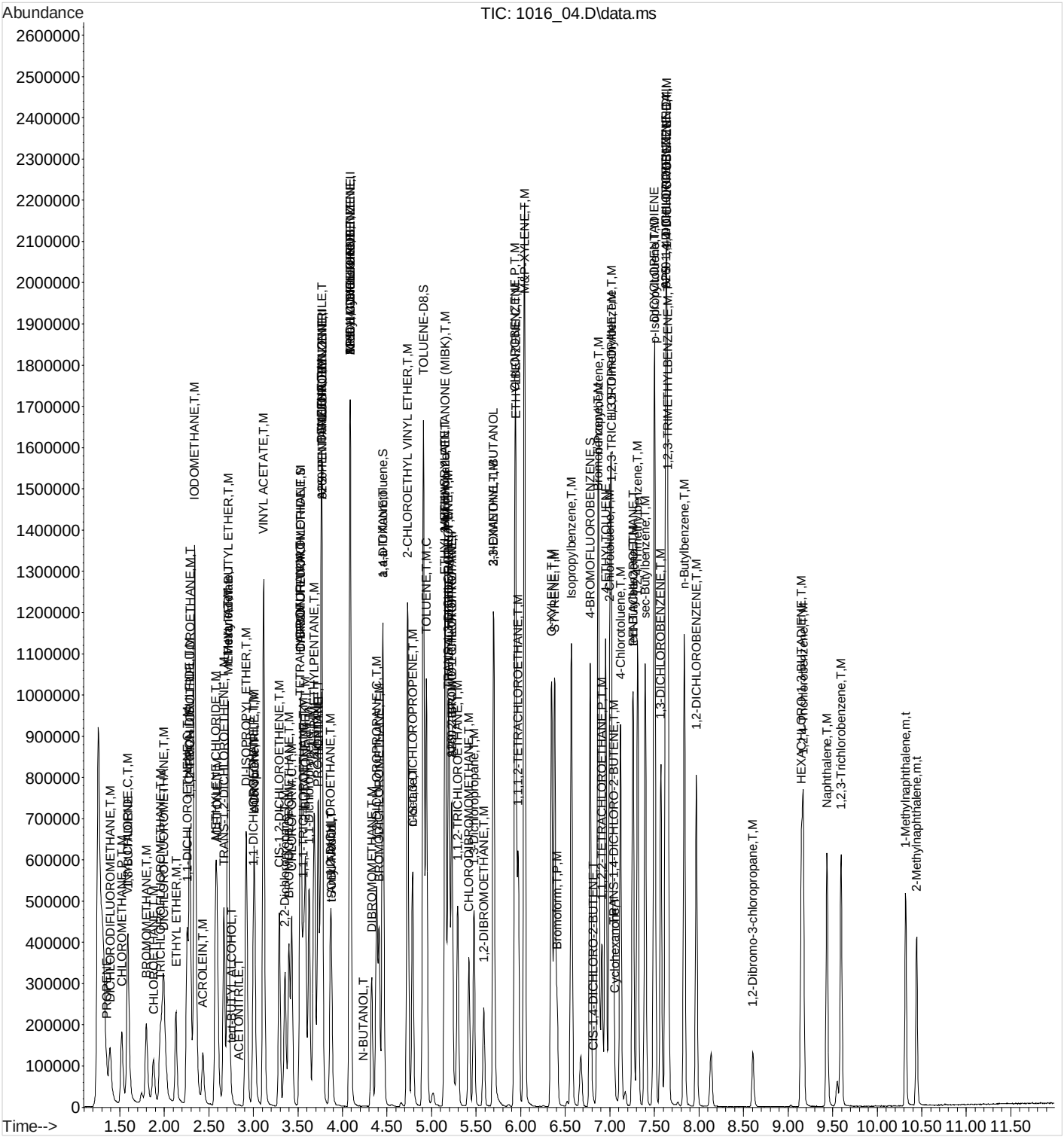

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 05.D
Acq On : 16 Oct 2015 11:24 am
Operator : 189
Sample : LCSD 1x WG822246
Misc : water IS/SURR15A20860/spk15J11487
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 16 11:54:07 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	3.772	168	459341	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	771390	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.228	79	130830	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.627	152	337301	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.772	168	459341	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.087	114	771390	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.228	79	130830	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.627	152	337301	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.531	111	273924	39.5859392	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 98.96%			
46) a,a,a-Trifluorotoluene	4.457	146	409132	41.1278968	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.82%			
50) TOLUENE-D8	4.910	98	922329	40.9027548	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.26%			
68) 4-BROMOFLUOROBENZENE	6.781	95	336026	40.8982592	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 102.25%			
Target Compounds						Qvalue
3) PROPENE	1.360	41	19561	21.9008296	ppb	97
4) DICHLORODIFLUOROMETHANE	1.396	85	153377	25.6567050	ppb	98
5) CHLOROMETHANE	1.524	50	197945	22.7922341	ppb	100
6) VINYL CHLORIDE	1.592	62	191140	27.9382476	ppb	100
7) 1,3-BUTADIENE	1.598	39	139173	30.9225456	ppb	98
8) BROMOMETHANE	1.804	94	131713	26.1126790	ppb	98
9) CHLOROETHANE	1.884	64	95613	27.4230415	ppb	97
10) TRICHLOROFLUOROMETHANE	1.961	101	232815	27.5821325	ppb	99
11) DICHLOROFLUOROMETHANE	1.997	67	290928	27.3574875	ppb	100
12) ETHYL ETHER	2.132	59	109392	27.5185533	ppb	96
13) ACROLEIN	2.437	56	91299	133.8424313	ppb	96
14) 1,1-DICHLOROETHENE	2.257	61	235609	29.4836003	ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.296	101	137303	28.3828935	ppb	96
16) ACETONE	2.595	43	535212	190.5099056	ppb	92
17) IODOMETHANE	2.344	142	1322199	124.0449795	ppb	96
18) CARBON DISULFIDE	2.286	76	518442	27.4861019	ppb	97
19) METHYLENE CHLORIDE	2.579	84	156022	24.0806522	ppb	96
20) ACRYLONITRILE	3.016	53	271884	125.7240145	ppb	99
21) n-Hexane	2.717	56	142427	25.9111786	ppb	92
22) TRANS-1,2-DICHLOROETHENE	2.672	96	147049	24.9941973	ppb	99
23) METHYL TERT-BUTYL ETHER	2.723	73	380969	25.3305108	ppb	97
24) 1,1-DICHLOROETHANE	3.003	63	288583	25.0884525	ppb	99
25) VINYL ACETATE	3.116	43	1625453	126.0446072	ppb	99
26) DI-ISOPROPYL ETHER	2.923	45	537566	24.7364954	ppb	97
27) 2,2-Dichloropropane	3.357	77	183958	26.1863887	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.293	96	158048	24.3334463	ppb	98
29) 2-BUTANONE (MEK)	3.585	43	571921	141.2085677	ppb	100
30) BROMOCHLOROMETHANE	3.402	130	96886	24.8647964	ppb	98
31) TETRAHYDROFURAN	3.531	42	52971	25.6250244	ppb	96
32) CHLOROFORM	3.431	83	280693	25.7161052	ppb	100
34) 1,1,1-TRICHLOROETHANE	3.563	97	225364	27.0655207	ppb	98
35) CARBON TETRACHLORIDE	3.531	117	233981	26.3325551	ppb	100
36) 1,1-Dichloropropene	3.627	75	204378	25.4859400	ppb	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 05.D
Acq On : 16 Oct 2015 11:24 am
Operator : 189
Sample : LCSD 1x WG822246
Misc : water IS/SURR15A20860/spk15J11487
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 16 11:54:07 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	3.685	57	620609	25.2915891	ppb		97
38)	HEPTANE	3.730	43	290088	25.3168104	ppb		98
39)	BENZENE	3.762	78	573870	23.1245154	ppb		99
40)	1,2-DICHLOROETHANE	3.868	62	205024	26.1402197	ppb		97
42)	TRICHLOROETHENE	4.087	130	152802	25.8753252	ppb		99
43)	1,2-DICHLOROPROPANE	4.383	62	120898	24.7147973	ppb		99
44)	DIBROMOMETHANE	4.328	93	101201	25.1389311	ppb		99
45)	BROMODICHLOROMETHANE	4.412	83	213872	25.8914510	ppb		99
47)	2-CHLOROETHYL VINYL ETHER	4.730	63	468492	140.9043367	ppb		99
48)	CIS-1,3-DICHLOROPROPENE	4.788	75	264171	26.1032074	ppb		100
49)	4-METHYL-2-PENTANONE (...	5.154	43	849596	125.8113891	ppb		99
51)	TOLUENE	4.942	91	608104	24.0848289	ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.186	75	237543	26.5216628	ppb		99
54)	1,1,2-TRICHLOROETHANE	5.293	97	130530	25.3655543	ppb		99
55)	TETRACHLOROETHENE	5.199	164	113581	25.8555404	ppb		97
56)	1,3-Dichloropropane	5.476	76	223236	24.4773127	ppb		100
57)	2-HEXANONE	5.698	58	407079	150.5687755	ppb		97
58)	CHLORODIBROMOMETHANE	5.418	129	156480	26.3075145	ppb		98
59)	1,2-DIBROMOETHANE	5.585	107	139332	24.7617043	ppb		99
60)	CHLOROBENZENE	5.936	112	389010	25.2342409	ppb		100
61)	1,1,1,2-TETRACHLOROETHANE	5.971	133	135297	25.7439423	ppb	#	97
62)	ETHYLBENZENE	5.945	106	203229	25.7045016	ppb		96
63)	M&P-XYLENE	6.042	106	519745	51.5767928	ppb		99
64)	O-XYLENE	6.347	106	246118	25.5442686	ppb		98
65)	STYRENE	6.382	104	424169	26.6077687	ppb		99
66)	Bromoform	6.408	173	95987	25.2999318	ppb		99
67)	Isopropylbenzene	6.569	105	635537	25.6524037	ppb		99
69)	Bromobenzene	6.865	77	295560	24.9852720	ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	6.913	83	188532	24.4186700	ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.019	110	44244	26.1132048	ppb		99
72)	TRANS-1,4-DICHLORO-2-B...	7.045	53	54522	28.0858626	ppb		95
73)	n-Propylbenzene	6.874	91	816018	26.3518398	ppb		100
74)	4-ETHYLTOLUENE	6.952	105	632035	24.9371085	ppb		99
75)	2-Chlorotoluene	6.997	126	151934	25.2054878	ppb		88
76)	4-Chlorotoluene	7.119	91	454195	24.9146454	ppb		99
77)	1,3,5-Trimethylbenzene	7.016	105	541026	26.6609625	ppb		98
78)	tert-Butylbenzene	7.260	119	430734	26.3544354	ppb		99
79)	1,2,4-Trimethylbenzene	7.312	105	527584	25.7244881	ppb		100
80)	sec-Butylbenzene	7.399	105	707949	26.5670137	ppb		100
81)	1,3-DICHLOROBENZENE	7.572	146	291319	25.2646257	ppb		99
82)	p-Isopropyltoluene	7.505	119	561842	26.2608932	ppb		99
83)	DICYCLOPENTADIENE	7.498	66	676009	23.9023579	ppb		100
85)	1,4-DICHLOROBENZENE	7.640	146	286071	23.7439445	ppb		98
86)	1,2,3-TRIMETHYLBENZENE	7.653	105	532041	25.4117460	ppb		99
87)	1,2-DICHLOROBENZENE	7.971	146	286948	26.3676734	ppb		99
88)	n-Butylbenzene	7.836	91	585033	28.0949482	ppb		99
89)	1,2-Dibromo-3-chloropr...	8.604	157	31886	25.9188134	ppb		95
90)	1,2,4-Trichlorobenzene	9.170	180	182167	26.8280199	ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.151	225	95433	26.0513862	ppb		99
92)	Naphthalene	9.437	128	446039	25.8618175	ppb		98
93)	1,2,3-Trichlorobenzene	9.595	180	158640	25.0273631	ppb		99
94)	1-Methylnaphthalene	10.318	142	208933	24.4738780	ppb		98
95)	2-Methylnaphthalene	10.443	142	167143	23.6271124	ppb		100
100)	Methyl Acetate	2.717	43	258563	56.3952986	ppb	#	73

Quantitation Report (QT Reviewed)

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Data File : 1016 05.D
Acq On : 16 Oct 2015 11:24 am
Operator : 189
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Misc : water IS/SURR15A20860/spk15J11487
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 16 11:54:07 2015
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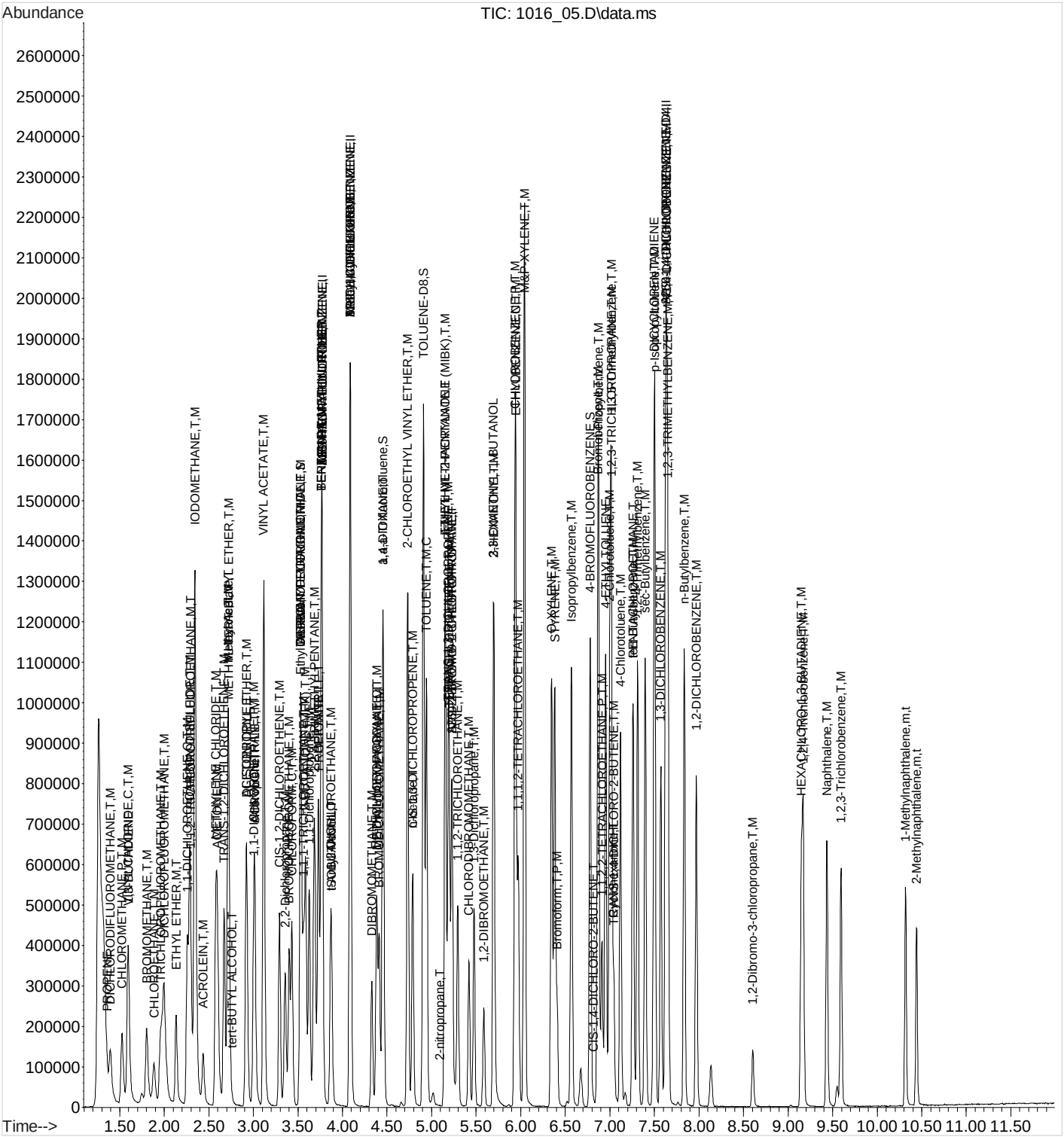
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
101) ACETONITRILE	2.923	41	84309	113.1690915 ppb	#	36
103) tert-BUTYL ALCOHOL	2.762	59	3808	3.6111235 ppb	#	65
104) chloroprene	3.016	53	271884	32.5644473 ppb	#	23
106) PROPIONITRILE	3.733	54	1848	2.1962051 ppb	#	1
107) Ethyl Acetate	3.527	43	9586	1.5538737 ppb	#	71
108) METHACRYLONITRILE	3.772	67	1626	0.6830519 ppb	#	1
111) ISOBUTANOL	3.878	43	8635	22.4992986 ppb	#	1
112) t-Amyl Alcohol	3.878	59	6662	13.3930426 ppb	#	43
113) TERT-AMYL METHYL ETHER	3.762	73	10482	0.5674243 ppb	#	1
116) Methyl Cyclohexane	4.087	83	13134	0.3891801 ppb	#	47
117) 2-nitropropane	5.093	43	608	0.3497663 ppb	#	17
118) METHYL METHACRYLATE	4.383	41	91095	15.1092539 ppb	#	21
119) 1,4-DIOXANE	4.457	88	5614	97.2039265 ppb	#	28
120) n-octane	4.788	85	4113	0.8890498 ppb	#	20
121) 3,3-DIMETHYL-1-BUTANOL	5.694	57	131243	164.6062865 ppb	#	40
123) ETHYL METHACRYLATE	5.154	69	5138	0.7628079 ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	6.817	53	2044	1.0314854 ppb	#	19
125) Cyclohexanone	7.042	55	1186	0.7288242 ppb	#	22
126) PENTACHLOROETHANE	7.260	117	15814	4.0702692 ppb	#	13

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

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 05.D
Acq On : 16 Oct 2015 11:24 am
Operator : 189
Sample : LCSD 1x WG822246
Misc : water IS/SURR15A20860/spk15J11487
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 16 11:54:07 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 09.D
Acq On : 16 Oct 2015 12:37 pm
Operator : 189
Sample : BLANK 1x WG822246
Misc : water IS/SURR15A20860
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS25

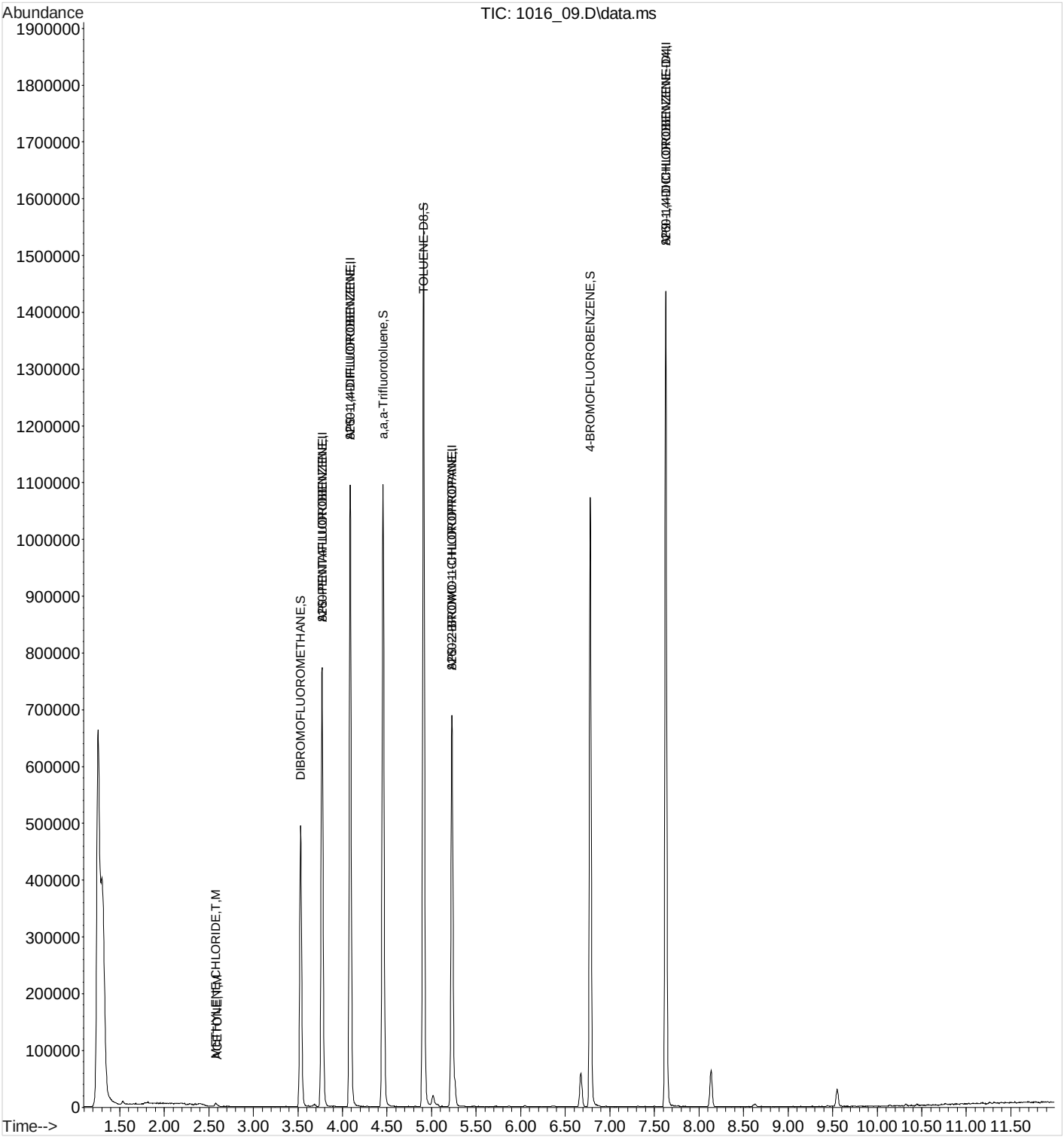
Quant Time: Oct 17 10:09:06 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

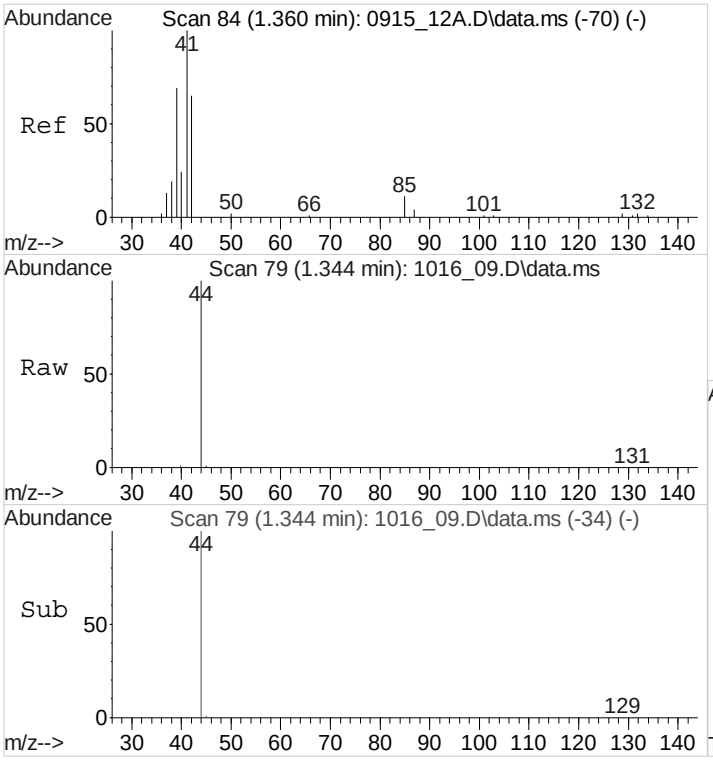
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	3.772	168	413361	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	681950	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.228	79	116131	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.627	152	319987	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.772	168	413361	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.087	114	681950	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.228	79	116131	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.627	152	319987	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.531	111	246878	39.6459630	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 99.11%			
46) a,a,a-Trifluorotoluene	4.457	146	368904	41.9476743	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.87%			
50) TOLUENE-D8	4.910	98	850205	42.6492915	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 106.62%			
68) 4-BROMOFLUOROBENZENE	6.781	95	309381	42.4213764	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 106.05%			
Target Compounds						Qvalue
3) PROPENE	1.344	41	544	Below Cal	#	54
16) ACETONE	2.595	43	2030	0.8029592	ppb	# 43
19) METHYLENE CHLORIDE	2.576	84	1890	0.3241529	ppb	91

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

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 09.D
Acq On : 16 Oct 2015 12:37 pm
Operator : 189
Sample : BLANK 1x WG822246
Misc : water IS/SURR15A20860
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:09:06 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

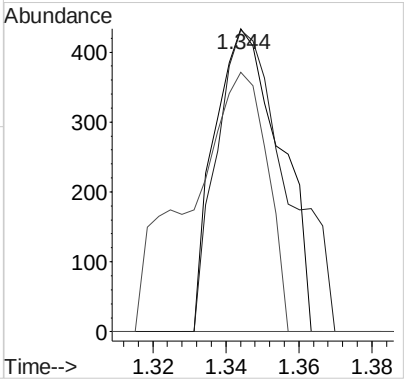


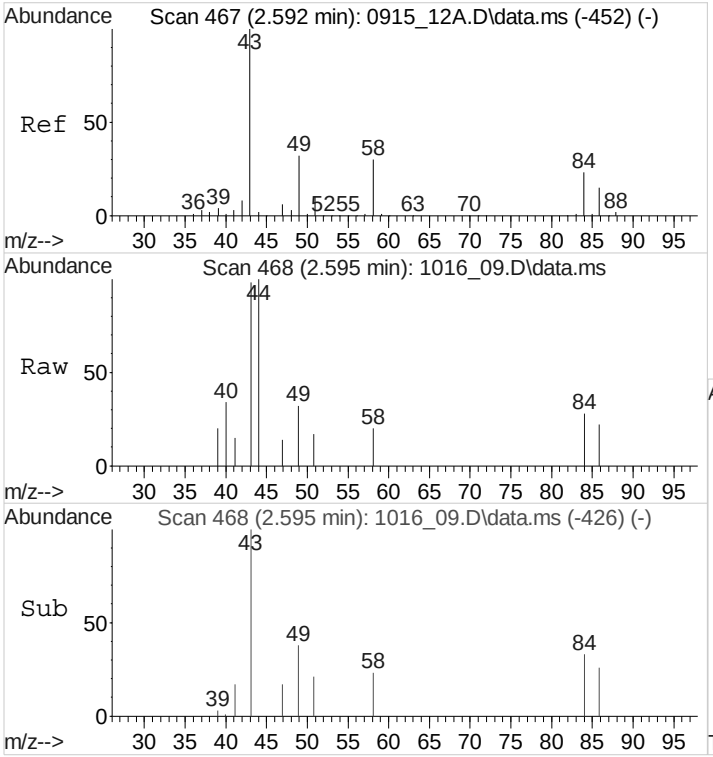


#3
PROPENE
Concen: Below Cal
RT: 1.344 min Scan# 79
Delta R.T. -0.006 min
Lab File: 1016 09.D
Acq: 16 Oct 2015 12:37 pm

Tgt Ion: 41 Resp: 544

Ion	Ratio	Lower	Upper
41	100		
39	105.5	55.2	82.8#
42	100.6	51.4	77.2#

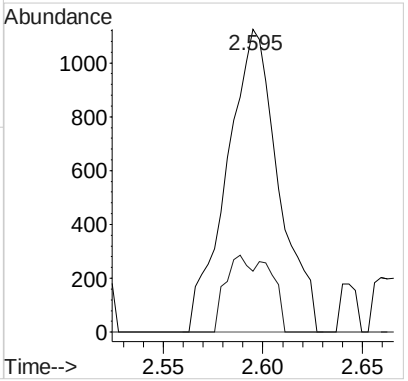


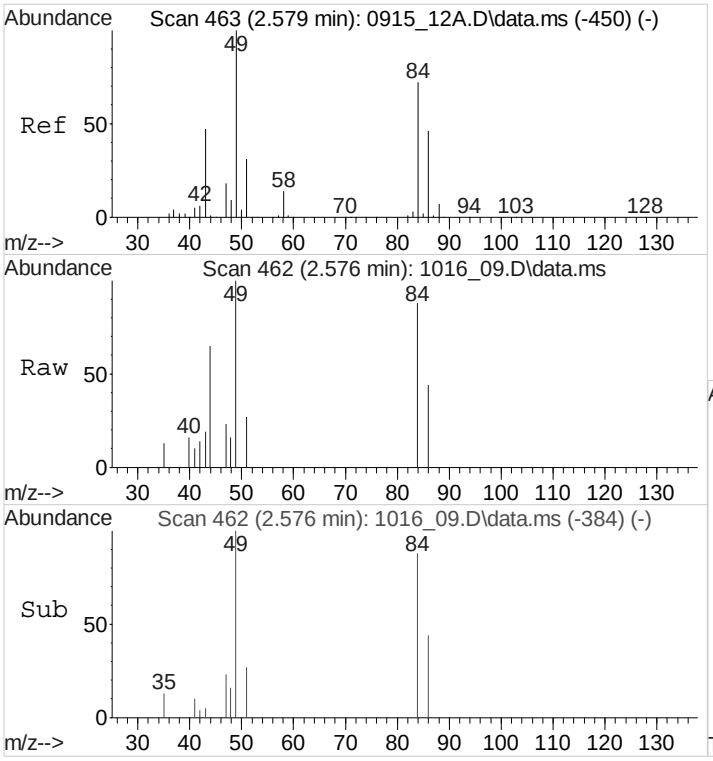


#16
ACETONE
Concen: 0.8029592 ppb
RT: 2.595 min Scan# 468
Delta R.T. 0.004 min
Lab File: 1016_09.D
Acq: 16 Oct 2015 12:37 pm

Tgt Ion: 43 Resp: 2030

Ion	Ratio	Lower	Upper
43	100		
58	0.0	25.0	37.4#

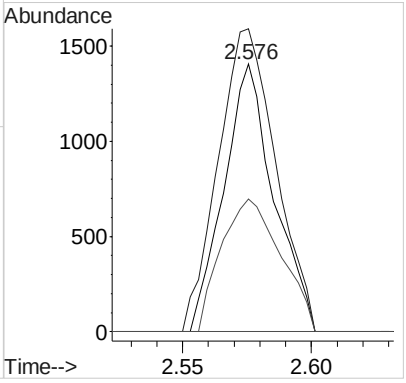




#19
METHYLENE CHLORIDE
Concen: 0.3241529 ppb
RT: 2.576 min Scan# 462
Delta R.T. 0.001 min
Lab File: 1016 09.D
Acq: 16 Oct 2015 12:37 pm

Tgt Ion: 84 Resp: 1890

Ion	Ratio	Lower	Upper
84	100		
49	130.5	115.0	172.4
86	59.1	51.4	77.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 10.D
Acq On : 16 Oct 2015 1:00 pm
Operator : 189
Sample : L793892-14 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS25

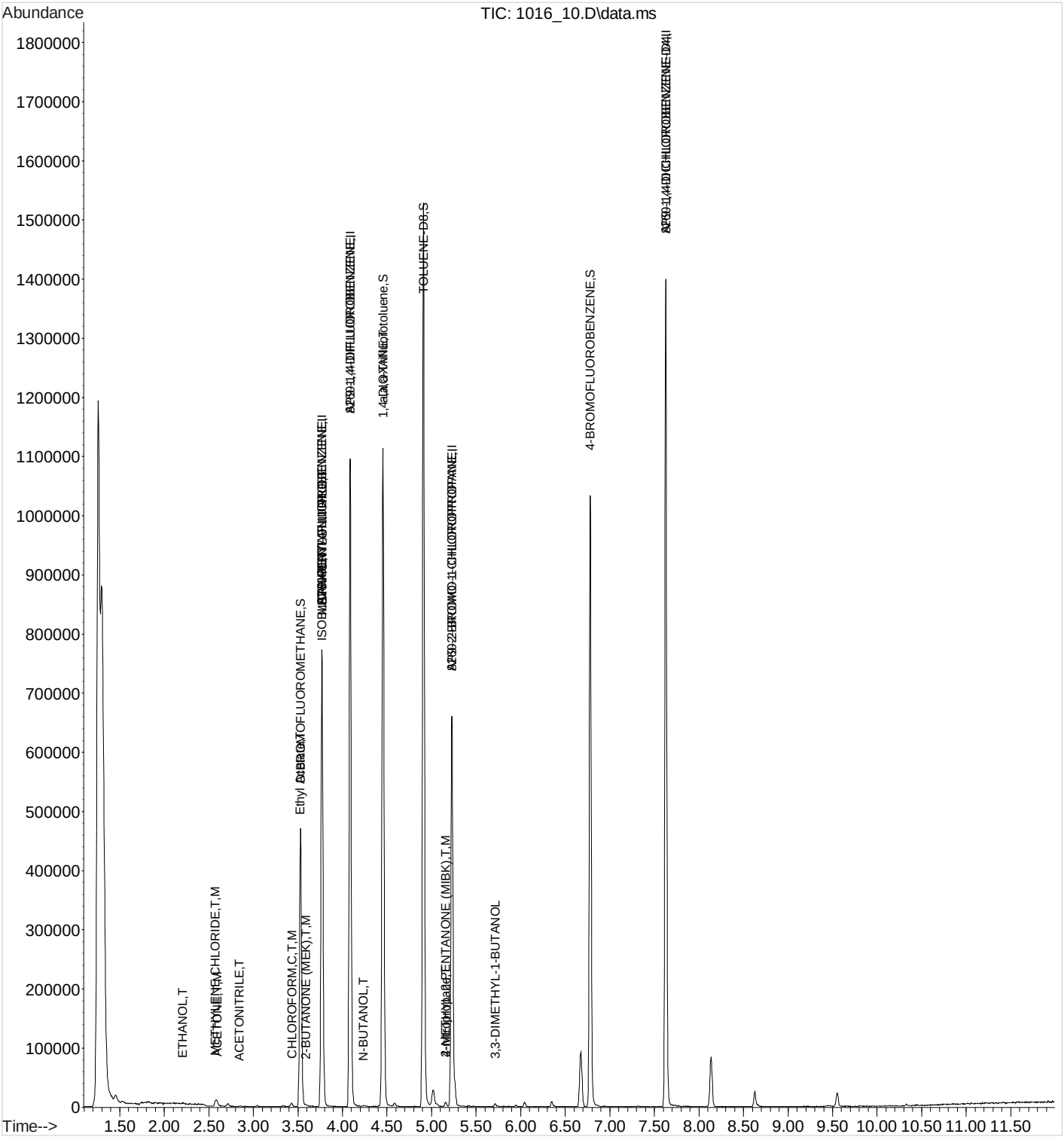
Quant Time: Oct 17 10:12:21 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

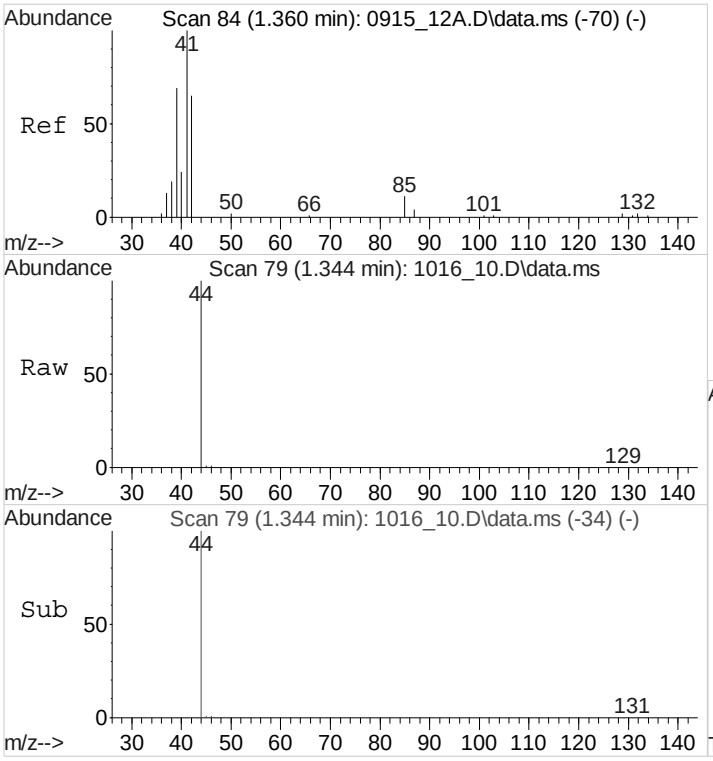
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	3.769	168	410942	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	688100	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.228	79	110529	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.627	152	306685	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	3.769	168	410942	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.087	114	688100	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.228	79	110529	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.627	152	306685	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.531	111	235000	37.9606300	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 94.90%				
46) a,a,a-Trifluorotoluene	4.453	146	377741	42.5686252	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 106.42%				
50) TOLUENE-D8	4.910	98	825417	41.0357666	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.59%				
68) 4-BROMOFLUOROBENZENE	6.781	95	298324	42.9784982	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 107.45%				
Target Compounds						Qvalue	
3) PROPENE	1.344	41	592	Below Cal	#	17	
16) ACETONE	2.595	43	9183	3.6536840	ppb		93
19) METHYLENE CHLORIDE	2.572	84	3243	0.5594793	ppb		94
29) 2-BUTANONE (MEK)	3.592	43	2876	0.7937223	ppb	#	54
32) CHLOROFORM	3.431	83	3045	0.3118283	ppb	#	94
49) 4-METHYL-2-PENTANONE (...	5.158	43	5596	0.9289828	ppb		93
97) ETHANOL	2.206	45	715	15.8859015	ppb	#	74
101) ACETONITRILE	2.843	41	967	1.4508919	ppb	#	34
107) Ethyl Acetate	3.524	43	1695	0.3071162	ppb	#	68
108) METHACRYLONITRILE	3.772	67	1370	0.6432924	ppb	#	1
111) ISOBUTANOL	3.765	43	858	2.4988984	ppb	#	1
115) N-BUTANOL	4.235	56	508	3.1701160	ppb	#	45
117) 2-nitropropane	5.158	43	5596	3.6088978	ppb	#	35
119) 1,4-DIOXANE	4.457	88	4932	95.7319521	ppb	#	16
121) 3,3-DIMETHYL-1-BUTANOL	5.714	57	772	1.0854505	ppb	#	1

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

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 10.D
Acq On : 16 Oct 2015 1:00 pm
Operator : 189
Sample : L793892-14 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:12:21 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

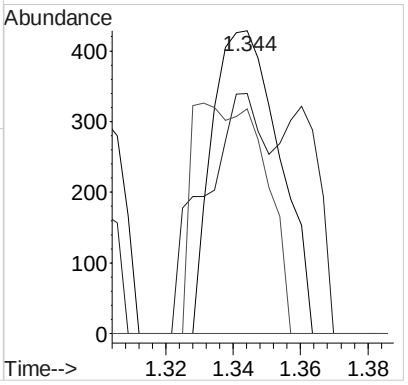


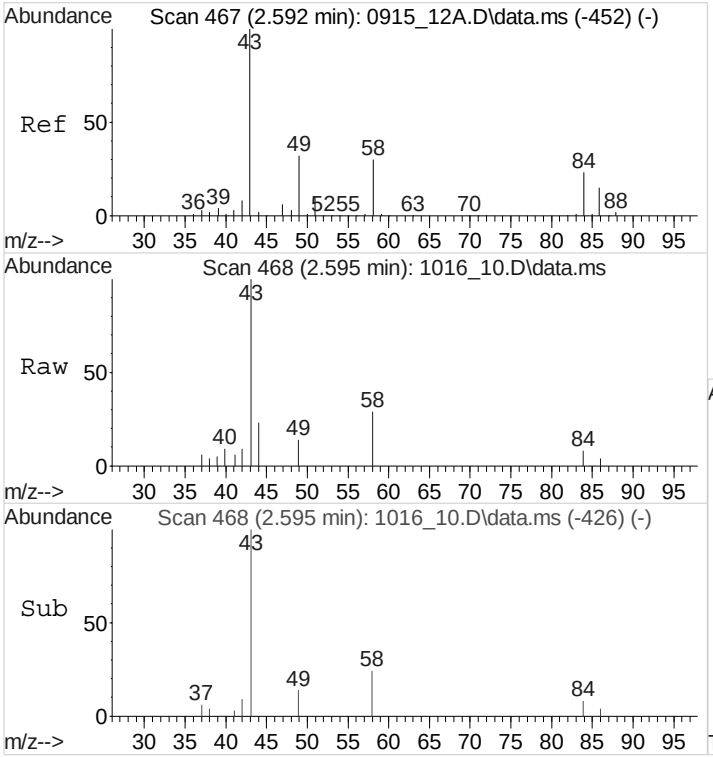


#3
PROPENE
Concen: Below Cal
RT: 1.344 min Scan# 79
Delta R.T. -0.006 min
Lab File: 1016 10.D
Acq: 16 Oct 2015 1:00 pm

Tgt Ion: 41 Resp: 592

Ion	Ratio	Lower	Upper
41	100		
39	0.0	55.2	82.8#
42	0.0	51.4	77.2#

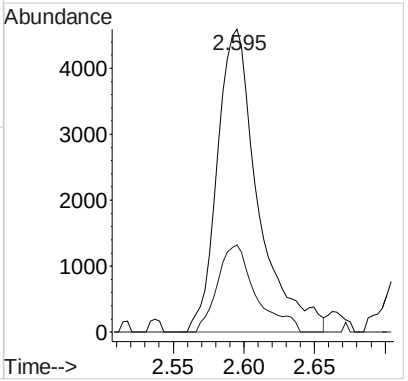


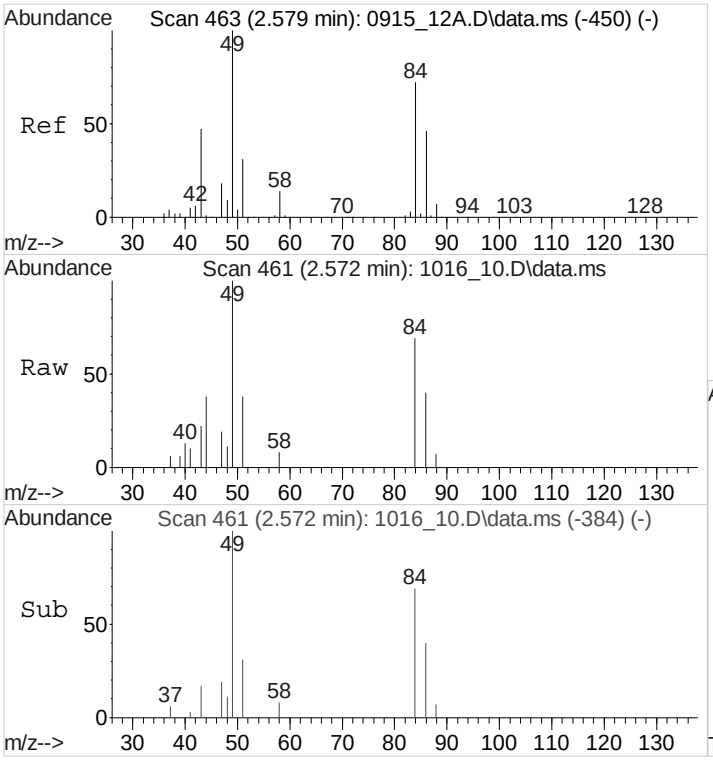


#16
ACETONE
Concen: 3.6536840 ppb
RT: 2.595 min Scan# 468
Delta R.T. 0.004 min
Lab File: 1016_10.D
Acq: 16 Oct 2015 1:00 pm

Tgt Ion: 43 Resp: 9183

Ion	Ratio	Lower	Upper
43	100		
58	27.3	25.0	37.4

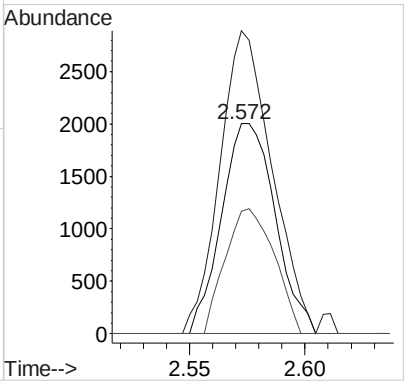


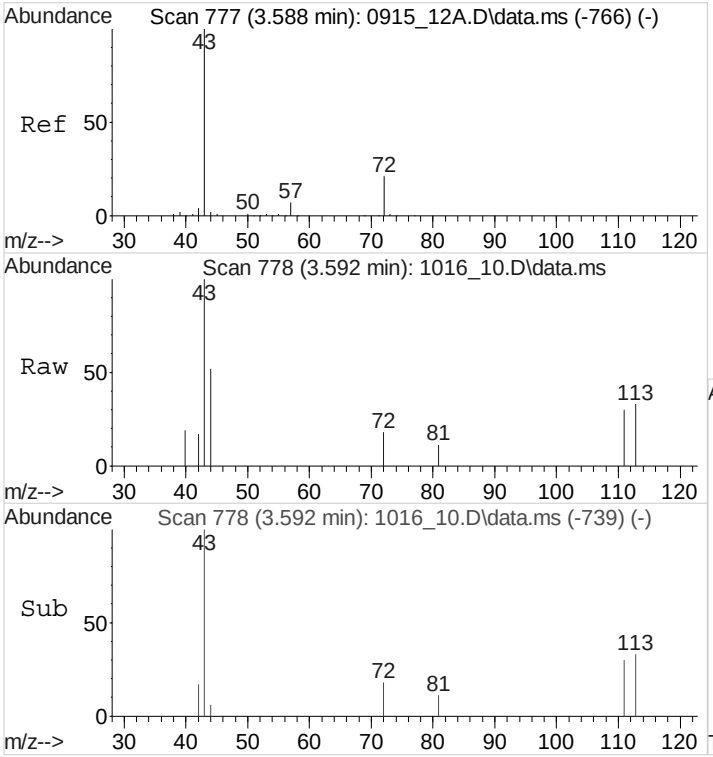


#19
METHYLENE CHLORIDE
Concen: 0.5594793 ppb
RT: 2.572 min Scan# 461
Delta R.T. -0.003 min
Lab File: 1016 10.D
Acq: 16 Oct 2015 1:00 pm

Tgt Ion: 84 Resp: 3243

Ion	Ratio	Lower	Upper
84	100		
49	140.0	115.0	172.4
86	54.5	51.4	77.2

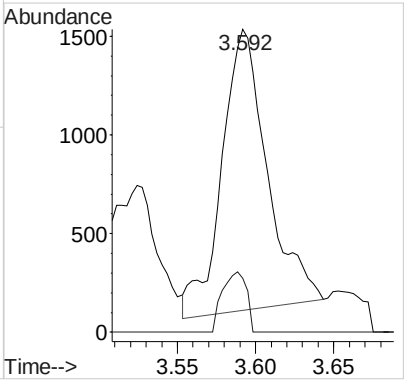


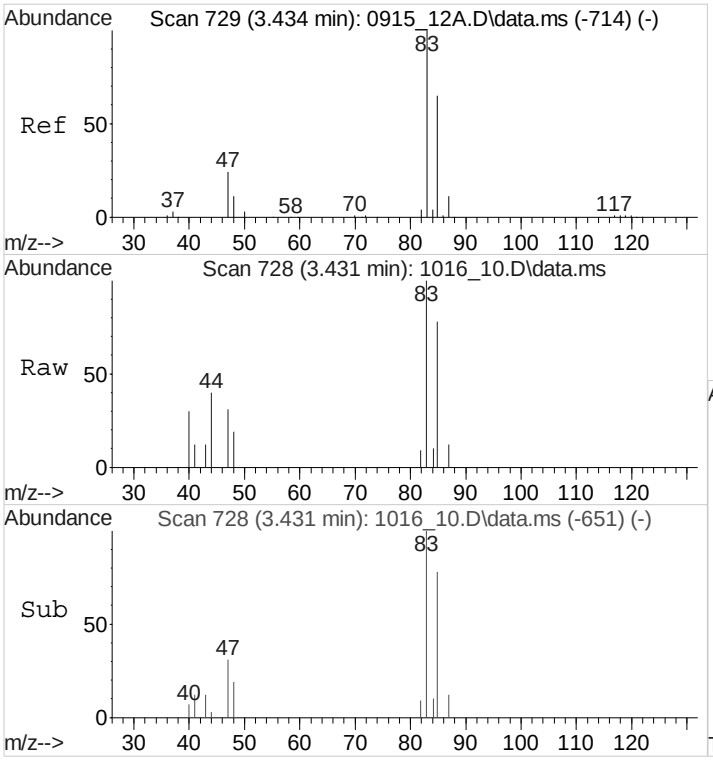


#29
2-BUTANONE (MEK)
Concen: 0.7937223 ppb
RT: 3.592 min Scan# 778
Delta R.T. 0.007 min
Lab File: 1016_10.D
Acq: 16 Oct 2015 1:00 pm

Tgt Ion: 43 Resp: 2876

Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.7	26.5#

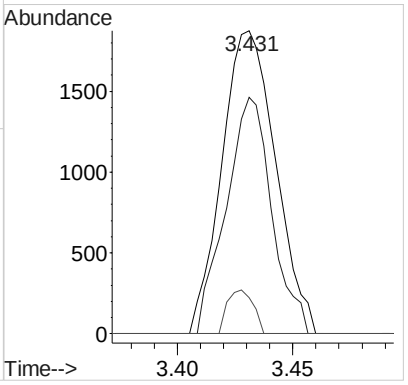


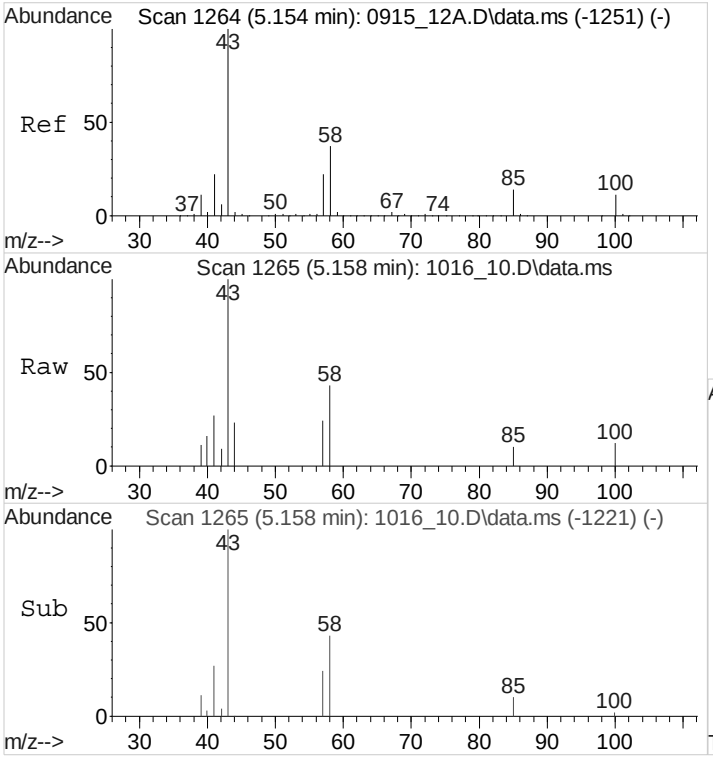


#32
CHLOROFORM
Concen: 0.3118283 ppb
RT: 3.431 min Scan# 728
Delta R.T. -0.003 min
Lab File: 1016 10.D
Acq: 16 Oct 2015 1:00 pm

Tgt Ion: 83 Resp: 3045

Ion	Ratio	Lower	Upper
83	100		
85	66.3	51.4	77.2
87	0.0	8.6	13.0#

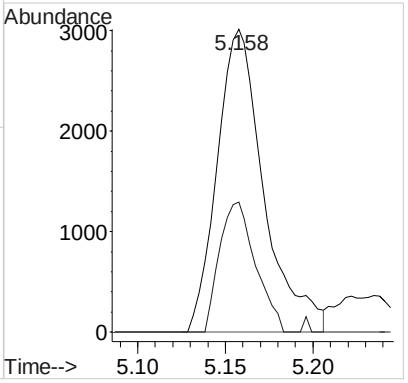


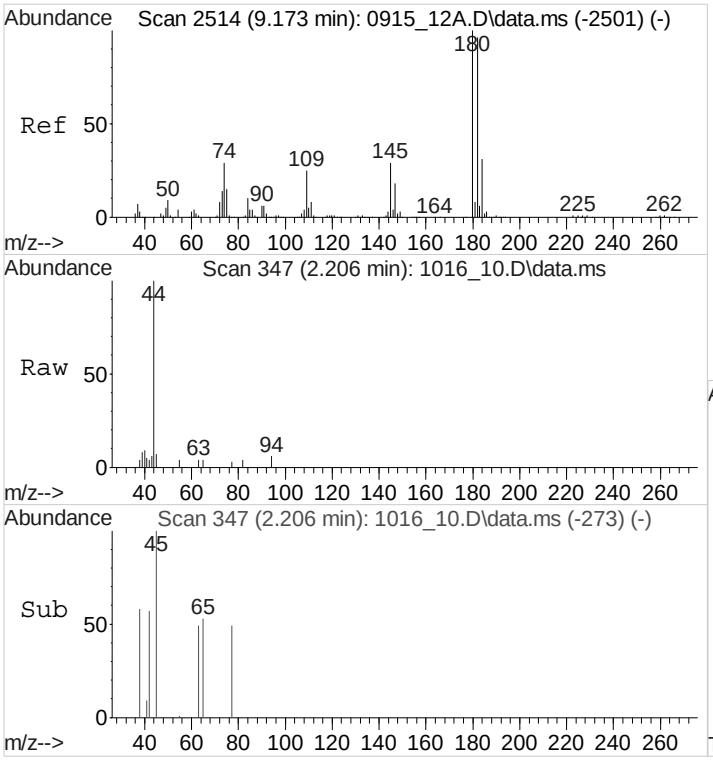


#49
4-METHYL-2-PENTANONE (MIBK)
Concen: 0.9289828 ppb
RT: 5.158 min Scan# 1265
Delta R.T. 0.003 min
Lab File: 1016_10.D
Acq: 16 Oct 2015 1:00 pm

Tgt Ion: 43 Resp: 5596

Ion	Ratio	Lower	Upper
43	100		
58	33.0	29.9	44.9

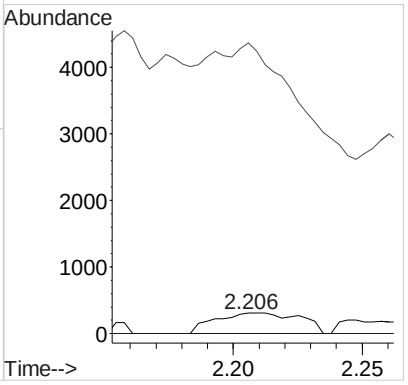


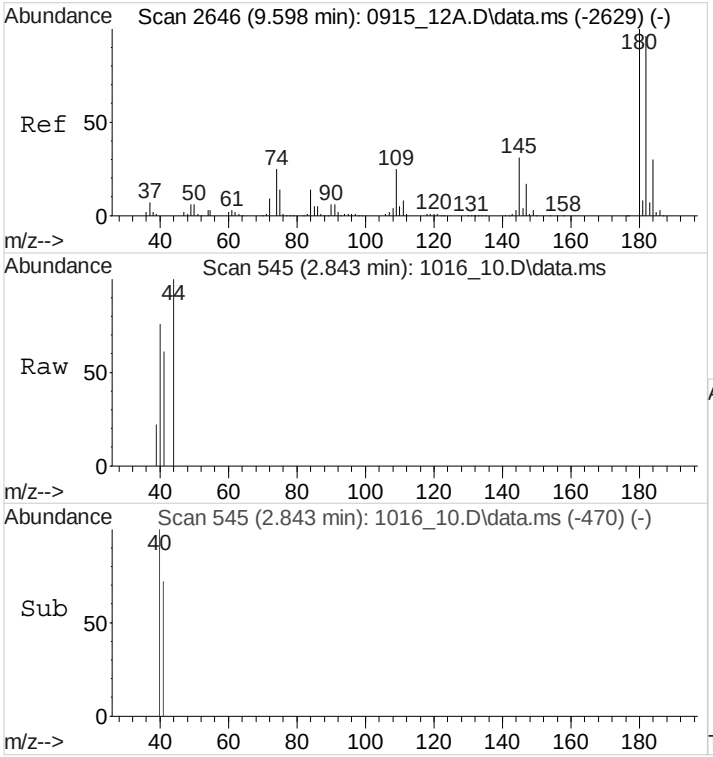


#97
ETHANOL
Concen: 15.8859015 ppb
RT: 2.206 min Scan# 347
Delta R.T. -0.013 min
Lab File: 1016 10.D
Acq: 16 Oct 2015 1:00 pm

Tgt Ion: 45 Resp: 715

Ion	Ratio	Lower	Upper
45	100		
46	0.0	8.0	12.0#
44	0.0	0.4	0.6#

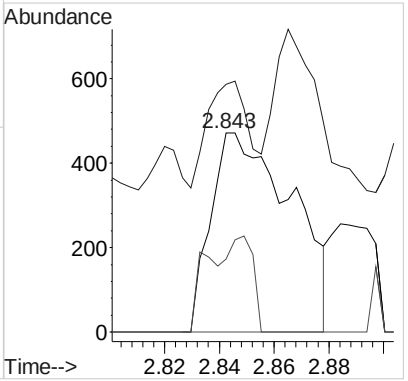


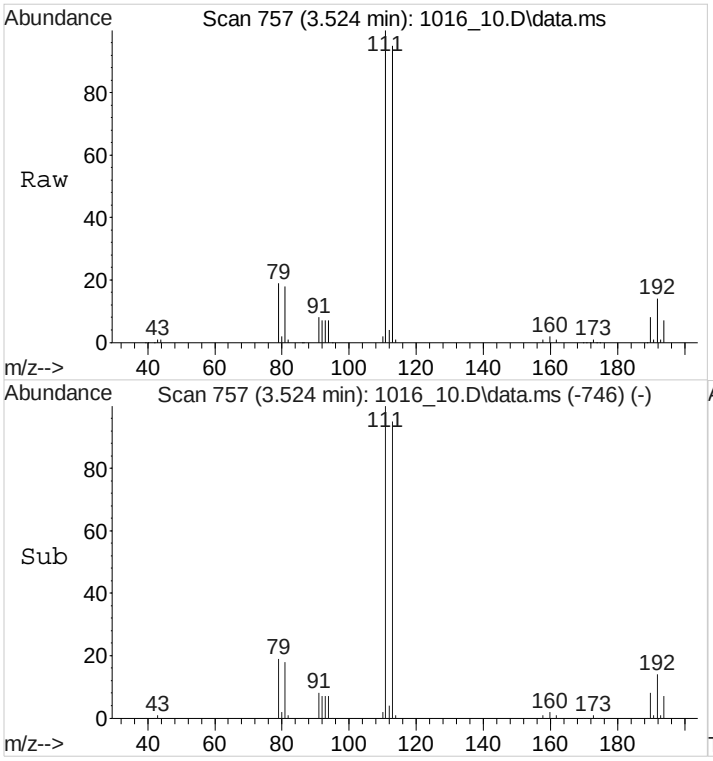


#101
ACETONITRILE
Concen: 1.4508919 ppb
RT: 2.843 min Scan# 545
Delta R.T. -0.009 min
Lab File: 1016_10.D
Acq: 16 Oct 2015 1:00 pm

Tgt Ion: 41 Resp: 967

Ion	Ratio	Lower	Upper
41	100		
40	0.0	42.9	64.3#
39	0.0	15.4	23.0#

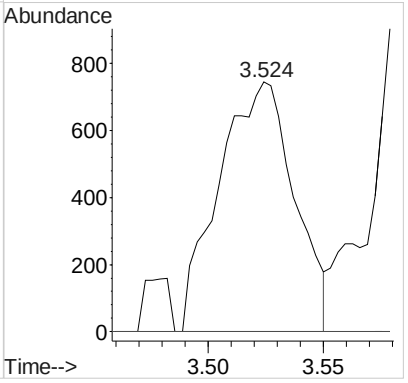


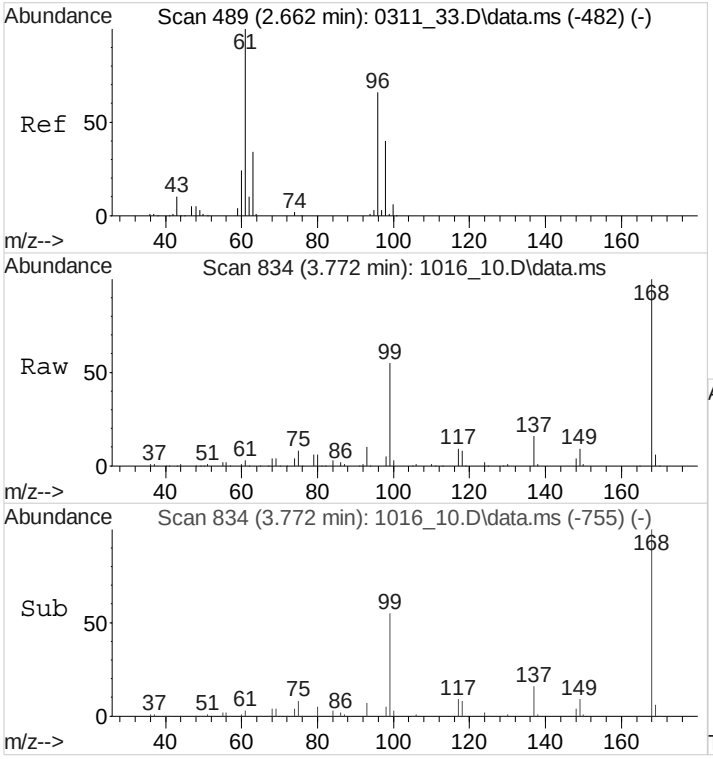


#107
Ethyl Acetate
Concen: 0.3071162 ppb
RT: 3.524 min Scan# 757
Delta R.T. 0.045 min
Lab File: 1016 10.D
Acq: 16 Oct 2015 1:00 pm

Tgt Ion: 43 Resp: 1695

Ion	Ratio	Lower	Upper
43	100		
45	0.0	11.7	17.5#
70	0.0	7.4	11.2#

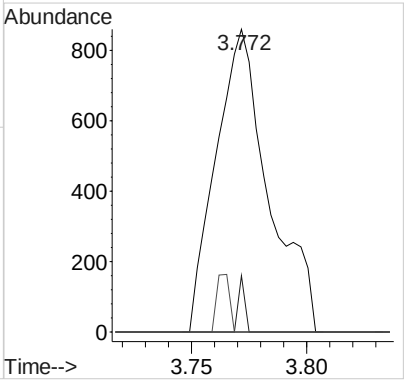


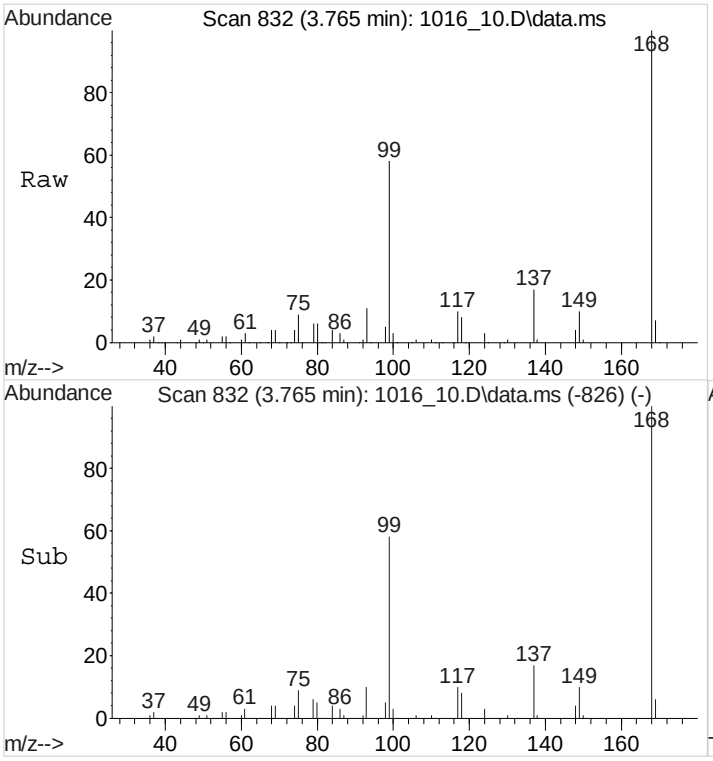


#108
METHACRYLONITRILE
Concen: 0.6432924 ppb
RT: 3.772 min Scan# 834
Delta R.T. 0.003 min
Lab File: 1016_10.D
Acq: 16 Oct 2015 1:00 pm

Tgt Ion: 67 Resp: 1370

Ion	Ratio	Lower	Upper
67	100		
41	0.0	129.0	193.6#
39	0.0	68.3	102.5#
52	0.0	37.0	55.4#

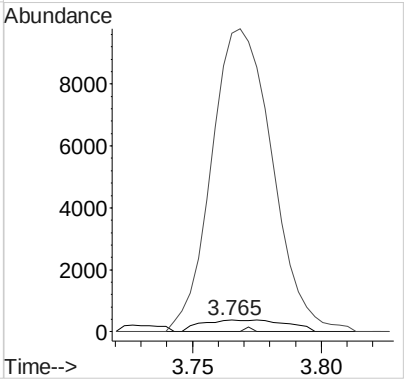


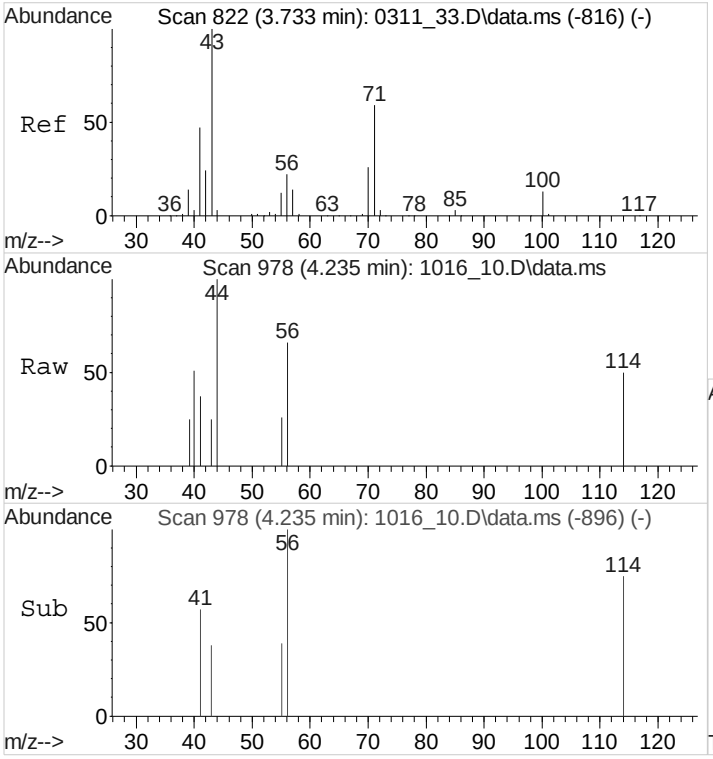


#111
ISOBUTANOL
Concen: 2.4988984 ppb
RT: 3.765 min Scan# 832
Delta R.T. -0.064 min
Lab File: 1016 10.D
Acq: 16 Oct 2015 1:00 pm

Tgt Ion: 43 Resp: 858

Ion	Ratio	Lower	Upper
43	100		
41	0.0	54.1	81.1#
74	1870.6	6.8	10.2#

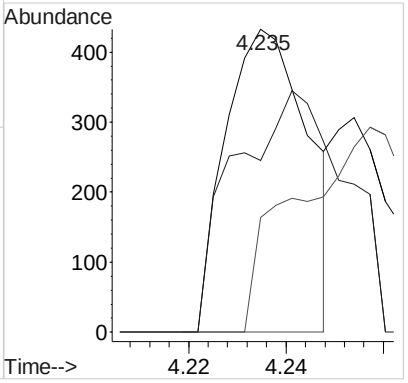


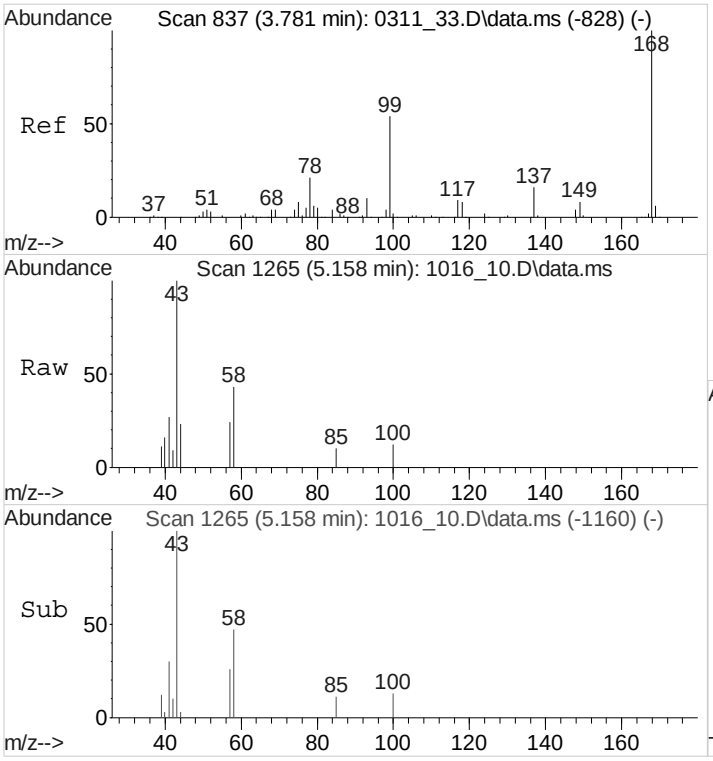


#115
N-BUTANOL
Concen: 3.1701160 ppb
RT: 4.235 min Scan# 978
Delta R.T. 0.013 min
Lab File: 1016_10.D
Acq: 16 Oct 2015 1:00 pm

Tgt Ion: 56 Resp: 508

Ion	Ratio	Lower	Upper
56	100		
41	106.7	60.6	90.8#
43	0.0	47.0	70.6#

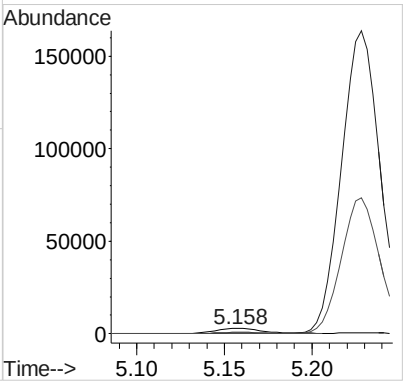


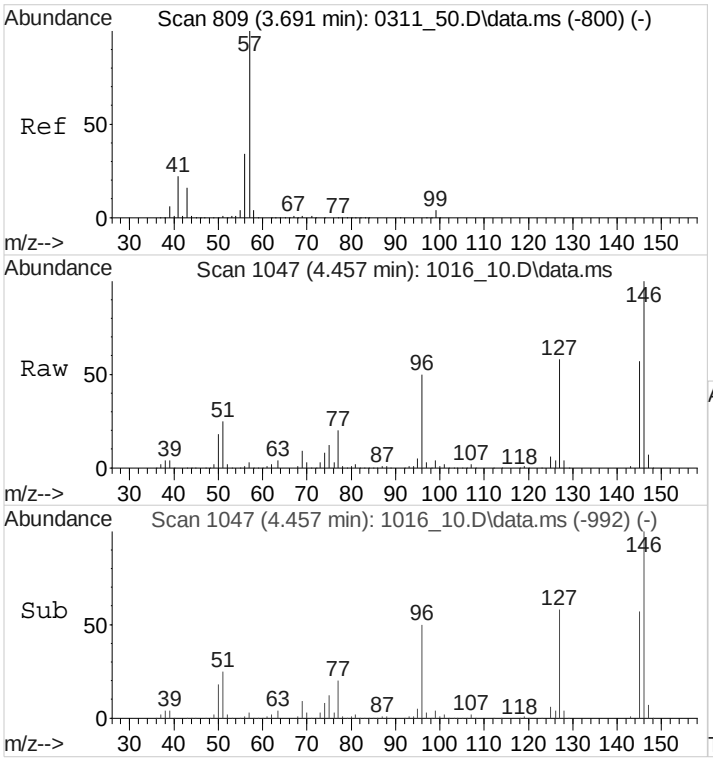


#117
2-nitropropane
Concen: 3.6088978 ppb
RT: 5.158 min Scan# 1265
Delta R.T. 0.087 min
Lab File: 1016 10.D
Acq: 16 Oct 2015 1:00 pm

Tgt Ion: 43 Resp: 5596

Ion	Ratio	Lower	Upper
43	100		
41	22.9	67.8	101.8#
39	0.0	23.6	35.4#

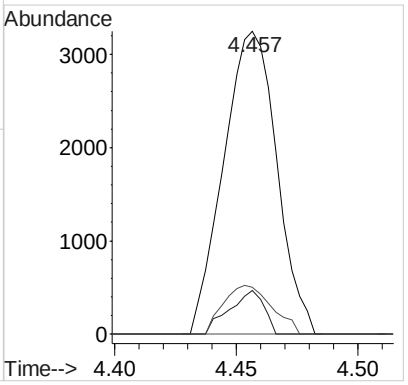


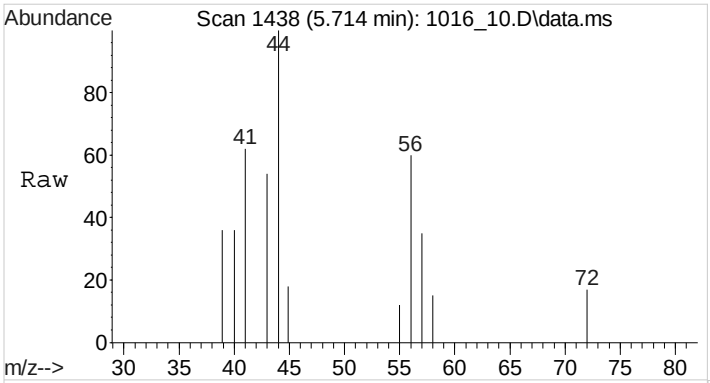


#119
1,4-DIOXANE
Concen: 95.7319521 ppb
RT: 4.457 min Scan# 1047
Delta R.T. -0.074 min
Lab File: 1016_10.D
Acq: 16 Oct 2015 1:00 pm

Tgt Ion: 88 Resp: 4932

Ion	Ratio	Lower	Upper
88	100		
58	0.0	53.9	80.9#
43	14.7	0.0	0.0#

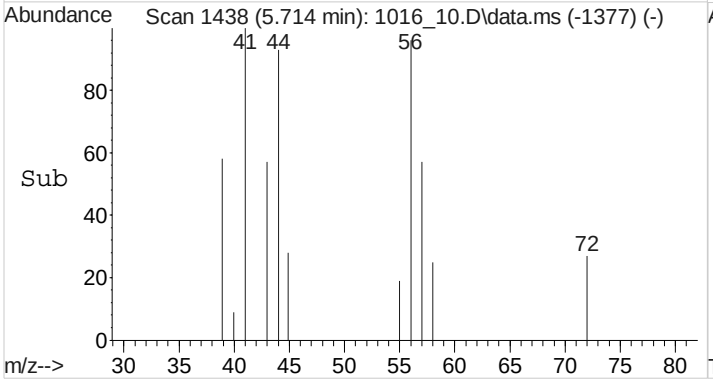


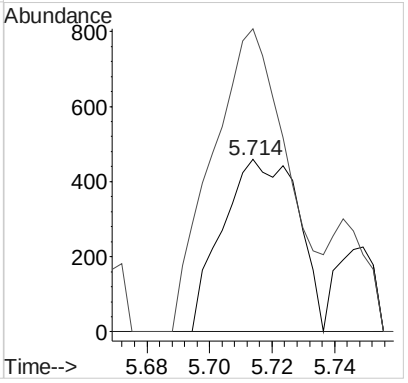


#121
3,3-DIMETHYL-1-BUTANOL
Concen: 1.0854505 ppb
RT: 5.714 min Scan# 1438
Delta R.T. 0.045 min
Lab File: 1016 10.D
Acq: 16 Oct 2015 1:00 pm

Tgt Ion: 57 Resp: 772

Ion	Ratio	Lower	Upper
57	100		
69	0.0	56.8	85.2#
41	177.1	59.6	89.4#





Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 11.D
Acq On : 16 Oct 2015 1:18 pm
Operator : 189
Sample : L793892-16 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS25

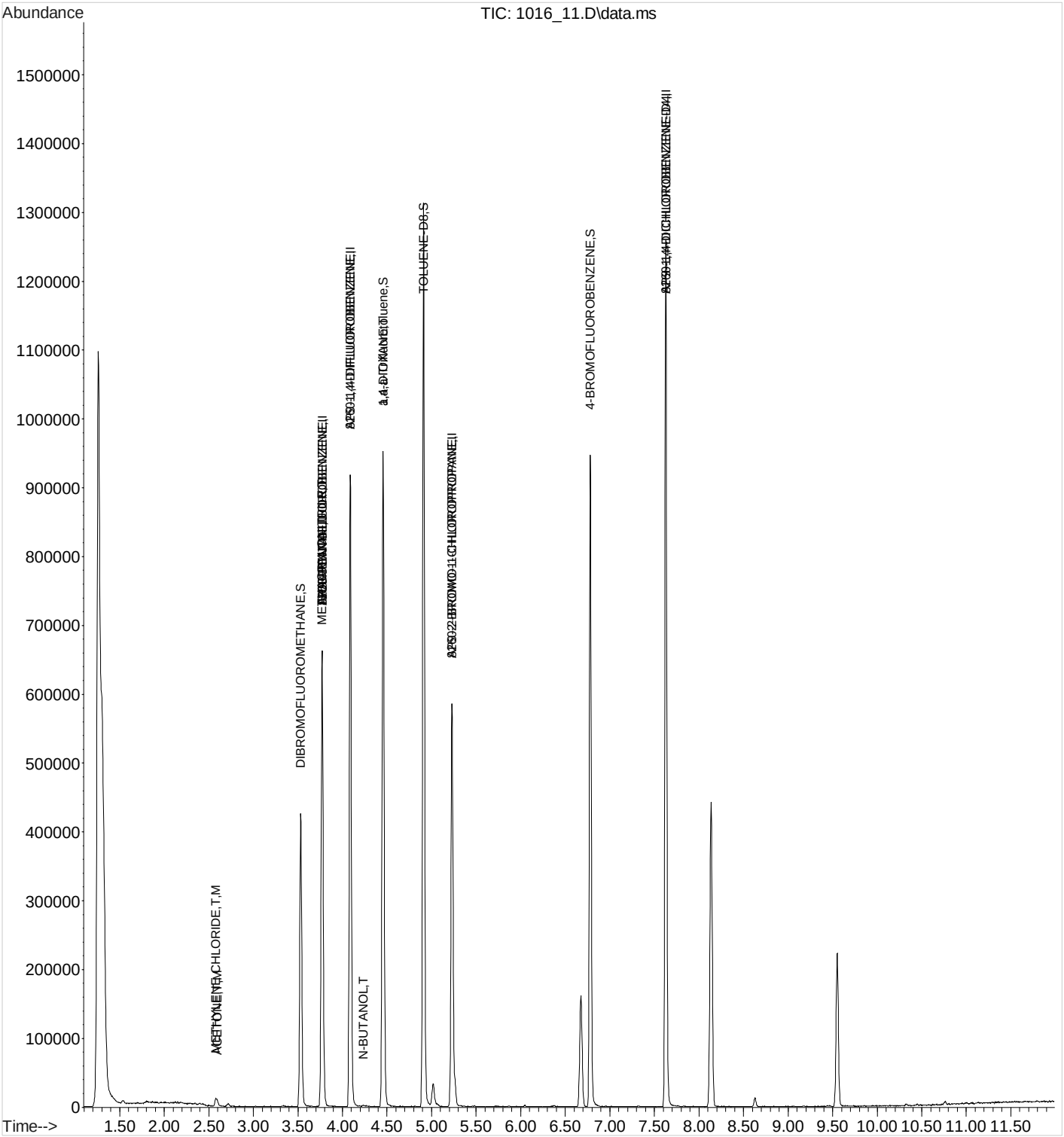
Quant Time: Oct 17 10:12:40 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

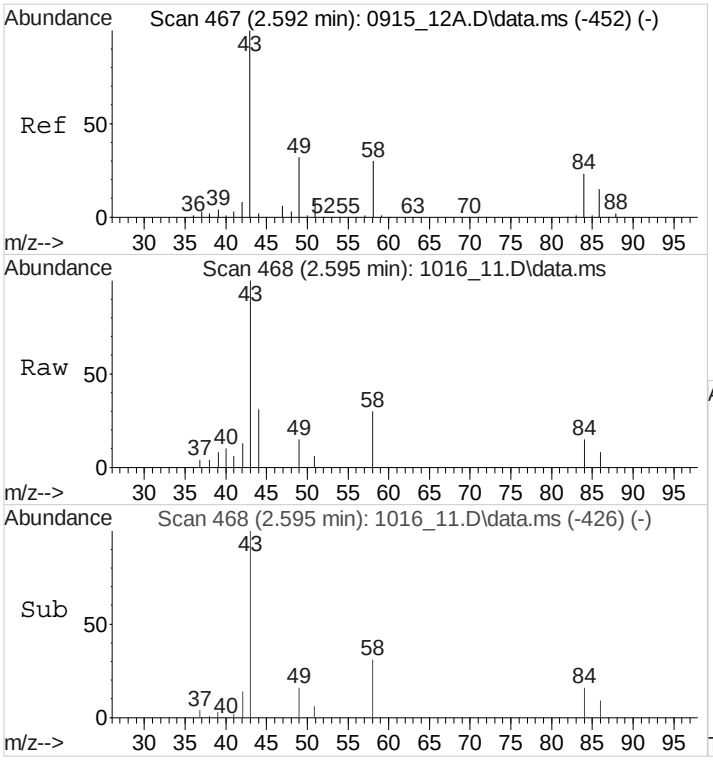
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	3.772	168	352649	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	578728	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.228	79	98932	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	287149	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	3.772	168	352649	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.087	114	578728	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.228	79	98932	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	287149	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.530	111	211031	39.7236988	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 99.31%				
46) a,a,a-Trifluorotoluene	4.456	146	325083	43.5578887	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 108.89%				
50) TOLUENE-D8	4.910	98	709495	41.9387560	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.85%				
68) 4-BROMOFLUOROBENZENE	6.781	95	272321	43.8312269	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 109.58%				
Target Compounds							Qvalue
16) ACETONE	2.595	43	7761	3.5983380	ppb		97
19) METHYLENE CHLORIDE	2.576	84	2823	0.5675261	ppb		98
108) METHACRYLONITRILE	3.768	67	1178	0.6445714	ppb	#	1
111) ISOBUTANOL	3.772	43	663	2.2501565	ppb	#	1
115) N-BUTANOL	4.231	56	1029	7.6349092	ppb	#	57
119) 1,4-DIOXANE	4.456	88	4278	98.7305804	ppb	#	16

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

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 11.D
Acq On : 16 Oct 2015 1:18 pm
Operator : 189
Sample : L793892-16 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:12:40 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

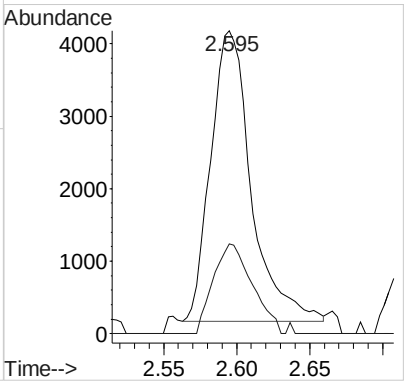


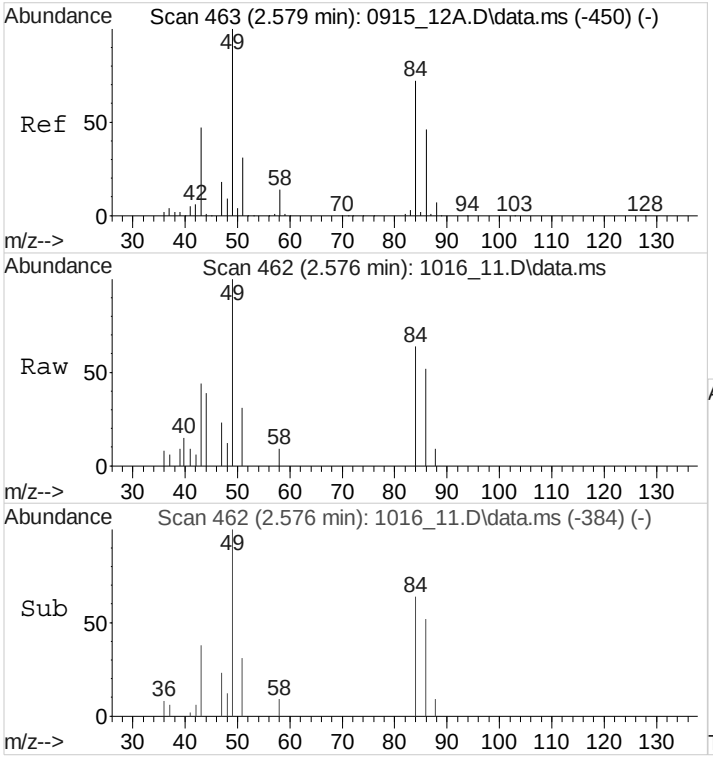


#16
ACETONE
Concen: 3.5983380 ppb
RT: 2.595 min Scan# 468
Delta R.T. 0.004 min
Lab File: 1016 11.D
Acq: 16 Oct 2015 1:18 pm

Tgt Ion: 43 Resp: 7761

Ion	Ratio	Lower	Upper
43	100		
58	29.8	25.0	37.4

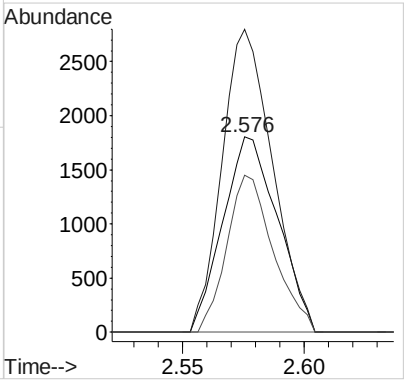


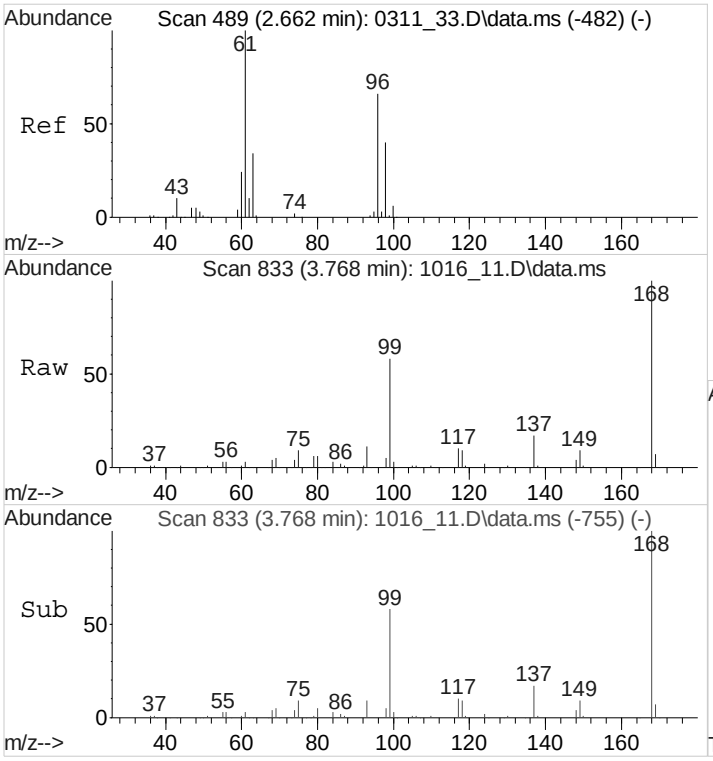


#19
METHYLENE CHLORIDE
Concen: 0.5675261 ppb
RT: 2.576 min Scan# 462
Delta R.T. 0.001 min
Lab File: 1016_11.D
Acq: 16 Oct 2015 1:18 pm

Tgt Ion: 84 Resp: 2823

Ion	Ratio	Lower	Upper
84	100		
49	143.1	115.0	172.4
86	68.2	51.4	77.2

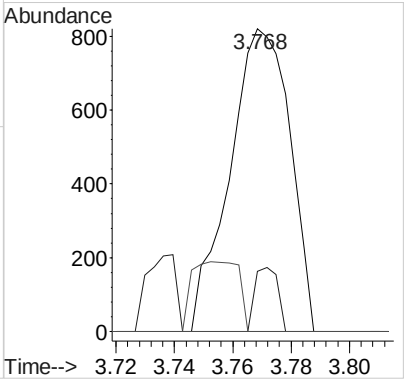


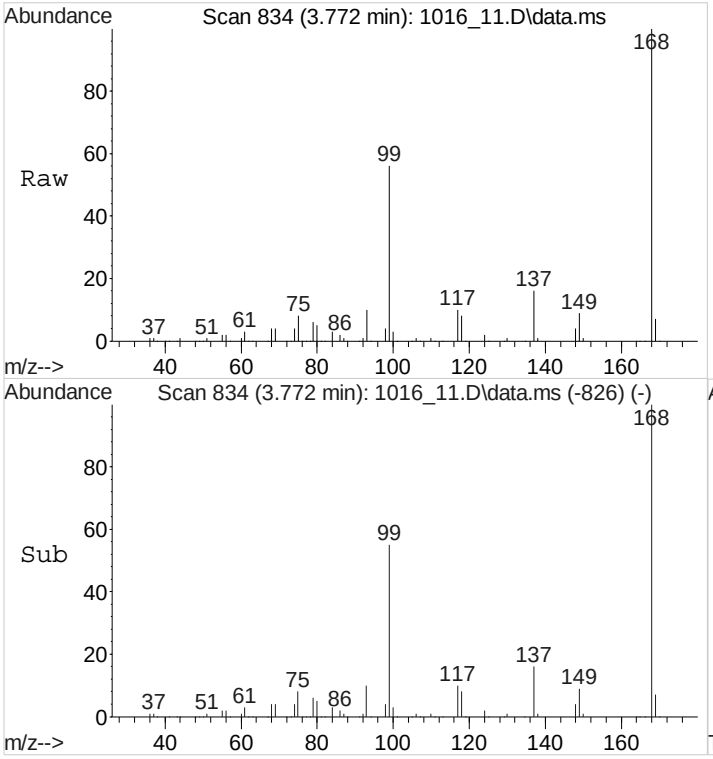


#108
METHACRYLONITRILE
Concen: 0.6445714 ppb
RT: 3.768 min Scan# 833
Delta R.T. 0.000 min
Lab File: 1016 11.D
Acq: 16 Oct 2015 1:18 pm

Tgt Ion: 67 Resp: 1178

Ion	Ratio	Lower	Upper
67	100		
41	0.0	129.0	193.6#
39	0.0	68.3	102.5#
52	0.0	37.0	55.4#

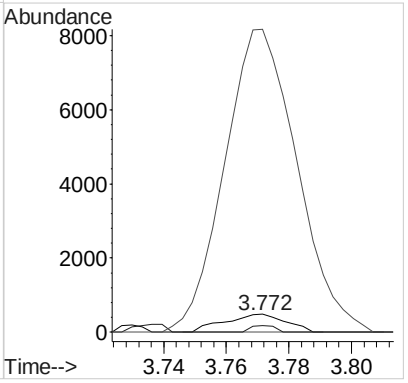


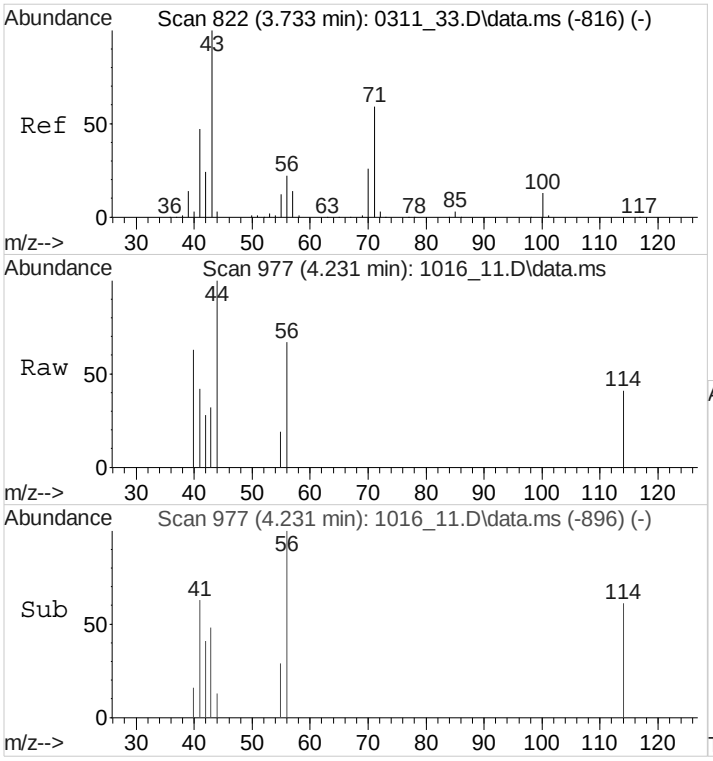


#111
ISOBUTANOL
Concen: 2.2501565 ppb
RT: 3.772 min Scan# 834
Delta R.T. -0.058 min
Lab File: 1016_11.D
Acq: 16 Oct 2015 1:18 pm

Tgt Ion: 43 Resp: 663

Ion	Ratio	Lower	Upper
43	100		
41	0.0	54.1	81.1#
74	1981.4	6.8	10.2#

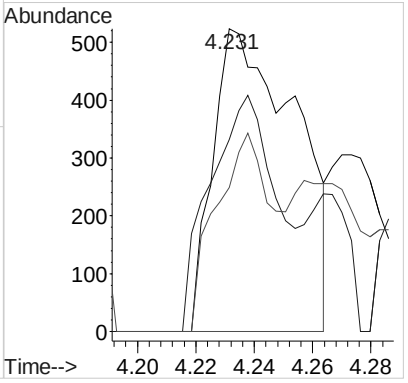


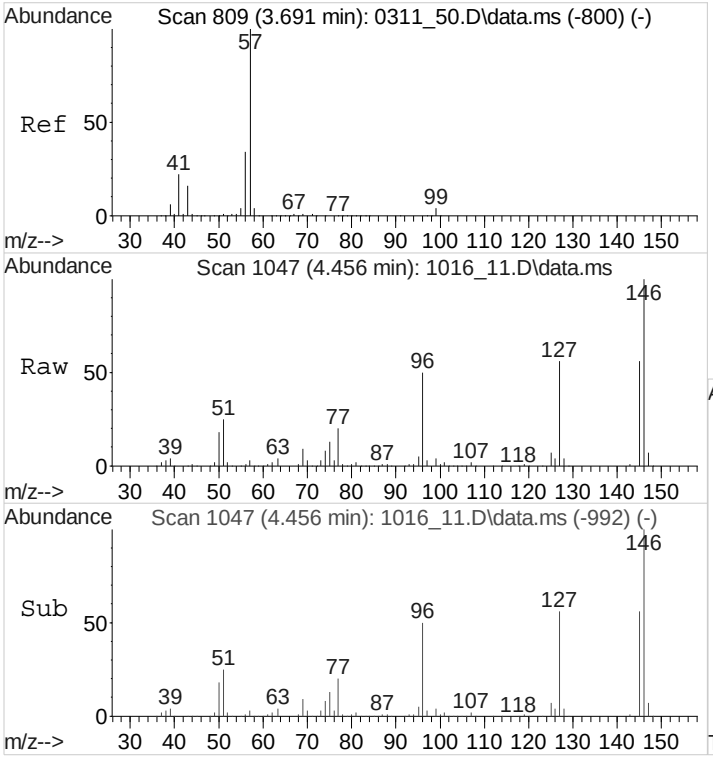


#115
N-BUTANOL
Concen: 7.6349092 ppb
RT: 4.231 min Scan# 977
Delta R.T. 0.010 min
Lab File: 1016 11.D
Acq: 16 Oct 2015 1:18 pm

Tgt Ion: 56 Resp: 1029

Ion	Ratio	Lower	Upper
56	100		
41	62.1	60.6	90.8
43	0.0	47.0	70.6#

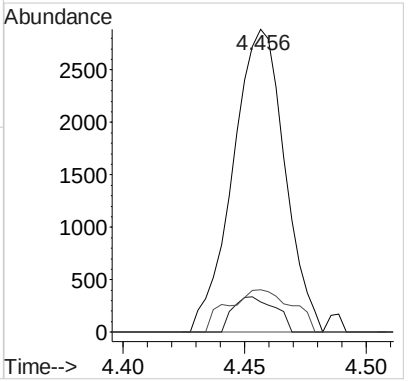




#119
1,4-DIOXANE
Concen: 98.7305804 ppb
RT: 4.456 min Scan# 1047
Delta R.T. -0.074 min
Lab File: 1016_11.D
Acq: 16 Oct 2015 1:18 pm

Tgt Ion: 88 Resp: 4278

Ion	Ratio	Lower	Upper
88	100		
58	0.0	53.9	80.9#
43	17.2	0.0	0.0#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 12.D
Acq On : 16 Oct 2015 1:36 pm
Operator : 189
Sample : L793892-06 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:13:08 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

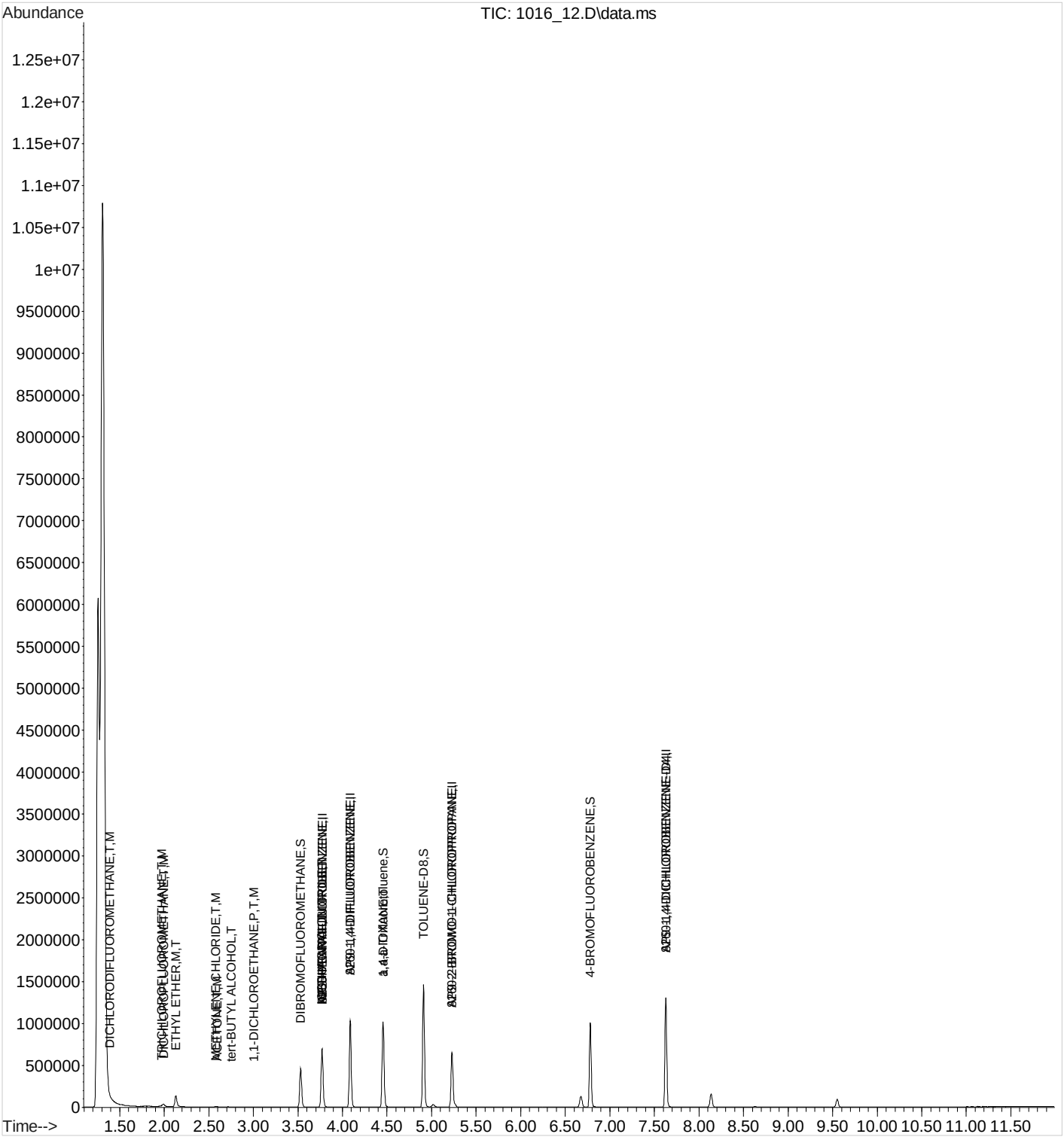
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	3.772	168	374896	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	634723	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.228	79	109072	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	293609	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	3.772	168	374896	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.087	114	634723	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.228	79	109072	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	293609	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.530	111	229372	40.6139916	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 101.53%				
46) a,a,a-Trifluorotoluene	4.456	146	349377	42.6832158	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 106.71%				
50) TOLUENE-D8	4.910	98	784715	42.2929928	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.73%				
68) 4-BROMOFLUOROBENZENE	6.781	95	286169	41.7780910	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.45%				
Target Compounds						Qvalue	
3) PROPENE	1.334	41	1195	Below Cal	#	17	
4) DICHLORODIFLUOROMETHANE	1.386	85	6437	1.3193152	ppb		97
10) TRICHLOROFLUOROMETHANE	1.971	101	2727	0.3958462	ppb	#	88
11) DICHLOROFLUOROMETHANE	1.993	67	28766	3.3143210	ppb		98
12) ETHYL ETHER	2.129	59	65651	20.2351201	ppb		97
16) ACETONE	2.592	43	5233	2.2822691	ppb		93
19) METHYLENE CHLORIDE	2.575	84	2910	0.5503004	ppb		93
24) 1,1-DICHLOROETHANE	3.003	63	2865	0.3051773	ppb		96
103) tert-BUTYL ALCOHOL	2.752	59	762	0.8853700	ppb	#	65
108) METHACRYLONITRILE	3.768	67	1113	0.5728656	ppb	#	1
111) ISOBUTANOL	3.768	43	641	2.0463931	ppb	#	1
119) 1,4-DIOXANE	4.456	88	5372	113.0413077	ppb	#	29

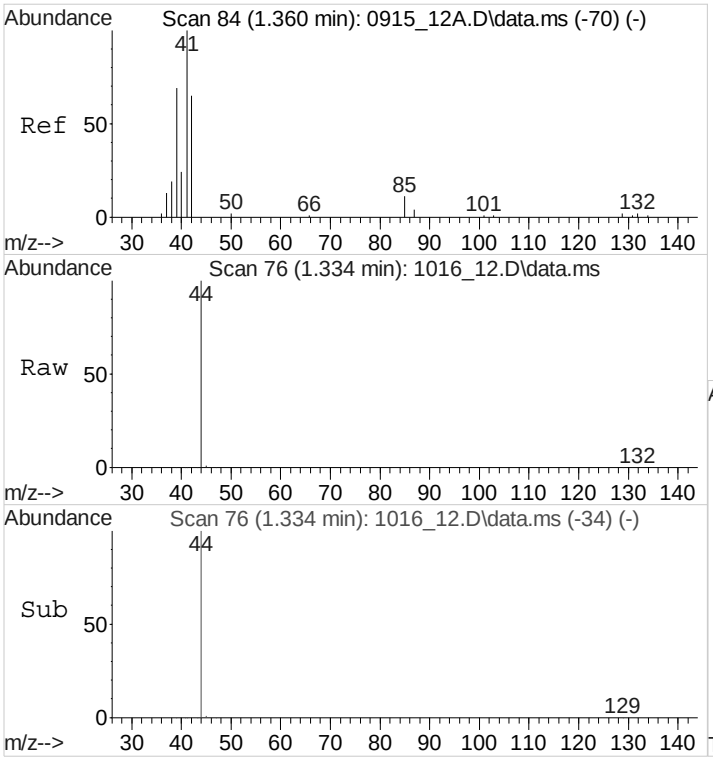
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 12.D
Acq On : 16 Oct 2015 1:36 pm
Operator : 189
Sample : L793892-06 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:13:08 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

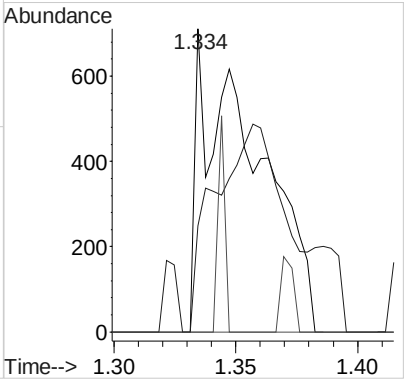


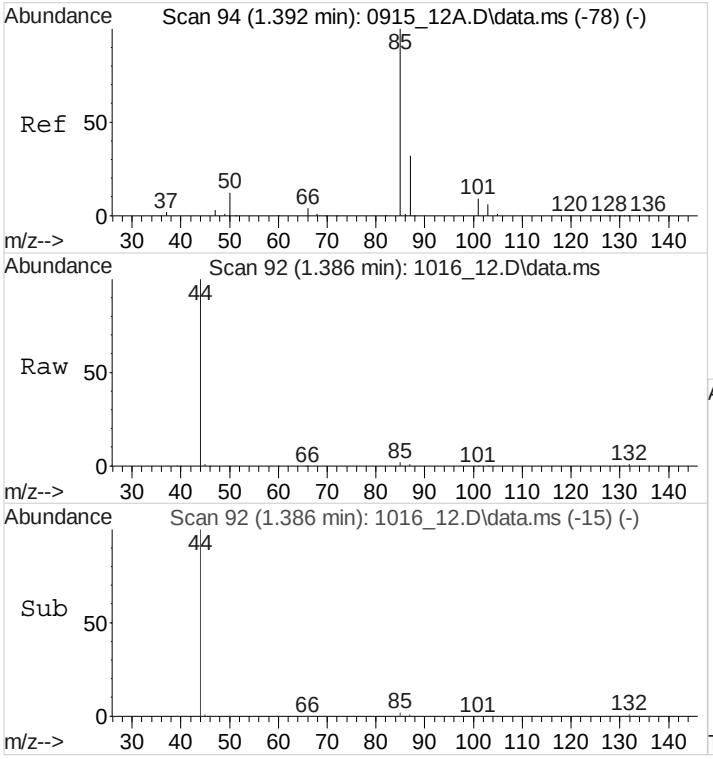


#3
PROPENE
Concen: Below Cal
RT: 1.334 min Scan# 76
Delta R.T. -0.016 min
Lab File: 1016 12.D
Acq: 16 Oct 2015 1:36 pm

Tgt Ion: 41 Resp: 1195

Ion	Ratio	Lower	Upper
41	100		
39	0.0	55.2	82.8#
42	0.0	51.4	77.2#

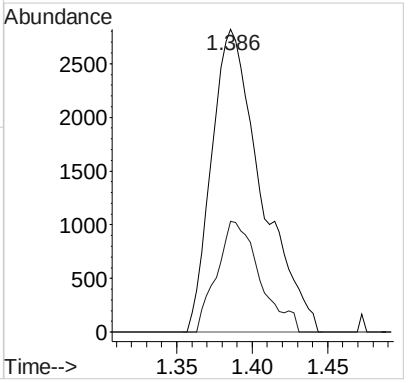


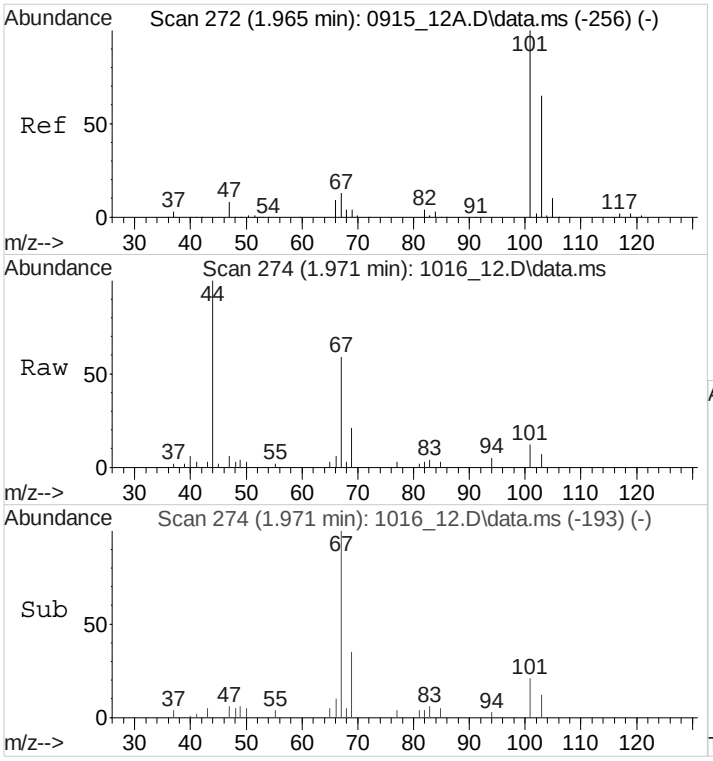


#4
DICHLORODIFLUOROMETHANE
Concen: 1.3193152 ppb
RT: 1.386 min Scan# 92
Delta R.T. -0.003 min
Lab File: 1016_12.D
Acq: 16 Oct 2015 1:36 pm

Tgt Ion: 85 Resp: 6437

Ion	Ratio	Lower	Upper
85	100		
87	31.7	26.6	39.8

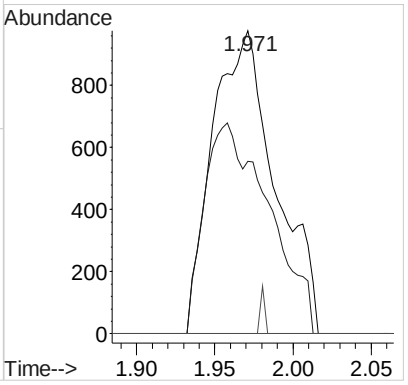


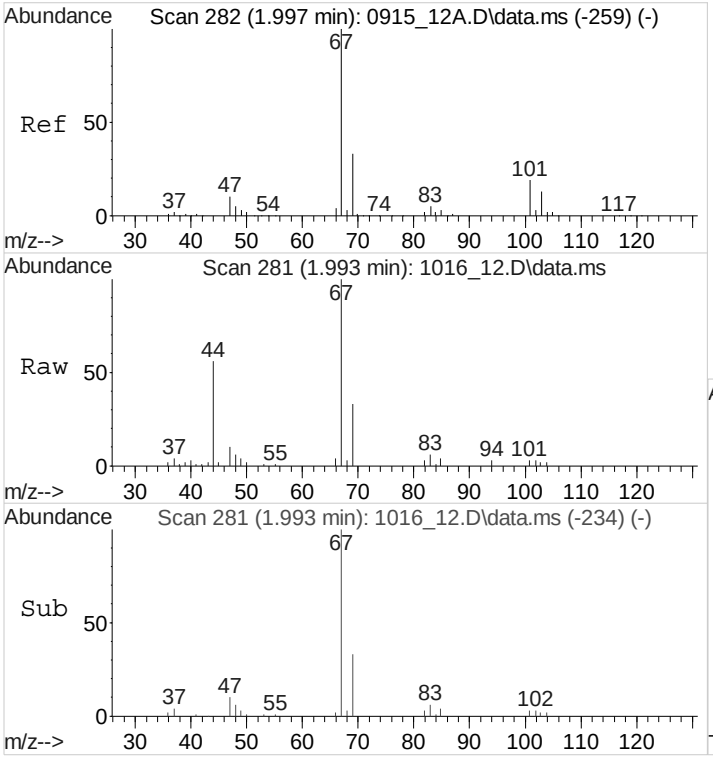


#10
TRICHLOROFLUOROMETHANE
Concen: 0.3958462 ppb
RT: 1.971 min Scan# 274
Delta R.T. 0.010 min
Lab File: 1016 12.D
Acq: 16 Oct 2015 1:36 pm

Tgt Ion:101 Resp: 2727

Ion	Ratio	Lower	Upper
101	100		
103	71.5	51.7	77.5
105	0.0	8.6	13.0#

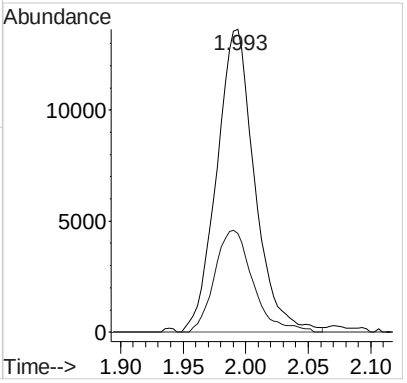


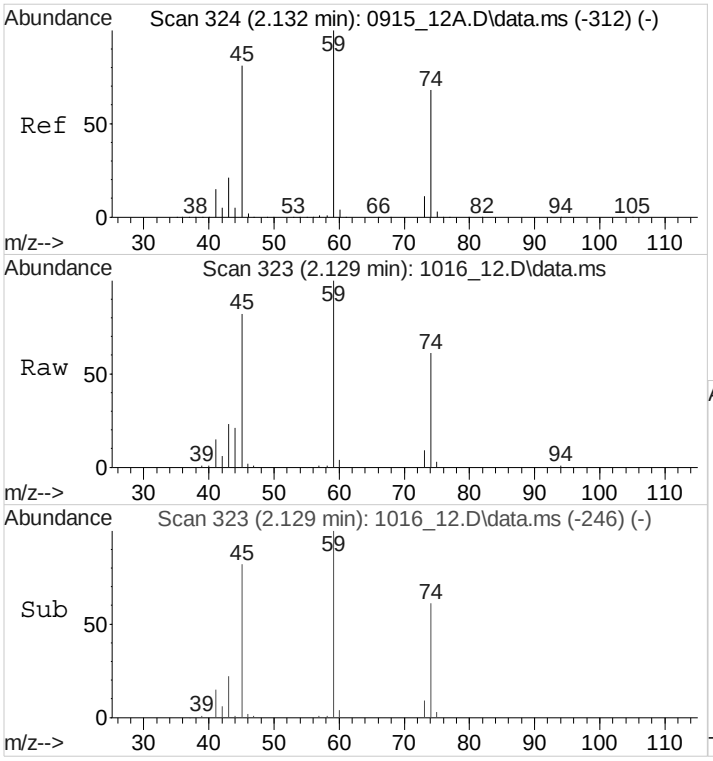


#11
DICHLOROFLUOROMETHANE
Concen: 3.3143210 ppb
RT: 1.993 min Scan# 281
Delta R.T. -0.000 min
Lab File: 1016_12.D
Acq: 16 Oct 2015 1:36 pm

Tgt Ion: 67 Resp: 28766

Ion	Ratio	Lower	Upper
67	100		
69	34.0	26.5	39.7

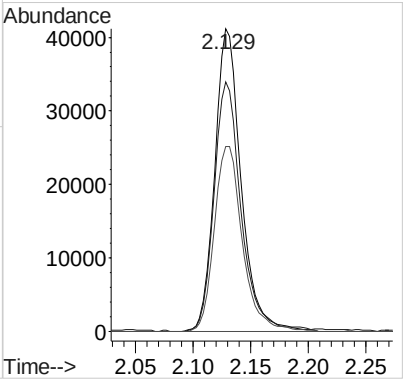


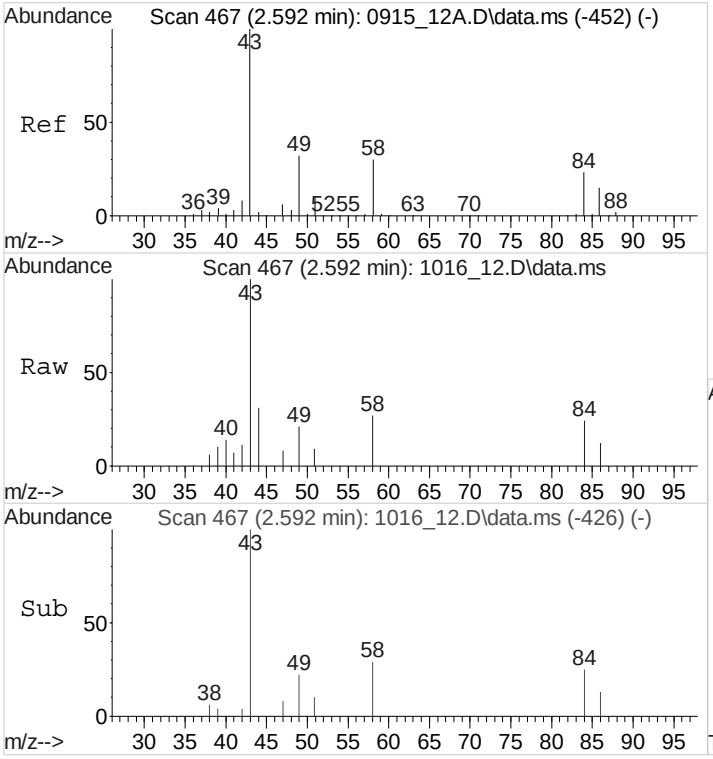


#12
ETHYL ETHER
Concen: 20.2351201 ppb
RT: 2.129 min Scan# 323
Delta R.T. -0.003 min
Lab File: 1016 12.D
Acq: 16 Oct 2015 1:36 pm

Tgt Ion: 59 Resp: 65651

Ion	Ratio	Lower	Upper
59	100		
45	85.3	65.8	98.8
74	65.5	54.2	81.4

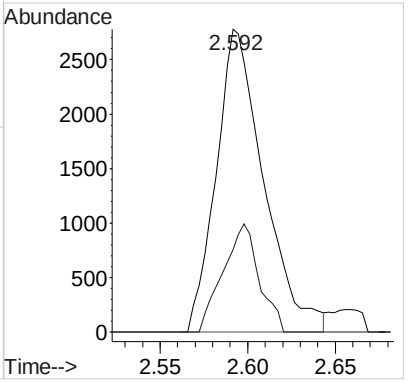


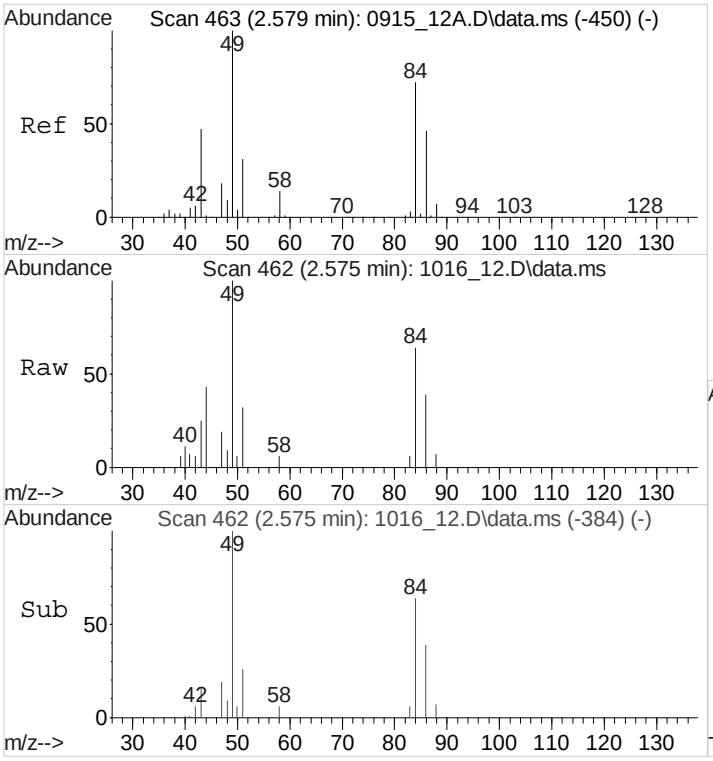


#16
ACETONE
Concen: 2.2822691 ppb
RT: 2.592 min Scan# 467
Delta R.T. 0.001 min
Lab File: 1016_12.D
Acq: 16 Oct 2015 1:36 pm

Tgt Ion: 43 Resp: 5233

Ion	Ratio	Lower	Upper
43	100		
58	27.1	25.0	37.4

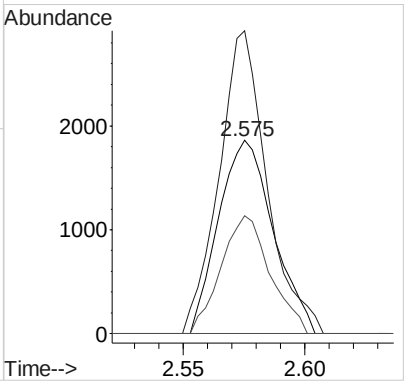


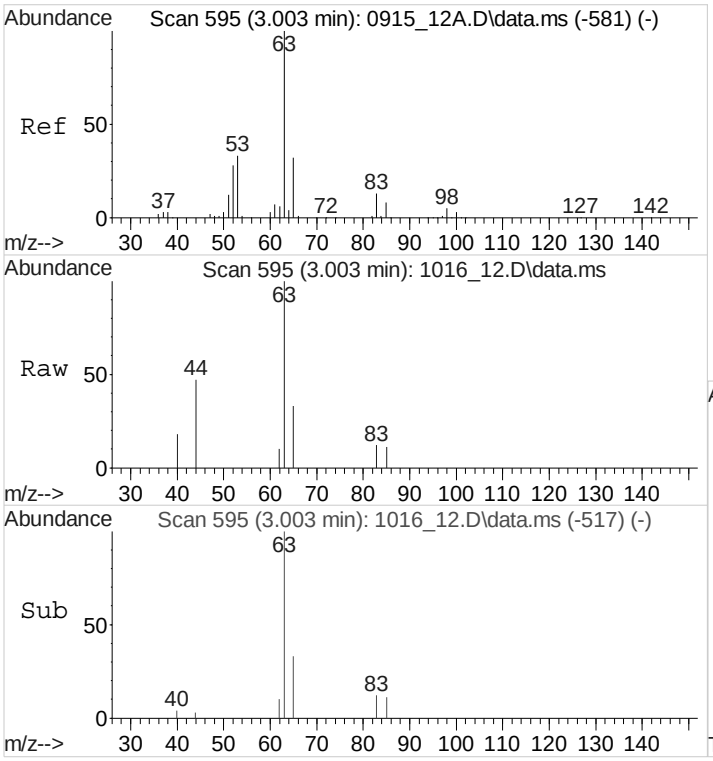


#19
METHYLENE CHLORIDE
Concen: 0.5503004 ppb
RT: 2.575 min Scan# 462
Delta R.T. 0.000 min
Lab File: 1016 12.D
Acq: 16 Oct 2015 1:36 pm

Tgt Ion: 84 Resp: 2910

Ion	Ratio	Lower	Upper
84	100		
49	137.4	115.0	172.4
86	54.7	51.4	77.2

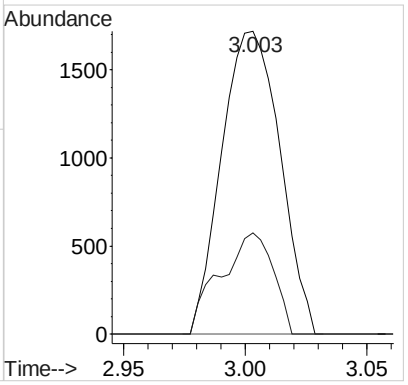


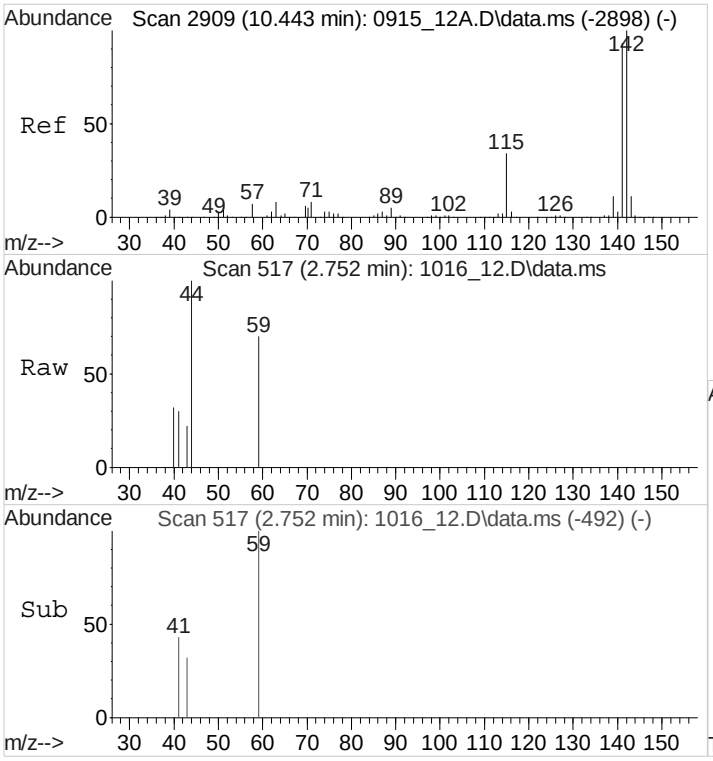


#24
1,1-DICHLOROETHANE
Concen: 0.3051773 ppb
RT: 3.003 min Scan# 595
Delta R.T. -0.000 min
Lab File: 1016_12.D
Acq: 16 Oct 2015 1:36 pm

Tgt Ion: 63 Resp: 2865

Ion	Ratio	Lower	Upper
63	100		
65	30.3	25.9	38.9

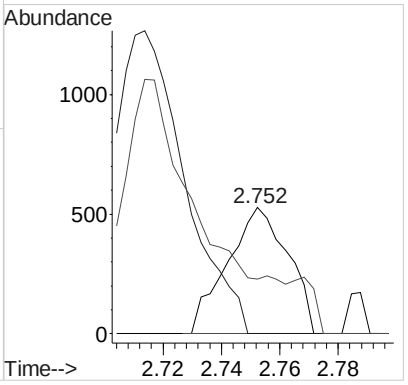


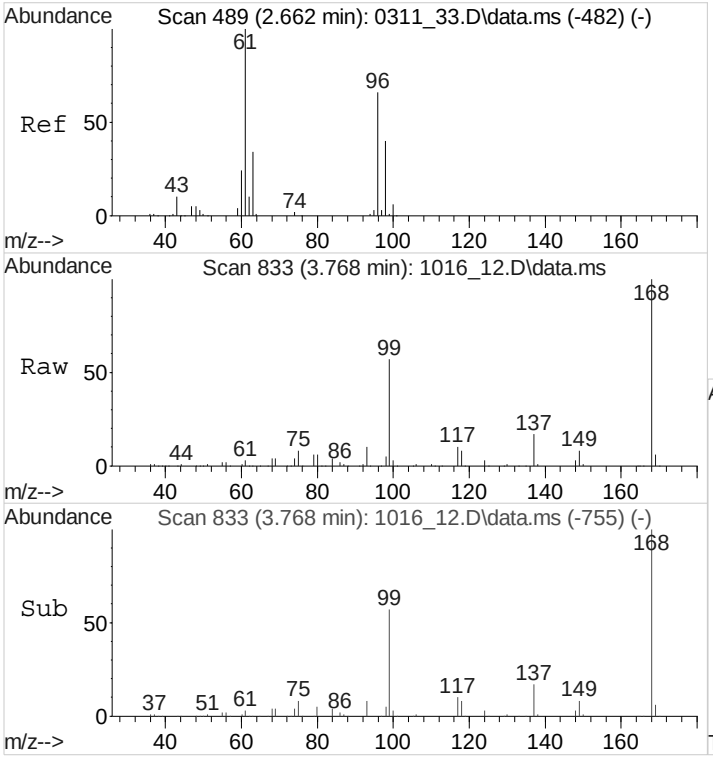


#103
tert-BUTYL ALCOHOL
Concen: 0.8853700 ppb
RT: 2.752 min Scan# 517
Delta R.T. -0.010 min
Lab File: 1016 12.D
Acq: 16 Oct 2015 1:36 pm

Tgt Ion: 59 Resp: 762

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.2#
41	0.0	13.8	20.6#

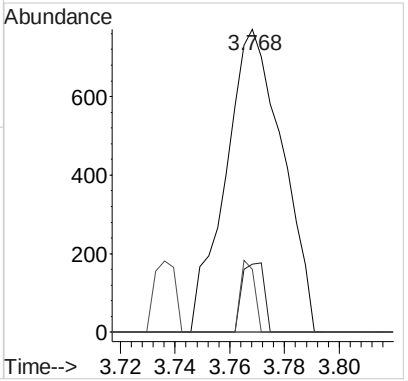


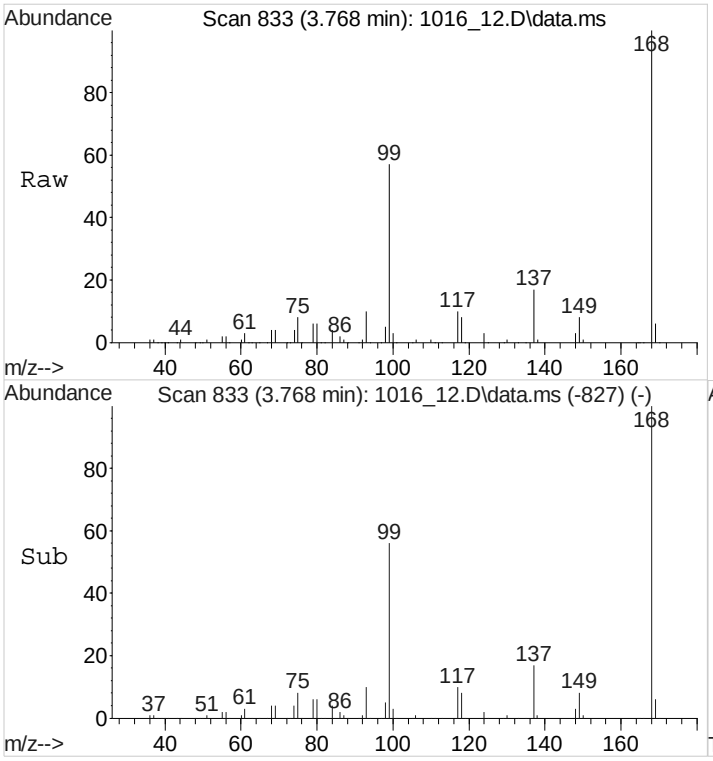


#108
METHACRYLONITRILE
Concen: 0.5728656 ppb
RT: 3.768 min Scan# 833
Delta R.T. -0.000 min
Lab File: 1016_12.D
Acq: 16 Oct 2015 1:36 pm

Tgt Ion: 67 Resp: 1113

Ion	Ratio	Lower	Upper
67	100		
41	0.0	129.0	193.6#
39	0.0	68.3	102.5#
52	0.0	37.0	55.4#

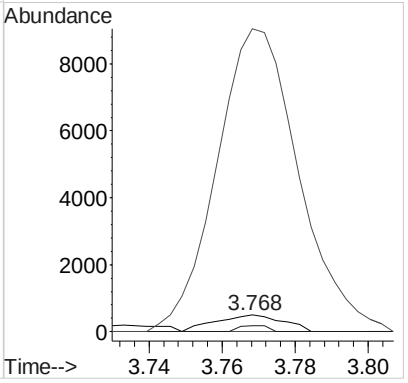


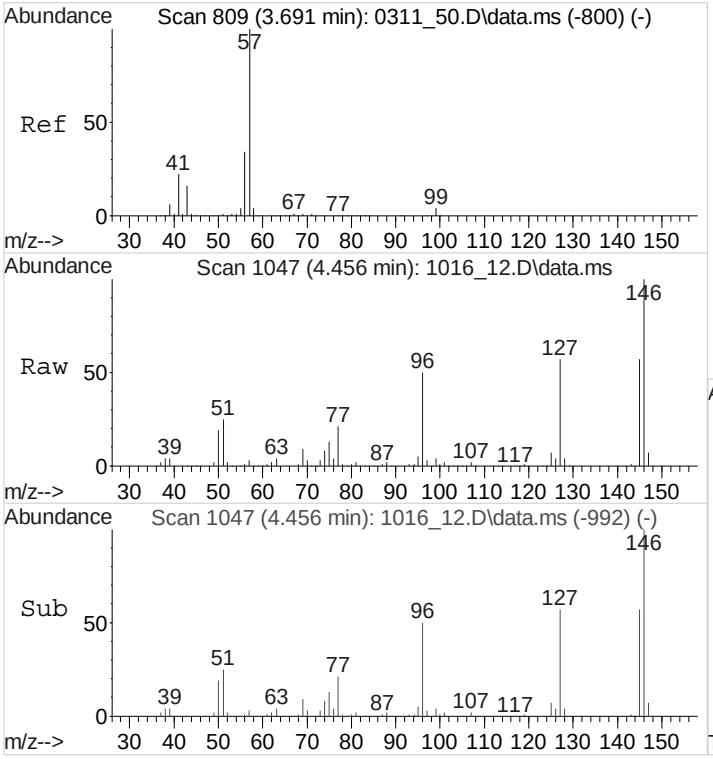


#111
ISOBUTANOL
Concen: 2.0463931 ppb
RT: 3.768 min Scan# 833
Delta R.T. -0.061 min
Lab File: 1016_12.D
Acq: 16 Oct 2015 1:36 pm

Tgt Ion: 43 Resp: 641

Ion	Ratio	Lower	Upper
43	100		
41	0.0	54.1	81.1#
74	2207.6	6.8	10.2#

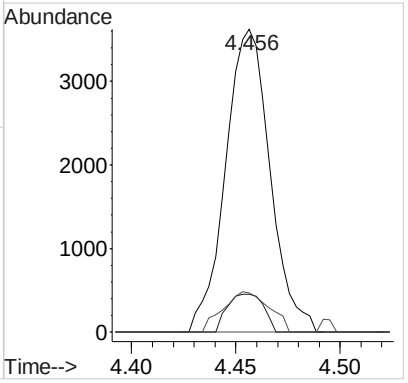




#119
1,4-DIOXANE
Concen: 113.0413077 ppb
RT: 4.456 min Scan# 1047
Delta R.T. -0.074 min
Lab File: 1016_12.D
Acq: 16 Oct 2015 1:36 pm

Tgt Ion: 88 Resp: 5372

Ion	Ratio	Lower	Upper
88	100		
58	10.2	53.9	80.9#
43	13.9	0.0	0.0#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 13.D
Acq On : 16 Oct 2015 1:55 pm
Operator : 189
Sample : MS 1x WG822246 L793892-06
Misc : water IS/SURR15A20860/spk15J11487
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:09:49 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	3.772	168	376827	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	623753	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.228	79	107614	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	300583	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	3.772	168	376827	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.087	114	623753	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.228	79	107614	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	300583	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.531	111	222215	39.1451028	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 97.86%				
46) a,a,a-Trifluorotoluene	4.457	146	333942	41.5150393	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.79%				
50) TOLUENE-D8	4.910	98	761481	41.7625611	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.41%				
68) 4-BROMOFLUOROBENZENE	6.781	95	281846	41.7044486	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.26%				
Target Compounds							Qvalue
3) PROPENE	1.354	41	9229	11.3491425	ppb		100
4) DICHLORODIFLUOROMETHANE	1.389	85	90093	18.3706655	ppb		99
5) CHLOROMETHANE	1.524	50	95996	13.4737566	ppb		99
6) VINYL CHLORIDE	1.585	62	100560	17.9170309	ppb		99
7) 1,3-BUTADIENE	1.592	39	69993	18.9569322	ppb		100
8) BROMOMETHANE	1.798	94	75872	18.3357010	ppb		99
9) CHLOROETHANE	1.878	64	54899	19.1935942	ppb		99
10) TRICHLOROFLUOROMETHANE	1.958	101	152854	22.0742974	ppb		100
11) DICHLOROFLUOROMETHANE	1.994	67	220412	25.2649895	ppb		100
12) ETHYL ETHER	2.132	59	135992	41.7010121	ppb		99
13) ACROLEIN	2.434	56	79393	141.8741289	ppb		94
14) 1,1-DICHLOROETHENE	2.257	61	141930	21.6499073	ppb		95
15) 1,1,2-TRICHLOROTRIFLUO...	2.289	101	87535	22.0572607	ppb		95
16) ACETONE	2.595	43	177325	76.9404792	ppb		94
17) IODOMETHANE	2.344	142	807639	92.3618979	ppb		96
18) CARBON DISULFIDE	2.286	76	228611	14.7741770	ppb	#	96
19) METHYLENE CHLORIDE	2.576	84	102290	19.2445953	ppb		100
20) ACRYLONITRILE	3.016	53	205799	116.0034881	ppb		97
21) n-Hexane	2.714	56	72160	16.0023794	ppb		95
22) TRANS-1,2-DICHLOROETHENE	2.672	96	88151	18.2640699	ppb		99
23) METHYL TERT-BUTYL ETHER	2.724	73	276155	22.3820788	ppb	#	76
24) 1,1-DICHLOROETHANE	3.003	63	193598	20.5162128	ppb		100
25) VINYL ACETATE	3.116	43	1242355	117.4326236	ppb		99
26) DI-ISOPROPYL ETHER	2.923	45	364904	20.4681316	ppb		93
27) 2,2-Dichloropropane	3.357	77	130841	22.7035612	ppb		100
28) CIS-1,2-DICHLOROETHENE	3.293	96	102052	19.1526704	ppb		97
29) 2-BUTANONE (MEK)	3.585	43	296081	89.1104716	ppb		96
30) BROMOCHLOROMETHANE	3.402	130	63880	19.9839801	ppb		96
31) TETRAHYDROFURAN	3.527	42	40773	24.0431841	ppb		95
32) CHLOROFORM	3.431	83	191812	21.4211402	ppb		100
34) 1,1,1-TRICHLOROETHANE	3.563	97	149922	21.9477705	ppb		99
35) CARBON TETRACHLORIDE	3.531	117	154806	21.2370113	ppb		99
36) 1,1-Dichloropropene	3.627	75	123654	18.7961057	ppb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 13.D
Acq On : 16 Oct 2015 1:55 pm
Operator : 189
Sample : MS 1x WG822246 L793892-06
Misc : water IS/SURR15A20860/spk15J11487
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:09:49 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	3.685	57	359828	17.8750062 ppb		95
38)	HEPTANE	3.730	43	137400	14.6170306 ppb		98
39)	BENZENE	3.762	78	365829	17.9692705 ppb		97
40)	1,2-DICHLOROETHANE	3.868	62	151290	23.5129950 ppb		97
42)	TRICHLOROETHENE	4.087	130	97837	20.4890236 ppb		99
43)	1,2-DICHLOROPROPANE	4.386	62	82827	20.9397371 ppb		98
44)	DIBROMOMETHANE	4.328	93	71743	22.0395587 ppb		99
45)	BROMODICHLOROMETHANE	4.415	83	158279	23.6966587 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	4.736	63	2850	1.0600550 ppb	#	93
48)	CIS-1,3-DICHLOROPROPENE	4.788	75	176627	21.5837640 ppb		99
49)	4-METHYL-2-PENTANONE (...	5.154	43	648187	118.7050437 ppb		100
51)	TOLUENE	4.942	91	402740	19.7265814 ppb		98
52)	TRANS-1,3-DICHLOROPROPENE	5.190	75	168939	23.3265112 ppb		99
54)	1,1,2-TRICHLOROETHANE	5.296	97	96226	22.7334328 ppb		98
55)	TETRACHLOROETHENE	5.199	164	74833	20.7099788 ppb		98
56)	1,3-Dichloropropane	5.479	76	155019	20.6644097 ppb		98
57)	2-HEXANONE	5.698	58	261258	117.4801208 ppb		99
58)	CHLORODIBROMOMETHANE	5.421	129	115733	23.6546626 ppb		99
59)	1,2-DIBROMOETHANE	5.588	107	100770	21.7720582 ppb		100
60)	CHLOROBENZENE	5.936	112	276392	21.7968389 ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	5.974	133	98857	22.8682473 ppb	#	97
62)	ETHYLBENZENE	5.945	106	141483	21.7553630 ppb		99
63)	M&P-XYLENE	6.045	106	333524	40.2373778 ppb		99
64)	O-XYLENE	6.347	106	168087	21.2091268 ppb		98
65)	STYRENE	6.383	104	282559	21.5485099 ppb		99
66)	Bromoform	6.408	173	74955	24.0185126 ppb		99
67)	Isopropylbenzene	6.572	105	443775	21.7765274 ppb		98
69)	Bromobenzene	6.868	77	207094	21.2835715 ppb		98
70)	1,1,2,2-TETRACHLOROETHANE	6.913	83	153341	24.1453658 ppb		98
71)	1,2,3-TRICHLOROPROPANE	7.022	110	35432	25.4237744 ppb		98
72)	TRANS-1,4-DICHLORO-2-B...	7.045	53	42173	26.4112558 ppb		98
73)	n-Propylbenzene	6.874	91	556397	21.8441198 ppb		99
74)	4-ETHYLTOLUENE	6.955	105	439492	21.0811602 ppb		100
75)	2-Chlorotoluene	7.000	126	109104	22.0048988 ppb		85
76)	4-Chlorotoluene	7.122	91	343176	22.8858916 ppb		99
77)	1,3,5-Trimethylbenzene	7.016	105	372337	22.3065522 ppb		98
78)	tert-Butylbenzene	7.260	119	303003	22.5387620 ppb		98
79)	1,2,4-Trimethylbenzene	7.315	105	379903	22.5198978 ppb		99
80)	sec-Butylbenzene	7.399	105	494874	22.5774023 ppb		100
81)	1,3-DICHLOROBENZENE	7.575	146	218475	23.0347962 ppb		99
82)	p-Isopropyltoluene	7.505	119	420341	23.8855701 ppb		100
83)	DICYCLOPENTADIENE	7.498	66	486048	20.8932497 ppb		99
85)	1,4-DICHLOROBENZENE	7.640	146	223081	20.7775737 ppb		86
86)	1,2,3-TRIMETHYLBENZENE	7.653	105	389732	20.8885688 ppb		98
87)	1,2-DICHLOROBENZENE	7.971	146	205969	21.2384923 ppb		99
88)	n-Butylbenzene	7.836	91	413733	22.2957069 ppb		99
89)	1,2-Dibromo-3-chloropr...	8.608	157	26331	24.0179336 ppb		95
90)	1,2,4-Trichlorobenzene	9.170	180	138206	22.8401539 ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.151	225	72908	22.3336990 ppb		99
92)	Naphthalene	9.437	128	344702	22.4276219 ppb		100
93)	1,2,3-Trichlorobenzene	9.595	180	122257	21.6435922 ppb		100
94)	1-Methylnaphthalene	10.321	142	153270	20.1468021 ppb		96
95)	2-Methylnaphthalene	10.443	142	130427	20.6891750 ppb		98
100)	Methyl Acetate	2.662	43	8123	2.1596639 ppb	#	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 13.D
Acq On : 16 Oct 2015 1:55 pm
Operator : 189
Sample : MS 1x WG822246 L793892-06
Misc : water IS/SURR15A20860/spk15J11487
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS25

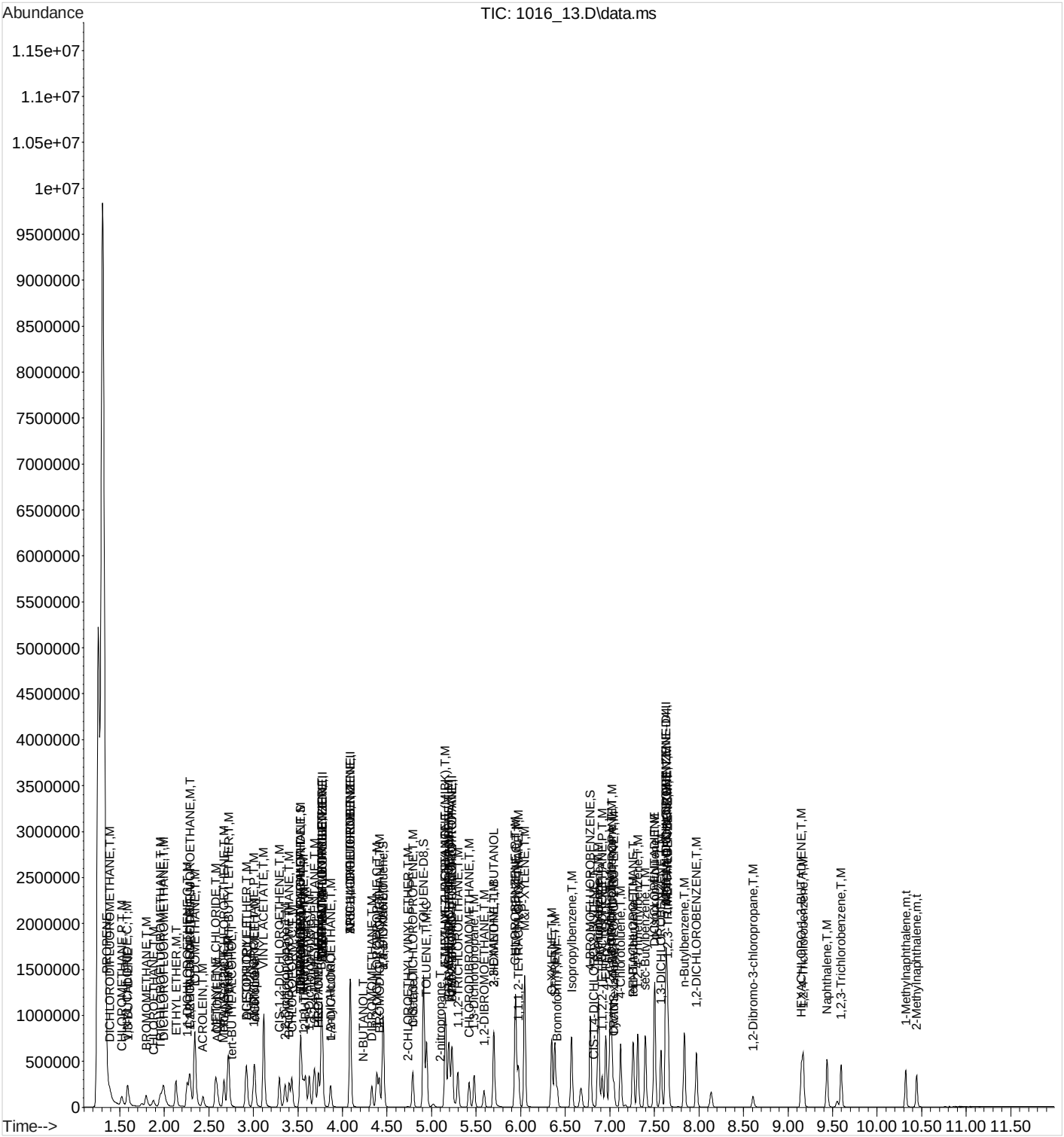
Quant Time: Oct 17 10:09:49 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
101) ACETONITRILE	2.923	41	59228	96.9112416 ppb	#	34
103) tert-BUTYL ALCOHOL	2.756	59	2953	3.4135169 ppb	#	65
104) chloroprene	3.016	53	205799	30.0466820 ppb	#	23
106) PROPIONITRILE	3.730	54	1440	2.0860592 ppb	#	1
107) Ethyl Acetate	3.527	43	7818	1.5447818 ppb	#	76
108) METHACRYLONITRILE	3.768	67	1242	0.6359866 ppb	#	1
112) t-Amyl Alcohol	3.865	59	912	2.2349235 ppb	#	24
113) TERT-AMYL METHYL ETHER	3.765	73	7190	0.4744450 ppb	#	1
115) N-BUTANOL	4.235	56	1288	8.8667857 ppb	#	37
117) 2-nitropropane	5.100	43	870	0.6189493 ppb	#	17
119) 1,4-DIOXANE	4.457	88	4815	103.1024651 ppb	#	16
120) n-octane	4.788	85	2407	0.6434352 ppb	#	20
121) 3,3-DIMETHYL-1-BUTANOL	5.698	57	84204	130.6063666 ppb	#	40
123) ETHYL METHACRYLATE	5.154	69	4538	0.8190759 ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	6.817	53	1943	1.1920475 ppb	#	16
125) Cyclohexanone	7.045	55	900	0.6723868 ppb	#	22
126) PENTACHLOROETHANE	7.260	117	12896	4.0352922 ppb	#	19

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

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 13.D
Acq On : 16 Oct 2015 1:55 pm
Operator : 189
Sample : MS 1x WG822246 L793892-06
Misc : water IS/SURR15A20860/spk15J11487
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:09:49 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 14.D
Acq On : 16 Oct 2015 2:13 pm
Operator : 189
Sample : MSD 1x WG822246 L793892-06
Misc : water IS/SURR15A20860/spk15J11487
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:09:54 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	3.772	168	371159	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	610191	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.231	79	104471	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	293818	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.772	168	371159	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.087	114	610191	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.231	79	104471	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	293818	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.530	111	218304	39.0434132	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 97.61%			
46) a,a,a-Trifluorotoluene	4.456	146	332029	42.1946391	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 105.49%			
50) TOLUENE-D8	4.910	98	747560	41.9103181	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.78%			
68) 4-BROMOFLUOROBENZENE	6.781	95	275350	41.9689991	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.92%			
Target Compounds						Qvalue
3) PROPENE	1.354	41	9904	12.6278295	ppb #	89
4) DICHLORODIFLUOROMETHANE	1.389	85	100248	20.7535108	ppb	97
5) CHLOROMETHANE	1.521	50	108139	15.4099037	ppb	98
6) VINYL CHLORIDE	1.585	62	115116	20.8237282	ppb	100
7) 1,3-BUTADIENE	1.588	39	82508	22.6877550	ppb	97
8) BROMOMETHANE	1.797	94	81336	19.9563363	ppb	99
9) CHLOROETHANE	1.878	64	62321	22.1211808	ppb	98
10) TRICHLOROFLUOROMETHANE	1.958	101	171203	25.1017193	ppb	100
11) DICHLOROFLUOROMETHANE	1.993	67	245203	28.5359071	ppb	100
12) ETHYL ETHER	2.132	59	143866	44.7892118	ppb	99
13) ACROLEIN	2.434	56	77096	139.8733118	ppb	97
14) 1,1-DICHLOROETHENE	2.257	61	158476	24.5429835	ppb	93
15) 1,1,2-TRICHLOROTRIFLUO...	2.289	101	100388	25.6822849	ppb	98
16) ACETONE	2.595	43	176140	77.5934259	ppb	94
17) IODOMETHANE	2.341	142	889205	103.2427298	ppb	95
18) CARBON DISULFIDE	2.286	76	255219	16.7456185	ppb	96
19) METHYLENE CHLORIDE	2.575	84	108909	20.8027807	ppb	99
20) ACRYLONITRILE	3.016	53	212726	121.7391819	ppb	99
21) n-Hexane	2.717	56	81580	18.3676568	ppb	98
22) TRANS-1,2-DICHLOROETHENE	2.672	96	94774	19.9361616	ppb	99
23) METHYL TERT-BUTYL ETHER	2.723	73	290254	23.8840372	ppb	83
24) 1,1-DICHLOROETHANE	3.003	63	212792	22.8946307	ppb	100
25) VINYL ACETATE	3.116	43	1326342	127.2859858	ppb	100
26) DI-ISOPROPYL ETHER	2.923	45	394714	22.4783342	ppb	96
27) 2,2-Dichloropropane	3.357	77	144981	25.5413141	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.292	96	116701	22.2363965	ppb	98
29) 2-BUTANONE (MEK)	3.585	43	296060	90.4648682	ppb	96
30) BROMOCHLOROMETHANE	3.402	130	73583	23.3709619	ppb	98
31) TETRAHYDROFURAN	3.527	42	39973	23.9313983	ppb	91
32) CHLOROFORM	3.431	83	221263	25.0875138	ppb	100
34) 1,1,1-TRICHLOROETHANE	3.563	97	168017	24.9724002	ppb	99
35) CARBON TETRACHLORIDE	3.530	117	174111	24.2501168	ppb	99
36) 1,1-Dichloropropene	3.627	75	145337	22.4294135	ppb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 14.D
Acq On : 16 Oct 2015 2:13 pm
Operator : 189
Sample : MSD 1x WG822246 L793892-06
Misc : water IS/SURR15A20860/spk15J11487
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:09:54 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	3.685	57	408437	20.5995788	ppb		96
38)	HEPTANE	3.730	43	159249	17.2001073	ppb		99
39)	BENZENE	3.762	78	410217	20.4572846	ppb		98
40)	1,2-DICHLOROETHANE	3.868	62	158684	25.0387639	ppb		98
42)	TRICHLOROETHENE	4.087	130	108921	23.3172111	ppb		99
43)	1,2-DICHLOROPROPANE	4.386	62	90949	23.5041241	ppb		99
44)	DIBROMOMETHANE	4.331	93	79586	24.9923381	ppb		99
45)	BROMODICHLOROMETHANE	4.415	83	171512	26.2485415	ppb		98
47)	2-CHLOROETHYL VINYL ETHER	4.736	63	1775	0.6748834	ppb	#	50
48)	CIS-1,3-DICHLOROPROPENE	4.791	75	195181	24.3811664	ppb		100
49)	4-METHYL-2-PENTANONE (...	5.154	43	679897	127.2796083	ppb		100
51)	TOLUENE	4.942	91	449554	22.5089781	ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.189	75	188230	26.5677981	ppb		97
54)	1,1,2-TRICHLOROETHANE	5.296	97	104976	25.5467483	ppb		99
55)	TETRACHLOROETHENE	5.199	164	85158	24.2764385	ppb		98
56)	1,3-Dichloropropane	5.476	76	174097	23.9057505	ppb		98
57)	2-HEXANONE	5.697	58	267989	124.1322929	ppb		97
58)	CHLORODIBROMOMETHANE	5.421	129	125394	26.4003282	ppb		99
59)	1,2-DIBROMOETHANE	5.588	107	108732	24.1990673	ppb		99
60)	CHLOROBENZENE	5.935	112	300584	24.4178222	ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	5.974	133	109810	26.1661825	ppb	#	98
62)	ETHYLBENZENE	5.945	106	154069	24.4034012	ppb		96
63)	M&P-XYLENE	6.045	106	378930	47.0906400	ppb		97
64)	O-XYLENE	6.347	106	187809	24.4105793	ppb		98
65)	STYRENE	6.382	104	320849	25.2047161	ppb		99
66)	Bromoform	6.408	173	80660	26.6242106	ppb		99
67)	Isopropylbenzene	6.572	105	494282	24.9846696	ppb		99
69)	Bromobenzene	6.868	77	232463	24.6095601	ppb		98
70)	1,1,2,2-TETRACHLOROETHANE	6.913	83	160979	26.1106538	ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.022	110	37603	27.7932847	ppb		97
72)	TRANS-1,4-DICHLORO-2-B...	7.045	53	45832	29.5662597	ppb		95
73)	n-Propylbenzene	6.874	91	627049	25.3585415	ppb		99
74)	4-ETHYLTOLUENE	6.955	105	490505	24.2359471	ppb		99
75)	2-Chlorotoluene	7.000	126	120560	25.0469567	ppb		85
76)	4-Chlorotoluene	7.122	91	370666	25.4628318	ppb		99
77)	1,3,5-Trimethylbenzene	7.016	105	421686	26.0230658	ppb		98
78)	tert-Butylbenzene	7.260	119	344995	26.4343693	ppb		99
79)	1,2,4-Trimethylbenzene	7.315	105	409830	25.0247911	ppb		99
80)	sec-Butylbenzene	7.398	105	574503	26.9988122	ppb		99
81)	1,3-DICHLOROBENZENE	7.575	146	238218	25.8720131	ppb		100
82)	p-Isopropyltoluene	7.505	119	451294	26.4159626	ppb		99
83)	DICYCLOPENTADIENE	7.498	66	525315	23.2605328	ppb		100
85)	1,4-DICHLOROBENZENE	7.643	146	238239	22.7002752	ppb		95
86)	1,2,3-TRIMETHYLBENZENE	7.652	105	422708	23.1776341	ppb		99
87)	1,2-DICHLOROBENZENE	7.971	146	235378	24.8298278	ppb		100
88)	n-Butylbenzene	7.836	91	476972	26.2954124	ppb		99
89)	1,2-Dibromo-3-chloropr...	8.607	157	28062	26.1862267	ppb		96
90)	1,2,4-Trichlorobenzene	9.170	180	151084	25.5432773	ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.151	225	81120	25.4213982	ppb		97
92)	Naphthalene	9.437	128	359365	23.9200023	ppb		100
93)	1,2,3-Trichlorobenzene	9.598	180	132353	23.9704073	ppb		99
94)	1-Methylnaphthalene	10.321	142	176037	23.6722173	ppb		97
95)	2-Methylnaphthalene	10.443	142	143761	23.3293571	ppb		99
100)	Methyl Acetate	2.659	43	6550	1.7680439	ppb	#	72

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 14.D
Acq On : 16 Oct 2015 2:13 pm
Operator : 189
Sample : MSD 1x WG822246 L793892-06
Misc : water IS/SURR15A20860/spk15J11487
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS25

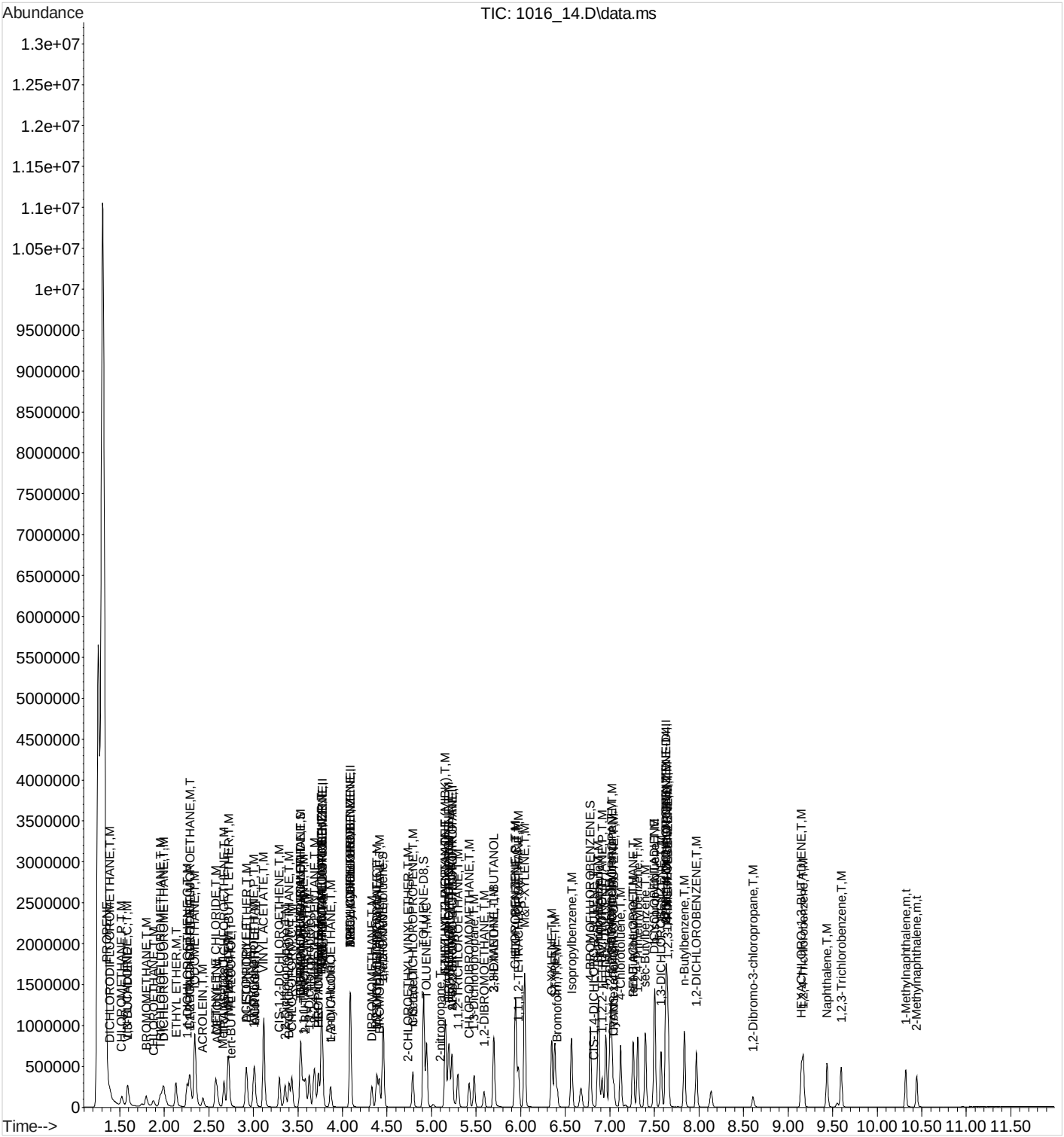
Quant Time: Oct 17 10:09:54 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
101) ACETONITRILE	2.919	41	63087	104.8018581 ppb	#	35
103) tert-BUTYL ALCOHOL	2.752	59	4111	4.8246754 ppb	#	65
104) chloroprene	3.016	53	212726	31.5323146 ppb	#	23
106) PROPIONITRILE	3.730	54	1550	2.2797007 ppb	#	1
108) METHACRYLONITRILE	3.768	67	1274	0.6623352 ppb	#	1
112) t-Amyl Alcohol	3.865	59	1249	3.1075081 ppb	#	24
113) TERT-AMYL METHYL ETHER	3.762	73	7667	0.5136467 ppb	#	1
116) Methyl Cyclohexane	4.087	83	9636	0.3123310 ppb	#	44
117) 2-nitropropane	5.099	43	687	0.4996195 ppb	#	17
118) METHYL METHACRYLATE	4.386	41	70568	14.7966873 ppb	#	21
119) 1,4-DIOXANE	4.453	88	4483	98.1269603 ppb	#	16
120) n-octane	4.788	85	2736	0.7476385 ppb	#	23
121) 3,3-DIMETHYL-1-BUTANOL	5.697	57	86575	137.2685276 ppb	#	39
123) ETHYL METHACRYLATE	5.154	69	4126	0.7671175 ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	6.816	53	1677	1.0598071 ppb	#	16
125) Cyclohexanone	7.038	55	911	0.7010807 ppb	#	22
126) PENTACHLOROETHANE	7.260	117	13103	4.2234147 ppb	#	13

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

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 14.D
Acq On : 16 Oct 2015 2:13 pm
Operator : 189
Sample : MSD 1x WG822246 L793892-06
Misc : water IS/SURR15A20860/spk15J11487
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:09:54 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 17.D
Acq On : 16 Oct 2015 3:08 pm
Operator : 189
Sample : L793892-01 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS25

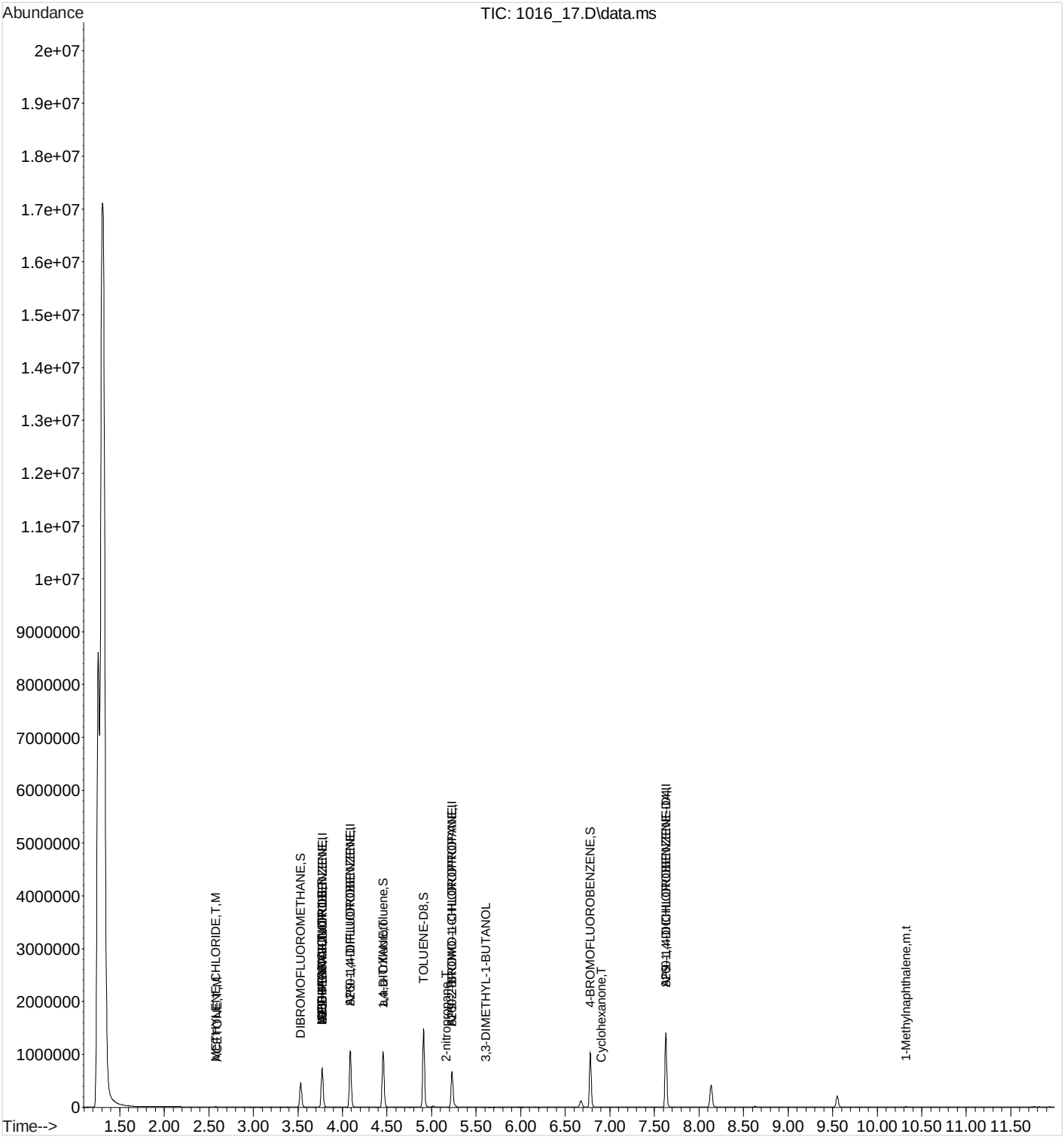
Quant Time: Oct 17 10:18:44 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

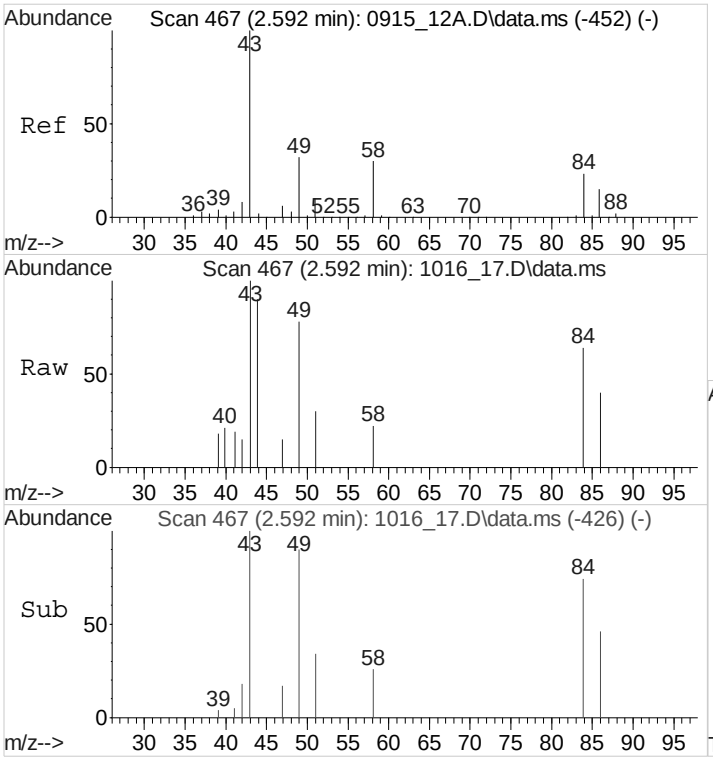
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	3.772	168	389815	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	667034	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.228	79	113923	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	314027	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	3.772	168	389815	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.087	114	667034	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.228	79	113923	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	314027	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.531	111	227406	38.7248240	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 96.81%				
46) a,a,a-Trifluorotoluene	4.457	146	354085	41.1629617	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.91%				
50) TOLUENE-D8	4.910	98	798251	40.9385258	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.35%				
68) 4-BROMOFLUOROBENZENE	6.781	95	296167	41.3965869	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.49%				
Target Compounds							Qvalue
16) ACETONE	2.592	43	2872	1.2046276	ppb	#	78
19) METHYLENE CHLORIDE	2.576	84	3449	0.6272667	ppb		97
94) 1-Methylnaphthalene	10.321	142	3113	0.3916747	ppb		94
108) METHACRYLONITRILE	3.768	67	1053	0.5212406	ppb	#	1
111) ISOBUTANOL	3.768	43	525	1.6119167	ppb	#	1
117) 2-nitropropane	5.161	43	790	0.5255664	ppb	#	17
119) 1,4-DIOXANE	4.453	88	4859	97.2936133	ppb	#	16
121) 3,3-DIMETHYL-1-BUTANOL	5.608	57	1451	2.1045716	ppb	#	43
125) Cyclohexanone	6.903	55	812	0.5730467	ppb	#	22

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

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 17.D
Acq On : 16 Oct 2015 3:08 pm
Operator : 189
Sample : L793892-01 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 17 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:18:44 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

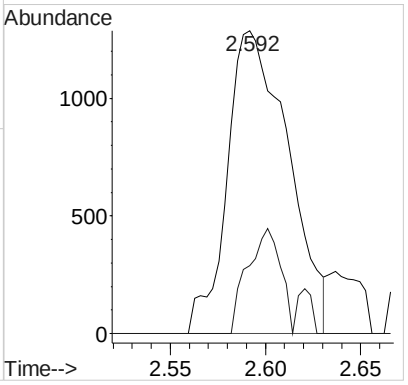


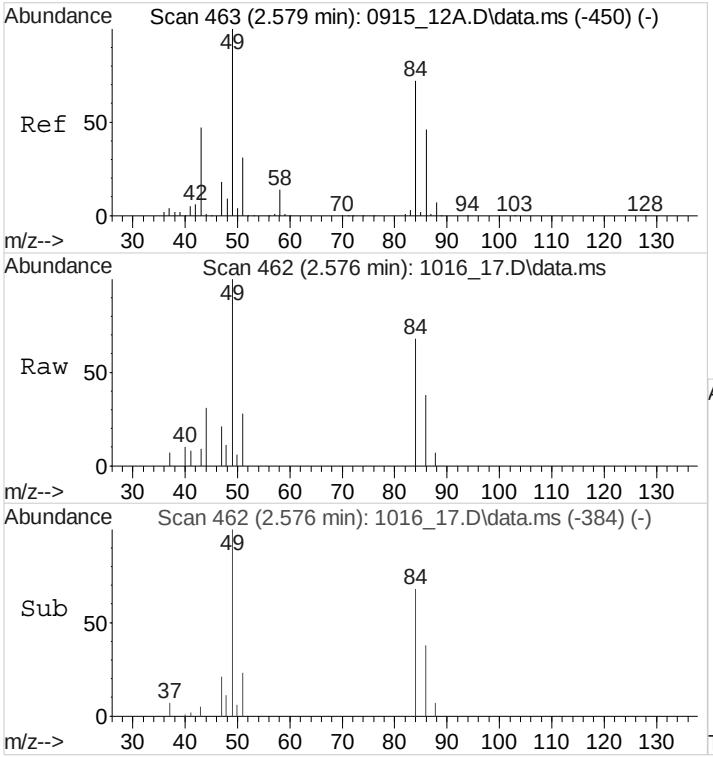


#16
ACETONE
Concen: 1.2046276 ppb
RT: 2.592 min Scan# 467
Delta R.T. 0.001 min
Lab File: 1016 17.D
Acq: 16 Oct 2015 3:08 pm

Tgt Ion: 43 Resp: 2872

Ion	Ratio	Lower	Upper
43	100		
58	18.8	25.0	37.4#

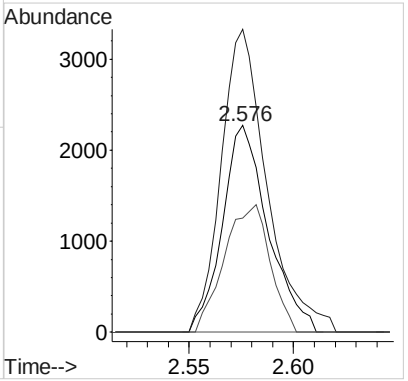


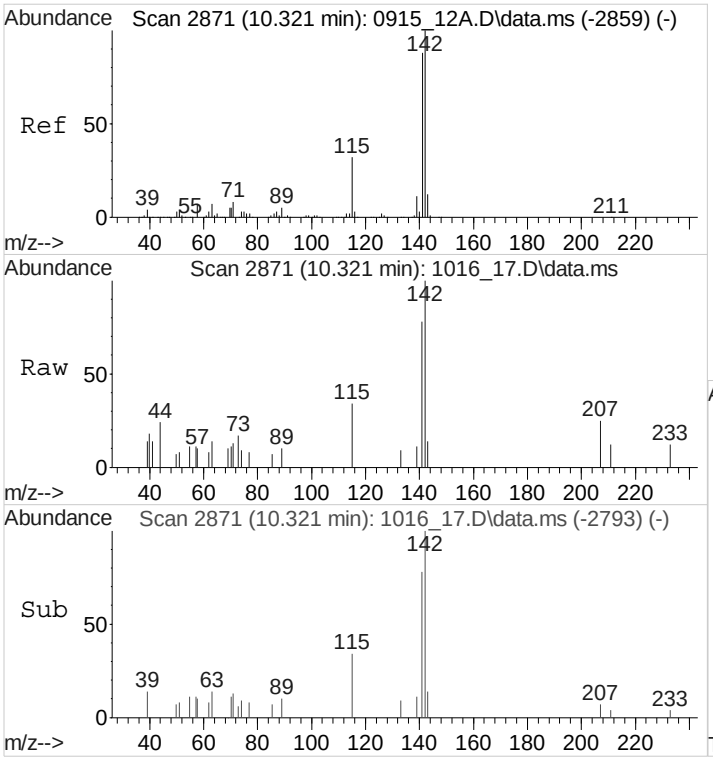


#19
METHYLENE CHLORIDE
Concen: 0.6272667 ppb
RT: 2.576 min Scan# 462
Delta R.T. 0.001 min
Lab File: 1016_17.D
Acq: 16 Oct 2015 3:08 pm

Tgt Ion: 84 Resp: 3449

Ion	Ratio	Lower	Upper
84	100		
49	147.3	115.0	172.4
86	61.7	51.4	77.2

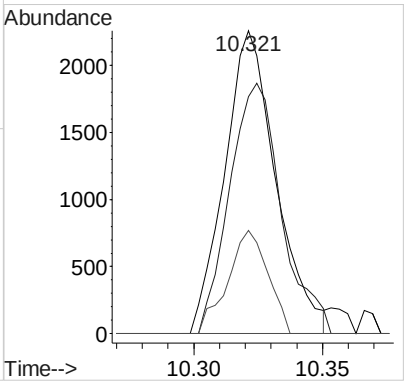


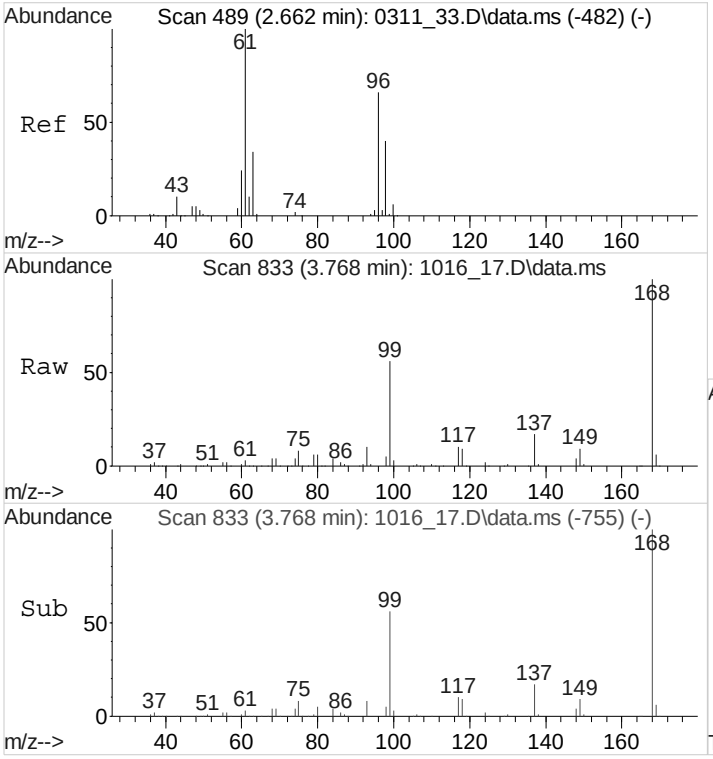


#94
1-Methylnaphthalene
Concen: 0.3916747 ppb
RT: 10.321 min Scan# 2871
Delta R.T. 0.000 min
Lab File: 1016 17.D
Acq: 16 Oct 2015 3:08 pm

Tgt Ion:142 Resp: 3113

Ion	Ratio	Lower	Upper
142	100		
141	83.5	70.0	105.0
115	26.8	25.6	38.4

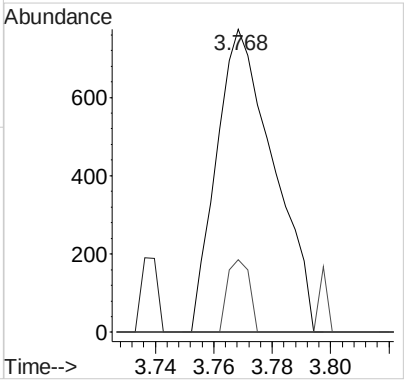


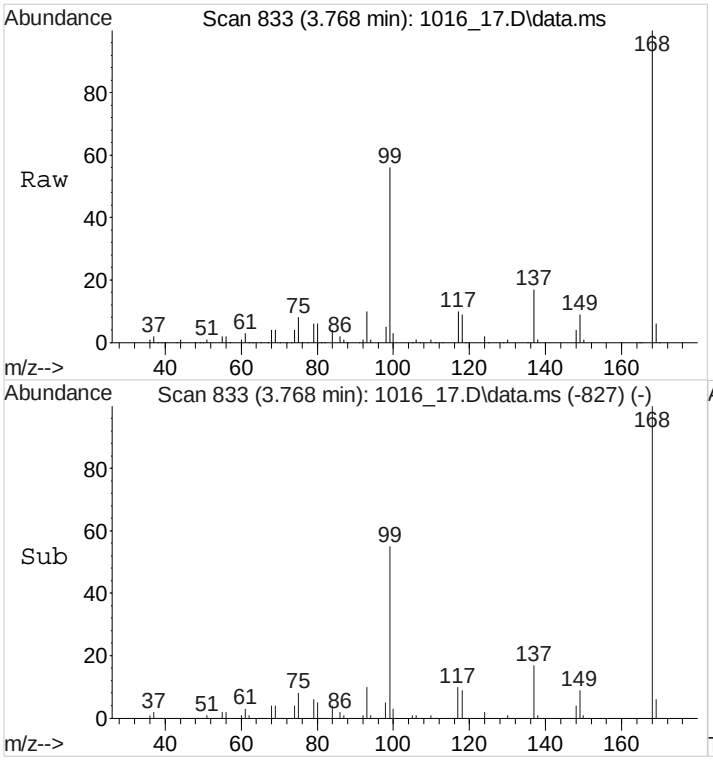


#108
METHACRYLONITRILE
Concen: 0.5212406 ppb
RT: 3.768 min Scan# 833
Delta R.T. 0.000 min
Lab File: 1016_17.D
Acq: 16 Oct 2015 3:08 pm

Tgt Ion: 67 Resp: 1053

Ion	Ratio	Lower	Upper
67	100		
41	0.0	129.0	193.6#
39	0.0	68.3	102.5#
52	0.0	37.0	55.4#

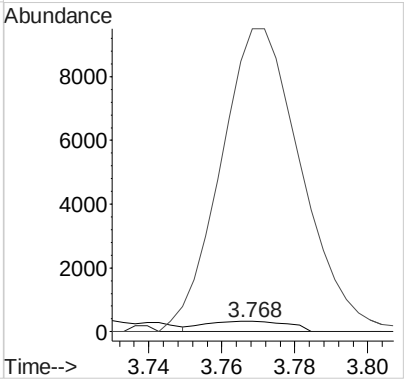


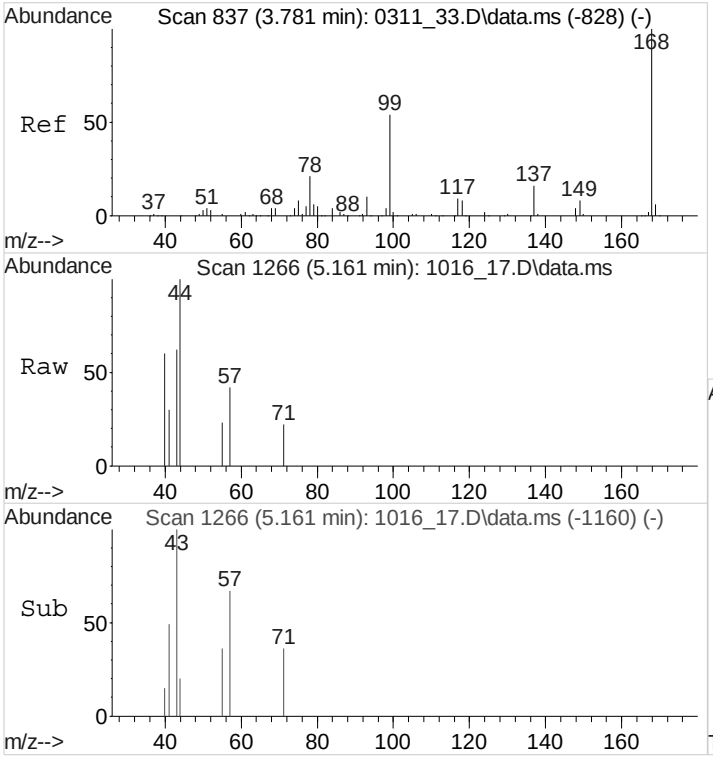


#111
ISOBUTANOL
Concen: 1.6119167 ppb
RT: 3.768 min Scan# 833
Delta R.T. -0.061 min
Lab File: 1016 17.D
Acq: 16 Oct 2015 3:08 pm

Tgt Ion: 43 Resp: 525

Ion	Ratio	Lower	Upper
43	100		
41	0.0	54.1	81.1#
74	2801.3	6.8	10.2#

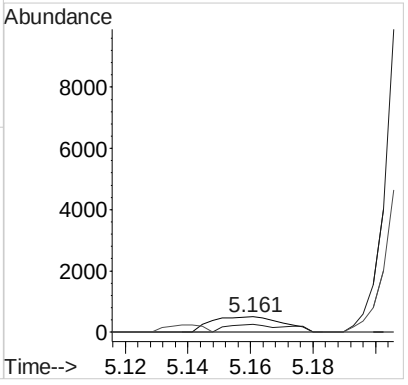


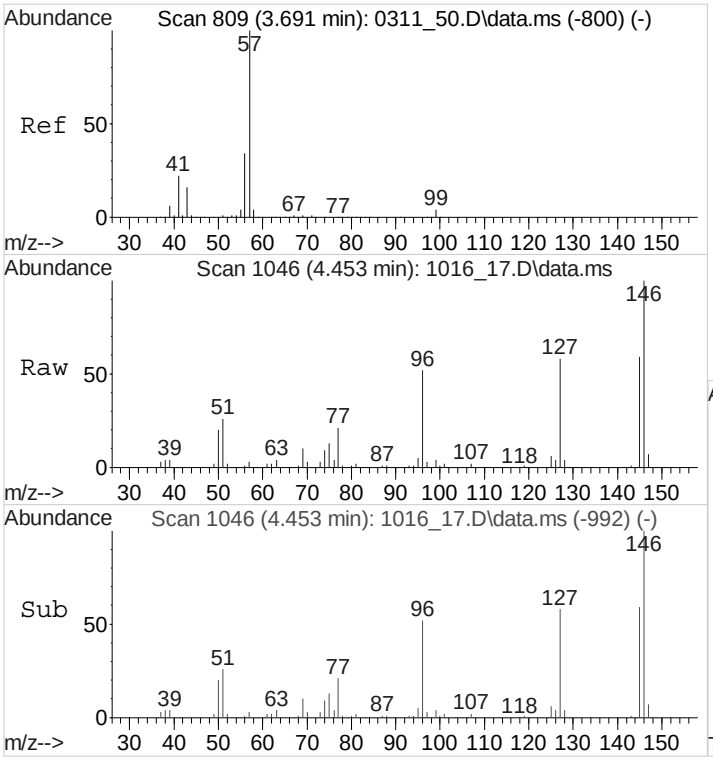


#117
2-nitropropane
Concen: 0.5255664 ppb
RT: 5.161 min Scan# 1266
Delta R.T. 0.090 min
Lab File: 1016_17.D
Acq: 16 Oct 2015 3:08 pm

Tgt Ion: 43 Resp: 790

Ion	Ratio	Lower	Upper
43	100		
41	0.0	67.8	101.8#
39	0.0	23.6	35.4#

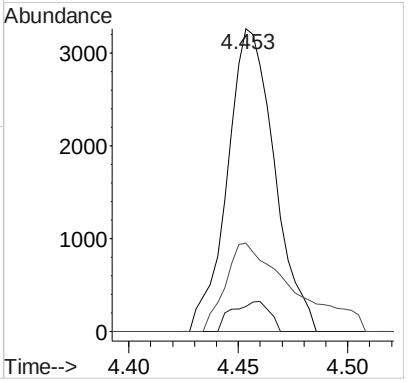


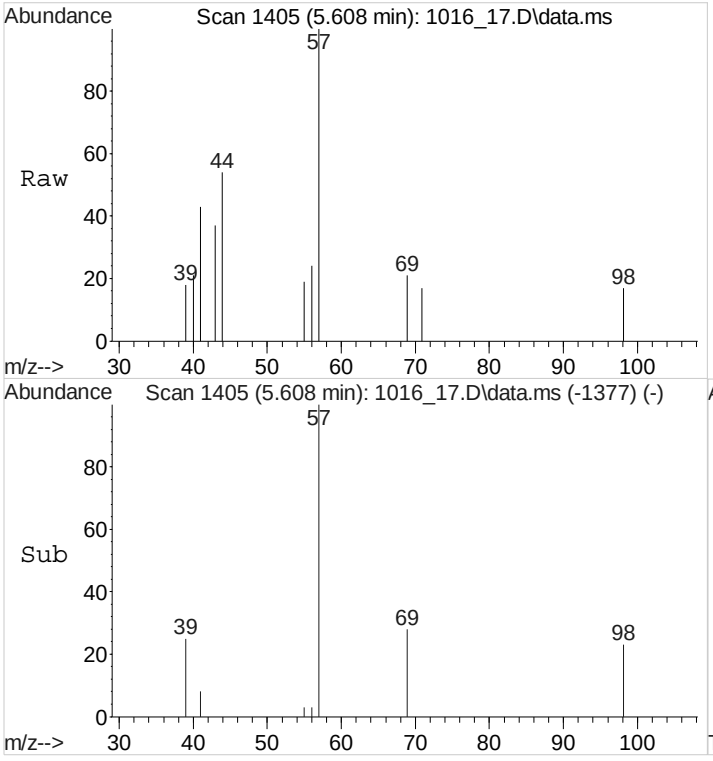


#119
1,4-DIOXANE
Concen: 97.2936133 ppb
RT: 4.453 min Scan# 1046
Delta R.T. -0.077 min
Lab File: 1016 17.D
Acq: 16 Oct 2015 3:08 pm

Tgt Ion: 88 Resp: 4859

Ion	Ratio	Lower	Upper
88	100		
58	0.0	53.9	80.9#
43	42.3	0.0	0.0#

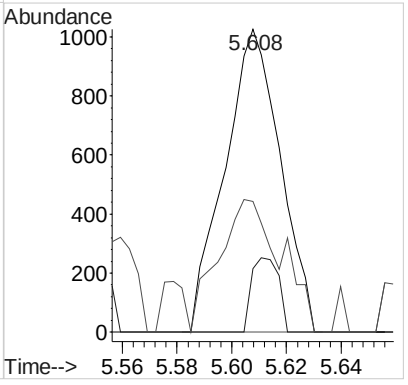


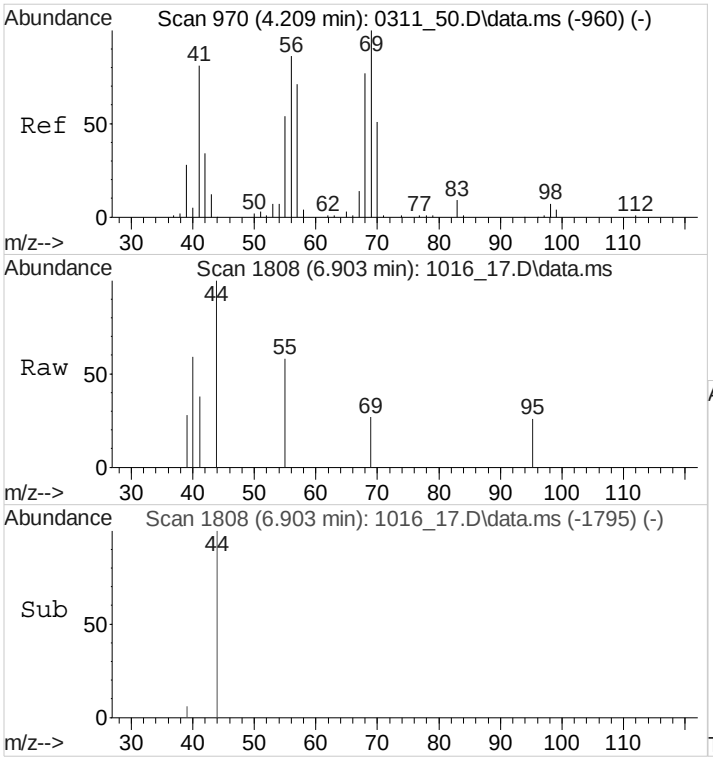


#121
3,3-DIMETHYL-1-BUTANOL
Concen: 2.1045716 ppb
RT: 5.608 min Scan# 1405
Delta R.T. -0.061 min
Lab File: 1016_17.D
Acq: 16 Oct 2015 3:08 pm

Tgt Ion: 57 Resp: 1451

Ion	Ratio	Lower	Upper
57	100		
69	0.0	56.8	85.2#
41	49.1	59.6	89.4#

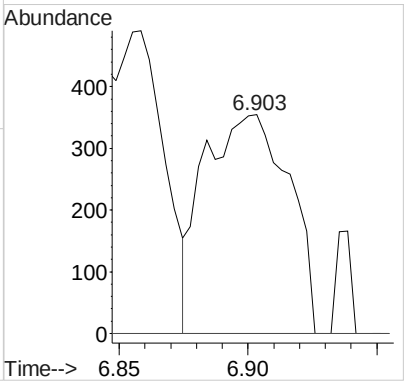




#125
Cyclohexanone
Concen: 0.5730467 ppb
RT: 6.903 min Scan# 1808
Delta R.T. -0.157 min
Lab File: 1016 17.D
Acq: 16 Oct 2015 3:08 pm

Tgt Ion: 55 Resp: 812

Ion	Ratio	Lower	Upper
55	100		
42	0.0	55.9	83.9#
98	0.0	31.4	47.0#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 18.D
Acq On : 16 Oct 2015 3:26 pm
Operator : 189
Sample : L793892-02 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:19:02 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

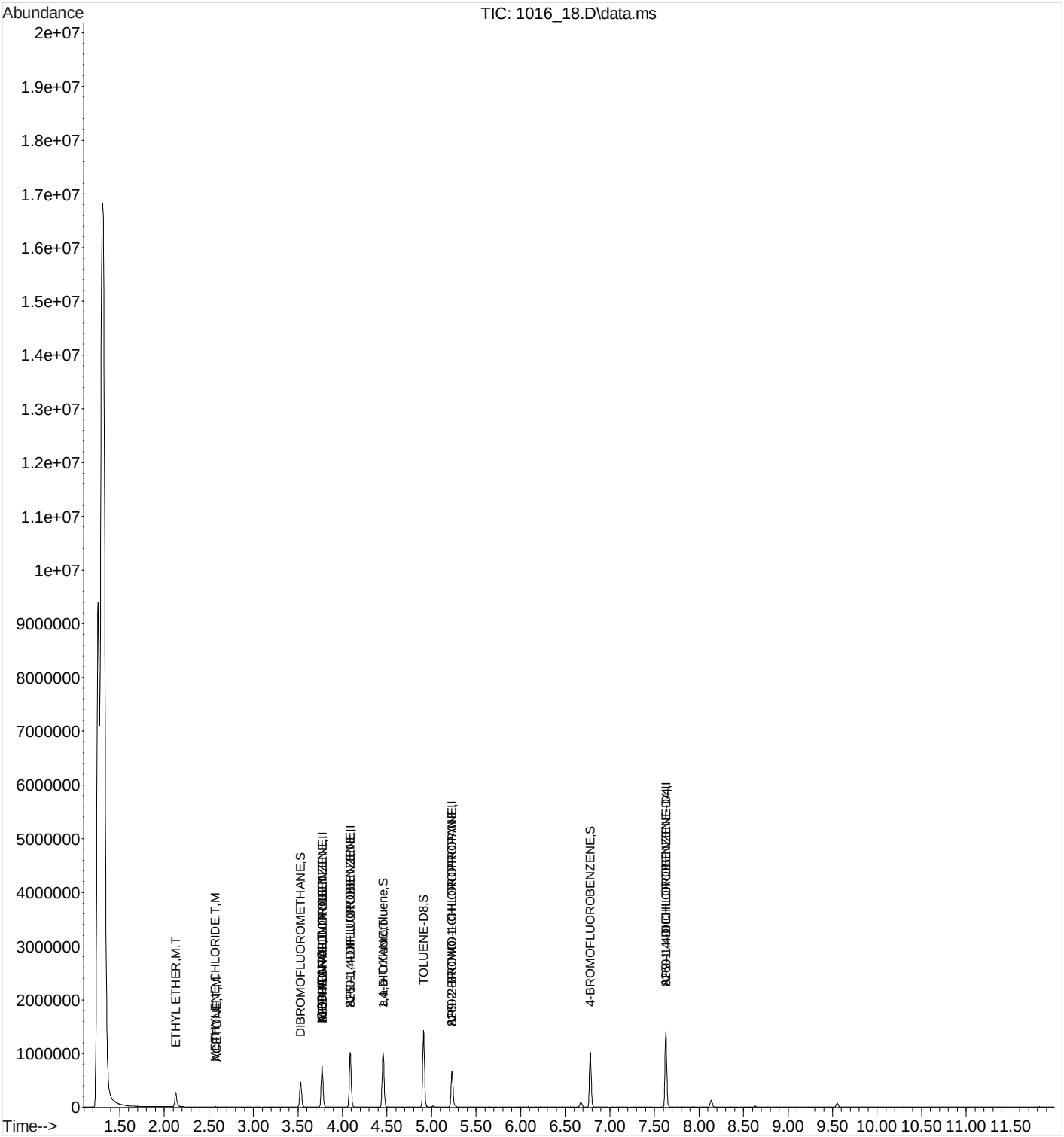
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	3.772	168	395372	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	632190	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.228	79	109416	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	315166	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	3.772	168	395372	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.087	114	632190	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.228	79	109416	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	315166	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.531	111	227362	38.1731546	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 95.43%				
46) a,a,a-Trifluorotoluene	4.457	146	345830	42.4191635	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 106.05%				
50) TOLUENE-D8	4.910	98	764645	41.3764218	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 103.44%				
68) 4-BROMOFLUOROBENZENE	6.781	95	297040	43.2288204	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 108.07%				
Target Compounds						Qvalue	
3) PROPENE	1.328	41	1734	Below Cal	#	43	
12) ETHYL ETHER	2.129	59	130024	38.0008105	ppb		99
16) ACETONE	2.588	43	2544	1.0520542	ppb	#	43
19) METHYLENE CHLORIDE	2.572	84	3568	0.6397887	ppb		89
108) METHACRYLONITRILE	3.772	67	1472	0.7184066	ppb	#	1
111) ISOBUTANOL	3.768	43	695	2.1038789	ppb	#	1
119) 1,4-DIOXANE	4.453	88	4822	101.8743824	ppb	#	16

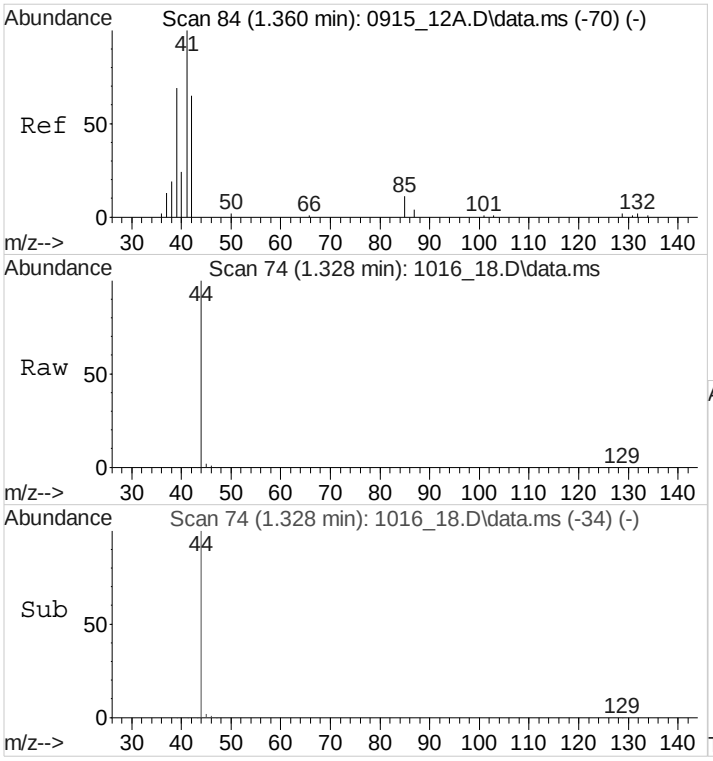
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 18.D
Acq On : 16 Oct 2015 3:26 pm
Operator : 189
Sample : L793892-02 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:19:02 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

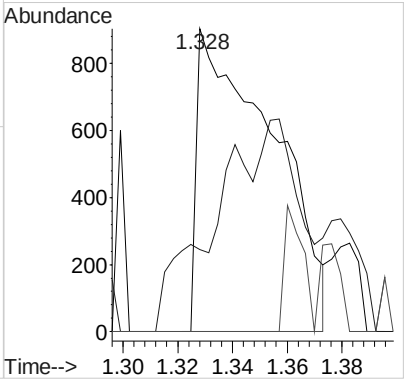


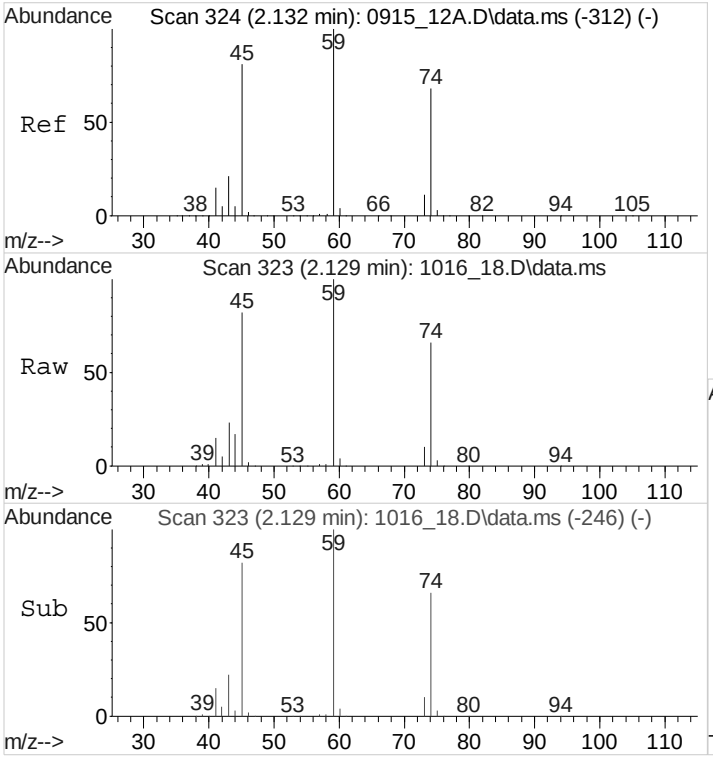


#3
PROPENE
Concen: Below Cal
RT: 1.328 min Scan# 74
Delta R.T. -0.022 min
Lab File: 1016 18.D
Acq: 16 Oct 2015 3:26 pm

Tgt Ion: 41 Resp: 1734

Ion	Ratio	Lower	Upper
41	100		
39	41.0	55.2	82.8#
42	0.0	51.4	77.2#

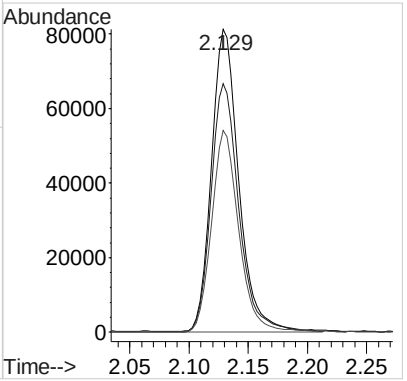


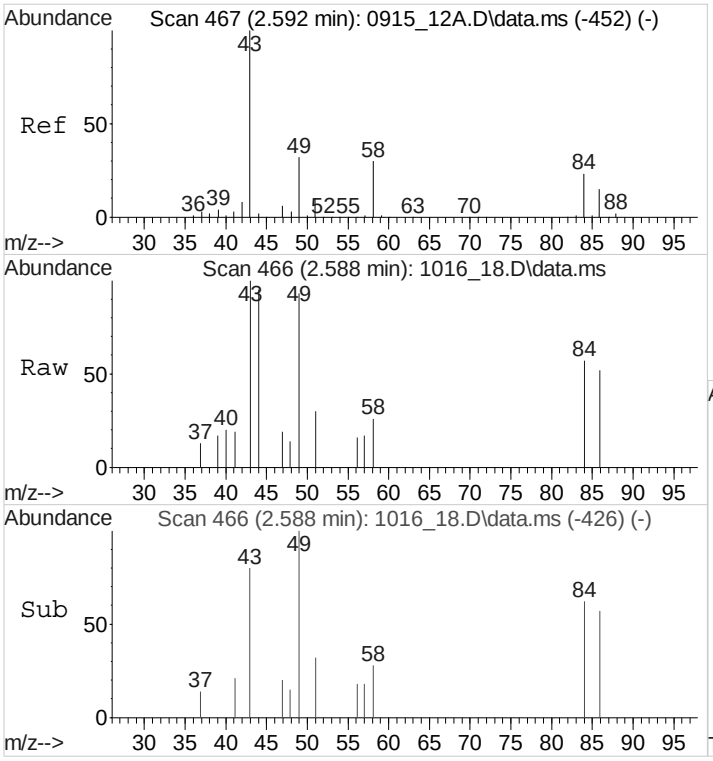


#12
ETHYL ETHER
Concen: 38.0008105 ppb
RT: 2.129 min Scan# 323
Delta R.T. -0.003 min
Lab File: 1016_18.D
Acq: 16 Oct 2015 3:26 pm

Tgt Ion: 59 Resp: 130024

Ion	Ratio	Lower	Upper
59	100		
45	82.3	65.8	98.8
74	66.1	54.2	81.4

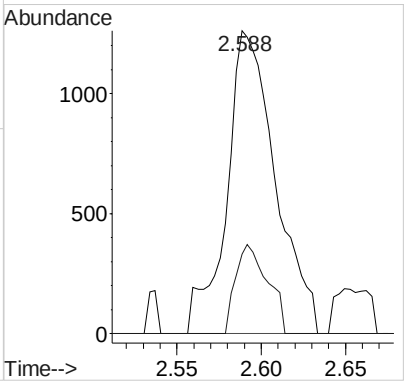


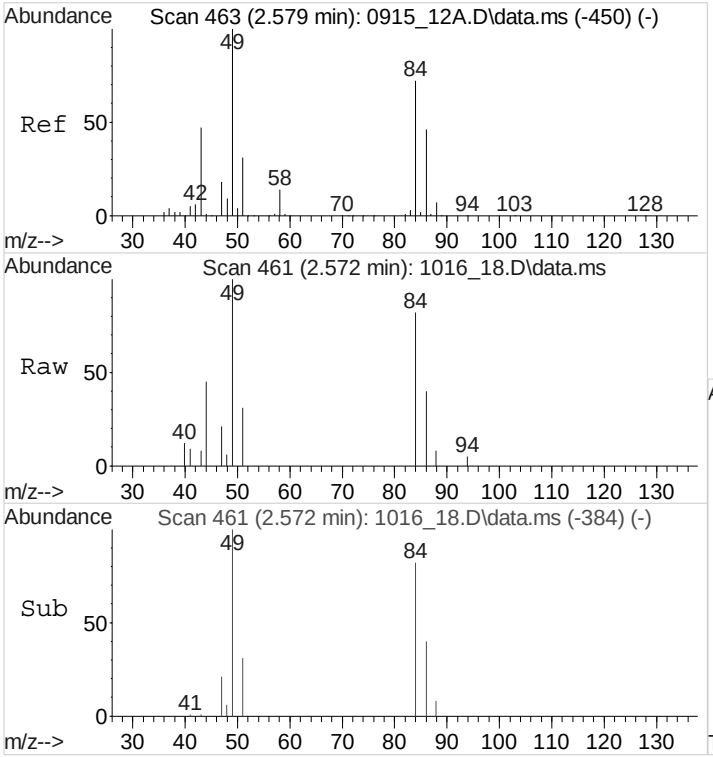


#16
ACETONE
Concen: 1.0520542 ppb
RT: 2.588 min Scan# 466
Delta R.T. -0.003 min
Lab File: 1016 18.D
Acq: 16 Oct 2015 3:26 pm

Tgt Ion: 43 Resp: 2544

Ion	Ratio	Lower	Upper
43	100		
58	0.0	25.0	37.4#

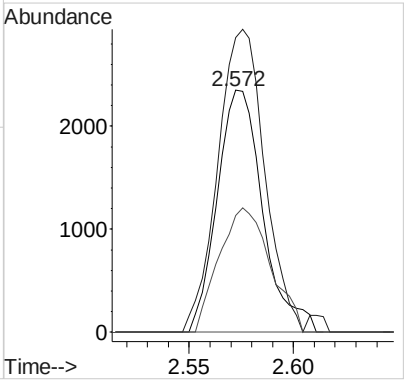


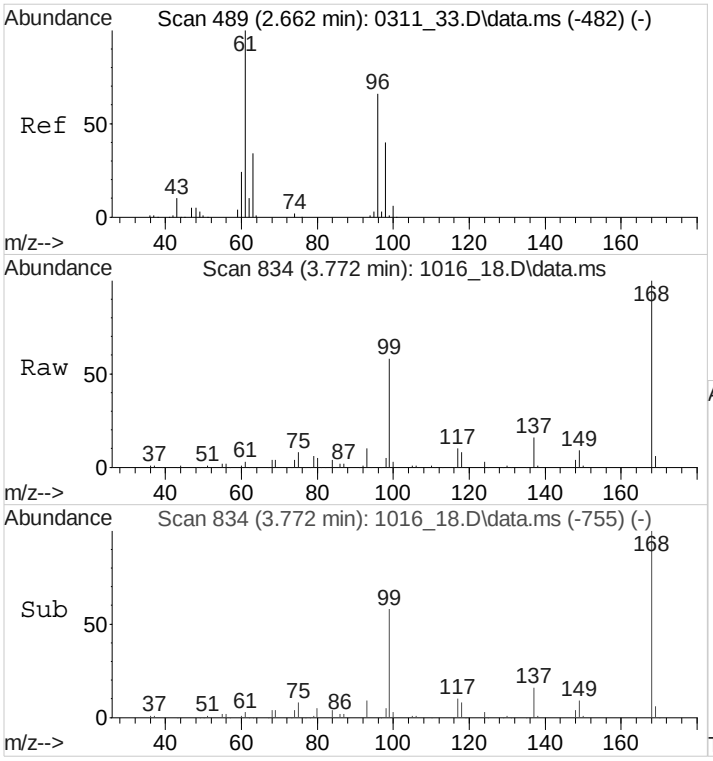


#19
METHYLENE CHLORIDE
Concen: 0.6397887 ppb
RT: 2.572 min Scan# 461
Delta R.T. -0.003 min
Lab File: 1016_18.D
Acq: 16 Oct 2015 3:26 pm

Tgt Ion: 84 Resp: 3568

Ion	Ratio	Lower	Upper
84	100		
49	128.5	115.0	172.4
86	57.8	51.4	77.2

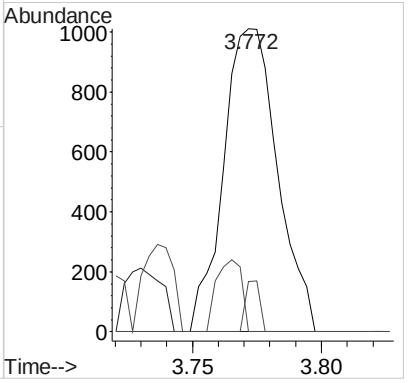


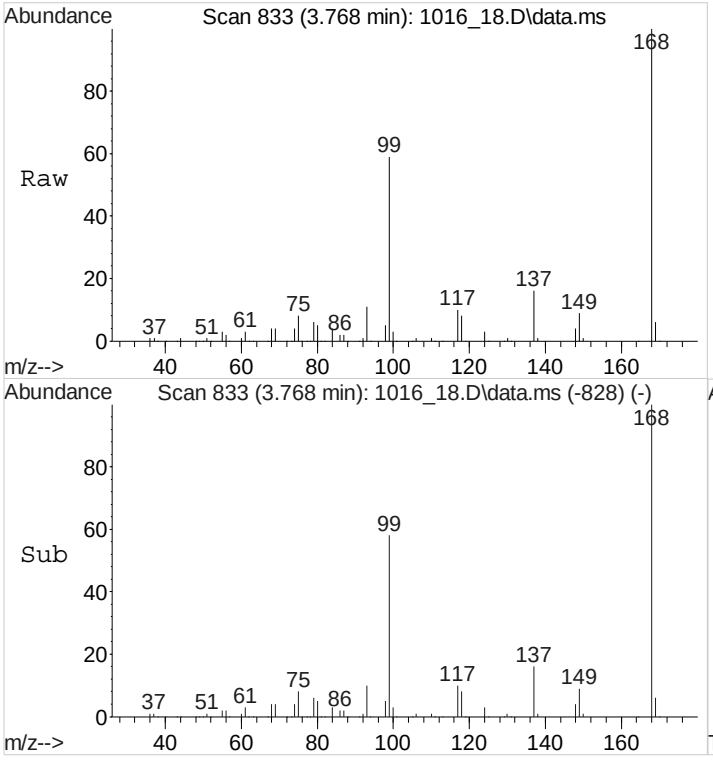


#108
METHACRYLONITRILE
Concen: 0.7184066 ppb
RT: 3.772 min Scan# 834
Delta R.T. 0.003 min
Lab File: 1016 18.D
Acq: 16 Oct 2015 3:26 pm

Tgt Ion: 67 Resp: 1472

Ion	Ratio	Lower	Upper
67	100		
41	0.0	129.0	193.6#
39	0.0	68.3	102.5#
52	0.0	37.0	55.4#

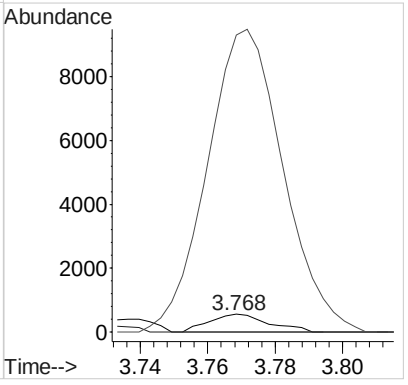


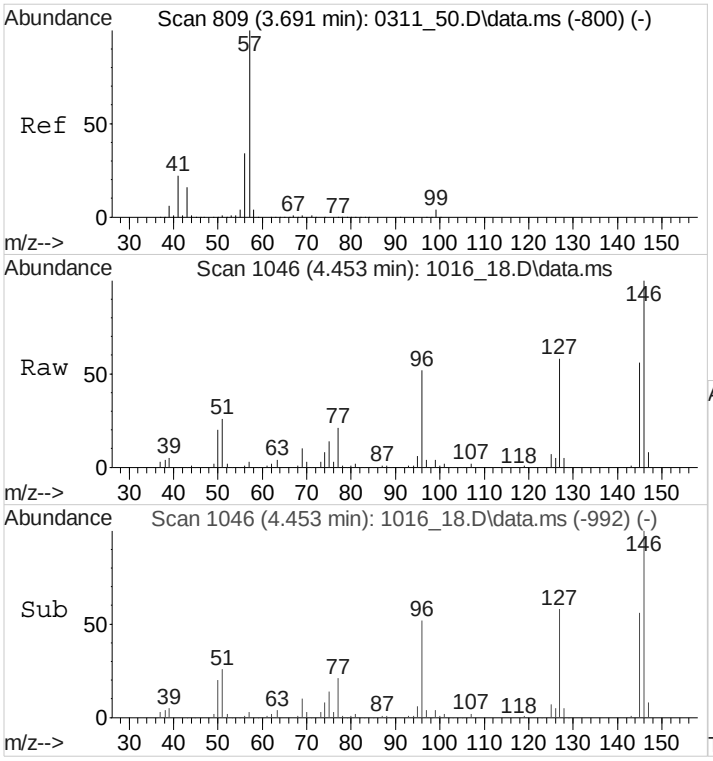


#111
ISOBUTANOL
Concen: 2.1038789 ppb
RT: 3.768 min Scan# 833
Delta R.T. -0.061 min
Lab File: 1016_18.D
Acq: 16 Oct 2015 3:26 pm

Tgt Ion: 43 Resp: 695

Ion	Ratio	Lower	Upper
43	100		
41	0.0	54.1	81.1#
74	2132.4	6.8	10.2#

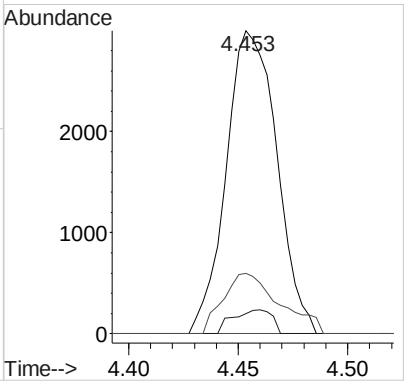




#119
1,4-DIOXANE
Concen: 101.8743824 ppb
RT: 4.453 min Scan# 1046
Delta R.T. -0.077 min
Lab File: 1016 18.D
Acq: 16 Oct 2015 3:26 pm

Tgt Ion: 88 Resp: 4822

Ion	Ratio	Lower	Upper
88	100		
58	0.0	53.9	80.9#
43	22.3	0.0	0.0#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 19.D
Acq On : 16 Oct 2015 3:44 pm
Operator : 189
Sample : L793892-03 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:19:22 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

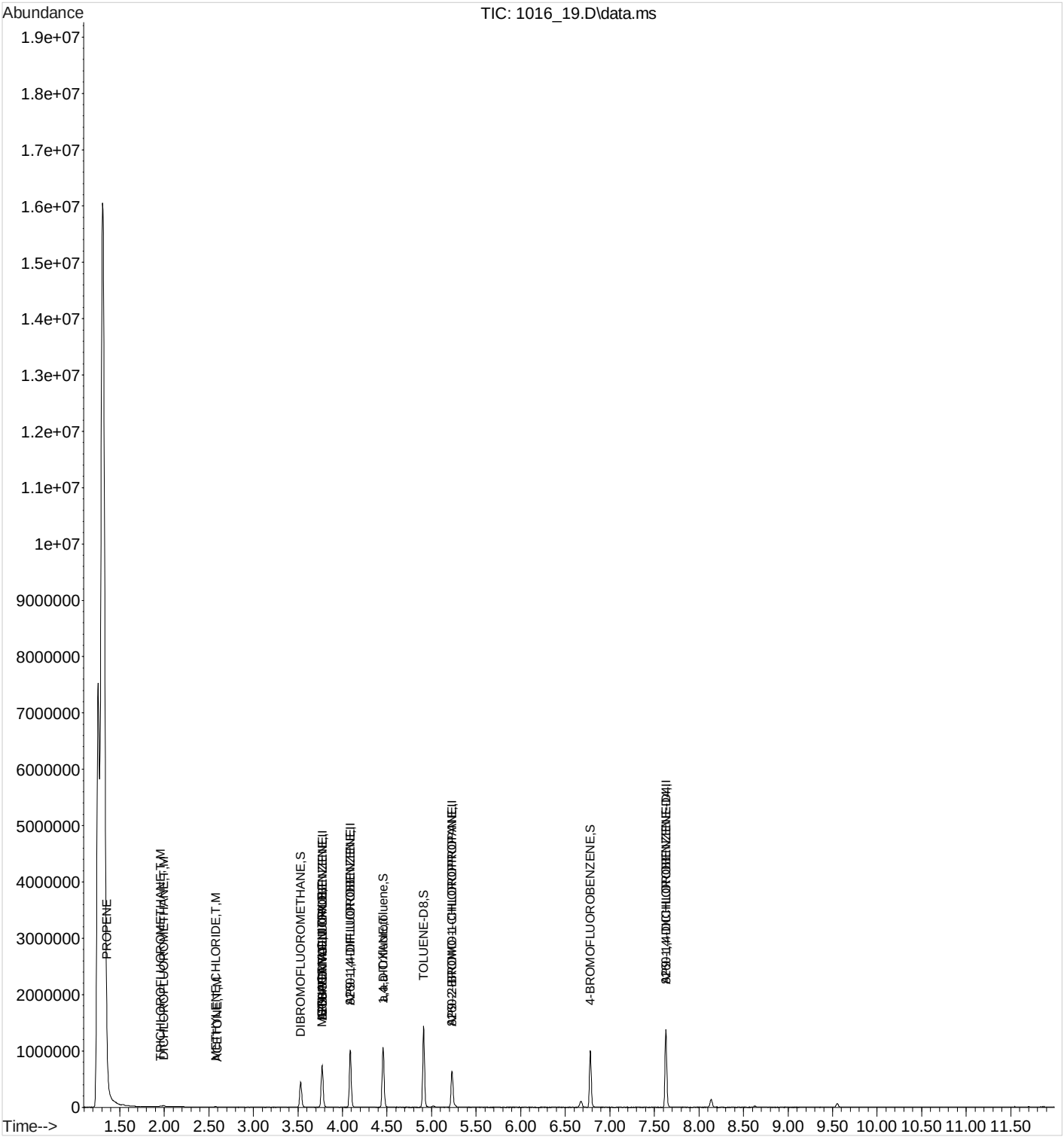
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	3.772	168	392548	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	627915	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.228	79	108602	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	307871	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	3.772	168	392548	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.087	114	627915	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.228	79	108602	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	307871	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.531	111	225064	38.0591727	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 95.15%				
46) a,a,a-Trifluorotoluene	4.457	146	356599	44.0378715	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 110.09%				
50) TOLUENE-D8	4.910	98	770124	41.9566205	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.89%				
68) 4-BROMOFLUOROBENZENE	6.781	95	288637	42.3207603	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 105.80%				
Target Compounds							Qvalue
3) PROPENE	1.354	41	2946	1.4430547	ppb	#	73
10) TRICHLOROFLUOROMETHANE	1.958	101	6634	0.9196759	ppb	#	92
11) DICHLOROFLUOROMETHANE	1.994	67	19791	2.1777141	ppb		100
16) ACETONE	2.592	43	4065	1.6931472	ppb		96
19) METHYLENE CHLORIDE	2.576	84	3238	0.5847924	ppb		91
108) METHACRYLONITRILE	3.765	67	1378	0.6773682	ppb	#	1
111) ISOBUTANOL	3.772	43	715	2.1799931	ppb	#	1
119) 1,4-DIOXANE	4.453	88	4742	100.8663015	ppb	#	16

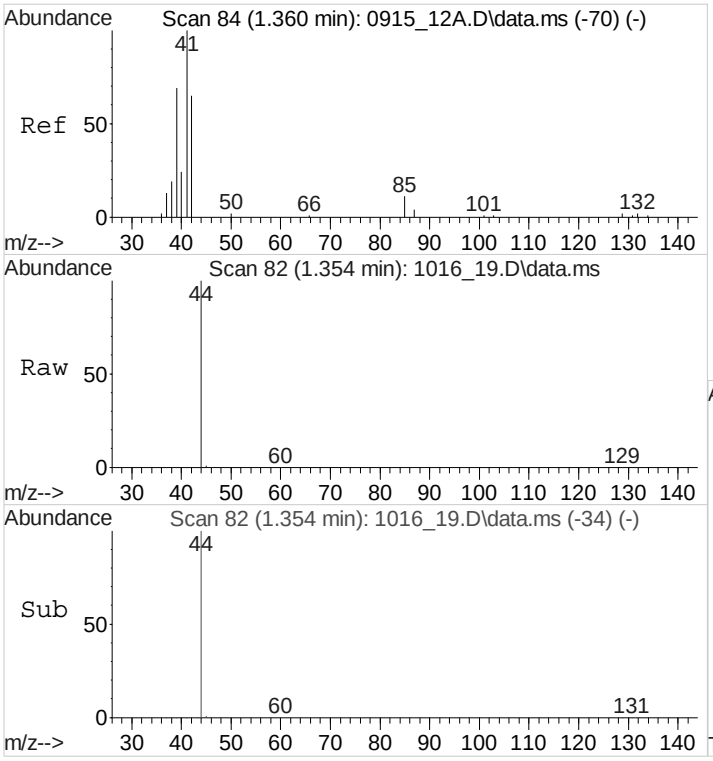
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 19.D
Acq On : 16 Oct 2015 3:44 pm
Operator : 189
Sample : L793892-03 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:19:22 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

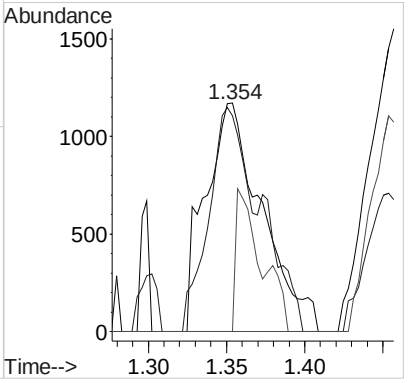


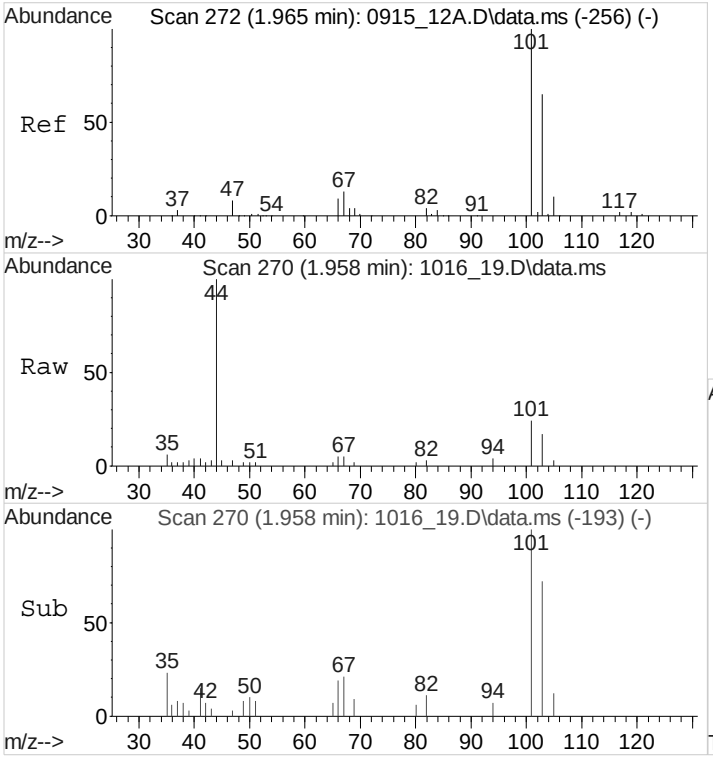


#3
PROPENE
Concen: 1.4430547 ppb
RT: 1.354 min Scan# 82
Delta R.T. 0.004 min
Lab File: 1016 19.D
Acq: 16 Oct 2015 3:44 pm

Tgt Ion: 41 Resp: 2946

Ion	Ratio	Lower	Upper
41	100		
39	68.8	55.2	82.8
42	20.7	51.4	77.2#

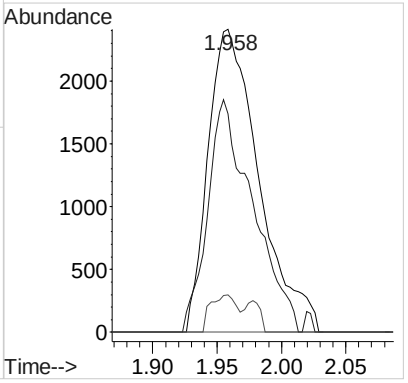


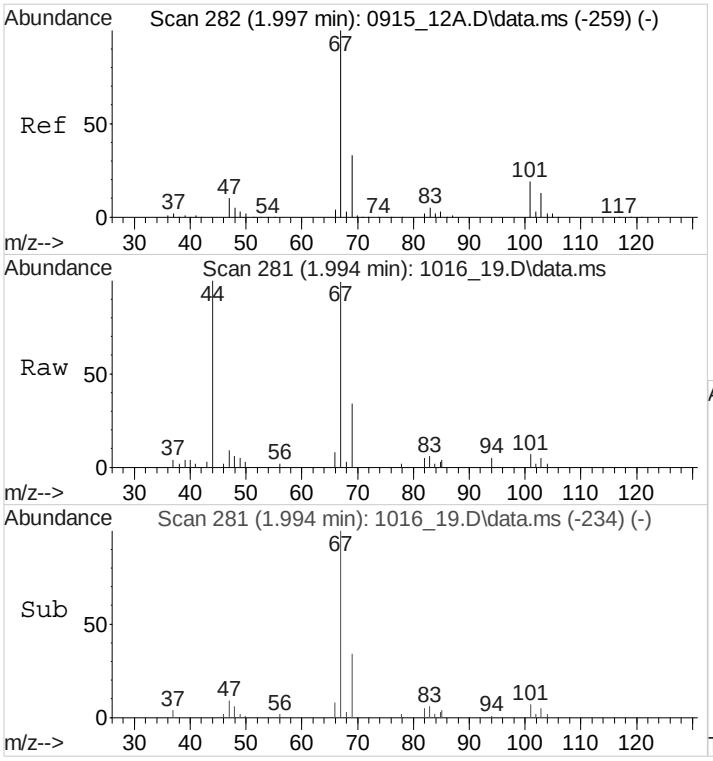


#10
TRICHLOROFLUOROMETHANE
Concen: 0.9196759 ppb
RT: 1.958 min Scan# 270
Delta R.T. -0.003 min
Lab File: 1016_19.D
Acq: 16 Oct 2015 3:44 pm

Tgt Ion:101 Resp: 6634

Ion	Ratio	Lower	Upper
101	100		
103	68.3	51.7	77.5
105	0.0	8.6	13.0#

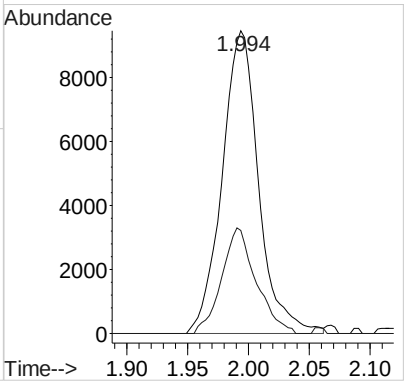


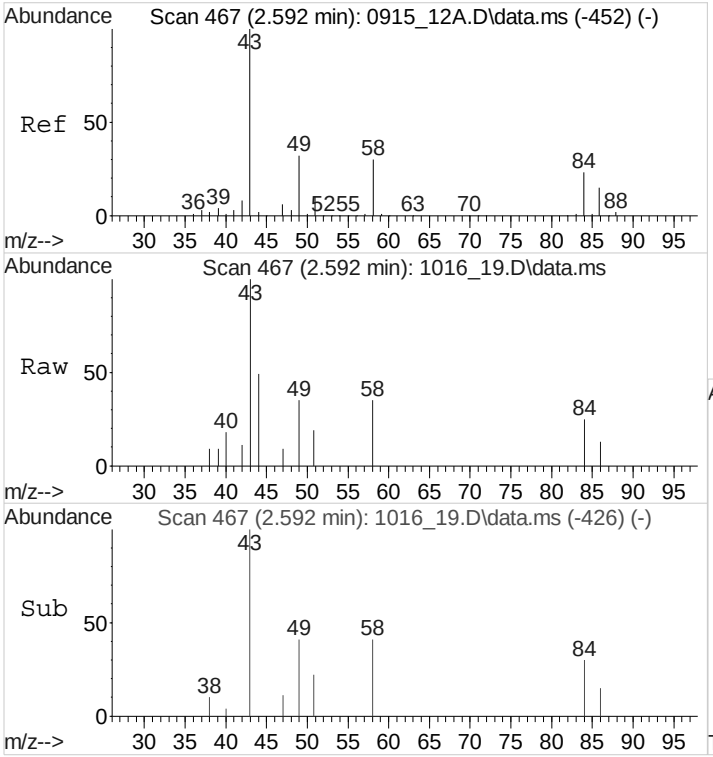


#11
DICHLOROFLUOROMETHANE
Concen: 2.1777141 ppb
RT: 1.994 min Scan# 281
Delta R.T. 0.000 min
Lab File: 1016 19.D
Acq: 16 Oct 2015 3:44 pm

Tgt Ion: 67 Resp: 19791

Ion	Ratio	Lower	Upper
67	100		
69	33.0	26.5	39.7

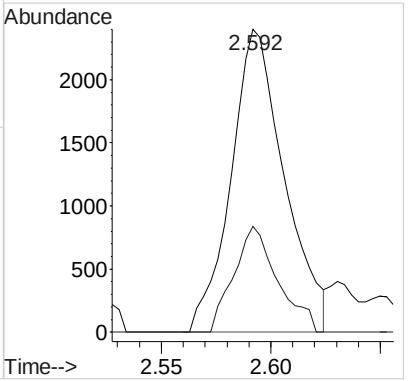


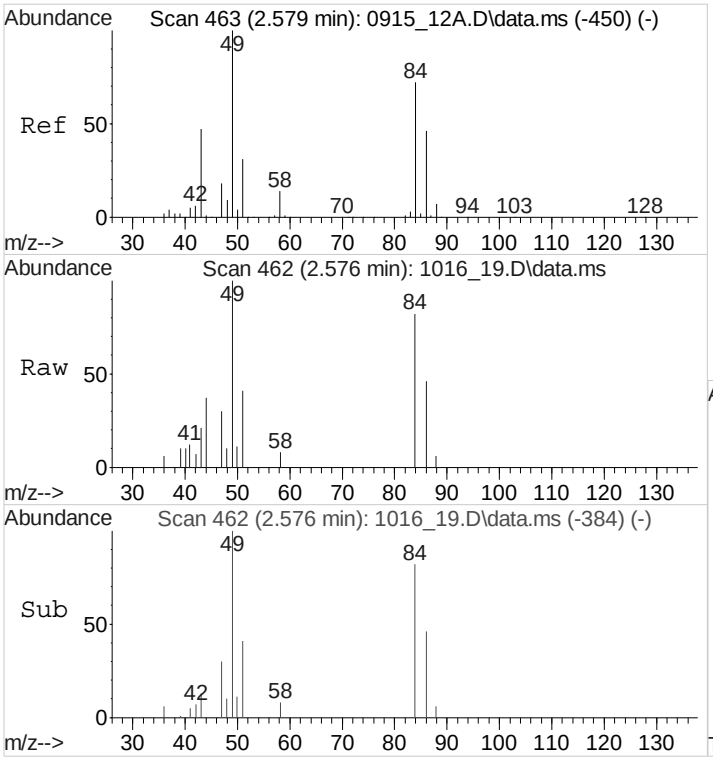


#16
ACETONE
Concen: 1.6931472 ppb
RT: 2.592 min Scan# 467
Delta R.T. 0.001 min
Lab File: 1016_19.D
Acq: 16 Oct 2015 3:44 pm

Tgt Ion: 43 Resp: 4065

Ion	Ratio	Lower	Upper
43	100		
58	28.9	25.0	37.4

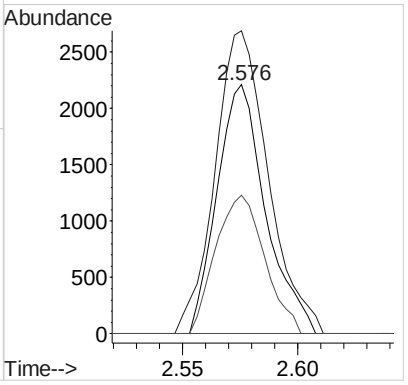


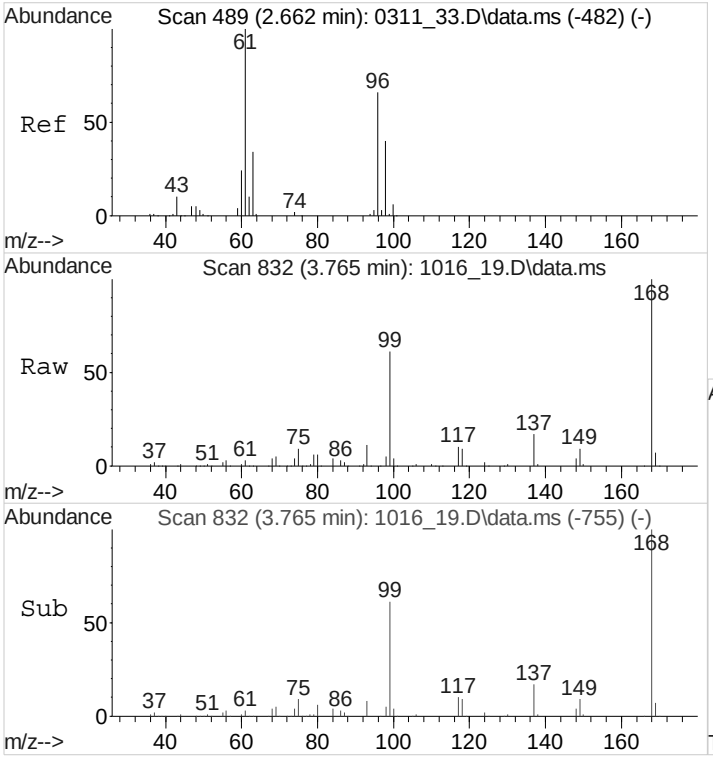


#19
METHYLENE CHLORIDE
Concen: 0.5847924 ppb
RT: 2.576 min Scan# 462
Delta R.T. 0.001 min
Lab File: 1016 19.D
Acq: 16 Oct 2015 3:44 pm

Tgt Ion: 84 Resp: 3238

Ion	Ratio	Lower	Upper
84	100		
49	133.5	115.0	172.4
86	56.2	51.4	77.2

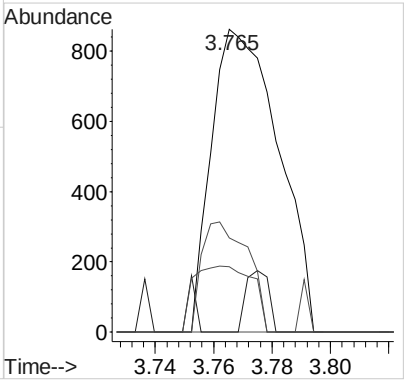


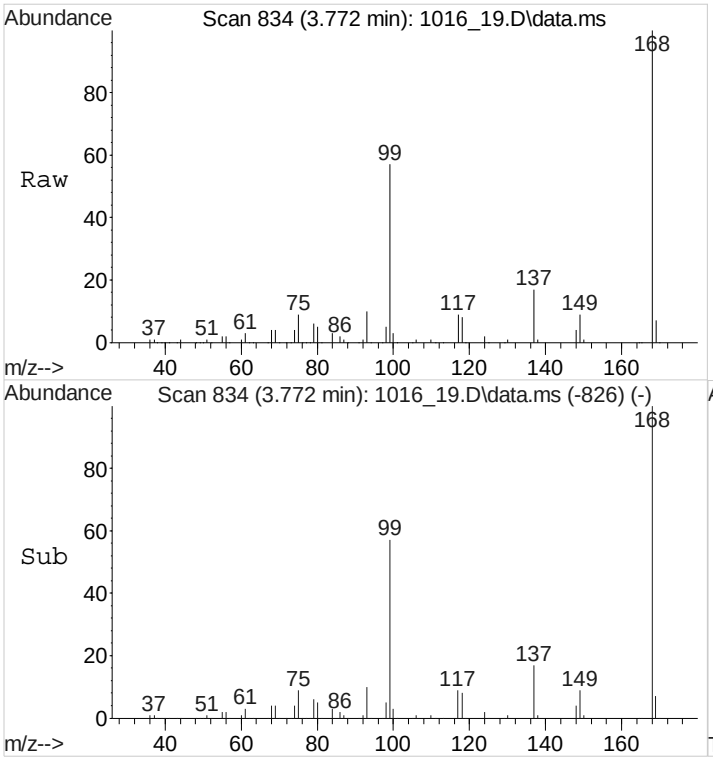


#108
METHACRYLONITRILE
Concen: 0.6773682 ppb
RT: 3.765 min Scan# 832
Delta R.T. -0.003 min
Lab File: 1016_19.D
Acq: 16 Oct 2015 3:44 pm

Tgt Ion: 67 Resp: 1378

Ion	Ratio	Lower	Upper
67	100		
41	0.0	129.0	193.6#
39	0.0	68.3	102.5#
52	0.0	37.0	55.4#

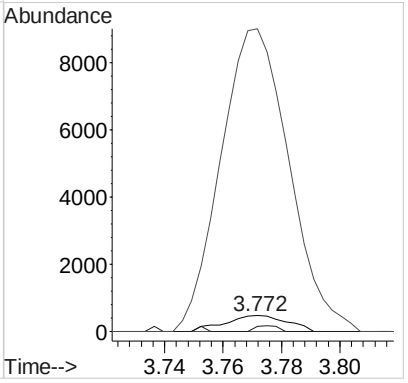


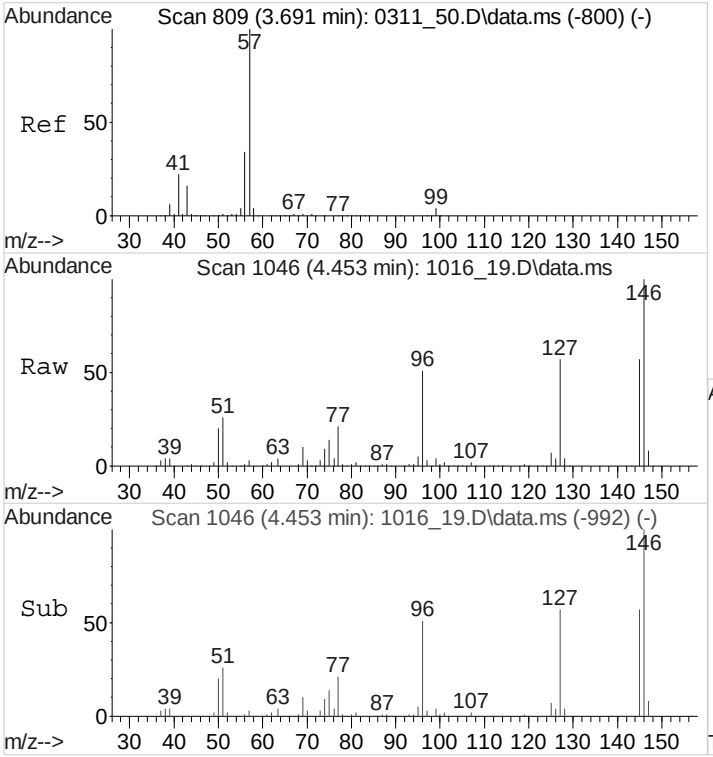


#111
ISOBUTANOL
Concen: 2.1799931 ppb
RT: 3.772 min Scan# 834
Delta R.T. -0.058 min
Lab File: 1016 19.D
Acq: 16 Oct 2015 3:44 pm

Tgt Ion: 43 Resp: 715

Ion	Ratio	Lower	Upper
43	100		
41	0.0	54.1	81.1#
74	2051.0	6.8	10.2#

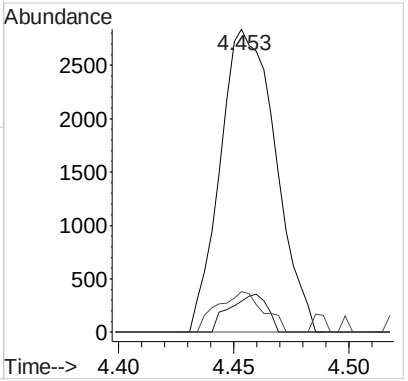




#119
1,4-DIOXANE
Concen: 100.8663015 ppb
RT: 4.453 min Scan# 1046
Delta R.T. -0.077 min
Lab File: 1016_19.D
Acq: 16 Oct 2015 3:44 pm

Tgt Ion: 88 Resp: 4742

Ion	Ratio	Lower	Upper
88	100		
58	0.0	53.9	80.9#
43	11.2	0.0	0.0#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 20.D
Acq On : 16 Oct 2015 4:02 pm
Operator : 189
Sample : L793892-04 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:19:45 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

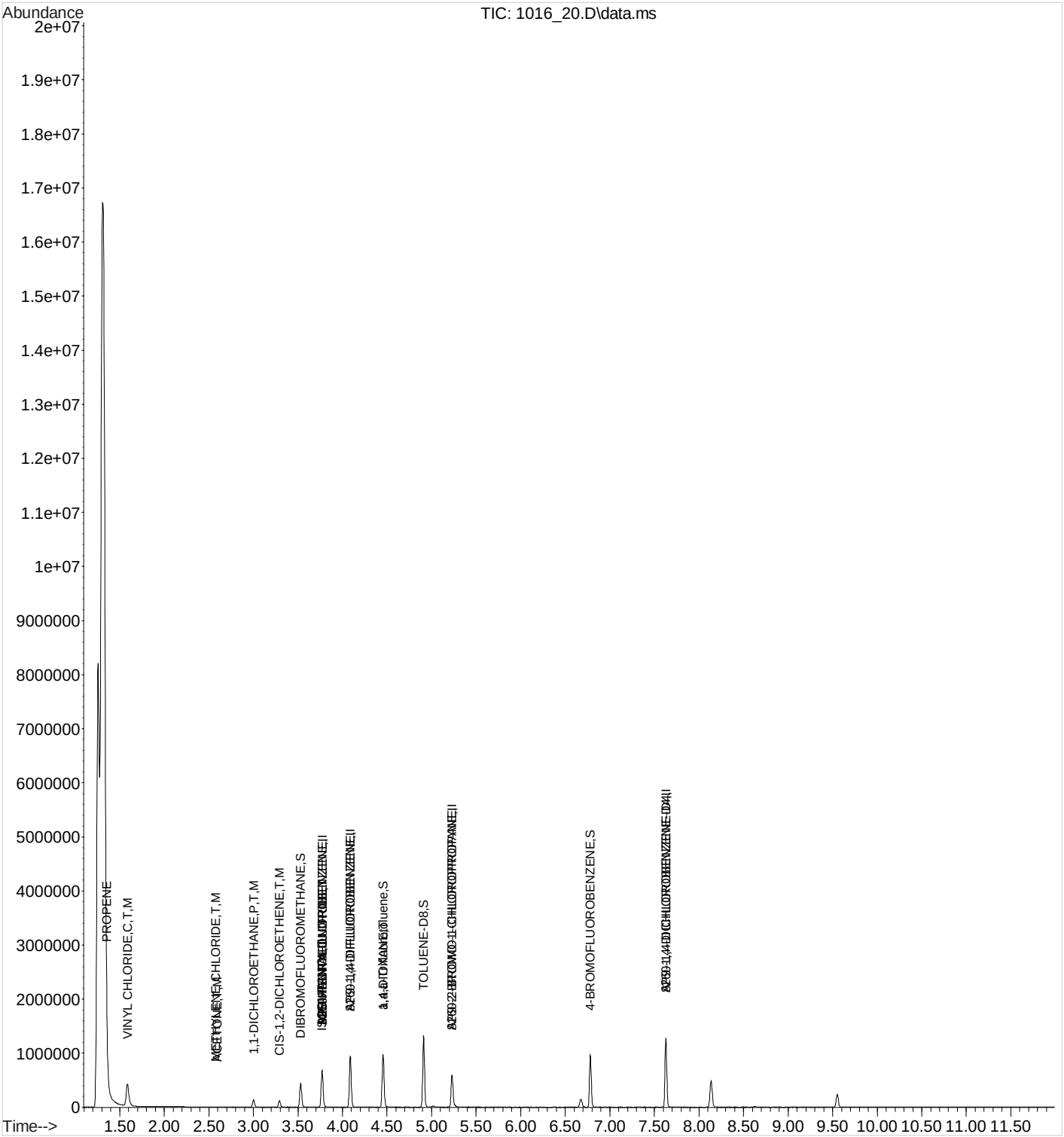
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	3.771	168	366871	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	591486	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.228	79	101847	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	288460	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.771	168	366871	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.087	114	591486	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.228	79	101847	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	288460	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.530	111	220669	39.9276751	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 99.82%			
46) a,a,a-Trifluorotoluene	4.456	146	325308	42.6478685	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 106.62%			
50) TOLUENE-D8	4.910	98	717714	41.5095139	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 103.77%			
68) 4-BROMOFLUOROBENZENE	6.781	95	272115	42.5445098	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 106.36%			
Target Compounds						Qvalue
3) PROPENE	1.354	41	5033	5.0668364	ppb #	43
6) VINYL CHLORIDE	1.588	62	537680	98.3995903	ppb	99
16) ACETONE	2.595	43	2079	0.9265482	ppb #	43
19) METHYLENE CHLORIDE	2.575	84	3033	0.5861066	ppb	94
24) 1,1-DICHLOROETHANE	3.003	63	113120	12.3130135	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.292	96	41327	7.9665507	ppb	99
108) METHACRYLONITRILE	3.771	67	1166	0.6132726	ppb #	1
111) ISOBUTANOL	3.765	43	634	2.0683200	ppb #	1
119) 1,4-DIOXANE	4.456	88	4679	105.6559551	ppb #	16

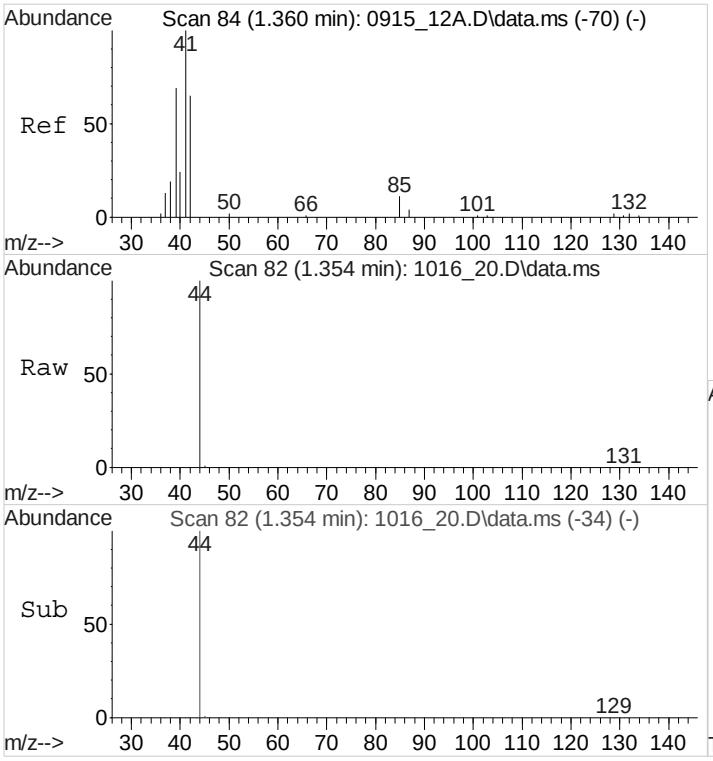
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 20.D
Acq On : 16 Oct 2015 4:02 pm
Operator : 189
Sample : L793892-04 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:19:45 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

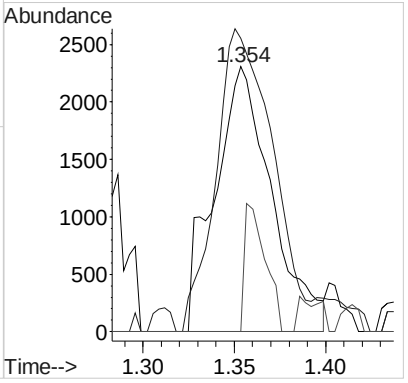


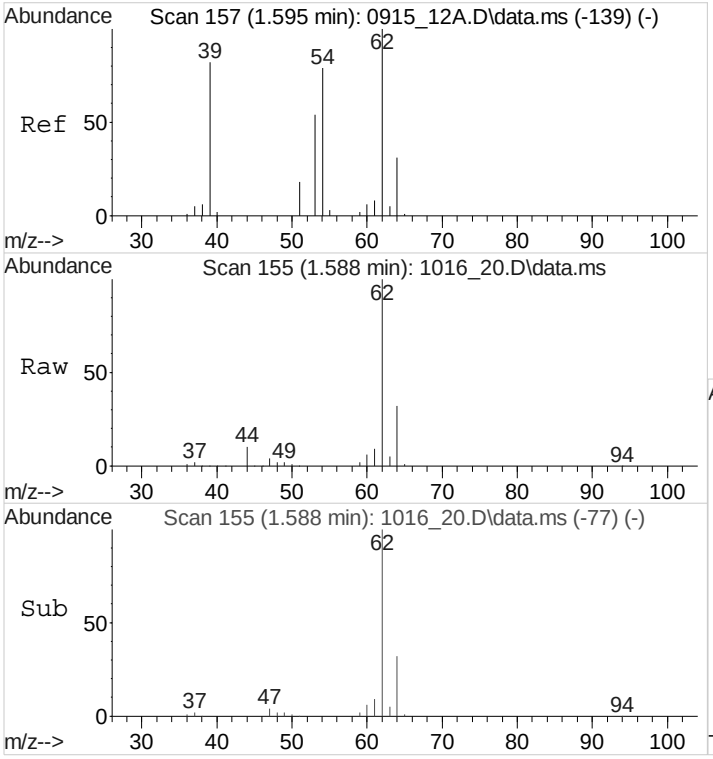


#3
PROPENE
Concen: 5.0668364 ppb
RT: 1.354 min Scan# 82
Delta R.T. 0.004 min
Lab File: 1016 20.D
Acq: 16 Oct 2015 4:02 pm

Tgt Ion: 41 Resp: 5033

Ion	Ratio	Lower	Upper
41	100		
39	113.7	55.2	82.8#
42	17.5	51.4	77.2#

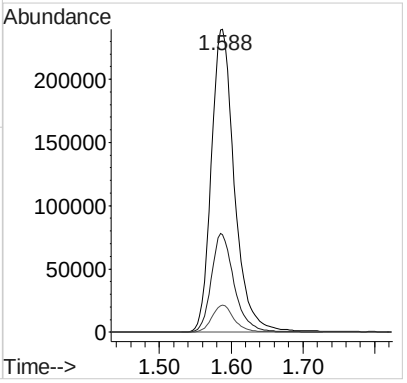


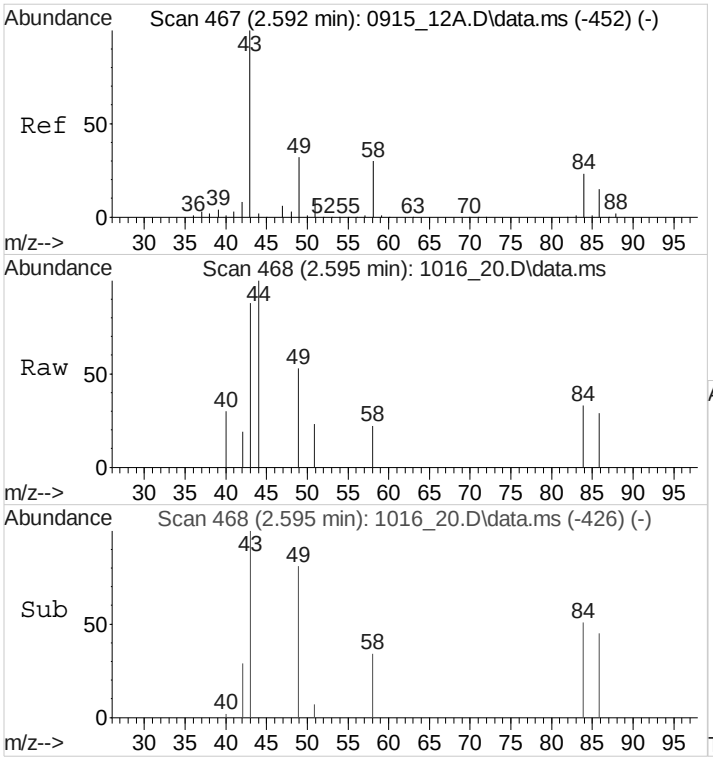


#6
VINYL CHLORIDE
Concen: 98.3995903 ppb
RT: 1.588 min Scan# 155
Delta R.T. -0.000 min
Lab File: 1016_20.D
Acq: 16 Oct 2015 4:02 pm

Tgt Ion: 62 Resp: 537680

Ion	Ratio	Lower	Upper
62	100		
64	31.9	25.8	38.6
61	8.7	7.2	10.8

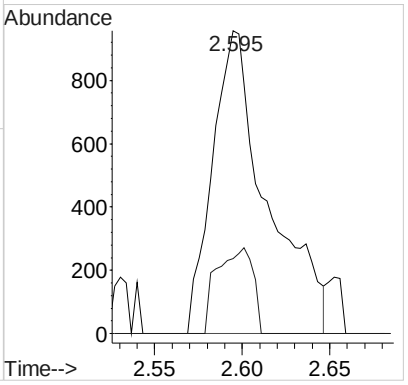


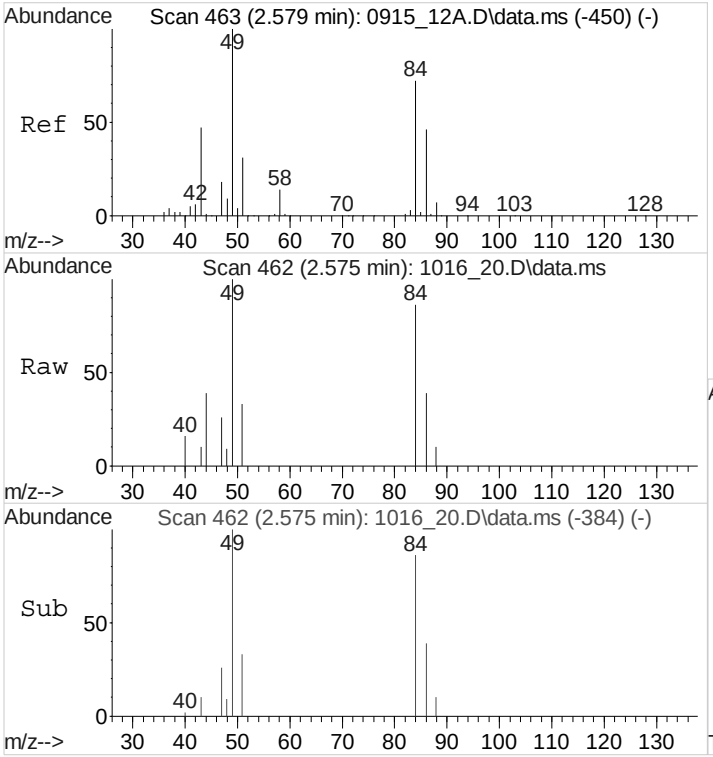


#16
ACETONE
Concen: 0.9265482 ppb
RT: 2.595 min Scan# 468
Delta R.T. 0.004 min
Lab File: 1016 20.D
Acq: 16 Oct 2015 4:02 pm

Tgt Ion: 43 Resp: 2079

Ion	Ratio	Lower	Upper
43	100		
58	0.0	25.0	37.4#

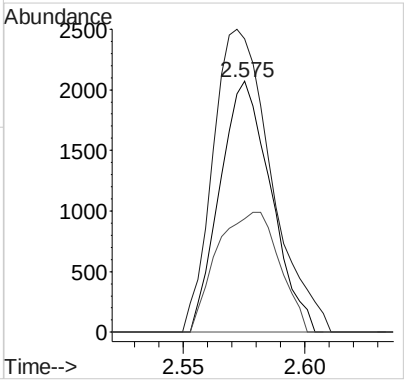


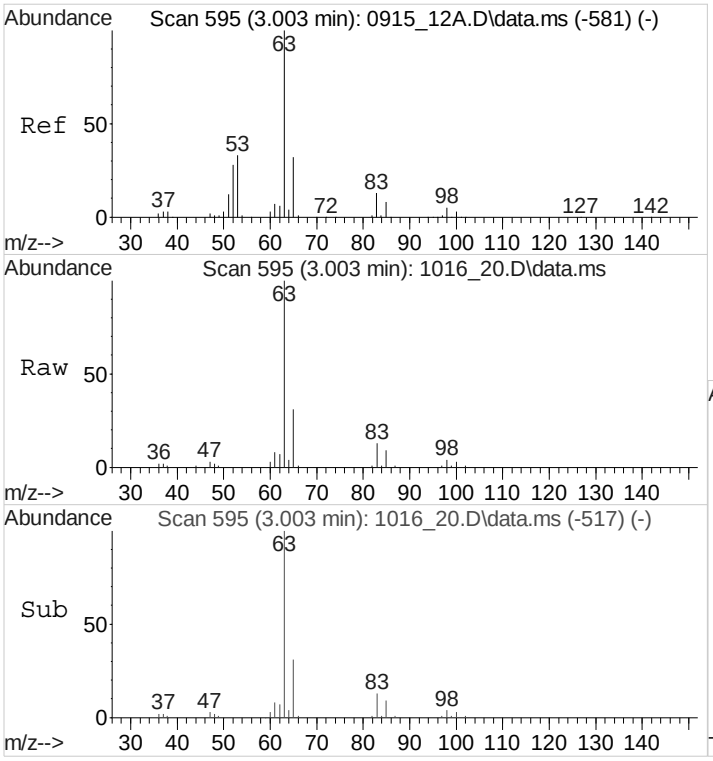


#19
METHYLENE CHLORIDE
Concen: 0.5861066 ppb
RT: 2.575 min Scan# 462
Delta R.T. 0.000 min
Lab File: 1016_20.D
Acq: 16 Oct 2015 4:02 pm

Tgt Ion: 84 Resp: 3033

Ion	Ratio	Lower	Upper
84	100		
49	137.5	115.0	172.4
86	58.3	51.4	77.2

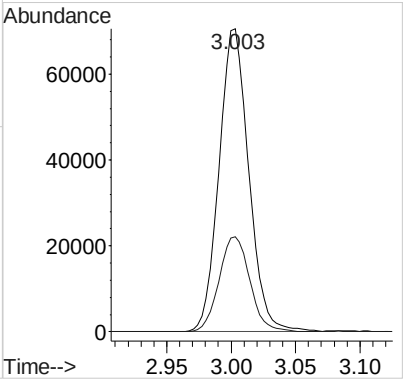


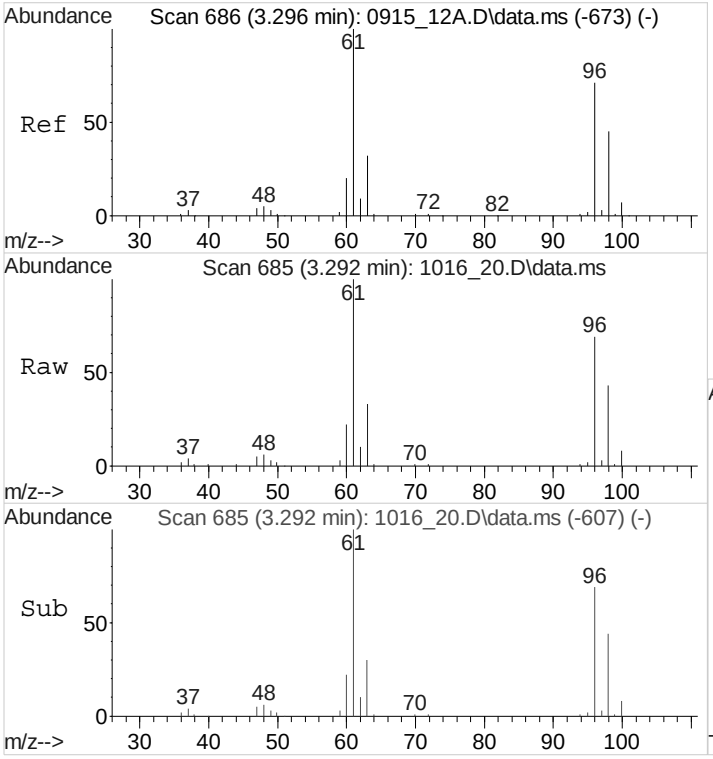


#24
1,1-DICHLOROETHANE
Concen: 12.3130135 ppb
RT: 3.003 min Scan# 595
Delta R.T. -0.000 min
Lab File: 1016 20.D
Acq: 16 Oct 2015 4:02 pm

Tgt Ion: 63 Resp: 113120

Ion	Ratio	Lower	Upper
63	100		
65	32.3	25.9	38.9

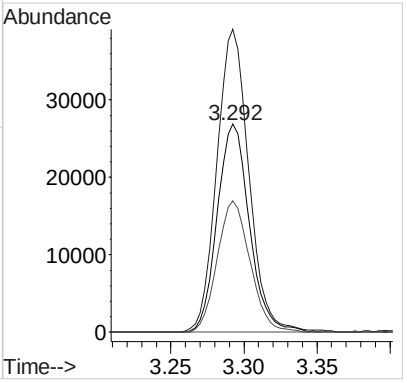


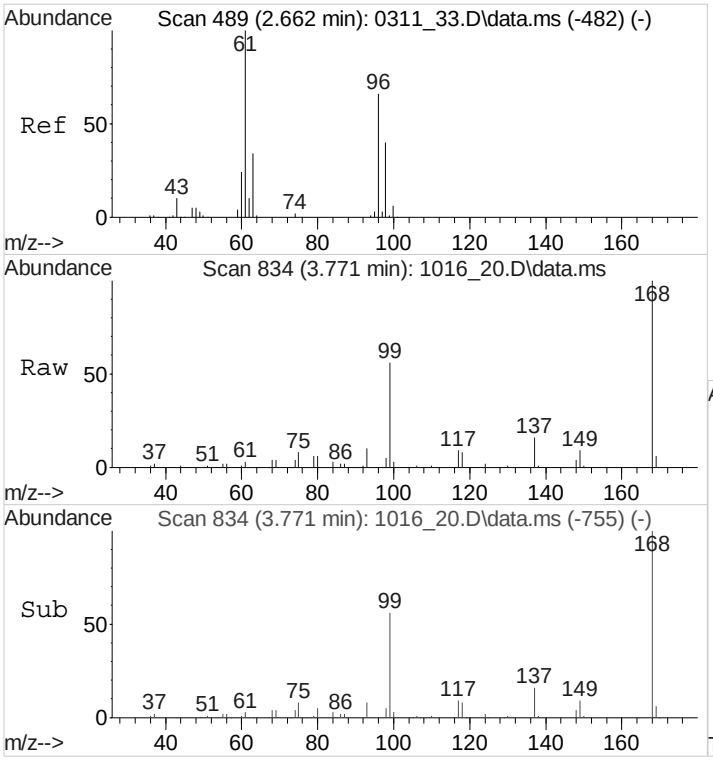


#28
CIS-1,2-DICHLOROETHENE
Concen: 7.9665507 ppb
RT: 3.292 min Scan# 685
Delta R.T. -0.000 min
Lab File: 1016_20.D
Acq: 16 Oct 2015 4:02 pm

Tgt Ion: 96 Resp: 41327

Ion	Ratio	Lower	Upper
96	100		
61	145.0	114.4	171.6
98	64.1	51.5	77.3

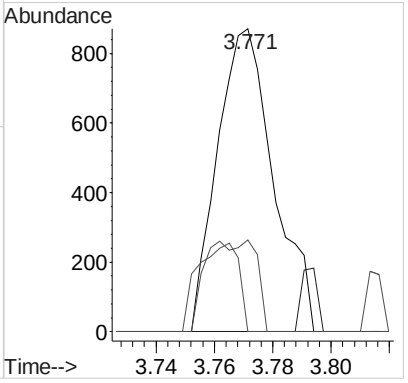


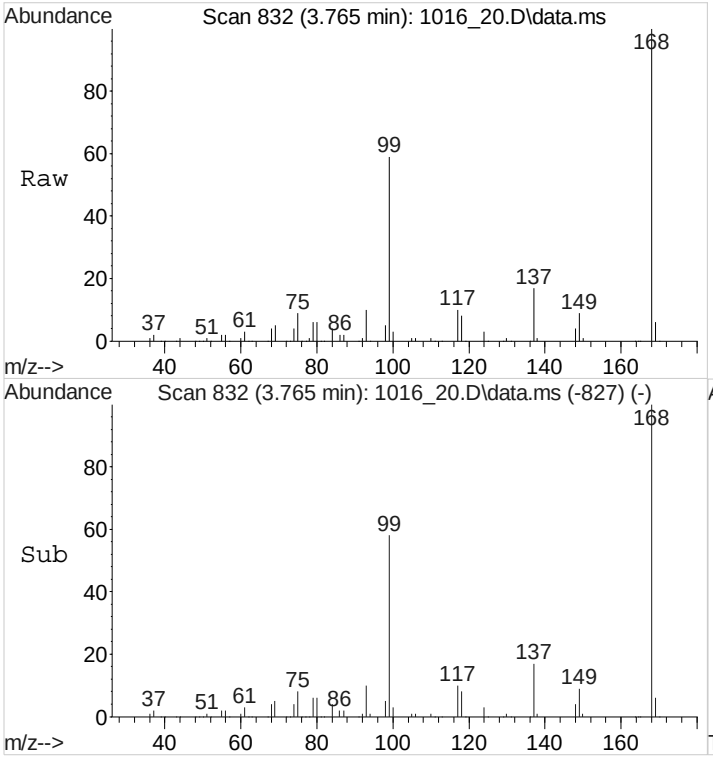


#108
METHACRYLONITRILE
Concen: 0.6132726 ppb
RT: 3.771 min Scan# 834
Delta R.T. 0.003 min
Lab File: 1016 20.D
Acq: 16 Oct 2015 4:02 pm

Tgt Ion: 67 Resp: 1166

Ion	Ratio	Lower	Upper
67	100		
41	0.0	129.0	193.6#
39	0.0	68.3	102.5#
52	0.0	37.0	55.4#

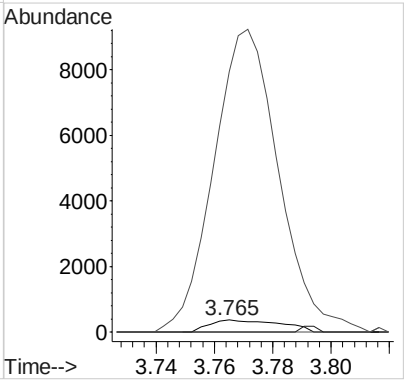


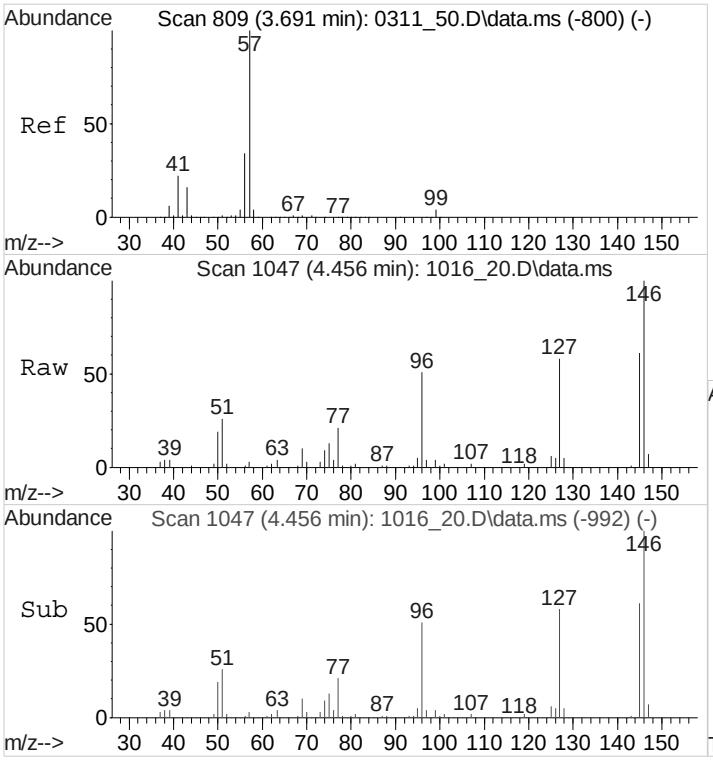


#111
ISOBUTANOL
Concen: 2.0683200 ppb
RT: 3.765 min Scan# 832
Delta R.T. -0.064 min
Lab File: 1016_20.D
Acq: 16 Oct 2015 4:02 pm

Tgt Ion: 43 Resp: 634

Ion	Ratio	Lower	Upper
43	100		
41	0.0	54.1	81.1#
74	2260.7	6.8	10.2#

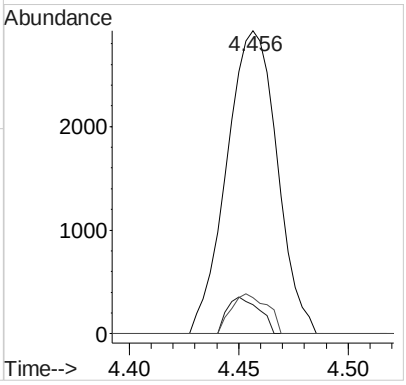




#119
1,4-DIOXANE
Concen: 105.6559551 ppb
RT: 4.456 min Scan# 1047
Delta R.T. -0.074 min
Lab File: 1016 20.D
Acq: 16 Oct 2015 4:02 pm

Tgt Ion: 88 Resp: 4679

Ion	Ratio	Lower	Upper
88	100		
58	0.0	53.9	80.9#
43	0.0	0.0	0.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 21.D
Acq On : 16 Oct 2015 4:21 pm
Operator : 189
Sample : L793892-05 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:20:06 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

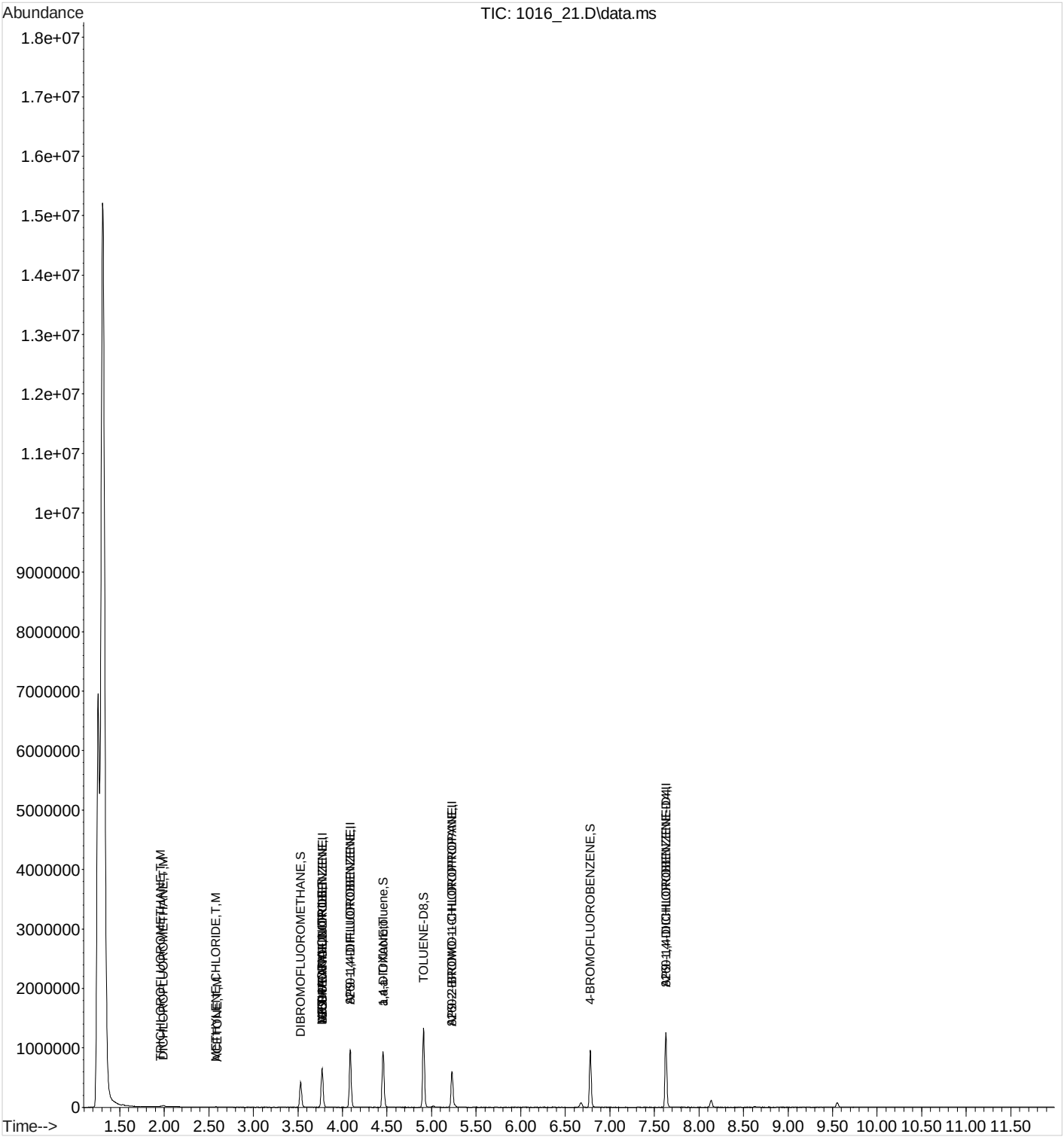
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	3.772	168	349256	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	593126	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.228	79	99266	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	281094	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	3.772	168	349256	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.087	114	593126	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.228	79	99266	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	281094	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.531	111	208250	39.5810412	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 98.95%				
46) a,a,a-Trifluorotoluene	4.457	146	320862	41.9486879	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.87%				
50) TOLUENE-D8	4.910	98	713473	41.1501365	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.88%				
68) 4-BROMOFLUOROBENZENE	6.781	95	270126	43.3316422	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 108.33%				
Target Compounds						Qvalue	
3) PROPENE	1.351	41	1301	Below Cal	#	1	
10) TRICHLOROFLUOROMETHANE	1.958	101	7080	1.1031675	ppb		96
11) DICHLOROFLUOROMETHANE	1.990	67	17833	2.2054968	ppb		93
16) ACETONE	2.592	43	5632	2.6366088	ppb	#	88
19) METHYLENE CHLORIDE	2.576	84	2883	0.5852190	ppb		93
108) METHACRYLONITRILE	3.768	67	961	0.5309430	ppb	#	1
111) ISOBUTANOL	3.772	43	591	2.0252818	ppb	#	1
119) 1,4-DIOXANE	4.457	88	4132	93.0462245	ppb	#	16

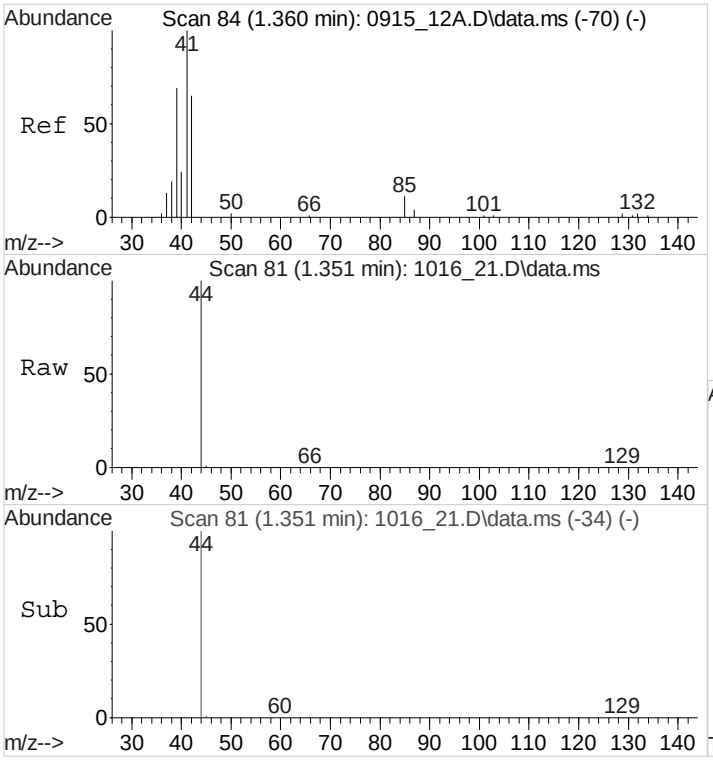
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 21.D
Acq On : 16 Oct 2015 4:21 pm
Operator : 189
Sample : L793892-05 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:20:06 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

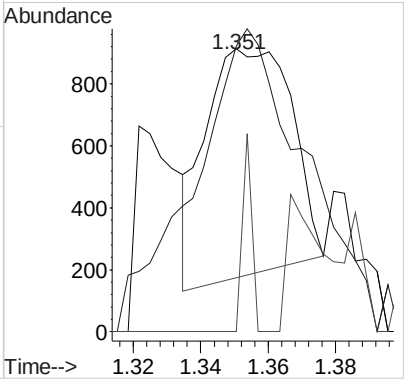


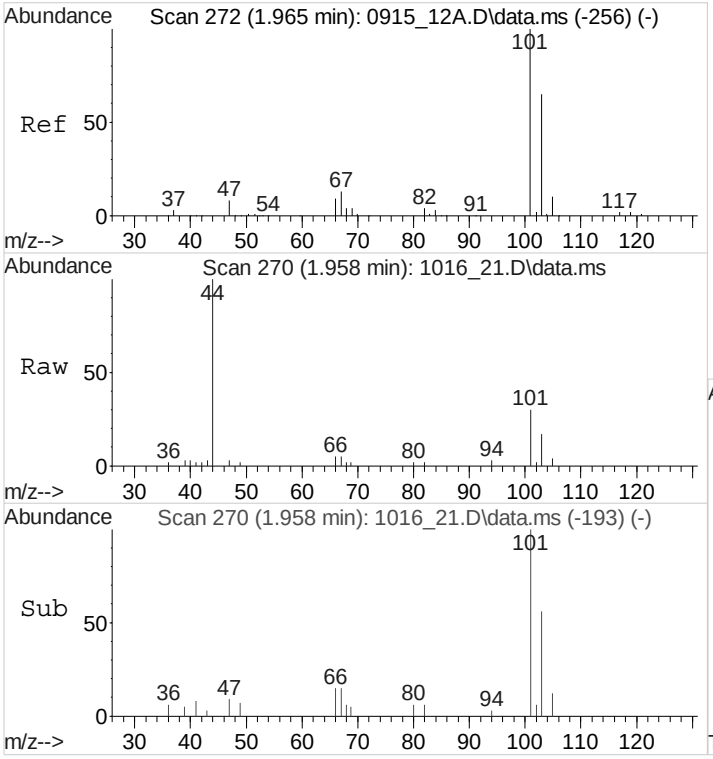


#3
PROPENE
Concen: Below Cal
RT: 1.351 min Scan# 81
Delta R.T. 0.001 min
Lab File: 1016 21.D
Acq: 16 Oct 2015 4:21 pm

Tgt Ion: 41 Resp: 1301

Ion	Ratio	Lower	Upper
41	100		
39	174.6	55.2	82.8#
42	0.0	51.4	77.2#

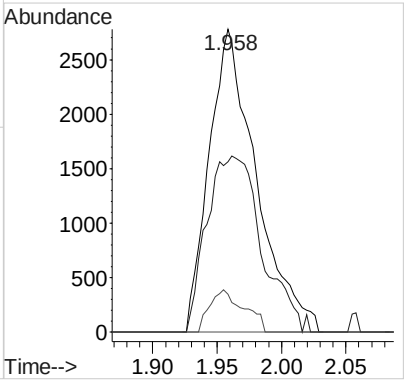


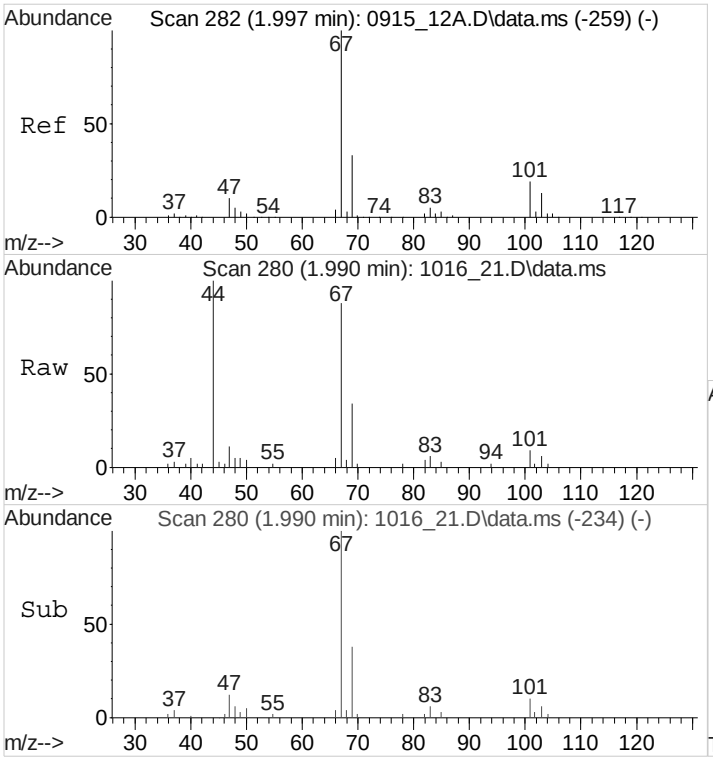


#10
TRICHLOROFLUOROMETHANE
Concen: 1.1031675 ppb
RT: 1.958 min Scan# 270
Delta R.T. -0.003 min
Lab File: 1016_21.D
Acq: 16 Oct 2015 4:21 pm

Tgt Ion:101 Resp: 7080

Ion	Ratio	Lower	Upper
101	100		
103	67.7	51.7	77.5
105	10.2	8.6	13.0

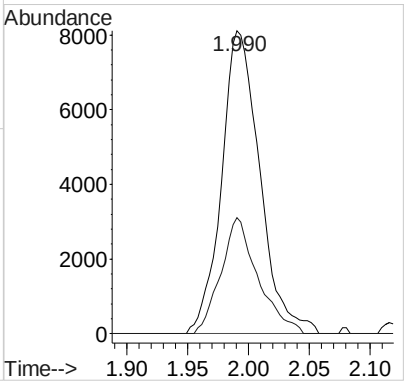


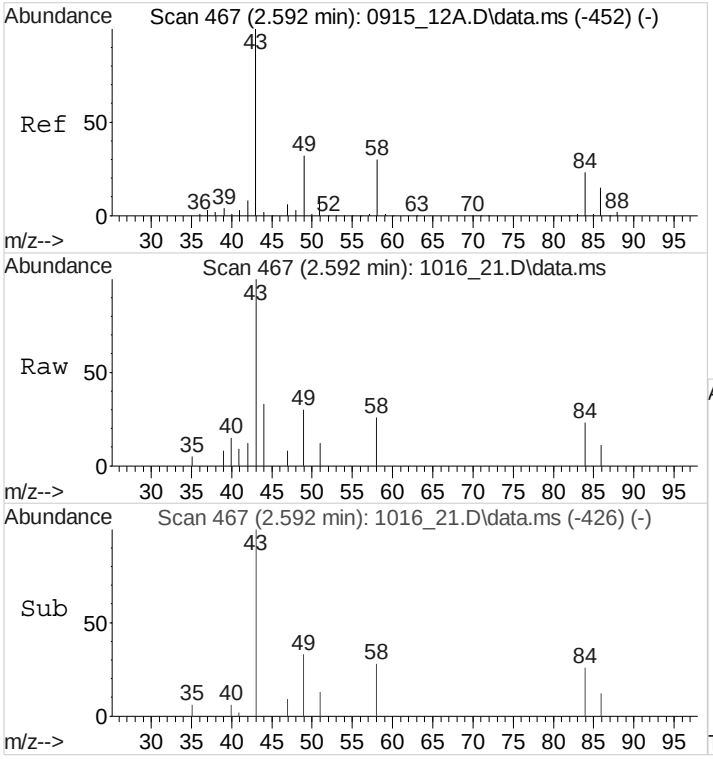


#11
DICHLOROFLUOROMETHANE
Concen: 2.2054968 ppb
RT: 1.990 min Scan# 280
Delta R.T. -0.003 min
Lab File: 1016 21.D
Acq: 16 Oct 2015 4:21 pm

Tgt Ion: 67 Resp: 17833

Ion	Ratio	Lower	Upper
67	100		
69	37.0	26.5	39.7

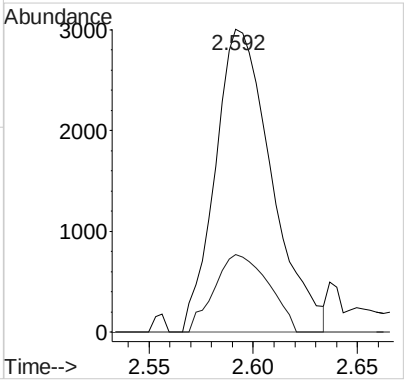


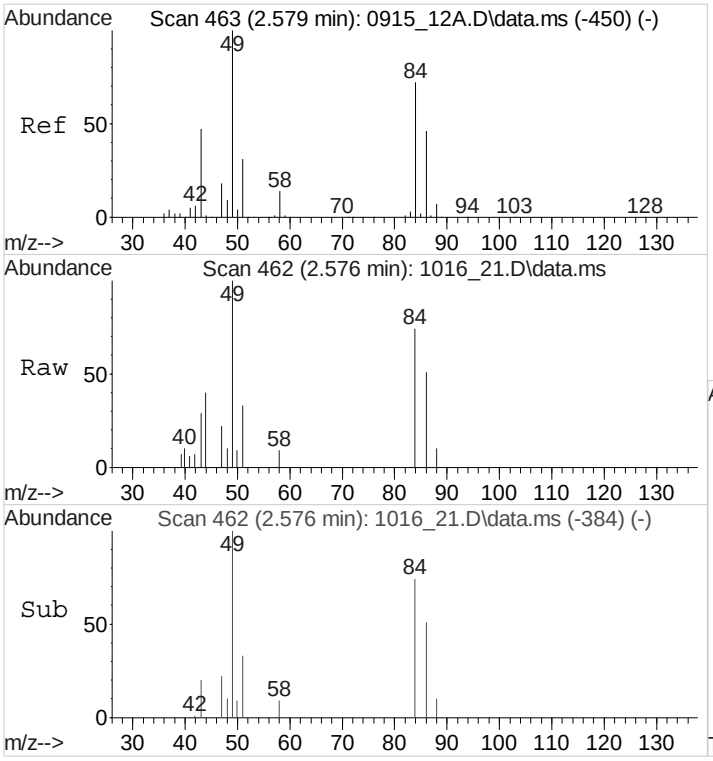


#16
ACETONE
Concen: 2.6366088 ppb
RT: 2.592 min Scan# 467
Delta R.T. 0.001 min
Lab File: 1016_21.D
Acq: 16 Oct 2015 4:21 pm

Tgt Ion: 43 Resp: 5632

Ion	Ratio	Lower	Upper
43	100		
58	24.7	25.0	37.4#

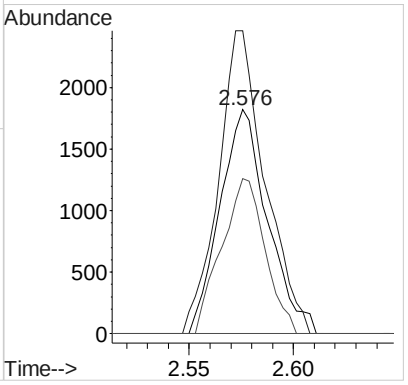


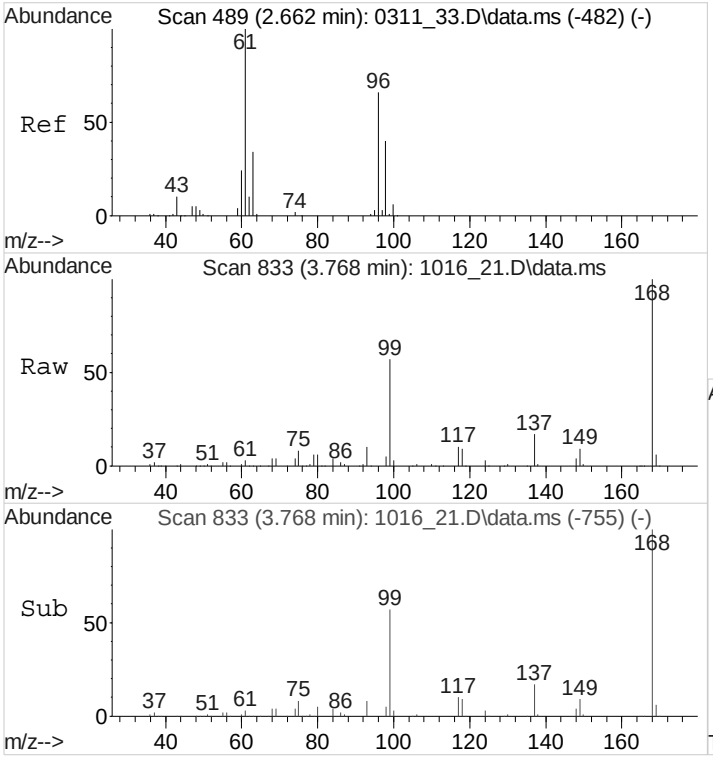


#19
METHYLENE CHLORIDE
Concen: 0.5852190 ppb
RT: 2.576 min Scan# 462
Delta R.T. 0.001 min
Lab File: 1016 21.D
Acq: 16 Oct 2015 4:21 pm

Tgt Ion: 84 Resp: 2883

Ion	Ratio	Lower	Upper
84	100		
49	131.9	115.0	172.4
86	63.2	51.4	77.2

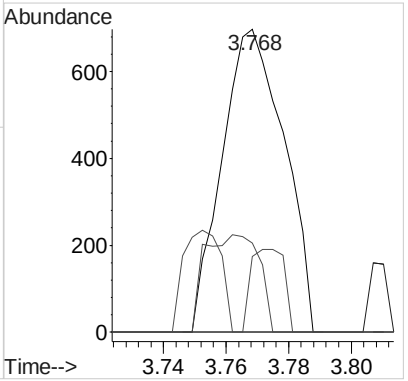


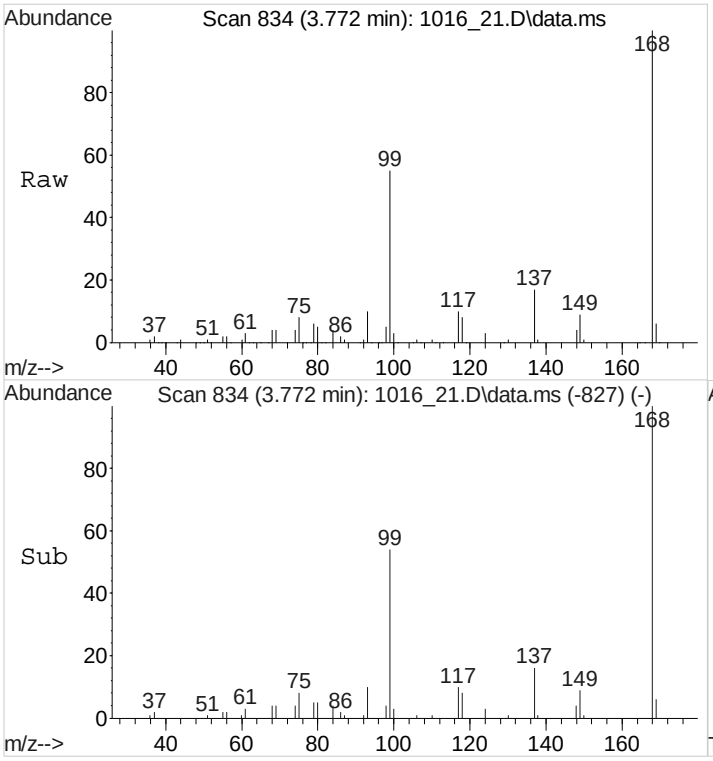


#108
METHACRYLONITRILE
Concen: 0.5309430 ppb
RT: 3.768 min Scan# 833
Delta R.T. 0.000 min
Lab File: 1016_21.D
Acq: 16 Oct 2015 4:21 pm

Tgt Ion: 67 Resp: 961

Ion	Ratio	Lower	Upper
67	100		
41	0.0	129.0	193.6#
39	0.0	68.3	102.5#
52	0.0	37.0	55.4#

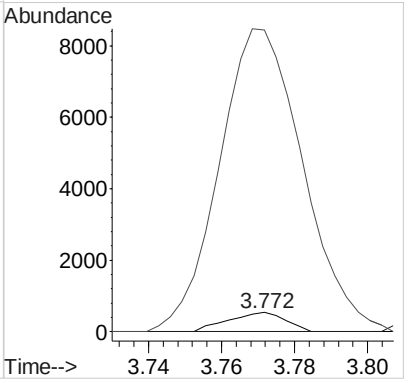


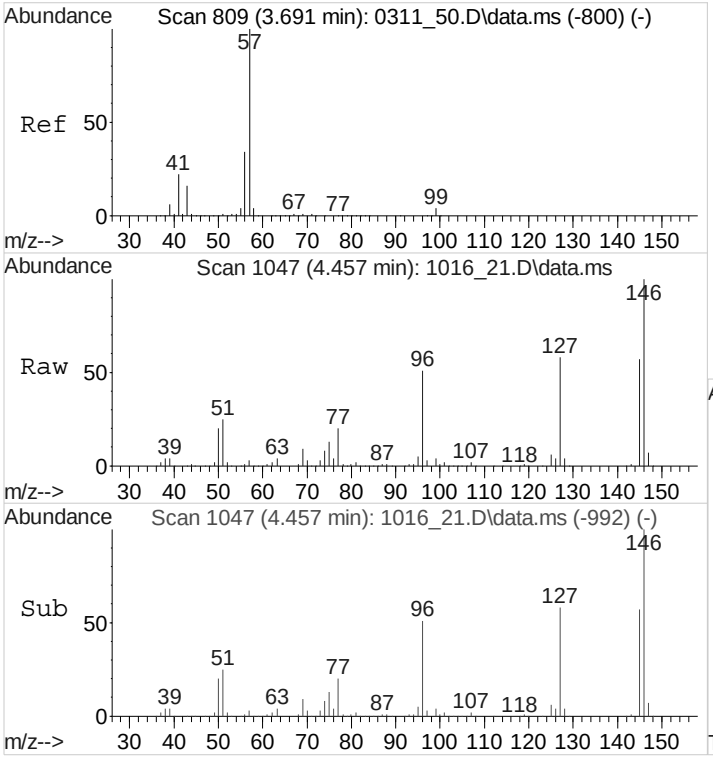


#111
ISOBUTANOL
Concen: 2.0252818 ppb
RT: 3.772 min Scan# 834
Delta R.T. -0.058 min
Lab File: 1016 21.D
Acq: 16 Oct 2015 4:21 pm

Tgt Ion: 43 Resp: 591

Ion	Ratio	Lower	Upper
43	100		
41	0.0	54.1	81.1#
74	2283.9	6.8	10.2#

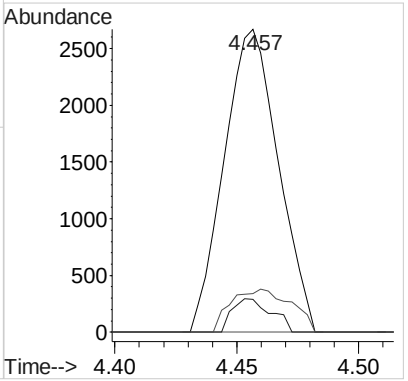




#119
1,4-DIOXANE
Concen: 93.0462245 ppb
RT: 4.457 min Scan# 1047
Delta R.T. -0.074 min
Lab File: 1016_21.D
Acq: 16 Oct 2015 4:21 pm

Tgt Ion: 88 Resp: 4132

Ion	Ratio	Lower	Upper
88	100		
58	0.0	53.9	80.9#
43	15.8	0.0	0.0#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 22.D
Acq On : 16 Oct 2015 4:39 pm
Operator : 189
Sample : L793892-07 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:20:48 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	3.772	168	354283	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	564972	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.228	79	97885	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	276377	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	3.772	168	354283	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.087	114	564972	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.228	79	97885	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	276377	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.531	111	212078	39.7366623	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 99.34%				
46) a,a,a-Trifluorotoluene	4.457	146	324303	44.5113840	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 111.28%				
50) TOLUENE-D8	4.910	98	709339	42.9504396	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 107.38%				
68) 4-BROMOFLUOROBENZENE	6.781	95	264586	43.0417577	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 107.60%				
Target Compounds							Qvalue
3) PROPENE	1.357	41	9022	11.9172540	ppb	#	43
4) DICHLORODIFLUOROMETHANE	1.386	85	2939	0.6374192	ppb	#	85
10) TRICHLOROFLUOROMETHANE	1.955	101	2356	0.3618904	ppb	#	67
11) DICHLOROFLUOROMETHANE	1.994	67	5170	0.6303273	ppb		90
12) ETHYL ETHER	2.129	59	1680	0.5479415	ppb	#	76
16) ACETONE	2.592	43	74798	34.5196674	ppb		91
19) METHYLENE CHLORIDE	2.576	84	2719	0.5440972	ppb	#	88
29) 2-BUTANONE (MEK)	3.588	43	9484	3.0359978	ppb	#	87
31) TETRAHYDROFURAN	3.527	42	1454	0.9119592	ppb	#	45
39) BENZENE	3.765	78	9303	0.4860344	ppb	#	30
42) TRICHLOROETHENE	4.090	130	2611	0.6036855	ppb		99
49) 4-METHYL-2-PENTANONE (...	5.161	43	4358	0.8811337	ppb	#	86
51) TOLUENE	4.945	91	27159	1.4686779	ppb		98
62) ETHYLBENZENE	5.948	106	9916	1.6762980	ppb		90
63) M&P-XYLENE	6.045	106	35746	4.7411387	ppb		96
64) O-XYLENE	6.347	106	8911	1.2361402	ppb		99
65) STYRENE	6.386	104	3696	0.3098794	ppb		92
67) Isopropylbenzene	6.572	105	12440	0.6711179	ppb		97
74) 4-ETHYLTOLUENE	6.945	105	11920	0.6285972	ppb		96
77) 1,3,5-Trimethylbenzene	7.016	105	6896	0.4541990	ppb		91
79) 1,2,4-Trimethylbenzene	7.315	105	18824	1.2267561	ppb		97
86) 1,2,3-TRIMETHYLBENZENE	7.653	105	12146	0.7080084	ppb		99
92) Naphthalene	9.437	128	799202	56.5533715	ppb		99
94) 1-Methylnaphthalene	10.321	142	57430	8.2101350	ppb		97
95) 2-Methylnaphthalene	10.443	142	38550	6.6506266	ppb		95
101) ACETONITRILE	2.849	41	4698	8.1762056	ppb	#	96
103) tert-BUTYL ALCOHOL	2.756	59	1662	2.0434373	ppb	#	65
108) METHACRYLONITRILE	3.768	67	958	0.5217754	ppb	#	1
111) ISOBUTANOL	3.842	43	565	1.9087101	ppb	#	23
115) N-BUTANOL	4.231	56	1269	9.6448992	ppb	#	83
117) 2-nitropropane	5.161	43	4358	3.4230145	ppb	#	43
118) METHYL METHACRYLATE	4.514	41	1638	0.3709449	ppb	#	21
119) 1,4-DIOXANE	4.457	88	4827	114.1131723	ppb	#	16

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 22.D
Acq On : 16 Oct 2015 4:39 pm
Operator : 189
Sample : L793892-07 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS25

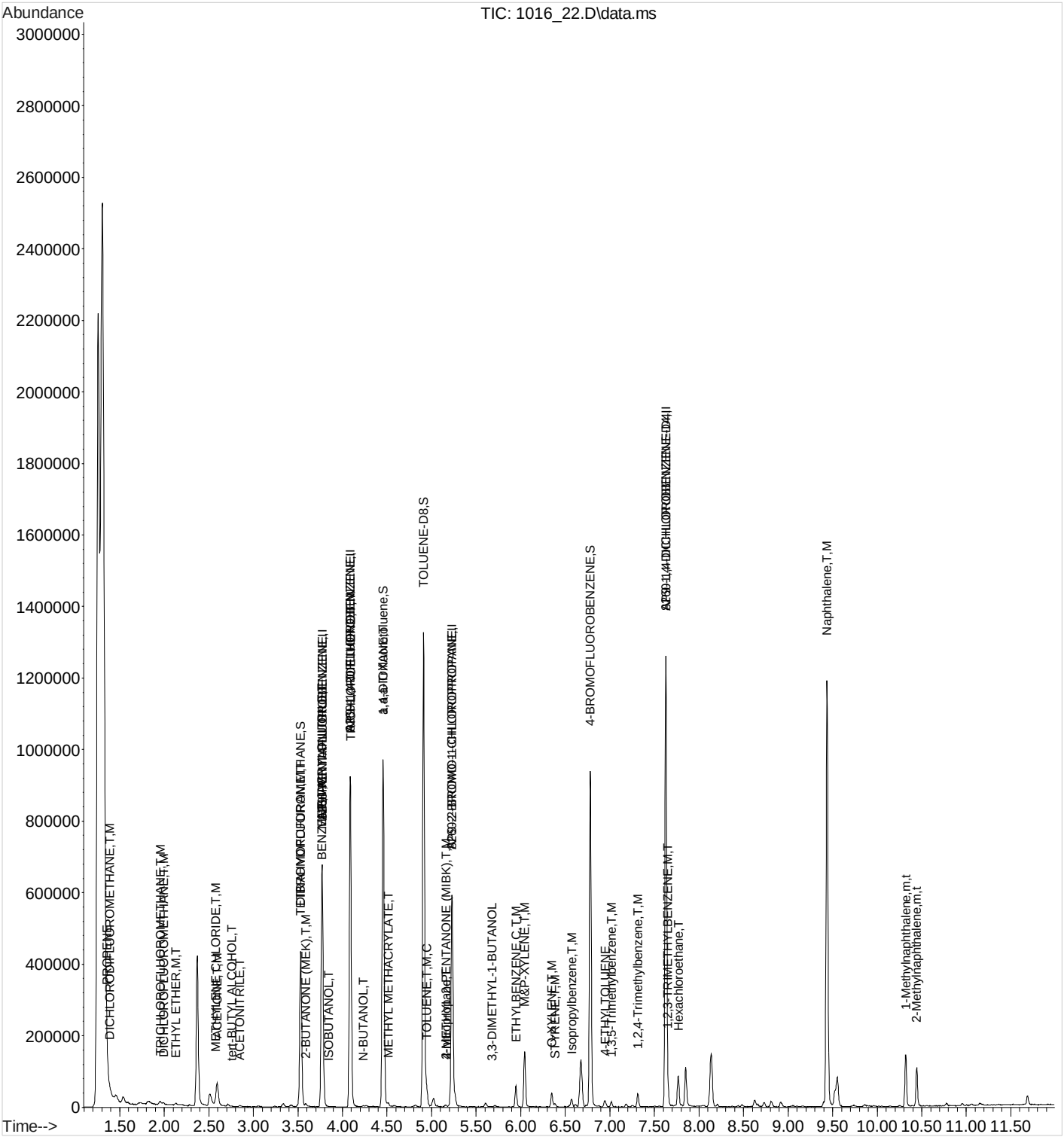
Quant Time: Oct 17 10:20:48 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

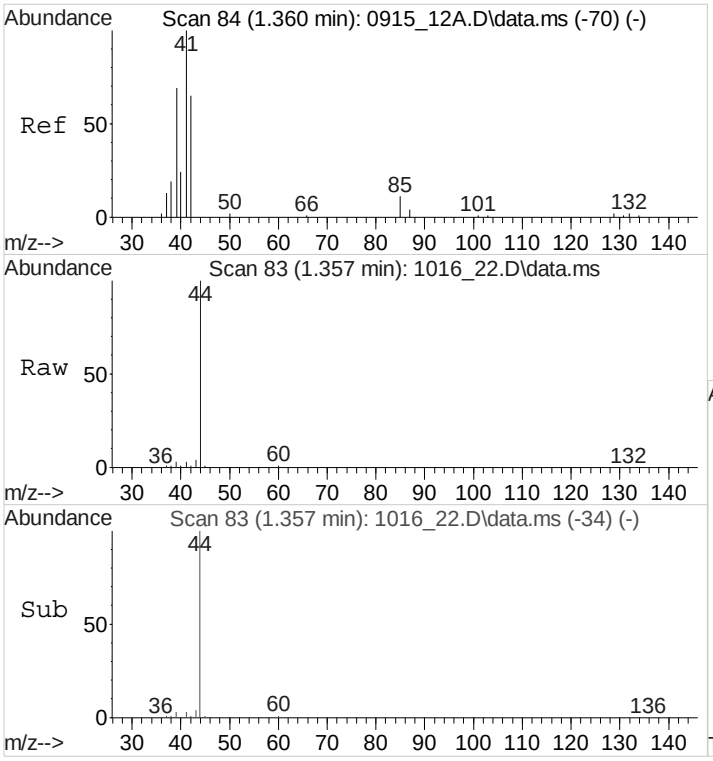
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
121) 3,3-DIMETHYL-1-BUTANOL	5.675	57	755	1.2928981 ppb #	13
127) Hexachloroethane	7.768	117	39489	11.2957554 ppb #	17

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

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 22.D
Acq On : 16 Oct 2015 4:39 pm
Operator : 189
Sample : L793892-07 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:20:48 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

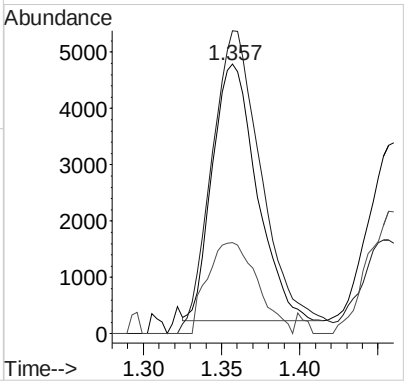


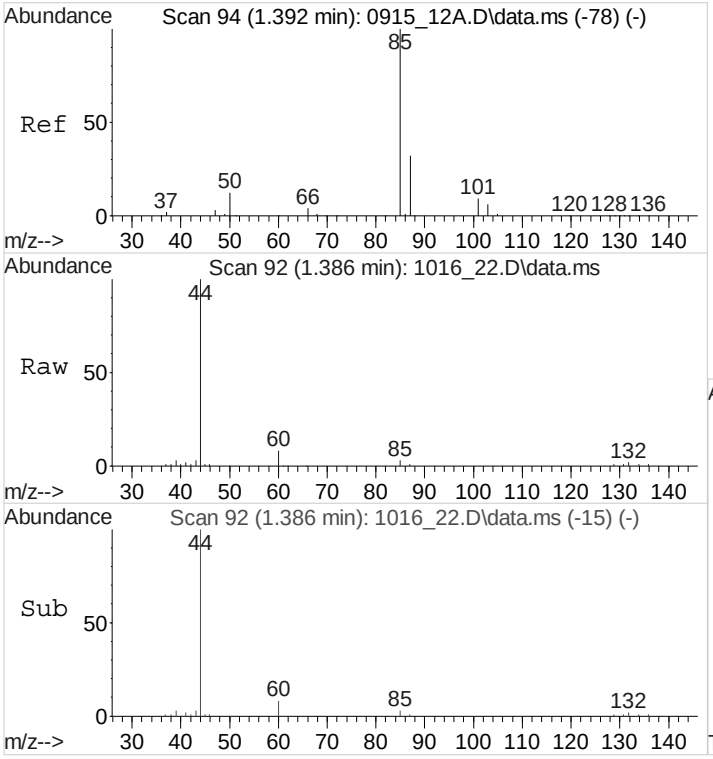


#3
PROPENE
Concen: 11.9172540 ppb
RT: 1.357 min Scan# 83
Delta R.T. 0.007 min
Lab File: 1016 22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion: 41 Resp: 9022

Ion	Ratio	Lower	Upper
41	100		
39	135.1	55.2	82.8#
42	39.9	51.4	77.2#

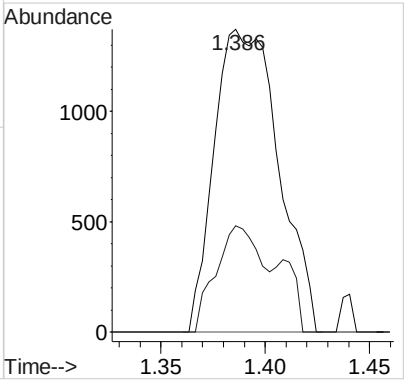


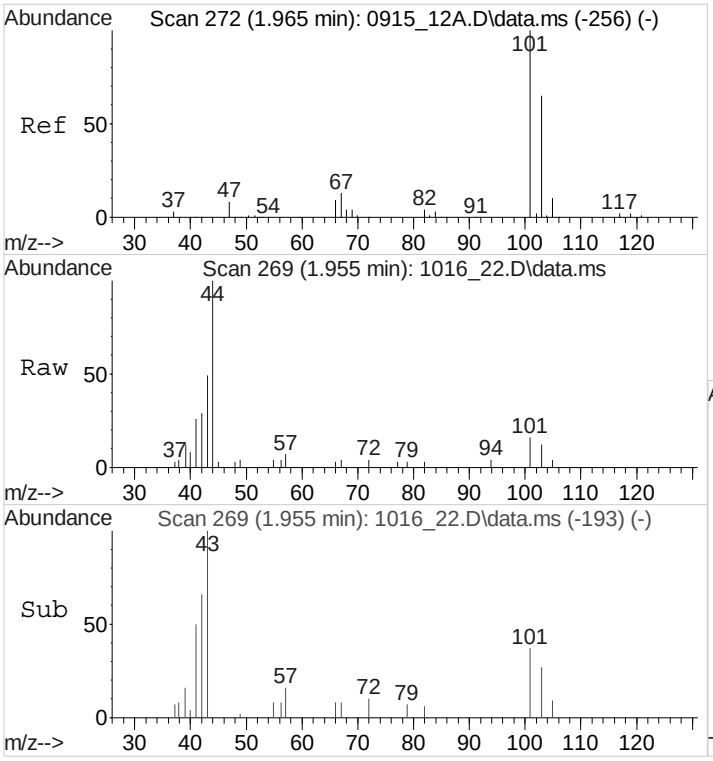


#4
DICHLORODIFLUOROMETHANE
Concen: 0.6374192 ppb
RT: 1.386 min Scan# 92
Delta R.T. -0.003 min
Lab File: 1016_22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion: 85 Resp: 2939

Ion	Ratio	Lower	Upper
85	100		
87	24.7	26.6	39.8#

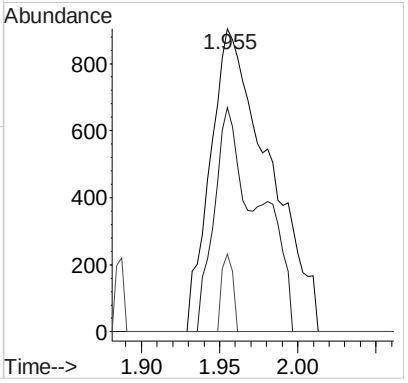


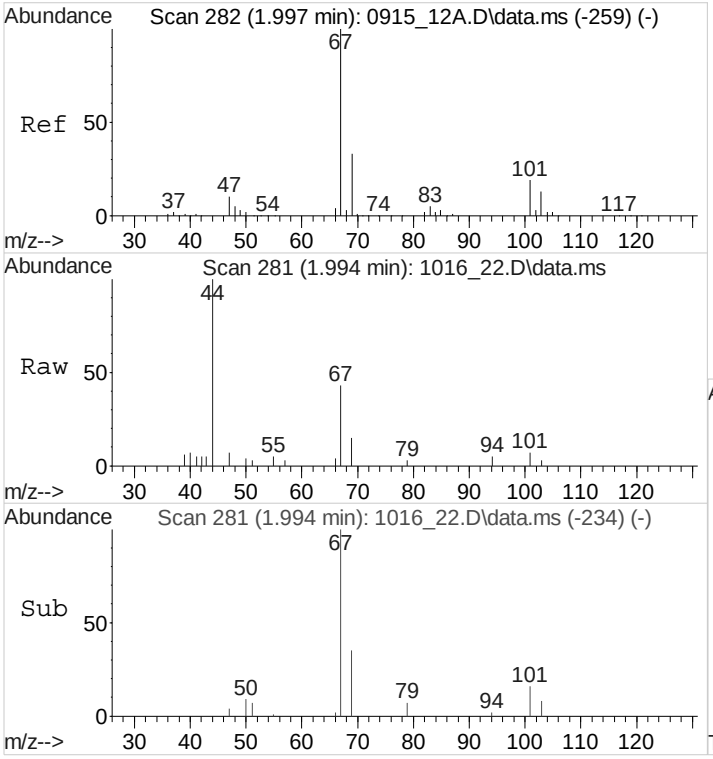


#10
TRICHLOROFLUOROMETHANE
Concen: 0.3618904 ppb
RT: 1.955 min Scan# 269
Delta R.T. -0.006 min
Lab File: 1016 22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion:101 Resp: 2356

Ion	Ratio	Lower	Upper
101	100		
103	37.9	51.7	77.5#
105	0.0	8.6	13.0#

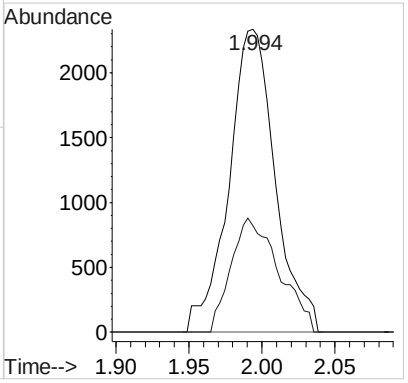


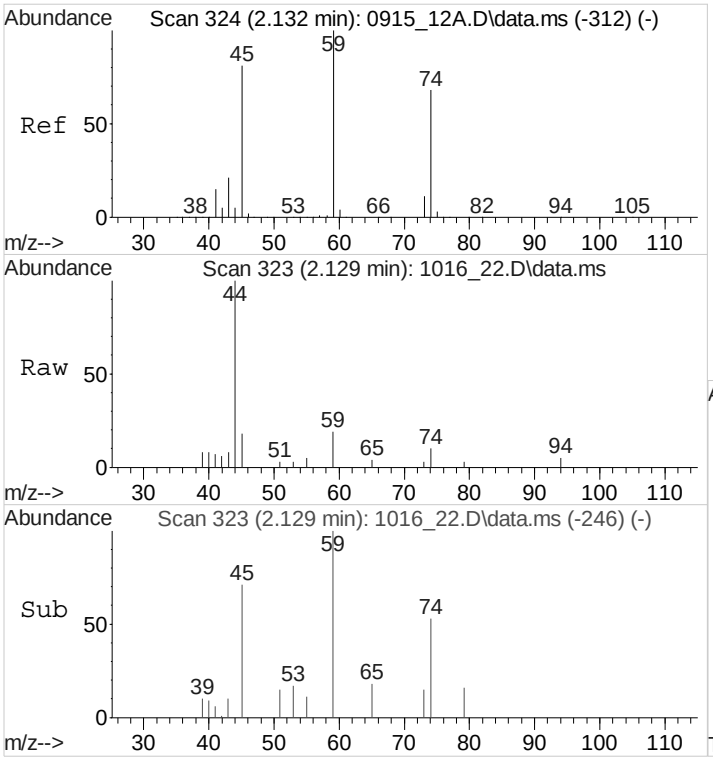


#11
DICHLOROFLUOROMETHANE
Concen: 0.6303273 ppb
RT: 1.994 min Scan# 281
Delta R.T. 0.000 min
Lab File: 1016_22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion: 67 Resp: 5170

Ion	Ratio	Lower	Upper
67	100		
69	38.7	26.5	39.7

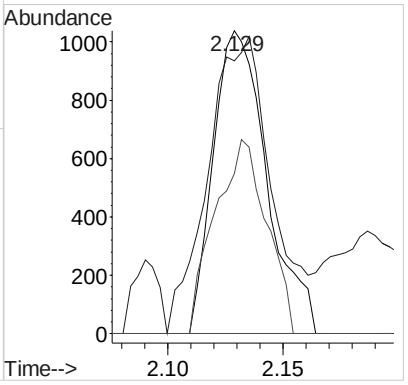


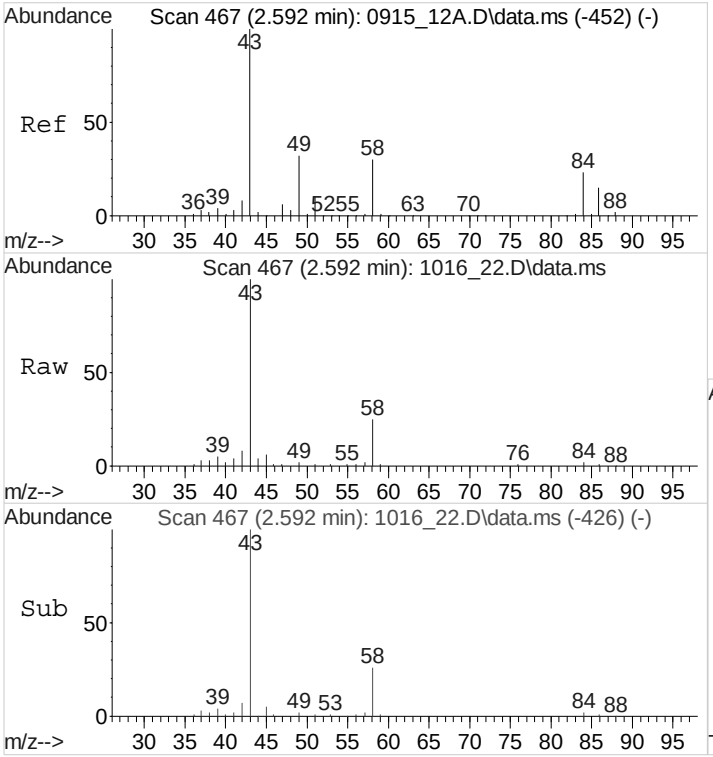


#12
ETHYL ETHER
Concen: 0.5479415 ppb
RT: 2.129 min Scan# 323
Delta R.T. -0.003 min
Lab File: 1016 22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion: 59 Resp: 1680

Ion	Ratio	Lower	Upper
59	100		
45	116.1	65.8	98.8#
74	61.7	54.2	81.4

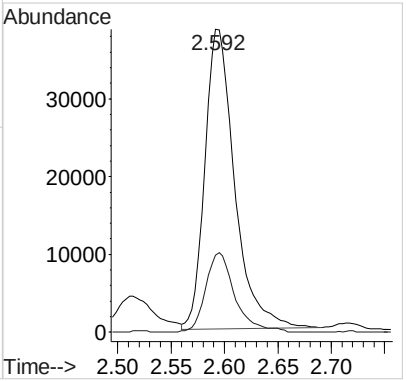


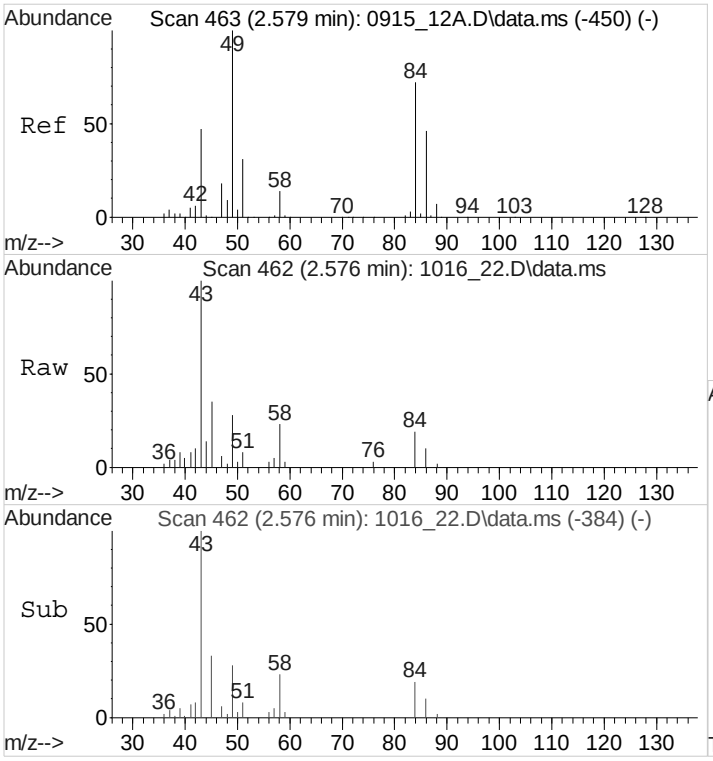


#16
ACETONE
Concen: 34.5196674 ppb
RT: 2.592 min Scan# 467
Delta R.T. 0.001 min
Lab File: 1016_22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion: 43 Resp: 74798

Ion	Ratio	Lower	Upper
43	100		
58	26.0	25.0	37.4

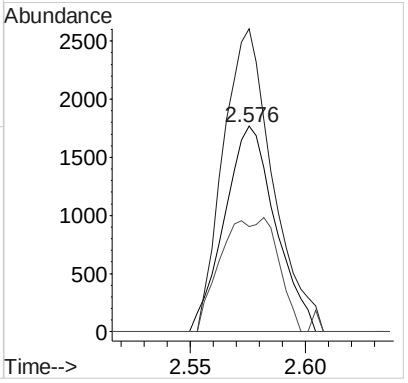


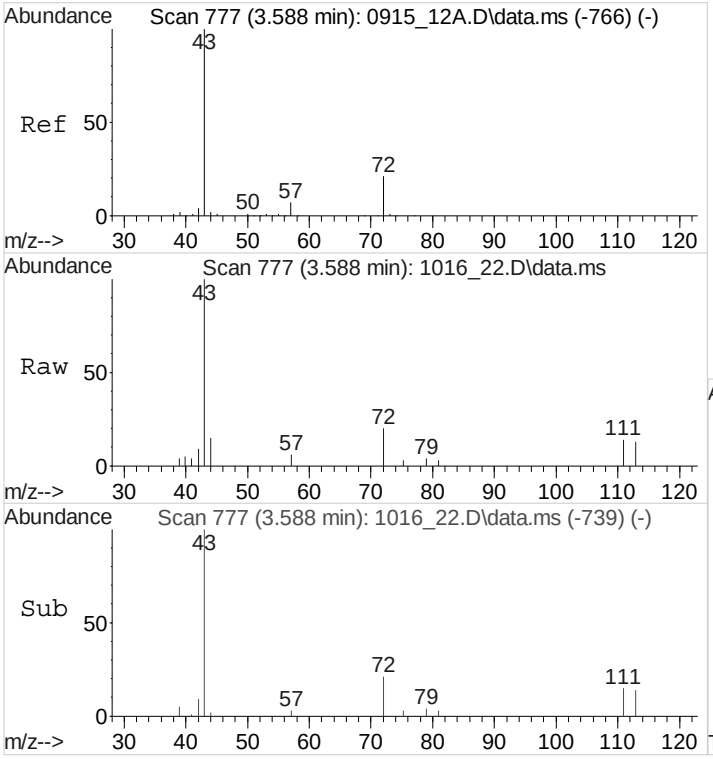


#19
METHYLENE CHLORIDE
Concen: 0.5440972 ppb
RT: 2.576 min Scan# 462
Delta R.T. 0.001 min
Lab File: 1016 22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion: 84 Resp: 2719

Ion	Ratio	Lower	Upper
84	100		
49	142.7	115.0	172.4
86	34.4	51.4	77.2#

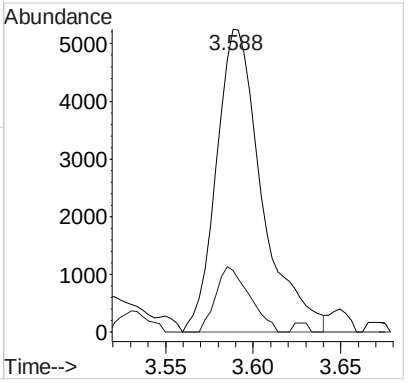


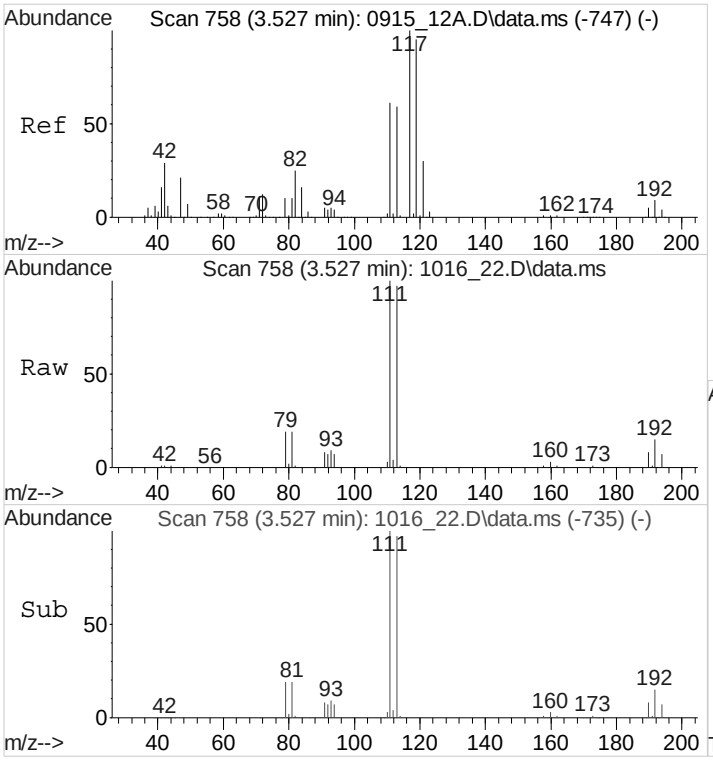


#29
2-BUTANONE (MEK)
Concen: 3.0359978 ppb
RT: 3.588 min Scan# 777
Delta R.T. 0.003 min
Lab File: 1016_22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion: 43 Resp: 9484

Ion	Ratio	Lower	Upper
43	100		
72	16.0	17.7	26.5#

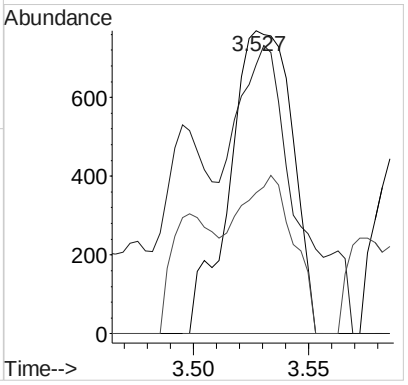


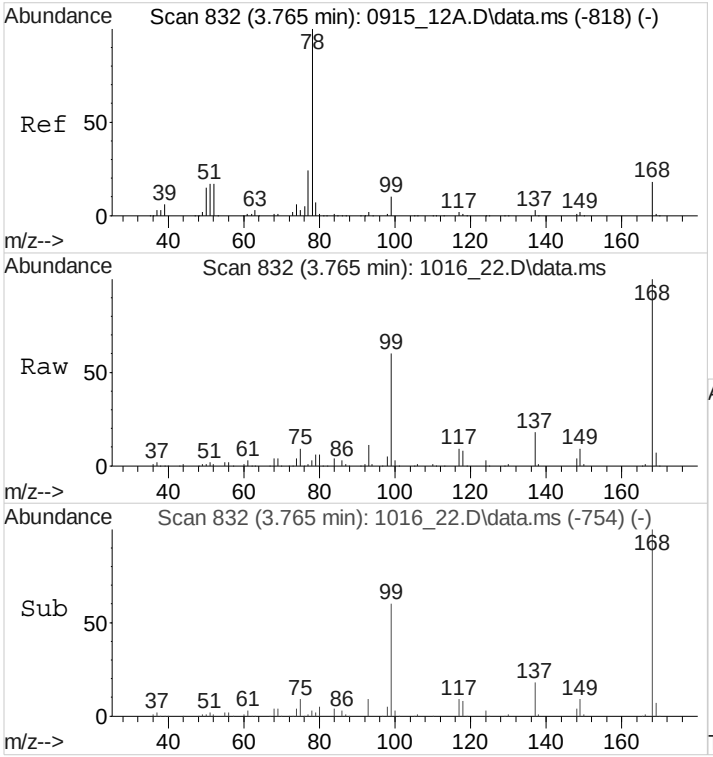


#31
TETRAHYDROFURAN
Concen: 0.9119592 ppb
RT: 3.527 min Scan# 758
Delta R.T. 0.000 min
Lab File: 1016 22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion: 42 Resp: 1454

Ion	Ratio	Lower	Upper
42	100		
41	95.6	43.5	65.3#
39	44.4	17.4	26.2#

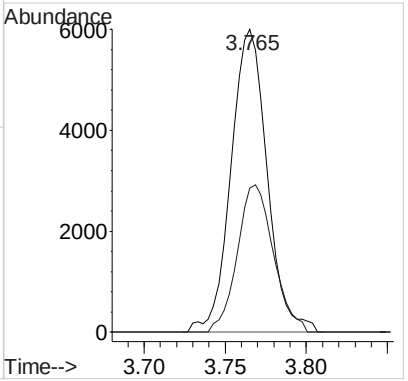


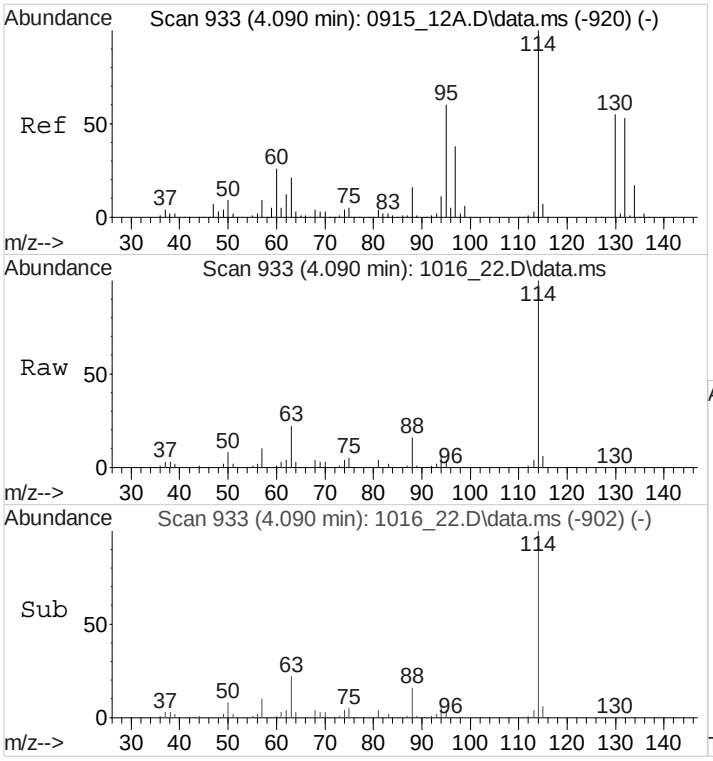


#39
BENZENE
Concen: 0.4860344 ppb
RT: 3.765 min Scan# 832
Delta R.T. 0.000 min
Lab File: 1016_22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion: 78 Resp: 9303

Ion	Ratio	Lower	Upper
78	100		
51	48.6	14.3	21.5#

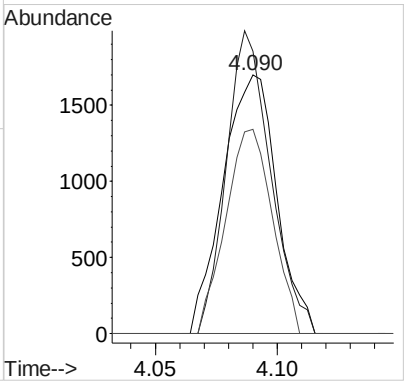


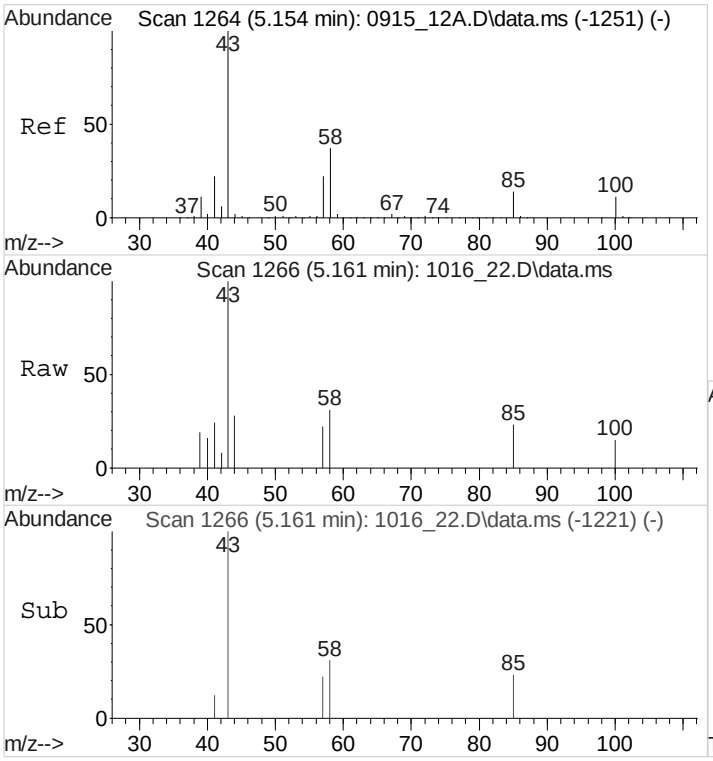


#42
TRICHLOROETHENE
Concen: 0.6036855 ppb
RT: 4.090 min Scan# 933
Delta R.T. 0.000 min
Lab File: 1016 22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion:130 Resp: 2611

Ion	Ratio	Lower	Upper
130	100		
132	96.4	76.6	115.0
97	68.6	54.4	81.6

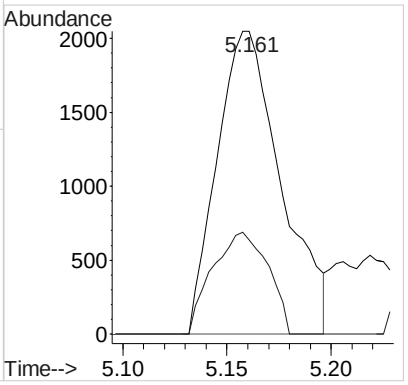


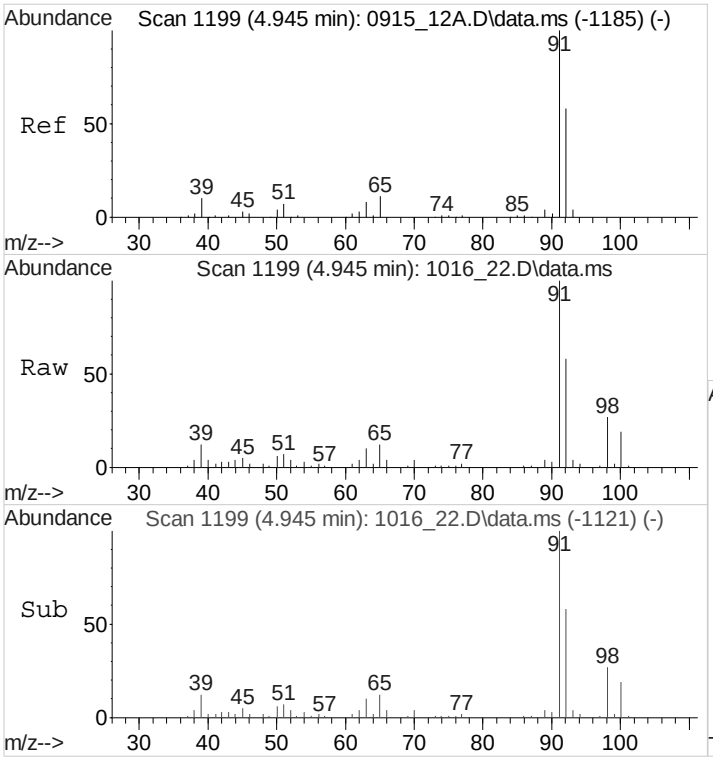


#49
4-METHYL-2-PENTANONE (MIBK)
Concen: 0.8811337 ppb
RT: 5.161 min Scan# 1266
Delta R.T. 0.007 min
Lab File: 1016_22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion: 43 Resp: 4358

Ion	Ratio	Lower	Upper
43	100		
58	29.3	29.9	44.9#

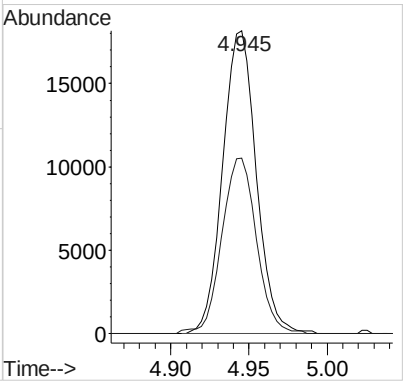


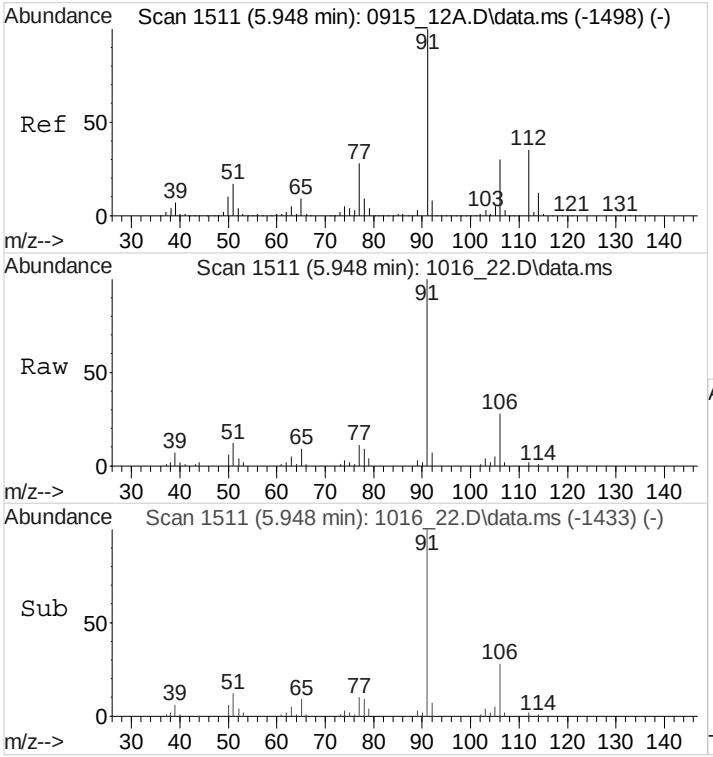


#51
TOLUENE
Concen: 1.4686779 ppb
RT: 4.945 min Scan# 1199
Delta R.T. 0.000 min
Lab File: 1016 22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion: 91 Resp: 27159

Ion	Ratio	Lower	Upper
91	100		
92	59.8	46.4	69.6

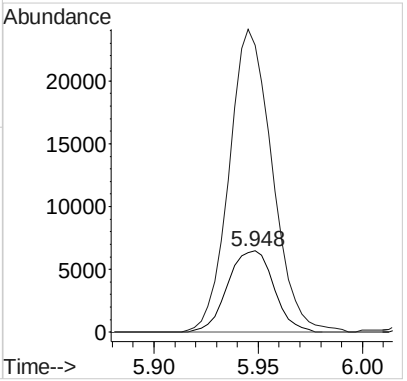


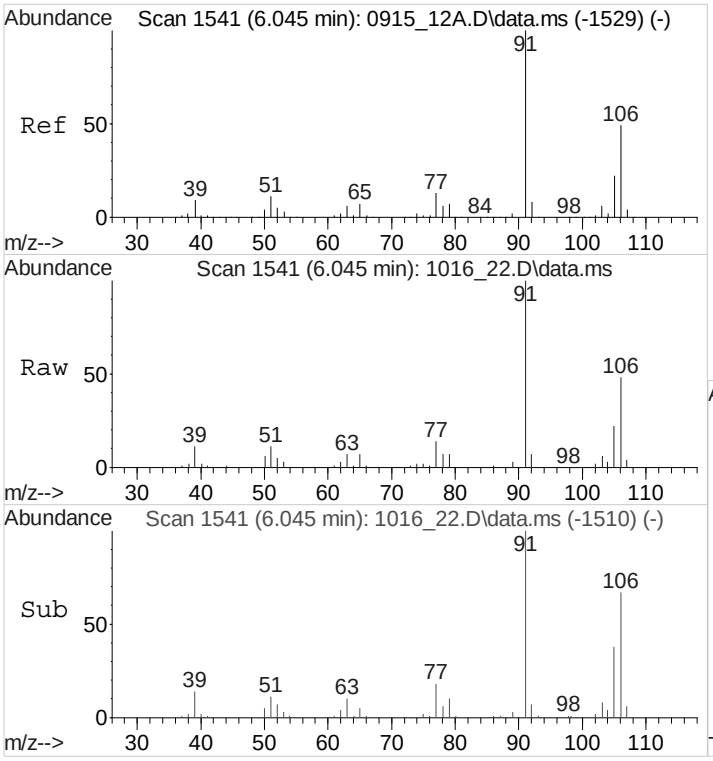


#62
ETHYLBENZENE
Concen: 1.6762980 ppb
RT: 5.948 min Scan# 1511
Delta R.T. 0.000 min
Lab File: 1016_22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion:106 Resp: 9916

Ion	Ratio	Lower	Upper
106	100		
91	348.9	263.2	394.8

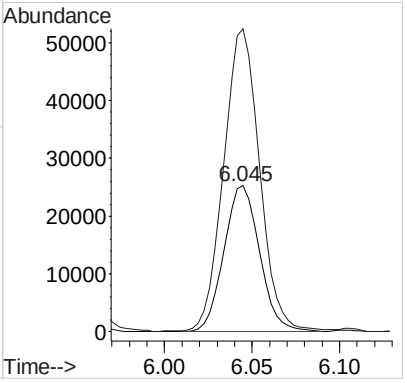


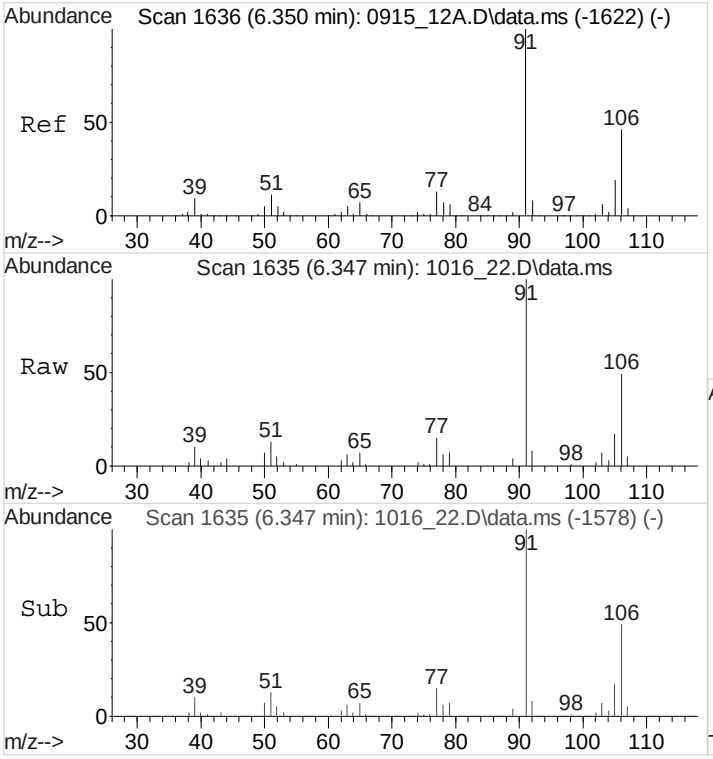


#63
M&P-XYLENE
Concen: 4.7411387 ppb
RT: 6.045 min Scan# 1541
Delta R.T. 0.000 min
Lab File: 1016 22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion:106 Resp: 35746

Ion	Ratio	Lower	Upper
106	100		
91	210.4	163.9	245.9

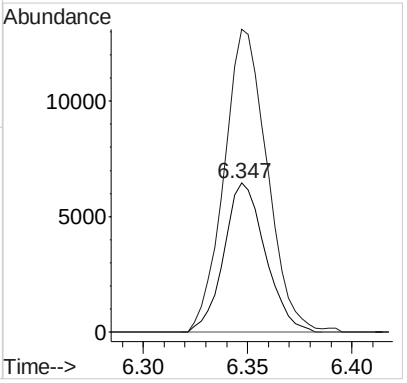


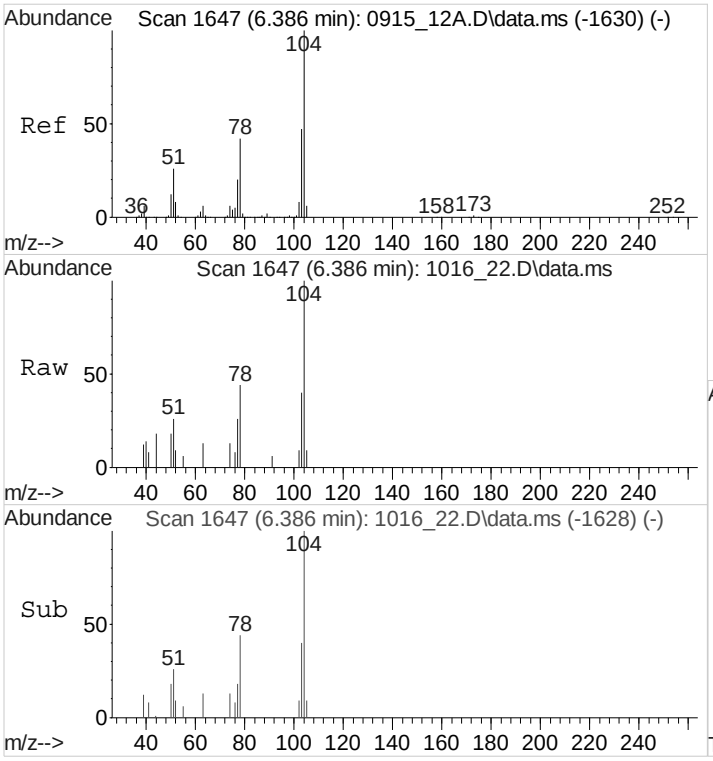


#64
O-XYLENE
Concen: 1.2361402 ppb
RT: 6.347 min Scan# 1635
Delta R.T. -0.003 min
Lab File: 1016_22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion:106 Resp: 8911

Ion	Ratio	Lower	Upper
106	100		
91	211.4	169.8	254.8

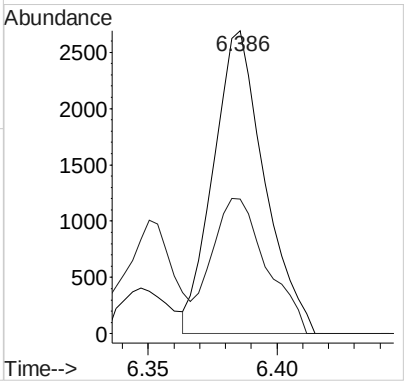


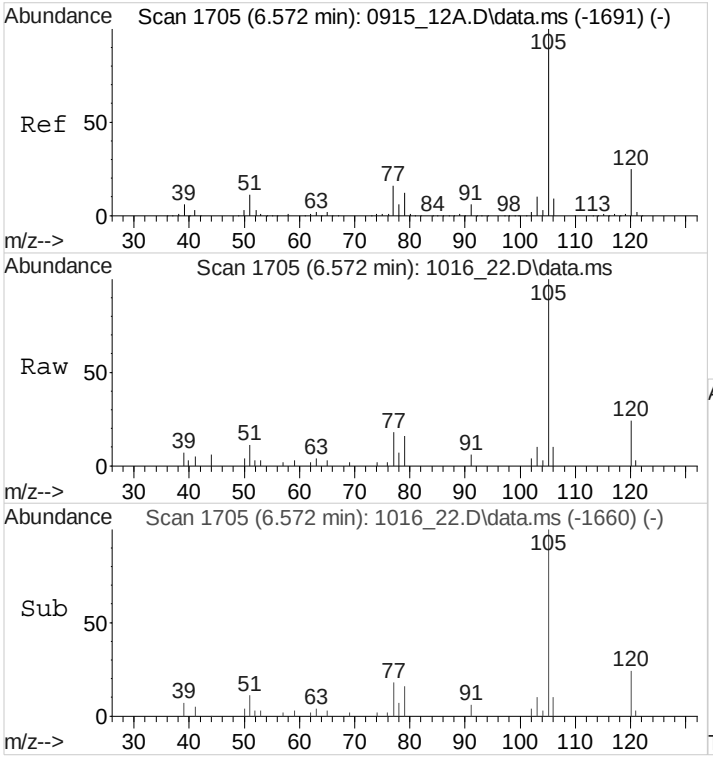


#65
STYRENE
Concen: 0.3098794 ppb
RT: 6.386 min Scan# 1647
Delta R.T. 0.003 min
Lab File: 1016 22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion:104 Resp: 3696

Ion	Ratio	Lower	Upper
104	100		
78	47.8	34.3	51.5

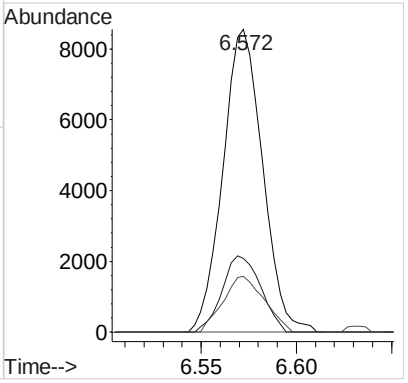


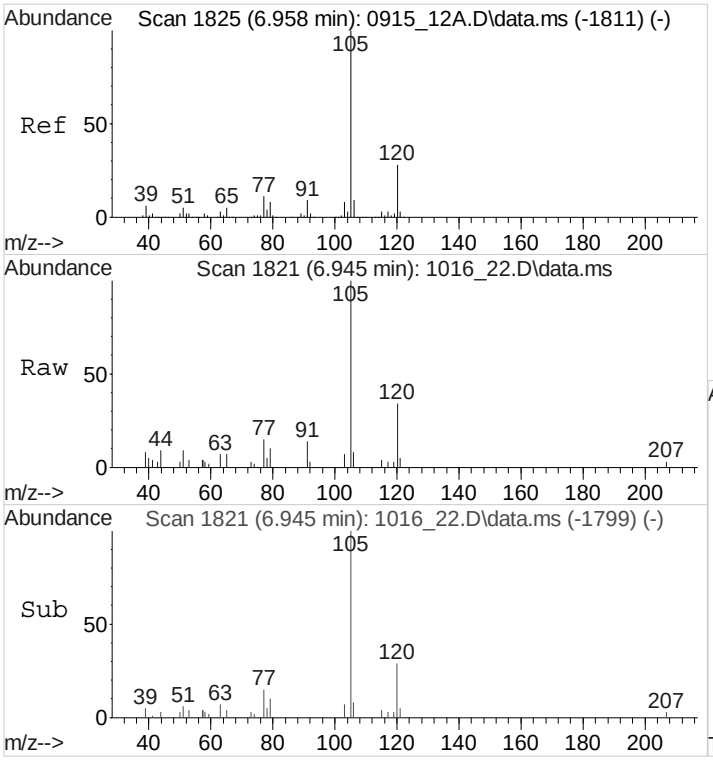


#67
Isopropylbenzene
Concen: 0.6711179 ppb
RT: 6.572 min Scan# 1705
Delta R.T. 0.000 min
Lab File: 1016_22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion:105 Resp: 12440

Ion	Ratio	Lower	Upper
105	100		
120	24.5	19.9	29.9
77	19.1	12.9	19.3

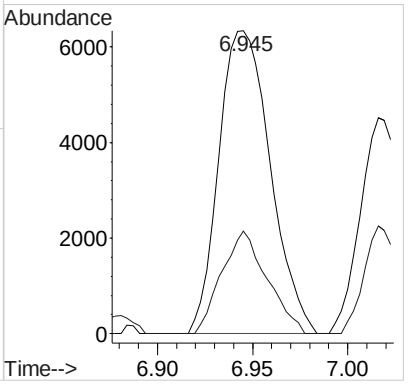


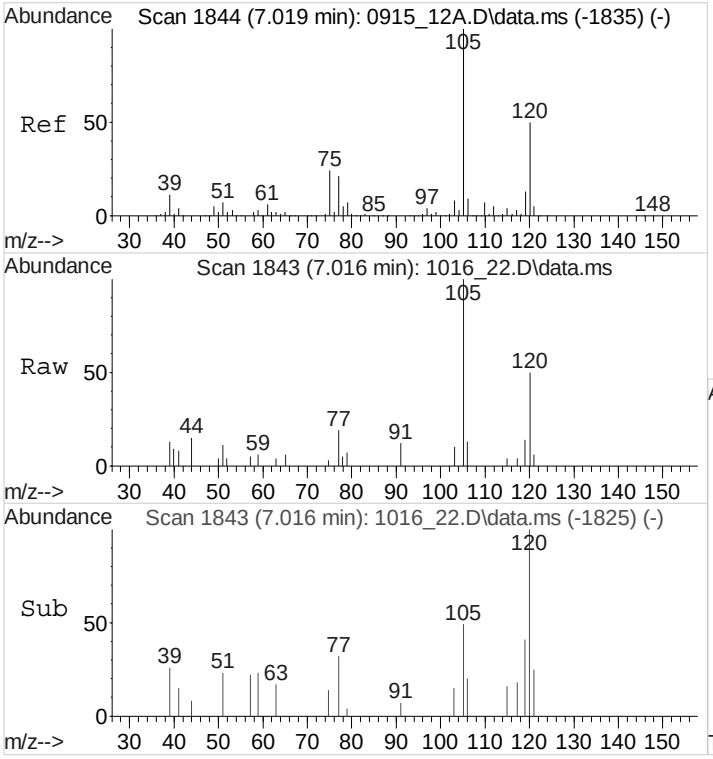


#74
4-ETHYLTOLUENE
Concen: 0.6285972 ppb
RT: 6.945 min Scan# 1821
Delta R.T. -0.010 min
Lab File: 1016 22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion:105 Resp: 11920

Ion	Ratio	Lower	Upper
105	100		
120	29.8	22.3	33.5

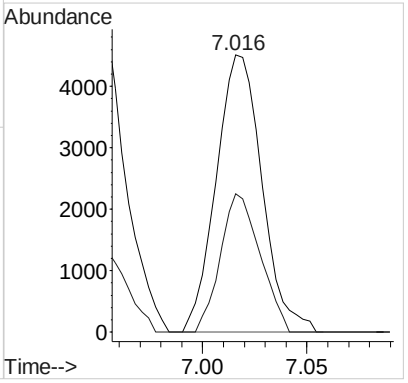


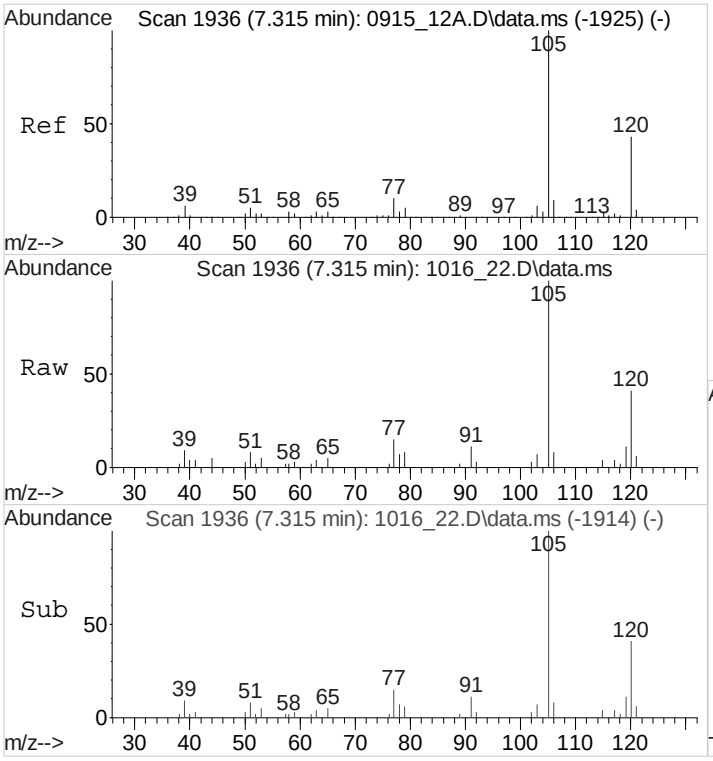


#77
1,3,5-Trimethylbenzene
Concen: 0.4541990 ppb
RT: 7.016 min Scan# 1843
Delta R.T. -0.003 min
Lab File: 1016_22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion:105 Resp: 6896

Ion	Ratio	Lower	Upper
105	100		
120	43.1	39.3	58.9

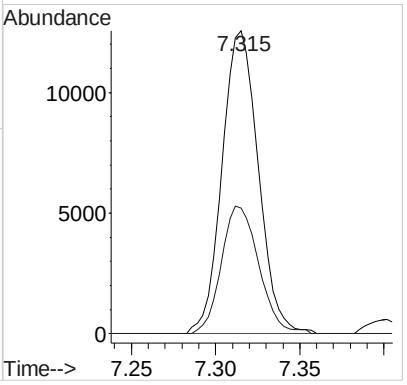


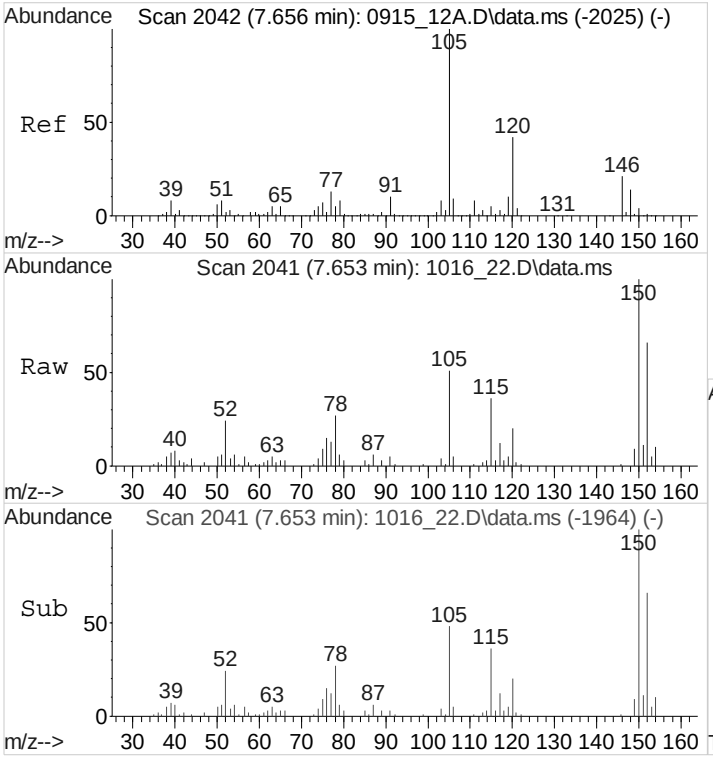


#79
1,2,4-Trimethylbenzene
Concen: 1.2267561 ppb
RT: 7.315 min Scan# 1936
Delta R.T. 0.000 min
Lab File: 1016 22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion:105 Resp: 18824

Ion	Ratio	Lower	Upper
105	100		
120	43.5	36.2	54.2

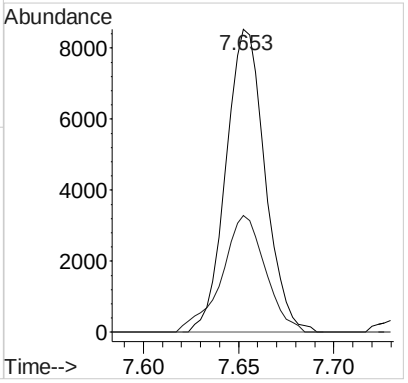


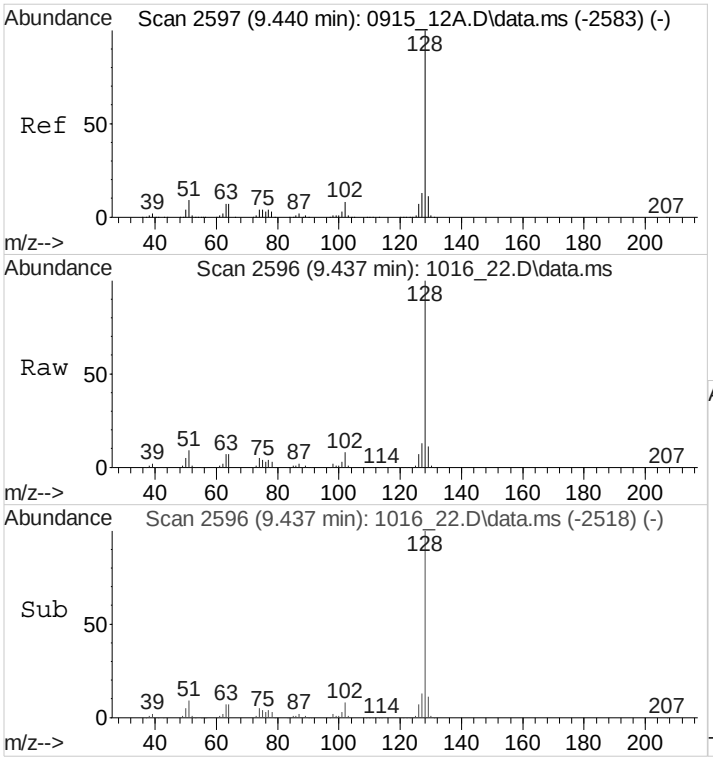


#86
1,2,3-TRIMETHYLBENZENE
Concen: 0.7080084 ppb
RT: 7.653 min Scan# 2041
Delta R.T. -0.003 min
Lab File: 1016_22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion:105 Resp: 12146

Ion	Ratio	Lower	Upper
105	100		
120	43.1	34.2	51.2

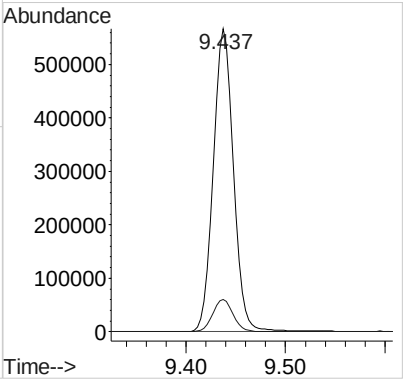


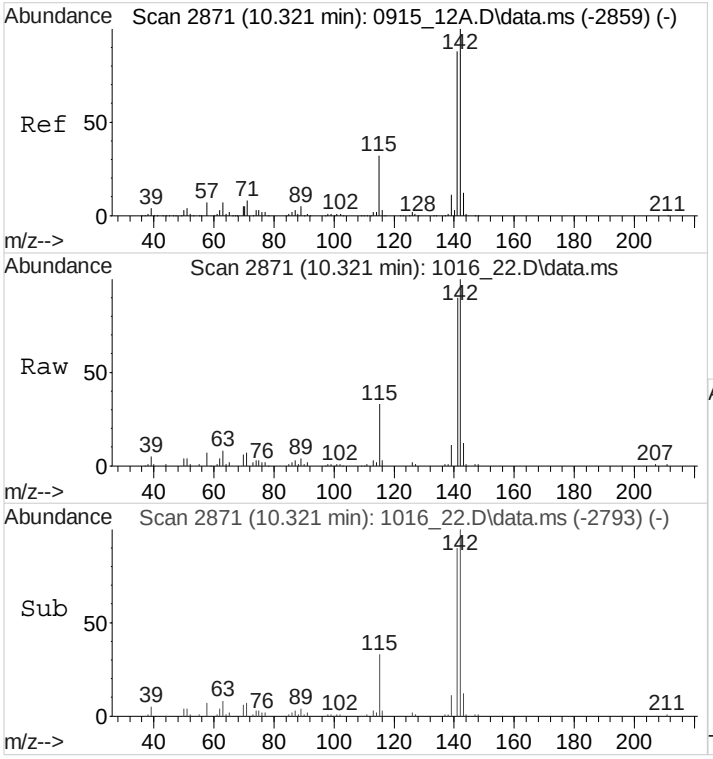


#92
Naphthalene
Concen: 56.5533715 ppb
RT: 9.437 min Scan# 2596
Delta R.T. 0.000 min
Lab File: 1016 22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion:128 Resp: 799202

Ion	Ratio	Lower	Upper
128	100		
129	10.7	8.7	13.1

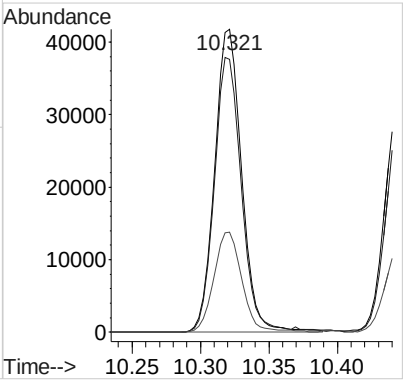


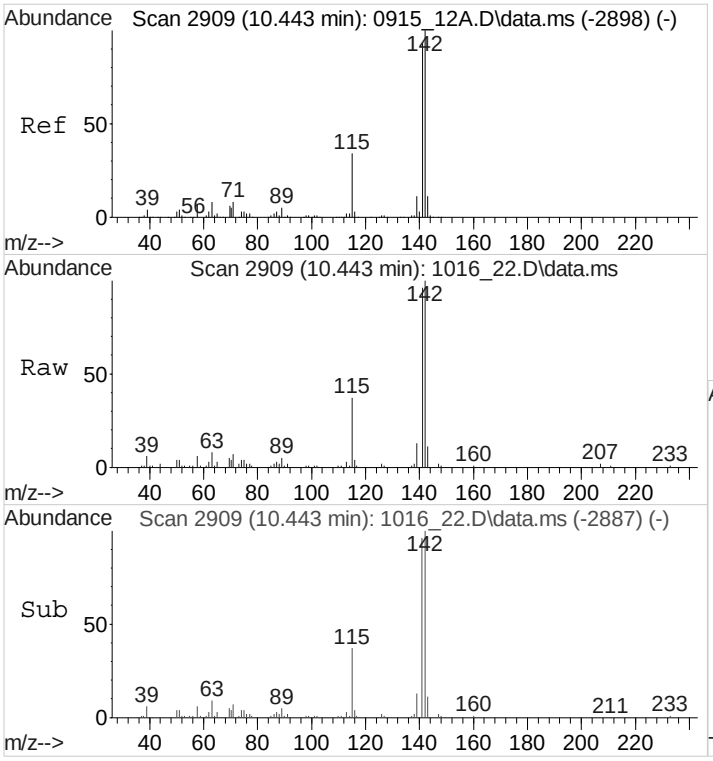


#94
1-Methylnaphthalene
Concen: 8.2101350 ppb
RT: 10.321 min Scan# 2871
Delta R.T. 0.000 min
Lab File: 1016_22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion:142 Resp: 57430

Ion	Ratio	Lower	Upper
142	100		
141	90.4	70.0	105.0
115	33.9	25.6	38.4

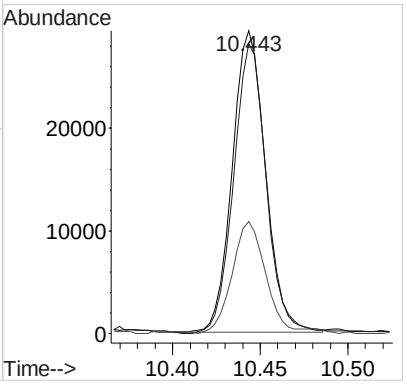


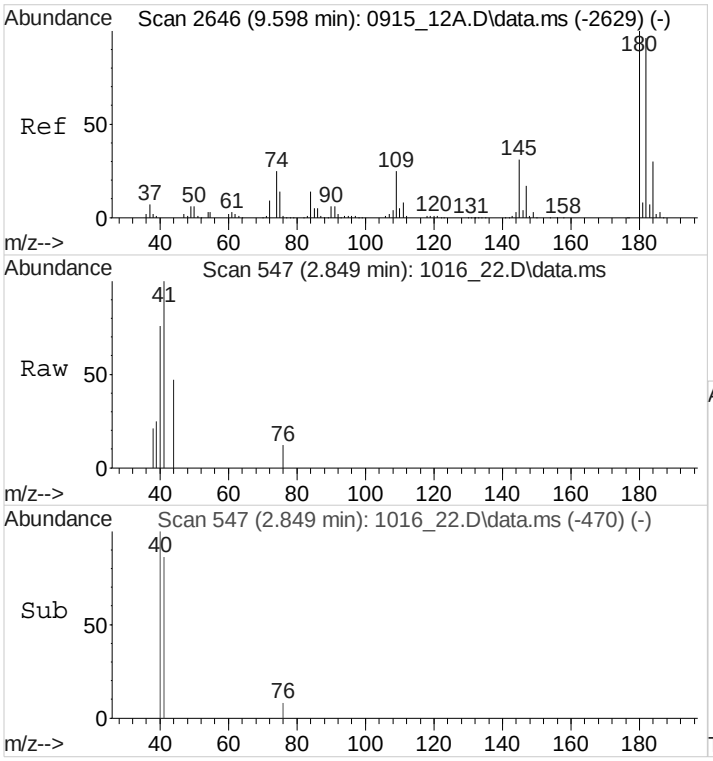


#95
2-Methylnaphthalene
Concen: 6.6506266 ppb
RT: 10.443 min Scan# 2909
Delta R.T. 0.000 min
Lab File: 1016 22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion:142 Resp: 38550

Ion	Ratio	Lower	Upper
142	100		
141	95.6	73.7	110.5
115	38.4	26.9	40.3

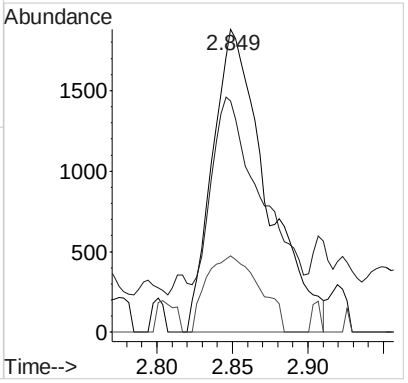


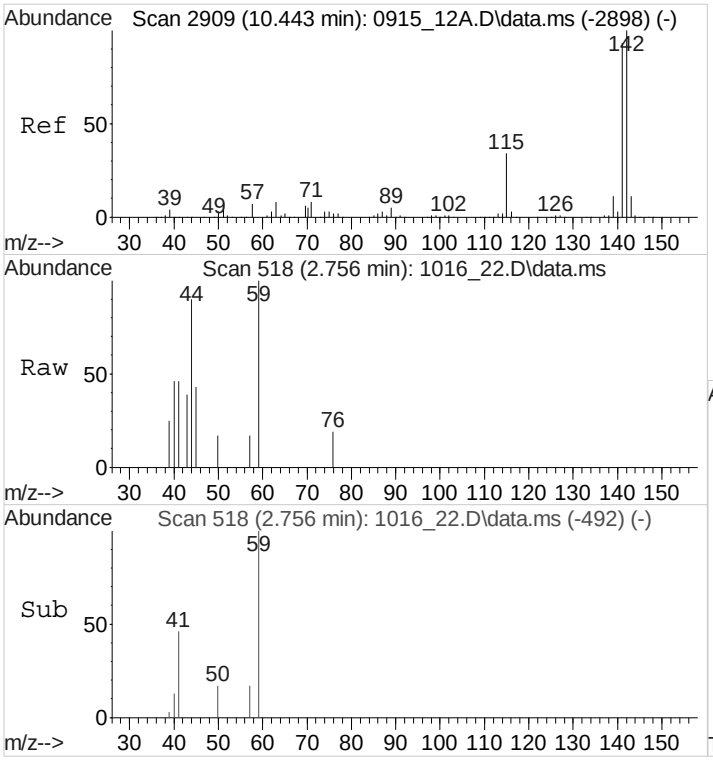


#101
ACETONITRILE
Concen: 8.1762056 ppb
RT: 2.849 min Scan# 547
Delta R.T. -0.003 min
Lab File: 1016_22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion: 41 Resp: 4698

Ion	Ratio	Lower	Upper
41	100		
40	52.4	42.9	64.3
39	24.7	15.4	23.0#

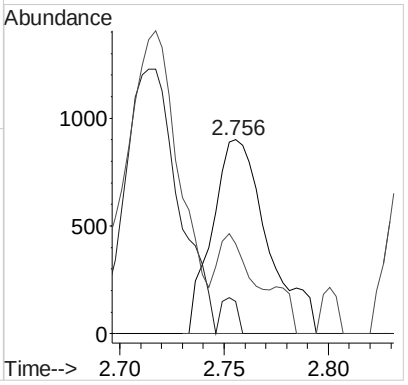


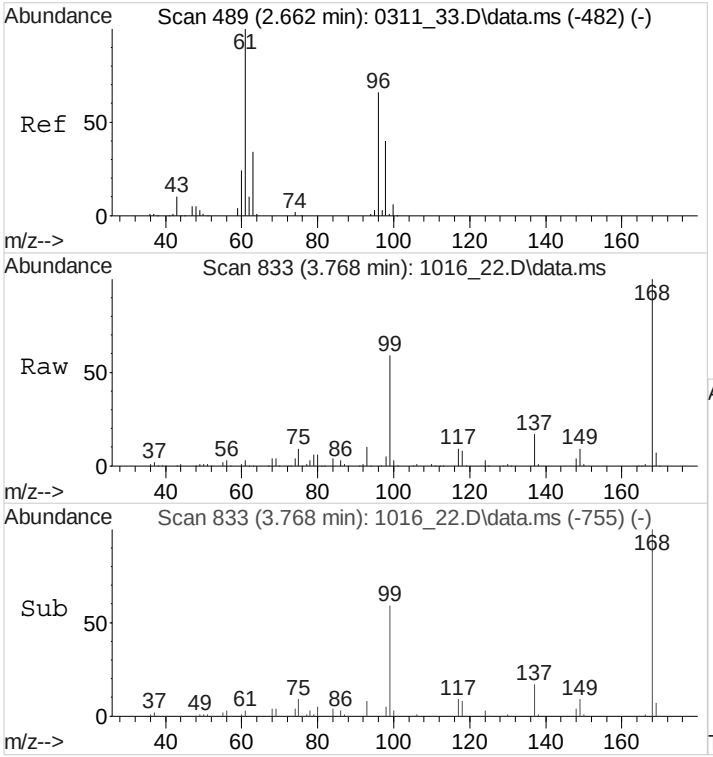


#103
tert-BUTYL ALCOHOL
Concen: 2.0434373 ppb
RT: 2.756 min Scan# 518
Delta R.T. -0.006 min
Lab File: 1016 22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion: 59 Resp: 1662

Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.2#
41	0.0	13.8	20.6#

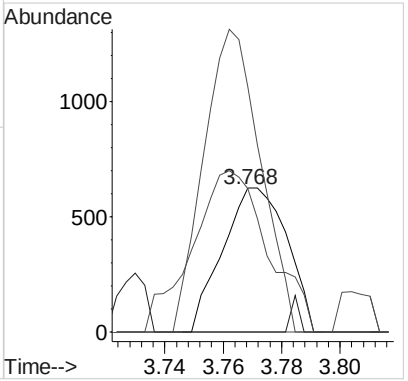


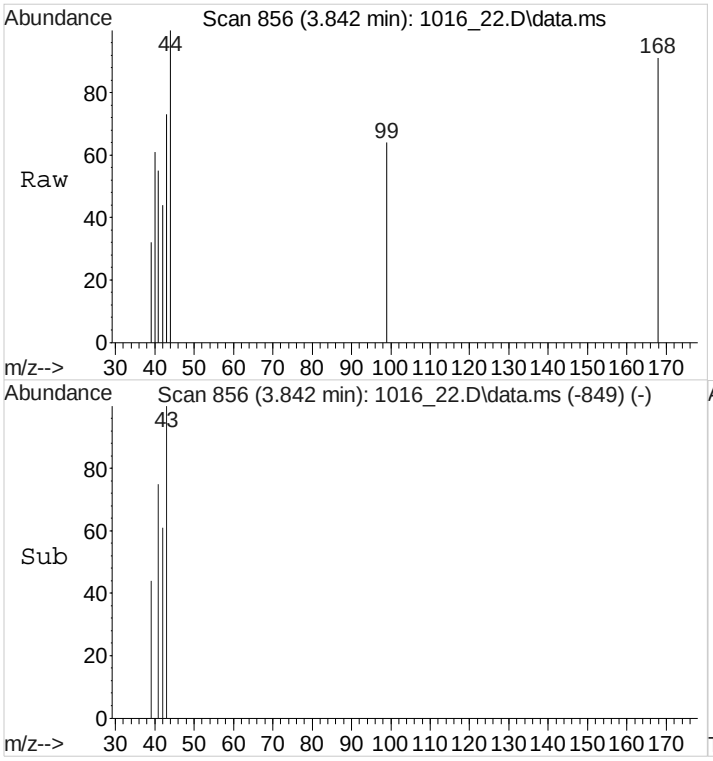


#108
METHACRYLONITRILE
Concen: 0.5217754 ppb
RT: 3.768 min Scan# 833
Delta R.T. 0.000 min
Lab File: 1016_22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion: 67 Resp: 958

Ion	Ratio	Lower	Upper
67	100		
41	0.0	129.0	193.6#
39	132.7	68.3	102.5#
52	185.1	37.0	55.4#

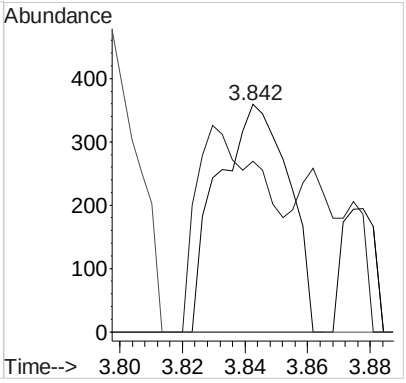


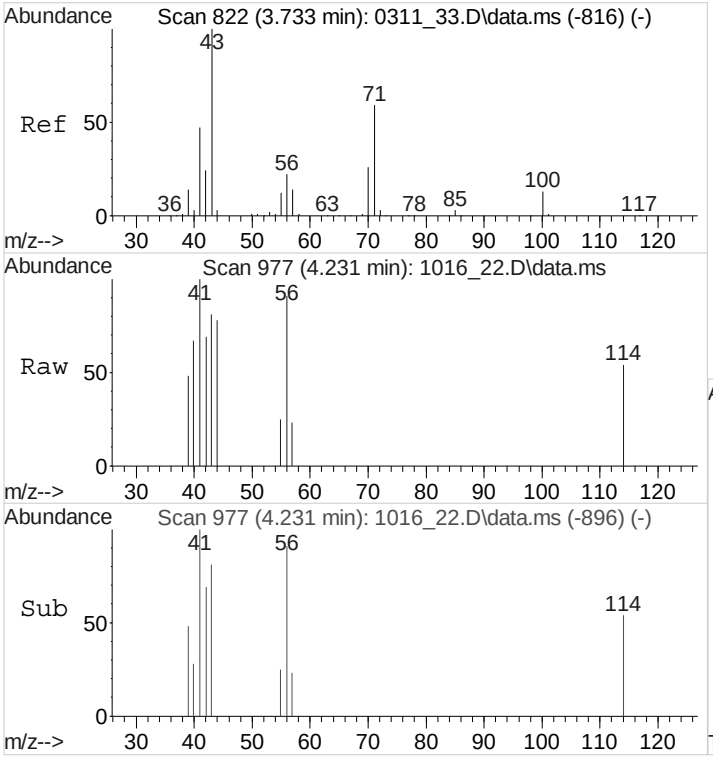


#111
ISOBUTANOL
Concen: 1.9087101 ppb
RT: 3.842 min Scan# 856
Delta R.T. 0.013 min
Lab File: 1016 22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion: 43 Resp: 565

Ion	Ratio	Lower	Upper
43	100		
41	0.0	54.1	81.1#
74	0.0	6.8	10.2#

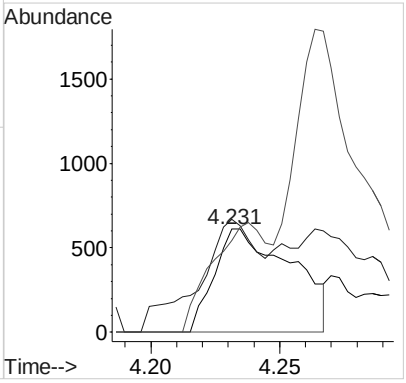


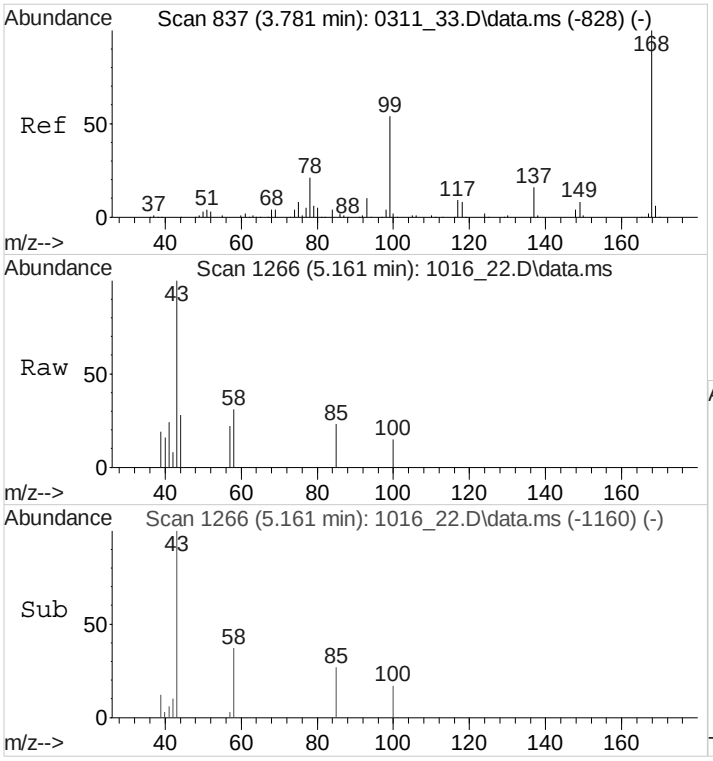


#115
N-BUTANOL
Concen: 9.6448992 ppb
RT: 4.231 min Scan# 977
Delta R.T. 0.010 min
Lab File: 1016_22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion: 56 Resp: 1269

Ion	Ratio	Lower	Upper
56	100		
41	84.3	60.6	90.8
43	78.9	47.0	70.6#

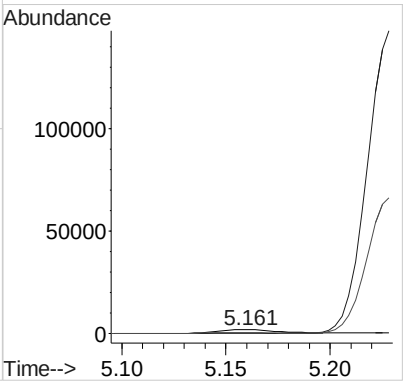


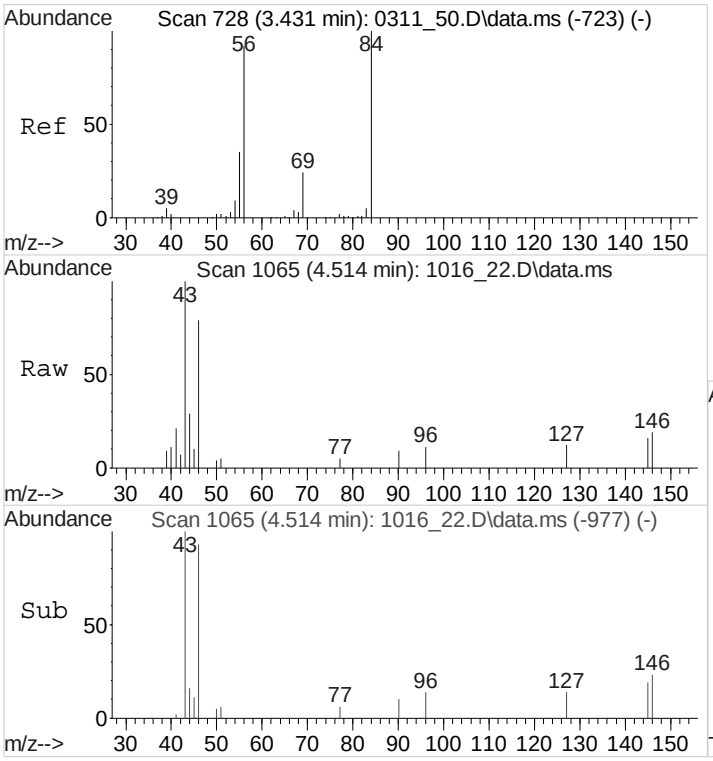


#117
2-nitropropane
Concen: 3.4230145 ppb
RT: 5.161 min Scan# 1266
Delta R.T. 0.090 min
Lab File: 1016 22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion: 43 Resp: 4358

Ion	Ratio	Lower	Upper
43	100		
41	18.8	67.8	101.8#
39	22.9	23.6	35.4#

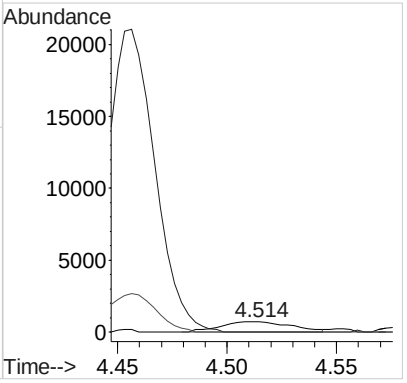


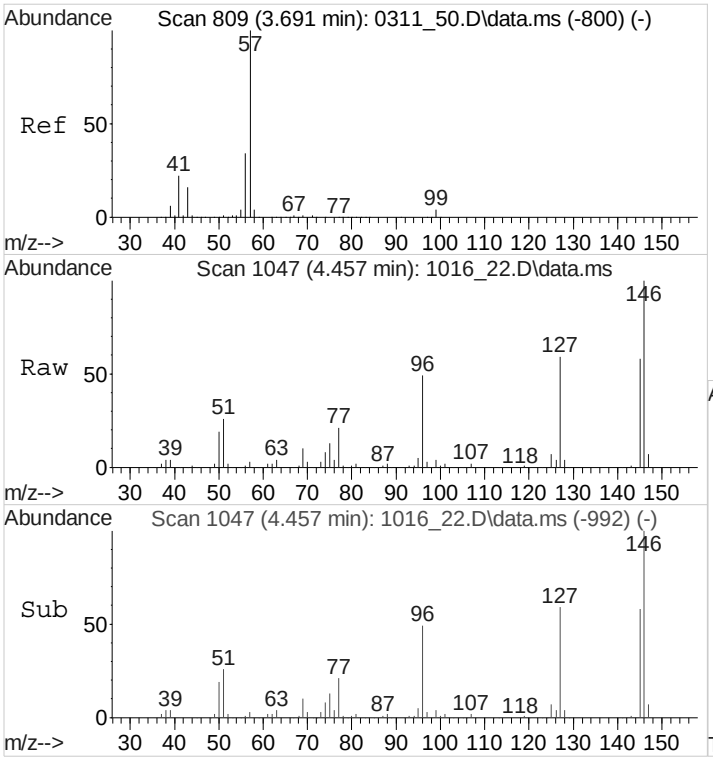


#118
METHYL METHACRYLATE
Concen: 0.3709449 ppb
RT: 4.514 min Scan# 1065
Delta R.T. 0.032 min
Lab File: 1016_22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion: 41 Resp: 1638

Ion	Ratio	Lower	Upper
41	100		
69	0.0	60.0	90.0#
100	0.0	20.4	30.6#

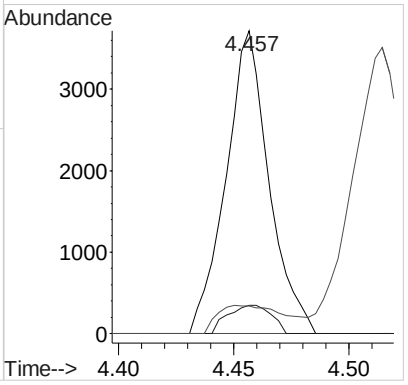


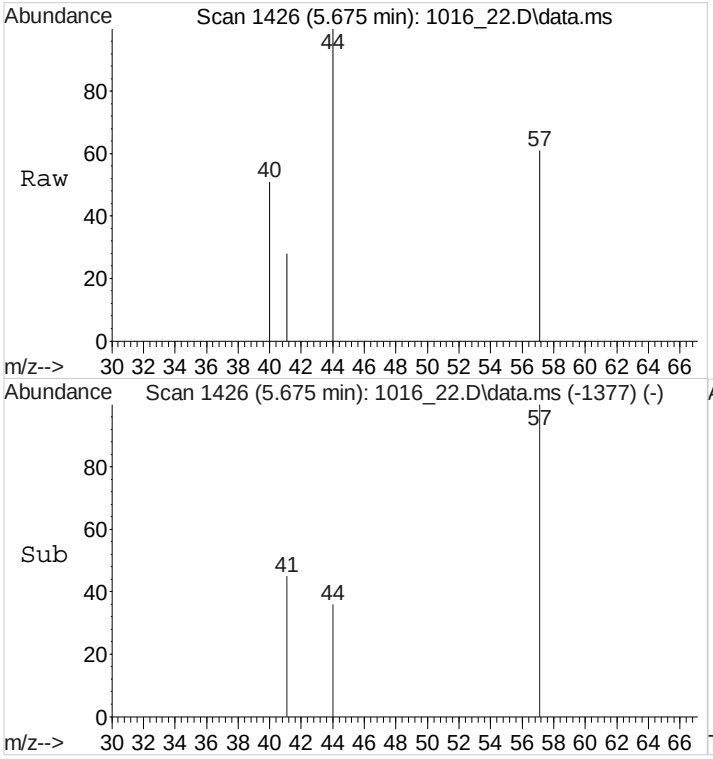


#119
1,4-DIOXANE
Concen: 114.1131723 ppb
RT: 4.457 min Scan# 1047
Delta R.T. -0.074 min
Lab File: 1016 22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion: 88 Resp: 4827

Ion	Ratio	Lower	Upper
88	100		
58	0.0	53.9	80.9#
43	15.2	0.0	0.0#

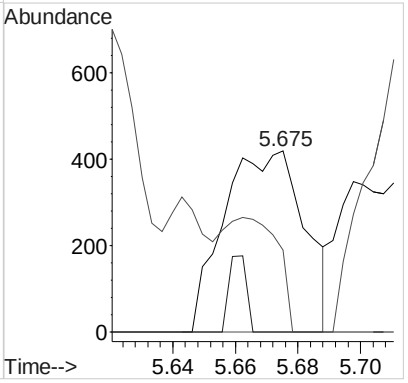


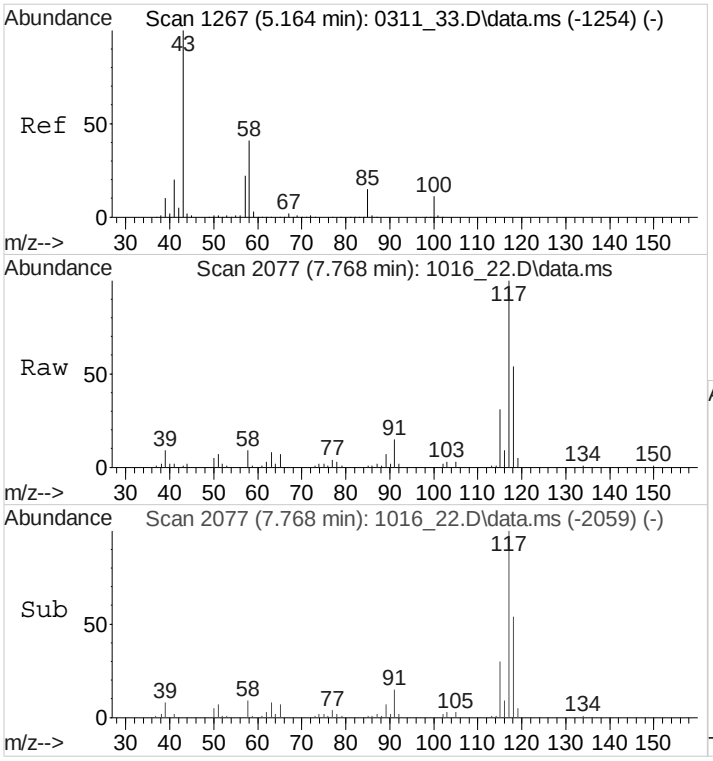


#121
3,3-DIMETHYL-1-BUTANOL
Concen: 1.2928981 ppb
RT: 5.675 min Scan# 1426
Delta R.T. 0.007 min
Lab File: 1016_22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion: 57 Resp: 755

Ion	Ratio	Lower	Upper
57	100		
69	0.0	56.8	85.2#
41	0.0	59.6	89.4#

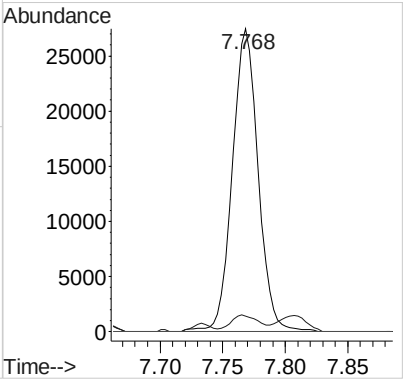




#127
Hexachloroethane
Concen: 11.2957554 ppb
RT: 7.768 min Scan# 2077
Delta R.T. -0.193 min
Lab File: 1016 22.D
Acq: 16 Oct 2015 4:39 pm

Tgt Ion:117 Resp: 39489

Ion	Ratio	Lower	Upper
117	100		
119	6.1	76.4	114.6#
94	0.0	26.6	40.0#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 23.D
Acq On : 16 Oct 2015 4:57 pm
Operator : 189
Sample : L793892-08 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:21:09 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

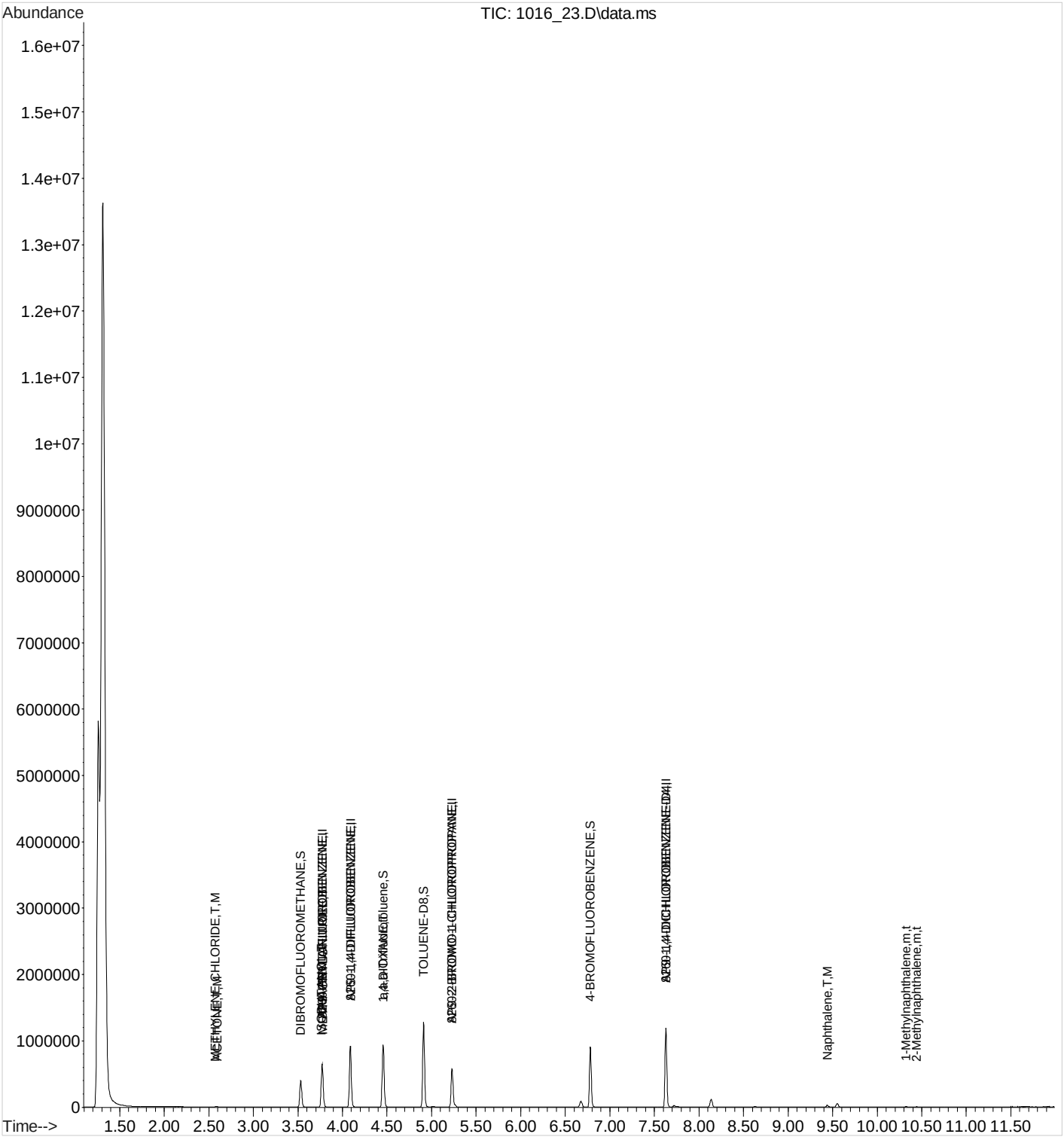
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	3.772	168	346349	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.090	114	580069	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.228	79	94825	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	268758	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	3.772	168	346349	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.090	114	580069	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.228	79	94825	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	268758	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.530	111	199205	38.1796881	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 95.45%				
46) a,a,a-Trifluorotoluene	4.456	146	316965	42.3719752	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 105.93%				
50) TOLUENE-D8	4.910	98	682733	40.2635384	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 100.66%				
68) 4-BROMOFLUOROBENZENE	6.781	95	254450	42.7286220	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 106.82%				
Target Compounds						Qvalue	
3) PROPENE	1.341	41	603	Below Cal	#	17	
16) ACETONE	2.595	43	9231	4.3577443	ppb		99
19) METHYLENE CHLORIDE	2.572	84	2415	0.4943344	ppb		97
92) Naphthalene	9.440	128	20293	1.4766878	ppb		100
94) 1-Methylnaphthalene	10.324	142	3175	0.4667622	ppb		96
95) 2-Methylnaphthalene	10.443	142	2401	0.4259620	ppb		93
108) METHACRYLONITRILE	3.781	67	968	0.5392992	ppb	#	1
111) ISOBUTANOL	3.762	43	732	2.5295251	ppb	#	1
119) 1,4-DIOXANE	4.453	88	4897	112.7550112	ppb	#	16

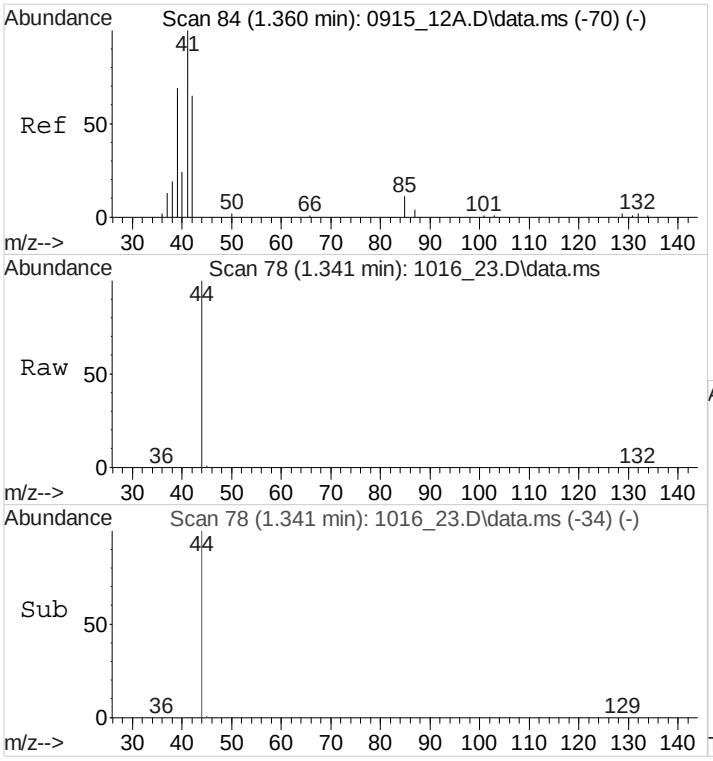
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 23.D
Acq On : 16 Oct 2015 4:57 pm
Operator : 189
Sample : L793892-08 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:21:09 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

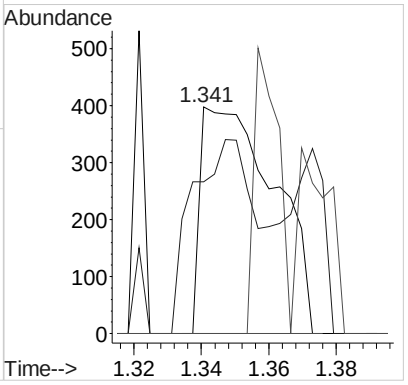


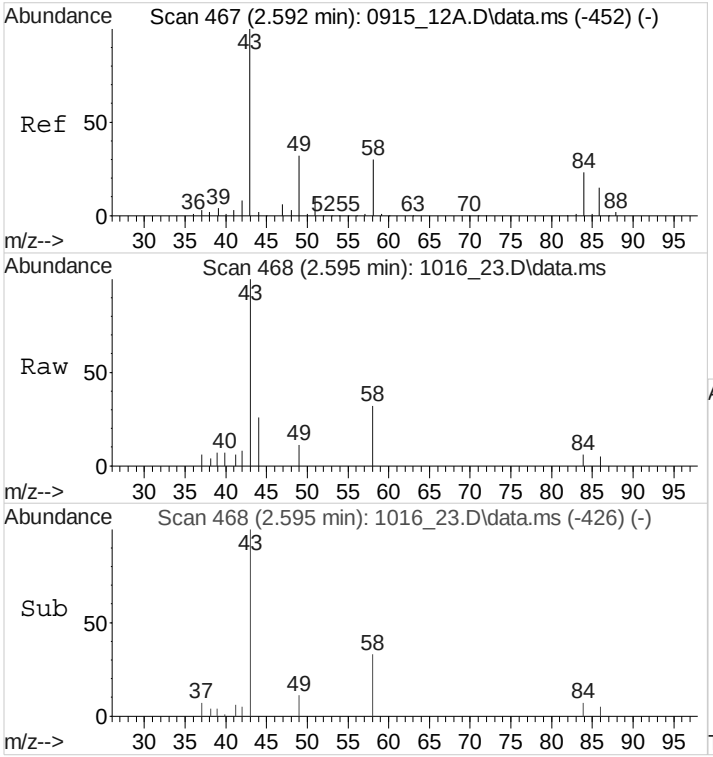


#3
PROPENE
Concen: Below Cal
RT: 1.341 min Scan# 78
Delta R.T. -0.009 min
Lab File: 1016 23.D
Acq: 16 Oct 2015 4:57 pm

Tgt Ion: 41 Resp: 603

Ion	Ratio	Lower	Upper
41	100		
39	0.0	55.2	82.8#
42	0.0	51.4	77.2#

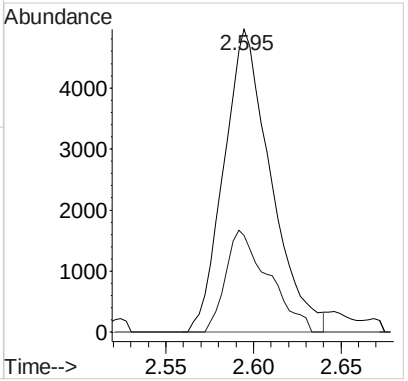


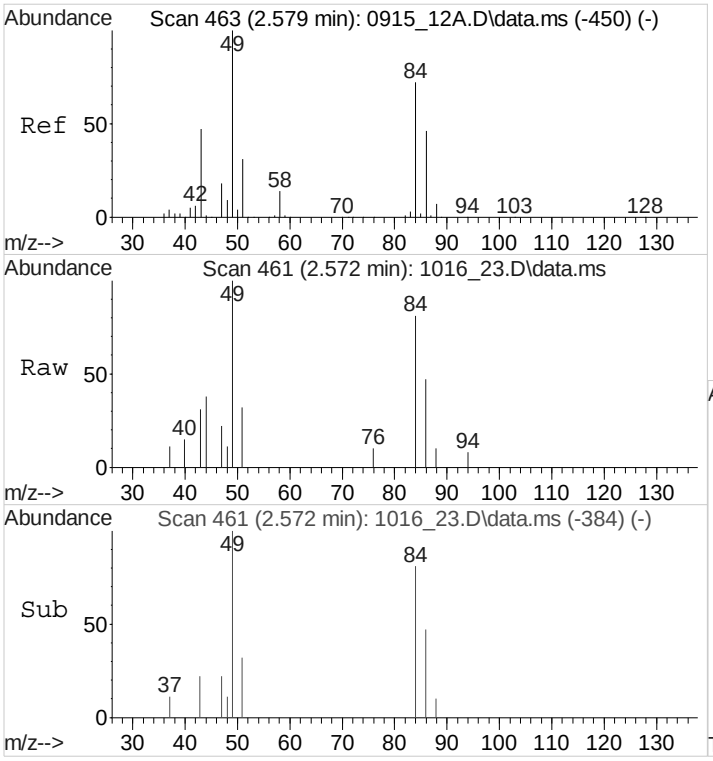


#16
ACETONE
Concen: 4.3577443 ppb
RT: 2.595 min Scan# 468
Delta R.T. 0.004 min
Lab File: 1016_23.D
Acq: 16 Oct 2015 4:57 pm

Tgt Ion: 43 Resp: 9231

Ion	Ratio	Lower	Upper
43	100		
58	30.9	25.0	37.4

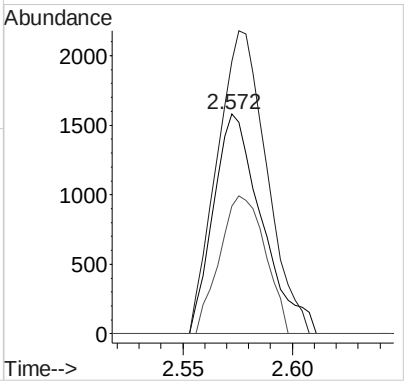


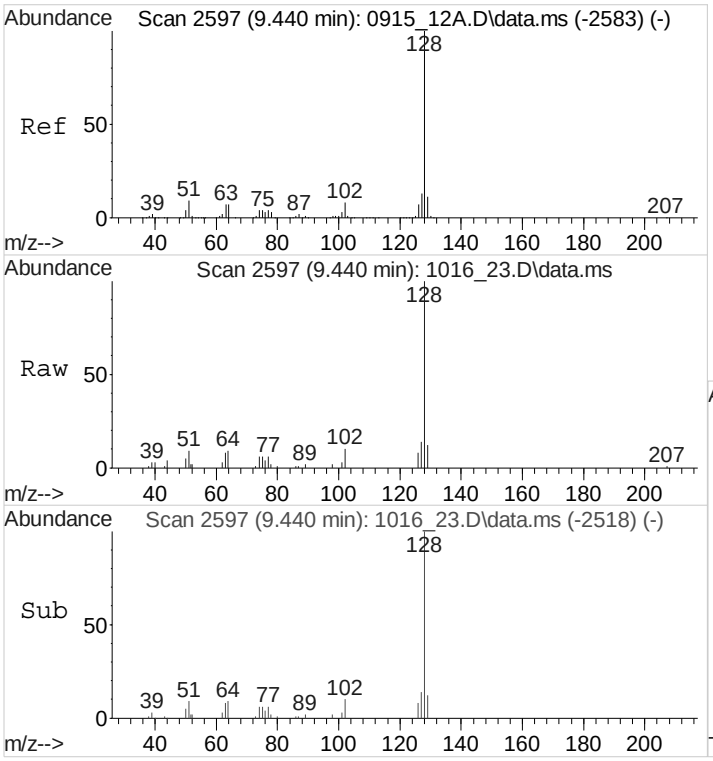


#19
METHYLENE CHLORIDE
Concen: 0.4943344 ppb
RT: 2.572 min Scan# 461
Delta R.T. -0.003 min
Lab File: 1016 23.D
Acq: 16 Oct 2015 4:57 pm

Tgt Ion: 84 Resp: 2415

Ion	Ratio	Lower	Upper
84	100		
49	141.4	115.0	172.4
86	59.3	51.4	77.2

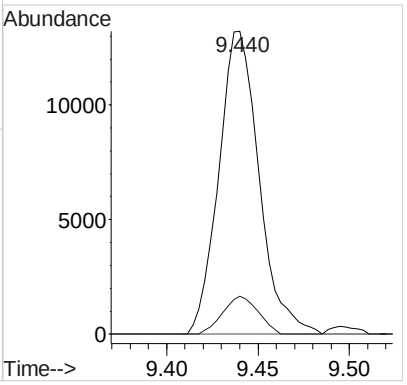


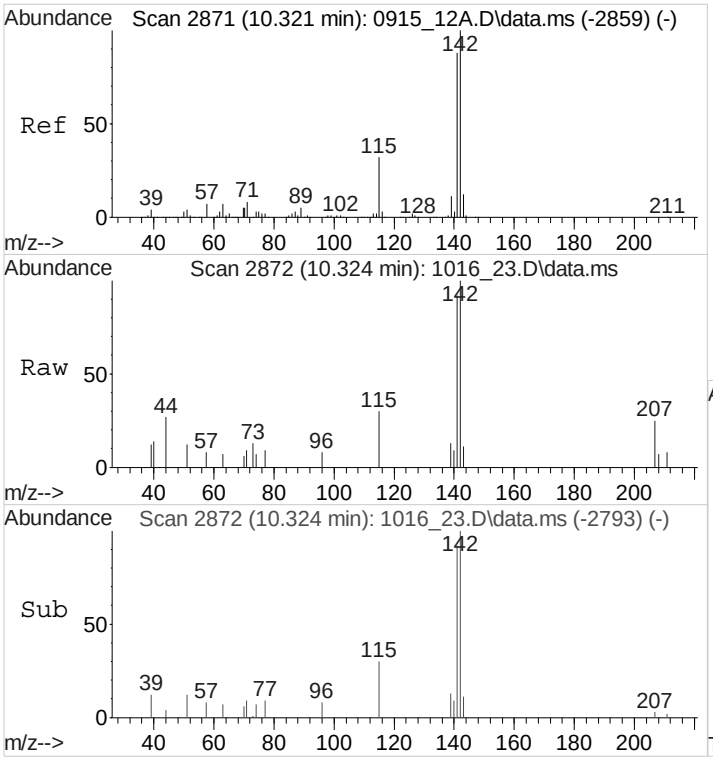


#92
Naphthalene
Concen: 1.4766878 ppb
RT: 9.440 min Scan# 2597
Delta R.T. 0.003 min
Lab File: 1016_23.D
Acq: 16 Oct 2015 4:57 pm

Tgt Ion:128 Resp: 20293

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.7	13.1

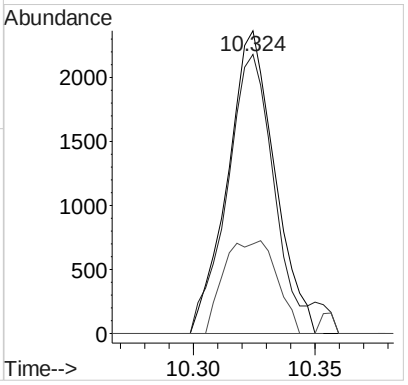


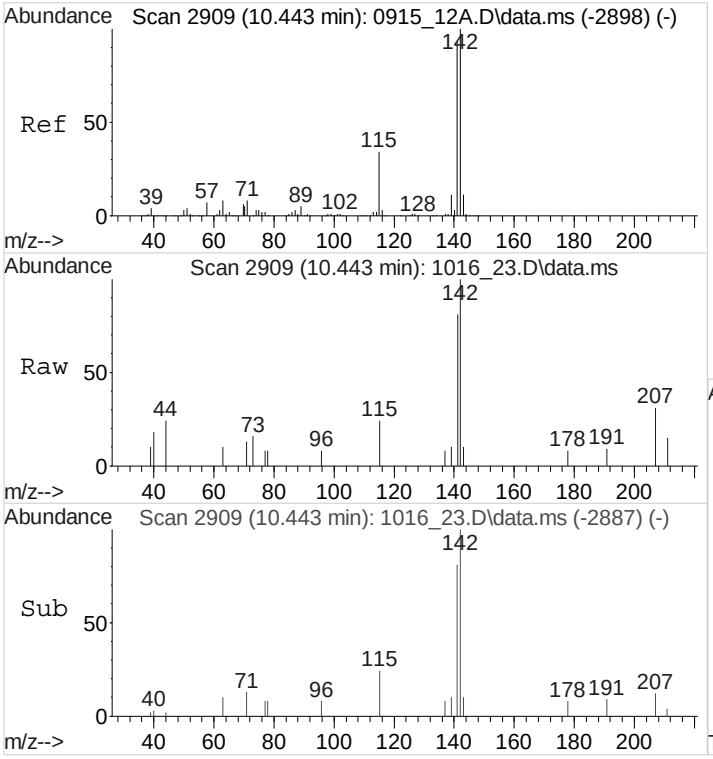


#94
1-Methylnaphthalene
Concen: 0.4667622 ppb
RT: 10.324 min Scan# 2872
Delta R.T. 0.003 min
Lab File: 1016 23.D
Acq: 16 Oct 2015 4:57 pm

Tgt Ion:142 Resp: 3175

Ion	Ratio	Lower	Upper
142	100		
141	91.4	70.0	105.0
115	34.6	25.6	38.4

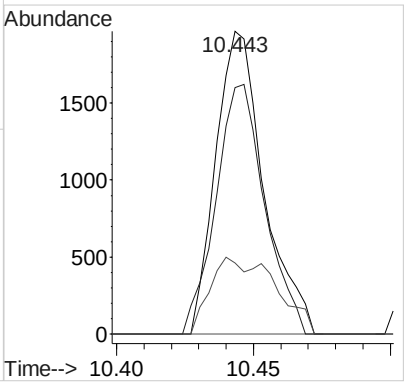


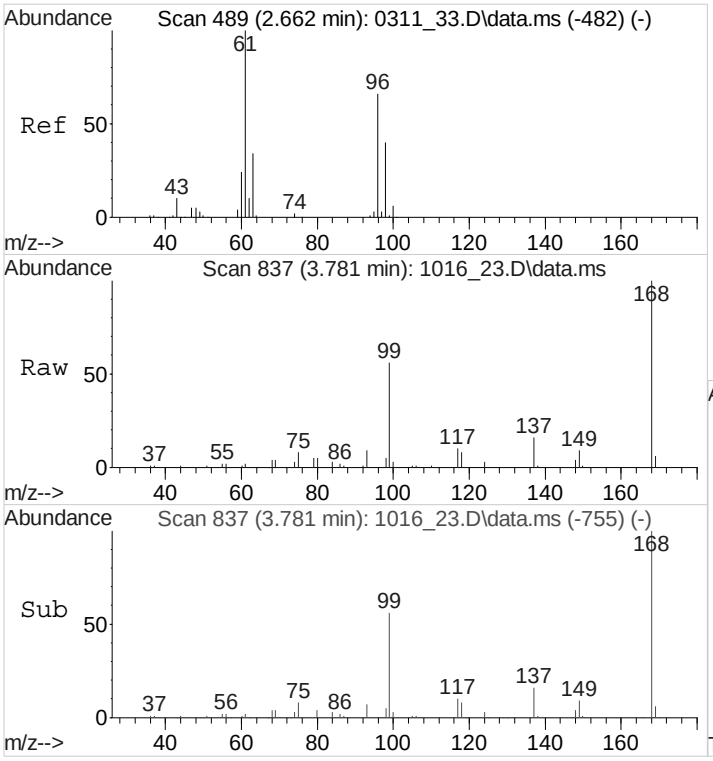


#95
2-Methylnaphthalene
Concen: 0.4259620 ppb
RT: 10.443 min Scan# 2909
Delta R.T. -0.000 min
Lab File: 1016_23.D
Acq: 16 Oct 2015 4:57 pm

Tgt Ion:142 Resp: 2401

Ion	Ratio	Lower	Upper
142	100		
141	83.6	73.7	110.5
115	34.4	26.9	40.3

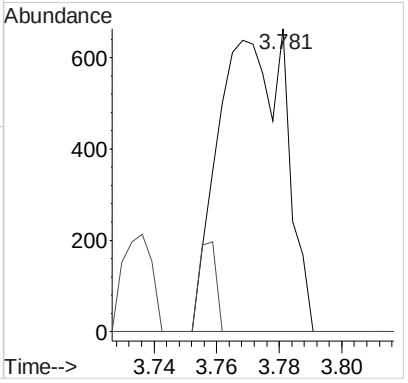


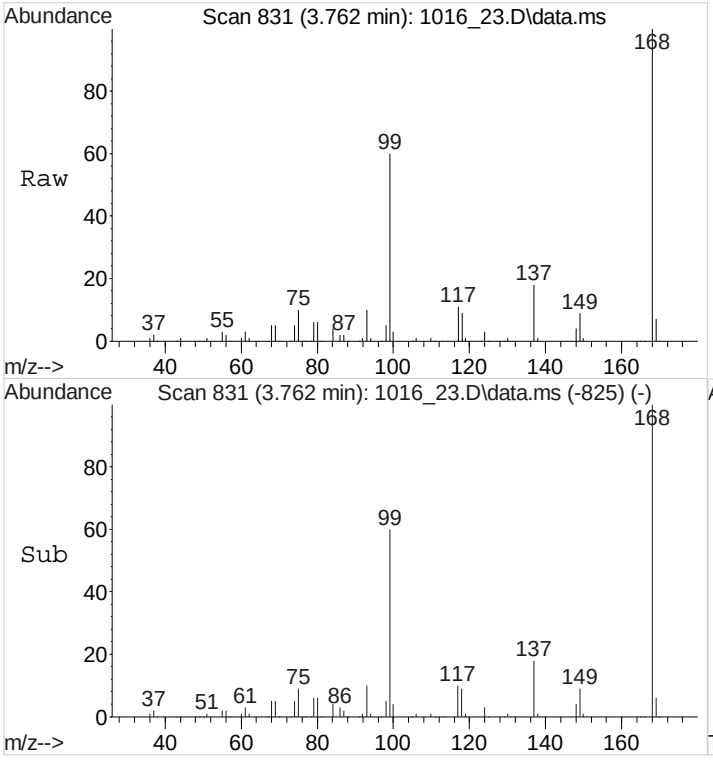


#108
METHACRYLONITRILE
Concen: 0.5392992 ppb
RT: 3.781 min Scan# 837
Delta R.T. 0.013 min
Lab File: 1016 23.D
Acq: 16 Oct 2015 4:57 pm

Tgt Ion: 67 Resp: 968

Ion	Ratio	Lower	Upper
67	100		
41	0.0	129.0	193.6#
39	0.0	68.3	102.5#
52	0.0	37.0	55.4#

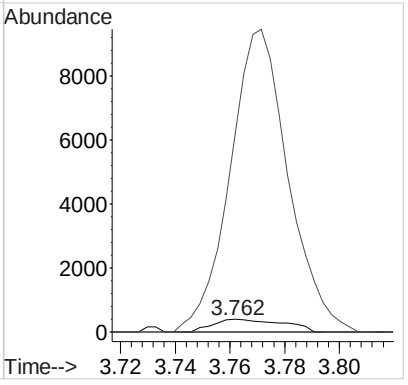


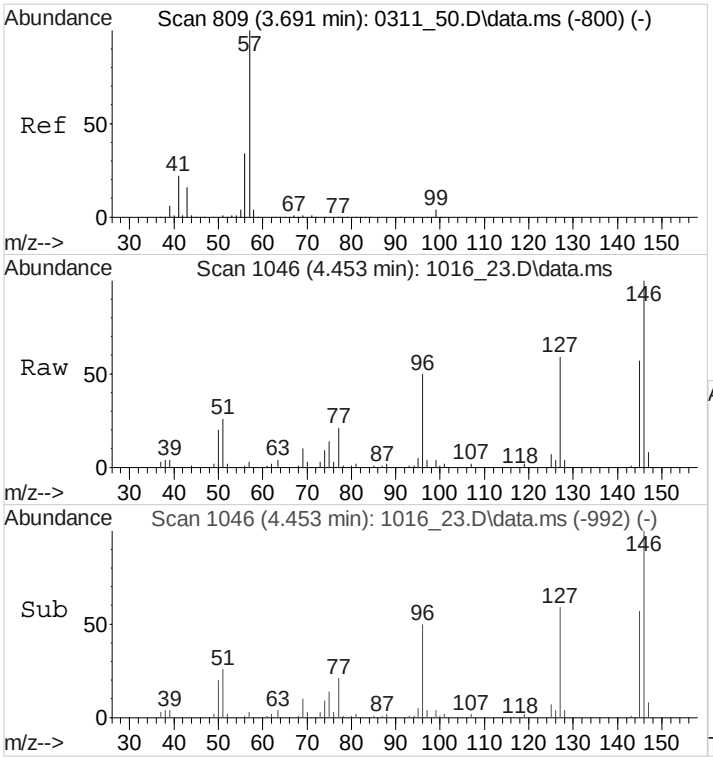


#111
ISOBUTANOL
Concen: 2.5295251 ppb
RT: 3.762 min Scan# 831
Delta R.T. -0.068 min
Lab File: 1016_23.D
Acq: 16 Oct 2015 4:57 pm

Tgt Ion: 43 Resp: 732

Ion	Ratio	Lower	Upper
43	100		
41	0.0	54.1	81.1#
74	1914.2	6.8	10.2#

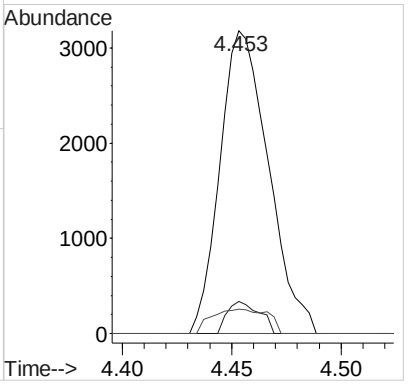




#119
1,4-DIOXANE
Concen: 112.7550112 ppb
RT: 4.453 min Scan# 1046
Delta R.T. -0.077 min
Lab File: 1016 23.D
Acq: 16 Oct 2015 4:57 pm

Tgt Ion: 88 Resp: 4897

Ion	Ratio	Lower	Upper
88	100		
58	0.0	53.9	80.9#
43	0.0	0.0	0.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 25.D
Acq On : 16 Oct 2015 5:34 pm
Operator : 189
Sample : L793892-10 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:21:38 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

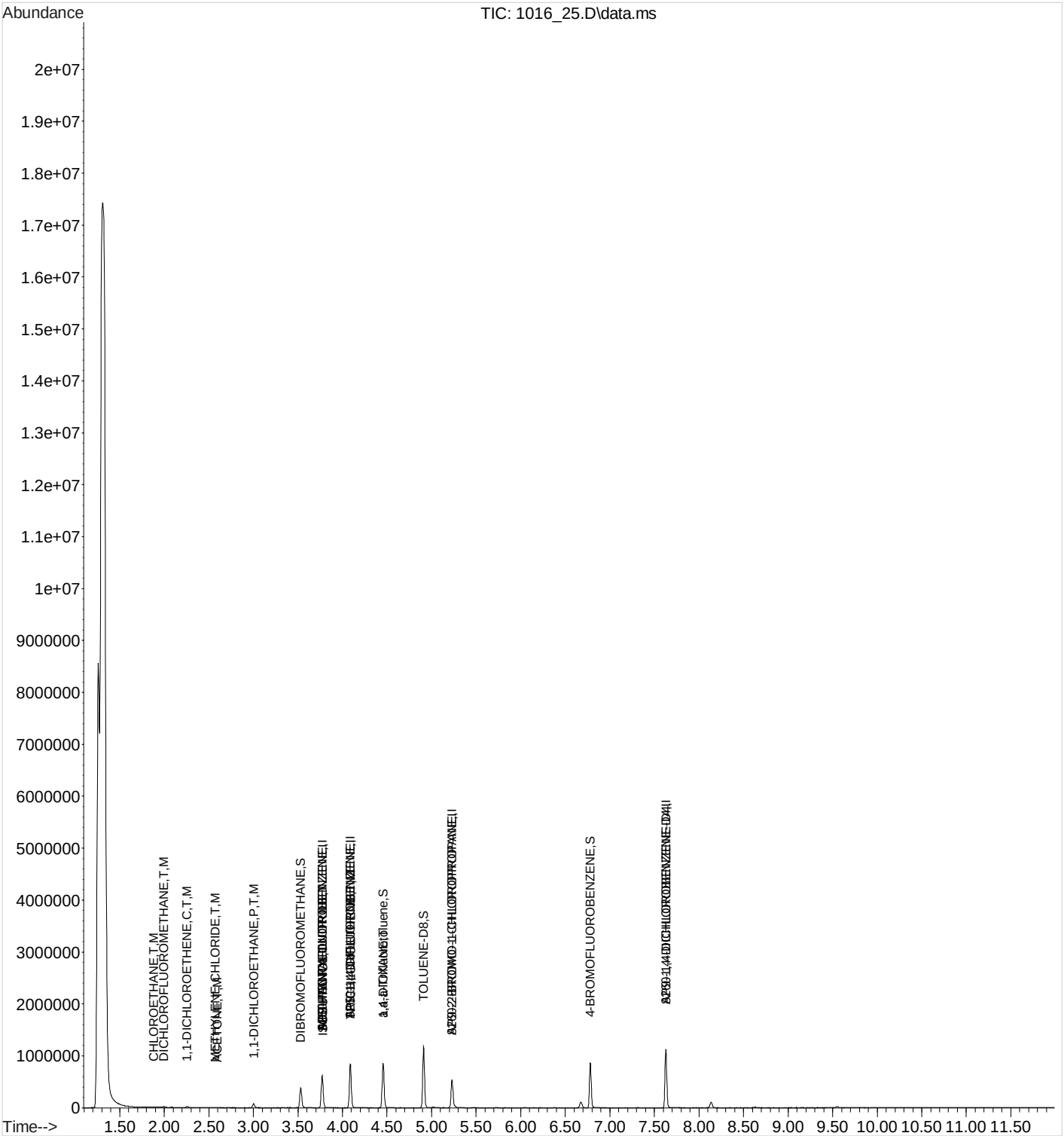
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	3.772	168	326517	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	518280	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.228	79	88249	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	252238	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.772	168	326517	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.087	114	518280	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.228	79	88249	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	252238	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.530	111	191065	38.8437742	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 97.11%			
46) a,a,a-Trifluorotoluene	4.456	146	284419	42.5540806	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 106.39%			
50) TOLUENE-D8	4.910	98	623633	41.1628406	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.91%			
68) 4-BROMOFLUOROBENZENE	6.781	95	241850	43.6390795	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 109.10%			
Target Compounds						Qvalue
9) CHLOROETHANE	1.878	64	2462	0.9933817	ppb #	83
11) DICHLOROFLUOROMETHANE	1.994	67	11052	1.4620458	ppb	95
14) 1,1-DICHLOROETHENE	2.254	61	12449	2.1915557	ppb	90
16) ACETONE	2.595	43	1664	0.8332483	ppb #	43
19) METHYLENE CHLORIDE	2.572	84	2269	0.4926589	ppb	95
24) 1,1-DICHLOROETHANE	3.003	63	61752	7.5523755	ppb	99
42) TRICHLOROETHENE	4.090	130	2515	0.6338760	ppb	96
108) METHACRYLONITRILE	3.772	67	828	0.4893200	ppb #	1
111) ISOBUTANOL	3.778	43	731	2.6794979	ppb #	1
119) 1,4-DIOXANE	4.456	88	4149	106.9213392	ppb #	16

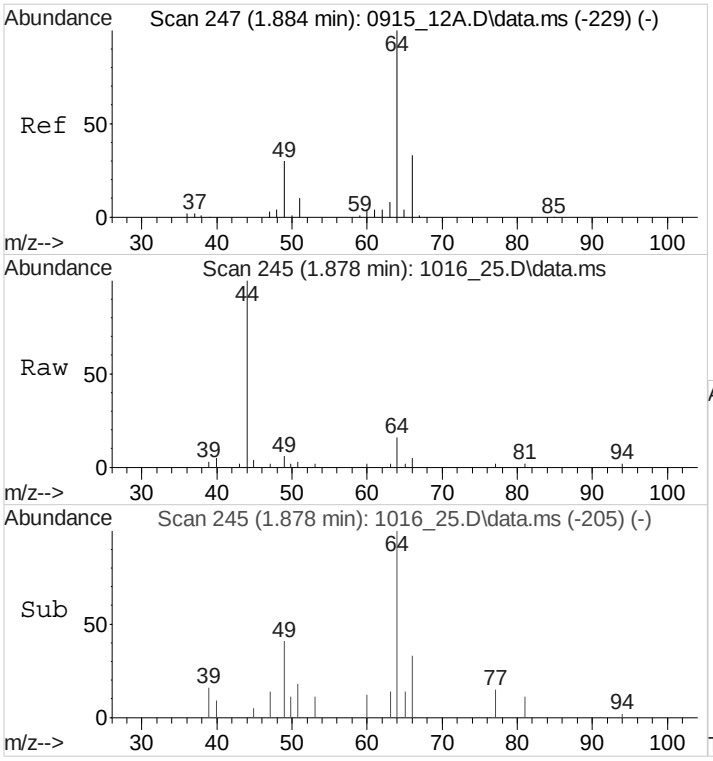
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 25.D
Acq On : 16 Oct 2015 5:34 pm
Operator : 189
Sample : L793892-10 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:21:38 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

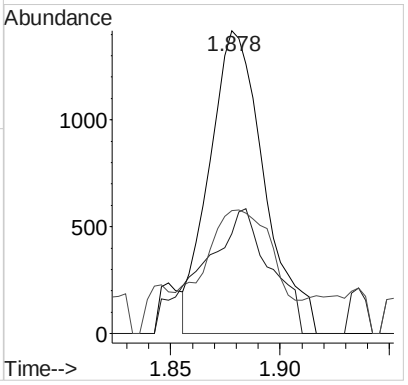


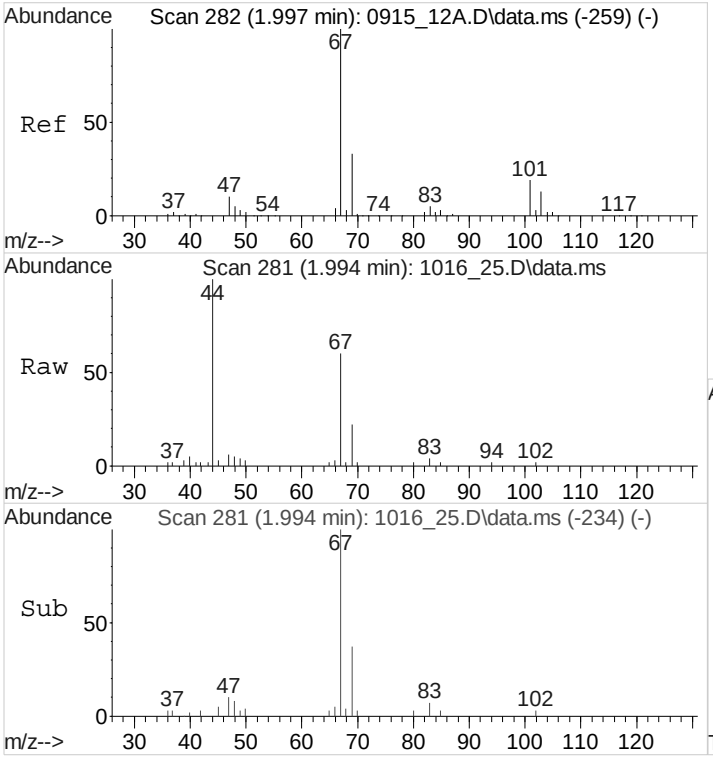


#9
CHLOROETHANE
Concen: 0.9933817 ppb
RT: 1.878 min Scan# 245
Delta R.T. 0.000 min
Lab File: 1016 25.D
Acq: 16 Oct 2015 5:34 pm

Tgt Ion: 64 Resp: 2462

Ion	Ratio	Lower	Upper
64	100		
66	51.1	27.0	40.6#
49	31.5	24.0	36.0

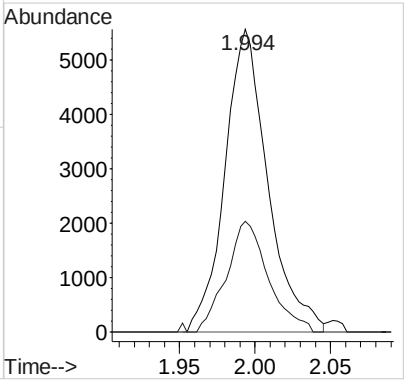


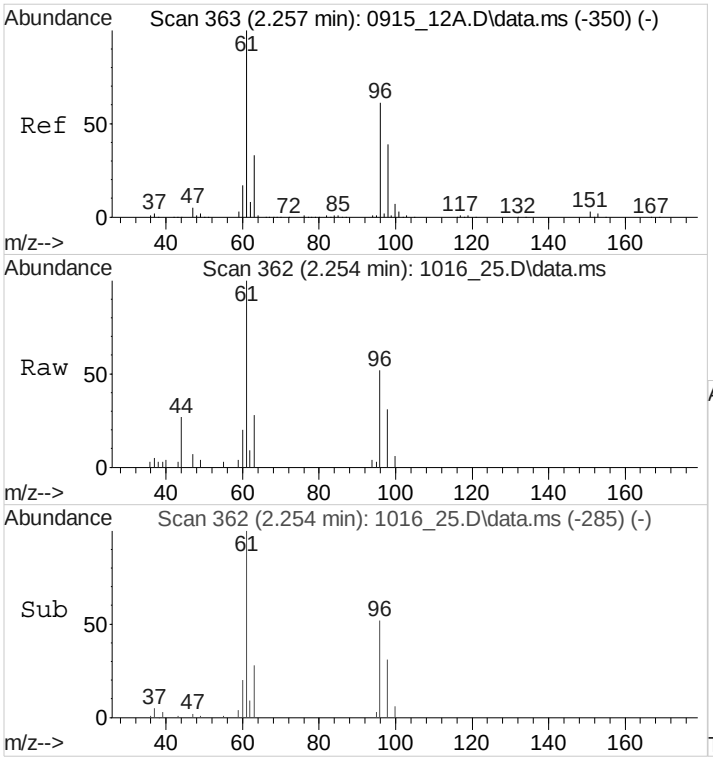


#11
DICHLOROFLUOROMETHANE
Concen: 1.4620458 ppb
RT: 1.994 min Scan# 281
Delta R.T. 0.000 min
Lab File: 1016_25.D
Acq: 16 Oct 2015 5:34 pm

Tgt Ion: 67 Resp: 11052

Ion	Ratio	Lower	Upper
67	100		
69	35.6	26.5	39.7

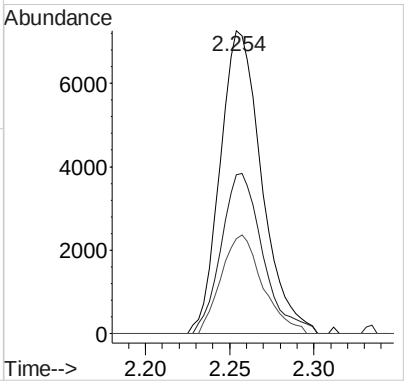


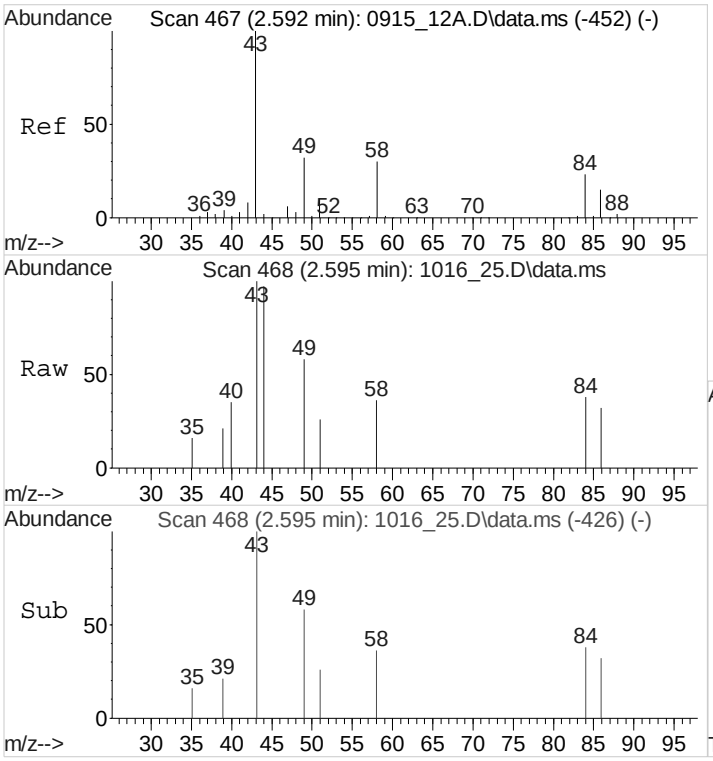


#14
1,1-DICHLOROETHENE
Concen: 2.1915557 ppb
RT: 2.254 min Scan# 362
Delta R.T. -0.003 min
Lab File: 1016 25.D
Acq: 16 Oct 2015 5:34 pm

Tgt Ion: 61 Resp: 12449

Ion	Ratio	Lower	Upper
61	100		
96	52.9	47.9	71.9
98	32.7	31.0	46.4

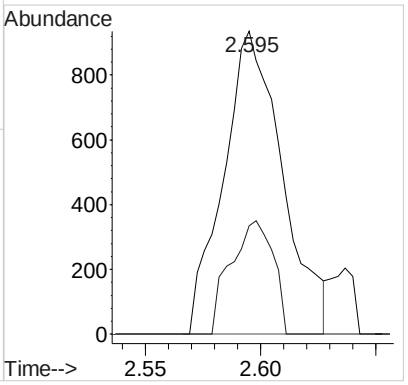


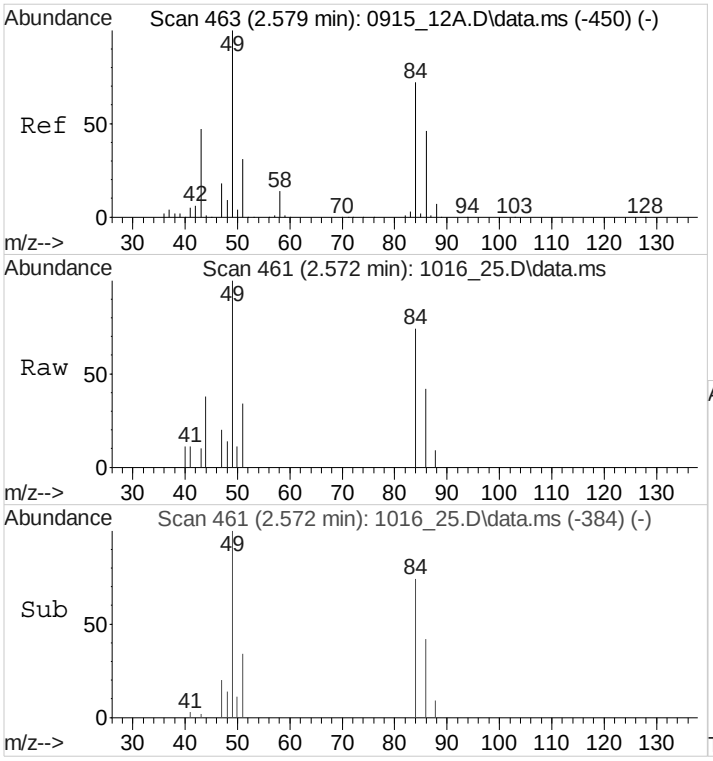


#16
ACETONE
Concen: 0.8332483 ppb
RT: 2.595 min Scan# 468
Delta R.T. 0.004 min
Lab File: 1016_25.D
Acq: 16 Oct 2015 5:34 pm

Tgt Ion: 43 Resp: 1664

Ion	Ratio	Lower	Upper
43	100		
58	0.0	25.0	37.4#

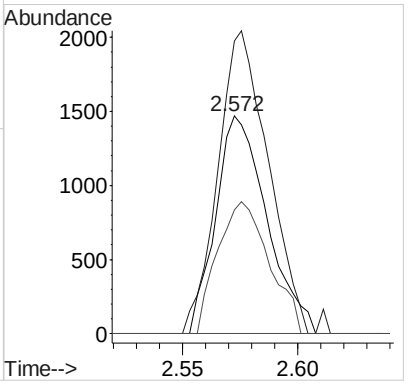


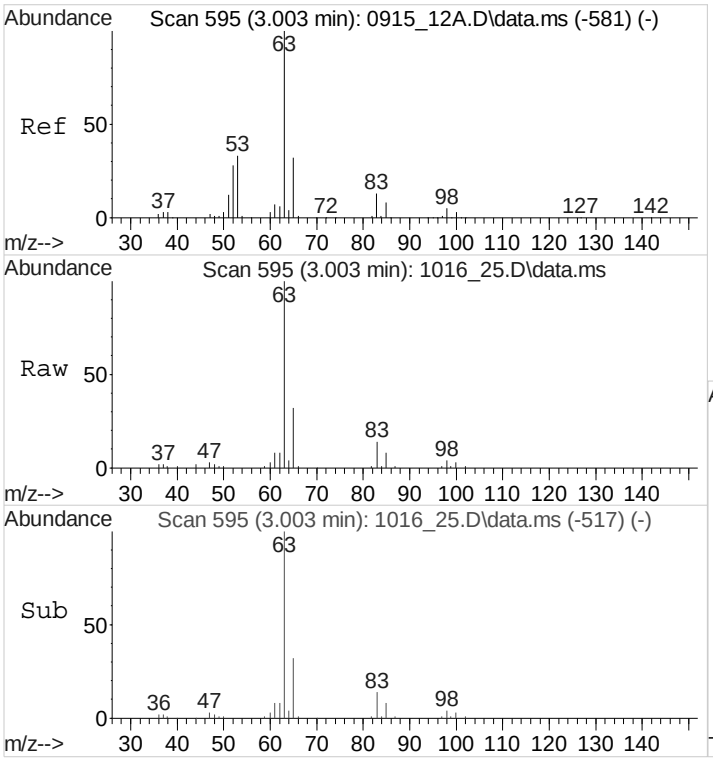


#19
METHYLENE CHLORIDE
Concen: 0.4926589 ppb
RT: 2.572 min Scan# 461
Delta R.T. -0.003 min
Lab File: 1016 25.D
Acq: 16 Oct 2015 5:34 pm

Tgt Ion: 84 Resp: 2269

Ion	Ratio	Lower	Upper
84	100		
49	136.5	115.0	172.4
86	61.3	51.4	77.2

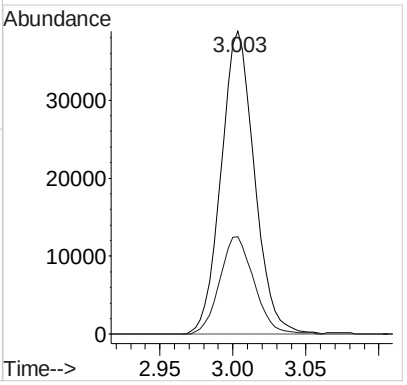


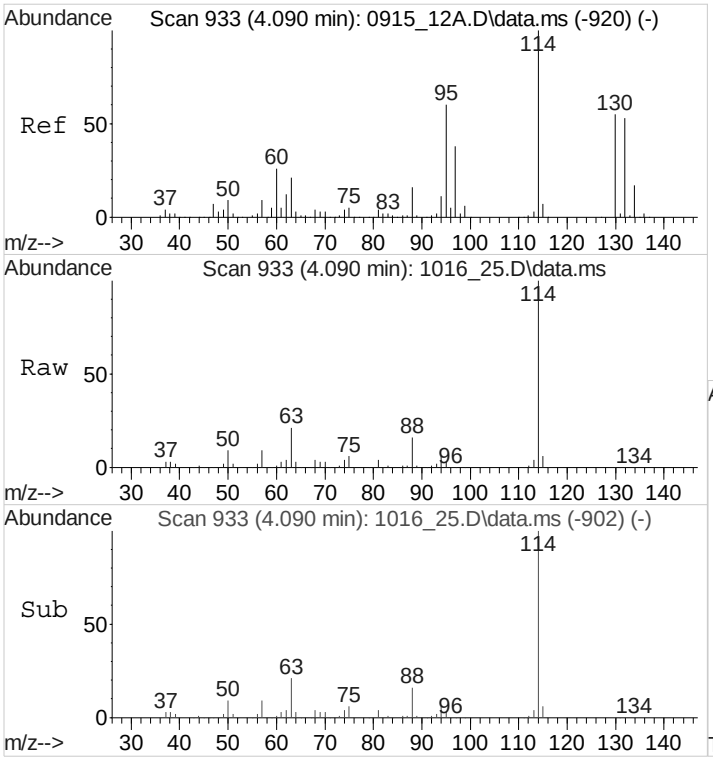


#24
1,1-DICHLOROETHANE
Concen: 7.5523755 ppb
RT: 3.003 min Scan# 595
Delta R.T. 0.000 min
Lab File: 1016_25.D
Acq: 16 Oct 2015 5:34 pm

Tgt Ion: 63 Resp: 61752

Ion	Ratio	Lower	Upper
63	100		
65	33.2	25.9	38.9

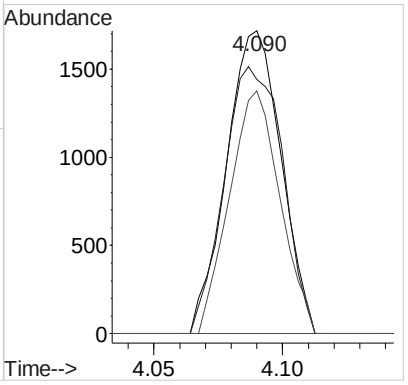


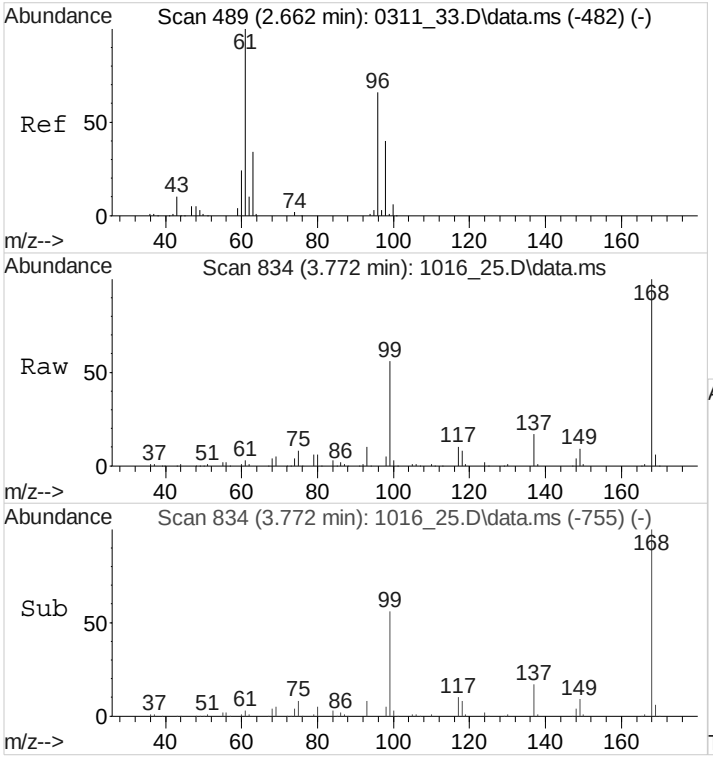


#42
TRICHLOROETHENE
Concen: 0.6338760 ppb
RT: 4.090 min Scan# 933
Delta R.T. 0.000 min
Lab File: 1016 25.D
Acq: 16 Oct 2015 5:34 pm

Tgt Ion:130 Resp: 2515

Ion	Ratio	Lower	Upper
130	100		
132	94.9	76.6	115.0
97	74.6	54.4	81.6

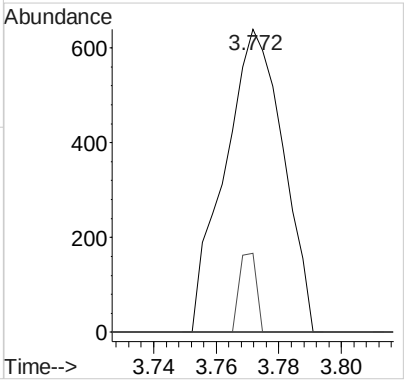


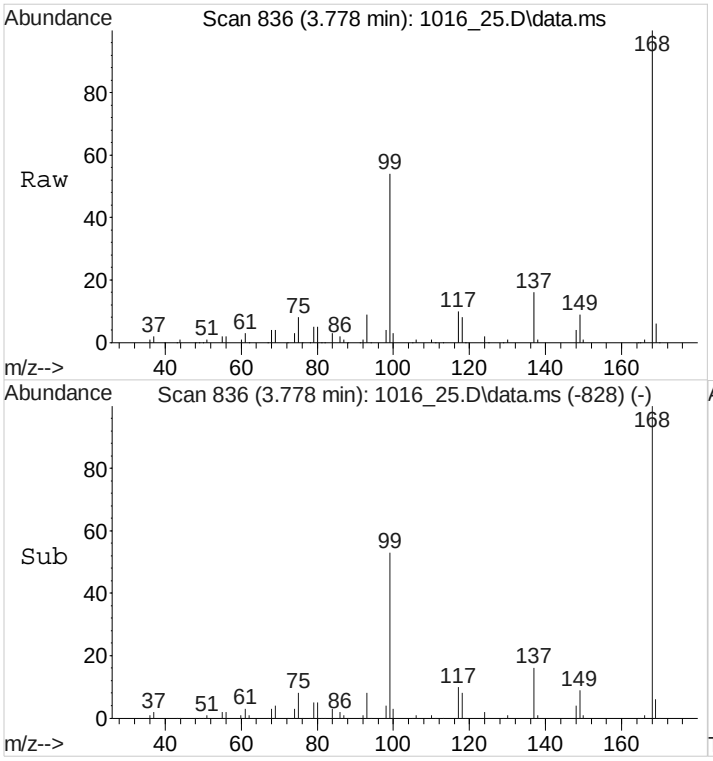


#108
METHACRYLONITRILE
Concen: 0.4893200 ppb
RT: 3.772 min Scan# 834
Delta R.T. 0.003 min
Lab File: 1016_25.D
Acq: 16 Oct 2015 5:34 pm

Tgt Ion: 67 Resp: 828

Ion	Ratio	Lower	Upper
67	100		
41	0.0	129.0	193.6#
39	0.0	68.3	102.5#
52	0.0	37.0	55.4#

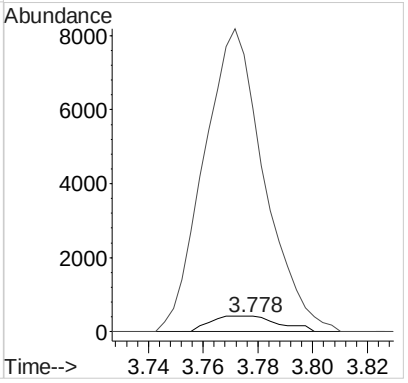


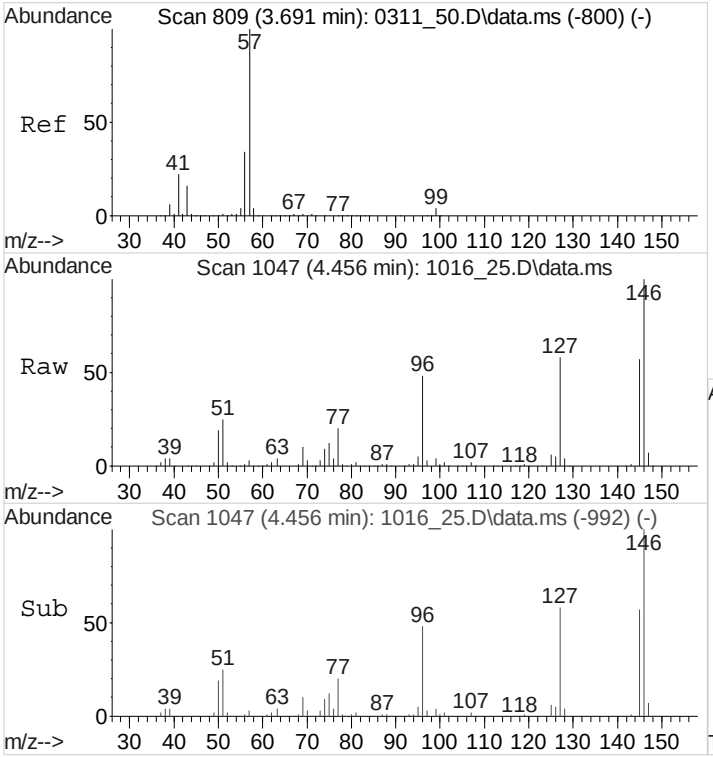


#111
ISOBUTANOL
Concen: 2.6794979 ppb
RT: 3.778 min Scan# 836
Delta R.T. -0.051 min
Lab File: 1016 25.D
Acq: 16 Oct 2015 5:34 pm

Tgt Ion: 43 Resp: 731

Ion	Ratio	Lower	Upper
43	100		
41	0.0	54.1	81.1#
74	1719.8	6.8	10.2#

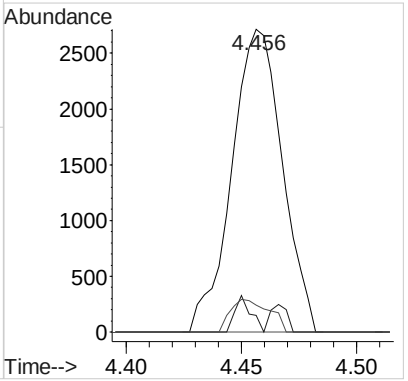




#119
1,4-DIOXANE
Concen: 106.9213392 ppb
RT: 4.456 min Scan# 1047
Delta R.T. -0.074 min
Lab File: 1016_25.D
Acq: 16 Oct 2015 5:34 pm

Tgt Ion: 88 Resp: 4149

Ion	Ratio	Lower	Upper
88	100		
58	0.0	53.9	80.9#
43	0.0	0.0	0.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 26.D
Acq On : 16 Oct 2015 5:52 pm
Operator : 189
Sample : L793892-11 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:21:59 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

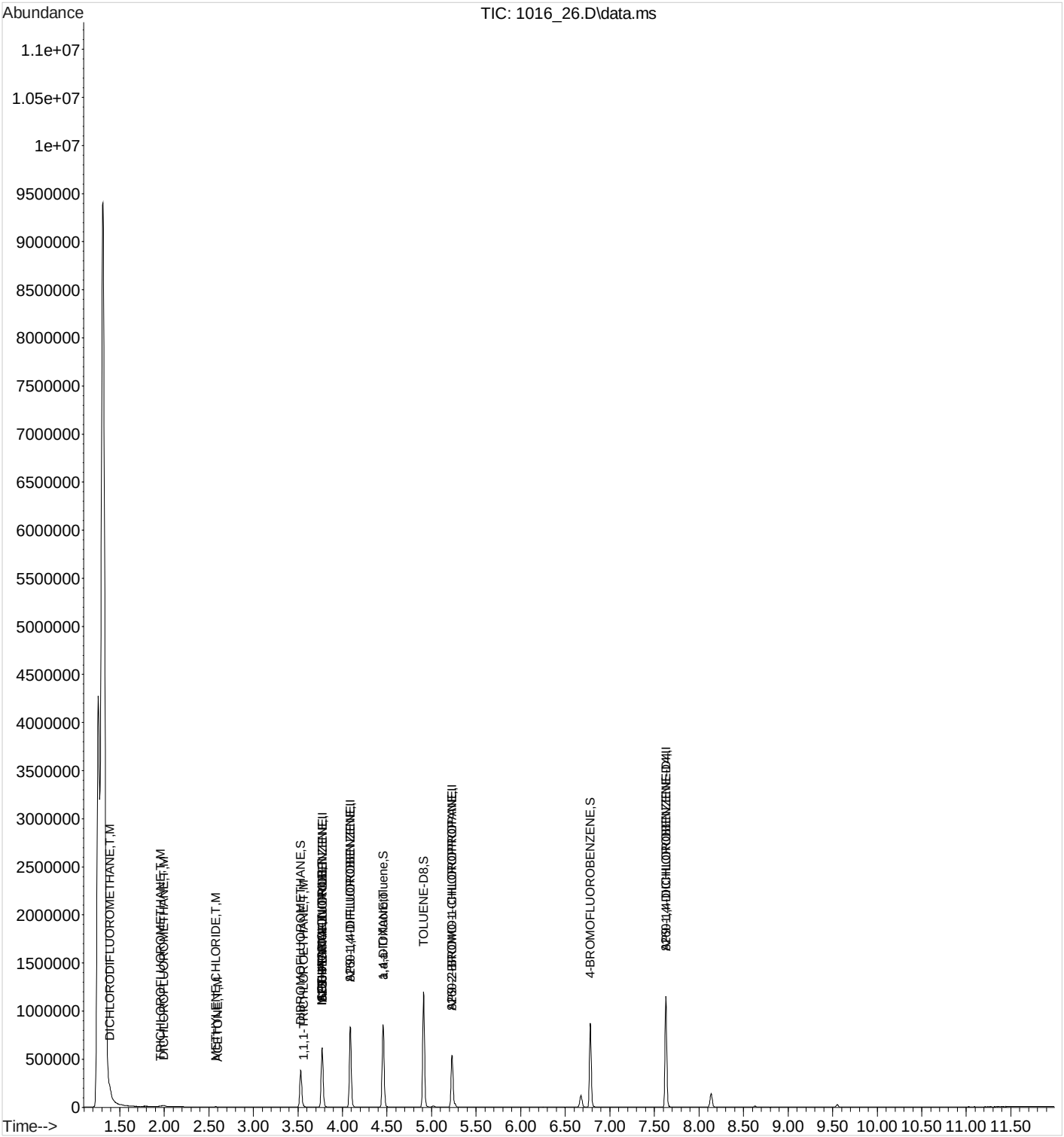
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	3.772	168	327785	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	518905	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.228	79	89353	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	252064	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	3.772	168	327785	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.087	114	518905	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.228	79	89353	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	252064	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.530	111	189731	38.4233565	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 96.06%				
46) a,a,a-Trifluorotoluene	4.456	146	287087	42.9015248	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 107.25%				
50) TOLUENE-D8	4.910	98	645100	42.5284825	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 106.32%				
68) 4-BROMOFLUOROBENZENE	6.781	95	240010	42.7719924	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 106.93%				
Target Compounds							Qvalue
4) DICHLORODIFLUOROMETHANE	1.389	85	97288	22.8058390	ppb		100
10) TRICHLOROFLUOROMETHANE	1.958	101	4651m	0.7721637	ppb		
11) DICHLOROFLUOROMETHANE	1.993	67	12900	1.6999124	ppb		97
16) ACETONE	2.598	43	1637	0.8165571	ppb	#	43
19) METHYLENE CHLORIDE	2.575	84	2269	0.4907531	ppb		97
34) 1,1,1-TRICHLOROETHANE	3.563	97	3614	0.6082276	ppb		94
108) METHACRYLONITRILE	3.768	67	956	0.5627781	ppb	#	1
111) ISOBUTANOL	3.768	43	554	2.0228447	ppb	#	1
119) 1,4-DIOXANE	4.456	88	4366	112.3779954	ppb	#	16

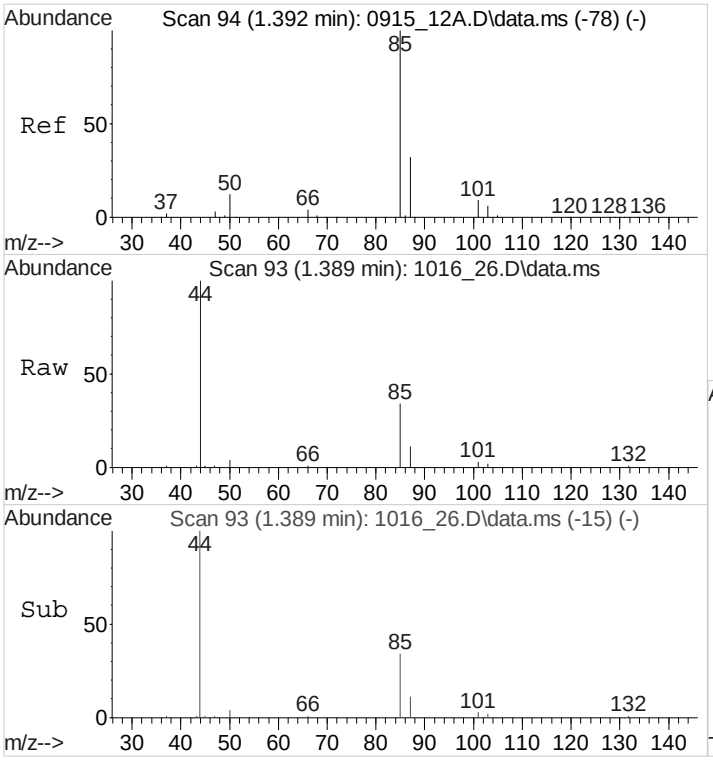
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 26.D
Acq On : 16 Oct 2015 5:52 pm
Operator : 189
Sample : L793892-11 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:21:59 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

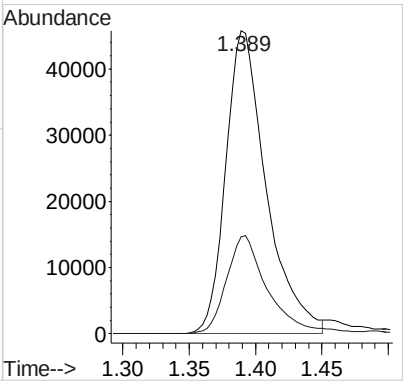


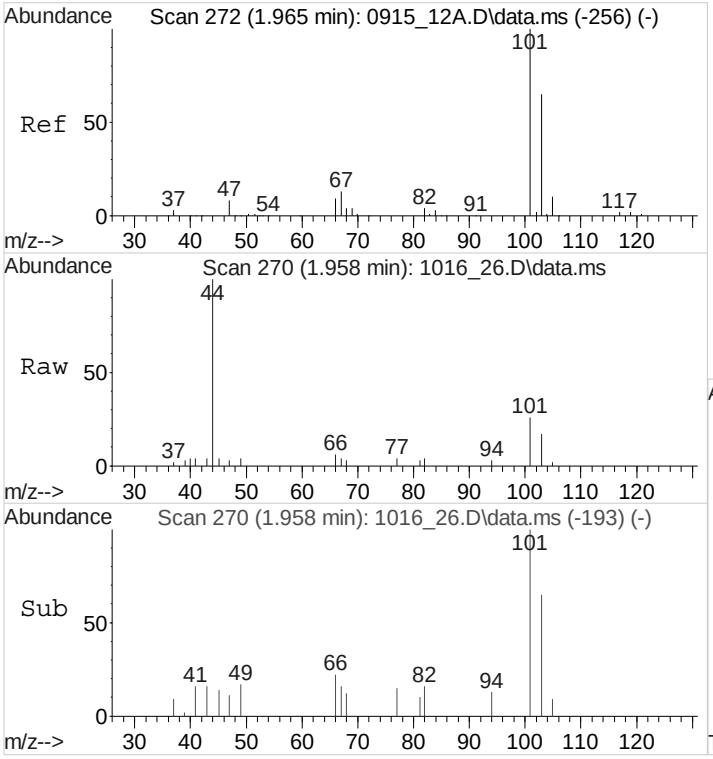


#4
DICHLORODIFLUOROMETHANE
Concen: 22.8058390 ppb
RT: 1.389 min Scan# 93
Delta R.T. -0.000 min
Lab File: 1016 26.D
Acq: 16 Oct 2015 5:52 pm

Tgt Ion: 85 Resp: 97288

Ion	Ratio	Lower	Upper
85	100		
87	33.0	26.6	39.8

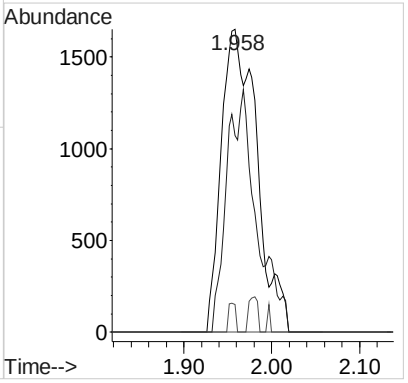


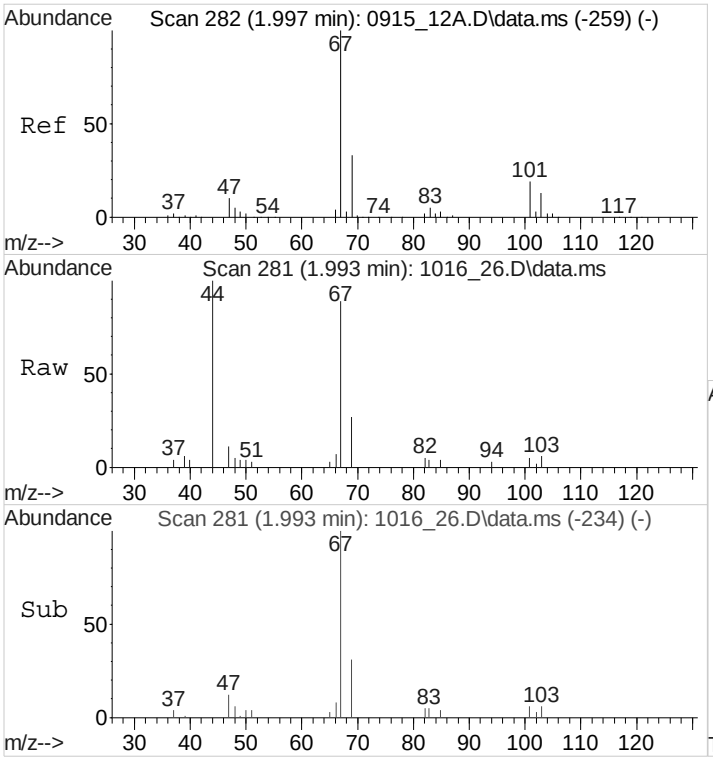


#10
TRICHLOROFLUOROMETHANE
Concen: 0.7721637 ppb m
RT: 1.958 min Scan# 270
Delta R.T. -0.003 min
Lab File: 1016_26.D
Acq: 16 Oct 2015 5:52 pm

Tgt Ion:101 Resp: 4651

Ion	Ratio	Lower	Upper
101	100		
103	27.8	51.7	77.5#
105	0.0	8.6	13.0#

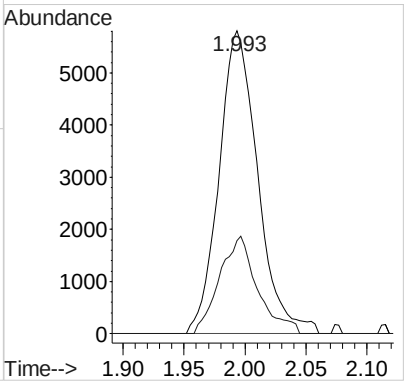


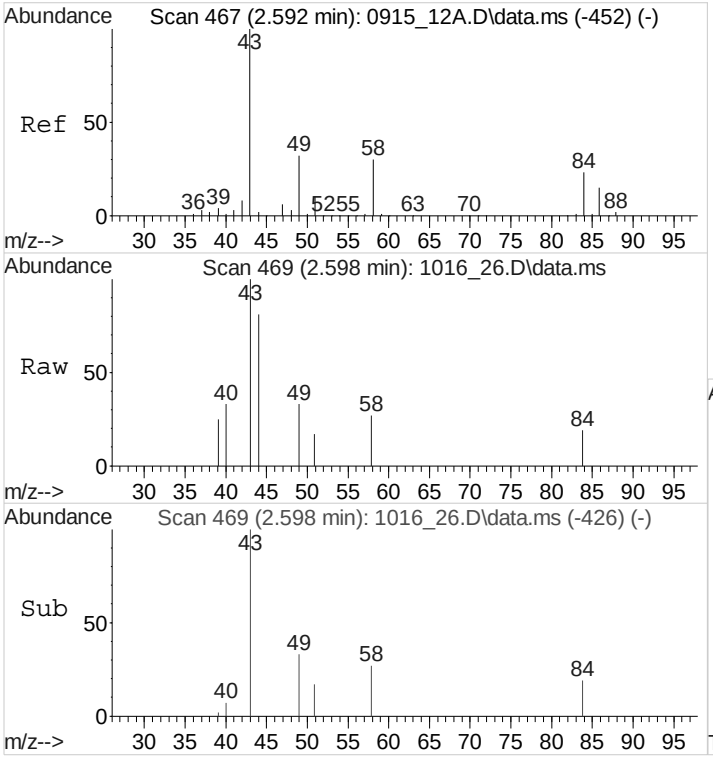


#11
DICHLOROFLUOROMETHANE
Concen: 1.6999124 ppb
RT: 1.993 min Scan# 281
Delta R.T. -0.000 min
Lab File: 1016 26.D
Acq: 16 Oct 2015 5:52 pm

Tgt Ion: 67 Resp: 12900

Ion	Ratio	Lower	Upper
67	100		
69	31.6	26.5	39.7

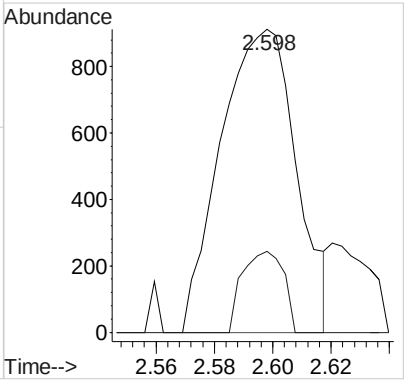


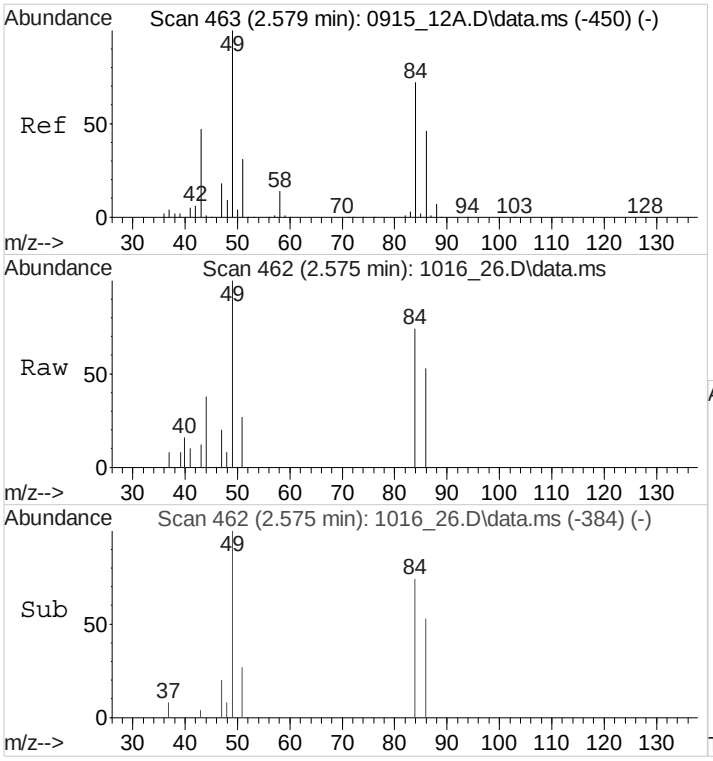


#16
ACETONE
Concen: 0.8165571 ppb
RT: 2.598 min Scan# 469
Delta R.T. 0.007 min
Lab File: 1016_26.D
Acq: 16 Oct 2015 5:52 pm

Tgt Ion: 43 Resp: 1637

Ion	Ratio	Lower	Upper
43	100		
58	0.0	25.0	37.4#

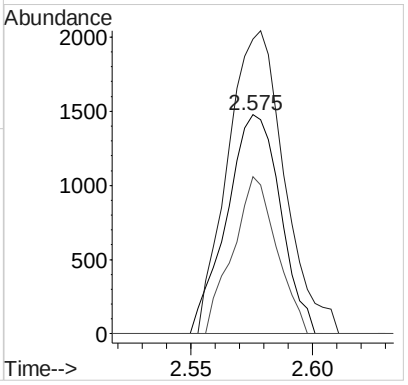


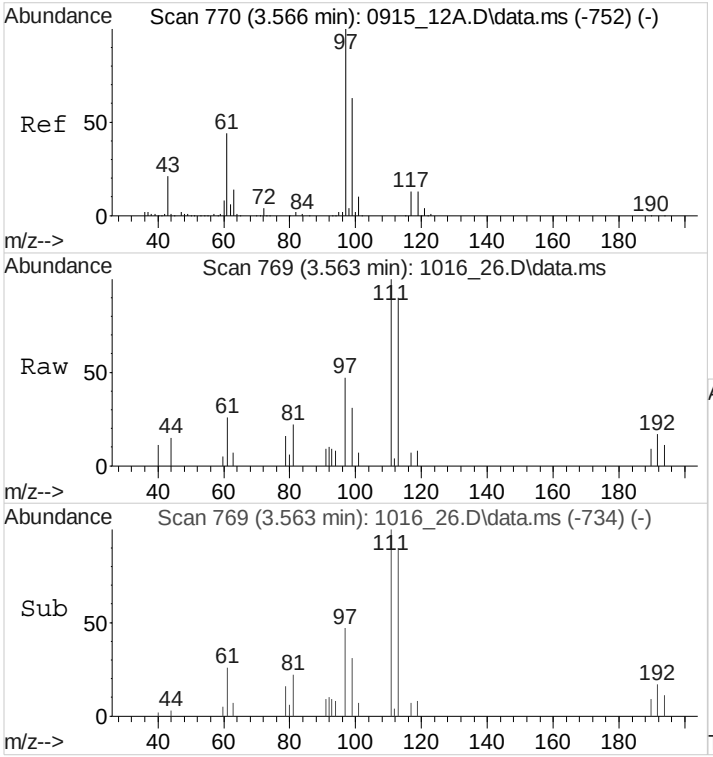


#19
METHYLENE CHLORIDE
Concen: 0.4907531 ppb
RT: 2.575 min Scan# 462
Delta R.T. 0.000 min
Lab File: 1016 26.D
Acq: 16 Oct 2015 5:52 pm

Tgt Ion: 84 Resp: 2269

Ion	Ratio	Lower	Upper
84	100		
49	145.6	115.0	172.4
86	58.4	51.4	77.2

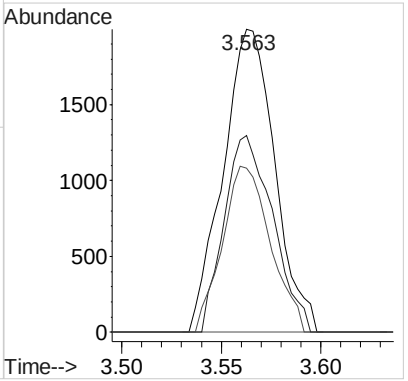


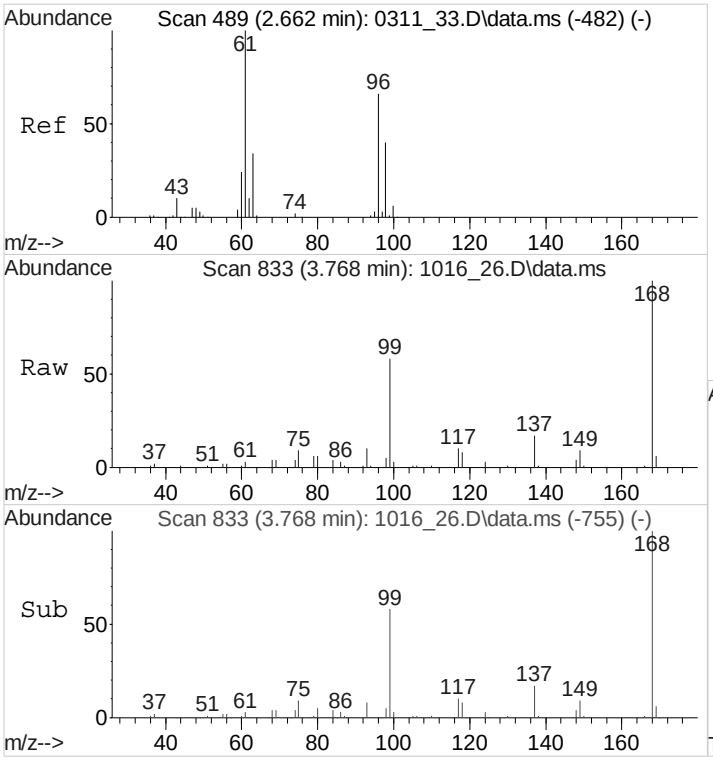


#34
1,1,1-TRICHLOROETHANE
Concen: 0.6082276 ppb
RT: 3.563 min Scan# 769
Delta R.T. -0.000 min
Lab File: 1016_26.D
Acq: 16 Oct 2015 5:52 pm

Tgt Ion: 97 Resp: 3614

Ion	Ratio	Lower	Upper
97	100		
99	60.9	51.4	77.2
61	50.7	35.9	53.9

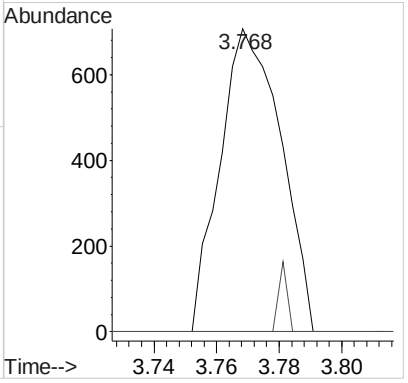


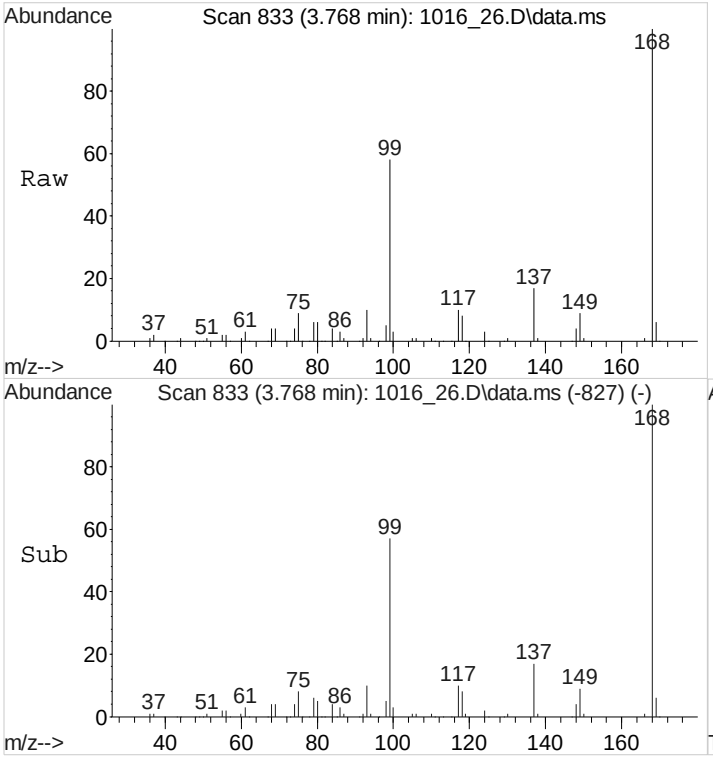


#108
METHACRYLONITRILE
Concen: 0.5627781 ppb
RT: 3.768 min Scan# 833
Delta R.T. -0.000 min
Lab File: 1016 26.D
Acq: 16 Oct 2015 5:52 pm

Tgt Ion: 67 Resp: 956

Ion	Ratio	Lower	Upper
67	100		
41	0.0	129.0	193.6#
39	0.0	68.3	102.5#
52	0.0	37.0	55.4#

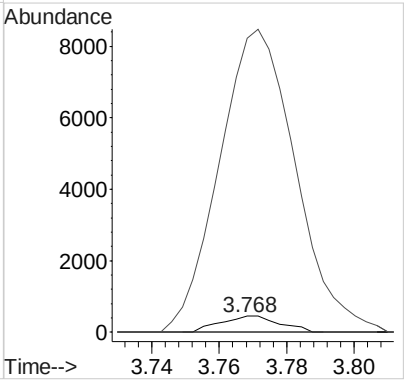


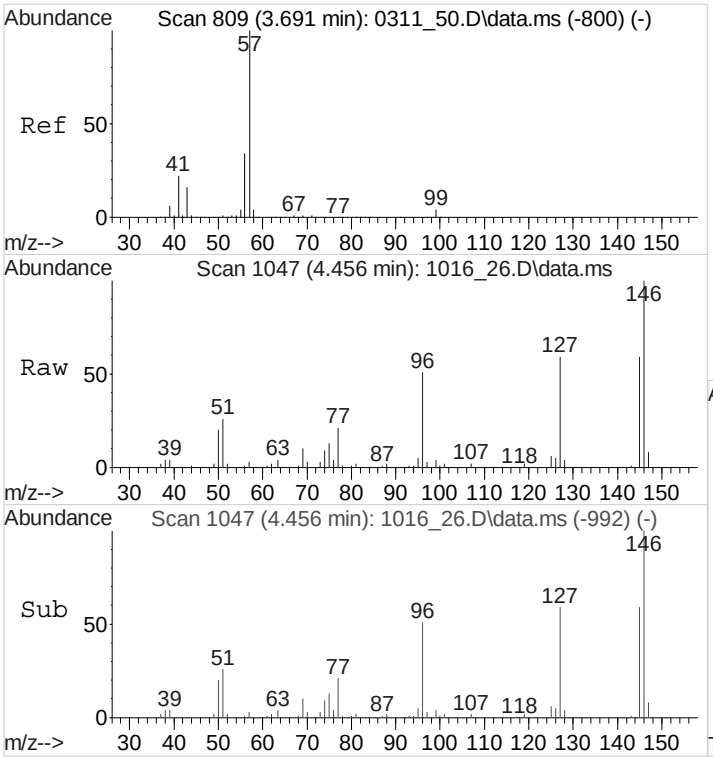


#111
ISOBUTANOL
Concen: 2.0228447 ppb
RT: 3.768 min Scan# 833
Delta R.T. -0.061 min
Lab File: 1016_26.D
Acq: 16 Oct 2015 5:52 pm

Tgt Ion: 43 Resp: 554

Ion	Ratio	Lower	Upper
43	100		
41	0.0	54.1	81.1#
74	2401.4	6.8	10.2#

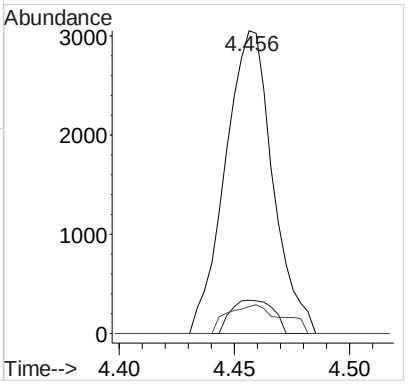




#119
1,4-DIOXANE
Concen: 112.3779954 ppb
RT: 4.456 min Scan# 1047
Delta R.T. -0.074 min
Lab File: 1016 26.D
Acq: 16 Oct 2015 5:52 pm

Tgt Ion: 88 Resp: 4366

Ion	Ratio	Lower	Upper
88	100		
58	0.0	53.9	80.9#
43	0.0	0.0	0.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 27.D
Acq On : 16 Oct 2015 6:10 pm
Operator : 189
Sample : L793892-12 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:22:15 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

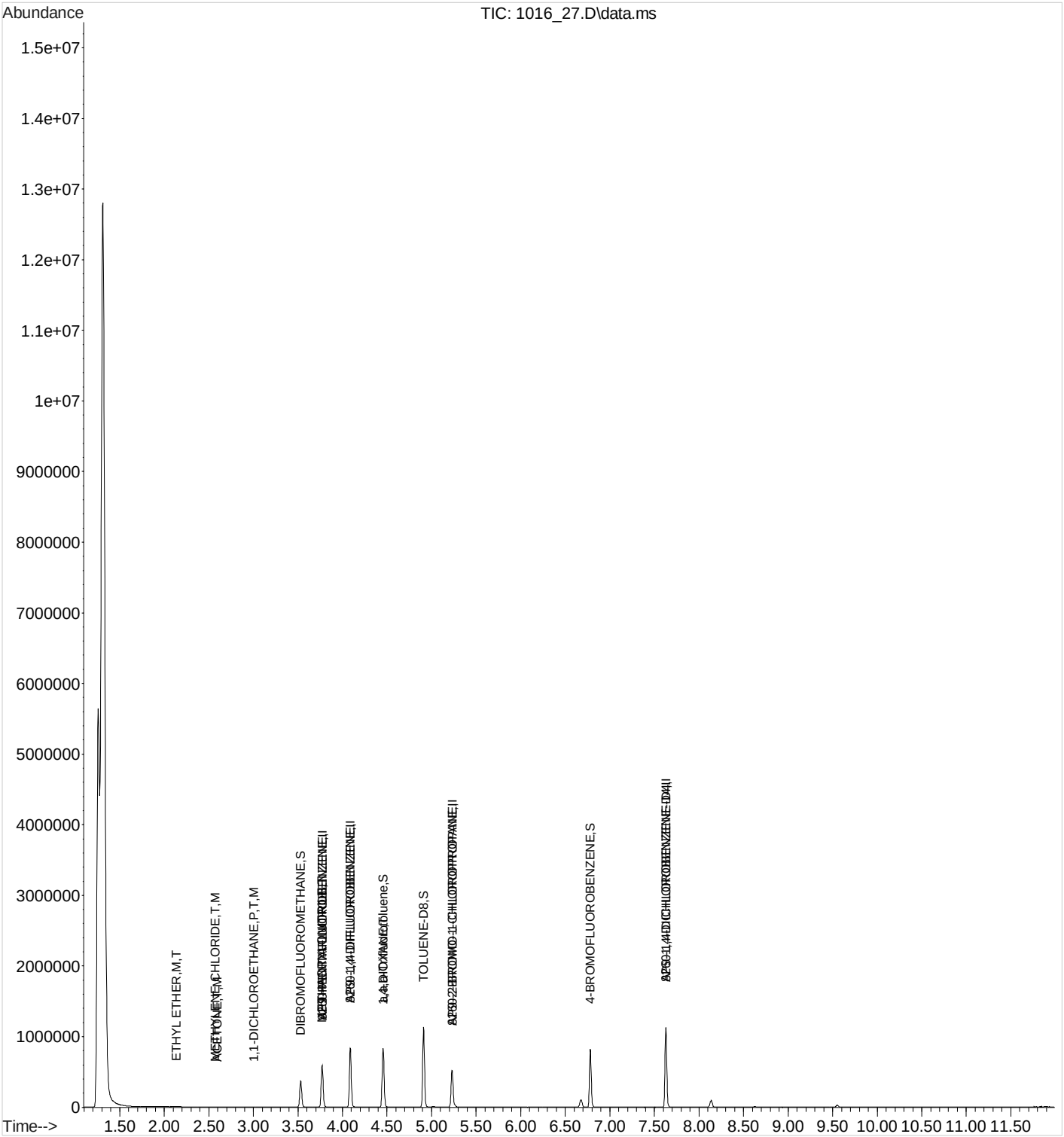
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	3.772	168	308700	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	513968	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.231	79	87263	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	248999	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.772	168	308700	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.087	114	513968	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.231	79	87263	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	248999	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.531	111	182565	39.2578916	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 98.14%			
46) a,a,a-Trifluorotoluene	4.457	146	277214	41.8240549	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.56%			
50) TOLUENE-D8	4.910	98	599504	39.9021874	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 99.76%			
68) 4-BROMOFLUOROBENZENE	6.781	95	227493	41.5123368	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.78%			
Target Compounds						Qvalue
3) PROPENE	1.325	41	654	Below Cal	#	17
12) ETHYL ETHER	2.135	59	1963	0.7347827	ppb #	73
16) ACETONE	2.592	43	1460	0.7732914	ppb #	43
19) METHYLENE CHLORIDE	2.572	84	1949	0.4476028	ppb	91
24) 1,1-DICHLOROETHANE	3.003	63	3808	0.4926048	ppb	96
108) METHACRYLONITRILE	3.768	67	1180	0.7375879	ppb #	1
119) 1,4-DIOXANE	4.453	88	4339	112.7558218	ppb #	16

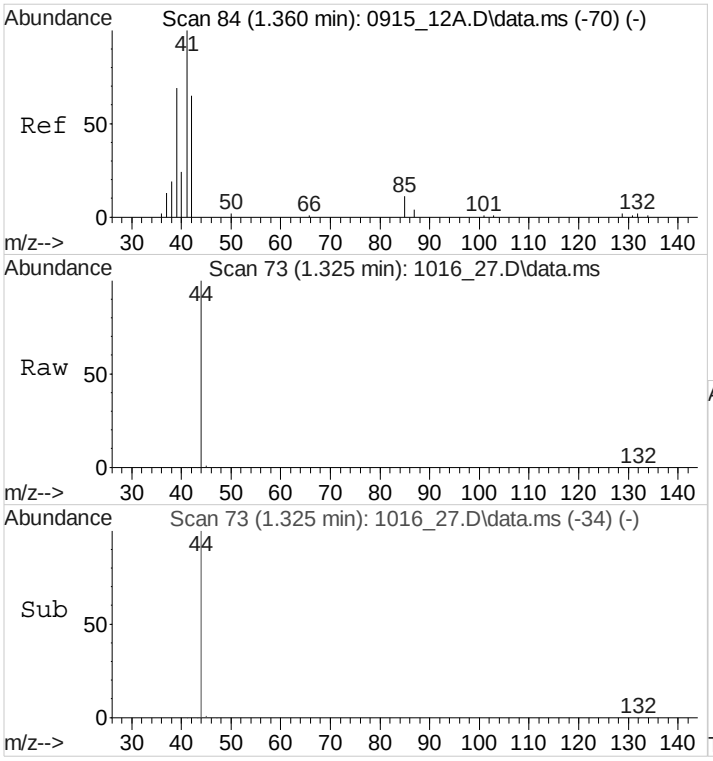
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 27.D
Acq On : 16 Oct 2015 6:10 pm
Operator : 189
Sample : L793892-12 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 27 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:22:15 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

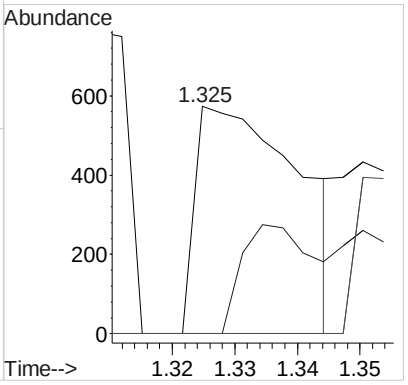


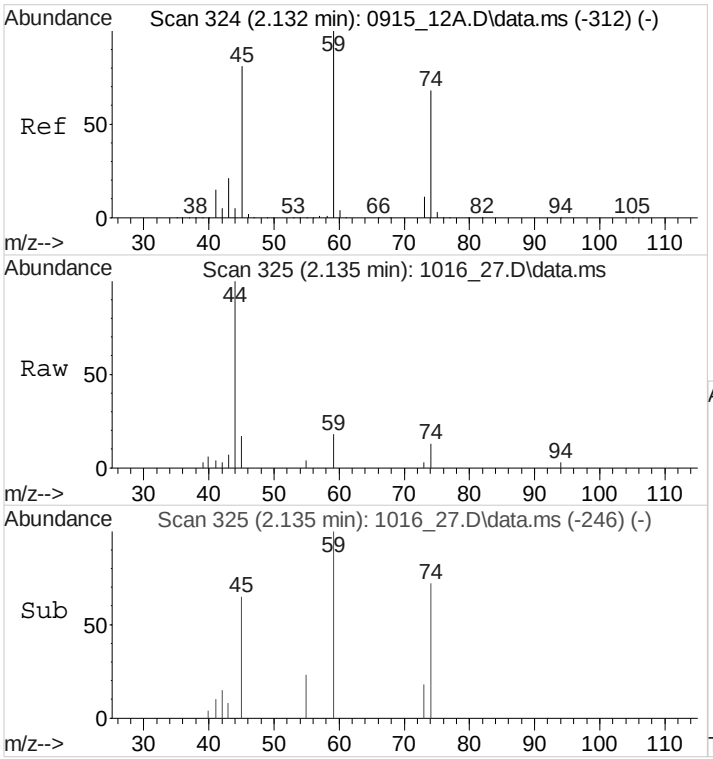


#3
PROPENE
Concen: Below Cal
RT: 1.325 min Scan# 73
Delta R.T. -0.025 min
Lab File: 1016 27.D
Acq: 16 Oct 2015 6:10 pm

Tgt Ion: 41 Resp: 654

Ion	Ratio	Lower	Upper
41	100		
39	0.0	55.2	82.8#
42	0.0	51.4	77.2#

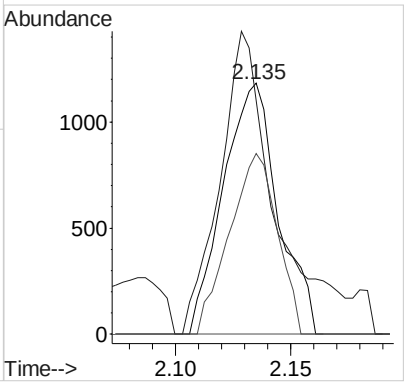


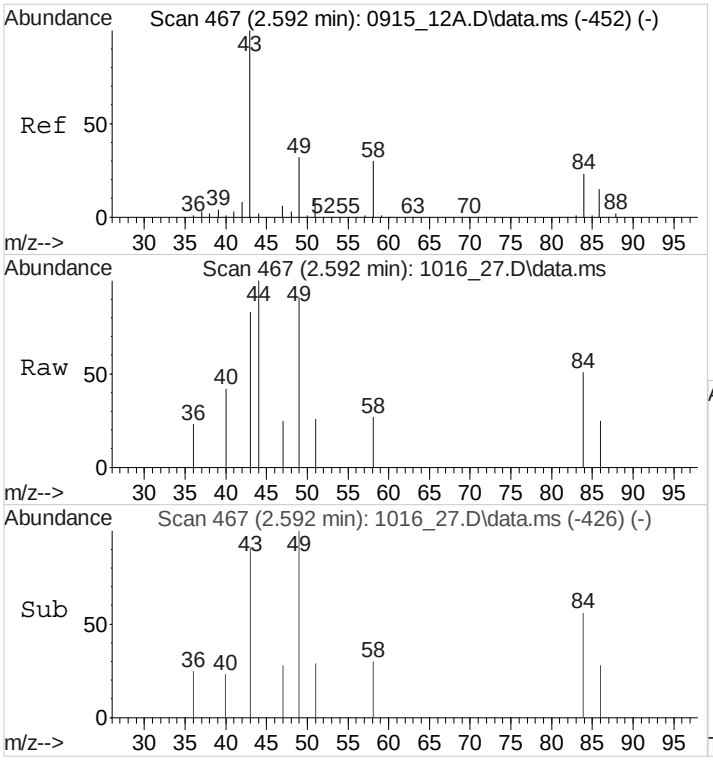


#12
ETHYL ETHER
Concen: 0.7347827 ppb
RT: 2.135 min Scan# 325
Delta R.T. 0.003 min
Lab File: 1016_27.D
Acq: 16 Oct 2015 6:10 pm

Tgt Ion: 59 Resp: 1963

Ion	Ratio	Lower	Upper
59	100		
45	121.3	65.8	98.8#
74	62.6	54.2	81.4

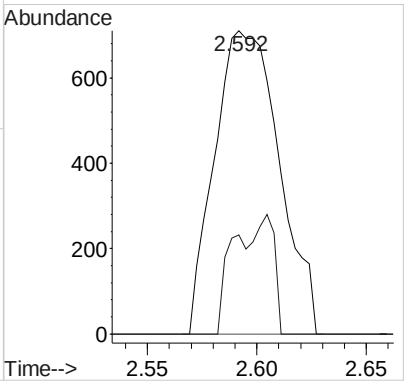


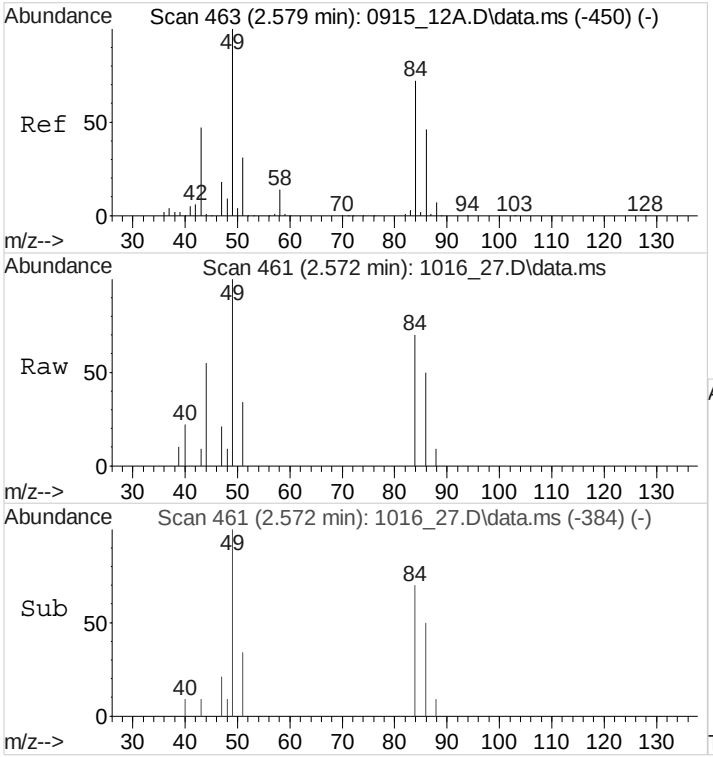


#16
ACETONE
Concen: 0.7732914 ppb
RT: 2.592 min Scan# 467
Delta R.T. 0.001 min
Lab File: 1016 27.D
Acq: 16 Oct 2015 6:10 pm

Tgt Ion: 43 Resp: 1460

Ion	Ratio	Lower	Upper
43	100		
58	0.0	25.0	37.4#

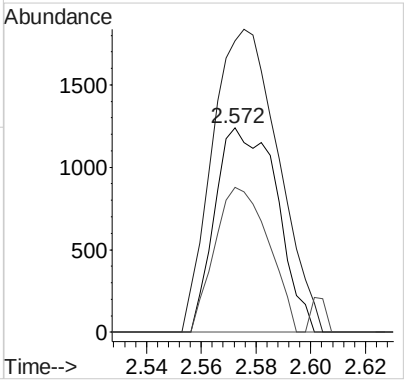


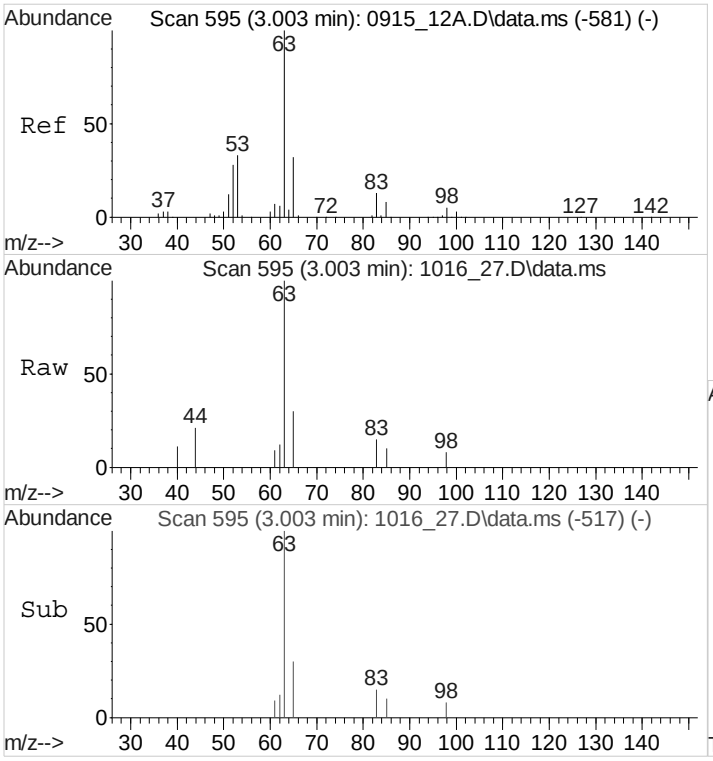


#19
METHYLENE CHLORIDE
Concen: 0.4476028 ppb
RT: 2.572 min Scan# 461
Delta R.T. -0.003 min
Lab File: 1016_27.D
Acq: 16 Oct 2015 6:10 pm

Tgt Ion: 84 Resp: 1949

Ion	Ratio	Lower	Upper
84	100		
49	158.1	115.0	172.4
86	61.9	51.4	77.2

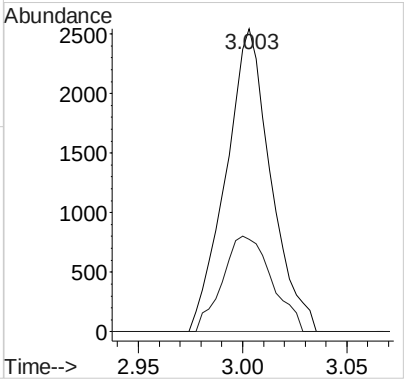


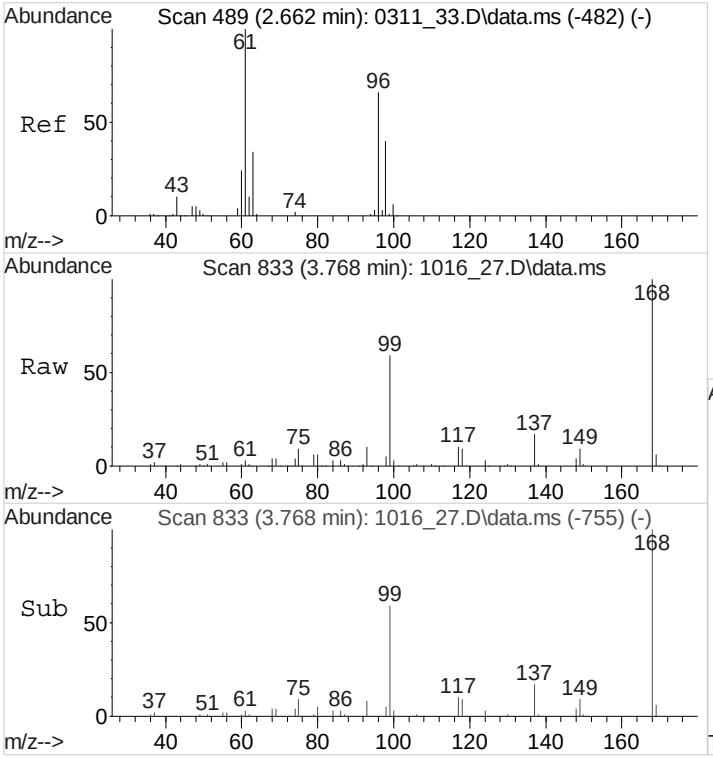


#24
1,1-DICHLOROETHANE
Concen: 0.4926048 ppb
RT: 3.003 min Scan# 595
Delta R.T. 0.000 min
Lab File: 1016 27.D
Acq: 16 Oct 2015 6:10 pm

Tgt Ion: 63 Resp: 3808

Ion	Ratio	Lower	Upper
63	100		
65	34.5	25.9	38.9

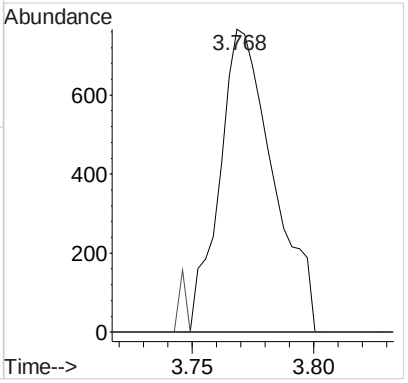


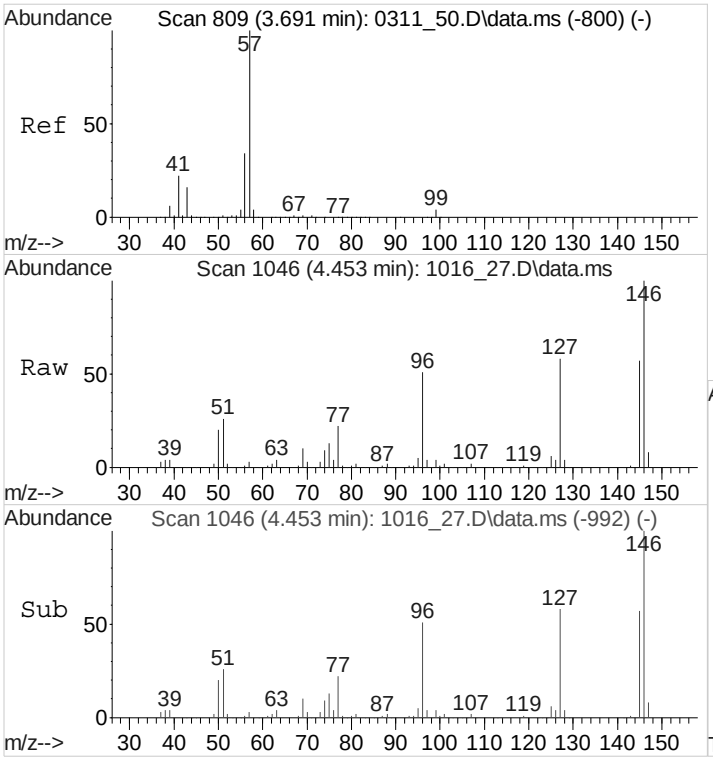


#108
METHACRYLONITRILE
Concen: 0.7375879 ppb
RT: 3.768 min Scan# 833
Delta R.T. 0.000 min
Lab File: 1016_27.D
Acq: 16 Oct 2015 6:10 pm

Tgt Ion: 67 Resp: 1180

Ion	Ratio	Lower	Upper
67	100		
41	0.0	129.0	193.6#
39	0.0	68.3	102.5#
52	0.0	37.0	55.4#

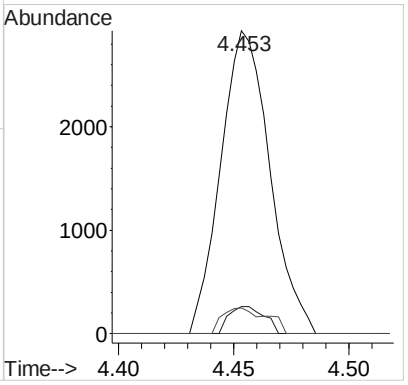




#119
1,4-DIOXANE
Concen: 112.7558218 ppb
RT: 4.453 min Scan# 1046
Delta R.T. -0.077 min
Lab File: 1016 27.D
Acq: 16 Oct 2015 6:10 pm

Tgt Ion: 88 Resp: 4339

Ion	Ratio	Lower	Upper
88	100		
58	0.0	53.9	80.9#
43	0.0	0.0	0.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 28.D
Acq On : 16 Oct 2015 6:28 pm
Operator : 189
Sample : L793892-13 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:22:34 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

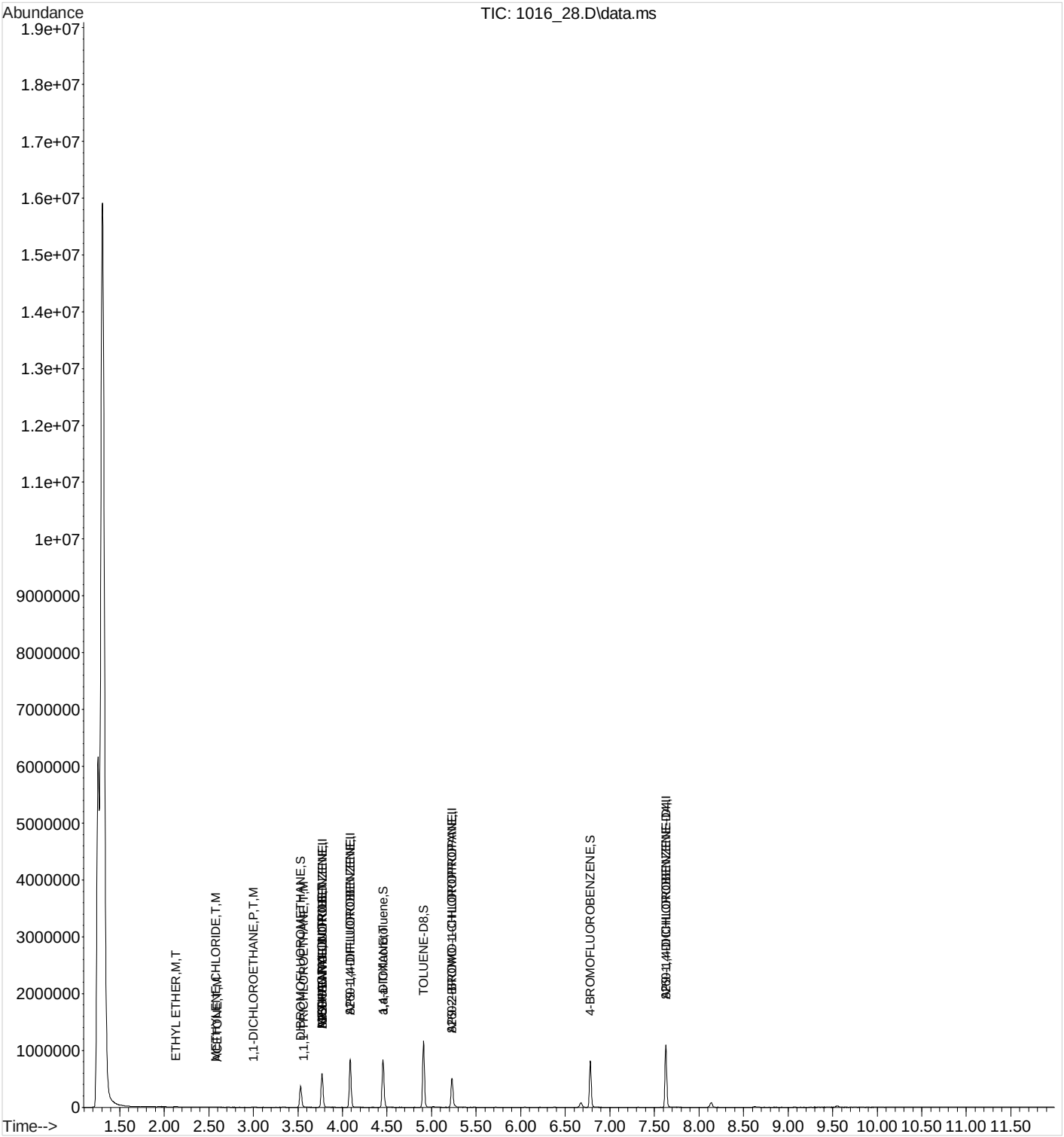
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	3.772	168	316013	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	512835	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.228	79	84765	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	244231	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.772	168	316013	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.087	114	512835	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.228	79	84765	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	244231	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.530	111	179726	37.7530497	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 94.38%			
46) a,a,a-Trifluorotoluene	4.457	146	275199	41.6117759	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.03%			
50) TOLUENE-D8	4.910	98	623964	41.6219646	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.05%			
68) 4-BROMOFLUOROBENZENE	6.781	95	226595	42.5669996	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 106.42%			
Target Compounds						Qvalue
3) PROPENE	1.338	41	646	Below Cal	#	17
12) ETHYL ETHER	2.129	59	3818	1.3960669	ppb	# 86
16) ACETONE	2.592	43	1505	0.7786790	ppb	# 43
19) METHYLENE CHLORIDE	2.579	84	1889	0.4237841	ppb	85
24) 1,1-DICHLOROETHANE	3.000	63	6045	0.7638880	ppb	97
34) 1,1,1-TRICHLOROETHANE	3.559	97	1908	0.3330738	ppb	# 86
108) METHACRYLONITRILE	3.768	67	993	0.6063351	ppb	# 1
111) ISOBUTANOL	3.772	43	501	1.8974687	ppb	# 1
119) 1,4-DIOXANE	4.453	88	4160	108.3430552	ppb	# 16

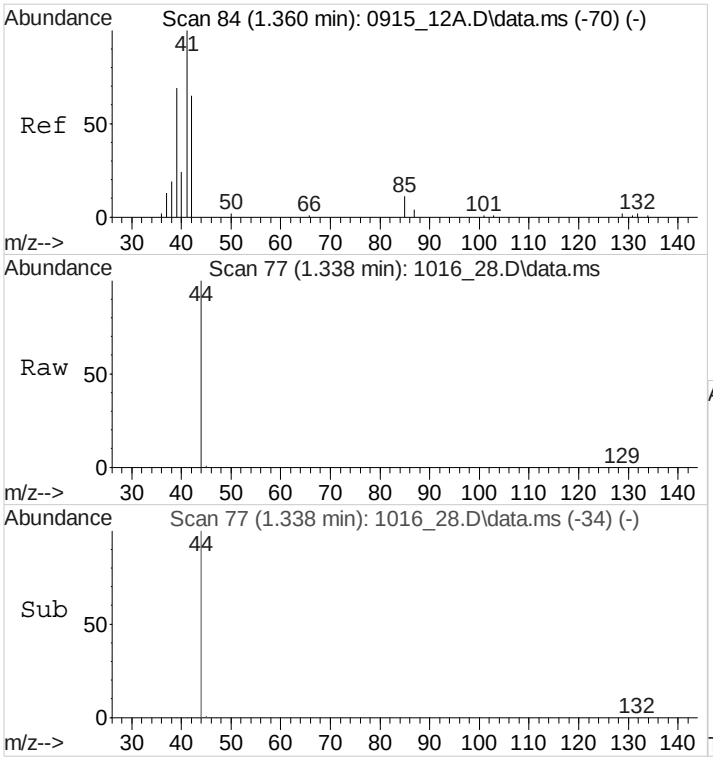
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\101615\
Data File : 1016 28.D
Acq On : 16 Oct 2015 6:28 pm
Operator : 189
Sample : L793892-13 1x WG822246 V8260TCLC
Misc : water IS/SURR15A20860
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Oct 17 10:22:34 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

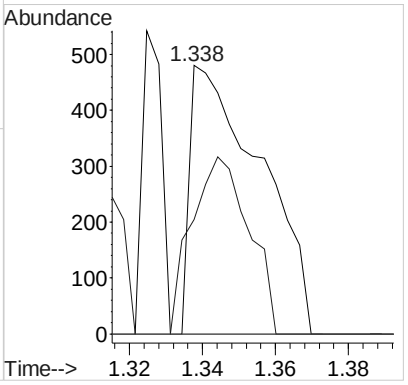


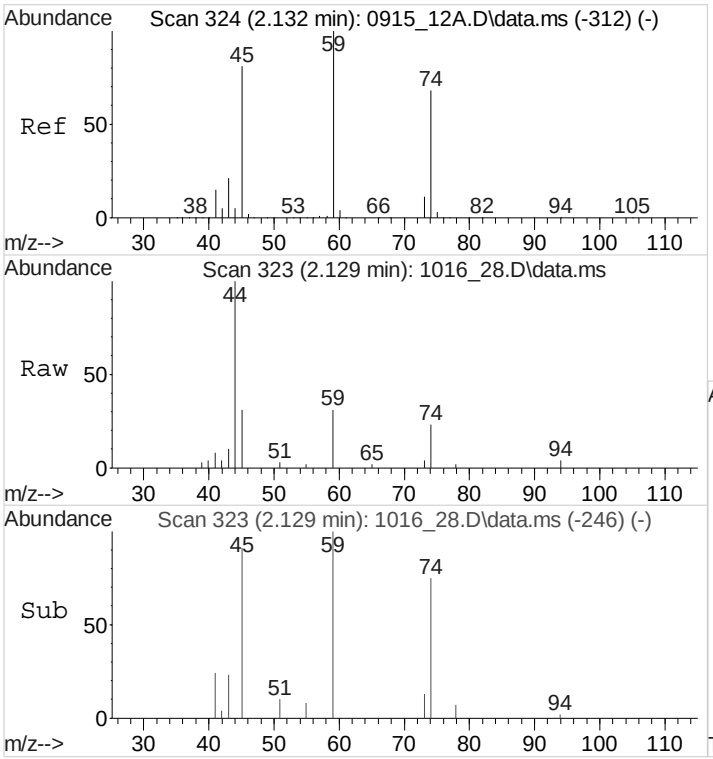


#3
PROPENE
Concen: Below Cal
RT: 1.338 min Scan# 77
Delta R.T. -0.012 min
Lab File: 1016 28.D
Acq: 16 Oct 2015 6:28 pm

Tgt Ion: 41 Resp: 646

Ion	Ratio	Lower	Upper
41	100		
39	0.0	55.2	82.8#
42	0.0	51.4	77.2#

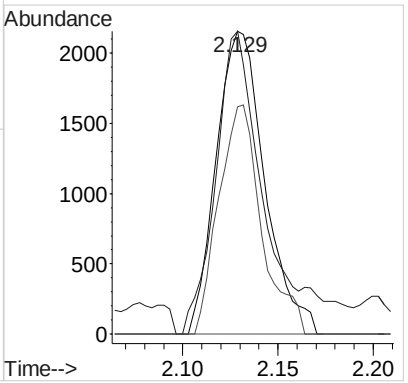


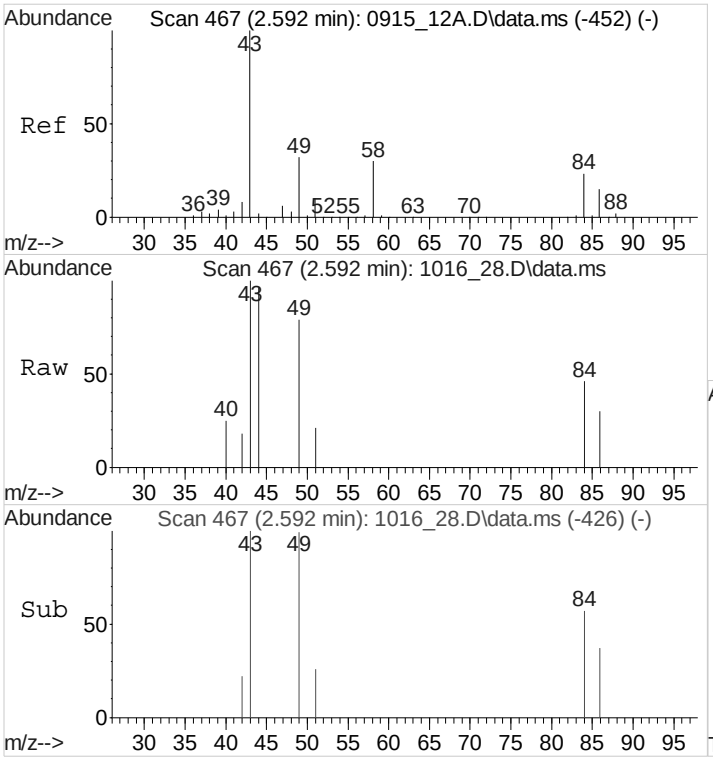


#12
ETHYL ETHER
Concen: 1.3960669 ppb
RT: 2.129 min Scan# 323
Delta R.T. -0.003 min
Lab File: 1016_28.D
Acq: 16 Oct 2015 6:28 pm

Tgt Ion: 59 Resp: 3818

Ion	Ratio	Lower	Upper
59	100		
45	103.9	65.8	98.8#
74	66.6	54.2	81.4

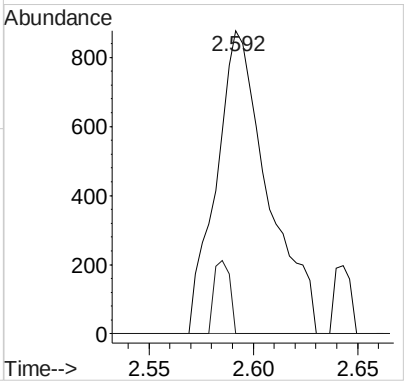


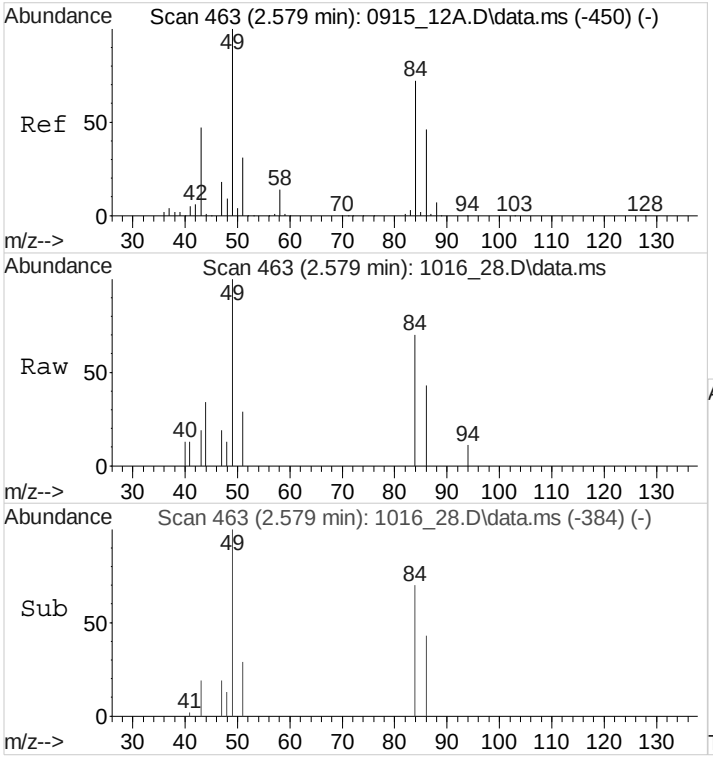


#16
ACETONE
Concen: 0.7786790 ppb
RT: 2.592 min Scan# 467
Delta R.T. 0.001 min
Lab File: 1016 28.D
Acq: 16 Oct 2015 6:28 pm

Tgt Ion: 43 Resp: 1505

Ion	Ratio	Lower	Upper
43	100		
58	0.0	25.0	37.4#

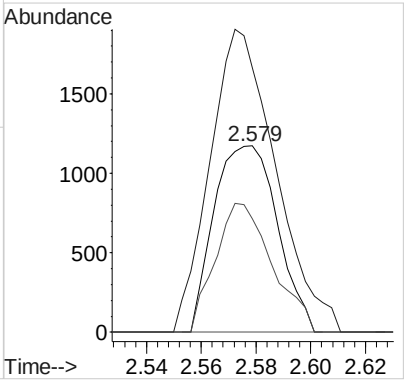


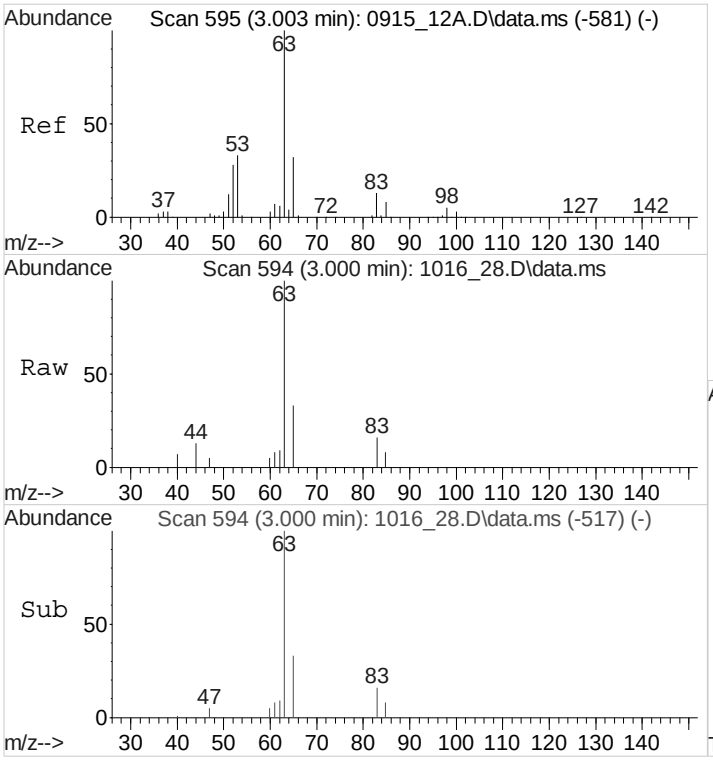


#19
METHYLENE CHLORIDE
Concen: 0.4237841 ppb
RT: 2.579 min Scan# 463
Delta R.T. 0.004 min
Lab File: 1016_28.D
Acq: 16 Oct 2015 6:28 pm

Tgt Ion: 84 Resp: 1889

Ion	Ratio	Lower	Upper
84	100		
49	168.5	115.0	172.4
86	62.2	51.4	77.2

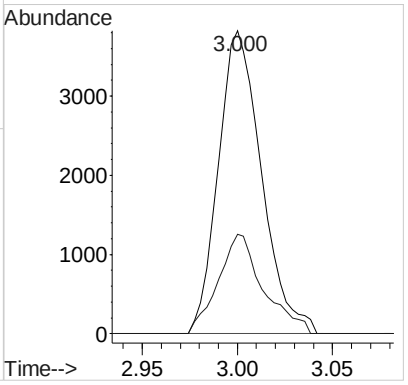


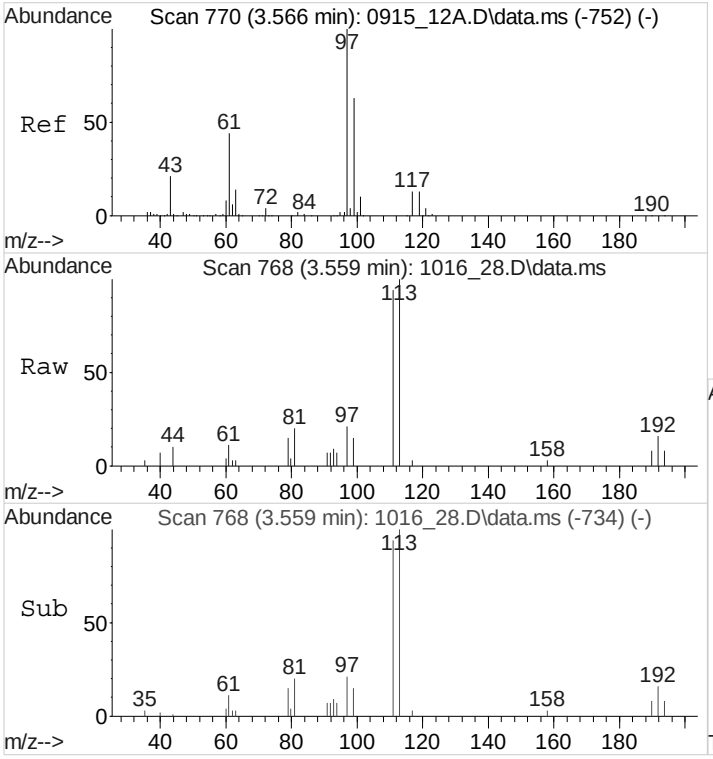


#24
1,1-DICHLOROETHANE
Concen: 0.7638880 ppb
RT: 3.000 min Scan# 594
Delta R.T. -0.003 min
Lab File: 1016 28.D
Acq: 16 Oct 2015 6:28 pm

Tgt Ion: 63 Resp: 6045

Ion	Ratio	Lower	Upper
63	100		
65	34.1	25.9	38.9

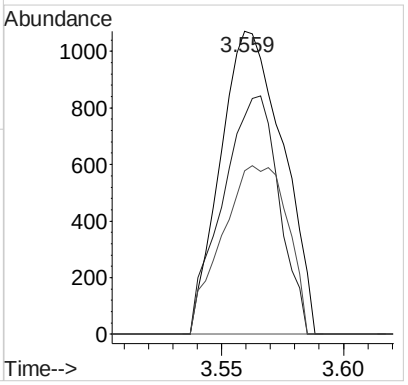


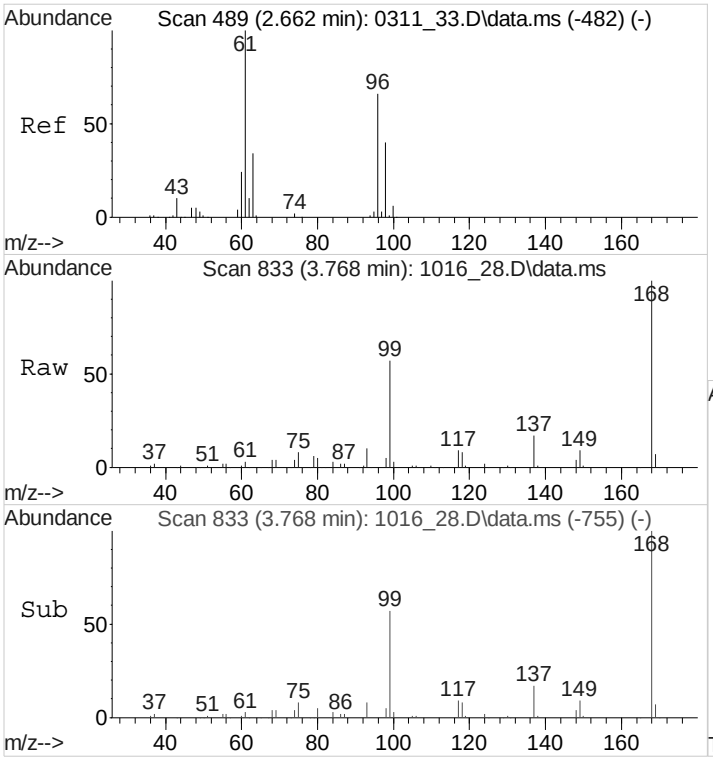


#34
1,1,1-TRICHLOROETHANE
Concen: 0.3330738 ppb
RT: 3.559 min Scan# 768
Delta R.T. -0.003 min
Lab File: 1016_28.D
Acq: 16 Oct 2015 6:28 pm

Tgt Ion: 97 Resp: 1908

Ion	Ratio	Lower	Upper
97	100		
99	71.3	51.4	77.2
61	58.2	35.9	53.9#

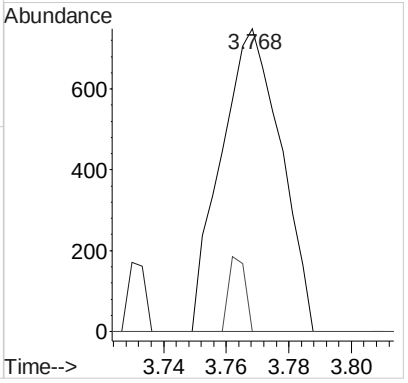


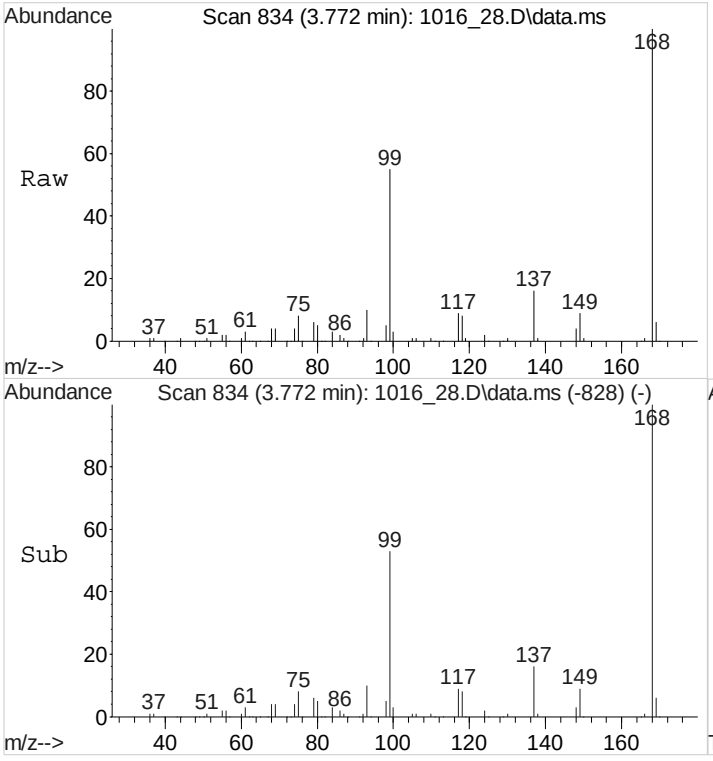


#108
METHACRYLONITRILE
Concen: 0.6063351 ppb
RT: 3.768 min Scan# 833
Delta R.T. 0.000 min
Lab File: 1016 28.D
Acq: 16 Oct 2015 6:28 pm

Tgt Ion: 67 Resp: 993

Ion	Ratio	Lower	Upper
67	100		
41	0.0	129.0	193.6#
39	0.0	68.3	102.5#
52	0.0	37.0	55.4#

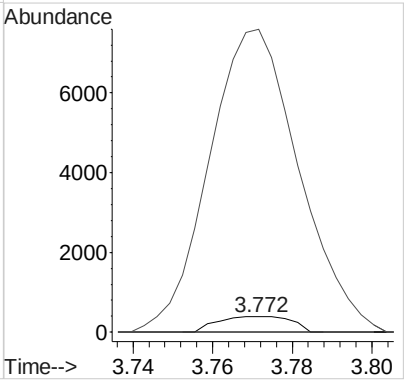


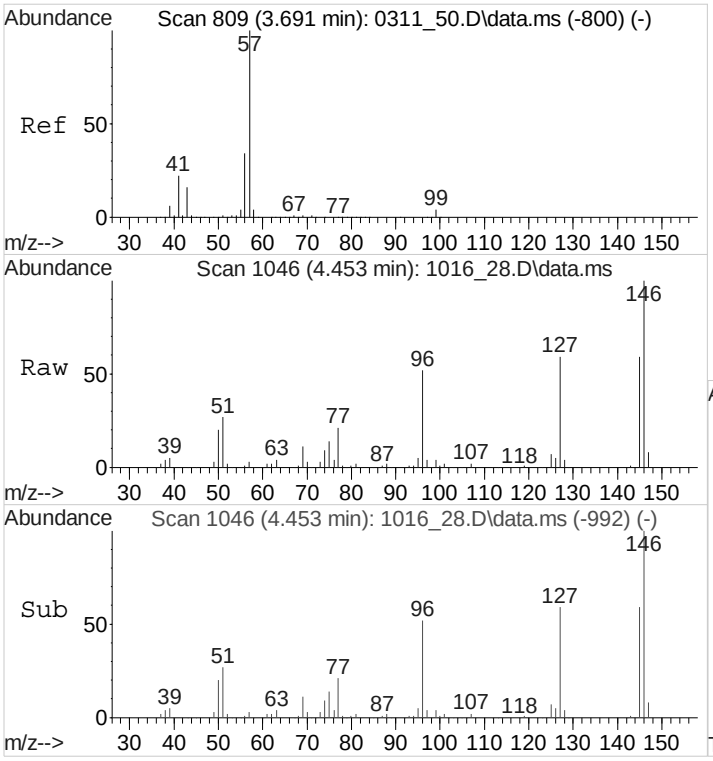


#111
ISOBUTANOL
Concen: 1.8974687 ppb
RT: 3.772 min Scan# 834
Delta R.T. -0.058 min
Lab File: 1016_28.D
Acq: 16 Oct 2015 6:28 pm

Tgt Ion: 43 Resp: 501

Ion	Ratio	Lower	Upper
43	100		
41	0.0	54.1	81.1#
74	2375.2	6.8	10.2#

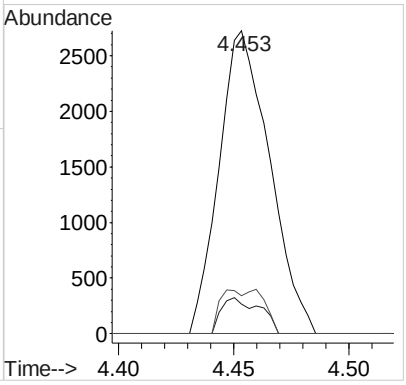




#119
1,4-DIOXANE
Concen: 108.3430552 ppb
RT: 4.453 min Scan# 1046
Delta R.T. -0.077 min
Lab File: 1016 28.D
Acq: 16 Oct 2015 6:28 pm

Tgt Ion: 88 Resp: 4160

Ion	Ratio	Lower	Upper
88	100		
58	0.0	53.9	80.9#
43	0.0	0.0	0.0



Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS30
Computer Name : XENAPP6
Released By : Chris Harbin
Date Released : 10/22/2015 8:40:47 AM
Run ID : 101915
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1019_01	INSTBLK	V830I04O						1	1	10/19/15 0357	"water 15G07402"
2	1019_01T	INSTBLK								1	10/19/15 0357	
3	1019_02	ICV VMS 25 PPB 15J19850	V830I04O						1	1	10/19/15 0419	"water 15G07402"
3	1019_02-1	ICV VMS 25 PPB 15J19850	V830I04O						1	1	10/19/15 0419	"water 15G07402"
4	1019_02T	ICV VMS 25 ppb 15J19850	V830I04O							1	10/19/15 0419	
5	1019_03	DNR ICV GROMS 5.0 PPM 15J13587	V830I04O						1	1	10/19/15 0453	"water 15G07402"
6	1019_04	LCS	V830I04O	WG822564	V8260TCLC	GW			1	1	10/19/15 0532	"water 15G07402/SPK15J19851"
6	1019_04-2	LCS	V830I04O	WG822564	V8260	GW	BURNMCKC		1	1	10/19/15 0532	"water 15G07402/SPK15J19851"
7	1019_05	LCSD	V830I04O	WG822564	V8260TCLC	GW			1	1	10/19/15 0554	"water 15G07402/SPK15J19851"
7	1019_05-2	LCSD	V830I04O	WG822564	V8260	GW	BURNMCKC		1	1	10/19/15 0554	"water 15G07402/SPK15J19851"
8	1019_06	1PPB	V830I04O						1	1	10/19/15 0617	"water 15G07402"
9	1019_07	AP9CV 10A PPB 15H20824	V830I04O						1	1	10/19/15 0640	"water 15G07402"
10	1019_08	LCSAP9	V830I04O						1	1	10/19/15 0702	"water 15G07402/SPK15H19752"
11	1019_09	INSTBLK	V830I04O						1	1	10/19/15 0725	"water 15G07402"
12	1019_10	BLANK	V830I04O	WG822564	V8260TCLC	GW			1	1	10/19/15 0747	"water 15G07402"
12	1019_10-2	BLANK	V830I04O	WG822564	V8260	GW	BURNMCKC		1	1	10/19/15 0747	"water 15G07402"
13	1019_11	L793854-03	V830I04O	WG822243	V8260BTEXMN	GW	SEMSMEMR	TN	1	1	10/19/15 0810	"water 15G07402"
14	1019_12	MS	V830I04O	WG822243	V8260BTEXMN	GW			1	1	10/19/15 0832	"water 15G07402/SPK15J19851"
15	1019_13	MSD	V830I04O	WG822243	V8260BTEXMN	GW			1	1	10/19/15 0855	"water 15G07402/SPK15J19851"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS30
Computer Name : XENAPP6
Released By : Chris Harbin
Date Released : 10/22/2015 8:40:47 AM
Run ID : 101915
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
16	1019_14	MS	V830I04O	WG822564	V8260TCLC	GW			1	1	10/19/15 0918	"water 15G07402/SPK15J19851"
16	1019_14-2	MS	V830I04O	WG822564	V8260	GW	BURNMCKC		1	1	10/19/15 0918	"water 15G07402/SPK15J19851"
17	1019_15	MSD	V830I04O	WG822564	V8260TCLC	GW			1	1	10/19/15 0940	"water 15G07402/SPK15J19851"
17	1019_15-2	MSD	V830I04O	WG822564	V8260	GW	BURNMCKC		1	1	10/19/15 0940	"water 15G07402/SPK15J19851"
18	1019_16	INSTBLK	V830I04O						1	1	10/19/15 1003	"water 15G07402"
19	1019_17	L794756-01	V830I04O	WG822564	V8260BTEXMN	GW	PMENVGTN	TN	1	1	10/19/15 1026	"water 15G07402"
20	1019_18	L793854-07	V830I04O	WG822564	V8260BTEXMN	GW	SEMSMEMR	TN	10	10	10/19/15 1048	"water 15G07402"
21	1019_19	L793887-12	V830I04O	WG822564	V8260OXYUGMI	GW	PRAENVMISSA	MI	1	1	10/19/15 1111	"water 15G07402"
22	1019_20	L793887-13	V830I04O	WG822564	V8260OXYUGMI	GW	PRAENVMISSA	MI	100	100	10/19/15 1133	"water 15G07402"
23	1019_21	L793887-19	V830I04O	WG822564	V8260OXYUGMI	GW	PRAENVMISSA	MI	1	1	10/19/15 1156	"water 15G07402"
24	1019_22	L794713-01	V830I04O	WG822564	V8260UGPA	GW	INSITE	PA	1	1	10/19/15 1219	"water 15G07402"
25	1019_23	L794686-03	V830I04O	WG822564	V8260STARS	GW	LABRNY	NY	1	1	10/19/15 1241	"water 15G07402"
26	1019_24	DNR L794713-02	V830I04O	WG822564					5	5	10/19/15 1304	"water 15G07402"
27	1019_25	L794713-03	V830I04O	WG822564	V8260UGPA	GW	INSITE	PA	1	1	10/19/15 1326	"water 15G07402"
28	1019_26	L794713-04	V830I04O	WG822564	V8260UGPA	GW	INSITE	PA	1	1	10/19/15 1349	"water 15G07402"
29	1019_27	L794713-05	V830I04O	WG822564	V8260UGPA	GW	INSITE	PA	1	1	10/19/15 1412	"water 15G07402"
30	1019_28	L794713-06	V830I04O	WG822564	V8260UGPA	GW	INSITE	PA	1	1	10/19/15 1434	"water 15G07402"
31	1019_29	L794713-07	V830I04O	WG822564	V8260UGPA	GW	INSITE	PA	1	1	10/19/15 1457	"water 15G07402"
32	1019_30	L793892-09	V830I04O	WG822564	V8260TCLC	GW	LABRNY	NY	1	1	10/19/15 1519	"water 15G07402"
33	1019_31	L793542-40	V830I04O	WG822564	V8260	GW	BURNMCKC	MO	5	5	10/19/15 1542	"water 15G07402"
34	1019_32	L793542-43	V830I04O	WG822564	V8260	GW	BURNMCKC	MO	10	10	10/19/15 1605	"water 15G07402"
35	1019_33	DNR L793793-11	V830I04O	WG822564					100	1	10/19/15 1627	"water 15G07402"
36	1019_34	INSTBLK	V830I04O						1	1	10/19/15 1812	"water 15G07402"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS30
Computer Name : XENAPP6
Released By : Chris Harbin
Date Released : 10/22/2015 8:40:47 AM
Run ID : 101915
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
37	1019_34T	INSTBLK								1	10/19/15 1812	
38	1019_35	ICV VMS 25 PPB 15J19850	V830I04O						1	1	10/19/15 1835	"water 15G07402"
38	1019_35-1	ICV VMS 25 PPB 15J19850	V830I04O						1	1	10/19/15 1835	"water 15G07402"
38	1019_35-2	ICV VMS 25 PPB 15J19850	V830I04O						1	1	10/19/15 1835	"water 15G07402"
39	1019_36	DNR	V830I04O						1	1	10/19/15 1857	"water 15G07402"
40	1019_37	LCS	V830I04O	WG822763	V602	GW			1	1	10/19/15 1920	"water 15G07402/SPK15J19851"
41	1019_38	LCSD	V830I04O	WG822763	V602	GW			1	1	10/19/15 1943	"water 15G07402/SPK15J19851"
42	1019_39	1	V830I04O						1	1	10/19/15 2005	"water 15G07402"
43	1019_40	INSTBLK	V830I04O						1	1	10/19/15 2028	"water 15G07402"
44	1019_41	BLANK	V830I04O	WG822763	V602	GW			1	1	10/19/15 2050	"water 15G07402"
45	1019_42	MS	V830I04O	WG822763	V602	GW			1	1	10/19/15 2113	"water 15G07402/SPK15J19851"
46	1019_43	MSD	V830I04O	WG822763	V602	GW			1	1	10/19/15 2136	"water 15G07402/SPK15J19851"
47	1019_44	INSTBLK	V830I04O						1	1	10/19/15 2158	"water 15G07402"
48	1019_45	L794946-01	V830I04O	WG822763	V602	GW	MIDATLRNCSSA	NC	1	1	10/19/15 2221	"water 15G07402"
49	1019_46	L794946-02	V830I04O	WG822763	V602	GW	MIDATLRNCSSA	NC	1	1	10/19/15 2244	"water 15G07402"
50	1019_47	L794698-01	V830I04O	WG822763	V602	GW	EXCELENVR	NC	1	1	10/19/15 2306	"water 15G07402"
51	1019_48	L794698-02	V830I04O	WG822763	V602	GW	EXCELENVR	NC	250	250	10/19/15 2329	"water 15G07402"
52	1019_49	L794946-03	V830I04O	WG822763	V602	GW	MIDATLRNCSSA	NC	1	1	10/19/15 2351	"water 15G07402"
53	1019_50	L794946-04	V830I04O	WG822763	V602	GW	MIDATLRNCSSA	NC	1	1	10/20/15 0014	"water 15G07402"
54	1019_51	L794946-05	V830I04O	WG822763	V602	GW	MIDATLRNCSSA	NC	1	1	10/20/15 0037	"water 15G07402"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS30
Computer Name : XENAPP6
Released By : Chris Harbin
Date Released : 10/22/2015 8:40:47 AM
Run ID : 101915
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
55	1019_52	L794946-06	V830I04O	WG822763	V602	GW	MIDATLRNCSSA	NC	1	1	10/20/15 0059	"water 15G07402"
56	1019_53	L794946-07	V830I04O	WG822763	V602	GW	MIDATLRNCSSA	NC	1	1	10/20/15 0122	"water 15G07402"
57	1019_54	L794946-08	V830I04O	WG822763	V602	GW	MIDATLRNCSSA	NC	1	1	10/20/15 0145	"water 15G07402"
58	1019_55	L794946-09	V830I04O	WG822763	V602	GW	MIDATLRNCSSA	NC	20	20	10/20/15 0207	"water 15G07402"
59	1019_56	L794946-10	V830I04O	WG822763	V602	GW	MIDATLRNCSSA	NC	1	1	10/20/15 0230	"water 15G07402"
60	1019_57	L794946-11	V830I04O	WG822763	V602	GW	MIDATLRNCSSA	NC	10	10	10/20/15 0252	"water 15G07402"
61	1019_58	L794946-12	V830I04O	WG822763	V602	GW	MIDATLRNCSSA	NC	1	1	10/20/15 0315	"water 15G07402"
62	1019_59	L794946-13	V830I04O	WG822763	V602	GW	MIDATLRNCSSA	NC	1	1	10/20/15 0338	"water 15G07402"
63	1019_60	L794946-14	V830I04O	WG822763	V602	GW	MIDATLRNCSSA	NC	1	1	10/20/15 0400	"water 15G07402"
64	1019_61	L794946-15	V830I04O	WG822763	V602	GW	MIDATLRNCSSA	NC	10	10	10/20/15 0423	"water 15G07402"
65	1019_62	L794946-16	V830I04O	WG822763	V602	GW	MIDATLRNCSSA	NC	1	1	10/20/15 0446	"water 15G07402"
66	1019_63	L794946-17	V830I04O	WG822763	V602	GW	MIDATLRNCSSA	NC	1	1	10/20/15 0508	"water 15G07402"
67	1019_64	L794946-18	V830I04O	WG822763	V602	GW	MIDATLRNCSSA	NC	1	1	10/20/15 0531	"water 15G07402"

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 02.D
Acq On : 19 Oct 2015 4:19 am
Operator : 189
Sample : ICV VMS 25 ppb 15J19850
Misc : water 15G07402
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 19 04:40:29 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.353	168	562018	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.687	114	911939	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.855	79	129892	40.0000000	ppb	#	0.00
84) 8260-1,4-DICHLOROBENZE...	8.240	152	410186	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	562018	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.687	114	911939	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.855	79	129892	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.240	152	410186	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.115	111	257017	37.3854259	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 93.46%				
46) a,a,a-Trifluorotoluene	5.052	146	520155	43.9811114	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 109.95%				
50) TOLUENE-D8	5.515	98	1061066	41.4153253	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 103.54%				
68) 4-BROMOFLUOROBENZENE	7.401	95	376109	41.6910691	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.23%				
Target Compounds							Qvalue
3) PROPENE	1.658	41	22943	15.8078651	ppb		97
4) DICHLORODIFLUOROMETHANE	1.700	85	120471	22.6718704	ppb		99
5) CHLOROMETHANE	1.877	50	139595	21.6599212	ppb		99
6) VINYL CHLORIDE	1.938	62	138407	21.6189268	ppb		99
7) 1,3-BUTADIENE	1.950	39	75248	15.7460767	ppb		90
8) BROMOMETHANE	2.199	94	74077	27.4023336	ppb		98
9) CHLOROETHANE	2.290	64	67667	21.4437576	ppb		97
10) TRICHLOROFLUOROMETHANE	2.394	101	162235	22.3964510	ppb		99
11) DICHLOROFLUOROMETHANE	2.430	67	210151	21.8180400	ppb		99
12) ETHYL ETHER	2.601	59	85149	21.7161589	ppb		93
13) ACROLEIN	2.960	56	88001	115.0830196	ppb		100
14) 1,1-DICHLOROETHENE	2.747	61	157235	21.3600334	ppb		89
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	116377	23.9136776	ppb		94
16) ACETONE	3.130	43	234393	117.1769693	ppb		90
17) IODOMETHANE	2.856	142	847830	132.5920579	ppb		94
18) CARBON DISULFIDE	2.783	76	370562	20.2404215	ppb	#	95
19) METHYLENE CHLORIDE	3.112	84	134496	23.9544259	ppb		91
20) ACRYLONITRILE	3.592	53	160654	108.8477803	ppb		98
21) n-Hexane	3.233	56	100965	20.3031402	ppb		88
22) TRANS-1,2-DICHLOROETHENE	3.203	96	124435	23.1344397	ppb		92
23) METHYL TERT-BUTYL ETHER	3.252	73	280556	21.4654755	ppb		98
24) 1,1-DICHLOROETHANE	3.568	63	195708	21.6049302	ppb		98
25) VINYL ACETATE	3.677	43	830792	102.8138119	ppb		96
26) DI-ISOPROPYL ETHER	3.452	45	318939	19.9200501	ppb		97
27) 2,2-Dichloropropane	3.933	77	166648	20.1806677	ppb		96
28) CIS-1,2-DICHLOROETHENE	3.872	96	134956	23.8028305	ppb		91
29) 2-BUTANONE (MEK)	4.176	43	260080	105.7519020	ppb		92
30) BROMOCHLOROMETHANE	3.988	130	77918	25.1332593	ppb		79
31) TETRAHYDROFURAN	4.115	42	22837	17.9733136	ppb		96
32) CHLOROFORM	4.012	83	188988	20.8774712	ppb		100
34) 1,1,1-TRICHLOROETHANE	4.146	97	155786	20.9686251	ppb		97
35) CARBON TETRACHLORIDE	4.109	117	153322	21.5591950	ppb		91
36) 1,1-Dichloropropene	4.213	75	147795	22.0651202	ppb		96

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 02.D
Acq On : 19 Oct 2015 4:19 am
Operator : 189
Sample : ICV VMS 25 ppb 15J19850
Misc : water 15G07402
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 19 04:40:29 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.249	41	91671	16.5687766	ppb	#	55
38)	HEPTANE	4.292	43	160008	19.1836138	ppb	#	82
39)	BENZENE	4.359	78	467029	22.3402920	ppb		93
40)	1,2-DICHLOROETHANE	4.474	62	115830	19.3364699	ppb	#	93
42)	TRICHLOROETHENE	4.681	130	132195	25.6479793	ppb		95
43)	1,2-DICHLOROPROPANE	4.998	62	82241	22.6631420	ppb		96
44)	DIBROMOMETHANE	4.943	93	66652	23.0522274	ppb		91
45)	BROMODICHLOROMETHANE	5.022	83	144937	21.0648200	ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.399	75	188962	23.3347830	ppb		100
49)	4-METHYL-2-PENTANONE (...	5.764	43	358776	92.7923290	ppb		92
51)	TOLUENE	5.551	91	513391	23.8261262	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.801	75	154607	22.4118245	ppb		97
54)	1,1,2-TRICHLOROETHANE	5.916	97	99933	25.5862352	ppb		99
55)	TETRACHLOROETHENE	5.807	164	103470	28.1635108	ppb		96
56)	1,3-Dichloropropane	6.099	76	165241	23.6951630	ppb		99
57)	2-HEXANONE	6.306	58	200125	128.0008802	ppb		85
58)	CHLORODIBROMOMETHANE	6.044	129	110132	25.7730314	ppb		99
59)	1,2-DIBROMOETHANE	6.220	107	104696	26.2741523	ppb		99
60)	CHLOROBENZENE	6.555	112	345783	27.2956284	ppb		93
61)	1,1,1,2-TETRACHLOROETHANE	6.591	133	105772	25.6910285	ppb	#	99
62)	ETHYLBENZENE	6.549	106	191039	26.5454733	ppb		92
63)	M&P-XYLENE	6.646	106	461657	52.1341929	ppb		92
64)	O-XYLENE	6.957	106	224979	26.1355222	ppb		92
65)	STYRENE	6.993	104	365730	26.2929383	ppb		90
66)	Bromoform	7.036	173	66954	26.4311103	ppb		98
67)	Isopropylbenzene	7.169	105	578678	25.4797807	ppb		97
69)	Bromobenzene	7.486	77	219282	22.8583008	ppb	#	86
70)	1,1,2,2-TETRACHLOROETHANE	7.528	83	124783	24.8859847	ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.644	110	31347	24.5951795	ppb		97
72)	TRANS-1,4-DICHLORO-2-B...	7.656	53	26060	20.8493062	ppb		96
73)	n-Propylbenzene	7.474	91	680806	25.4907290	ppb		97
74)	4-ETHYLTOLUENE	7.547	105	573022	25.3291481	ppb		97
75)	2-Chlorotoluene	7.614	126	133540	26.7117436	ppb	#	81
76)	4-Chlorotoluene	7.735	91	398346	24.4902153	ppb		95
77)	1,3,5-Trimethylbenzene	7.607	105	466716	25.2256349	ppb		95
78)	tert-Butylbenzene	7.857	119	403684	26.4281810	ppb		94
79)	1,2,4-Trimethylbenzene	7.912	105	460442	24.8551954	ppb		96
80)	sec-Butylbenzene	7.991	105	626440	25.5836563	ppb		98
81)	1,3-DICHLOROBENZENE	8.191	146	278229	28.1721567	ppb		99
82)	p-Isopropyltoluene	8.094	119	528021	26.3763614	ppb		96
83)	DICYCLOPENTADIENE	8.100	66	497852	23.6142805	ppb		94
85)	1,4-DICHLOROBENZENE	8.252	146	262353	24.1196405	ppb		96
86)	1,2,3-TRIMETHYLBENZENE	8.252	105	446367	22.8356452	ppb		94
87)	1,2-DICHLOROBENZENE	8.593	146	259812	24.8038261	ppb		97
88)	n-Butylbenzene	8.423	91	485380	21.4624610	ppb		98
89)	1,2-Dibromo-3-chloropr...	9.232	157	25072	23.4932629	ppb	#	86
90)	1,2,4-Trichlorobenzene	9.779	180	178286	26.8837121	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.737	225	80820	23.0801938	ppb		99
92)	Naphthalene	10.053	128	360960	23.6322709	ppb		99
93)	1,2,3-Trichlorobenzene	10.211	180	150145	25.2963790	ppb		98
94)	1-Methylnaphthalene	10.923	142	129311	22.4751910	ppb		97
95)	2-Methylnaphthalene	11.057	142	107322	21.5321753	ppb		95
100)	Methyl Acetate	3.233	43	148961	51.8356314	ppb	#	69
101)	ACETONITRILE	3.452	41	47808	100.4948392	ppb	#	42

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 02.D
Acq On : 19 Oct 2015 4:19 am
Operator : 189
Sample : ICV VMS 25 ppb 15J19850
Misc : water 15G07402
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 19 04:40:29 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
104) chloroprene	3.592	53	160654	20.6151240	ppb	#	21
106) PROPIONITRILE	4.286	54	1624	3.0021258	ppb	#	1
108) METHACRYLONITRILE	4.353	67	1059	0.6202568	ppb	#	1
110) tert-butyl formate	4.213	59	554	0.4271225	ppb	#	16
112) t-Amyl Alcohol	4.474	59	516	1.4141624	ppb	#	19
113) TERT-AMYL METHYL ETHER	4.359	73	7514	0.4924619	ppb	#	23
117) 2-nitropropane	5.764	43	358776	334.7637923	ppb	#	38
119) 1,4-DIOXANE	5.131	88	1284	23.1251388	ppb	#	47
120) n-octane	5.405	85	2754	0.5351782	ppb	#	28
121) 3,3-DIMETHYL-1-BUTANOL	6.306	57	62911	145.4874534	ppb	#	43
123) ETHYL METHACRYLATE	5.764	69	3148	0.7084685	ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.431	53	1117	0.9878656	ppb	#	30
125) Cyclohexanone	7.656	55	706	1.0617634	ppb	#	1
126) PENTACHLOROETHANE	7.912	117	17094	6.9922532	ppb	#	16

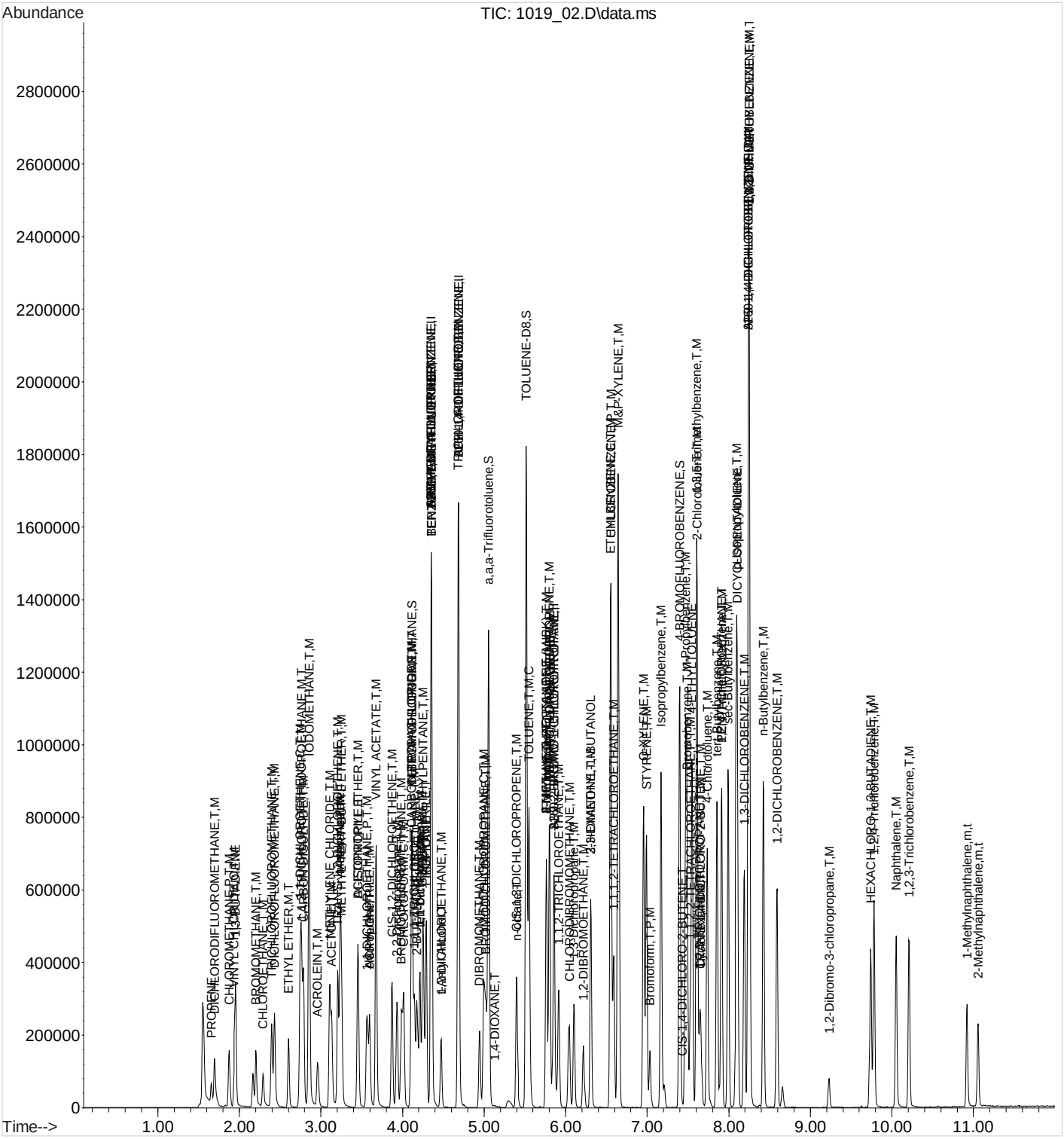
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 02.D
Acq On : 19 Oct 2015 4:19 am
Operator : 189
Sample : ICV VMS 25 ppb 15J19850
Misc : water 15G07402
ALS Vial : 2 Sample Multiplier: 1

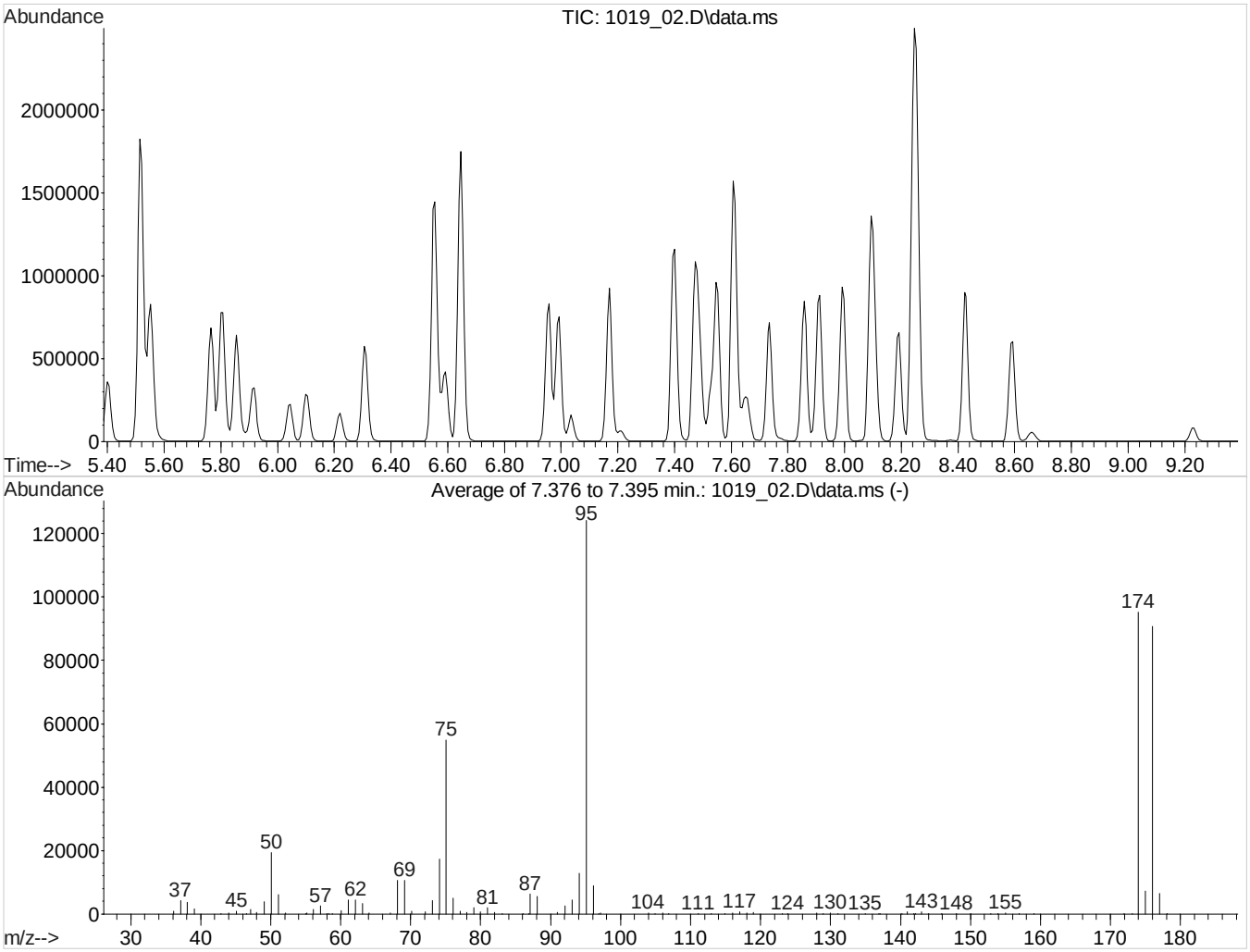
Quant Time: Oct 19 04:40:29 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\101915\
Data File : 1019 02.D
Acq On : 19 Oct 2015 4:19 am
Operator : 189
Sample : ICV VMS 25 ppb 15J19850
Misc : water 15G07402
ALS Vial : 2 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V830I04O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
Last Update : Mon Sep 07 14:20:13 2015



Spectrum Information: Average of 7.376 to 7.395 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.5	19303	PASS
75	95	30	60	44.2	54949	PASS
95	95	100	100	100.0	124246	PASS
96	95	5	9	7.1	8857	PASS
173	174	0.00	2	0.0	41	PASS
174	95	50	150	76.6	95188	PASS
175	174	5	9	7.6	7236	PASS
176	174	95	101	95.4	90826	PASS
177	176	5	9	7.1	6423	PASS

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 04.D
Acq On : 19 Oct 2015 5:32 am
Operator : 189
Sample : LCS 1x WG822564
Misc : water 15G07402/SPK15J19851
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 19 06:42:19 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.353	168	567956	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.687	114	914496	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.856	79	126966	40.0000000	ppb	#	0.00
84) 8260-1,4-DICHLOROBENZE...	8.240	152	411752	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	567956	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.687	114	914496	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.856	79	126966	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.240	152	411752	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.116	111	253319	36.4622765	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 91.16%				
46) a,a,a-Trifluorotoluene	5.052	146	526546	44.3970096	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 110.99%				
50) TOLUENE-D8	5.515	98	1054657	41.0500695	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.63%				
68) 4-BROMOFLUOROBENZENE	7.395	95	371792	42.1623018	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 105.41%				
Target Compounds							Qvalue
3) PROPENE	1.658	41	12390	7.9214588	ppb		96
4) DICHLORODIFLUOROMETHANE	1.700	85	99400	18.5108666	ppb		99
5) CHLOROMETHANE	1.877	50	119219	18.3049277	ppb		99
6) VINYL CHLORIDE	1.938	62	123548	19.0962164	ppb		100
7) 1,3-BUTADIENE	1.956	39	71391	14.7827897	ppb		90
8) BROMOMETHANE	2.205	94	67325	24.6442757	ppb		96
9) CHLOROETHANE	2.297	64	60205	18.8795684	ppb		96
10) TRICHLOROFLUOROMETHANE	2.394	101	148739	20.3186590	ppb		100
11) DICHLOROFLUOROMETHANE	2.430	67	191492	19.6729932	ppb		99
12) ETHYL ETHER	2.601	59	75523	19.0597950	ppb		93
13) ACROLEIN	2.960	56	67821	87.7654055	ppb		100
14) 1,1-DICHLOROETHENE	2.747	61	145137	19.5104091	ppb		89
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	108939	22.1512445	ppb	#	94
16) ACETONE	3.130	43	197640	97.7705373	ppb		90
17) IODOMETHANE	2.856	142	804480	124.4971806	ppb		94
18) CARBON DISULFIDE	2.783	76	348479	18.8352251	ppb	#	95
19) METHYLENE CHLORIDE	3.112	84	119451	21.0524052	ppb		90
20) ACRYLONITRILE	3.592	53	138972	93.1731707	ppb		98
21) n-Hexane	3.233	56	92723	18.4508072	ppb		87
22) TRANS-1,2-DICHLOROETHENE	3.203	96	115694	21.2844682	ppb		91
23) METHYL TERT-BUTYL ETHER	3.252	73	256609	19.4280123	ppb		99
24) 1,1-DICHLOROETHANE	3.568	63	182558	19.9425500	ppb		100
25) VINYL ACETATE	3.678	43	771993	94.5383571	ppb	#	94
26) DI-ISOPROPYL ETHER	3.453	45	287612	17.7756435	ppb		98
27) 2,2-Dichloropropane	3.933	77	154637	18.5303821	ppb		95
28) CIS-1,2-DICHLOROETHENE	3.872	96	123683	21.5864860	ppb		90
29) 2-BUTANONE (MEK)	4.176	43	217605	87.5559438	ppb		91
30) BROMOCHLOROMETHANE	3.988	130	70982	22.6566022	ppb		77
31) TETRAHYDROFURAN	4.116	42	20111	15.6623996	ppb		99
32) CHLOROFORM	4.012	83	176610	19.3060972	ppb		100
34) 1,1,1-TRICHLOROETHANE	4.146	97	143295	19.0857003	ppb		97
35) CARBON TETRACHLORIDE	4.110	117	145781	20.2845101	ppb		99
36) 1,1-Dichloropropene	4.213	75	135499	20.0178845	ppb		95

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 04.D
Acq On : 19 Oct 2015 5:32 am
Operator : 189
Sample : LCS 1x WG822564
Misc : water 15G07402/SPK15J19851
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 19 06:42:19 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.249	41	91469	16.3594213	ppb		72
38)	HEPTANE	4.292	43	145344	17.2433391	ppb	#	79
39)	BENZENE	4.359	78	433483	20.5188303	ppb		94
40)	1,2-DICHLOROETHANE	4.468	62	107336	17.7311570	ppb		95
42)	TRICHLOROETHENE	4.687	130	123254	23.8464166	ppb		96
43)	1,2-DICHLOROPROPANE	4.998	62	76589	21.0466082	ppb		99
44)	DIBROMOMETHANE	4.943	93	60672	20.9253148	ppb		93
45)	BROMODICHLOROMETHANE	5.022	83	131680	19.0845657	ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.399	75	172364	21.2255930	ppb		99
49)	4-METHYL-2-PENTANONE (...	5.764	43	303554	78.2904214	ppb		92
51)	TOLUENE	5.551	91	478126	22.1274581	ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.801	75	138486	20.0187940	ppb		96
54)	1,1,2-TRICHLOROETHANE	5.916	97	90375	23.6723154	ppb		97
55)	TETRACHLOROETHENE	5.807	164	97118	27.0437579	ppb		96
56)	1,3-Dichloropropane	6.099	76	150128	22.0241193	ppb		100
57)	2-HEXANONE	6.306	58	174669	114.2937314	ppb		84
58)	CHLORODIBROMOMETHANE	6.044	129	100980	24.1758810	ppb		99
59)	1,2-DIBROMOETHANE	6.221	107	94227	24.1918429	ppb		100
60)	CHLOROBENZENE	6.555	112	319237	25.7808746	ppb		93
61)	1,1,1,2-TETRACHLOROETHANE	6.592	133	99513	24.7278046	ppb		100
62)	ETHYLBENZENE	6.549	106	179028	25.4497993	ppb		91
63)	M&P-XYLENE	6.646	106	424249	49.0138732	ppb		93
64)	O-XYLENE	6.957	106	210196	24.9809306	ppb		92
65)	STYRENE	6.993	104	344446	25.3334682	ppb		92
66)	Bromoform	7.036	173	60449	24.4131020	ppb		99
67)	Isopropylbenzene	7.170	105	538889	24.2746512	ppb		97
69)	Bromobenzene	7.486	77	205963	21.9646929	ppb		87
70)	1,1,2,2-TETRACHLOROETHANE	7.529	83	109334	22.3074337	ppb		98
71)	1,2,3-TRICHLOROPROPANE	7.644	110	29022	23.2957296	ppb		93
72)	TRANS-1,4-DICHLORO-2-B...	7.662	53	23287	19.0601233	ppb		95
73)	n-Propylbenzene	7.474	91	633526	24.2671230	ppb		96
74)	4-ETHYLTOLUENE	7.547	105	532949	24.1007138	ppb		97
75)	2-Chlorotoluene	7.614	126	123526	25.2780873	ppb	#	83
76)	4-Chlorotoluene	7.735	91	366227	23.0344299	ppb		94
77)	1,3,5-Trimethylbenzene	7.608	105	432320	23.9050529	ppb		96
78)	tert-Butylbenzene	7.857	119	375690	25.1623000	ppb		94
79)	1,2,4-Trimethylbenzene	7.912	105	433871	23.9606083	ppb		95
80)	sec-Butylbenzene	7.991	105	588327	24.5808489	ppb		97
81)	1,3-DICHLOROBENZENE	8.192	146	255572	26.4743886	ppb		100
82)	p-Isopropyltoluene	8.094	119	492013	25.1440501	ppb		95
83)	DICYCLOPENTADIENE	8.106	66	448583	21.7676847	ppb		95
85)	1,4-DICHLOROBENZENE	8.259	146	244394	22.3831111	ppb		88
86)	1,2,3-TRIMETHYLBENZENE	8.252	105	417408	21.2160260	ppb		95
87)	1,2-DICHLOROBENZENE	8.593	146	236251	22.4687154	ppb		98
88)	n-Butylbenzene	8.423	91	459675	20.2485367	ppb		98
89)	1,2-Dibromo-3-chloropr...	9.232	157	22089	20.6193766	ppb	#	86
90)	1,2,4-Trichlorobenzene	9.779	180	165184	24.8133322	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.737	225	75622	21.5136391	ppb		99
92)	Naphthalene	10.053	128	330896	21.5815688	ppb		100
93)	1,2,3-Trichlorobenzene	10.211	180	137401	23.0612315	ppb		99
94)	1-Methylnaphthalene	10.923	142	123249	21.3400995	ppb		98
95)	2-Methylnaphthalene	11.057	142	101602	20.3070352	ppb		96
97)	ETHANOL	2.704	45	827	13.7548747	ppb	#	39
100)	Methyl Acetate	3.240	43	135565	46.6808683	ppb	#	68

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 04.D
Acq On : 19 Oct 2015 5:32 am
Operator : 189
Sample : LCS 1x WG822564
Misc : water 15G07402/SPK15J19851
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 19 06:42:19 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
101) ACETONITRILE	3.453	41	41843	87.0365227	ppb	#	40
104) chloroprene	3.592	53	138972	17.6464459	ppb	#	21
106) PROPIONITRILE	4.286	54	1381	2.5262252	ppb	#	1
108) METHACRYLONITRILE	4.353	67	1084	0.6282614	ppb	#	1
110) tert-butyl formate	4.213	59	639	0.4875050	ppb	#	16
112) t-Amyl Alcohol	4.481	59	571	1.5485357	ppb	#	19
113) TERT-AMYL METHYL ETHER	4.359	73	7390	0.4792713	ppb	#	28
116) Methyl Cyclohexane	4.681	83	9885	Below Cal		#	48
117) 2-nitropropane	5.764	43	303554	282.4457436	ppb	#	38
119) 1,4-DIOXANE	5.138	88	1439	25.8442597	ppb	#	21
120) n-octane	5.399	85	2523	0.4889176	ppb	#	25
121) 3,3-DIMETHYL-1-BUTANOL	6.306	57	56430	130.1346603	ppb	#	45
123) ETHYL METHACRYLATE	5.764	69	2616	0.6023079	ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.437	53	898	0.8124862	ppb	#	27
125) Cyclohexanone	7.662	55	530	0.8154435	ppb	#	1
126) PENTACHLOROETHANE	7.912	117	15432	6.4578898	ppb	#	11

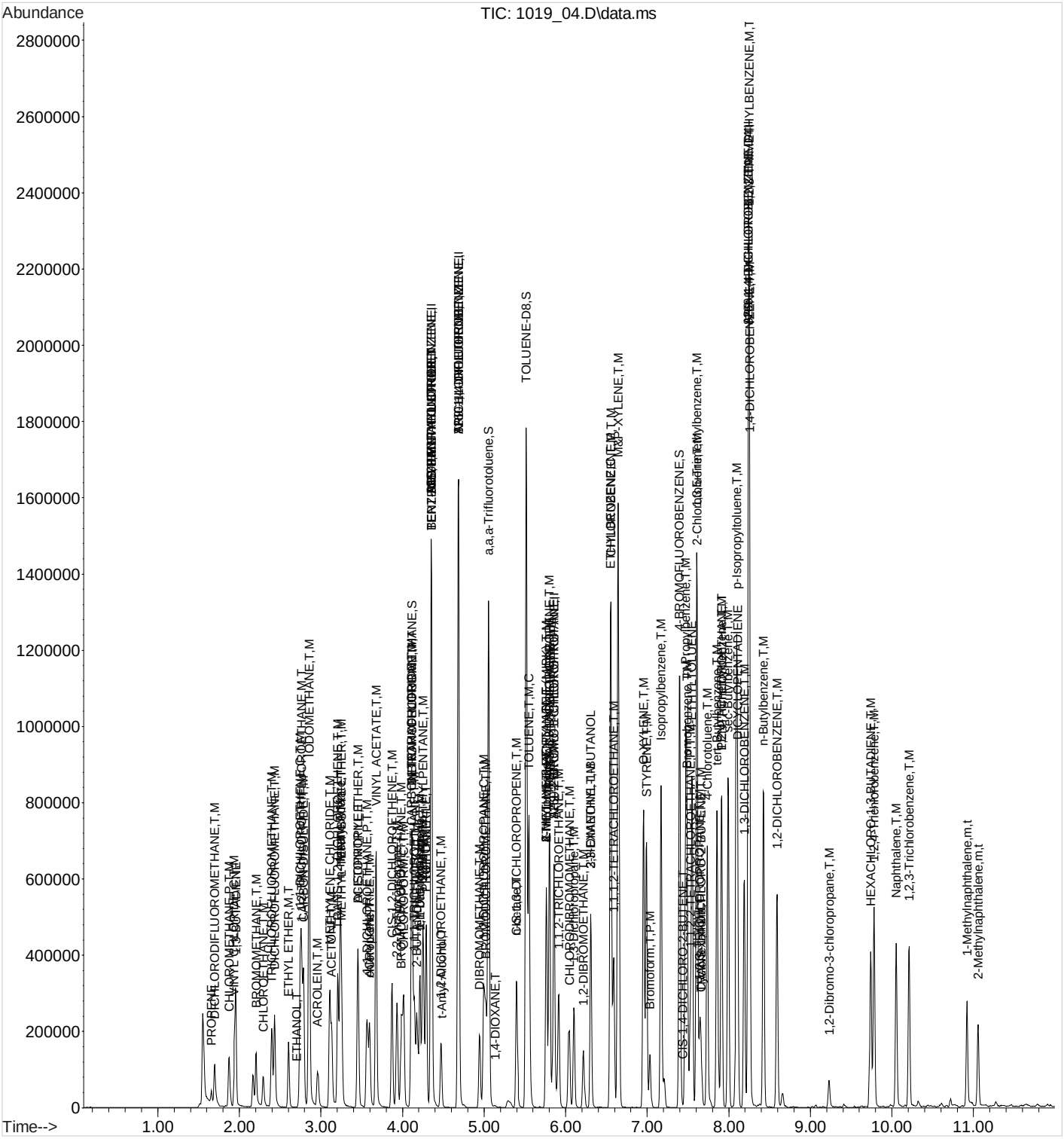
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 04.D
Acq On : 19 Oct 2015 5:32 am
Operator : 189
Sample : LCS 1x WG822564
Misc : water 15G07402/SPK15J19851
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 19 06:42:19 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 05.D
Acq On : 19 Oct 2015 5:54 am
Operator : 189
Sample : LCSD 1x WG822564
Misc : water 15G07402/SPK15J19851
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 19 06:43:07 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.353	168	563880	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.687	114	914073	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.855	79	126933	40.0000000	ppb	#	0.00
84) 8260-1,4-DICHLOROBENZE...	8.240	152	404635	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	563880	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.687	114	914073	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.855	79	126933	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.240	152	404635	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.115	111	257638	37.3520064	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 93.38%				
46) a,a,a-Trifluorotoluene	5.052	146	527256	44.4774480	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 111.19%				
50) TOLUENE-D8	5.515	98	1049568	40.8708968	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.18%				
68) 4-BROMOFLUOROBENZENE	7.394	95	369272	41.8874135	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.72%				
Target Compounds							Qvalue
3) PROPENE	1.658	41	12751	8.2525151	ppb		96
4) DICHLORODIFLUOROMETHANE	1.700	85	103965	19.5009391	ppb		100
5) CHLOROMETHANE	1.877	50	123005	19.0227504	ppb		98
6) VINYL CHLORIDE	1.938	62	123517	19.2294271	ppb		99
7) 1,3-BUTADIENE	1.950	39	68962	14.3830431	ppb		87
8) BROMOMETHANE	2.205	94	71869	26.4977684	ppb		97
9) CHLOROETHANE	2.290	64	59018	18.6411194	ppb		98
10) TRICHLOROFLUOROMETHANE	2.394	101	150973	20.7729162	ppb		97
11) DICHLOROFLUOROMETHANE	2.430	67	193939	20.0684097	ppb		98
12) ETHYL ETHER	2.601	59	78768	20.0224313	ppb		94
13) ACROLEIN	2.960	56	72398	94.3656084	ppb		99
14) 1,1-DICHLOROETHENE	2.747	61	150346	20.3567346	ppb		88
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	113662	23.2786634	ppb		94
16) ACETONE	3.130	43	214894	107.0743502	ppb		89
17) IODOMETHANE	2.856	142	825754	128.7131597	ppb		94
18) CARBON DISULFIDE	2.783	76	359894	19.5928138	ppb	#	95
19) METHYLENE CHLORIDE	3.112	84	122598	21.7632283	ppb		91
20) ACRYLONITRILE	3.592	53	146022	98.6074801	ppb		99
21) n-Hexane	3.233	56	91652	18.3695215	ppb		89
22) TRANS-1,2-DICHLOROETHENE	3.209	96	120790	22.3826214	ppb		90
23) METHYL TERT-BUTYL ETHER	3.252	73	262984	20.0545911	ppb		98
24) 1,1-DICHLOROETHANE	3.568	63	188393	20.7287247	ppb		100
25) VINYL ACETATE	3.677	43	775406	95.6427041	ppb	#	94
26) DI-ISOPROPYL ETHER	3.452	45	300243	18.6904270	ppb		97
27) 2,2-Dichloropropane	3.933	77	159329	19.2306423	ppb		97
28) CIS-1,2-DICHLOROETHENE	3.872	96	126814	22.2929295	ppb		91
29) 2-BUTANONE (MEK)	4.176	43	232848	94.3663759	ppb		92
30) BROMOCHLOROMETHANE	3.988	130	73604	23.6633357	ppb		78
31) TETRAHYDROFURAN	4.115	42	21327	16.7294785	ppb		98
32) CHLOROFORM	4.012	83	179747	19.7910506	ppb		99
34) 1,1,1-TRICHLOROETHANE	4.146	97	146242	19.6190142	ppb		98
35) CARBON TETRACHLORIDE	4.109	117	148697	20.8398125	ppb		90
36) 1,1-Dichloropropene	4.213	75	143601	21.3681811	ppb		97

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 05.D
Acq On : 19 Oct 2015 5:54 am
Operator : 189
Sample : LCSD 1x WG822564
Misc : water 15G07402/SPK15J19851
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 19 06:43:07 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.249	41	94291	16.9860442	ppb		73
38)	HEPTANE	4.292	43	147135	17.5819991	ppb	#	81
39)	BENZENE	4.359	78	441401	21.0446566	ppb		94
40)	1,2-DICHLOROETHANE	4.474	62	110772	18.4310325	ppb	#	93
42)	TRICHLOROETHENE	4.687	130	126851	24.5536991	ppb		96
43)	1,2-DICHLOROPROPANE	4.998	62	78174	21.4921063	ppb		99
44)	DIBROMOMETHANE	4.943	93	63290	21.8383446	ppb		93
45)	BROMODICHLOROMETHANE	5.022	83	134329	19.4774983	ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.399	75	175916	21.6730253	ppb		100
49)	4-METHYL-2-PENTANONE (...	5.764	43	325160	83.9016911	ppb		92
51)	TOLUENE	5.551	91	484180	22.4180040	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	5.801	75	145925	21.1038975	ppb		97
54)	1,1,2-TRICHLOROETHANE	5.916	97	94207	24.6824631	ppb		98
55)	TETRACHLOROETHENE	5.807	164	99347	27.6716439	ppb		96
56)	1,3-Dichloropropane	6.099	76	153101	22.4661044	ppb		99
57)	2-HEXANONE	6.306	58	187465	122.6986168	ppb		83
58)	CHLORODIBROMOMETHANE	6.044	129	102844	24.6285473	ppb		99
59)	1,2-DIBROMOETHANE	6.220	107	97056	24.9246387	ppb		99
60)	CHLOROBENZENE	6.555	112	323963	26.1693377	ppb		94
61)	1,1,1,2-TETRACHLOROETHANE	6.591	133	100314	24.9333241	ppb		98
62)	ETHYLBENZENE	6.549	106	180215	25.6251981	ppb		91
63)	M&P-XYLENE	6.646	106	437307	50.5356106	ppb		92
64)	O-XYLENE	6.956	106	216785	25.7707043	ppb		89
65)	STYRENE	6.993	104	353800	26.0282054	ppb		90
66)	Bromoform	7.036	173	64102	25.8951433	ppb		100
67)	Isopropylbenzene	7.169	105	549260	24.7482529	ppb		97
69)	Bromobenzene	7.486	77	209899	22.3902627	ppb		86
70)	1,1,2,2-TETRACHLOROETHANE	7.528	83	114210	23.3083429	ppb		98
71)	1,2,3-TRICHLOROPROPANE	7.644	110	29511	23.6944045	ppb		97
72)	TRANS-1,4-DICHLORO-2-B...	7.662	53	24605	20.1441258	ppb		94
73)	n-Propylbenzene	7.474	91	647060	24.7919847	ppb		97
74)	4-ETHYLTOLUENE	7.553	105	533336	24.1244848	ppb		96
75)	2-Chlorotoluene	7.614	126	124558	25.4959002	ppb	#	82
76)	4-Chlorotoluene	7.735	91	379650	23.8848988	ppb		95
77)	1,3,5-Trimethylbenzene	7.607	105	433406	23.9713335	ppb		95
78)	tert-Butylbenzene	7.857	119	385650	25.8360984	ppb		94
79)	1,2,4-Trimethylbenzene	7.912	105	438196	24.2057486	ppb		95
80)	sec-Butylbenzene	7.991	105	606816	25.3599279	ppb		97
81)	1,3-DICHLOROBENZENE	8.191	146	261431	27.0883557	ppb		99
82)	p-Isopropyltoluene	8.094	119	501739	25.6477581	ppb		95
83)	DICYCLOPENTADIENE	8.106	66	456412	22.1533482	ppb		94
85)	1,4-DICHLOROBENZENE	8.258	146	251124	23.4040169	ppb		93
86)	1,2,3-TRIMETHYLBENZENE	8.252	105	424844	22.0034867	ppb		95
87)	1,2-DICHLOROBENZENE	8.593	146	244114	23.6248765	ppb		98
88)	n-Butylbenzene	8.423	91	468098	20.9822383	ppb		98
89)	1,2-Dibromo-3-chloropr...	9.232	157	23188	22.0259698	ppb		88
90)	1,2,4-Trichlorobenzene	9.779	180	170489	26.0606802	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.737	225	80442	23.2873919	ppb		99
92)	Naphthalene	10.053	128	355927	23.6224371	ppb		99
93)	1,2,3-Trichlorobenzene	10.211	180	145639	24.8738242	ppb		98
94)	1-Methylnaphthalene	10.923	142	137603	24.2444988	ppb		98
95)	2-Methylnaphthalene	11.057	142	116401	23.6740875	ppb		96
100)	Methyl Acetate	3.239	43	135255	46.9107824	ppb	#	69
101)	ACETONITRILE	3.452	41	43578	91.3006801	ppb	#	40

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 05.D
Acq On : 19 Oct 2015 5:54 am
Operator : 189
Sample : LCSD 1x WG822564
Misc : water 15G07402/SPK15J19851
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 19 06:43:07 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
103) tert-BUTYL ALCOHOL	3.252	59	533	0.6140982	ppb	#	1
104) chloroprene	3.592	53	146022	18.6756719	ppb	#	21
106) PROPIONITRILE	4.292	54	1470	2.7084681	ppb	#	1
108) METHACRYLONITRILE	4.353	67	1089	0.6357217	ppb	#	1
113) TERT-AMYL METHYL ETHER	4.353	73	7668	0.5008954	ppb	#	38
117) 2-nitropropane	5.764	43	325160	302.6893345	ppb	#	38
118) METHYL METHACRYLATE	4.998	41	45328	12.2880271	ppb	#	13
119) 1,4-DIOXANE	5.131	88	1036	18.6150406	ppb	#	59
120) n-octane	5.399	85	2292	0.4443590	ppb	#	26
121) 3,3-DIMETHYL-1-BUTANOL	6.306	57	60375	139.2967569	ppb	#	44
123) ETHYL METHACRYLATE	5.764	69	2922	0.6729362	ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.425	53	918	0.8307976	ppb	#	7
125) Cyclohexanone	7.601	55	535	0.8233504	ppb	#	1
126) PENTACHLOROETHANE	7.912	117	16169	6.7680642	ppb	#	15

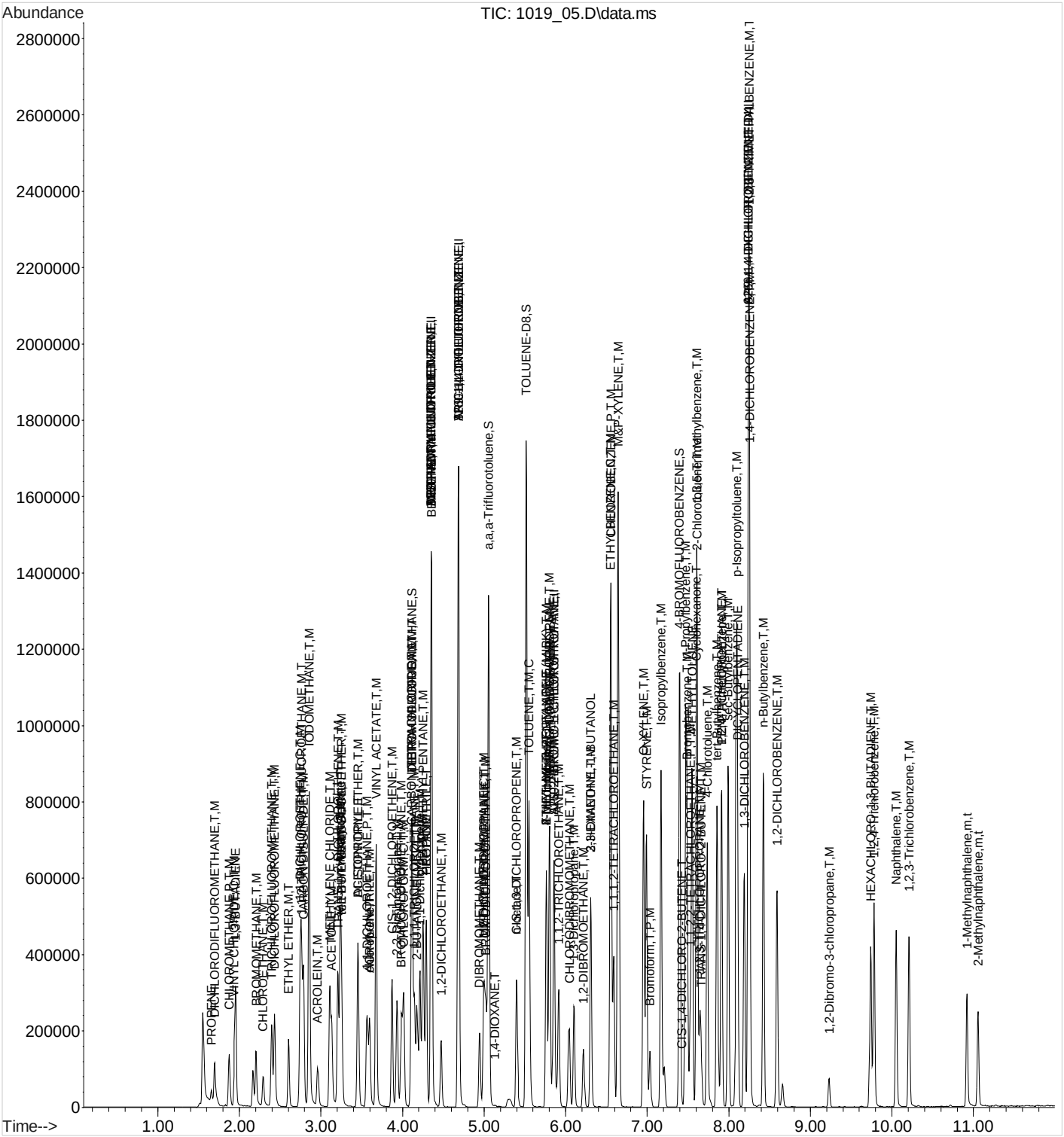
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 05.D
Acq On : 19 Oct 2015 5:54 am
Operator : 189
Sample : LCSD 1x WG822564
Misc : water 15G07402/SPK15J19851
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 19 06:43:07 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 10.D
Acq On : 19 Oct 2015 7:47 am
Operator : 189
Sample : BLANK 1x WG822564
Misc : water 15G07402
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 19 12:07:25 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards								
1)	8260-PENTAFLUOROBENZENE	4.353	168	624306	40.0000000	ppb		0.00
41)	8260-1,4-DIFLUOROBENZENE	4.687	114	976991	40.0000000	ppb		0.00
53)	8260-2-BROMO-1-CHLOROP...	5.855	79	134923	40.0000000	ppb	#	0.00
84)	8260-1,4-DICHLOROBENZE...	8.240	152	440852	40.0000000	ppb		0.00
96)	AP9-PENTAFLUOROBENZENE	4.353	168	624306	40.0000000	ppb		0.00
114)	AP9-1,4-DIFLUOROBENZENE	4.687	114	976991	40.0000000	ppb		0.00
122)	AP9-2-BROMO-1-CHLOROPR...	5.855	79	134923	40.0000000	ppb	#	0.00
128)	AP9-1,4-DICHLOROBENZEN...	8.240	152	440852	40.0000000	ppb		0.00
System Monitoring Compounds								
33)	DIBROMOFLUOROMETHANE	4.115	111	277944	36.3957357	ppb		0.00
	Spiked Amount 40.000	Range 79 - 121			Recovery = 90.99%			
46)	a,a,a-Trifluorotoluene	5.052	146	564286	44.5356631	ppb		0.00
	Spiked Amount 40.000	Range 90 - 116			Recovery = 111.34%			
50)	TOLUENE-D8	5.515	98	1112292	40.5240383	ppb		0.00
	Spiked Amount 40.000	Range 90 - 115			Recovery = 101.31%			
68)	4-BROMOFLUOROBENZENE	7.394	95	389840	41.6017997	ppb		0.00
	Spiked Amount 40.000	Range 80 - 120			Recovery = 104.00%			
Target Compounds								Qvalue
2)	TPH (GC/MS) LOW FRACTION	4.570	TIC -4525177m		Below Cal			
16)	ACETONE	3.136	43	4311	1.9401190	ppb		93
17)	IODOMETHANE	2.856	142	4574	0.6439581	ppb	#	96
19)	METHYLENE CHLORIDE	3.106	84	7181	1.1513677	ppb		98
86)	1,2,3-TRIMETHYLBENZENE	8.277	105	1492	Below Cal		#	34
116)	Methyl Cyclohexane	4.687	83	9024	Below Cal		#	37

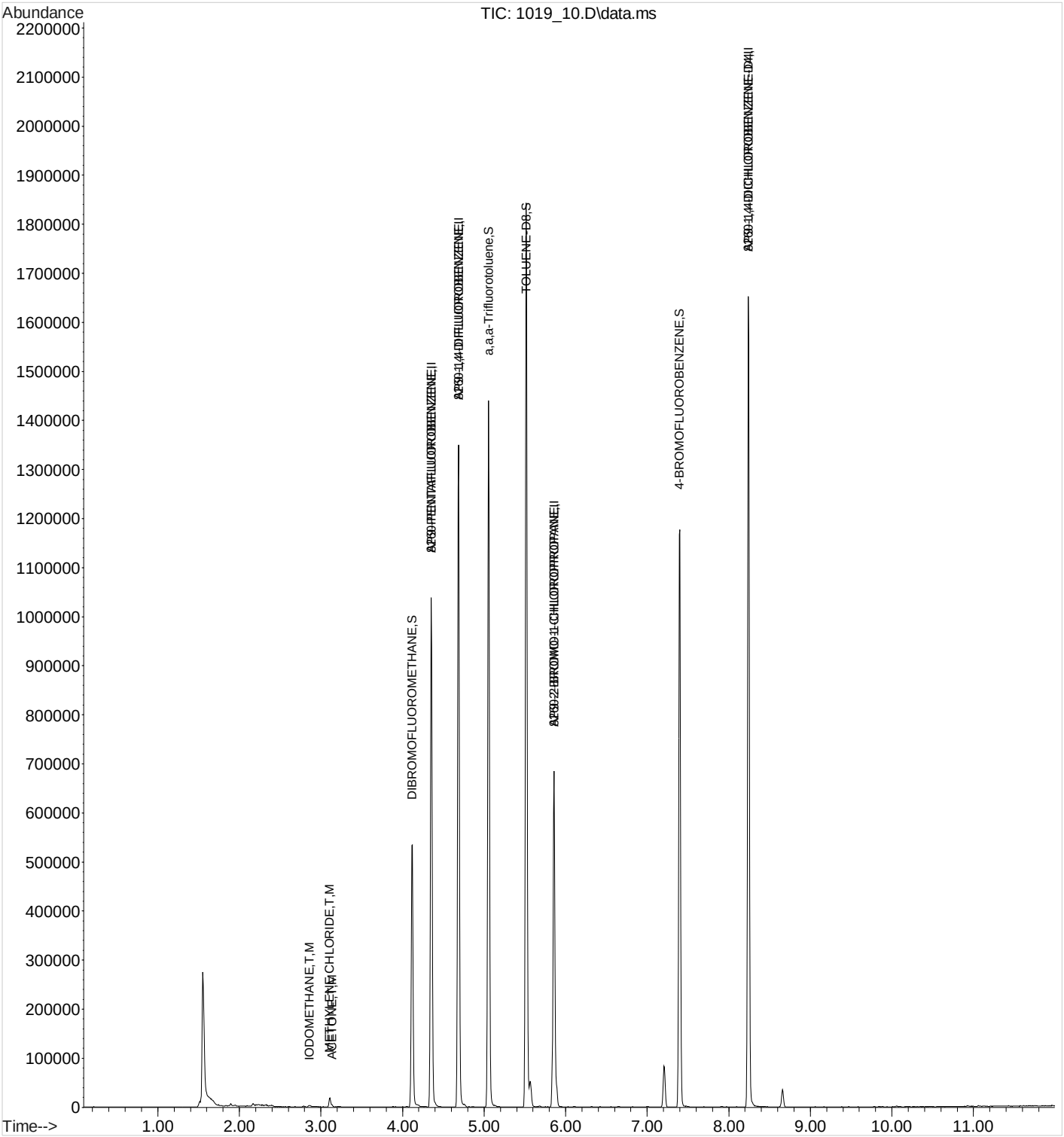
(#) = qualifier out of range (m) = manual integration (+) = signals summed

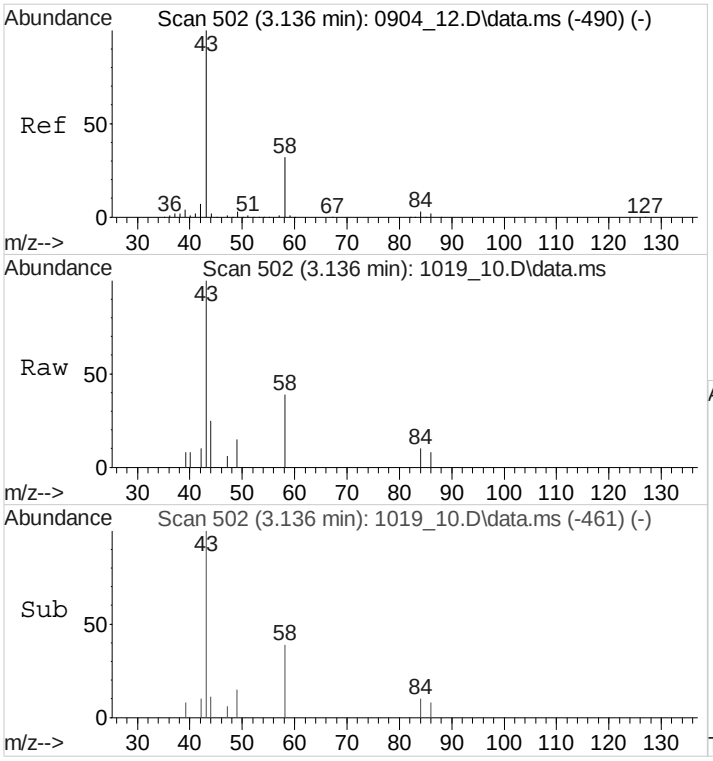
Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 10.D
Acq On : 19 Oct 2015 7:47 am
Operator : 189
Sample : BLANK 1x WG822564
Misc : water 15G07402
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Oct 19 12:07:25 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

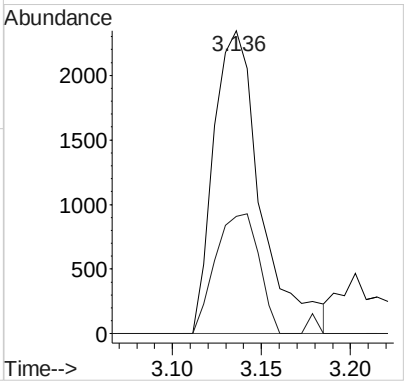


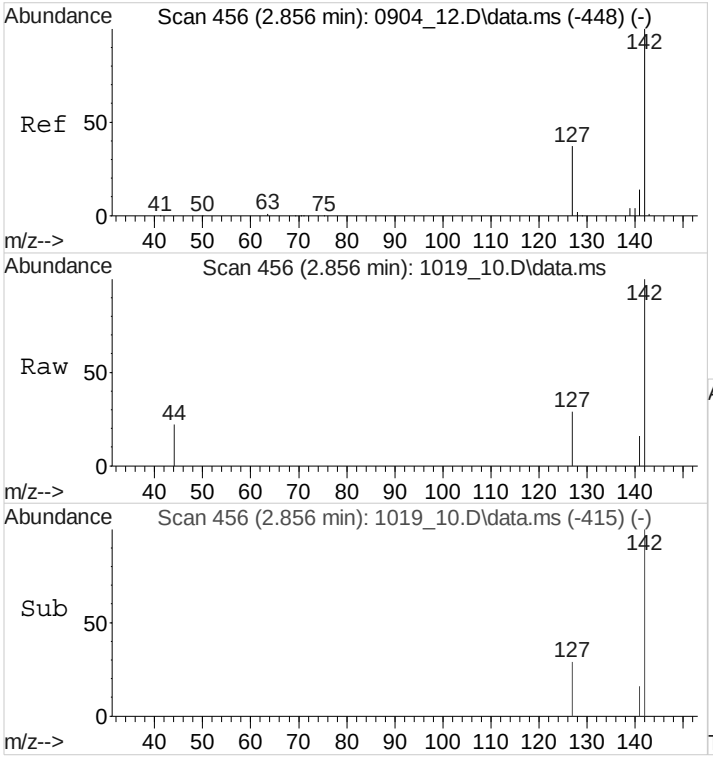


#16
ACETONE
Concen: 1.9401190 ppb
RT: 3.136 min Scan# 502
Delta R.T. -0.000 min
Lab File: 1019 10.D
Acq: 19 Oct 2015 7:47 am

Tgt Ion: 43 Resp: 4311

Ion	Ratio	Lower	Upper
43	100		
58	36.5	25.9	38.9

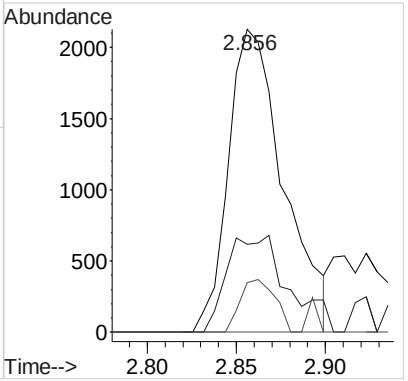


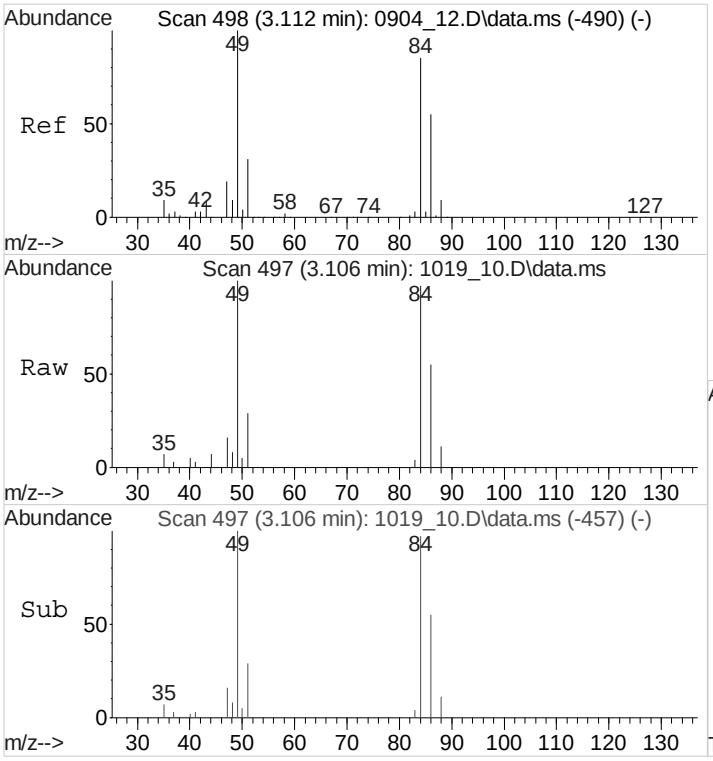


#17
IODOMETHANE
Concen: 0.6439581 ppb
RT: 2.856 min Scan# 456
Delta R.T. -0.001 min
Lab File: 1019_10.D
Acq: 19 Oct 2015 7:47 am

Tgt Ion:142 Resp: 4574

Ion	Ratio	Lower	Upper
142	100		
127	35.0	29.5	44.3
141	11.0	11.1	16.7#

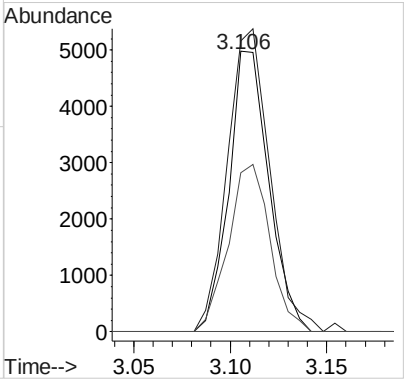


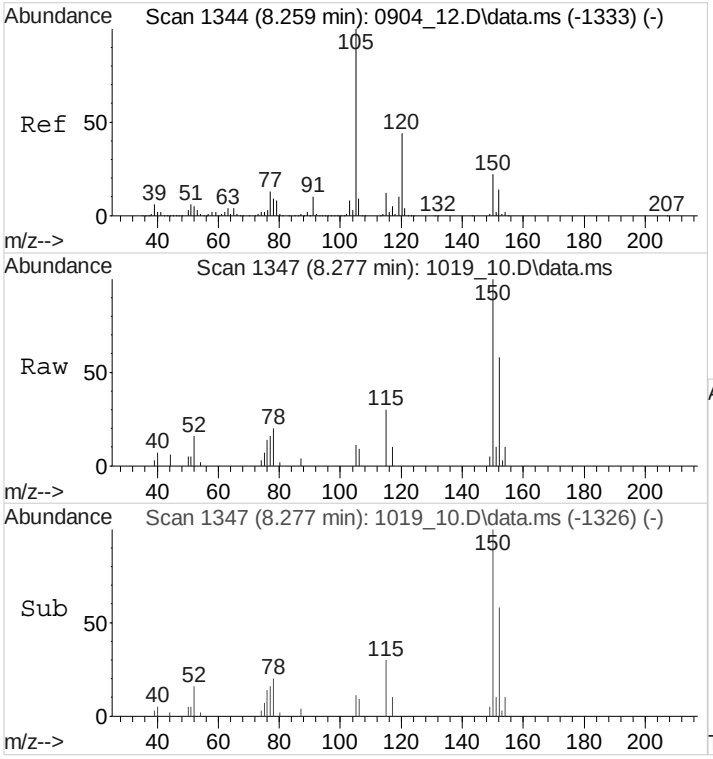


#19
METHYLENE CHLORIDE
Concen: 1.1513677 ppb
RT: 3.106 min Scan# 497
Delta R.T. -0.006 min
Lab File: 1019 10.D
Acq: 19 Oct 2015 7:47 am

Tgt Ion: 84 Resp: 7181

Ion	Ratio	Lower	Upper
84	100		
49	115.2	94.7	142.1
86	62.2	50.8	76.2

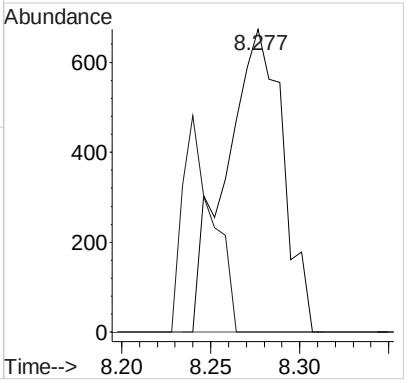




#86
1,2,3-TRIMETHYLBENZENE
Concen: Below Cal
RT: 8.277 min Scan# 1347
Delta R.T. 0.019 min
Lab File: 1019_10.D
Acq: 19 Oct 2015 7:47 am

Tgt Ion:105 Resp: 1492

Ion	Ratio	Lower	Upper
105	100		
120	0.0	33.7	50.5#



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 14.D
Acq On : 19 Oct 2015 9:18 am
Operator : 189
Sample : MS 1x WG822564 L794713-01
Misc : water 15G07402/SPK15J19851
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 19 12:08:25 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.353	168	472798	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.687	114	763706	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.855	79	110493	40.0000000	ppb	#	0.00
84) 8260-1,4-DICHLOROBENZE...	8.240	152	344895	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	472798	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.687	114	763706	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.855	79	110493	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.240	152	344895	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.115	111	217866	37.6707734	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 94.18%				
46) a,a,a-Trifluorotoluene	5.052	146	433060	43.7241202	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 109.31%				
50) TOLUENE-D8	5.515	98	880154	41.0220096	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.56%				
68) 4-BROMOFLUOROBENZENE	7.401	95	318703	41.5301114	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.83%				
Target Compounds							Qvalue
3) PROPENE	1.658	41	8271	6.1284868	ppb		98
4) DICHLORODIFLUOROMETHANE	1.700	85	67837	15.1756067	ppb		99
5) CHLOROMETHANE	1.877	50	82714	15.2559981	ppb		99
6) VINYL CHLORIDE	1.938	62	81921	15.2105849	ppb		99
7) 1,3-BUTADIENE	1.950	39	46301	11.5170795	ppb		90
8) BROMOMETHANE	2.199	94	48446	21.3027997	ppb		95
9) CHLOROETHANE	2.290	64	39382	14.8352999	ppb		99
10) TRICHLOROFLUOROMETHANE	2.394	101	100490	16.4904342	ppb		99
11) DICHLOROFLUOROMETHANE	2.430	67	134662	16.6189633	ppb		99
12) ETHYL ETHER	2.601	59	64591	19.5816851	ppb		96
13) ACROLEIN	2.960	56	57753	89.7785909	ppb		98
14) 1,1-DICHLOROETHENE	2.747	61	101474	16.3863443	ppb		89
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	74361	18.1634787	ppb	#	93
16) ACETONE	3.136	43	93887	55.7927387	ppb		91
17) IODOMETHANE	2.856	142	580199	107.8599716	ppb		94
18) CARBON DISULFIDE	2.783	76	237702	15.4335595	ppb	#	95
19) METHYLENE CHLORIDE	3.112	84	87332	18.4894673	ppb		90
20) ACRYLONITRILE	3.592	53	140595	113.2328672	ppb		98
21) n-Hexane	3.233	56	65020	15.5422512	ppb		95
22) TRANS-1,2-DICHLOROETHENE	3.203	96	81936	18.1078041	ppb		91
23) METHYL TERT-BUTYL ETHER	3.252	73	241365	21.9517850	ppb	#	81
24) 1,1-DICHLOROETHANE	3.562	63	130926	17.1808554	ppb		100
25) VINYL ACETATE	3.677	43	700394	103.0329576	ppb	#	94
26) DI-ISOPROPYL ETHER	3.452	45	228483	16.9633368	ppb		97
27) 2,2-Dichloropropane	3.933	77	106907	15.3892042	ppb		96
28) CIS-1,2-DICHLOROETHENE	3.872	96	91716	19.2289738	ppb		91
29) 2-BUTANONE (MEK)	4.176	43	151451	73.2028467	ppb		89
30) BROMOCHLOROMETHANE	3.988	130	57583	22.0790253	ppb		77
31) TETRAHYDROFURAN	4.115	42	21124	19.7624077	ppb		97
32) CHLOROFORM	4.012	83	131186	17.2268451	ppb		99
34) 1,1,1-TRICHLOROETHANE	4.146	97	101472	16.2353757	ppb		97
35) CARBON TETRACHLORIDE	4.109	117	101233	16.9209510	ppb		88
36) 1,1-Dichloropropene	4.213	75	94365	16.7468101	ppb		96

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 14.D
Acq On : 19 Oct 2015 9:18 am
Operator : 189
Sample : MS 1x WG822564 L794713-01
Misc : water 15G07402/SPK15J19851
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 19 12:08:25 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.249	41	57002	12.2468151	ppb	#	54
38)	HEPTANE	4.292	43	99359	14.1602374	ppb	#	81
39)	BENZENE	4.359	78	316283	17.9843787	ppb		93
40)	1,2-DICHLOROETHANE	4.474	62	86999	17.2641416	ppb	#	94
42)	TRICHLOROETHENE	4.687	130	85611	19.8338618	ppb		96
43)	1,2-DICHLOROPROPANE	4.998	62	57013	18.7605350	ppb		99
44)	DIBROMOMETHANE	4.943	93	50485	20.8497887	ppb		93
45)	BROMODICHLOROMETHANE	5.022	83	101189	17.5610862	ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.399	75	134466	19.8281119	ppb		100
49)	4-METHYL-2-PENTANONE (...	5.764	43	312073	96.3794567	ppb		93
51)	TOLUENE	5.551	91	343853	19.0553790	ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.801	75	113287	19.6095543	ppb		95
54)	1,1,2-TRICHLOROETHANE	5.916	97	76724	23.0927864	ppb		97
55)	TETRACHLOROETHENE	5.807	164	66608	21.3130879	ppb		96
56)	1,3-Dichloropropane	6.105	76	125446	21.1468820	ppb		99
57)	2-HEXANONE	6.306	58	151537	113.9404513	ppb		84
58)	CHLORODIBROMOMETHANE	6.044	129	83805	23.0552346	ppb		99
59)	1,2-DIBROMOETHANE	6.220	107	81192	23.9529772	ppb		97
60)	CHLOROBENZENE	6.555	112	240038	22.2749684	ppb		93
61)	1,1,1,2-TETRACHLOROETHANE	6.591	133	77764	22.2042959	ppb	#	99
62)	ETHYLBENZENE	6.549	106	126489	20.6618324	ppb		93
63)	M&P-XYLENE	6.646	106	305945	40.6157267	ppb		94
64)	O-XYLENE	6.956	106	152611	20.8411978	ppb		93
65)	STYRENE	6.993	104	263929	22.3055680	ppb		90
66)	Bromoform	7.036	173	58008	26.9199599	ppb		99
67)	Isopropylbenzene	7.169	105	384403	19.8972529	ppb		96
69)	Bromobenzene	7.486	77	161676	19.8122662	ppb	#	86
70)	1,1,2,2-TETRACHLOROETHANE	7.528	83	117894	27.6400452	ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.644	110	28953	26.7051623	ppb		97
72)	TRANS-1,4-DICHLORO-2-B...	7.662	53	23996	22.5685516	ppb		95
73)	n-Propylbenzene	7.474	91	453041	19.9408666	ppb		96
74)	4-ETHYLTOLUENE	7.547	105	377971	19.6406296	ppb		97
75)	2-Chlorotoluene	7.614	126	91697	21.5622278	ppb	#	85
76)	4-Chlorotoluene	7.735	91	279160	20.1759025	ppb		95
77)	1,3,5-Trimethylbenzene	7.607	105	320272	20.3496070	ppb		96
78)	tert-Butylbenzene	7.857	119	273713	21.0653558	ppb		94
79)	1,2,4-Trimethylbenzene	7.912	105	321198	20.3827474	ppb		95
80)	sec-Butylbenzene	7.991	105	429905	20.6396946	ppb		98
81)	1,3-DICHLOROBENZENE	8.191	146	199909	23.7956562	ppb		100
82)	p-Isopropyltoluene	8.094	119	365042	21.4365141	ppb		95
83)	DICYCLOPENTADIENE	8.100	66	327179	18.2434731	ppb	#	93
85)	1,4-DICHLOROBENZENE	8.258	146	194843	21.3041170	ppb		80
86)	1,2,3-TRIMETHYLBENZENE	8.252	105	325895	19.7191615	ppb		94
87)	1,2-DICHLOROBENZENE	8.593	146	199619	22.6649770	ppb		98
88)	n-Butylbenzene	8.423	91	335104	17.6226489	ppb		98
89)	1,2-Dibromo-3-chloropr...	9.232	157	26343	29.3571253	ppb	#	87
90)	1,2,4-Trichlorobenzene	9.779	180	147073	26.3753895	ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.737	225	60888	20.6797959	ppb		100
92)	Naphthalene	10.053	128	373114	29.0523895	ppb		100
93)	1,2,3-Trichlorobenzene	10.211	180	137842	27.6199562	ppb		100
94)	1-Methylnaphthalene	10.923	142	151728	31.3637215	ppb		97
95)	2-Methylnaphthalene	11.057	142	130242	31.0773616	ppb		94
97)	ETHANOL	2.704	45	804	16.0637242	ppb	#	39
100)	Methyl Acetate	3.191	43	7920	3.2760882	ppb	#	93

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 14.D
Acq On : 19 Oct 2015 9:18 am
Operator : 189
Sample : MS 1x WG822564 L794713-01
Misc : water 15G07402/SPK15J19851
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 19 12:08:25 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
101) ACETONITRILE	3.452	41	34010	84.9815035	ppb	#	40
103) tert-BUTYL ALCOHOL	3.282	59	1170	1.6077093	ppb	#	64
104) chloroprene	3.592	53	140595	21.4456335	ppb	#	21
106) PROPIONITRILE	4.292	54	693	1.5228274	ppb	#	1
108) METHACRYLONITRILE	4.359	67	957	0.6662882	ppb	#	1
113) TERT-AMYL METHYL ETHER	4.359	73	7434	0.5791600	ppb	#	46
115) N-BUTANOL	4.815	56	2081	28.2317437	ppb	#	90
117) 2-nitropropane	5.764	43	312073	347.7049536	ppb	#	37
118) METHYL METHACRYLATE	4.998	41	33430	10.8469256	ppb	#	13
119) 1,4-DIOXANE	5.150	88	887	19.0757899	ppb	#	69
120) n-octane	5.405	85	2090	0.4849761	ppb	#	11
121) 3,3-DIMETHYL-1-BUTANOL	6.306	57	48319	133.4309191	ppb	#	43
123) ETHYL METHACRYLATE	5.770	69	2522	0.6672346	ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.431	53	979	1.0178295	ppb	#	7
125) Cyclohexanone	7.857	55	2016	3.5641930	ppb	#	64
126) PENTACHLOROETHANE	7.906	117	11947	5.7448666	ppb	#	17

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

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 14.D
Acq On : 19 Oct 2015 9:18 am
Operator : 189
Sample : MS 1x WG822564 L794713-01
Misc : water 15G07402/SPK15J19851
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 19 12:08:25 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
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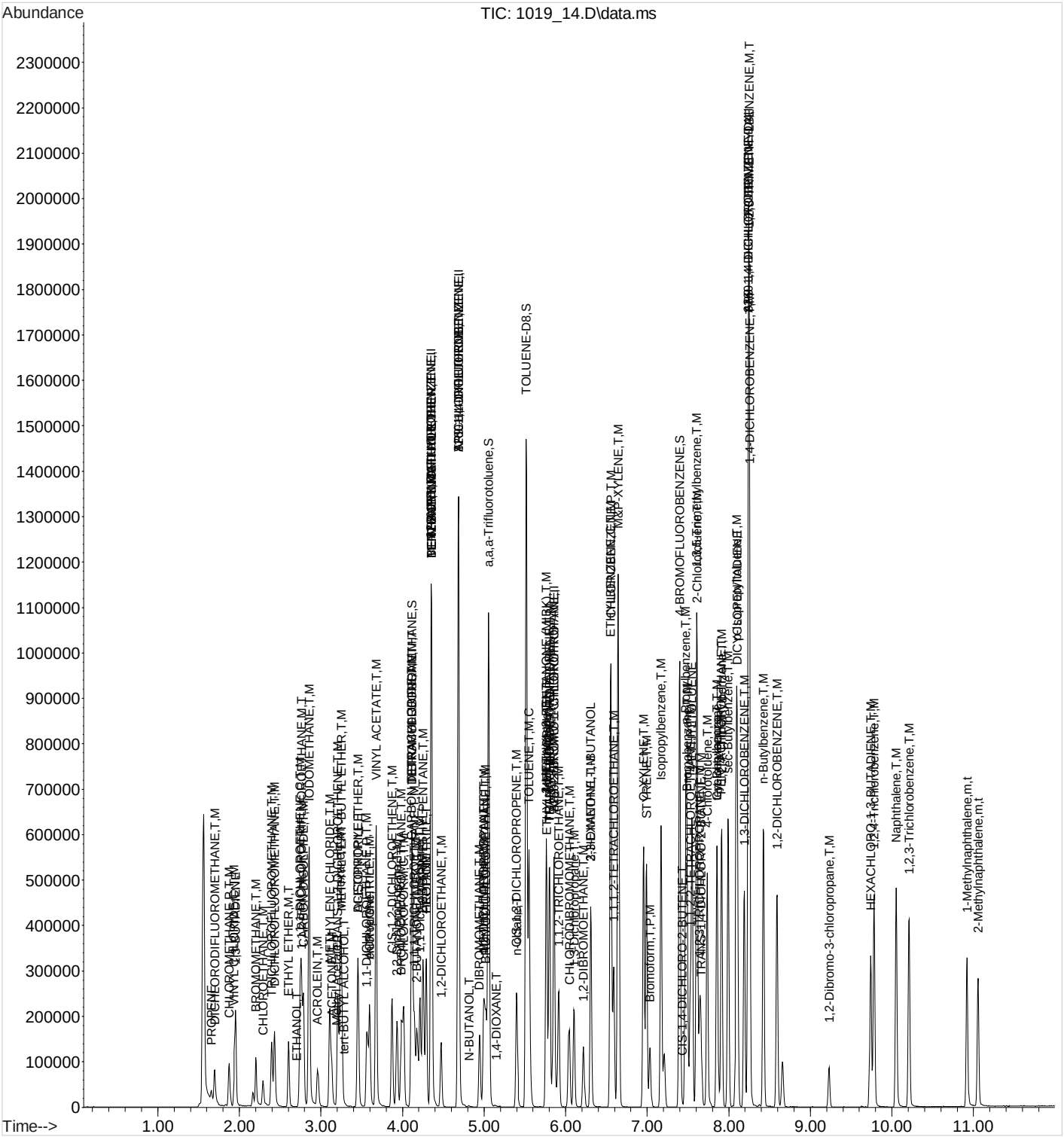


Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 15.D
Acq On : 19 Oct 2015 9:40 am
Operator : 189
Sample : MSD 1x WG822564 L794713-01
Misc : water 15G07402/SPK15J19851
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 19 12:08:42 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.353	168	566447	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	908760	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.856	79	127560	40.0000000	ppb	#	0.00
84) 8260-1,4-DICHLOROBENZE...	8.240	152	410449	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	566447	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	908760	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.856	79	127560	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.240	152	410449	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.116	111	254476	36.7263912	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 91.82%				
46) a,a,a-Trifluorotoluene	5.053	146	518216	43.9704415	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 109.93%				
50) TOLUENE-D8	5.515	98	1045156	40.9370348	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.34%				
68) 4-BROMOFLUOROBENZENE	7.395	95	368272	41.5686480	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.92%				
Target Compounds							Qvalue
3) PROPENE	1.658	41	12291	7.8730558	ppb		96
4) DICHLORODIFLUOROMETHANE	1.694	85	100929	18.8456772	ppb		99
5) CHLOROMETHANE	1.877	50	117761	18.1292333	ppb		99
6) VINYL CHLORIDE	1.938	62	117468	18.2048286	ppb		99
7) 1,3-BUTADIENE	1.950	39	67360	13.9852561	ppb		91
8) BROMOMETHANE	2.199	94	64220	23.5703162	ppb		96
9) CHLOROETHANE	2.291	64	56620	17.8026550	ppb		99
10) TRICHLOROFLUOROMETHANE	2.394	101	155905	21.3543147	ppb		98
11) DICHLOROFLUOROMETHANE	2.430	67	190771	19.6511320	ppb		98
12) ETHYL ETHER	2.601	59	79670	20.1599393	ppb		95
13) ACROLEIN	2.960	56	64769	84.0391744	ppb		99
14) 1,1-DICHLOROETHENE	2.747	61	145764	19.6468950	ppb		87
15) 1,1,2-TRICHLOROTRIFLUO...	2.759	101	109530	22.3307467	ppb	#	93
16) ACETONE	3.130	43	98919	49.0646025	ppb		89
17) IODOMETHANE	2.856	142	809750	125.6465685	ppb		94
18) CARBON DISULFIDE	2.783	76	348220	18.8713655	ppb	#	95
19) METHYLENE CHLORIDE	3.112	84	115311	20.3768984	ppb		90
20) ACRYLONITRILE	3.592	53	148030	99.5104562	ppb		99
21) n-Hexane	3.234	56	91537	18.2633307	ppb		91
22) TRANS-1,2-DICHLOROETHENE	3.203	96	115997	21.3970615	ppb		91
23) METHYL TERT-BUTYL ETHER	3.252	73	289285	21.9602768	ppb		90
24) 1,1-DICHLOROETHANE	3.568	63	182060	19.9411303	ppb		100
25) VINYL ACETATE	3.678	43	810254	99.4881335	ppb	#	95
26) DI-ISOPROPYL ETHER	3.453	45	298923	18.5239275	ppb		96
27) 2,2-Dichloropropane	3.933	77	151339	18.1834895	ppb		95
28) CIS-1,2-DICHLOROETHENE	3.872	96	124907	21.8581866	ppb		91
29) 2-BUTANONE (MEK)	4.176	43	164777	66.4765950	ppb	#	89
30) BROMOCHLOROMETHANE	3.988	130	72943	23.3445539	ppb	#	76
31) TETRAHYDROFURAN	4.116	42	23163	18.0873462	ppb		97
32) CHLOROFORM	4.012	83	175806	19.2694048	ppb		100
34) 1,1,1-TRICHLOROETHANE	4.146	97	142991	19.0959460	ppb		97
35) CARBON TETRACHLORIDE	4.110	117	143691	20.0469625	ppb		97
36) 1,1-Dichloropropene	4.213	75	136630	20.2387446	ppb		97

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 15.D
Acq On : 19 Oct 2015 9:40 am
Operator : 189
Sample : MSD 1x WG822564 L794713-01
Misc : water 15G07402/SPK15J19851
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 19 12:08:42 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.249	41	84908	15.2264278	ppb	#	56
38)	HEPTANE	4.292	43	145413	17.2974827	ppb	#	81
39)	BENZENE	4.359	78	431441	20.4765768	ppb		94
40)	1,2-DICHLOROETHANE	4.475	62	110898	18.3683774	ppb	#	94
42)	TRICHLOROETHENE	4.681	130	122906	23.9291789	ppb		97
43)	1,2-DICHLOROPROPANE	4.998	62	75975	21.0096604	ppb		99
44)	DIBROMOMETHANE	4.943	93	63436	22.0166930	ppb		93
45)	BROMODICHLOROMETHANE	5.022	83	136135	19.8547703	ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.399	75	175843	21.7906889	ppb		99
49)	4-METHYL-2-PENTANONE (...	5.764	43	348826	90.5345038	ppb		92
51)	TOLUENE	5.551	91	475734	22.1557249	ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.801	75	144471	21.0157709	ppb		95
54)	1,1,2-TRICHLOROETHANE	5.916	97	95237	24.8296766	ppb		98
55)	TETRACHLOROETHENE	5.807	164	96224	26.6700385	ppb		96
56)	1,3-Dichloropropane	6.099	76	158002	23.0713158	ppb		99
57)	2-HEXANONE	6.306	58	169025	110.0855836	ppb		84
58)	CHLORODIBROMOMETHANE	6.044	129	108246	25.7947740	ppb		99
59)	1,2-DIBROMOETHANE	6.221	107	99201	25.3502687	ppb		99
60)	CHLOROBENZENE	6.555	112	327636	26.3359487	ppb		92
61)	1,1,1,2-TETRACHLOROETHANE	6.592	133	103338	25.5586976	ppb	#	98
62)	ETHYLBENZENE	6.549	106	177270	25.0825435	ppb		93
63)	M&P-XYLENE	6.646	106	429568	49.3972810	ppb		92
64)	O-XYLENE	6.957	106	209631	24.7977683	ppb		92
65)	STYRENE	6.993	104	360183	26.3675417	ppb		90
66)	Bromoform	7.036	173	72599	29.1835023	ppb		98
67)	Isopropylbenzene	7.170	105	550830	24.6969994	ppb		96
69)	Bromobenzene	7.486	77	221091	23.4682074	ppb		87
70)	1,1,2,2-TETRACHLOROETHANE	7.522	83	139576	28.3451036	ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.644	110	34276	27.3849555	ppb		98
72)	TRANS-1,4-DICHLORO-2-B...	7.662	53	28410	23.1449541	ppb		94
73)	n-Propylbenzene	7.474	91	649822	24.7754291	ppb		97
74)	4-ETHYLTOLUENE	7.547	105	542136	24.4020003	ppb		97
75)	2-Chlorotoluene	7.614	126	128621	26.1981509	ppb	#	83
76)	4-Chlorotoluene	7.735	91	393423	24.6297374	ppb		94
77)	1,3,5-Trimethylbenzene	7.608	105	450932	24.8180906	ppb		95
78)	tert-Butylbenzene	7.857	119	393754	26.2493532	ppb		94
79)	1,2,4-Trimethylbenzene	7.906	105	452017	24.8464824	ppb		95
80)	sec-Butylbenzene	7.991	105	622501	25.8875576	ppb		97
81)	1,3-DICHLOROBENZENE	8.192	146	280152	28.8854622	ppb		99
82)	p-Isopropyltoluene	8.094	119	518687	26.3837757	ppb		95
83)	DICYCLOPENTADIENE	8.100	66	459027	22.1707603	ppb		94
85)	1,4-DICHLOROBENZENE	8.252	146	271429	24.9380604	ppb		98
86)	1,2,3-TRIMETHYLBENZENE	8.252	105	446305	22.8171950	ppb		95
87)	1,2-DICHLOROBENZENE	8.593	146	271634	25.9158366	ppb		98
88)	n-Butylbenzene	8.423	91	484766	21.4215763	ppb		98
89)	1,2-Dibromo-3-chloropr...	9.232	157	30378	28.4469146	ppb	#	86
90)	1,2,4-Trichlorobenzene	9.779	180	197968	29.8324294	ppb		100
91)	HEXACHLORO-1,3-BUTADIENE	9.737	225	91212	26.0312015	ppb		98
92)	Naphthalene	10.053	128	444476	29.0814680	ppb		99
93)	1,2,3-Trichlorobenzene	10.211	180	179093	30.1541942	ppb		99
94)	1-Methylnaphthalene	10.923	142	180208	31.3013896	ppb		98
95)	2-Methylnaphthalene	11.057	142	157725	31.6243288	ppb		97
100)	Methyl Acetate	3.191	43	8497	2.9336775	ppb	#	91
101)	ACETONITRILE	3.453	41	44492	92.7931797	ppb	#	42

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 15.D
Acq On : 19 Oct 2015 9:40 am
Operator : 189
Sample : MSD 1x WG822564 L794713-01
Misc : water 15G07402/SPK15J19851
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 19 12:08:42 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
103) tert-BUTYL ALCOHOL	3.288	59	1344	1.5414778	ppb	#	64
104) chloroprene	3.592	53	148030	18.8466902	ppb	#	21
106) PROPIONITRILE	4.292	54	1296	2.3770527	ppb	#	1
108) METHACRYLONITRILE	4.353	67	1181	0.6863038	ppb	#	1
110) tert-butyl formate	4.207	59	549	0.4199581	ppb	#	16
112) t-Amyl Alcohol	4.475	59	599	1.6287984	ppb	#	19
113) TERT-AMYL METHYL ETHER	4.353	73	8947	0.5817948	ppb	#	50
115) N-BUTANOL	4.815	56	878	10.0100706	ppb	#	71
117) 2-nitropropane	5.764	43	348826	326.6183117	ppb	#	37
119) 1,4-DIOXANE	5.138	88	1096	19.8082662	ppb	#	53
120) n-octane	5.399	85	2449	0.4775731	ppb	#	29
121) 3,3-DIMETHYL-1-BUTANOL	6.306	57	55724	129.3176558	ppb	#	44
123) ETHYL METHACRYLATE	5.764	69	3226	0.7392956	ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.431	53	1028	0.9257756	ppb	#	28
125) Cyclohexanone	7.608	55	690	1.0566716	ppb	#	1
126) PENTACHLOROETHANE	7.912	117	16885	7.0330290	ppb	#	16

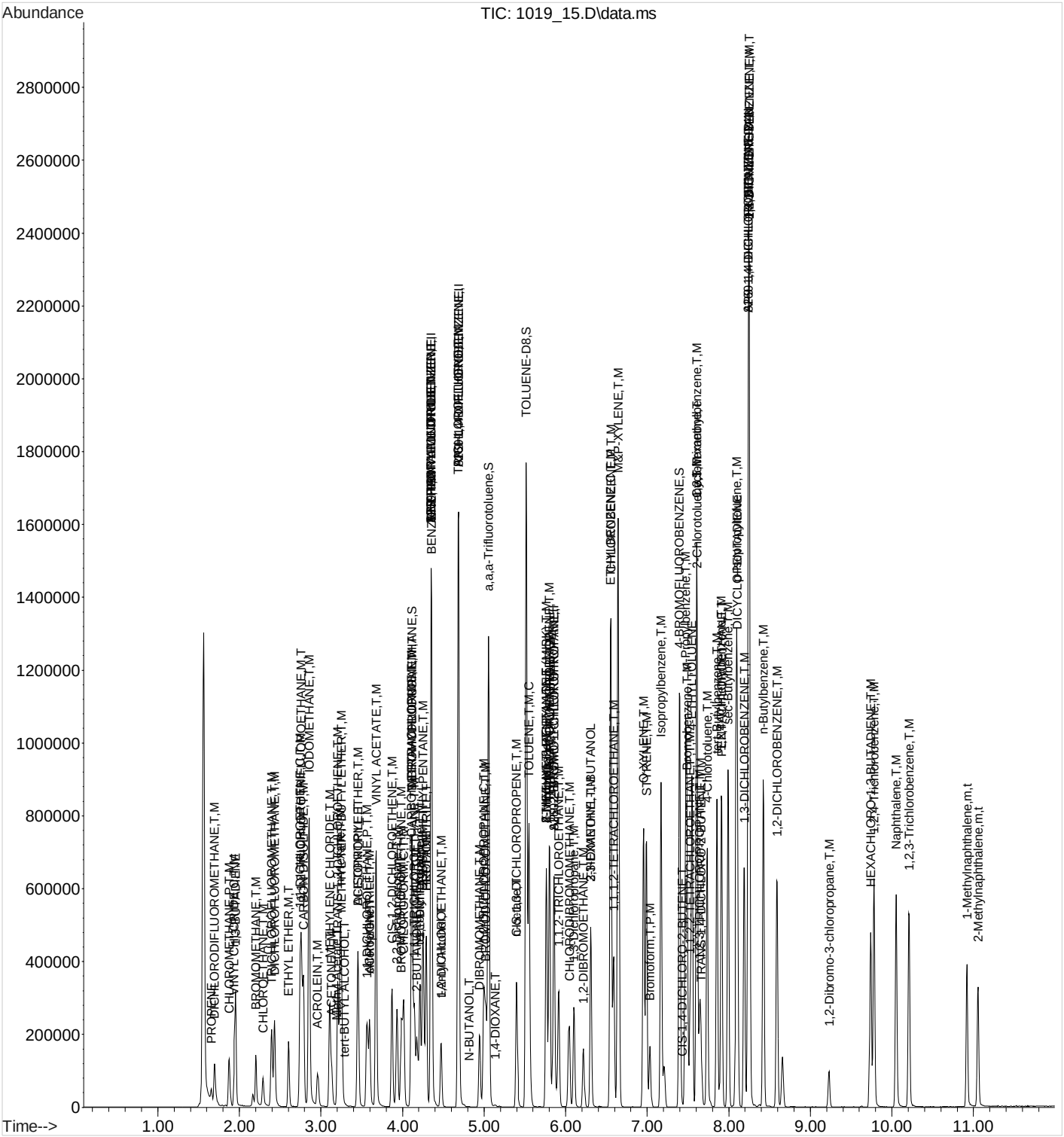
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 15.D
Acq On : 19 Oct 2015 9:40 am
Operator : 189
Sample : MSD 1x WG822564 L794713-01
Misc : water 15G07402/SPK15J19851
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Oct 19 12:08:42 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 30.D
Acq On : 19 Oct 2015 3:19 pm
Operator : 189
Sample : L793892-09 1x WG822564 V8260TCLC
Misc : water 15G07402
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 19 19:13:46 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.353	168	594977	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.687	114	927215	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.855	79	129426	40.0000000	ppb	#	0.00
84) 8260-1,4-DICHLOROBENZE...	8.246	152	427214	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.353	168	594977	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.687	114	927215	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.855	79	129426	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.246	152	427214	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.116	111	264567	36.3518236	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 90.88%				
46) a,a,a-Trifluorotoluene	5.052	146	530558	44.1216383	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 110.30%				
50) TOLUENE-D8	5.515	98	1055451	40.5174490	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 101.29%				
68) 4-BROMOFLUOROBENZENE	7.395	95	371953	41.3788338	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.45%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC -4221740m		Below Cal			
3) PROPENE	1.658	41	723	Below Cal	#	61	
16) ACETONE	3.136	43	6665	3.1473702	ppb		90
17) IODOMETHANE	2.856	142	4353	0.6430540	ppb		91
24) 1,1-DICHLOROETHANE	3.568	63	3533	0.3684156	ppb		98
28) CIS-1,2-DICHLOROETHENE	3.866	96	3196	0.5324676	ppb		96
29) 2-BUTANONE (MEK)	4.182	43	1729	0.6640890	ppb	#	45
42) TRICHLOROETHENE	4.681	130	43353	8.2726114	ppb		97
43) 1,2-DICHLOROPROPANE	5.052	62	6719	1.8210494	ppb	#	1
52) TRANS-1,3-DICHLOROPROPENE	5.855	75	5643	0.8045322	ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.283	105	1741	Below Cal	#	34	
100) Methyl Acetate	3.136	43	6665	2.1908166	ppb	#	51
108) METHACRYLONITRILE	4.353	67	1257	0.6954420	ppb	#	1
111) ISOBUTANOL	4.347	43	566	2.3773740	ppb	#	1
116) Methyl Cyclohexane	4.681	83	9038	Below Cal	#	40	
119) 1,4-DIOXANE	5.138	88	1213	21.4864895	ppb	#	80

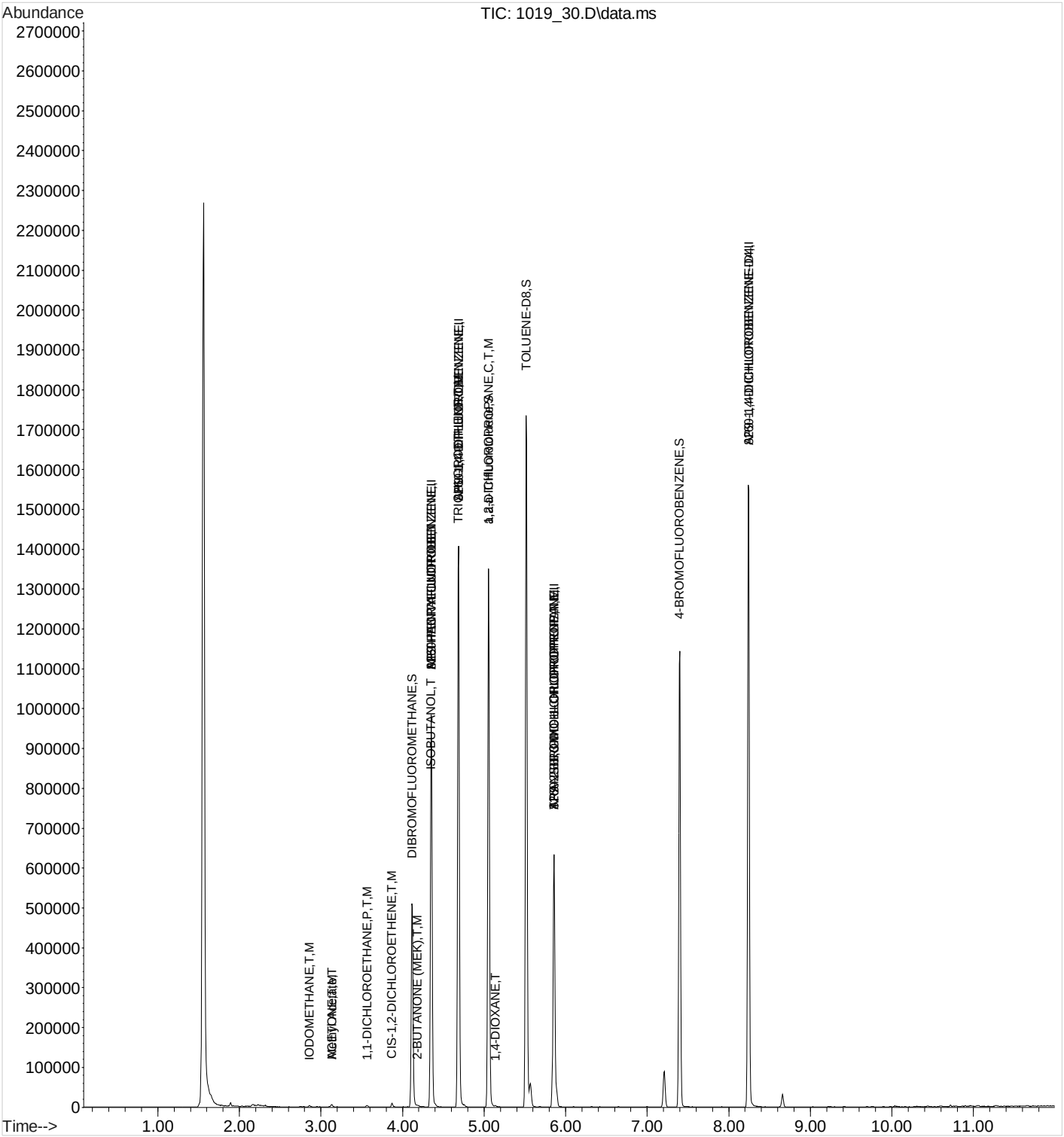
(#) = qualifier out of range (m) = manual integration (+) = signals summed

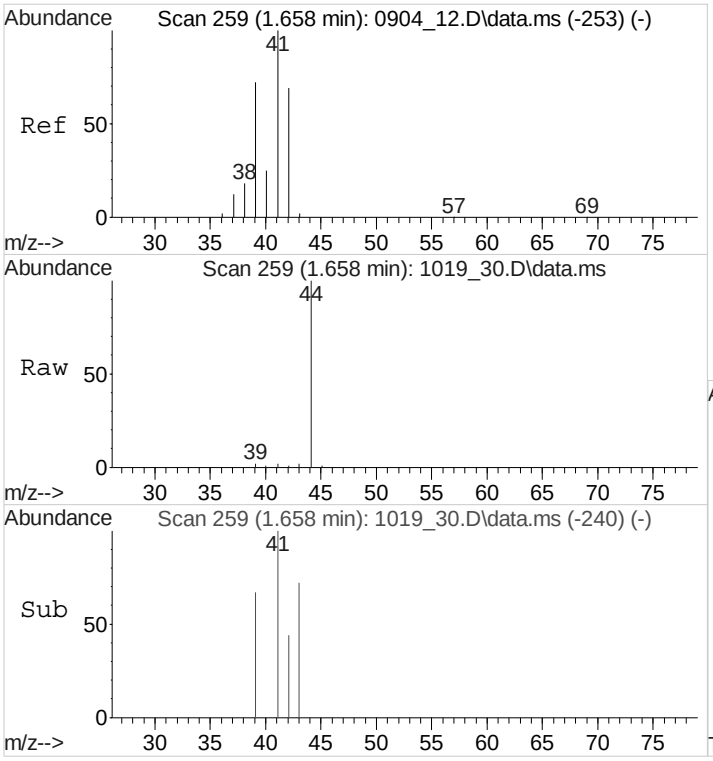
Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\101915\
Data File : 1019 30.D
Acq On : 19 Oct 2015 3:19 pm
Operator : 189
Sample : L793892-09 1x WG822564 V8260TCLC
Misc : water 15G07402
ALS Vial : 30 Sample Multiplier: 1

Quant Time: Oct 19 19:13:46 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

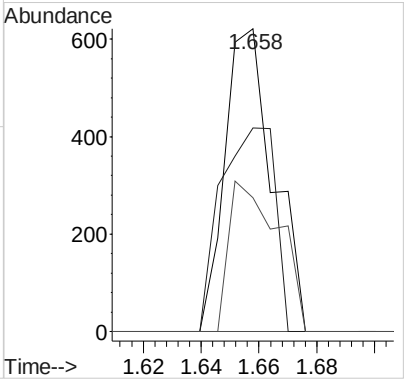


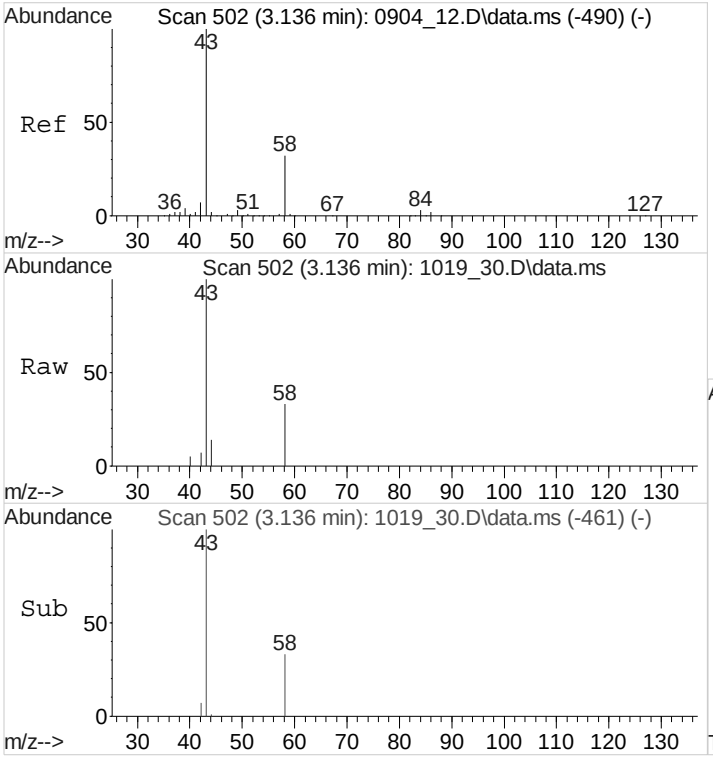


#3
PROPENE
Concen: Below Cal
RT: 1.658 min Scan# 259
Delta R.T. -0.000 min
Lab File: 1019 30.D
Acq: 19 Oct 2015 3:19 pm

Tgt Ion: 41 Resp: 723

Ion	Ratio	Lower	Upper
41	100		
39	75.5	59.5	89.3
42	0.0	52.3	78.5#

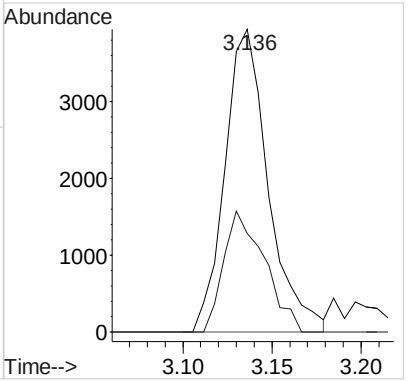


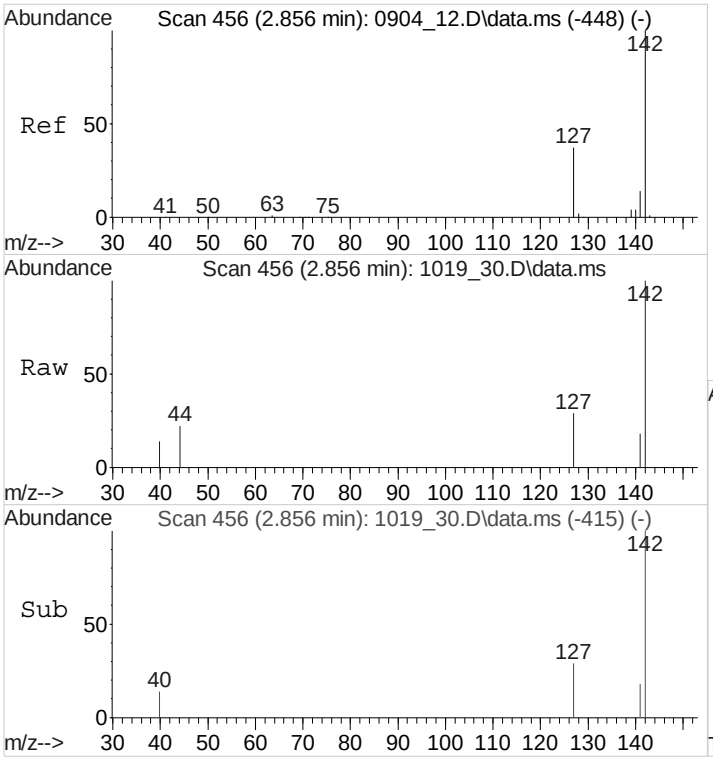


#16
ACETONE
Concen: 3.1473702 ppb
RT: 3.136 min Scan# 502
Delta R.T. 0.000 min
Lab File: 1019_30.D
Acq: 19 Oct 2015 3:19 pm

Tgt Ion: 43 Resp: 6665

Ion	Ratio	Lower	Upper
43	100		
58	37.7	25.9	38.9

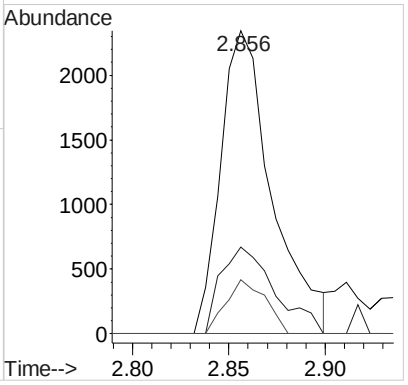


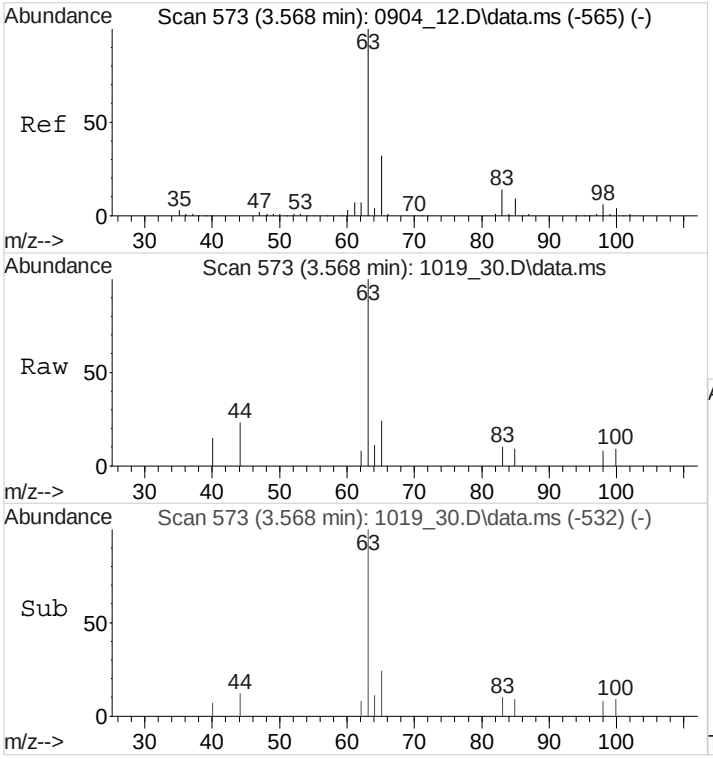


#17
IODOMETHANE
Concen: 0.6430540 ppb
RT: 2.856 min Scan# 456
Delta R.T. -0.000 min
Lab File: 1019 30.D
Acq: 19 Oct 2015 3:19 pm

Tgt Ion:142 Resp: 4353

Ion	Ratio	Lower	Upper
142	100		
127	29.9	29.5	44.3
141	13.7	11.1	16.7

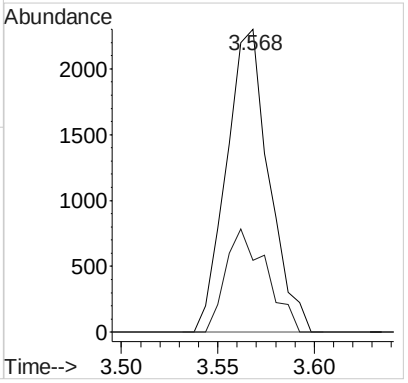


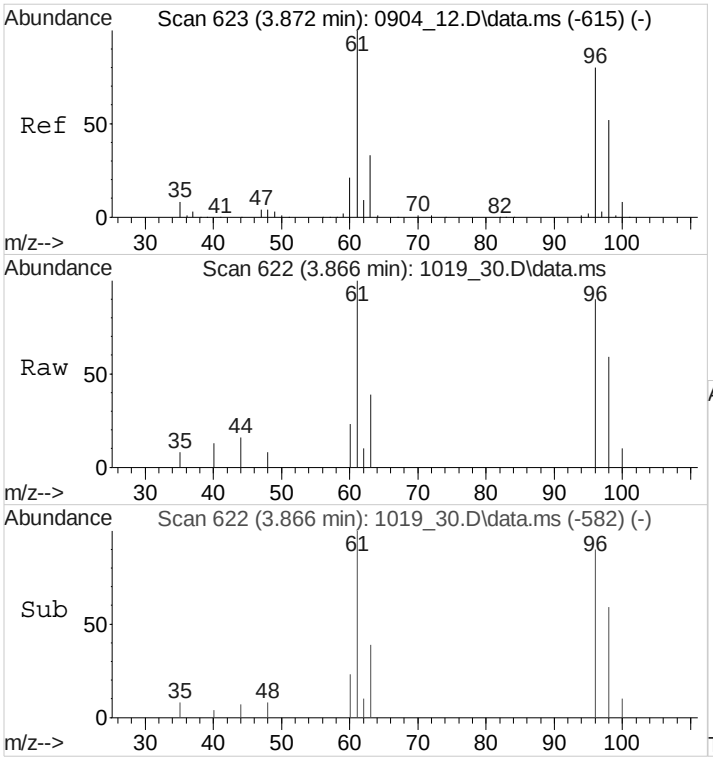


#24
1,1-DICHLOROETHANE
Concen: 0.3684156 ppb
RT: 3.568 min Scan# 573
Delta R.T. -0.000 min
Lab File: 1019_30.D
Acq: 19 Oct 2015 3:19 pm

Tgt Ion: 63 Resp: 3533

Ion	Ratio	Lower	Upper
63	100		
65	32.6	25.4	38.2

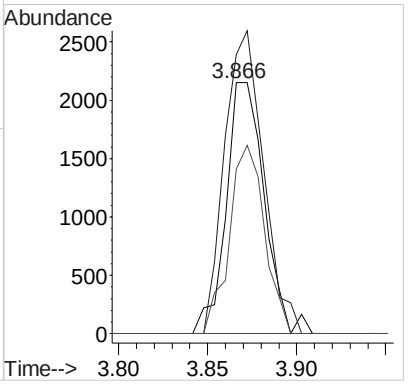


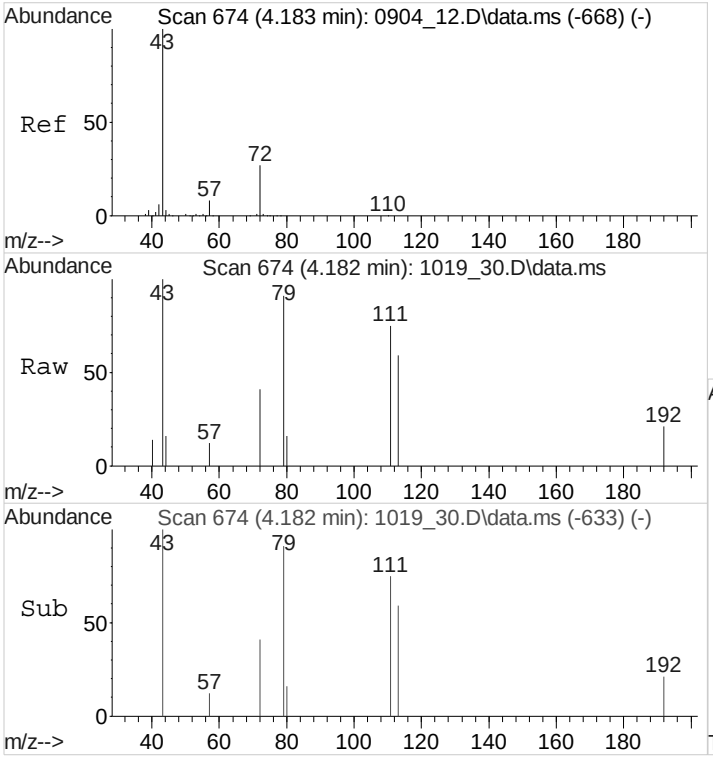


#28
CIS-1,2-DICHLOROETHENE
Concen: 0.5324676 ppb
RT: 3.866 min Scan# 622
Delta R.T. -0.006 min
Lab File: 1019 30.D
Acq: 19 Oct 2015 3:19 pm

Tgt Ion: 96 Resp: 3196

Ion	Ratio	Lower	Upper
96	100		
61	122.8	100.4	150.6
98	69.2	51.0	76.6

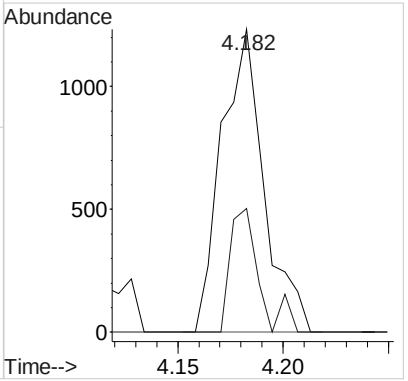


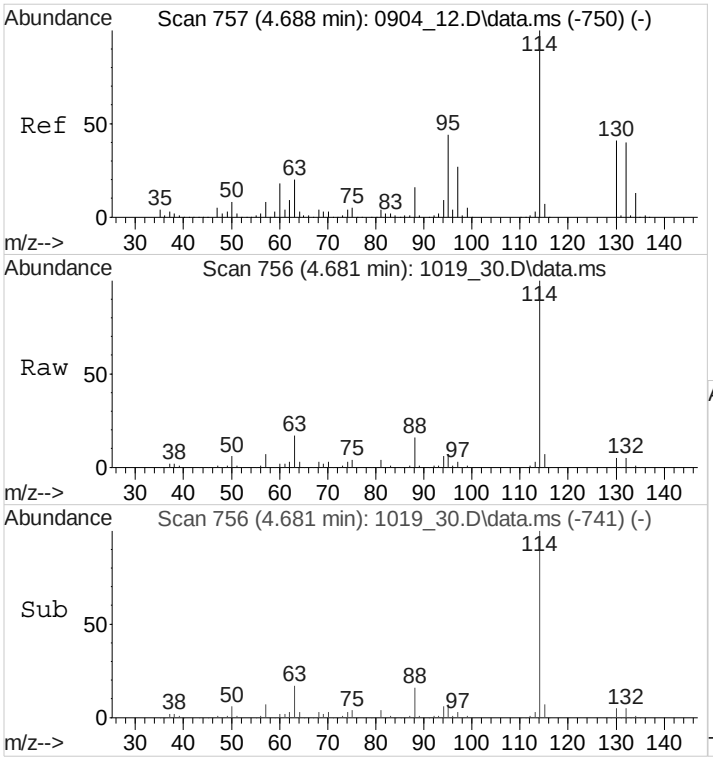


#29
2-BUTANONE (MEK)
Concen: 0.6640890 ppb
RT: 4.182 min Scan# 674
Delta R.T. 0.000 min
Lab File: 1019_30.D
Acq: 19 Oct 2015 3:19 pm

Tgt Ion: 43 Resp: 1729

Ion	Ratio	Lower	Upper
43	100		
72	0.0	23.5	35.3#

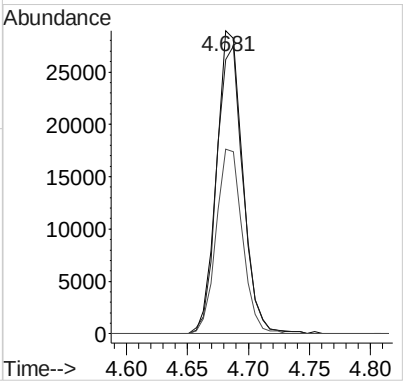


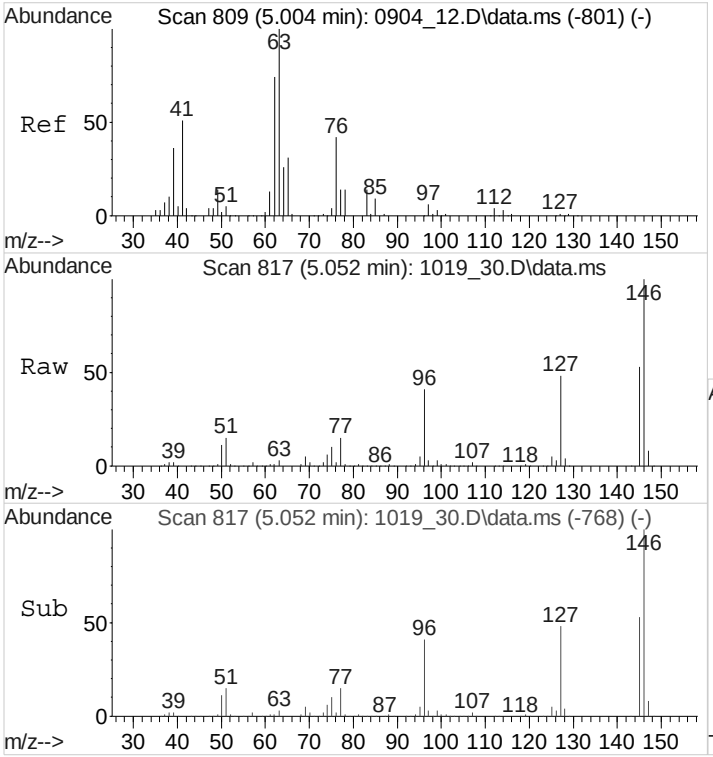


#42
TRICHLOROETHENE
Concen: 8.2726114 ppb
RT: 4.681 min Scan# 756
Delta R.T. -0.006 min
Lab File: 1019 30.D
Acq: 19 Oct 2015 3:19 pm

Tgt Ion:130 Resp: 43353

Ion	Ratio	Lower	Upper
130	100		
132	95.1	76.7	115.1
97	60.8	52.8	79.2

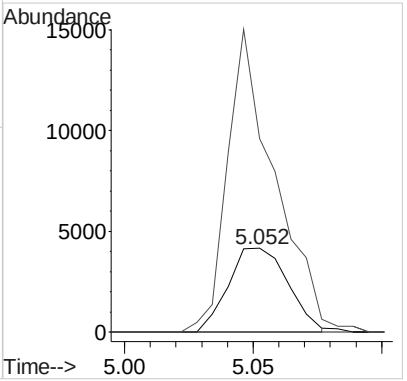


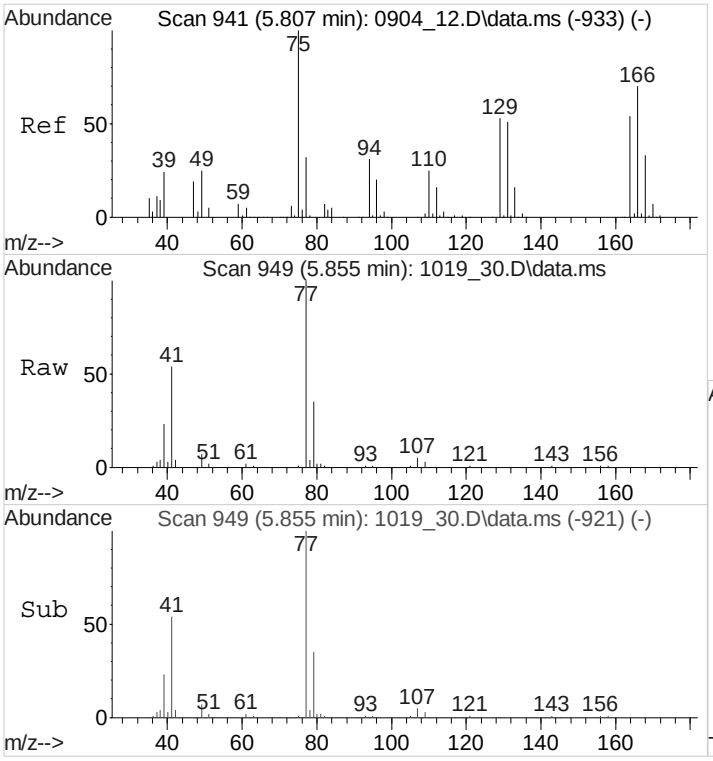


#43
1,2-DICHLOROPROPANE
Concen: 1.8210494 ppb
RT: 5.052 min Scan# 817
Delta R.T. 0.048 min
Lab File: 1019_30.D
Acq: 19 Oct 2015 3:19 pm

Tgt Ion: 62 Resp: 6719

Ion	Ratio	Lower	Upper
62	100		
65	0.0	35.0	52.4#
63	284.0	111.6	167.4#

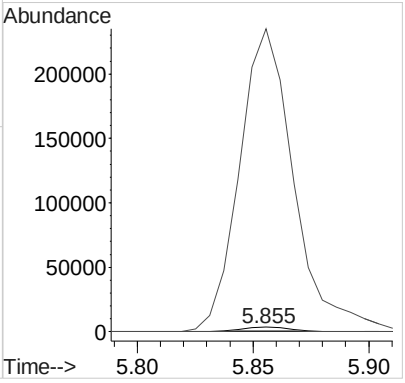


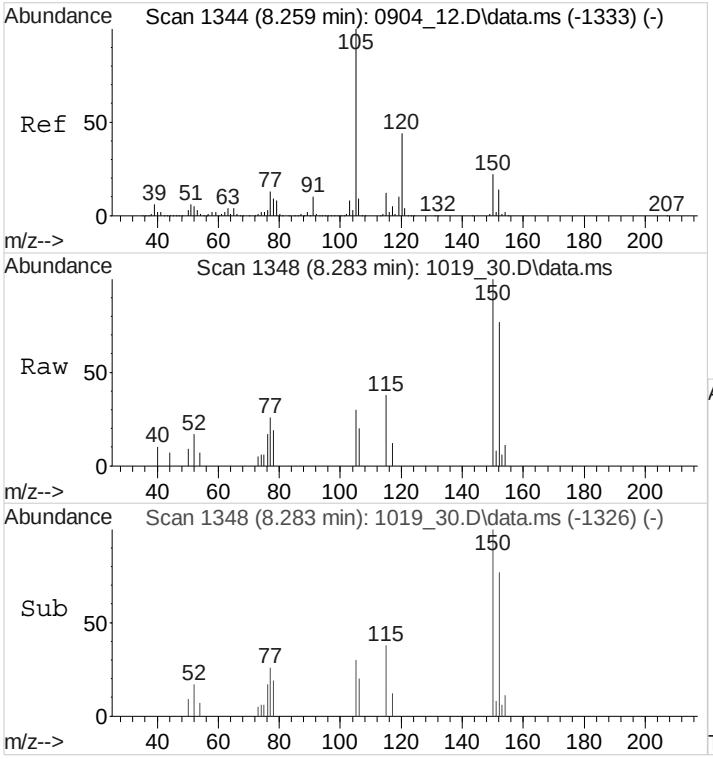


#52
TRANS-1,3-DICHLOROPROPENE
Concen: 0.8045322 ppb
RT: 5.855 min Scan# 949
Delta R.T. 0.048 min
Lab File: 1019 30.D
Acq: 19 Oct 2015 3:19 pm

Tgt Ion: 75 Resp: 5643

Ion	Ratio	Lower	Upper
75	100		
110	0.0	19.8	29.8#
77	6499.0	25.6	38.4#
73	25.2	5.2	7.8#

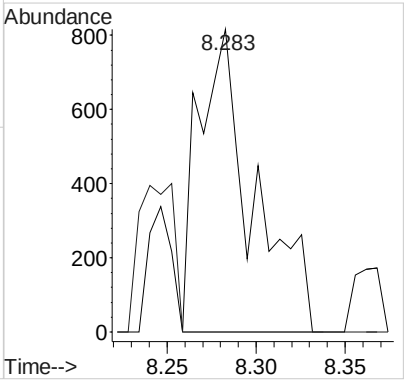


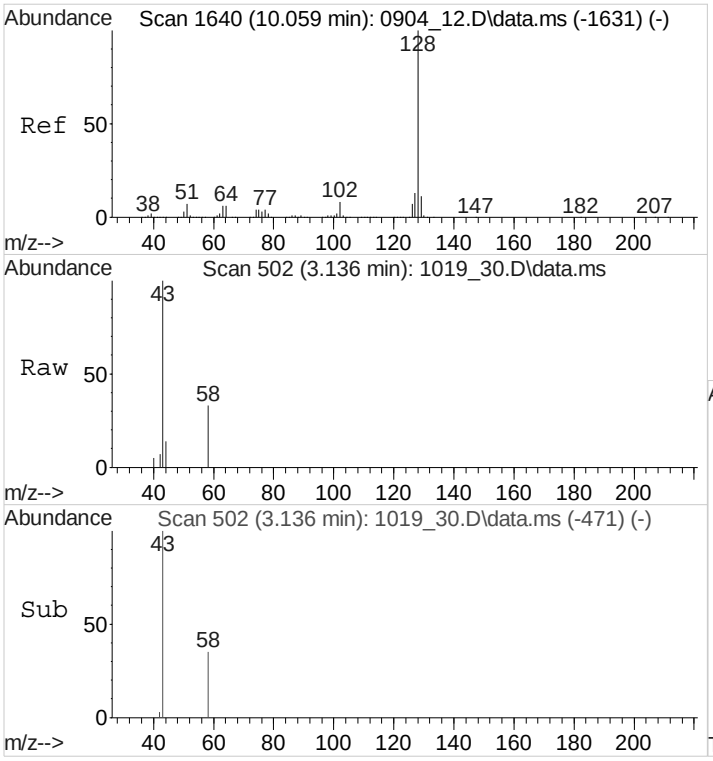


#86
1,2,3-TRIMETHYLBENZENE
Concen: Below Cal
RT: 8.283 min Scan# 1348
Delta R.T. 0.025 min
Lab File: 1019_30.D
Acq: 19 Oct 2015 3:19 pm

Tgt Ion:105 Resp: 1741

Ion	Ratio	Lower	Upper
105	100		
120	0.0	33.7	50.5#

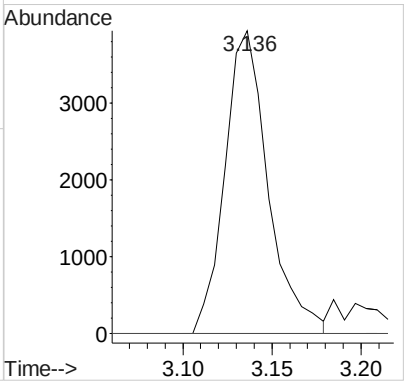


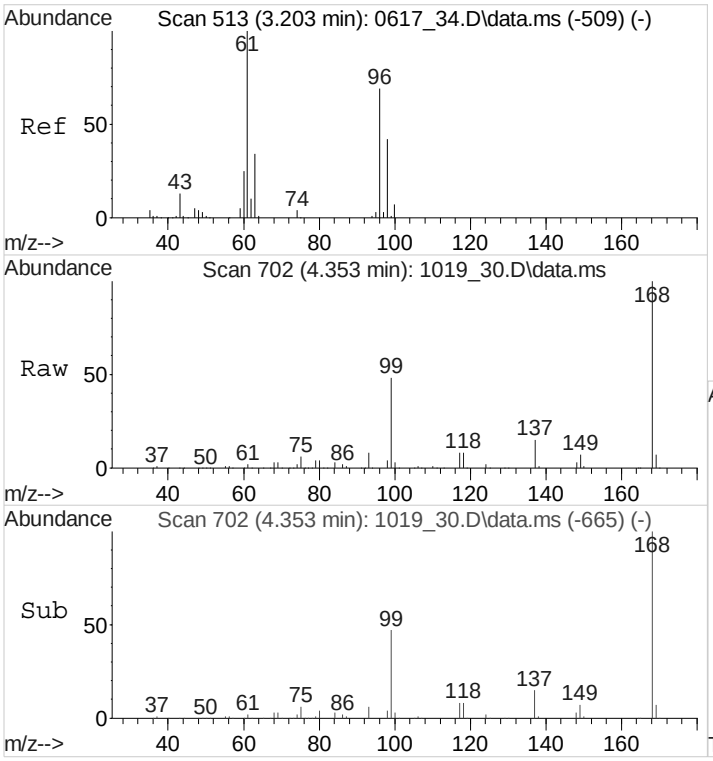


#100
Methyl Acetate
Concen: 2.1908166 ppb
RT: 3.136 min Scan# 502
Delta R.T. -0.061 min
Lab File: 1019 30.D
Acq: 19 Oct 2015 3:19 pm

Tgt Ion: 43 Resp: 6665

Ion	Ratio	Lower	Upper
43	100		
74	0.0	19.5	29.3#
29	0.0	0.0	0.0

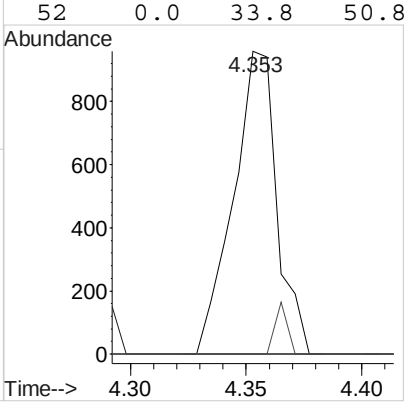


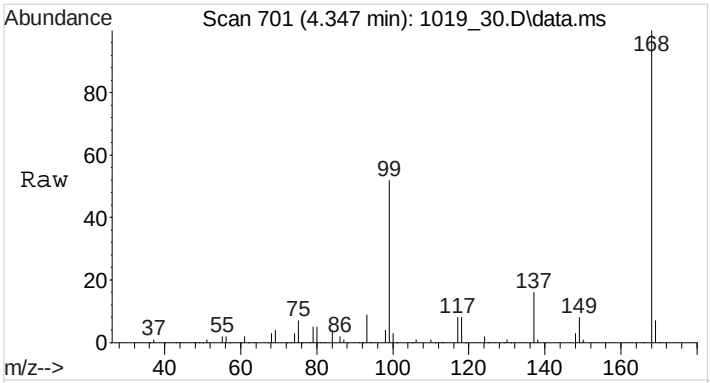


#108
METHACRYLONITRILE
Concen: 0.6954420 ppb
RT: 4.353 min Scan# 702
Delta R.T. -0.025 min
Lab File: 1019_30.D
Acq: 19 Oct 2015 3:19 pm

Tgt Ion: 67 Resp: 1257

Ion	Ratio	Lower	Upper
67	100		
41	0.0	117.1	175.7#
39	0.0	59.8	89.8#
52	0.0	33.8	50.8#

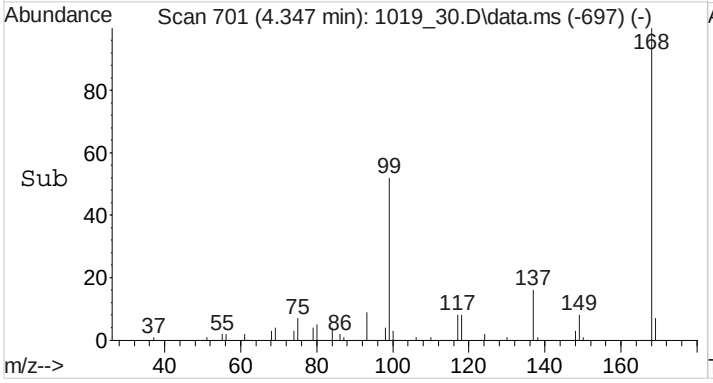


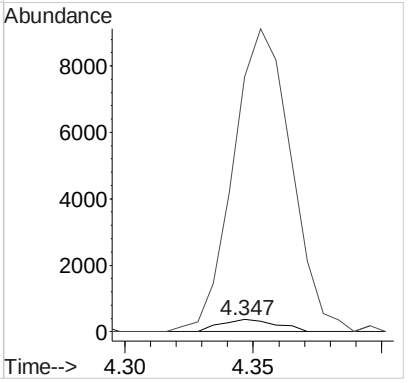


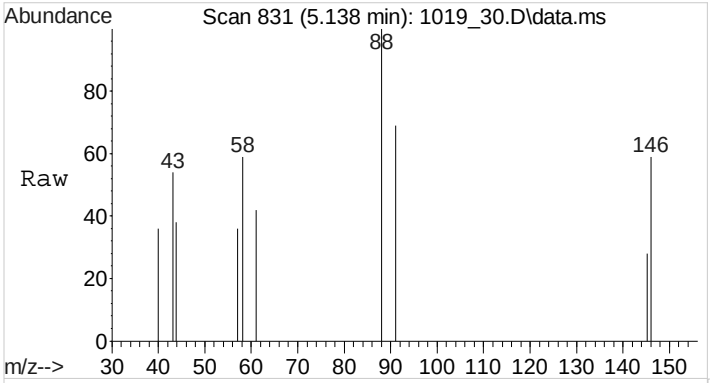
#111
ISOBUTANOL
Concen: 2.3773740 ppb
RT: 4.347 min Scan# 701
Delta R.T. -0.067 min
Lab File: 1019 30.D
Acq: 19 Oct 2015 3:19 pm

Tgt Ion: 43 Resp: 566

Ion	Ratio	Lower	Upper
43	100		
41	0.0	0.0	0.0
74	2540.6	8.8	13.2#



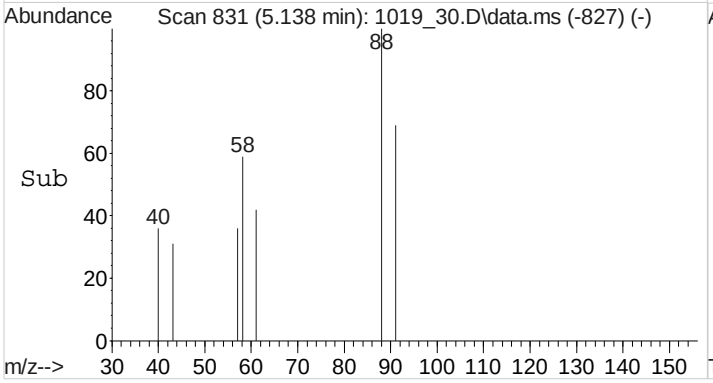


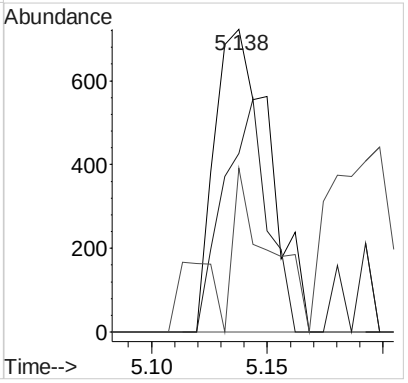


#119
1,4-DIOXANE
Concen: 21.4864895 ppb
RT: 5.138 min Scan# 831
Delta R.T. -0.000 min
Lab File: 1019_30.D
Acq: 19 Oct 2015 3:19 pm

Tgt Ion: 88 Resp: 1213

Ion	Ratio	Lower	Upper
88	100		
58	59.9	51.1	76.7
43	0.0	22.9	34.3#





Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS8
Computer Name : XENAPP6
Released By : Chris Harbin
Date Released : 10/22/2015 8:43:11 AM
Run ID : 101815
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1018_01	INSTBLK	V808J11O						1	1	10/18/15 0209	"soil IS/SURR15H19728"
2	1018_01T	INSTBLK	V808J11O							1	10/18/15 0209	
3	1018_02	ICV VMS 25 PPB 15J16754	V808J11O						1	1	10/18/15 0233	"soil IS/SURR15H19728"
4	1018_03	LCS	V808J11O	WG822755	V8260	SS			1	1	10/18/15 0323	"soil IS/SURR15H19728/spk15J11487 "
5	1018_04	LCSD	V808J11O	WG822755	V8260	SS			1	1	10/18/15 0347	"soil IS/SURR15H19728/spk15J11487 "
6	1018_05	1PPB	V808J11O						1	1	10/18/15 0411	"soil IS/SURR15H19728"
7	1018_06	AP9CV 10A PPB 15H20824	V808J11O						1	1	10/18/15 0435	"soil IS/SURR15H19728"
8	1018_07	LCSAP9	V808J11O	WG822755					1	1	10/18/15 0459	"soil IS/SURR15H19728/spk15H19752 "
9	1018_08	INSTBLK	V808J11O						1	1	10/18/15 0522	"soil IS/SURR15H19728"
10	1018_09	BLANK	V808J11O	WG822755	V8260	SS			1	1	10/18/15 0546	"soil IS/SURR15H19728"
11	1018_10	CCV VMS 25 PPB 15J16754	V808J11O						1	1	10/18/15 0747	"soil IS/SURR15H19728"
12	1018_10T	CCV VMS 25 ppb 15J16754	V808J11O							1	10/18/15 0747	
13	1018_11	MS	V808J11O	WG822755	V8260	SS			5	5	10/18/15 1048	"soil IS/SURR15H19728/spk15J11487 "
14	1018_12	MSD	V808J11O	WG822755	V8260	SS			5	5	10/18/15 1112	"soil IS/SURR15H19728/spk15J11487 "
15	1018_13	INSTBLK	V808J11O						1	1	10/18/15 1136	"soil IS/SURR15H19728"
16	1018_14	L793922-06	V808J11O	WG822755	V8260	SS	TERRDUT	UT	5	5	10/18/15 1200	"soil IS/SURR15H19728"
17	1018_15	L793821-01	V808J11O	WG822755	V8260	SS	BURGTAZ	TX	1	0.7	10/18/15 1224	"soil IS/SURR15H19728"
18	1018_16	L793821-03	V808J11O	WG822755	V8260	SS	BURGTAZ	TX	1.1	1.1	10/18/15 1248	"soil IS/SURR15H19728"
19	1018_17	L793826-09	V808J11O	WG822755	V8260	SS	BURGTAZ	TX	1	0.78	10/18/15 1312	"soil IS/SURR15H19728"
20	1018_18	L793826-17	V808J11O	WG822755	V8260	SS	BURGTAZ	TX	1	0.75	10/18/15 1337	"soil IS/SURR15H19728"
21	1018_19	L793848-07	V808J11O	WG822755	V8260HEX	SS	WEABOOSOH	OH	5	5	10/18/15 1401	"soil IS/SURR15H19728"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS8
Computer Name : XENAPP6
Released By : Chris Harbin
Date Released : 10/22/2015 8:43:12 AM
Run ID : 101815
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
22	1018_20	L793848-08	V808J11O	WG822755	V8260HEX	SS	WEABOOSOH	OH	5	5	10/18/15 1425	"soil IS/SURR15H19728"
23	1018_21	L793849-01	V808J11O	WG822755	V8260	SS	PMENVDAL	AL	5	5	10/18/15 1449	"soil IS/SURR15H19728"
24	1018_22	L793849-17	V808J11O	WG822755	V8260	SS	PMENVDAL	AL	5	5	10/18/15 1513	"soil IS/SURR15H19728"
25	1018_23	L793849-18	V808J11O	WG822755	V8260	SS	PMENVDAL	AL	5	5	10/18/15 1537	"soil IS/SURR15H19728"
26	1018_24	L793849-19	V808J11O	WG822755	V8260	SS	PMENVDAL	AL	5	5	10/18/15 1601	"soil IS/SURR15H19728"
27	1018_25	L793849-20	V808J11O	WG822755	V8260	SS	PMENVDAL	AL	5	5	10/18/15 1625	"soil IS/SURR15H19728"
28	1018_26	DNR L793917-01	V808J11O	WG822755					100	100	10/18/15 1649	"soil IS/SURR15H19728"
29	1018_27	L793939-01	V808J11O	WG822755	V8260MI	SS	MAROILSOH	OH	50000	50000	10/18/15 1713	"soil IS/SURR15H19728"
30	1018_28	L793826-10	V808J11O	WG822755	V8260	SS	BURGTAZ	TX	1	0.74	10/18/15 1737	"soil IS/SURR15H19728"
31	1018_29	L793826-11	V808J11O	WG822755	V8260	SS	BURGTAZ	TX	1	0.71	10/18/15 1803	"soil IS/SURR15H19728"
32	1018_30	L794796-09	V808J11O	WG822755	V8260	SS	WATENVSOH	FL	5	5	10/18/15 1921	"soil IS/SURR15H19728"
33	1018_31	L794796-10	V808J11O	WG822755	V8260	SS	WATENVSOH	FL	5	5	10/18/15 1946	"soil IS/SURR15H19728"
34	1018_32	INSTBLK	V808J11O						1	1	10/18/15 2010	"water IS/SURR15H19728"
35	1018_32T	INSTBLK								1	10/18/15 2010	
36	1018_33	ICV VMS 25 PPB 15J16754	V808J11O						1	1	10/18/15 2034	"water IS/SURR15H19728"
36	1018_33-1	ICV VMS 25 PPB 15J16754	V808J11O						1	1	10/18/15 2034	"water IS/SURR15H19728"
37	1018_33T	ICV VMS 25 ppb 15J16754	V808J11O							1	10/18/15 2034	
38	1018_34	LCS	V808J11O	WG822800	V8260TCLC	GW			1	1	10/18/15 2104	"water IS/SURR15H19728/spk15J11487 "
38	1018_34-2	LCS	V808J11O	WG822800	V8260AP9	GW	MAROILSOH		1	1	10/18/15 2104	"water IS/SURR15H19728/spk15J11487 "
39	1018_35	LCSD	V808J11O	WG822800	V8260TCLC	GW			1	1	10/18/15 2128	"water IS/SURR15H19728/spk15J11487 "
39	1018_35-2	LCSD	V808J11O	WG822800	V8260AP9	GW	MAROILSOH		1	1	10/18/15 2128	"water IS/SURR15H19728/spk15J11487 "

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS8
Computer Name : XENAPP6
Released By : Chris Harbin
Date Released : 10/22/2015 8:43:12 AM
Run ID : 101815
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
40	1018_36	AP9CV 10A PPB 15H20824	V808J11O						1	1	10/18/15 2152	"water IS/SURR15H19728"
41	1018_37	LCSAP9	V808J11O	WG822800					1	1	10/18/15 2216	"water IS/SURR15H19728/spk15H19752 "
42	1018_38	1	V808J11O						1	1	10/18/15 2240	"water IS/SURR15H19728"
43	1018_39	INSTBLK	V808J11O						1	1	10/18/15 2304	"water IS/SURR15H19728"
44	1018_40	BLANK	V808J11O	WG822800	V8260TCLC	GW			1	1	10/18/15 2327	"water IS/SURR15H19728"
44	1018_40-2	BLANK	V808J11O	WG822800	V8260AP9	GW	MAROILSOH		1	1	10/18/15 2327	"water IS/SURR15H19728"
45	1018_41	MS	V808J11O	WG822800	V8260TCLC	GW			1	1	10/18/15 2351	"water IS/SURR15H19728/spk15J11487 "
45	1018_41-2	MS	V808J11O	WG822800	V8260AP9	GW	MAROILSOH		1	1	10/18/15 2351	"water IS/SURR15H19728/spk15J11487 "
46	1018_42	MSD	V808J11O	WG822800	V8260TCLC	GW			1	1	10/19/15 0015	"water IS/SURR15H19728/spk15J11487 "
46	1018_42-2	MSD	V808J11O	WG822800	V8260AP9	GW	MAROILSOH		1	1	10/19/15 0015	"water IS/SURR15H19728/spk15J11487 "
47	1018_43	INSTBLK	V808J11O						1	1	10/19/15 0039	"water IS/SURR15H19728"
48	1018_44	L794571-07	V808J11O	WG822800	V8260OXY	GW	APEXPPMN	MN	1	1	10/19/15 0103	"water IS/SURR15H19728"
49	1018_45	L794661-03	V808J11O	WG822800	V8260BTEXMN	GW	BROCALBID	ID	1	1	10/19/15 0128	"water IS/SURR15H19728"
50	1018_46	L794661-01	V808J11O	WG822800	V8260BTEXMN	GW	BROCALBID	ID	1	1	10/19/15 0152	"water IS/SURR15H19728"
51	1018_47	L793865-03	V808J11O	WG822800	V8260TCLC	GW	LCSBNY	NY	250	250	10/19/15 0217	"water IS/SURR15H19728"
52	1018_48	L793892-09	V808J11O	WG822800	V8260TCLC	GW	LABRNY	NY	1	1	10/19/15 0241	"water IS/SURR15H19728"
53	1018_49	L794038-01	V808J11O	WG822800	V8260AP9	GW	PIEGEO	NC	1	1	10/19/15 0306	"water IS/SURR15H19728"
54	1018_50	L794107-25	V808J11O	WG822800	V8260AP9	GW	MAROILSOH	MI	1	1	10/19/15 0330	"water IS/SURR15H19728"
55	1018_51	L794275-01	V808J11O	WG822800	V8260AZ	GW	WASMANTAZ	AZ	1	1	10/19/15 0355	"water IS/SURR15H19728"
56	1018_52	L794323-01	V808J11O	WG822800	V8260AZ	GW	CHETRAPAZ	AZ	10	10	10/19/15 0420	"water IS/SURR15H19728"
57	1018_53	L794323-02	V808J11O	WG822800	V8260AZ	GW	CHETRAPAZ	AZ	1	1	10/19/15 0444	"water IS/SURR15H19728"
58	1018_54	L794323-03	V808J11O	WG822800	V8260AZ	GW	CHETRAPAZ	AZ	1	1	10/19/15 0509	"water IS/SURR15H19728"
59	1018_55	L794323-04	V808J11O	WG822800	V8260AZ	GW	CHETRAPAZ	AZ	1	1	10/19/15 0533	"water IS/SURR15H19728"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS8
Computer Name : XENAPP6
Released By : Chris Harbin
Date Released : 10/22/2015 8:43:12 AM
Run ID : 101815
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
60	1018_56	L794323-05	V808J11O	WG822800	V8260AZ	GW	CHETRAPAZ	AZ	1	1	10/19/15 0558	"water IS/SURR15H19728"
61	1018_57	L794530-01	V808J11O	WG822800	V8260AZ	GW	WASMANTAZ	AZ	1	1	10/19/15 0623	"water IS/SURR15H19728"
62	1018_58	L794533-01	V808J11O	WG822800	V8260AZ	GW	WASMANTAZ	AZ	1	1	10/19/15 0647	"water IS/SURR15H19728"
63	1018_59	L794571-04	V808J11O	WG822800	V8260OXY	GW	APEXPPMN	MN	1	1	10/19/15 0712	"water IS/SURR15H19728"
64	1018_60	L794571-05	V808J11O	WG822800	V8260OXY	GW	APEXPPMN	MN	500	500	10/19/15 0737	"water IS/SURR15H19728"
65	1018_61	L794571-06	V808J11O	WG822800	V8260OXY	GW	APEXPPMN	MN	500	500	10/19/15 0801	"water IS/SURR15H19728"
66	1018_62	L794661-02	V808J11O	WG822800	V8260BTEXMN	GW	BROCALBID	ID	1	1	10/19/15 0826	"water IS/SURR15H19728"

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018 33.D Vial: 33
Acq On : 18 Oct 2015 8:34 pm Operator: 522
Sample : ICV VMS 25 ppb 15J16754 Inst : VOCMS8
Misc : water IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 09:02:12 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.56	168	401320	40.00	ppb	-0.02
41) 8260-1,4-DIFLUOROBENZENE	4.90	114	748626	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.08	79	126192	40.00	ppb	-0.02
84) 8260-1,4-DICHLOROBENZENE-D	8.48	152	306625	40.00	ppb	-0.02
96) AP9-PENTAFLUOROBENZENE	4.56	168	401366	40.00	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.90	114	748626	40.00	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.08	79	126192	40.00	ppb	-0.01
128) AP9-1,4-DICHLOROBENZENE-D4	8.48	152	306625	40.00	ppb	-0.01
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.33	111	205439	40.9694085	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 102.42%			
46) A,A,A-TRIFLUOROTOLUENE	5.26	146	399341	41.6816253	ppb	-0.02
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.20%			
50) TOLUENE-D8	5.74	98	932340	41.4570851	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 103.64%			
68) 4-BROMOFLUOROBENZENE	7.63	95	340059	40.6210863	ppb	-0.02
Spiked Amount 40.000	Range 80 - 120		Recovery = 101.55%			
Target Compounds						Qvalue
3) PROPENE	1.76	41	24646	19.1551163	ppb	98
4) DICHLORODIFLUOROMETHANE	1.80	85	108255	27.3287103	ppb	98
5) CHLOROMETHANE	2.00	50	129106	21.3458984	ppb	100
6) VINYL CHLORIDE	2.07	62	146649	25.8605620	ppb	99
7) 1,3-BUTADIENE	2.08	39	89418	24.5151143	ppb	95
8) BROMOMETHANE	2.34	94	35324	28.4125607	ppb	97
9) CHLOROETHANE	2.44	64	79961	40.6424603	ppb	99
10) TRICHLOROFLUOROMETHANE	2.55	101	142528	27.3794879	ppb	99
11) DICHLOROFLUORMETHANE	2.59	67	196767	26.3605279	ug/l	100
12) ETHYL ETHER	2.77	59	86447	24.3925433	ppb	100
13) ACROLEIN	3.14	56	116918	134.6252840	ppb	100
14) 1,1-DICHLOROETHENE	2.93	96	90693	24.3601890	ppb	98
15) 1,1,2-TRICHLOROTRIFLUOROET	2.94	101	92023	24.5181960	ppb	99
16) ACETONE	3.31	43	356863	135.1967668	ppb	98
17) IODOMETHANE	3.04	142	543293	117.2656760	ppb	100
18) CARBON DISULFIDE	2.97	76	326490	23.2425146	ppb	100
19) METHYLENE CHLORIDE	3.30	84	111160	26.7289848	ppb	96
20) ACRYLONITRILE	3.79	53	222570	135.3696617	ppb	99
21) n-HEXANE	3.43	56	109311	23.8805541	ppb	96
22) TRANS-1,2-DICHLOROETHENE	3.40	96	102418	23.9645780	ppb	94
23) METHYL TERT-BUTYL ETHER	3.44	73	298479	24.1683385	ppb	99
24) 1,1-DICHLOROETHANE	3.76	63	186622	24.2364259	ppb	100
25) VINYL ACETATE	3.87	43	1018779	155.7037665	ppb	98
26) DI-ISOPROPYL ETHER	3.65	45	335454	24.6120594	ppb	99
27) 2,2-DICHLOROPROPANE	4.14	77	165438	24.7730561	ppb	100
28) CIS-1,2-DICHLOROETHENE	4.08	96	108754	24.1272758	ppb	92
29) 2-BUTANONE (MEK)	4.38	43	421581	139.6868089	ppb	90
30) BROMOCHLOROMETHANE	4.20	130	56797	26.7925412	ppb	100
31) TETRAHYDROFURAN	4.32	42	38486	23.2828997	ppb	96
32) CHLOROFORM	4.22	83	171725	25.3240452	ppb	97
34) 1,1,1-TRICHLOROETHANE	4.36	97	147571	25.3110029	ppb	96
35) CARBON TETRACHLORIDE	4.32	117	125119	25.2103357	ppb	99
36) 1,1-DICHLOROPROPENE	4.43	75	142842	24.2731205	ppb	97
37) 2,2,4-TRIMETHYLPENTANE	4.47	57	602062	25.0424371	ppb	99
38) HEPTANE	4.50	71	131586	24.6153597	ppb #	89

(#) = qualifier out of range (m) = manual integration

Data File : C:\MSDCHEM\1\DATA\101815\1018 33.D Vial: 33
Acq On : 18 Oct 2015 8:34 pm Operator: 522
Sample : ICV VMS 25 ppb 15J16754 Inst : VOCMS8
Misc : water IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 09:02:12 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	BENZENE	4.57	78	443386	24.2911058 ppb		98
40)	1,2-DICHLOROETHANE	4.68	62	128307	24.0397923 ppb		98
42)	TRICHLOROETHENE	4.90	130	104053	23.4765037 ppb	#	66
43)	1,2-DICHLOROPROPANE	5.22	62	83893	25.1185556 ppb		98
44)	DIBROMOMETHANE	5.17	93	56536	25.0953857 ppb		99
45)	BROMODICHLOROMETHANE	5.24	83	132008	24.1100562 ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.54	63	229424	99.6868985 ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.62	75	179765	24.9503264 ppb		99
49)	4-METHYL-2-PENTANONE (MIBK	5.98	43	554516	127.2571720 ppb		96
51)	TOLUENE	5.77	91	472851	23.4568766 ppb		98
52)	TRANS-1,3-DICHLOROPROPENE	6.02	75	156476	25.1811369 ppb		98
54)	1,1,2-TRICHLOROETHANE	6.13	97	91111	24.5496236 ppb		97
55)	TETRACHLOROETHENE	6.04	164	76824	23.5736400 ppb		94
56)	1,3-DICHLOROPROPANE	6.32	76	166658	23.6558166 ppb		99
57)	2-HEXANONE	6.52	58	300148	125.1182344 ppb		96
58)	CHLORODIBROMOMETHANE	6.27	129	86629	23.1574294 ppb		98
59)	1,2-DIBROMOETHANE	6.45	107	86586	24.3144570 ppb		96
60)	CHLOROBENZENE	6.79	112	283737	24.7759854 ppb		98
61)	1,1,1,2-TETRACHLOROETHANE	6.82	133	84133	23.6852843 ppb	#	96
62)	ETHYLBENZENE	6.77	106	165582	24.4939948 ppb		91
63)	M&P-XYLENE	6.87	106	412237	48.6458660 ppb		96
64)	O-XYLENE	7.18	106	190898	24.0749045 ppb		94
65)	STYRENE	7.22	104	308544	24.2842833 ppb		88
66)	BROMOFORM	7.27	173	54638	23.8430096 ppb		97
67)	ISOPROPYLBENZENE	7.40	105	487357	23.0992859 ppb		98
69)	BROMOBENZENE	7.72	77	221437	24.3134785 ppb		97
70)	1,1,2,2-TETRACHLOROETHANE	7.75	83	128227	25.5473757 ppb		98
71)	1,2,3-TRICHLOROPROPANE	7.87	110	36033	24.6746547 ppb		92
72)	TRANS-1,4-DICHLORO-2-BUTEN	7.89	53	37741	24.0624501 ppb		91
73)	N-PROPYLBENZENE	7.70	91	641865	25.9078887 ppb		99
74)	4-ETHYLTOLUENE	7.78	105	512968	25.3070121 ppb		98
75)	2-CHLOROTOLUENE	7.84	91	400678	24.7990361 ppb		99
76)	4-CHLOROTOLUENE	7.97	91	370691	25.0937231 ppb		99
77)	1,3,5-TRIMETHYLBENZENE	7.84	105	430525	24.4662270 ppb		97
78)	TERT-BUTYLBENZENE	8.09	119	349089	24.5236179 ppb		95
79)	1,2,4-TRIMETHYLBENZENE	8.14	105	425124	26.3180112 ppb		95
80)	SEC-BUTYLBENZENE	8.22	105	546910	24.4125628 ppb		97
81)	1,3-DICHLOROBENZENE	8.43	146	214002	25.3675643 ppb		97
82)	P-ISOPROPYLTOLUENE	8.32	119	469166	25.6593679 ppb		99
83)	DICYCLOPENTADIENE	8.35	66	527352	24.9085355 ppb		100
85)	1,4-DICHLOROBENZENE	8.50	146	213802	24.3746933 ppb		98
86)	1,2,3-TRIMETHYLBENZENE	8.49	105	422616	25.5277723 ppb		100
87)	1,2-DICHLOROBENZENE	8.84	146	190933	23.9939827 ppb		99
88)	N-BUTYLBENZENE	8.66	91	431146	26.3810979 ppb		100
89)	1,2-DIBROMO-3-CHLOROPROPAN	9.47	157	22243	22.5107544 ppb		99
90)	1,2,4-TRICHLOROBENZENE	10.03	180	128077	26.8450370 ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.99	225	66576	24.6301361 ppb		100
92)	NAPHTHALENE	10.30	128	344417	25.3098668 ppb		100
93)	1,2,3-TRICHLOROBENZENE	10.47	180	122198	26.5171783 ppb		98
94)	1-METHYLNAPHTHALENE	11.18	142	196166	29.0179353 ppb		99
95)	2-METHYLNAPHTHALENE	11.32	142	174964	26.4307536 ppb		98
100)	METHYL ACETATE	3.43	43	182669	47.6529112 ppb	#	66
101)	ACETONITRILE	3.65	41	53257	77.1278971 ppb	#	38
104)	CHLOROPRENE	3.79	53	222924	28.1329062 ppb	#	22

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018 33.D Vial: 33
Acq On : 18 Oct 2015 8:34 pm Operator: 522
Sample : ICV VMS 25 ppb 15J16754 Inst : VOCMS8
Misc : water IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 09:02:12 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

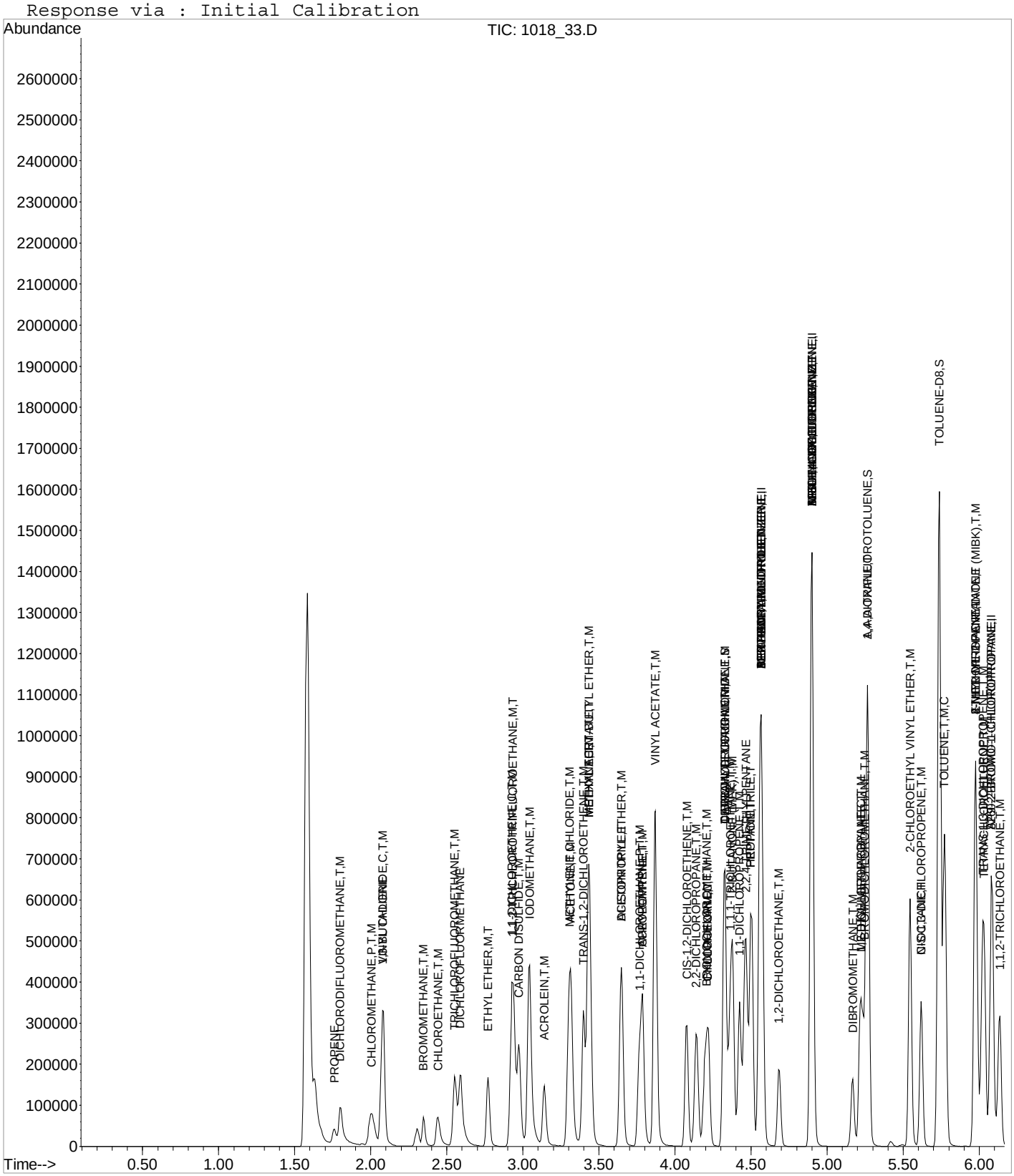
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
106) PROPIONITRILE	4.50	54	1847	2.1226435	ppb	#	1
108) METHACRYLONITRILE	4.56	67	910	0.3987325	ppb	#	1
109) CYCLOHEXANE	4.22	84	6805	0.5523753	ppb	#	2
113) TERT-AMYL METHYL ETHER	4.57	73	7181	0.4451701	ppb	#	1
115) N-BUTANOL	4.90	56	14432	69.6262379	ppb	#	23
116) METHYL CYCLOHEXANE	4.90	83	10839	0.7066290	ppb	#	46
117) 2-NITROPROPANE	5.98	43	554516	380.9828004	ppb	#	42
118) METHYL METHACRYLATE	5.22	41	53970	12.3340828	ppb	#	12
119) 1,4-DIOXANE	5.26	88	4204	62.3183890	ppb	#	25
120) N-OCTANE	5.62	85	1940	0.3340054	ppb	#	19
123) ETHYL METHACRYLATE	5.97	69	4148	0.7630216	ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.66	53	1042	0.6952274	ppb	#	1
126) PENTACHLOROETHANE	8.14	117	14411	6.0040141	ppb	#	14

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018 33.D Vial: 33
Acq On : 18 Oct 2015 8:34 pm Operator: 522
Sample : ICV VMS 25 ppb 15J16754 Inst : VOCMS8
Misc : water IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 9:02 2015 Quant Results File: V808J11O.RES

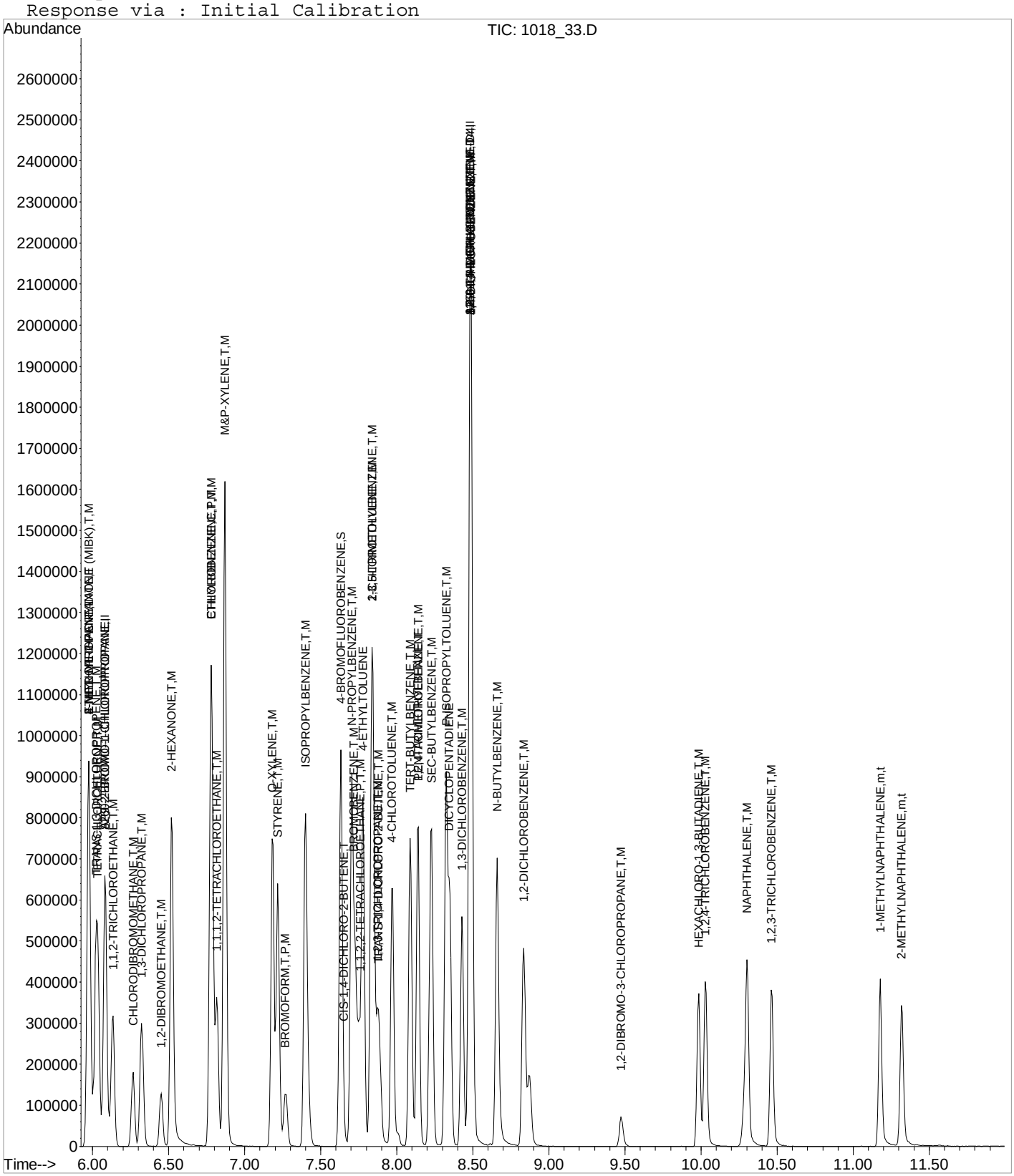
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



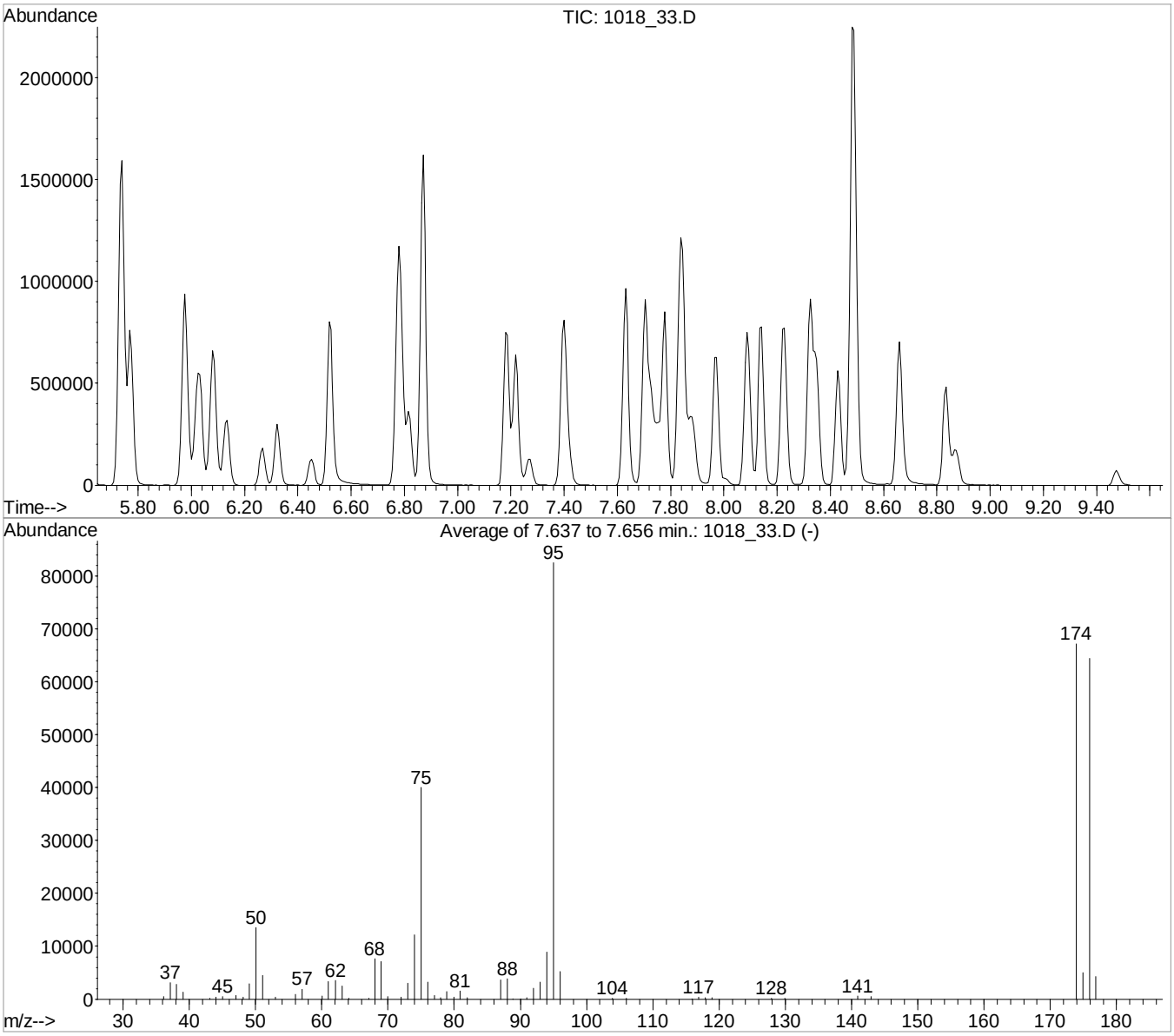
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018_33.D Vial: 33
Acq On : 18 Oct 2015 8:34 pm Operator: 522
Sample : ICV VMS 25 ppb 15J16754 Inst : VOCMS8
Misc : water IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 9:02 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\101815\1018 33.D Vial: 33
Acq On : 18 Oct 2015 8:34 pm Operator: 522
Sample : ICV VMS 25 ppb 15J16754 Inst : VOCMS8
Misc : water IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08



Spectrum Information: Average of 7.637 to 7.656 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.4	13555	PASS
75	95	30	60	48.4	40001	PASS
95	95	100	100	100.0	82582	PASS
96	95	5	9	6.3	5195	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	81.3	67180	PASS
175	174	5	9	7.5	5006	PASS
176	174	95	101	96.0	64487	PASS
177	176	5	9	6.6	4241	PASS

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018 34.D Vial: 34
Acq On : 18 Oct 2015 9:04 pm Operator: 522
Sample : LCS 1x WG822800 Inst : VOCMS8
Misc : water IS/SURR15H19728/spk15J11487 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 09:02:15 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.56	168	411701	40.00 ppb	-0.02
41) 8260-1,4-DIFLUOROBENZENE	4.90	114	757254	40.00 ppb	-0.01
53) 8260-2-BROMO-1-CHLOROPROPA	6.08	79	122918	40.00 ppb	-0.01
84) 8260-1,4-DICHLOROBENZENE-D	8.48	152	300214	40.00 ppb	-0.02
96) AP9-PENTAFLUOROBENZENE	4.56	168	411811	40.00 ppb	-0.01
114) AP9-1,4-DIFLUOROBENZENE	4.90	114	757254	40.00 ppb	-0.01
122) AP9-2-BROMO-1-CHLOROPROPAN	6.08	79	122918	40.00 ppb	-0.01
128) AP9-1,4-DICHLOROBENZENE-D4	8.48	152	300214	40.00 ppb	-0.02
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.33	111	205059	39.8624987 ppb	-0.01
Spiked Amount 40.000	Range 79 - 121		Recovery = 99.66%		
46) A,A,A-TRIFLUOROTOLUENE	5.26	146	396889	40.9536992 ppb	-0.02
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.38%		
50) TOLUENE-D8	5.74	98	948037	41.6747558 ppb	-0.01
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.19%		
68) 4-BROMOFLUOROBENZENE	7.63	95	335189	41.1058238 ppb	-0.02
Spiked Amount 40.000	Range 80 - 120		Recovery = 102.76%		
Target Compounds					Qvalue
3) PROPENE	1.76	41	13299	10.0754910 ppb	98
4) DICHLORODIFLUOROMETHANE	1.80	85	92495	22.7613654 ppb	99
5) CHLOROMETHANE	2.00	50	118956	19.0239681 ppb	99
6) VINYL CHLORIDE	2.07	62	137040	23.5567344 ppb	98
7) 1,3-BUTADIENE	2.08	39	90244	24.1177166 ppb	97
8) BROMOMETHANE	2.35	94	36008	28.2324379 ppb	99
9) CHLOROETHANE	2.44	64	76089	37.4987489 ppb	95
10) TRICHLOROFLUOROMETHANE	2.56	101	139665	26.1530050 ppb	99
11) DICHLOROFLUORMETHANE	2.59	67	194381	25.3842615 ug/l	98
12) ETHYL ETHER	2.77	59	87150	23.9708498 ppb	99
13) ACROLEIN	3.14	56	98345	110.3840746 ppb	100
14) 1,1-DICHLOROETHENE	2.93	96	90829	23.7815579 ppb	98
15) 1,1,2-TRICHLOROTRIFLUOROET	2.94	101	91137	23.6698626 ppb	99
16) ACETONE	3.32	43	330290	121.9745123 ppb	100
17) IODOMETHANE	3.04	142	545152	114.7350078 ppb	100
18) CARBON DISULFIDE	2.98	76	330193	22.9134230 ppb	99
19) METHYLENE CHLORIDE	3.30	84	106948	25.0677569 ppb	97
20) ACRYLONITRILE	3.78	53	207753	123.1716909 ppb	99
21) n-HEXANE	3.43	56	110375	23.5049932 ppb	99
22) TRANS-1,2-DICHLOROETHENE	3.40	96	100705	22.9695988 ppb	94
23) METHYL TERT-BUTYL ETHER	3.44	73	293429	23.1603399 ppb	97
24) 1,1-DICHLOROETHANE	3.77	63	186981	23.6707542 ppb	99
25) VINYL ACETATE	3.87	43	996644	148.4800388 ppb	98
26) DI-ISOPROPYL ETHER	3.64	45	334183	23.9005676 ppb	100
27) 2,2-DICHLOROPROPANE	4.14	77	162861	23.7722503 ppb	100
28) CIS-1,2-DICHLOROETHENE	4.08	96	110116	23.8134522 ppb	96
29) 2-BUTANONE (MEK)	4.38	43	375570	121.3037264 ppb	99
30) BROMOCHLOROMETHANE	4.20	130	54258	24.9494613 ppb	99
31) TETRAHYDROFURAN	4.33	42	37130	21.8961683 ppb	99
32) CHLOROFORM	4.22	83	170420	24.4979079 ppb	98
34) 1,1,1-TRICHLOROETHANE	4.36	97	137787	23.0369755 ppb	100
35) CARBON TETRACHLORIDE	4.33	117	118178	23.2113757 ppb	99
36) 1,1-DICHLOROPROPENE	4.42	75	146070	24.1957785 ppb	98
37) 2,2,4-TRIMETHYLPENTANE	4.47	57	601059	24.3703272 ppb	97
38) HEPTANE	4.50	71	127653	23.2775040 ppb #	91

(#) = qualifier out of range (m) = manual integration

Data File : C:\MSDCHEM\1\DATA\101815\1018 34.D Vial: 34
Acq On : 18 Oct 2015 9:04 pm Operator: 522
Sample : LCS 1x WG822800 Inst : VOCMS8
Misc : water IS/SURR15H19728/spk15J11487 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 09:02:15 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	BENZENE	4.57	78	435714	23.2688921	ppb		99
40)	1,2-DICHLOROETHANE	4.68	62	128107	23.3971038	ppb		100
42)	TRICHLOROETHENE	4.90	130	100824	22.4887888	ppb	#	66
43)	1,2-DICHLOROPROPANE	5.22	62	79656	23.5782062	ppb		99
44)	DIBROMOMETHANE	5.17	93	55549	24.3763328	ppb		99
45)	BROMODICHLOROMETHANE	5.24	83	131881	23.8124199	ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.54	63	244393	104.9811509	ppb		100
48)	CIS-1,3-DICHLOROPROPENE	5.62	75	180042	24.7040554	ppb		99
49)	4-METHYL-2-PENTANONE (MIBK	5.97	43	527456	119.6679230	ppb		100
51)	TOLUENE	5.77	91	470101	23.0547478	ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	6.02	75	154240	24.5384963	ppb		98
54)	1,1,2-TRICHLOROETHANE	6.13	97	87030	24.0746147	ppb		96
55)	TETRACHLOROETHENE	6.04	164	74319	23.4123996	ppb		94
56)	1,3-DICHLOROPROPANE	6.32	76	162265	23.6457433	ppb		97
57)	2-HEXANONE	6.52	58	284664	121.8243322	ppb		95
58)	CHLORODIBROMOMETHANE	6.27	129	84093	23.0782691	ppb		99
59)	1,2-DIBROMOETHANE	6.45	107	85970	24.7845001	ppb		95
60)	CHLOROBENZENE	6.79	112	283052	25.3745022	ppb		100
61)	1,1,1,2-TETRACHLOROETHANE	6.82	133	85633	24.7496877	ppb	#	99
62)	ETHYLBENZENE	6.78	106	161952	24.5951316	ppb		99
63)	M&P-XYLENE	6.87	106	397064	48.1034053	ppb		98
64)	O-XYLENE	7.18	106	194042	25.1232185	ppb		95
65)	STYRENE	7.22	104	316185	25.5485223	ppb		97
66)	BROMOFORM	7.27	173	52374	23.4638007	ppb		98
67)	ISOPROPYLBENZENE	7.40	105	488544	23.7723091	ppb		98
69)	BROMOBENZENE	7.73	77	225497	25.4187398	ppb		96
70)	1,1,2,2-TETRACHLOROETHANE	7.75	83	124397	25.4444495	ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.87	110	34148	24.0066894	ppb		98
72)	TRANS-1,4-DICHLORO-2-BUTEN	7.88	53	35495	23.2733088	ppb		93
73)	N-PROPYLBENZENE	7.70	91	605175	25.0775812	ppb		98
74)	4-ETHYLTOLUENE	7.78	105	480459	24.3345472	ppb		98
75)	2-CHLOROTOLUENE	7.85	91	386227	24.5413400	ppb		98
76)	4-CHLOROTOLUENE	7.97	91	352227	24.4789081	ppb		99
77)	1,3,5-TRIMETHYLBENZENE	7.84	105	427756	24.9563504	ppb		95
78)	TERT-BUTYLBENZENE	8.09	119	347407	25.0555119	ppb		96
79)	1,2,4-TRIMETHYLBENZENE	8.14	105	401524	25.5190964	ppb		98
80)	SEC-BUTYLBENZENE	8.23	105	557116	25.5305093	ppb		100
81)	1,3-DICHLOROBENZENE	8.43	146	205471	25.0050548	ppb		99
82)	P-ISOPROPYLTOLUENE	8.32	119	462707	25.9801605	ppb		99
83)	DICYCLOPENTADIENE	8.35	66	496668	24.0840830	ppb		100
85)	1,4-DICHLOROBENZENE	8.49	146	207899	24.2078610	ppb		99
86)	1,2,3-TRIMETHYLBENZENE	8.49	105	419922	25.9067081	ppb		100
87)	1,2-DICHLOROBENZENE	8.83	146	191047	24.5210005	ppb		99
88)	N-BUTYLBENZENE	8.66	91	421580	26.3466332	ppb		100
89)	1,2-DIBROMO-3-CHLOROPROPAN	9.48	157	21202	21.9154372	ppb		99
90)	1,2,4-TRICHLOROBENZENE	10.03	180	123887	26.5213250	ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	9.99	225	66681	25.1957817	ppb		98
92)	NAPHTHALENE	10.31	128	337217	25.3099543	ppb		99
93)	1,2,3-TRICHLOROBENZENE	10.46	180	118760	26.3214627	ppb		97
94)	1-METHYLNAPHTHALENE	11.18	142	184281	27.8419694	ppb		99
95)	2-METHYLNAPHTHALENE	11.32	142	171967	26.5327693	ppb		98
100)	METHYL ACETATE	3.43	43	176518	44.8803486	ppb	#	67
101)	ACETONITRILE	3.64	41	50902	71.8476017	ppb	#	38
104)	CHLOROPRENE	3.78	53	207752	25.5532193	ppb	#	22

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018 34.D Vial: 34
Acq On : 18 Oct 2015 9:04 pm Operator: 522
Sample : LCS 1x WG822800 Inst : VOCMS8
Misc : water IS/SURR15H19728/spk15J11487 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 09:02:15 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

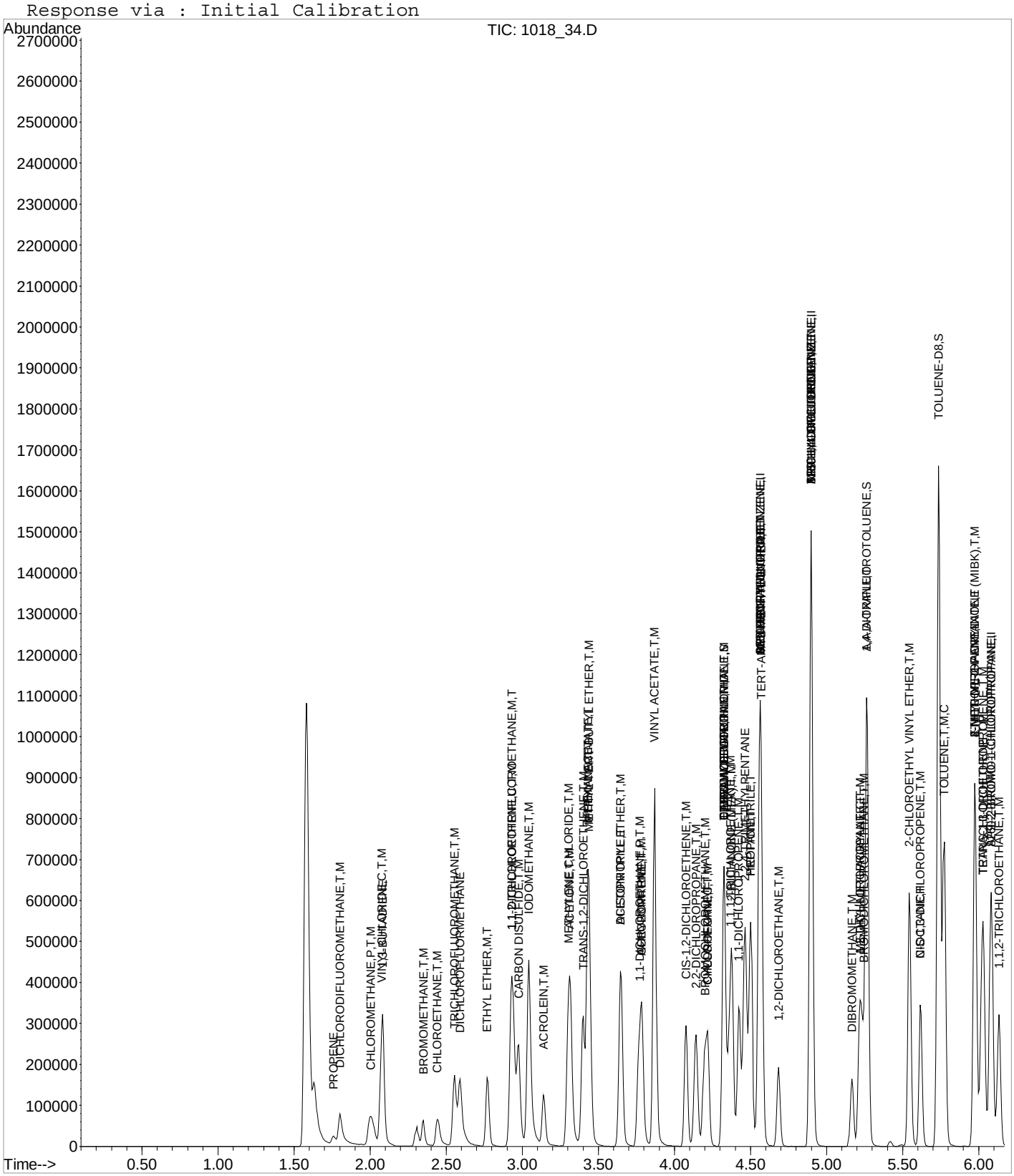
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
106)	PROPIONITRILE	4.50	54	1564	1.7518202	ppb	#	1
107)	ETHYL ACETATE	4.33	43	8470	1.6436628	ppb	#	78
108)	METHACRYLONITRILE	4.56	67	1206	0.5150273	ppb	#	1
109)	CYCLOHEXANE	4.22	84	6209	0.4912137	ppb	#	6
113)	TERT-AMYL METHYL ETHER	4.58	73	7625	0.4607057	ppb	#	1
116)	METHYL CYCLOHEXANE	4.90	83	10777	0.6945819	ppb	#	44
117)	2-NITROPROPANE	5.97	43	527836	358.5201960	ppb	#	42
118)	METHYL METHACRYLATE	5.21	41	54580	12.3313692	ppb	#	12
119)	1,4-DIOXANE	5.26	88	4368	64.0117160	ppb	#	23
120)	N-OCTANE	5.62	85	2332	0.3969206	ppb	#	24
123)	ETHYL METHACRYLATE	5.97	69	3817	0.7208362	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.66	53	1005	0.6884011	ppb	#	1
126)	PENTACHLOROETHANE	8.14	117	13695	5.8576843	ppb	#	15
127)	HEXACHLOROETHANE	8.66	117	3451	1.0873059	ppb	#	63

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018 34.D Vial: 34
Acq On : 18 Oct 2015 9:04 pm Operator: 522
Sample : LCS 1x WG822800 Inst : VOCMS8
Misc : water IS/SURR15H19728/spk15J11487 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 9:02 2015 Quant Results File: V808J11O.RES

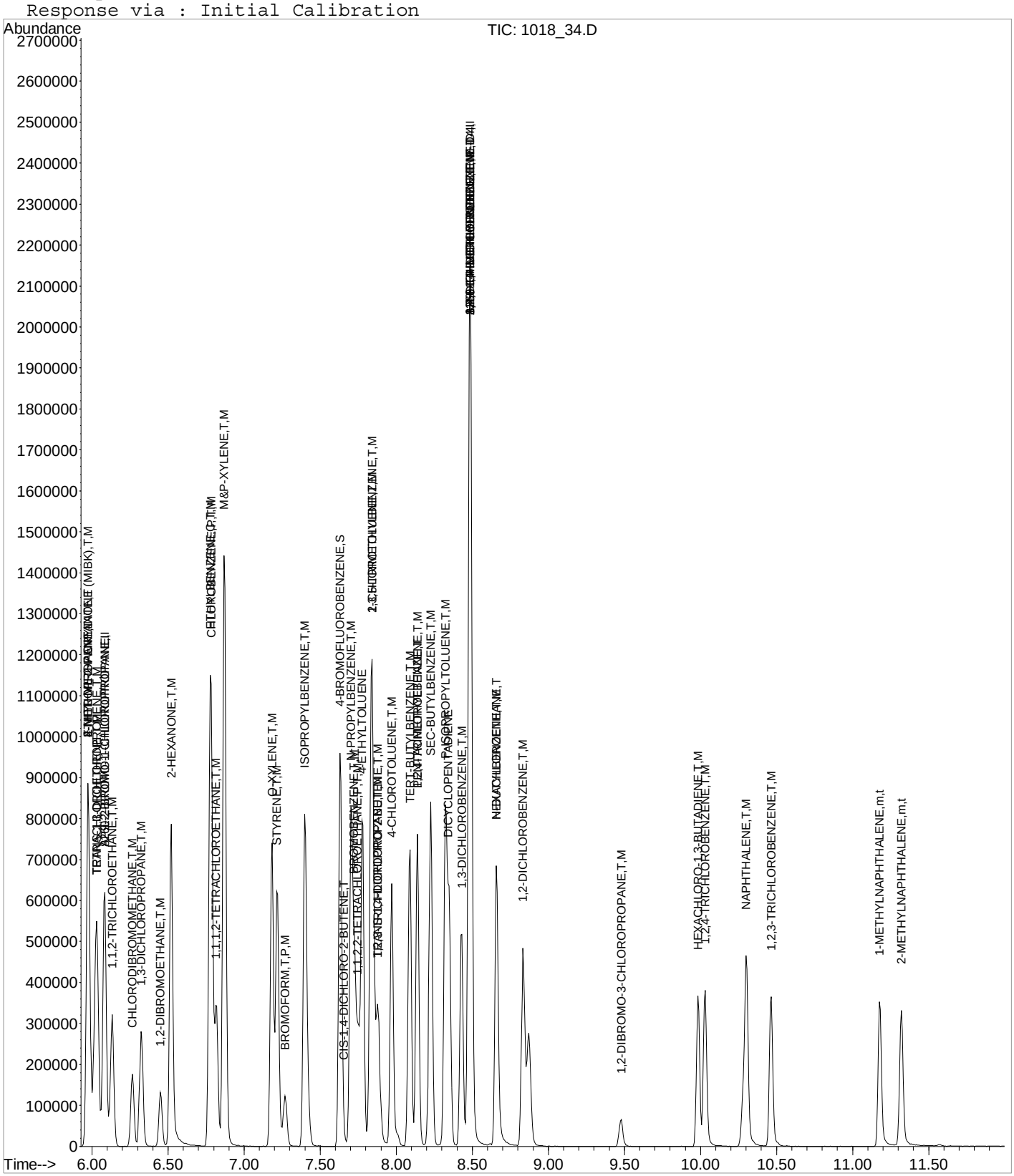
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018_34.D Vial: 34
Acq On : 18 Oct 2015 9:04 pm Operator: 522
Sample : LCS 1x WG822800 Inst : VOCMS8
Misc : water IS/SURR15H19728/spk15J11487 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 9:02 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018 35.D Vial: 35
Acq On : 18 Oct 2015 9:28 pm Operator: 522
Sample : LCSD 1x WG822800 Inst : VOCMS8
Misc : water IS/SURR15H19728/spk15J11487 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 09:02:18 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.56	168	413417	40.00	ppb	-0.01
41) 8260-1,4-DIFLUOROBENZENE	4.90	114	752983	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.08	79	126839	40.00	ppb	-0.01
84) 8260-1,4-DICHLOROBENZENE-D	8.48	152	303914	40.00	ppb	-0.01
96) AP9-PENTAFLUOROBENZENE	4.56	168	413417	40.00	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.90	114	752983	40.00	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.08	79	126839	40.00	ppb	-0.01
128) AP9-1,4-DICHLOROBENZENE-D4	8.48	152	303914	40.00	ppb	-0.01
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.33	111	202497	39.2010651	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 98.00%			
46) A,A,A-TRIFLUOROTOLUENE	5.27	146	404219	41.9466422	ppb	-0.01
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.87%			
50) TOLUENE-D8	5.74	98	954051	42.1770084	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.44%			
68) 4-BROMOFLUOROBENZENE	7.63	95	329615	39.1726761	ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 97.93%			
Target Compounds						Qvalue
3) PROPENE	1.76	41	13633	10.2856622	ppb	97
4) DICHLORODIFLUOROMETHANE	1.80	85	93948	23.0229614	ppb	99
5) CHLOROMETHANE	2.00	50	117478	18.6856302	ppb	98
6) VINYL CHLORIDE	2.07	62	136626	23.3880859	ppb	99
7) 1,3-BUTADIENE	2.08	39	89957	23.9412271	ppb	97
8) BROMOMETHANE	2.35	94	36269	28.3190418	ppb	97
9) CHLOROETHANE	2.44	64	77892	38.2818177	ppb	97
10) TRICHLOROFLUOROMETHANE	2.56	101	139823	26.0739134	ppb	100
11) DICHLOROFLUORMETHANE	2.59	67	192505	25.0349268	ug/l	99
12) ETHYL ETHER	2.77	59	90687	24.8401758	ppb	98
13) ACROLEIN	3.14	56	97694	109.1982350	ppb	100
14) 1,1-DICHLOROETHENE	2.93	96	91299	23.8053943	ppb	99
15) 1,1,2-TRICHLOROTRIFLUOROET	2.94	101	90884	23.5061786	ppb	99
16) ACETONE	3.31	43	334163	122.8925673	ppb	99
17) IODOMETHANE	3.04	142	540833	113.3728300	ppb	99
18) CARBON DISULFIDE	2.97	76	324105	22.3975973	ppb	100
19) METHYLENE CHLORIDE	3.30	84	108544	25.3362433	ppb	97
20) ACRYLONITRILE	3.79	53	218996	129.2984661	ppb	97
21) n-HEXANE	3.43	56	110065	23.3416870	ppb	99
22) TRANS-1,2-DICHLOROETHENE	3.40	96	102768	23.3428496	ppb	98
23) METHYL TERT-BUTYL ETHER	3.45	73	304498	23.9342560	ppb	97
24) 1,1-DICHLOROETHANE	3.77	63	191482	24.1399388	ppb	97
25) VINYL ACETATE	3.87	43	1006588	149.3390400	ppb	100
26) DI-ISOPROPYL ETHER	3.65	45	336089	23.9371119	ppb	99
27) 2,2-DICHLOROPROPANE	4.14	77	160473	23.3264559	ppb	99
28) CIS-1,2-DICHLOROETHENE	4.08	96	109153	23.5072160	ppb	93
29) 2-BUTANONE (MEK)	4.38	43	379549	122.0800478	ppb	100
30) BROMOCHLOROMETHANE	4.19	130	55651	25.4837863	ppb	99
31) TETRAHYDROFURAN	4.32	42	36548	21.4634920	ppb	96
32) CHLOROFORM	4.22	83	174273	24.9477932	ppb	100
34) 1,1,1-TRICHLOROETHANE	4.36	97	140808	23.4443468	ppb	98
35) CARBON TETRACHLORIDE	4.33	117	120776	23.6231865	ppb	98
36) 1,1-DICHLOROPROPENE	4.43	75	140976	23.2550537	ppb	100
37) 2,2,4-TRIMETHYLPENTANE	4.47	57	598462	24.1643116	ppb	96
38) HEPTANE	4.50	71	130398	23.6793570	ppb #	92

(#) = qualifier out of range (m) = manual integration

Data File : C:\MSDCHEM\1\DATA\101815\1018 35.D Vial: 35
Acq On : 18 Oct 2015 9:28 pm Operator: 522
Sample : LCSD 1x WG822800 Inst : VOCMS8
Misc : water IS/SURR15H19728/spk15J11487 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 09:02:18 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	BENZENE	4.57	78	443945	23.6100524	ppb		100
40)	1,2-DICHLOROETHANE	4.69	62	126716	23.0469939	ppb		98
42)	TRICHLOROETHENE	4.91	130	102911	23.0844933	ppb	#	66
43)	1,2-DICHLOROPROPANE	5.22	62	79595	23.6937859	ppb		100
44)	DIBROMOMETHANE	5.17	93	53495	23.6081373	ppb		98
45)	BROMODICHLOROMETHANE	5.24	83	132106	23.9883429	ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.55	63	251201	108.5176388	ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.62	75	182436	25.1745299	ppb		98
49)	4-METHYL-2-PENTANONE (MIBK	5.98	43	542489	123.7766879	ppb		100
51)	TOLUENE	5.78	91	476741	23.5130035	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	6.02	75	151184	24.1887355	ppb		97
54)	1,1,2-TRICHLOROETHANE	6.14	97	88020	23.5957835	ppb		97
55)	TETRACHLOROETHENE	6.04	164	74916	22.8709038	ppb		94
56)	1,3-DICHLOROPROPANE	6.32	76	162421	22.9368076	ppb		99
57)	2-HEXANONE	6.52	58	291594	120.9324221	ppb		99
58)	CHLORODIBROMOMETHANE	6.27	129	87528	23.2783968	ppb		97
59)	1,2-DIBROMOETHANE	6.45	107	86009	24.0292276	ppb		99
60)	CHLOROBENZENE	6.79	112	276261	24.0001280	ppb		97
61)	1,1,1,2-TETRACHLOROETHANE	6.82	133	83617	23.4199424	ppb	#	99
62)	ETHYLBENZENE	6.78	106	164925	24.2723599	ppb		96
63)	M&P-XYLENE	6.87	106	392318	46.0591818	ppb		97
64)	O-XYLENE	7.18	106	192806	24.1914976	ppb		96
65)	STYRENE	7.22	104	306170	23.9745152	ppb		87
66)	BROMOFORM	7.27	173	53440	23.2012692	ppb		97
67)	ISOPROPYLBENZENE	7.40	105	500161	23.5852337	ppb		99
69)	BROMOBENZENE	7.73	77	221808	24.2299841	ppb		98
70)	1,1,2,2-TETRACHLOROETHANE	7.75	83	123232	24.4269545	ppb		98
71)	1,2,3-TRICHLOROPROPANE	7.88	110	35201	23.9819602	ppb		98
72)	TRANS-1,4-DICHLORO-2-BUTEN	7.89	53	35064	22.3296094	ppb		92
73)	N-PROPYLBENZENE	7.70	91	595369	23.9085677	ppb		98
74)	4-ETHYLTOLUENE	7.78	105	490441	24.0722332	ppb		100
75)	2-CHLOROTOLUENE	7.85	91	392134	24.1464237	ppb		99
76)	4-CHLOROTOLUENE	7.97	91	348924	23.4997323	ppb		100
77)	1,3,5-TRIMETHYLBENZENE	7.84	105	405877	22.9478542	ppb		99
78)	TERT-BUTYLBENZENE	8.09	119	341036	23.8356839	ppb		99
79)	1,2,4-TRIMETHYLBENZENE	8.14	105	394814	24.3169445	ppb		98
80)	SEC-BUTYLBENZENE	8.23	105	544553	24.1833620	ppb		99
81)	1,3-DICHLOROBENZENE	8.43	146	201024	23.7076148	ppb		99
82)	P-ISOPROPYLTOLUENE	8.33	119	450607	24.5186396	ppb		99
83)	DICYCLOPENTADIENE	8.35	66	490283	23.0395210	ppb		100
85)	1,4-DICHLOROBENZENE	8.50	146	198214	22.7991458	ppb		95
86)	1,2,3-TRIMETHYLBENZENE	8.49	105	391249	23.8438883	ppb		97
87)	1,2-DICHLOROBENZENE	8.84	146	192625	24.4225412	ppb		99
88)	N-BUTYLBENZENE	8.66	91	415289	25.6375067	ppb		99
89)	1,2-DIBROMO-3-CHLOROPROPAN	9.48	157	21587	22.0417379	ppb		97
90)	1,2,4-TRICHLOROBENZENE	10.03	180	124495	26.3270153	ppb		97
91)	HEXACHLORO-1,3-BUTADIENE	9.99	225	66124	24.6811326	ppb		98
92)	NAPHTHALENE	10.30	128	337751	25.0414099	ppb		100
93)	1,2,3-TRICHLOROBENZENE	10.47	180	113296	24.8047379	ppb		97
94)	1-METHYLNAPHTHALENE	11.18	142	189828	28.3308692	ppb		98
95)	2-METHYLNAPHTHALENE	11.32	142	172695	26.3207018	ppb		98
100)	METHYL ACETATE	3.43	43	179020	45.3396734	ppb	#	67
101)	ACETONITRILE	3.65	41	49455	69.5340054	ppb	#	38
104)	CHLOROPRENE	3.79	53	219138	26.8489752	ppb	#	22

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018 35.D Vial: 35
Acq On : 18 Oct 2015 9:28 pm Operator: 522
Sample : LCSD 1x WG822800 Inst : VOCMS8
Misc : water IS/SURR15H19728/spk15J11487 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 09:02:18 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

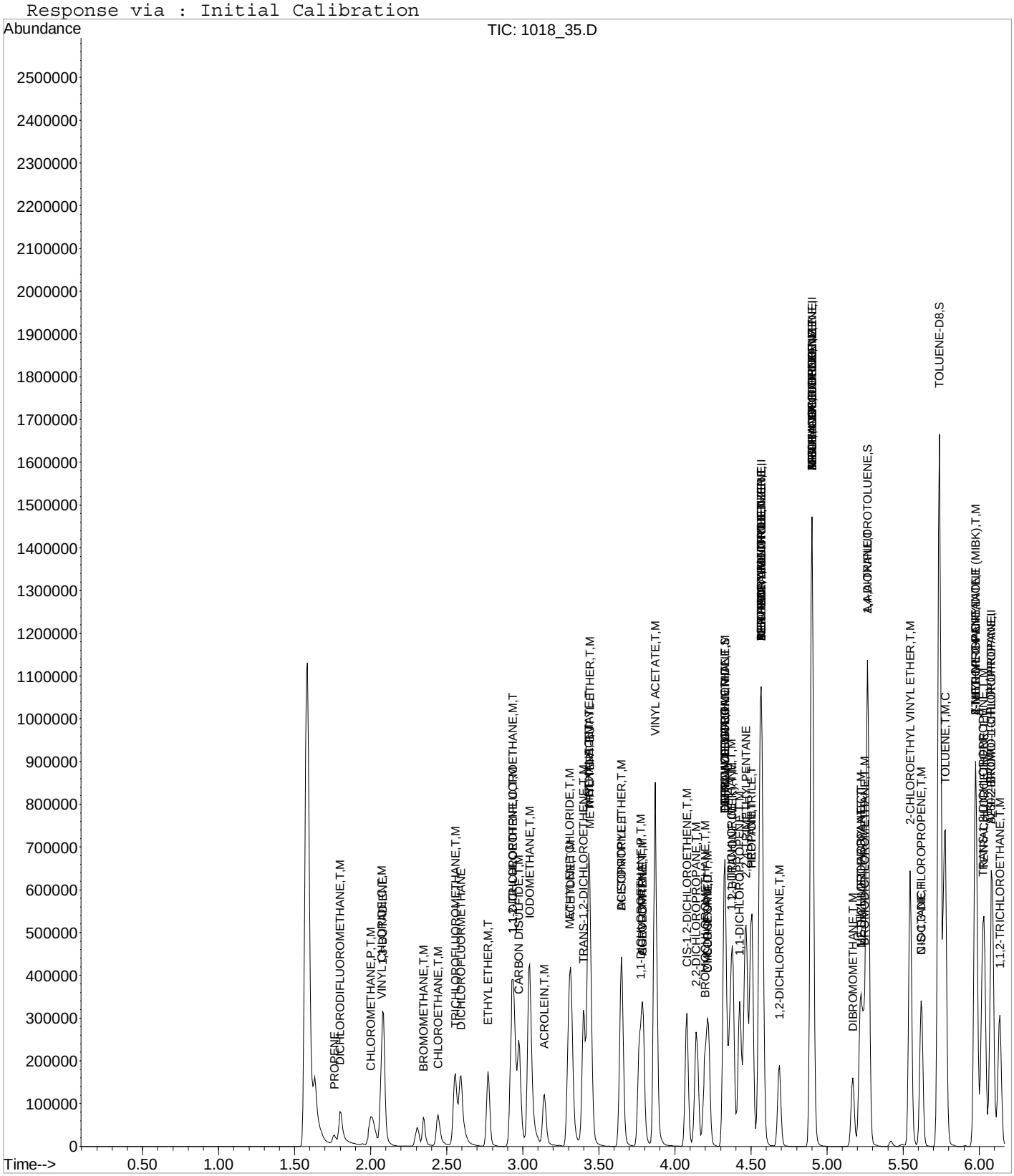
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
106)	PROPIONITRILE	4.50	54	1720	1.9190702	ppb	#	1
107)	ETHYL ACETATE	4.32	43	8338	1.6117616	ppb	#	80
108)	METHACRYLONITRILE	4.57	67	963	0.4096555	ppb	#	1
109)	CYCLOHEXANE	4.22	84	6598	0.5199609	ppb	#	2
113)	TERT-AMYL METHYL ETHER	4.57	73	7615	0.4583141	ppb	#	1
115)	N-BUTANOL	4.89	56	13555	65.0168113	ppb	#	23
116)	METHYL CYCLOHEXANE	4.90	83	9883	0.6405762	ppb	#	44
117)	2-NITROPROPANE	5.98	43	546192	373.0923615	ppb	#	42
118)	METHYL METHACRYLATE	5.22	41	54493	12.3815465	ppb	#	12
119)	1,4-DIOXANE	5.27	88	4473	65.9222684	ppb	#	28
120)	N-OCTANE	5.62	85	2297	0.3931809	ppb	#	25
123)	ETHYL METHACRYLATE	5.98	69	3901	0.7139257	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.66	53	1230	0.8164757	ppb	#	1
126)	PENTACHLOROETHANE	8.14	117	13267	5.4991977	ppb	#	14

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018 35.D Vial: 35
Acq On : 18 Oct 2015 9:28 pm Operator: 522
Sample : LCSD 1x WG822800 Inst : VOCMS8
Misc : water IS/SURR15H19728/spk15J11487 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 9:02 2015 Quant Results File: V808J11O.RES

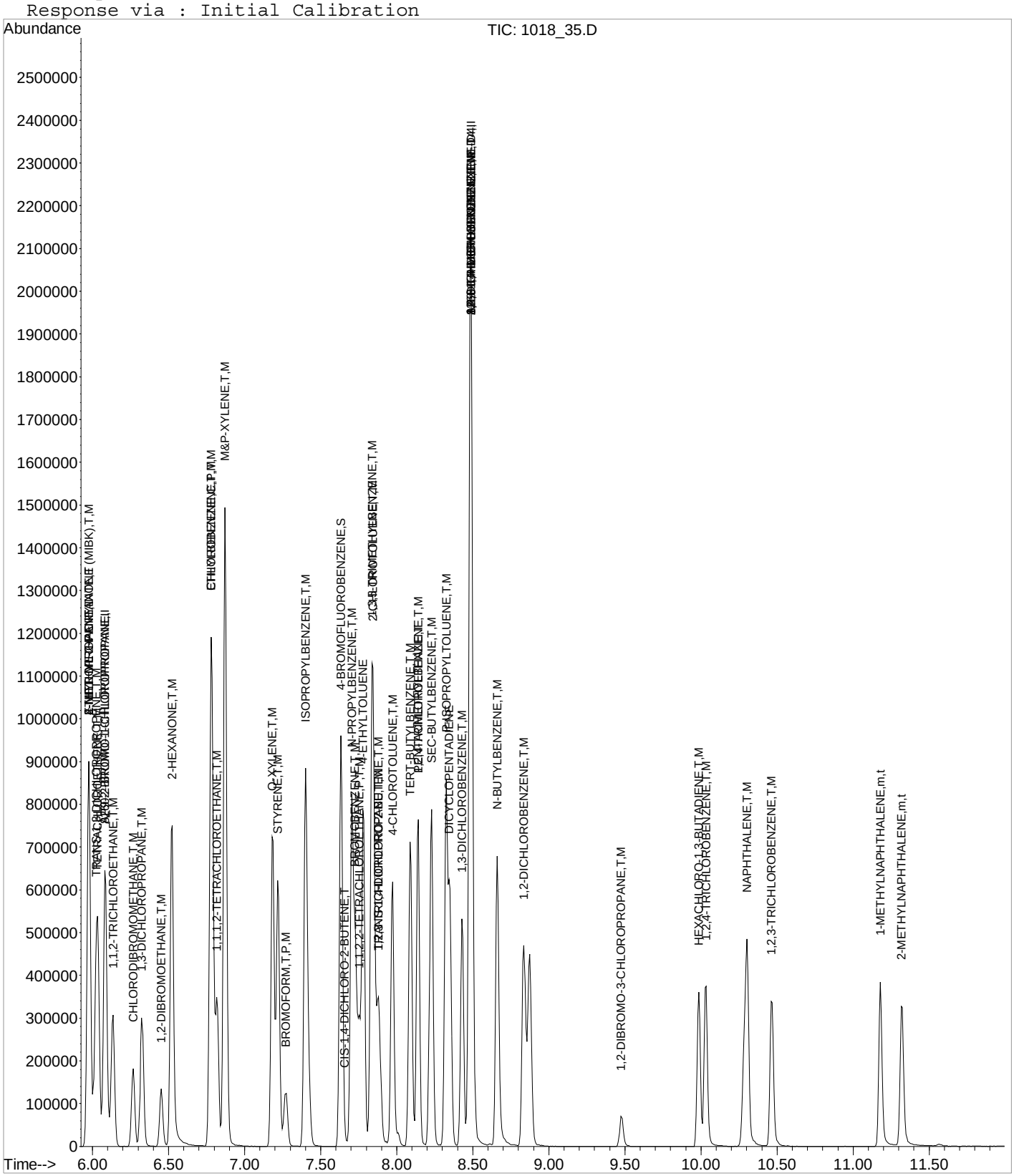
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018_35.D Vial: 35
Acq On : 18 Oct 2015 9:28 pm Operator: 522
Sample : LCSD 1x WG822800 Inst : VOCMS8
Misc : water IS/SURR15H19728/spk15J11487 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 9:02 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018 40.D Vial: 40
Acq On : 18 Oct 2015 11:27 pm Operator: 522
Sample : BLANK 1x WG822800 Inst : VOCMS8
Misc : water IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 09:02:33 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.56	168	381306	40.00	ppb	-0.02
41) 8260-1,4-DIFLUOROBENZENE	4.90	114	668087	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.09	79	107902	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.49	152	253520	40.00	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.56	168	381306	40.00	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.90	114	668087	40.00	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.09	79	107902	40.00	ppb	0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.49	152	253520	40.00	ppb	0.00

System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.33	111	180849	37.9585905	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 94.90%			
46) A,A,A-TRIFLUOROTOLUENE	5.27	146	354545	41.4671315	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.67%			
50) TOLUENE-D8	5.74	98	841247	41.9160027	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.79%			
68) 4-BROMOFLUOROBENZENE	7.64	95	288227	40.2656070	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 100.66%			

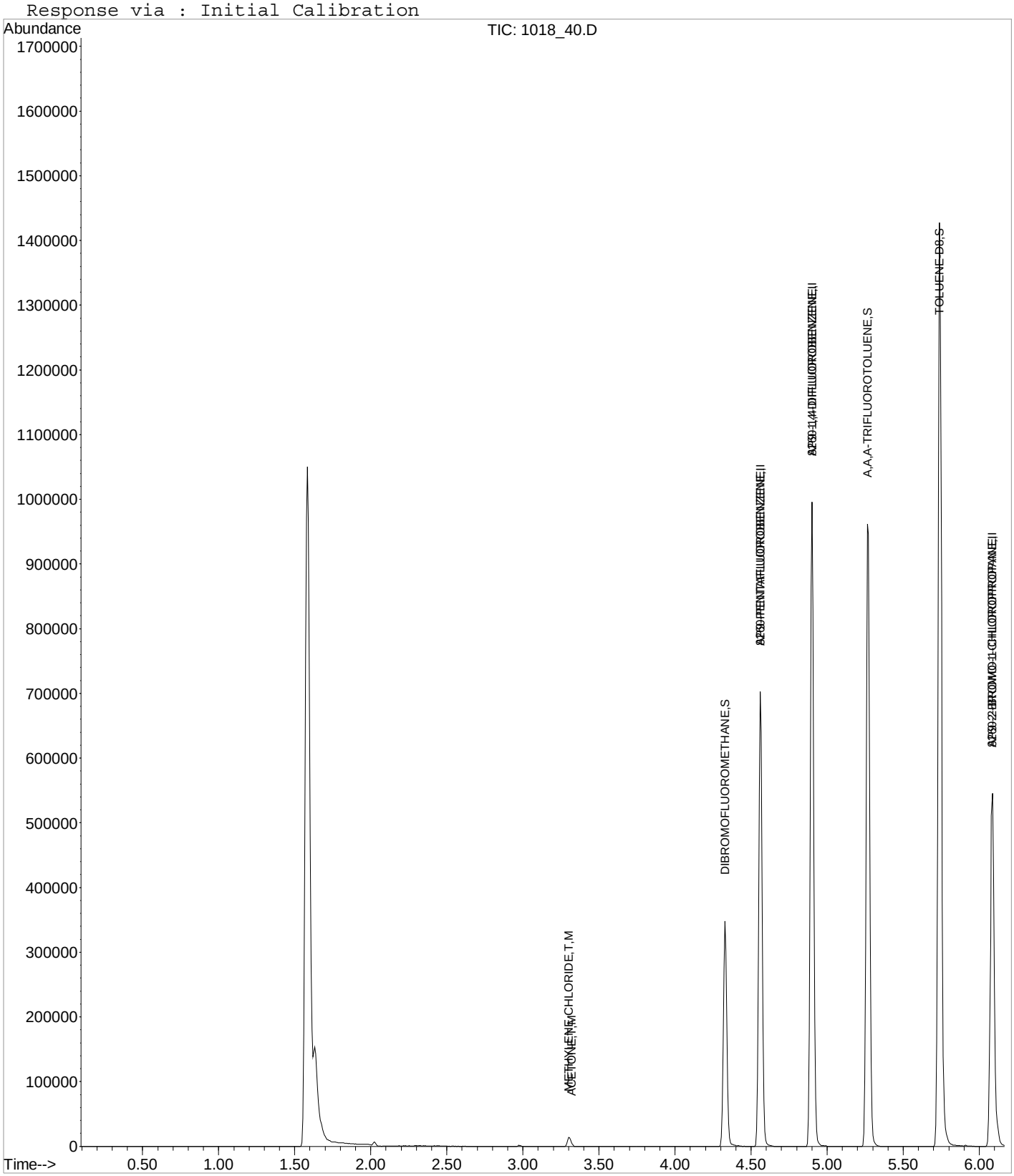
Target Compounds						Qvalue
16) ACETONE	3.32	43	764	0.3046318	ppb #	39
19) METHYLENE CHLORIDE	3.30	84	6997	1.7707733	ppb	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018 40.D Vial: 40
Acq On : 18 Oct 2015 11:27 pm Operator: 522
Sample : BLANK 1x WG822800 Inst : VOCMS8
Misc : water IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 9:31 2015 Quant Results File: V808J11O.RES

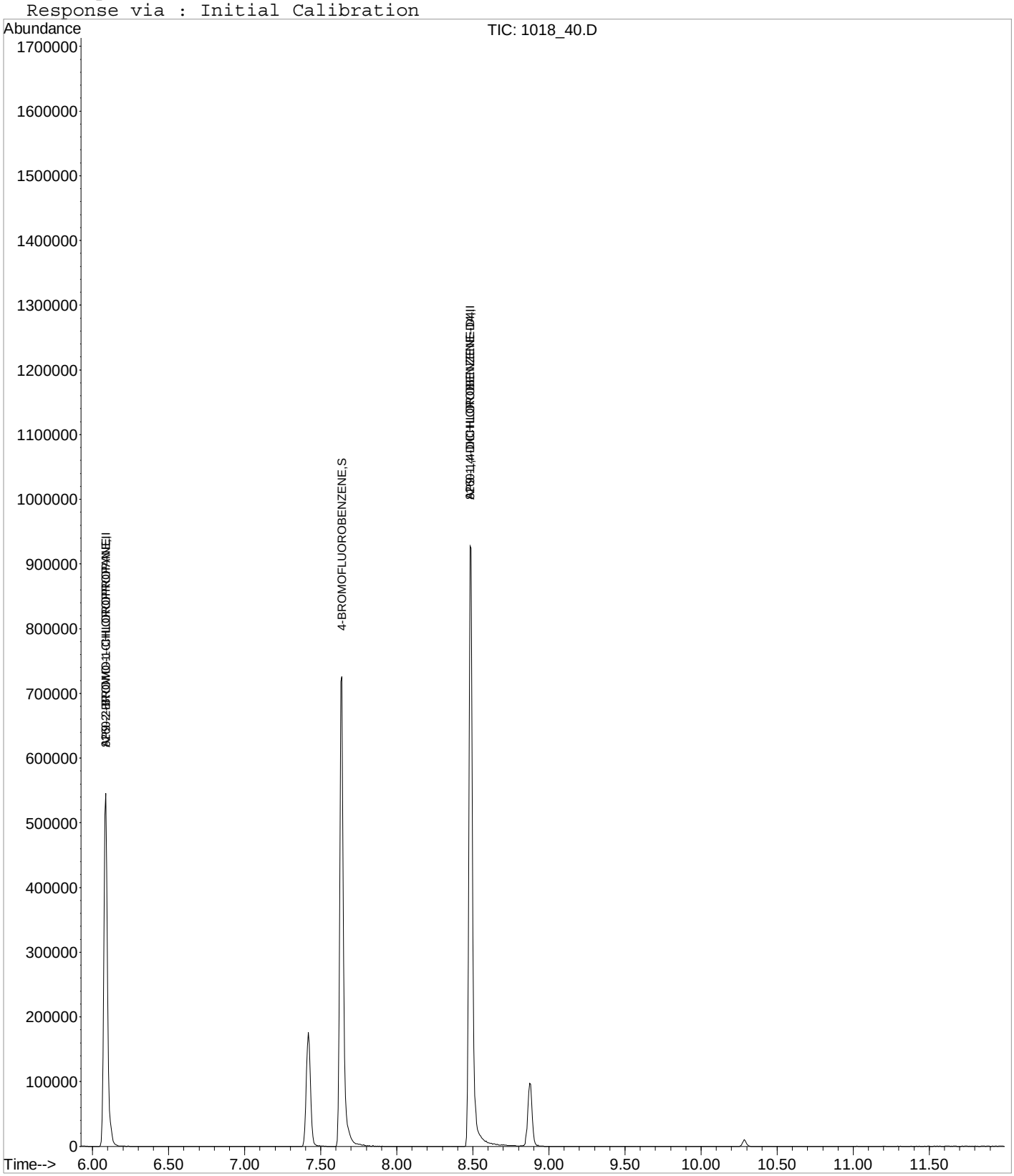
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration

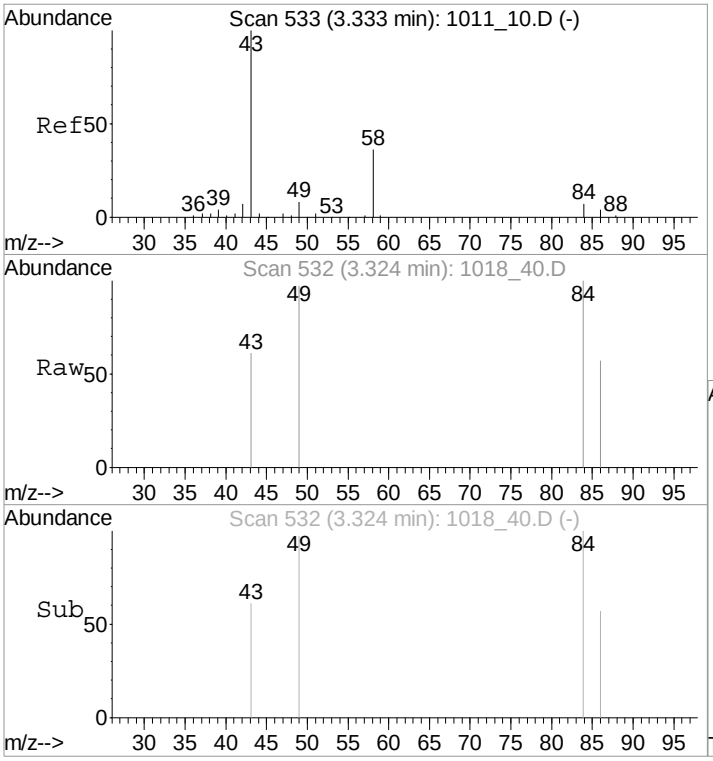


Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018_40.D Vial: 40
Acq On : 18 Oct 2015 11:27 pm Operator: 522
Sample : BLANK 1x WG822800 Inst : VOCMS8
Misc : water IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 9:31 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration

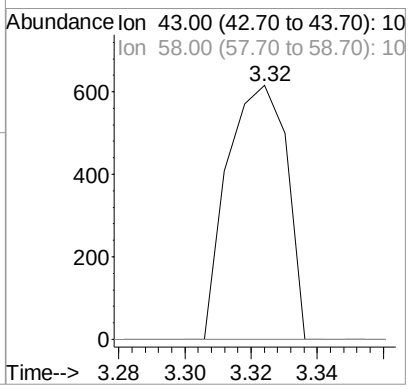


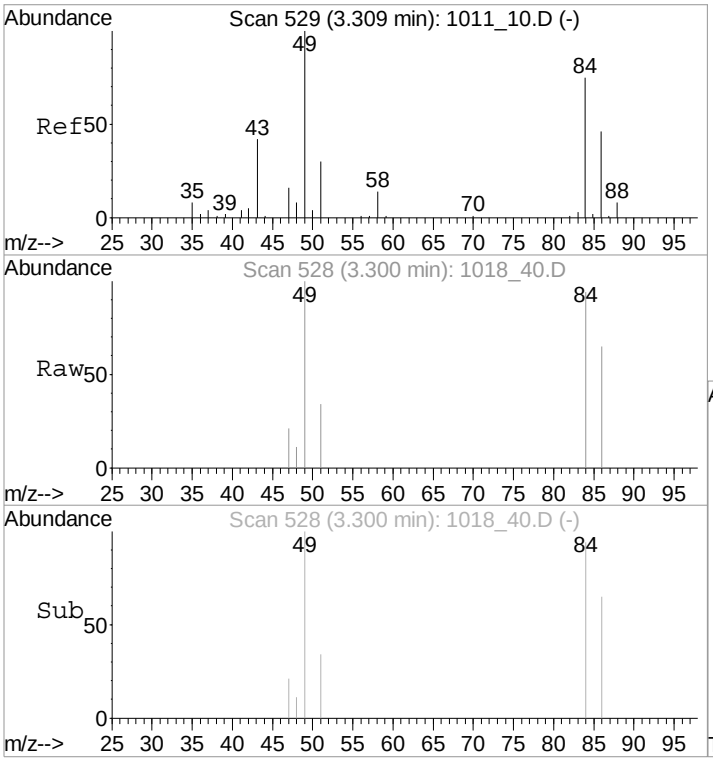


#16
ACETONE
Concen: 0.3046318 ppb
RT: 3.32 min Scan# 532
Delta R.T. -0.01 min
Lab File: 1018_40.D
Acq: 18 Oct 2015 11:27 pm

Tgt Ion: 43 Resp: 764

Ion	Ratio	Lower	Upper
43	100		
58	0.0	28.6	43.0#

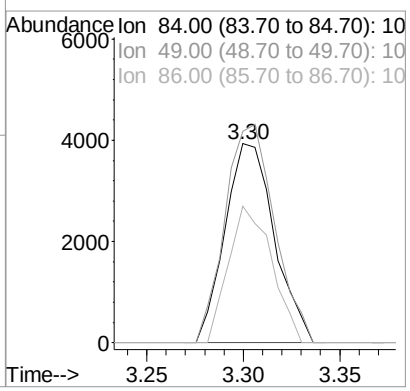




#19
METHYLENE CHLORIDE
Concen: 1.7707733 ppb
RT: 3.30 min Scan# 528
Delta R.T. -0.01 min
Lab File: 1018_40.D
Acq: 18 Oct 2015 11:27 pm

Tgt Ion: 84 Resp: 6997

Ion	Ratio	Lower	Upper
84	100		
49	110.2	101.5	152.3
86	60.2	50.6	75.8



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018 41.D Vial: 41
Acq On : 18 Oct 2015 11:51 pm Operator: 522
Sample : MS 1x WG822800 L794661-01 Inst : VOCMS8
Misc : water IS/SURR15H19728/spk15J11487 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 09:02:36 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.56	168	392790	40.00	ppb		-0.02
41) 8260-1,4-DIFLUOROBENZENE	4.90	114	733629	40.00	ppb		0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.09	79	125897	40.00	ppb		0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.48	152	284664	40.00	ppb		-0.02
96) AP9-PENTAFLUOROBENZENE	4.56	168	392790	40.00	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.90	114	733629	40.00	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.09	79	125897	40.00	ppb		0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.48	152	284664	40.00	ppb		-0.01
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.33	111	204349	41.6370258	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 104.09%				
46) A,A,A-TRIFLUOROTOLUENE	5.27	146	379947	40.4680408	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.17%				
50) TOLUENE-D8	5.74	98	936920	42.5123753	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 106.28%				
68) 4-BROMOFLUOROBENZENE	7.63	95	331669	39.7117096	ppb		-0.02
Spiked Amount 40.000	Range 80 - 120		Recovery = 99.28%				
Target Compounds							Qvalue
3) PROPENE	1.76	41	31894	25.3266484	ppb		87
4) DICHLORODIFLUOROMETHANE	1.80	85	69323	17.8804689	ppb		97
5) CHLOROMETHANE	2.02	50	114903	19.2785517	ppb	#	92
6) VINYL CHLORIDE	2.07	62	100831	18.1670039	ppb		99
7) 1,3-BUTADIENE	2.08	39	106187	29.7447760	ppb	#	66
8) BROMOMETHANE	2.35	94	29644	24.3617053	ppb		99
9) CHLOROETHANE	2.45	64	61862	31.5458360	ppb		98
10) TRICHLOROFLUOROMETHANE	2.56	101	115498	22.6688754	ppb		97
11) DICHLOROFLUORMETHANE	2.59	67	181506	24.8440964	ug/l		98
12) ETHYL ETHER	2.78	59	78224	22.5516103	ppb		99
13) ACROLEIN	3.14	56	104699	123.1737516	ppb		89
14) 1,1-DICHLOROETHENE	2.93	96	75923	20.8358215	ppb		98
15) 1,1,2-TRICHLOROTRIFLUOROET	2.94	101	80692	21.9661015	ppb		99
16) ACETONE	3.32	43	190001	73.5446442	ppb		94
17) IODOMETHANE	3.04	142	430688	95.2838851	ppb		100
18) CARBON DISULFIDE	2.98	76	195975	14.2542471	ppb		99
19) METHYLENE CHLORIDE	3.31	84	91104	22.3821475	ppb		95
20) ACRYLONITRILE	3.79	53	227722	141.5109636	ppb		93
21) n-HEXANE	3.43	56	158471	35.3720891	ppb	#	76
22) TRANS-1,2-DICHLOROETHENE	3.40	96	83736	20.0187099	ppb		97
23) METHYL TERT-BUTYL ETHER	3.45	73	286005	23.6612139	ppb		81
24) 1,1-DICHLOROETHANE	3.77	63	173376	23.0051514	ppb		99
25) VINYL ACETATE	3.87	43	964018	150.5340195	ppb		98
26) DI-ISOPROPYL ETHER	3.65	45	322375	24.1661082	ppb		97
27) 2,2-DICHLOROPROPANE	4.15	77	156305	23.9137435	ppb		99
28) CIS-1,2-DICHLOROETHENE	4.08	96	108113	24.5059391	ppb		98
29) 2-BUTANONE (MEK)	4.38	43	280500	94.9593238	ppb	#	88
30) BROMOCHLOROMETHANE	4.20	130	48500	23.3754849	ppb		95
31) TETRAHYDROFURAN	4.33	42	34204	21.1417810	ppb	#	79
32) CHLOROFORM	4.22	83	182321	27.4705042	ppb		86
34) 1,1,1-TRICHLOROETHANE	4.36	97	132853	23.2814530	ppb		99
35) CARBON TETRACHLORIDE	4.33	117	104142	21.4393522	ppb		98
36) 1,1-DICHLOROPROPENE	4.42	75	123870	21.5063252	ppb		100
37) 2,2,4-TRIMETHYLPENTANE	4.47	57	841810	35.7750159	ppb	#	86
38) HEPTANE	4.50	71	129253	24.7040134	ppb	#	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018 41.D Vial: 41
Acq On : 18 Oct 2015 11:51 pm Operator: 522
Sample : MS 1x WG822800 L794661-01 Inst : VOCMS8
Misc : water IS/SURR15H19728/spk15J11487 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 09:02:36 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	BENZENE	4.58	78	3189330	178.5233994	ppb		98
40)	1,2-DICHLOROETHANE	4.69	62	116438	22.2897644	ppb	#	78
42)	TRICHLOROETHENE	4.91	130	95386	21.9609875	ppb	#	66
43)	1,2-DICHLOROPROPANE	5.22	62	76119	23.2568251	ppb		96
44)	DIBROMOMETHANE	5.17	93	52598	23.8246452	ppb		93
45)	BROMODICHLOROMETHANE	5.24	83	131268	24.4650020	ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.55	63	33885	15.0243310	ppb		94
48)	CIS-1,3-DICHLOROPROPENE	5.62	75	160616	22.7482669	ppb		96
49)	4-METHYL-2-PENTANONE (MIBK	5.98	43	503739	117.9674461	ppb		97
51)	TOLUENE	5.78	91	5591778	283.0637186	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	6.02	75	149102	24.4849648	ppb		99
54)	1,1,2-TRICHLOROETHANE	6.13	97	87167	23.5419572	ppb		87
55)	TETRACHLOROETHENE	6.04	164	72980	22.4465724	ppb		99
56)	1,3-DICHLOROPROPANE	6.33	76	154560	21.9900051	ppb		98
57)	2-HEXANONE	6.52	58	209133	87.3824391	ppb		99
58)	CHLORODIBROMOMETHANE	6.27	129	86958	23.2998450	ppb		97
59)	1,2-DIBROMOETHANE	6.45	107	79413	22.3524403	ppb		93
60)	CHLOROBENZENE	6.79	112	266066	23.2873884	ppb	#	73
61)	1,1,1,2-TETRACHLOROETHANE	6.82	133	78645	22.1921707	ppb		93
62)	ETHYLBENZENE	6.78	106	461884	68.4850626	ppb		96
63)	M&P-XYLENE	6.87	106	1326414	156.8897277	ppb		97
64)	O-XYLENE	7.19	106	498221	62.9798565	ppb		92
65)	STYRENE	7.22	104	323453	25.5173641	ppb		98
66)	BROMOFORM	7.27	173	50568	22.1186440	ppb		99
67)	ISOPROPYLBENZENE	7.40	105	591600	28.1058001	ppb		99
69)	BROMOBENZENE	7.73	77	216554	23.8330465	ppb		95
70)	1,1,2,2-TETRACHLOROETHANE	7.75	83	119752	23.9147602	ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.88	110	32684	22.4337722	ppb		99
72)	TRANS-1,4-DICHLORO-2-BUTEN	7.89	53	31247	20.1665330	ppb		98
73)	N-PROPYLBENZENE	7.70	91	752344	30.4383587	ppb		99
74)	4-ETHYLTOLUENE	7.78	105	1177247	58.2149640	ppb		100
75)	2-CHLOROTOLUENE	7.85	91	381776	23.6845081	ppb		98
76)	4-CHLOROTOLUENE	7.97	91	327608	22.2292085	ppb		100
77)	1,3,5-TRIMETHYLBENZENE	7.84	105	566232	32.2536952	ppb		99
78)	TERT-BUTYLBENZENE	8.09	119	333283	23.4681028	ppb		98
79)	1,2,4-TRIMETHYLBENZENE	8.14	105	629315	39.0500838	ppb		99
80)	SEC-BUTYLBENZENE	8.23	105	541965	24.2485175	ppb		96
81)	1,3-DICHLOROBENZENE	8.43	146	195169	23.1893308	ppb		98
82)	P-ISOPROPYLTOLUENE	8.32	119	443257	24.2991715	ppb		100
83)	DICYCLOPENTADIENE	8.35	66	470635	22.2816968	ppb		100
85)	1,4-DICHLOROBENZENE	8.50	146	202831	24.9078786	ppb		98
86)	1,2,3-TRIMETHYLBENZENE	8.49	105	441820	28.7466584	ppb		100
87)	1,2-DICHLOROBENZENE	8.84	146	175967	23.8192229	ppb		99
88)	N-BUTYLBENZENE	8.66	91	391724	25.8180656	ppb		99
89)	1,2-DIBROMO-3-CHLOROPROPAN	9.48	157	20068	21.8763969	ppb		96
90)	1,2,4-TRICHLOROBENZENE	10.03	180	119682	27.0207073	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.99	225	63527	25.3152647	ppb		99
92)	NAPHTHALENE	10.31	128	317059	25.0969173	ppb		100
93)	1,2,3-TRICHLOROBENZENE	10.47	180	113070	26.4292973	ppb		99
94)	1-METHYLNAPHTHALENE	11.18	142	170341	27.1416957	ppb		99
95)	2-METHYLNAPHTHALENE	11.32	142	156367	25.4437409	ppb		99
100)	METHYL ACETATE	3.38	43	4053	1.0803920	ppb	#	54
101)	ACETONITRILE	3.65	41	98922	146.3887956	ppb	#	39
103)	TERT-BUTYL ALCOHOL	3.48	59	3383	3.8753078	ppb	#	64

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018 41.D Vial: 41
Acq On : 18 Oct 2015 11:51 pm Operator: 522
Sample : MS 1x WG822800 L794661-01 Inst : VOCMS8
Misc : water IS/SURR15H19728/spk15J11487 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 09:02:36 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

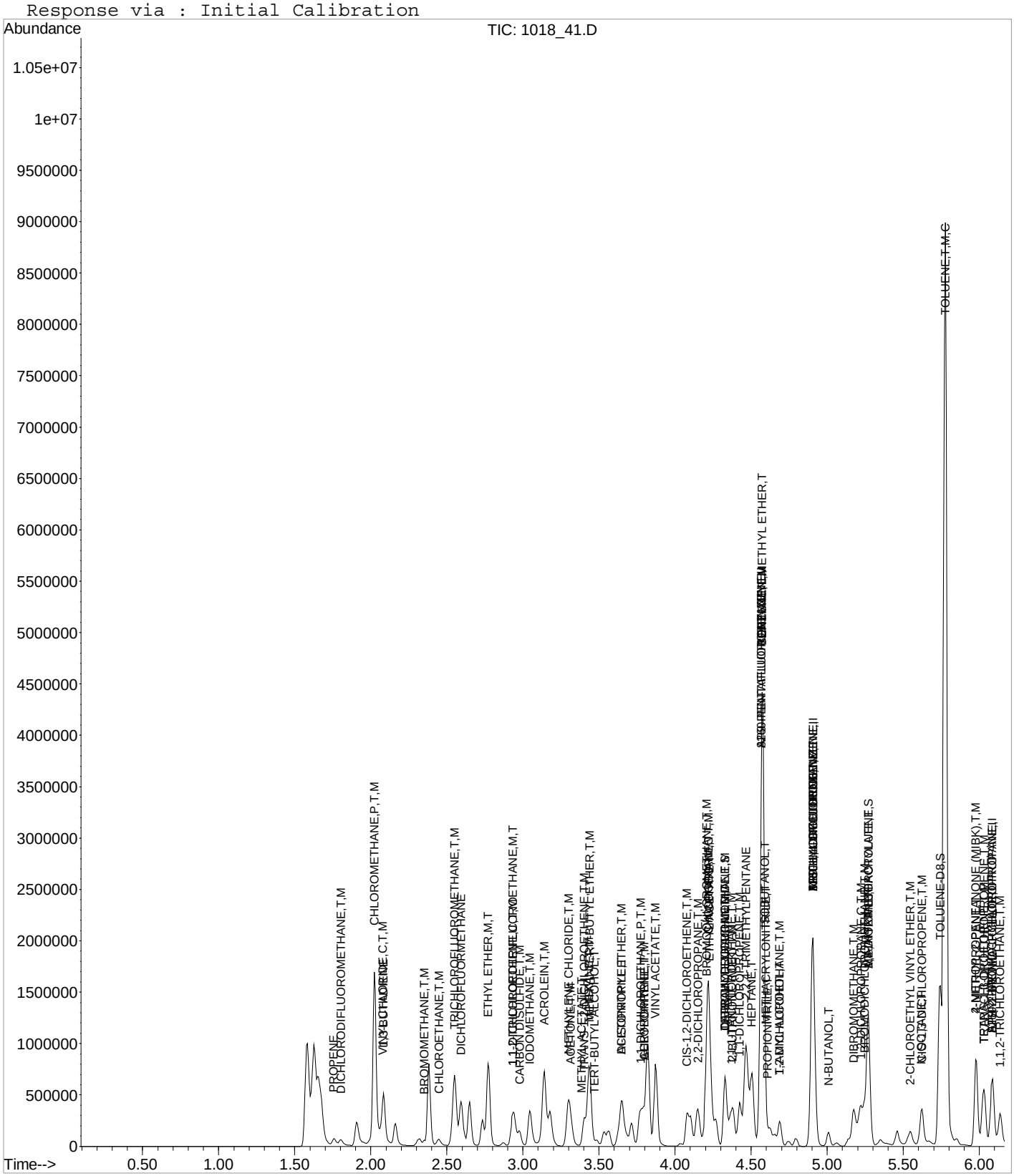
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
104)	CHLOROPRENE	3.79	53	228353	29.4472437	ppb	#	22
106)	PROPIONITRILE	4.61	54	4958	5.8223302	ppb	#	1
107)	ETHYL ACETATE	4.23	43	167011	33.9791026	ppb	#	66
108)	METHACRYLONITRILE	4.60	67	4424	1.9807769	ppb	#	1
109)	CYCLOHEXANE	4.22	84	442371	36.6921315	ppb	#	61
111)	ISOBUTANOL	4.60	43	3747	10.2283712	ppb	#	67
112)	T-AMYL ALCOHOL	4.68	59	8671	14.6383458	ppb		95
113)	TERT-AMYL METHYL ETHER	4.57	73	49555	3.1391260	ppb	#	1
115)	N-BUTANOL	5.01	56	25302	124.5631770	ppb	#	55
116)	METHYL CYCLOHEXANE	4.91	83	312504	20.7896058	ppb	#	82
117)	2-NITROPROPANE	5.98	43	504704	353.8477598	ppb	#	41
118)	METHYL METHACRYLATE	5.27	41	29557	6.8929195	ppb	#	64
119)	1,4-DIOXANE	5.27	88	4177	63.1838960	ppb	#	1
120)	N-OCTANE	5.61	85	6887	1.2099578	ppb	#	87
123)	ETHYL METHACRYLATE	6.09	69	4931	0.9091792	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.66	53	1095	0.7323011	ppb	#	1
126)	PENTACHLOROETHANE	8.14	117	22379	9.3455465	ppb	#	15

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018 41.D Vial: 41
Acq On : 18 Oct 2015 11:51 pm Operator: 522
Sample : MS 1x WG822800 L794661-01 Inst : VOCMS8
Misc : water IS/SURR15H19728/spk15J11487 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 9:02 2015 Quant Results File: V808J11O.RES

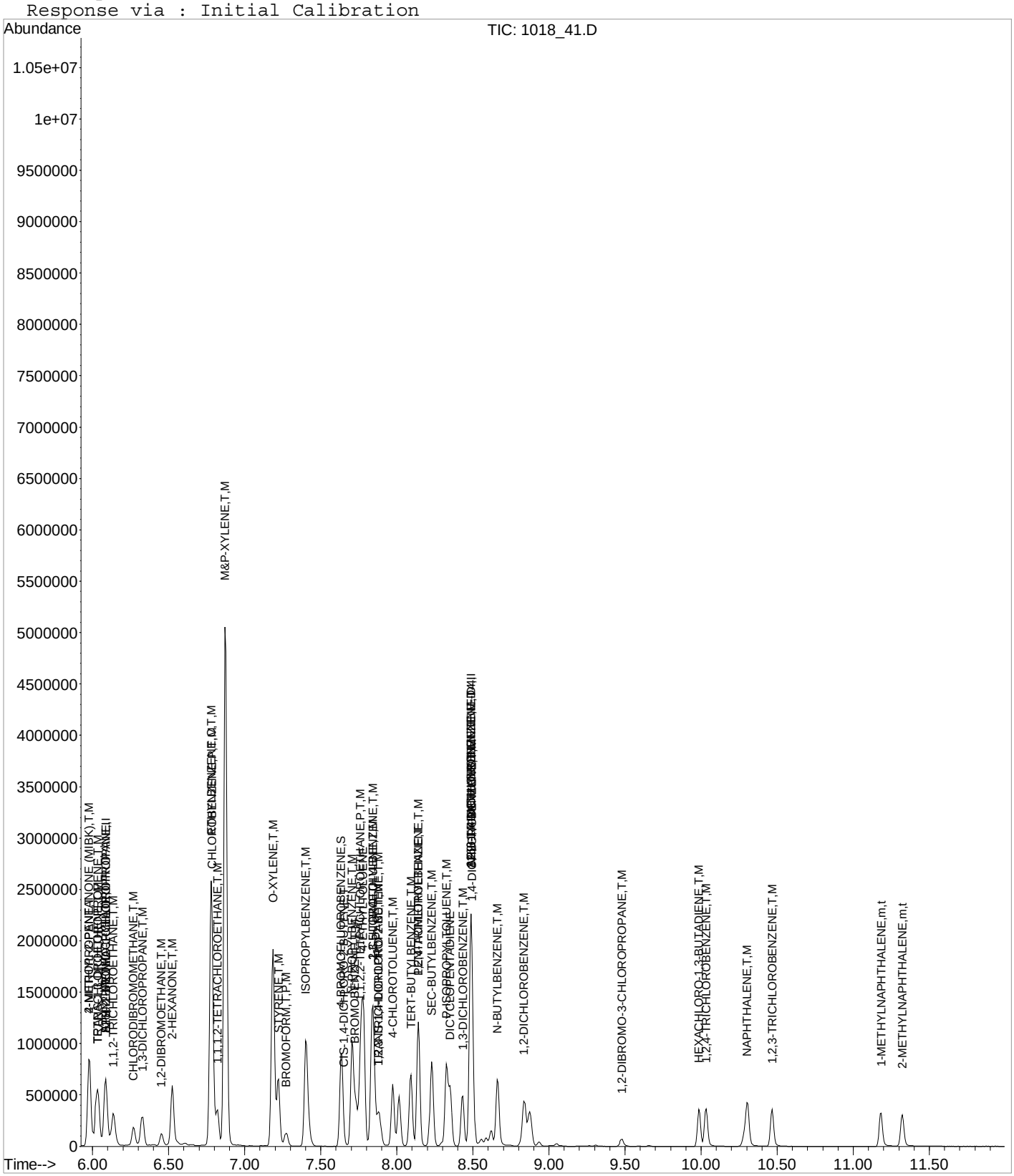
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018_41.D Vial: 41
Acq On : 18 Oct 2015 11:51 pm Operator: 522
Sample : MS 1x WG822800 L794661-01 Inst : VOCMS8
Misc : water IS/SURR15H19728/spk15J11487 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 9:02 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018 42.D Vial: 42
Acq On : 19 Oct 2015 12:15 am Operator: 522
Sample : MSD 1x WG822800 L794661-01 Inst : VOCMS8
Misc : water IS/SURR15H19728/spk15J11487 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 09:02:39 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.56	168	403142	40.00	ppb	-0.01
41) 8260-1,4-DIFLUOROBENZENE	4.90	114	735775	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.09	79	126358	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.48	152	292221	40.00	ppb	-0.01
96) AP9-PENTAFLUOROBENZENE	4.56	168	403140	40.00	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.90	114	735775	40.00	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.09	79	126358	40.00	ppb	0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.48	152	292221	40.00	ppb	-0.01
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.33	111	202911	40.2823826	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 100.71%			
46) A,A,A-TRIFLUOROTOLUENE	5.27	146	379677	40.3213358	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 100.80%			
50) TOLUENE-D8	5.74	98	915587	41.4232283	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 103.56%			
68) 4-BROMOFLUOROBENZENE	7.63	95	322394	38.4603552	ppb	-0.01
Spiked Amount 40.000	Range 80 - 120		Recovery = 96.15%			
Target Compounds						Qvalue
3) PROPENE	1.76	41	31837	24.6322024	ppb #	86
4) DICHLORODIFLUOROMETHANE	1.81	85	73858	18.5610044	ppb	98
5) CHLOROMETHANE	2.02	50	117542	19.2101243	ppb #	92
6) VINYL CHLORIDE	2.07	62	109257	19.1796590	ppb	98
7) 1,3-BUTADIENE	2.08	39	114473	31.2424290	ppb #	65
8) BROMOMETHANE	2.35	94	30190	24.1733239	ppb	97
9) CHLOROETHANE	2.44	64	66936	33.4069343	ppb	99
10) TRICHLOROFLUOROMETHANE	2.56	101	124644	23.8357743	ppb	99
11) DICHLOROFLUORMETHANE	2.60	67	192773	25.7087406	ug/l	97
12) ETHYL ETHER	2.77	59	80557	22.6278453	ppb	99
13) ACROLEIN	3.14	56	105847	121.3267504	ppb	87
14) 1,1-DICHLOROETHENE	2.93	96	77321	20.6745995	ppb	97
15) 1,1,2-TRICHLOROTRIFLUOROET	2.94	101	89073	23.6249535	ppb	96
16) ACETONE	3.31	43	192296	72.5216692	ppb	97
17) IODOMETHANE	3.05	142	464104	99.9602155	ppb	98
18) CARBON DISULFIDE	2.98	76	206367	14.6246755	ppb	99
19) METHYLENE CHLORIDE	3.30	84	93288	22.3301925	ppb	96
20) ACRYLONITRILE	3.79	53	235064	142.3225110	ppb	95
21) n-HEXANE	3.44	56	161621	35.1488466	ppb #	77
22) TRANS-1,2-DICHLOROETHENE	3.41	96	90689	21.1242289	ppb	99
23) METHYL TERT-BUTYL ETHER	3.44	73	291664	23.5097819	ppb	86
24) 1,1-DICHLOROETHANE	3.77	63	184272	23.8230764	ppb	98
25) VINYL ACETATE	3.87	43	1000284	152.1861792	ppb	98
26) DI-ISOPROPYL ETHER	3.65	45	330088	24.1089043	ppb	97
27) 2,2-DICHLOROPROPANE	4.15	77	161441	24.0652796	ppb	99
28) CIS-1,2-DICHLOROETHENE	4.08	96	109965	24.2856810	ppb	92
29) 2-BUTANONE (MEK)	4.38	43	283599	93.5431132	ppb	89
30) BROMOCHLOROMETHANE	4.20	130	49736	23.3556588	ppb	91
31) TETRAHYDROFURAN	4.33	42	36727	22.1183387	ppb #	82
32) CHLOROFORM	4.22	83	197130	28.9391009	ppb	87
34) 1,1,1-TRICHLOROETHANE	4.37	97	135046	23.0580627	ppb	98
35) CARBON TETRACHLORIDE	4.33	117	112294	22.5239562	ppb	96
36) 1,1-DICHLOROPROPENE	4.43	75	129931	21.9793694	ppb	99
37) 2,2,4-TRIMETHYLPENTANE	4.47	57	876625	36.2979405	ppb #	91
38) HEPTANE	4.51	71	132707	24.7128647	ppb #	95

(#) = qualifier out of range (m) = manual integration

Data File : C:\MSDCHEM\1\DATA\101815\1018 42.D Vial: 42
Acq On : 19 Oct 2015 12:15 am Operator: 522
Sample : MSD 1x WG822800 L794661-01 Inst : VOCMS8
Misc : water IS/SURR15H19728/spk15J11487 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 09:02:39 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	BENZENE	4.57	78	3068077	167.3263438 ppb		98
40)	1,2-DICHLOROETHANE	4.69	62	118603	22.1212056 ppb	#	82
42)	TRICHLOROETHENE	4.91	130	95268	21.8698467 ppb	#	66
43)	1,2-DICHLOROPROPANE	5.22	62	77182	23.5128268 ppb	#	95
44)	DIBROMOMETHANE	5.17	93	54613	24.6652038 ppb	#	84
45)	BROMODICHLOROMETHANE	5.24	83	130912	24.3274903 ppb		97
47)	2-CHLOROETHYL VINYL ETHER	5.55	63	20574	9.0957361 ppb	#	90
48)	CIS-1,3-DICHLOROPROPENE	5.62	75	167394	23.6390957 ppb		96
49)	4-METHYL-2-PENTANONE (MIBK	5.98	43	518553	121.0824545 ppb		99
51)	TOLUENE	5.78	91	5282198	266.6124502 ppb		98
52)	TRANS-1,3-DICHLOROPROPENE	6.02	75	147662	24.1777690 ppb		97
54)	1,1,2-TRICHLOROETHANE	6.14	97	91068	24.5058011 ppb		87
55)	TETRACHLOROETHENE	6.04	164	72761	22.2975667 ppb		91
56)	1,3-DICHLOROPROPANE	6.33	76	158851	22.5180517 ppb		98
57)	2-HEXANONE	6.53	58	231775	96.4896705 ppb		99
58)	CHLORODIBROMOMETHANE	6.27	129	85830	22.9137009 ppb		97
59)	1,2-DIBROMOETHANE	6.45	107	79893	22.4055035 ppb		93
60)	CHLOROBENZENE	6.79	112	271349	23.6631344 ppb	#	74
61)	1,1,1,2-TETRACHLOROETHANE	6.82	133	81527	22.9214859 ppb		97
62)	ETHYLBENZENE	6.78	106	472546	69.8103264 ppb		97
63)	M&P-XYLENE	6.87	106	1239526	146.0776223 ppb		96
64)	O-XYLENE	7.19	106	514954	64.8575758 ppb		98
65)	STYRENE	7.22	104	322829	25.3752194 ppb		96
66)	BROMOFORM	7.27	173	51290	22.3526006 ppb		99
67)	ISOPROPYLBENZENE	7.40	105	601369	28.4656734 ppb		100
69)	BROMOBENZENE	7.73	77	220351	24.1624526 ppb		96
70)	1,1,2,2-TETRACHLOROETHANE	7.75	83	118502	23.5787932 ppb	#	97
71)	1,2,3-TRICHLOROPROPANE	7.88	110	33603	22.9804111 ppb		96
72)	TRANS-1,4-DICHLORO-2-BUTEN	7.89	53	33149	21.2497534 ppb		94
73)	N-PROPYLBENZENE	7.71	91	791450	31.9036881 ppb		100
74)	4-ETHYLTOLUENE	7.77	105	1175475	57.9152688 ppb		99
75)	2-CHLOROTOLUENE	7.85	91	407440	25.1844254 ppb		98
76)	4-CHLOROTOLUENE	7.97	91	341473	23.0854588 ppb		99
77)	1,3,5-TRIMETHYLBENZENE	7.84	105	566515	32.1520834 ppb		99
78)	TERT-BUTYLBENZENE	8.10	119	345856	24.2645796 ppb		97
79)	1,2,4-TRIMETHYLBENZENE	8.14	105	638257	39.4604571 ppb		99
80)	SEC-BUTYLBENZENE	8.23	105	583283	26.0019493 ppb		98
81)	1,3-DICHLOROBENZENE	8.43	146	191964	22.7253096 ppb		100
82)	P-ISOPROPYLTOLUENE	8.33	119	453513	24.7706979 ppb		97
83)	DICYCLOPENTADIENE	8.35	66	512250	24.1634334 ppb		100
85)	1,4-DICHLOROBENZENE	8.50	146	194566	23.2750426 ppb		97
86)	1,2,3-TRIMETHYLBENZENE	8.49	105	444238	28.1565102 ppb		97
87)	1,2-DICHLOROBENZENE	8.84	146	183993	24.2615634 ppb		98
88)	N-BUTYLBENZENE	8.66	91	414649	26.6222812 ppb		99
89)	1,2-DIBROMO-3-CHLOROPROPAN	9.48	157	21730	23.0755761 ppb		98
90)	1,2,4-TRICHLOROBENZENE	10.04	180	120956	26.6021303 ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.99	225	67299	26.1248534 ppb		98
92)	NAPHTHALENE	10.30	128	323898	24.9752408 ppb		100
93)	1,2,3-TRICHLOROBENZENE	10.47	180	115617	26.3257677 ppb		97
94)	1-METHYLNAPHTHALENE	11.18	142	176934	27.4631410 ppb		99
95)	2-METHYLNAPHTHALENE	11.32	142	167637	26.5721604 ppb		98
100)	METHYL ACETATE	3.38	43	4578	1.1890088 ppb	#	62
101)	ACETONITRILE	3.65	41	96242	138.7663356 ppb	#	38
103)	TERT-BUTYL ALCOHOL	3.48	59	3241	3.6173270 ppb	#	64

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018 42.D Vial: 42
Acq On : 19 Oct 2015 12:15 am Operator: 522
Sample : MSD 1x WG822800 L794661-01 Inst : VOCMS8
Misc : water IS/SURR15H19728/spk15J11487 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 09:02:39 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

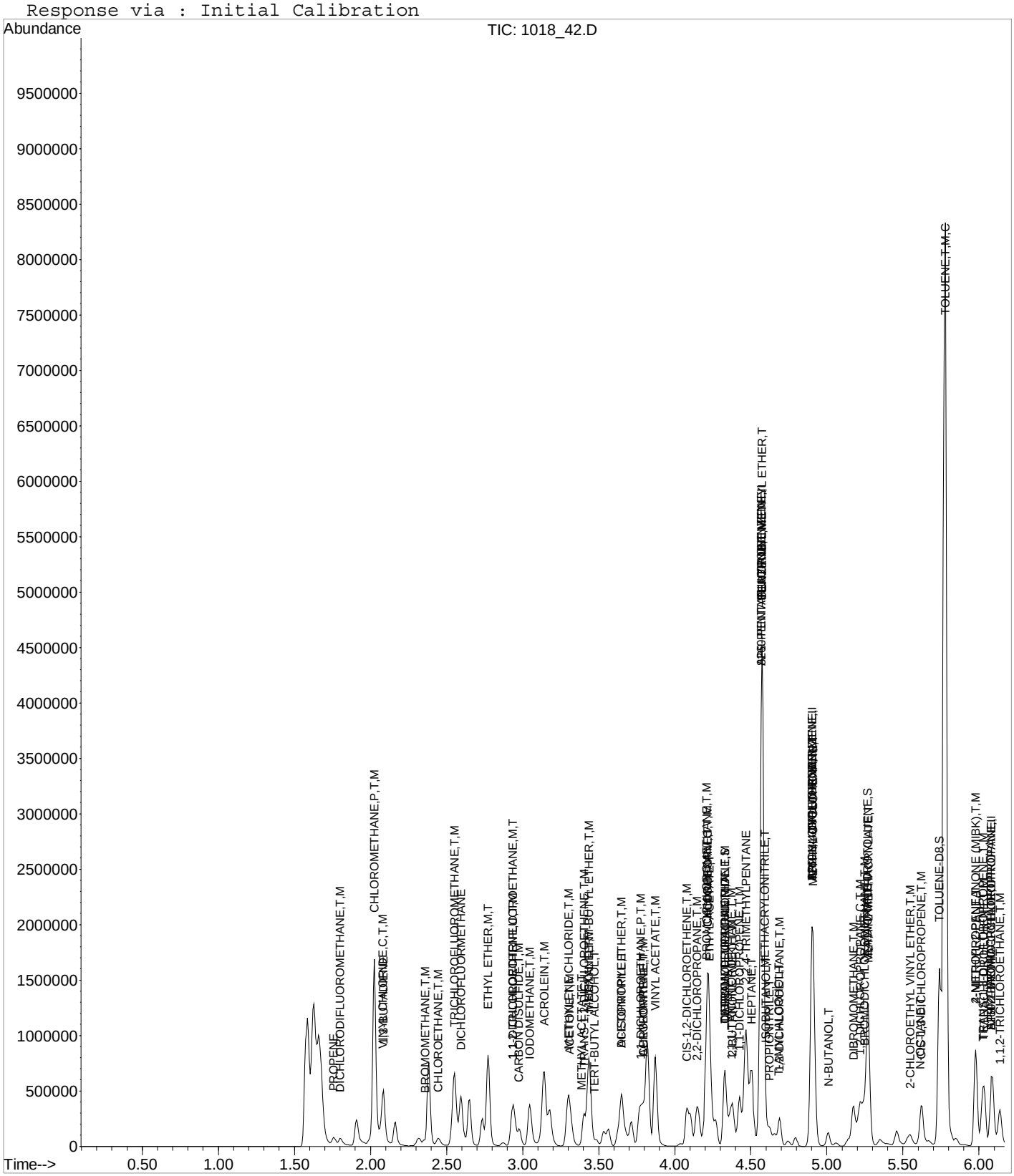
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
104)	CHLOROPRENE	3.79	53	235064	29.5344292	ppb	#	22
106)	PROPIONITRILE	4.63	54	4856	5.5561444	ppb	#	27
107)	ETHYL ACETATE	4.23	43	168672	33.4360029	ppb	#	77
108)	METHACRYLONITRILE	4.60	67	6008	2.6209268	ppb	#	1
109)	CYCLOHEXANE	4.21	84	444419	35.9156261	ppb	#	67
111)	ISOBUTANOL	4.60	43	3925	10.4391943	ppb	#	67
112)	T-AMYL ALCOHOL	4.68	59	8501	13.9829036	ppb		95
113)	TERT-AMYL METHYL ETHER	4.57	73	51055	3.1511137	ppb	#	1
115)	N-BUTANOL	5.01	56	23499	115.3494875	ppb	#	53
116)	METHYL CYCLOHEXANE	4.91	83	317786	21.0793346	ppb	#	86
117)	2-NITROPROPANE	5.98	43	518553	362.4969175	ppb	#	43
118)	METHYL METHACRYLATE	5.28	41	31377	7.2960153	ppb	#	72
119)	1,4-DIOXANE	5.27	88	4611	69.5454163	ppb	#	1
120)	N-OCTANE	5.61	85	6414	1.1235711	ppb	#	83
123)	ETHYL METHACRYLATE	6.09	69	4807	0.8830825	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.66	53	1084	0.7222998	ppb	#	1
126)	PENTACHLOROETHANE	8.14	117	21656	9.0106249	ppb	#	15

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

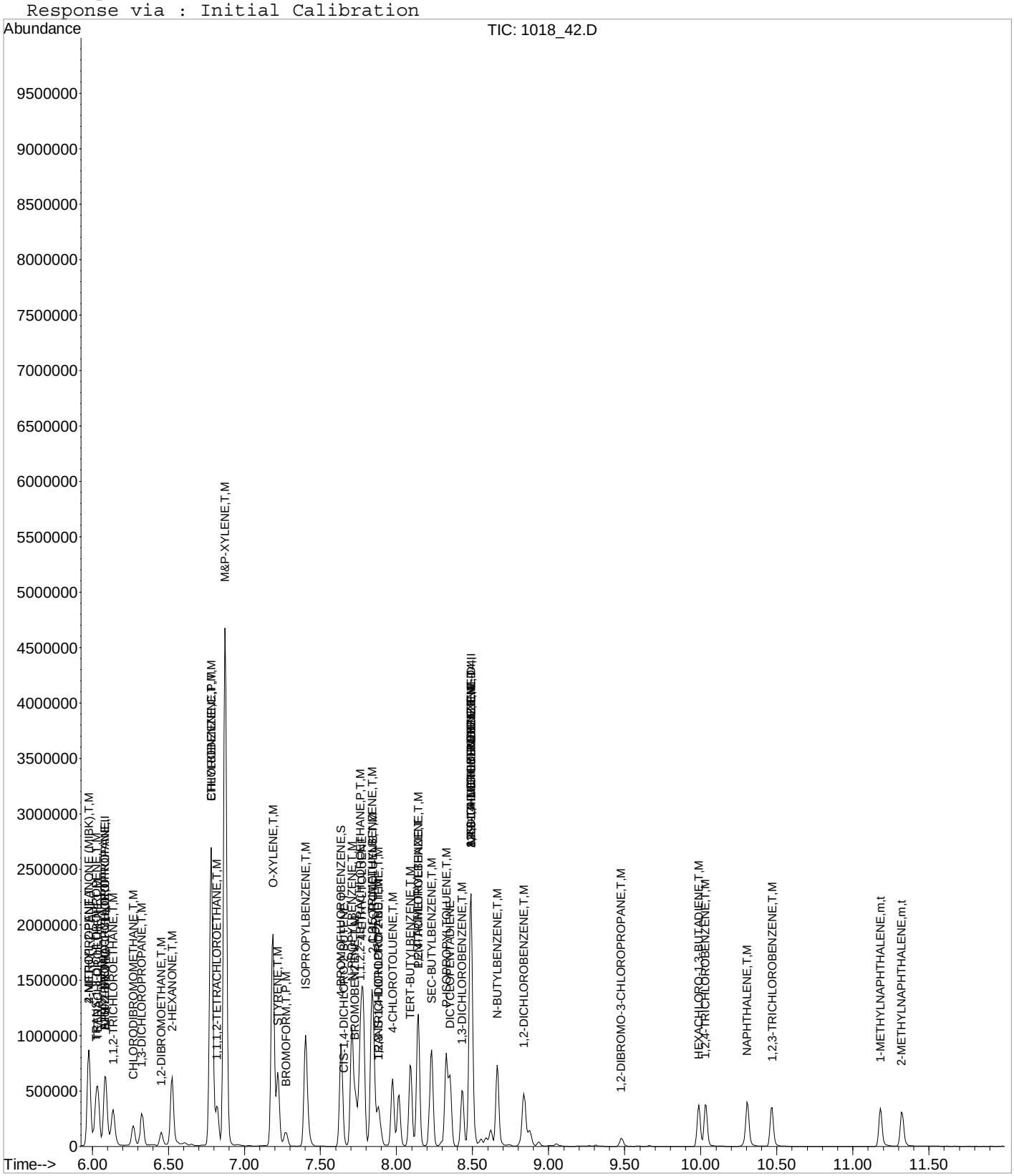
Data File : C:\MSDCHEM\1\DATA\101815\1018 42.D Vial: 42
Acq On : 19 Oct 2015 12:15 am Operator: 522
Sample : MSD 1x WG822800 L794661-01 Inst : VOCMS8
Misc : water IS/SURR15H19728/spk15J11487 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 9:02 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\101815\1018_42.D Vial: 42
Acq On : 19 Oct 2015 12:15 am Operator: 522
Sample : MSD 1x WG822800 L794661-01 Inst : VOCMS8
Misc : water IS/SURR15H19728/spk15J11487 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 9:02 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018 48.D Vial: 48
Acq On : 19 Oct 2015 2:41 am Operator: 522
Sample : L793892-09 1x WG822800 V8260TCLC Inst : VOCMS8
Misc : water IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 09:02:57 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

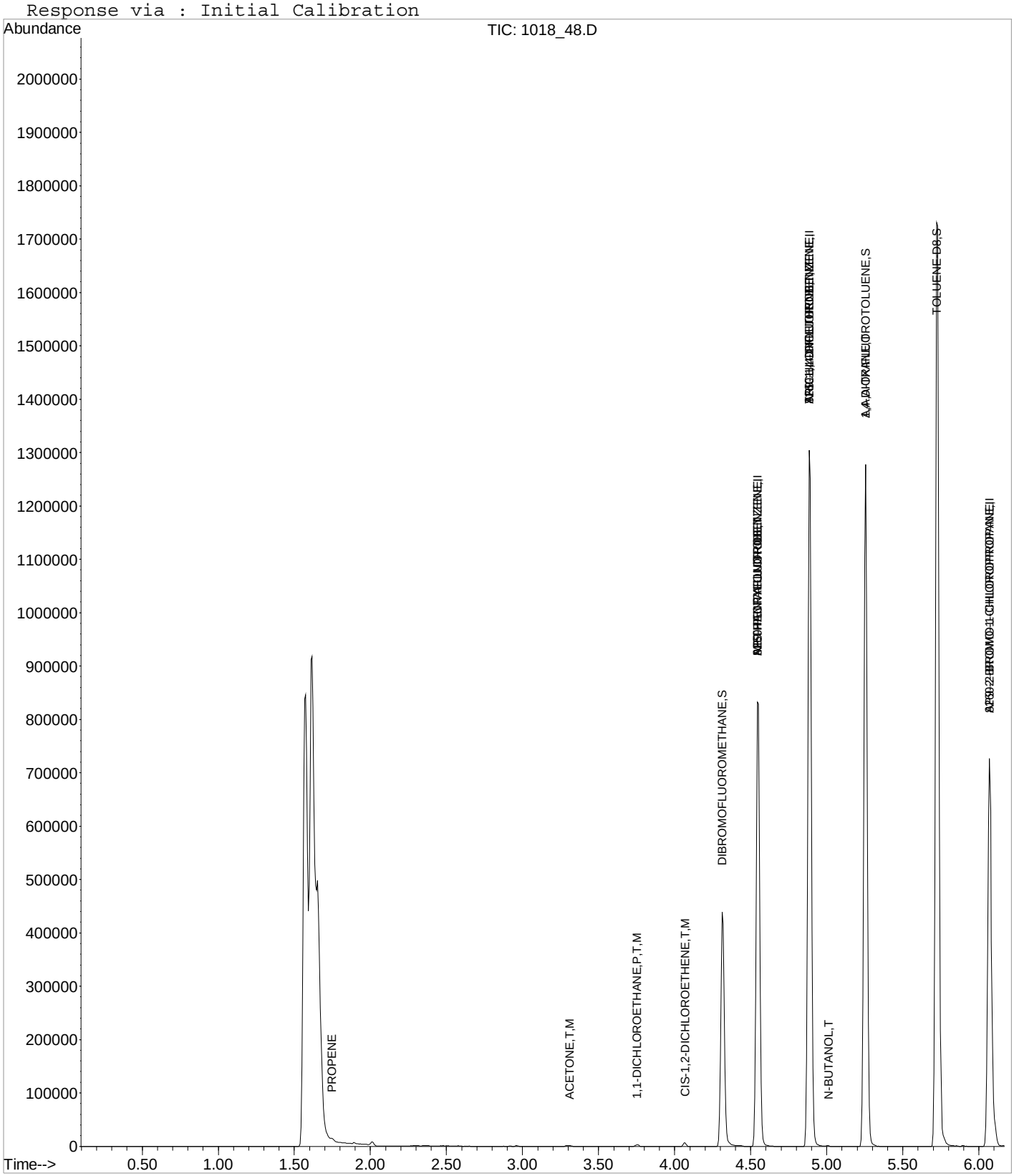
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.55	168	474047	40.00	ppb	-0.03
41) 8260-1,4-DIFLUOROBENZENE	4.88	114	825406	40.00	ppb	-0.03
53) 8260-2-BROMO-1-CHLOROPROPA	6.07	79	140461	40.00	ppb	-0.03
84) 8260-1,4-DICHLOROBENZENE-D	8.47	152	331847	40.00	ppb	-0.03
96) AP9-PENTAFLUOROBENZENE	4.55	168	474047	40.00	ppb	-0.02
114) AP9-1,4-DIFLUOROBENZENE	4.88	114	825406	40.00	ppb	-0.02
122) AP9-2-BROMO-1-CHLOROPROPAN	6.07	79	140461	40.00	ppb	-0.02
128) AP9-1,4-DICHLOROBENZENE-D4	8.47	152	331847	40.00	ppb	-0.02
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.31	111	234983	39.6718677	ppb	-0.03
Spiked Amount 40.000	Range 79 - 121		Recovery = 99.18%			
46) A,A,A-TRIFLUOROTOLUENE	5.25	146	453288	42.9113572	ppb	-0.03
Spiked Amount 40.000	Range 90 - 116		Recovery = 107.28%			
50) TOLUENE-D8	5.73	98	1053240	42.4765343	ppb	-0.02
Spiked Amount 40.000	Range 90 - 115		Recovery = 106.19%			
68) 4-BROMOFLUOROBENZENE	7.62	95	380791	40.8657998	ppb	-0.03
Spiked Amount 40.000	Range 80 - 120		Recovery = 102.16%			
Target Compounds						Qvalue
3) PROPENE	1.74	41	820	0.5395375	ppb #	33
16) ACETONE	3.31	43	1702	0.5458757	ppb #	55
24) 1,1-DICHLOROETHANE	3.75	63	3518	0.3867862	ppb	94
28) CIS-1,2-DICHLOROETHENE	4.06	96	2662	0.4999660	ppb	90
42) TRICHLOROETHENE	4.89	130	34436	7.0467489	ppb #	66
108) METHACRYLONITRILE	4.54	67	1030	0.3821173	ppb #	1
115) N-BUTANOL	5.01	56	876	3.8330793	ppb #	73
119) 1,4-DIOXANE	5.25	88	4754	63.9160566	ppb #	23

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018 48.D Vial: 48
Acq On : 19 Oct 2015 2:41 am Operator: 522
Sample : L793892-09 1x WG822800 V8260TCLC Inst : VOCMS8
Misc : water IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 9:34 2015 Quant Results File: V808J11O.RES

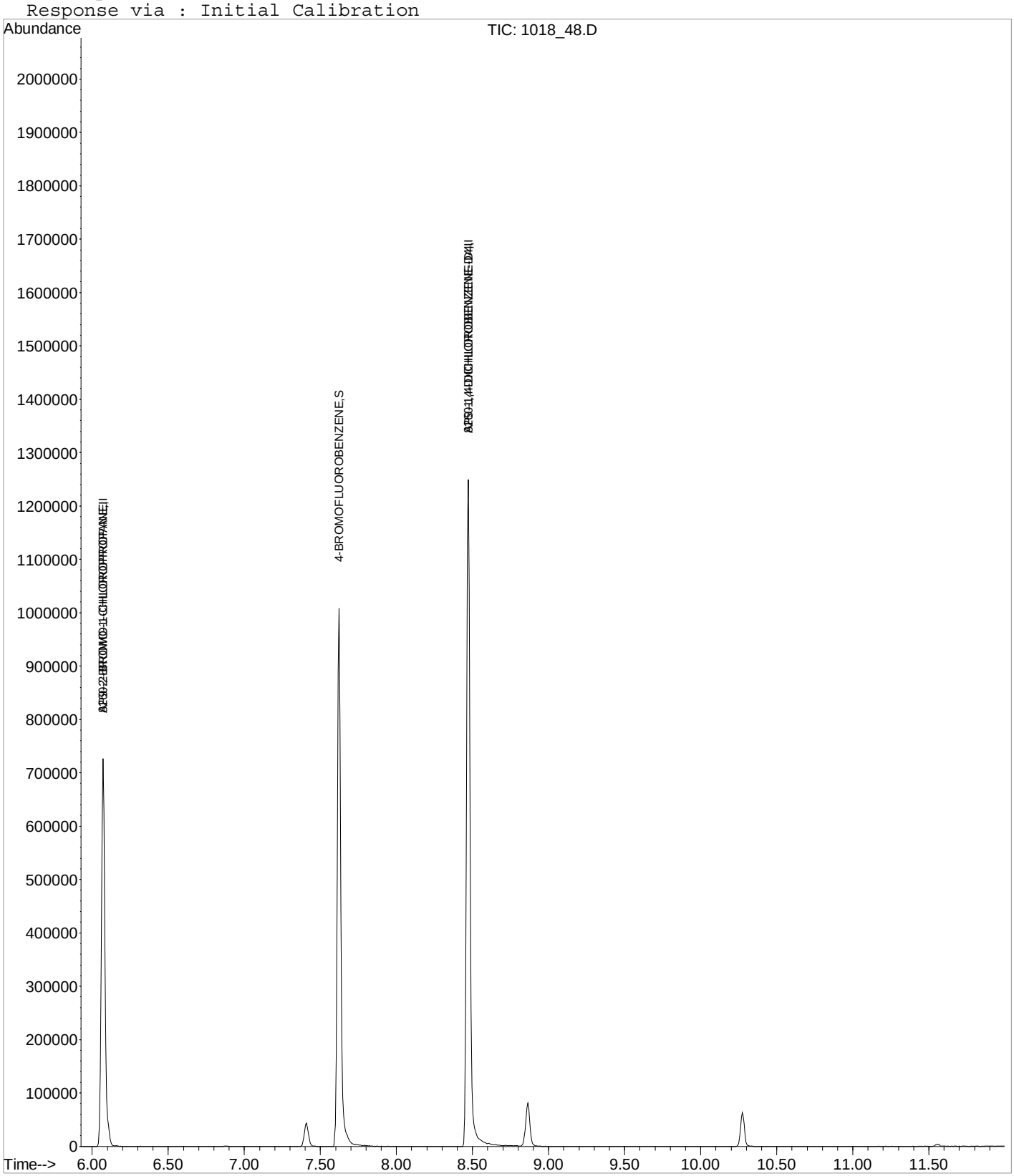
Method : C:\MSDCHEM\1\METHODS\V808J21O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Oct 21 14:33:40 2015
Response via : Initial Calibration

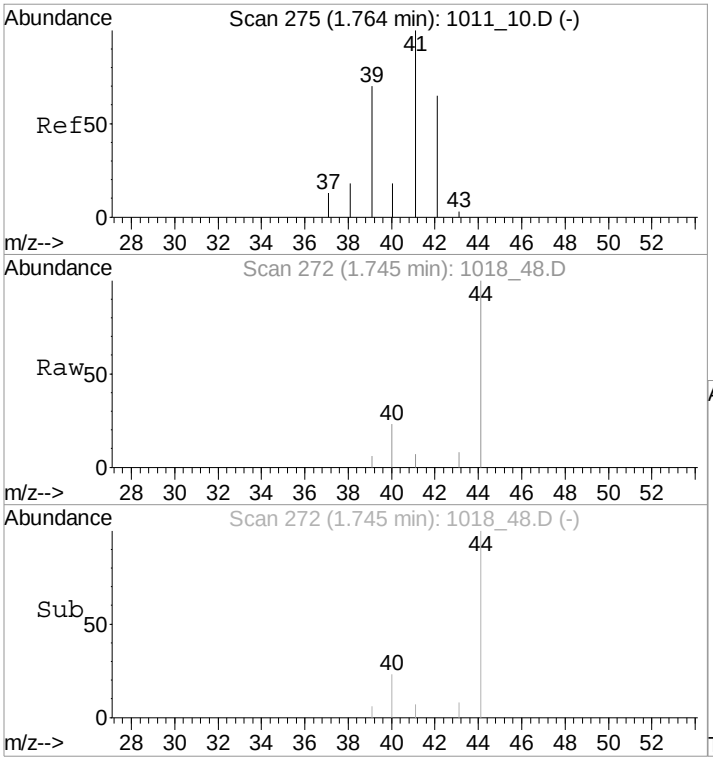


Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101815\1018_48.D Vial: 48
Acq On : 19 Oct 2015 2:41 am Operator: 522
Sample : L793892-09 1x WG822800 V8260TCLC Inst : VOCMS8
Misc : water IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 19 9:34 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J21O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Wed Oct 21 14:33:40 2015
Response via : Initial Calibration

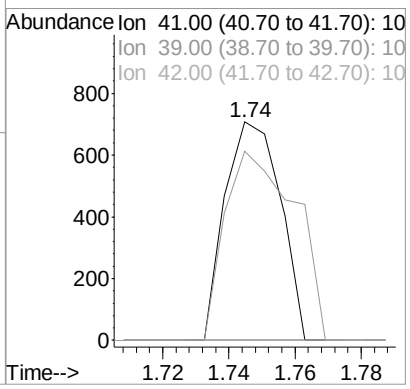


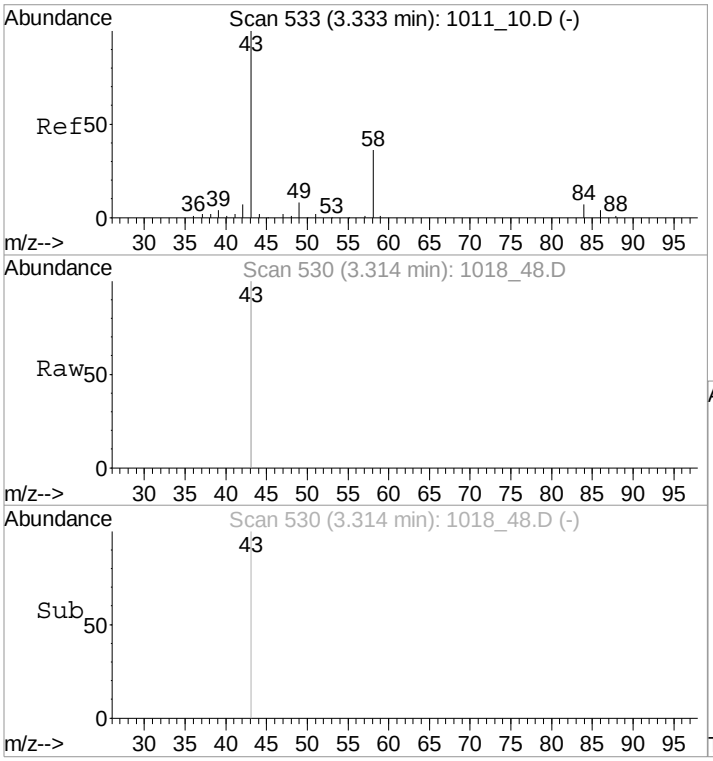


#3
PROPENE
Concen: 0.5395375 ppb
RT: 1.74 min Scan# 272
Delta R.T. -0.02 min
Lab File: 1018_48.D
Acq: 19 Oct 2015 2:41 am

Tgt Ion: 41 Resp: 820

Ion	Ratio	Lower	Upper
41	100		
39	109.9	54.9	82.3#
42	0.0	53.0	79.4#

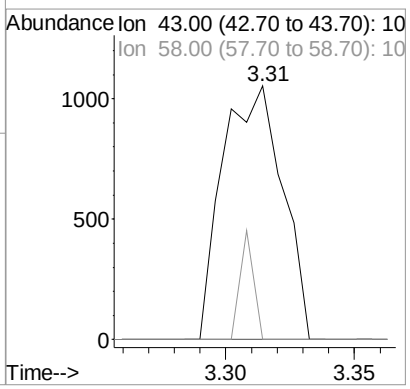


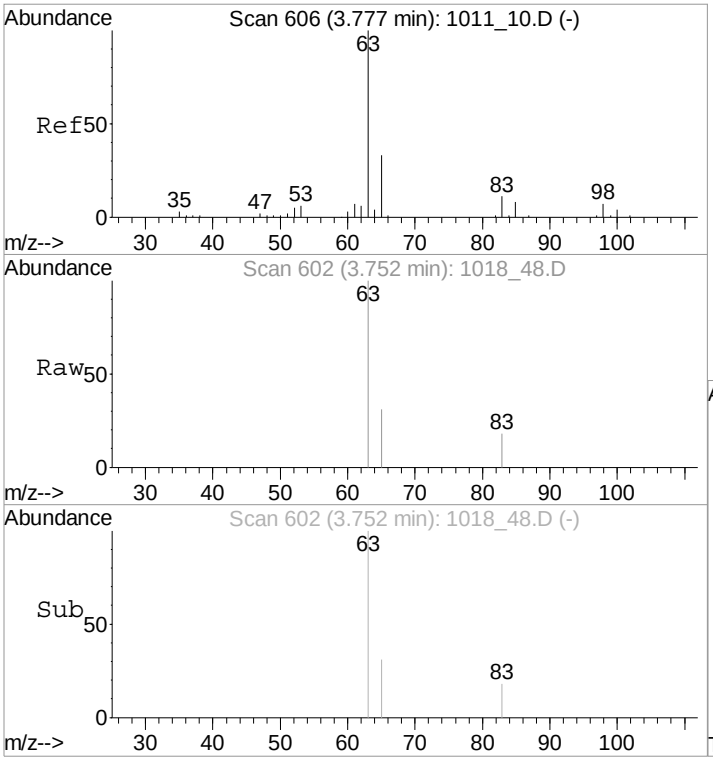


#16
ACETONE
Concen: 0.5458757 ppb
RT: 3.31 min Scan# 530
Delta R.T. -0.02 min
Lab File: 1018_48.D
Acq: 19 Oct 2015 2:41 am

Tgt Ion: 43 Resp: 1702

Ion	Ratio	Lower	Upper
43	100		
58	9.7	28.6	43.0#

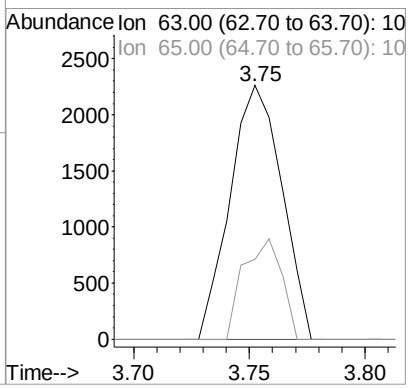


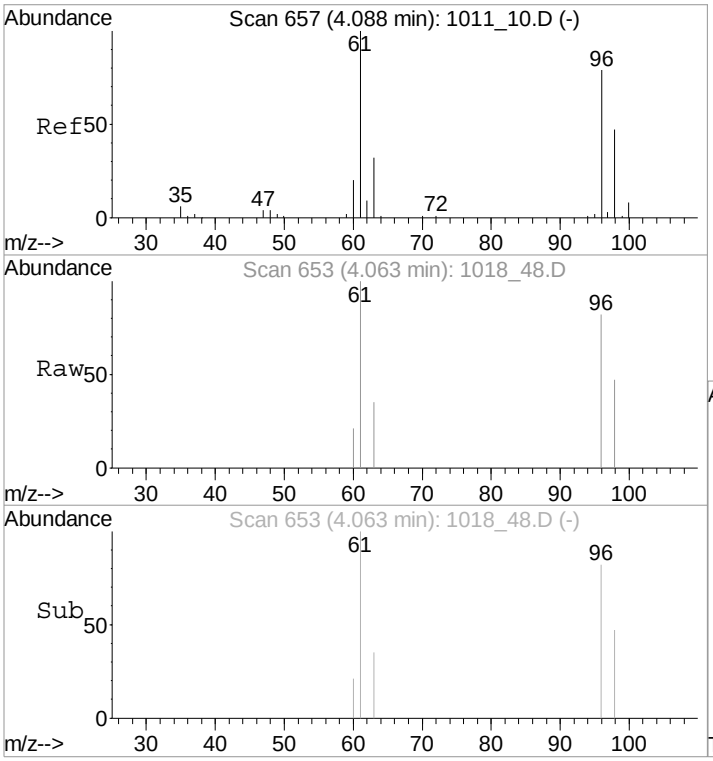


#24
1,1-DICHLOROETHANE
Concen: 0.3867862 ppb
RT: 3.75 min Scan# 602
Delta R.T. -0.02 min
Lab File: 1018_48.D
Acq: 19 Oct 2015 2:41 am

Tgt Ion: 63 Resp: 3518

Ion	Ratio	Lower	Upper
63	100		
65	29.2	26.0	39.0

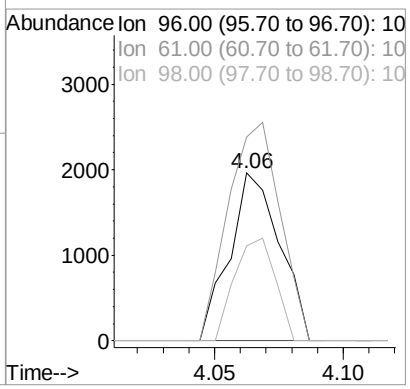


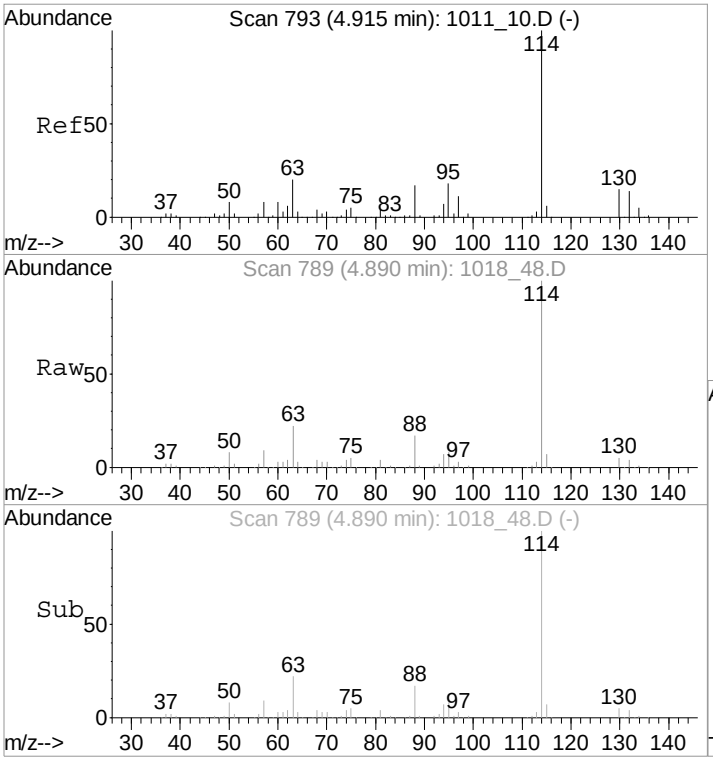


#28
CIS-1,2-DICHLOROETHENE
Concen: 0.4999660 ppb
RT: 4.06 min Scan# 653
Delta R.T. -0.02 min
Lab File: 1018_48.D
Acq: 19 Oct 2015 2:41 am

Tgt Ion: 96 Resp: 2662

Ion	Ratio	Lower	Upper
96	100		
61	135.2	102.2	153.2
98	49.6	49.4	74.2

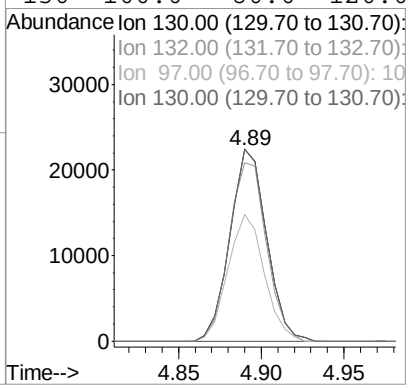


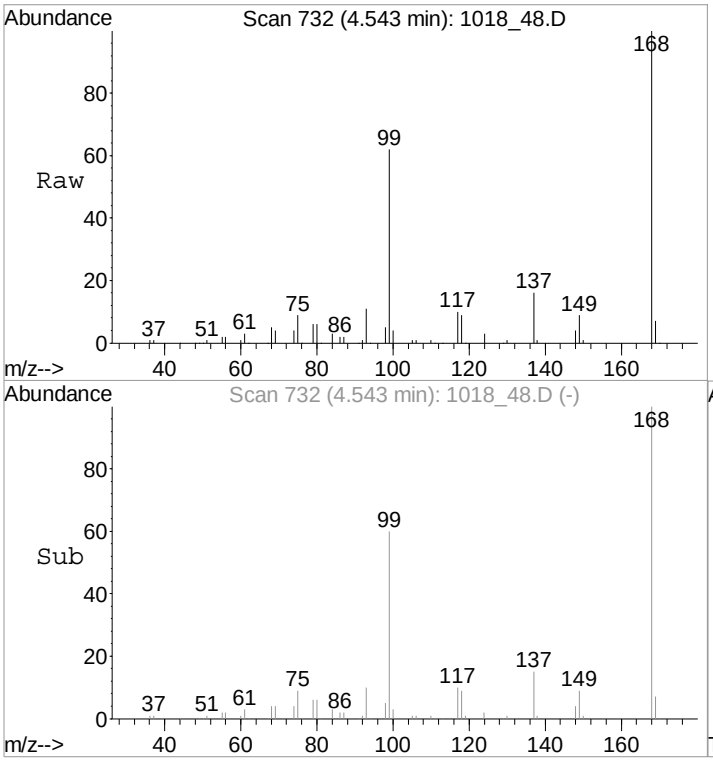


#42
TRICHLOROETHENE
Concen: 7.0467489 ppb
RT: 4.89 min Scan# 789
Delta R.T. -0.03 min
Lab File: 1018_48.D
Acq: 19 Oct 2015 2:41 am

Tgt Ion:130 Resp: 34436

Ion	Ratio	Lower	Upper
130	100		
132	95.2	0.0	0.0#
97	0.0	53.6	80.4#
130	100.0	80.0	120.0

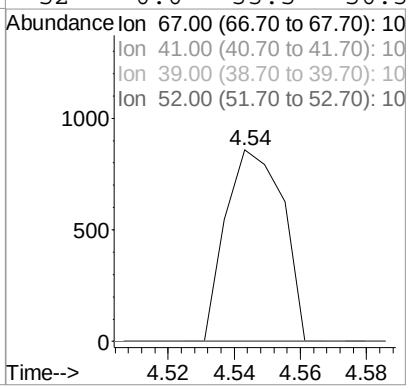


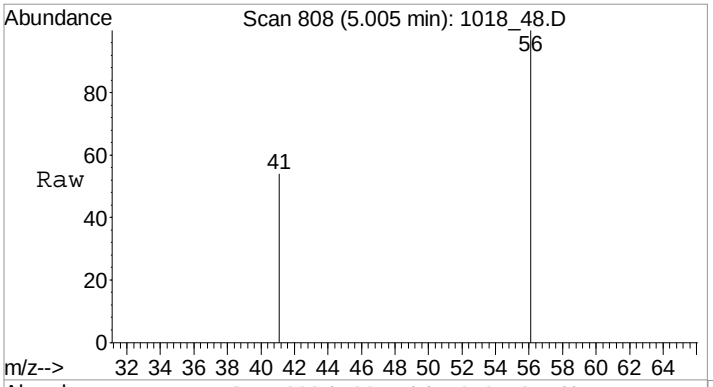


#108
METHACRYLONITRILE
Concen: 0.3821173 ppb
RT: 4.54 min Scan# 732
Delta R.T. -0.05 min
Lab File: 1018_48.D
Acq: 19 Oct 2015 2:41 am

Tgt Ion: 67 Resp: 1030

Ion	Ratio	Lower	Upper
67	100		
41	0.0	118.3	177.5#
39	0.0	58.0	87.0#
52	0.0	33.5	50.3#

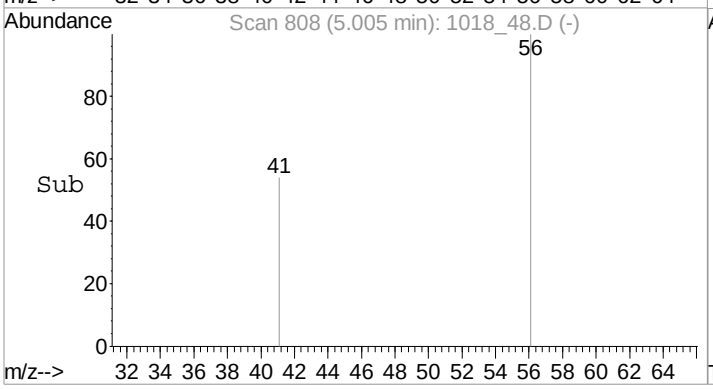


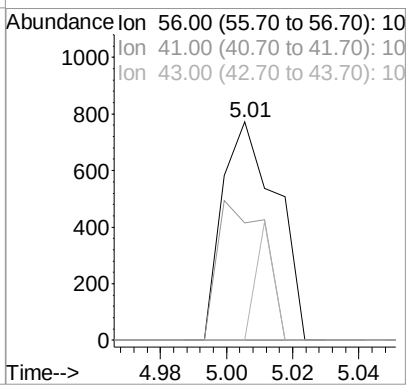


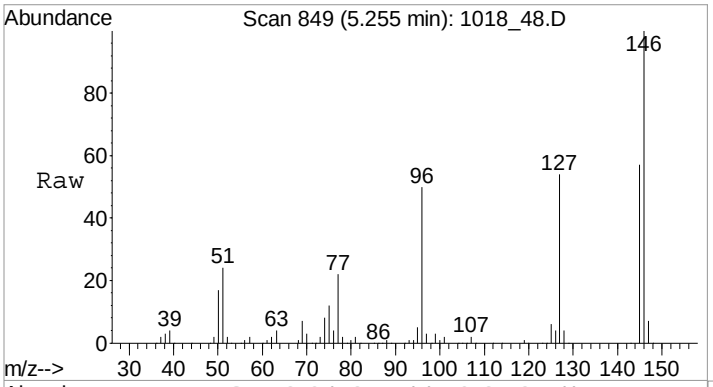
#115
N-BUTANOL
Concen: 3.8330793 ppb
RT: 5.01 min Scan# 808
Delta R.T. -0.02 min
Lab File: 1018_48.D
Acq: 19 Oct 2015 2:41 am

Tgt Ion: 56 Resp: 876

Ion	Ratio	Lower	Upper
56	100		
41	55.6	49.8	74.6
43	17.5	41.1	61.7#



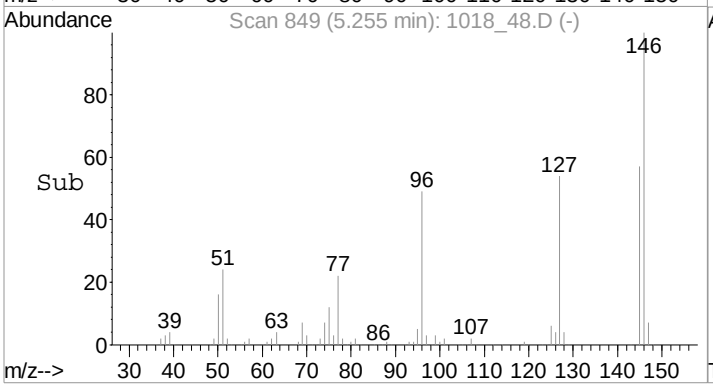


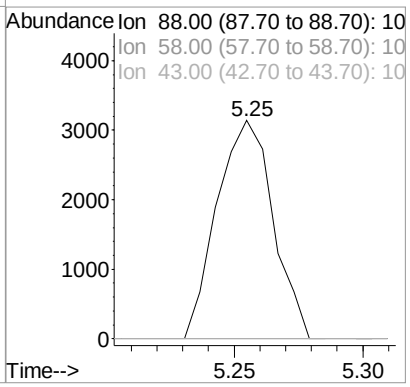


#119
1,4-DIOXANE
Concen: 63.9160566 ppb
RT: 5.25 min Scan# 849
Delta R.T. -0.11 min
Lab File: 1018_48.D
Acq: 19 Oct 2015 2:41 am

Tgt Ion: 88 Resp: 4754

Ion	Ratio	Lower	Upper
88	100		
58	0.0	57.0	85.6#
43	0.0	24.6	36.8#





Calibration

Instrument: VOCMS25
Method: V825I15O

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0915_04A.D	.25	9/15/2015 11:55:00 AM
0915_05A.D	.5	9/15/2015 12:13:00 PM
0915_06A.D	1	9/15/2015 12:32:00 PM
0915_07A.D	2	9/15/2015 12:50:00 PM
0915_08A.D	5.0	9/15/2015 1:08:00 PM
0915_09A.D	10	9/15/2015 1:26:00 PM
0915_10A.D	25	9/15/2015 1:45:00 PM
0915_11A.D	40	9/15/2015 2:03:00 PM
0915_12A.D	75	9/15/2015 2:21:00 PM
0915_13A.D	100	9/15/2015 2:39:00 PM
0915_14A.D	200	9/15/2015 2:58:00 PM
0915_18A.D	1A	9/15/2015 4:11:00 PM
0915_19A.D	2.5A	9/15/2015 4:29:00 PM
0915_20A.D	5A	9/15/2015 4:47:00 PM
0915_21A.D	7.5A	9/15/2015 5:05:00 PM
0915_22A.D	10A	9/15/2015 5:24:00 PM
0915_23A.D	12A	9/15/2015 5:42:00 PM
0915_24A.D	15A	9/15/2015 6:00:00 PM
0915_25A.D	17A	9/15/2015 6:18:00 PM
0915_26A.D	20A	9/15/2015 6:37:00 PM

Mint Miner 2.6.4 Directory Scan: y:\091515A

16 Sep 2015 15:51

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\091515A\0915_01A.D					
Original Path: 0915_01A.D					
0	Scanned		621	VOCMS25	INSTBLK (water IS/SURR15A20860)
Scan File Path: y:\091515A\0915_02A.D					
Original Path: y:\091515A\0915_02A.D					
0	No Audit				
Scan File Path: y:\091515A\0915_03A.D					
Original Path: y:\091515A\0915_03A.D					
0	No Audit				
Scan File Path: y:\091515A\0915_04A.D					
Original Path: C:\msdchem\1\data\091515A\0915_04A.D					
17	Scanned	D(13), MZ(4)	621	VOCMS25	STD VMS 0.25 ppb 15I04618 (water IS/SURR15
Scan File Path: y:\091515A\0915_05A.D					
Original Path: C:\msdchem\1\data\091515A\0915_05A.D					
17	Scanned	D(13), MZ(4)	621	VOCMS25	STD VMS 0.5 ppb 15I04618 (water IS/SURR15A
Scan File Path: y:\091515A\0915_06A.D					
Original Path: C:\msdchem\1\data\091515A\0915_06A.D					
17	Scanned	D(16), ENR(1)	621	VOCMS25	STD VMS 1 ppb 15I04618 (water IS/SURR15A2
Scan File Path: y:\091515A\0915_07A.D					
Original Path: C:\msdchem\1\data\091515A\0915_07A.D					
20	Scanned	D(19), ENR(1)	621	VOCMS25	STD VMS 2 ppb 15I04618 (water IS/SURR15A2
Scan File Path: y:\091515A\0915_08A.D					
Original Path: C:\msdchem\1\data\091515A\0915_08A.D					
24	Scanned	D(23), ENR(1)	621	VOCMS25	STD VMS 5.0 ppb 15I04618 (water IS/SURR15A
Scan File Path: y:\091515A\0915_09A.D					
Original Path: C:\msdchem\1\data\091515A\0915_09A.D					
26	Scanned	D(25), ENR(1)	621	VOCMS25	STD VMS 10 ppb 15I04618 (water IS/SURR15A
Scan File Path: y:\091515A\0915_10A.D					
Original Path: C:\msdchem\1\data\091515A\0915_10A.D					
56	Scanned	D(55), ENR(1)	621	VOCMS25	MSTD VMS 25 ppb 15I04618 (water IS/SURR15
Scan File Path: y:\091515A\0915_11A.D					
Original Path: C:\msdchem\1\data\091515A\0915_11A.D					
29	Scanned	D(28), ENR(1)	621	VOCMS25	STD VMS 40 ppb 15I04618 (water IS/SURR15A

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\091515A\0915_12A.D					
Original Path: C:\msdchem\1\data\091515A\0915_12A.D					
31	Scanned	D(30), ENR(1)	621	VOCMS25	STD VMS 75 ppb 15I04618 (water IS/SURR15A
Scan File Path: y:\091515A\0915_13A.D					
Original Path: C:\msdchem\1\data\091515A\0915_13A.D					
31	Scanned	D(30), ENR(1)	621	VOCMS25	STD VMS 100 ppb 15I04618 (water IS/SURR15.
Scan File Path: y:\091515A\0915_14A.D					
Original Path: C:\msdchem\1\data\091515A\0915_14A.D					
32	Scanned	D(31), ENR(1)	621	VOCMS25	STD VMS 200 ppb 15I04618 (water IS/SURR15.
Scan File Path: y:\091515A\0915_15A.D					
Original Path: y:\091515A\0915_15A.D					
0	No Audit				
Scan File Path: y:\091515A\0915_16A.D					
Original Path: C:\msdchem\1\data\091515A\0915_16A.D\data.ms					
0	Scanned		621	VOCMS25	SSCV VMS 25 ppb 15I04620 (water IS/SURR15
Scan File Path: y:\091515A\0915_17A.D					
Original Path: C:\msdchem\1\data\091515A\0915_17A.D\data.ms					
0	Scanned		621	VOCMS25	INSTBLK (water IS/SURR15A20860)
Scan File Path: y:\091515A\0915_18A.D					
Original Path: C:\msdchem\1\data\091515A\0915_18A.D					
74	Scanned	D(53), DK(4), DC(2), DP(2), DS(2), DB(2), ENR(1)	621	VOCMS25	STD VMS 1a ppb 15H20824 (water IS/SURR15A
Scan File Path: y:\091515A\0915_18AB.D					
Original Path: C:\msdchem\1\data\091515A\0915_18A.D					
74	Scanned	D(53), DK(4), DC(2), DP(2), DS(2), DB(2), ENR(1)	621	VOCMS25	STD VMS 1a ppb 15H20824 (water IS/SURR15A
Scan File Path: y:\091515A\0915_19A.D					
Original Path: C:\msdchem\1\data\091515A\0915_19A.D					
85	Scanned	D(53), DK(5), DC(3), DP(3), DS(2), DB(2), M(3), MR(1), ENR(1)	621	VOCMS25	STD VMS 2.5 ppb 15H20824 (water IS/SURR15
Scan File Path: y:\091515A\0915_20A.D					
Original Path: C:\msdchem\1\data\091515A\0915_20A.D					
79	Scanned	D(53), DK(5), DC(3), DP(3), DS(2), DB(2), M(2), ENR(1)	621	VOCMS25	STD VMS 5 ppb 15H20824 (water IS/SURR15A

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\091515A\0915_21A.D					
Original Path: C:\msdchem\1\data\091515A\0915_21A.D					
78	Scanned	D(54), DC(3), DK(4), DP(3), DS(2), DB(2), M(1), ENR(1)	621	VOCMS25	STD VMS 7.5 ppb 15H20824 (water IS/SURR15
Scan File Path: y:\091515A\0915_22A.D					
Original Path: C:\msdchem\1\data\091515A\0915_22A.D					
83	Scanned	D(54), DC(3), DK(4), DP(3), DS(2), DB(2), MR(1), M(1), ENR(1)	621	VOCMS25	MSTD VMS 10a ppb 15H20824 (water IS/SURR
Scan File Path: y:\091515A\0915_23A.D					
Original Path: C:\msdchem\1\data\091515A\0915_23A.D					
78	Scanned	D(50), DP(3), DS(2), DC(2), DK(3), DB(2), M(2), MR(1), ENR(1)	621	VOCMS25	STD VMS 12.5 ppb 15H20824 (water IS/SURR1
Scan File Path: y:\091515A\0915_24A.D					
Original Path: C:\msdchem\1\data\091515A\0915_24A.D					
74	Scanned	D(52), DP(3), DS(2), DC(2), DK(3), DB(2), M(1), ENR(1)	621	VOCMS25	STD VMS 15 ppb 15H20824 (water IS/SURR15/
Scan File Path: y:\091515A\0915_25A.D					
Original Path: C:\msdchem\1\data\091515A\0915_25A.D					
77	Scanned	D(53), DC(3), DK(4), DP(3), DS(2), DB(2), M(1), ENR(1)	621	VOCMS25	STD VMS 17.5 ppb 15H20824 (water IS/SURR1
Scan File Path: y:\091515A\0915_26A.D					
Original Path: C:\msdchem\1\data\091515A\0915_26A.D\data.ms					
232	Scanned	D(156), DP(9), DS(6), DC(6), DK(9), DB(6), M(6), MM(1), MR(1)	621	VOCMS25	STD VMS 20 ppb 15H20824 (water IS/SURR15/
Scan File Path: y:\091515A\0915_27A.D					
Original Path: C:\msdchem\1\data\091515A\0915_27A.D\data.ms					
0	Scanned		621	VOCMS25	STD VMS 20 a 15H20824 (water IS/SURR15A2
Scan File Path: y:\091515A\0915_28A.D					
Original Path: C:\msdchem\1\data\091515A\0915_28A.D\data.ms					
0	Scanned		621	VOCMS25	SSCV VMS 10a ppb 15H19752 (water IS/SURR

D = Deletion of any analyte
DB = Deletion of a common contaminant
DC = Deletion of a CCC
DK = Deletion of a spike compound
DP = Deletion of an SPCC
DS = Deletion of a surrogate
ENR = Quant report set to not reviewed (Disables MZ code)
M = Manual integration (non-specific)
MM = More than 3 manual integrations of the same analyte
MR = Manual integration with before/after ratio <10%
MZ = Manual integrated but indicator missing from either the quant report or audit file

Level	Status	Code	Operator	Instrument	Sample ID

ScanSummary.rpt

Total Files Scanned	29	Beginning Analyzed Date	9/15/2015 11:00:00AM
Methods	0	Ending Analyzed Date	9/15/2015 7:13:00PM
Samples	28	Analyzed Range	8 hours, 13 minutes
Tunes	1	Greatest Time Between Tunes	N/A
CCCs	0	Greatest Time Between CCCs	N/A

Distinct Method Last Updated count 0
Operators 1 Intruments 1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS25
Computer Name : VOCCOMPAN
Released By : John A. Heath Jr.
Date Released : 9/16/2015 3:21:59 PM
Run ID : 091515A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0915_01A	INSTBLK	V825I15O						1	1	09/15/15 1100	"water IS/SURR15A20860"
2	0915_01A	INSTBLK								1	09/15/15 1100	
3	0915_04A	STD VMS 0.25 PPB 15I04618	V825I15O						1	1	09/15/15 1155	"water IS/SURR15A20860"
4	0915_05A	STD VMS 0.5 PPB 15I04618	V825I15O						1	1	09/15/15 1213	"water IS/SURR15A20860"
5	0915_06A	STD VMS 1 PPB 15I04618	V825I15O						1	1	09/15/15 1232	"water IS/SURR15A20860"
6	0915_07A	STD VMS 2 PPB 15I04618	V825I15O						1	1	09/15/15 1250	"water IS/SURR15A20860"
7	0915_08A	STD VMS 5.0 PPB 15I04618	V825I15O						1	1	09/15/15 1308	"water IS/SURR15A20860"
8	0915_09A	STD VMS 10 PPB 15I04618	V825I15O						1	1	09/15/15 1326	"water IS/SURR15A20860"
9	0915_10A	MSTD VMS 25 PPB 15I04618	V825I15O						1	1	09/15/15 1345	"water IS/SURR15A20860"
10	0915_11A	STD VMS 40 PPB 15I04618	V825I15O						1	1	09/15/15 1403	"water IS/SURR15A20860"
11	0915_12A	STD VMS 75 PPB 15I04618	V825I15O						1	1	09/15/15 1421	"water IS/SURR15A20860"
12	0915_13A	STD VMS 100 PPB 15I04618	V825I15O						1	1	09/15/15 1439	"water IS/SURR15A20860"
13	0915_14A	STD VMS 200 PPB 15I04618	V825I15O						1	1	09/15/15 1458	"water IS/SURR15A20860"
14	0915_16A	SSCV VMS 25 PPB 15I04620	V825I15O						1	1	09/15/15 1534	"water IS/SURR15A20860"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

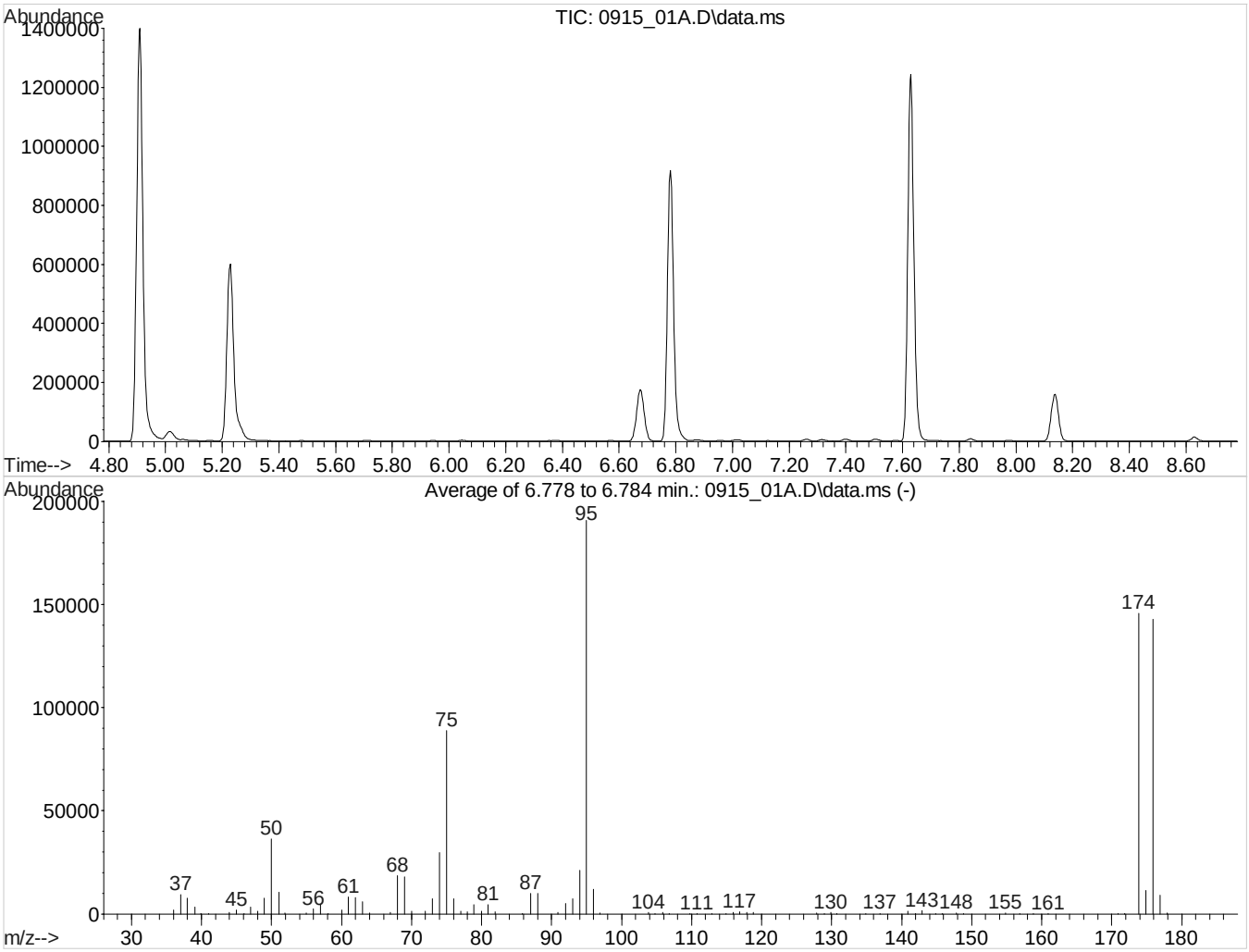
Instrument ID : VOCMS25
Computer Name : VOCCOMPAN
Released By : John A. Heath Jr.
Date Released : 9/16/2015 3:21:59 PM
Run ID : 091515A
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
15	0915_18A	STD VMS 1A PPB 15H20824	V825I15O						1	1	09/15/15 1611	"water IS/SURR15A20860"
16	0915_18 AB	RL VMS 1A PPB 15H20824	V825I15O						1	1	09/15/15 1611	"water IS/SURR15A20860"
17	0915_19A	STD VMS 2.5 PPB 15H20824	V825I15O						1	1	09/15/15 1629	"water IS/SURR15A20860"
18	0915_20A	STD VMS 5 PPB 15H20824	V825I15O						1	1	09/15/15 1647	"water IS/SURR15A20860"
19	0915_21A	STD VMS 7.5 PPB 15H20824	V825I15O						1	1	09/15/15 1705	"water IS/SURR15A20860"
20	0915_22A	MSTD VMS 10A PPB 15H20824	V825I15O						1	1	09/15/15 1724	"water IS/SURR15A20860"
21	0915_23A	STD VMS 12.5 PPB 15H20824	V825I15O						1	1	09/15/15 1742	"water IS/SURR15A20860"
22	0915_24A	STD VMS 15 PPB 15H20824	V825I15O						1	1	09/15/15 1800	"water IS/SURR15A20860"
23	0915_25A	STD VMS 17.5 PPB 15H20824	V825I15O						1	1	09/15/15 1818	"water IS/SURR15A20860"
24	0915_26A	STD VMS 20 PPB 15H20824	V825I15O						1	1	09/15/15 1837	"water IS/SURR15A20860"
25	0915_28A	SSCV VMS 10A PPB 15H19752	V825I15O						1	1	09/15/15 1913	"water IS/SURR15A20860"

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 01A.D
Acq On : 15 Sep 2015 11:00 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15A20860
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V825I15O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
Last Update : Wed Sep 16 15:00:05 2015



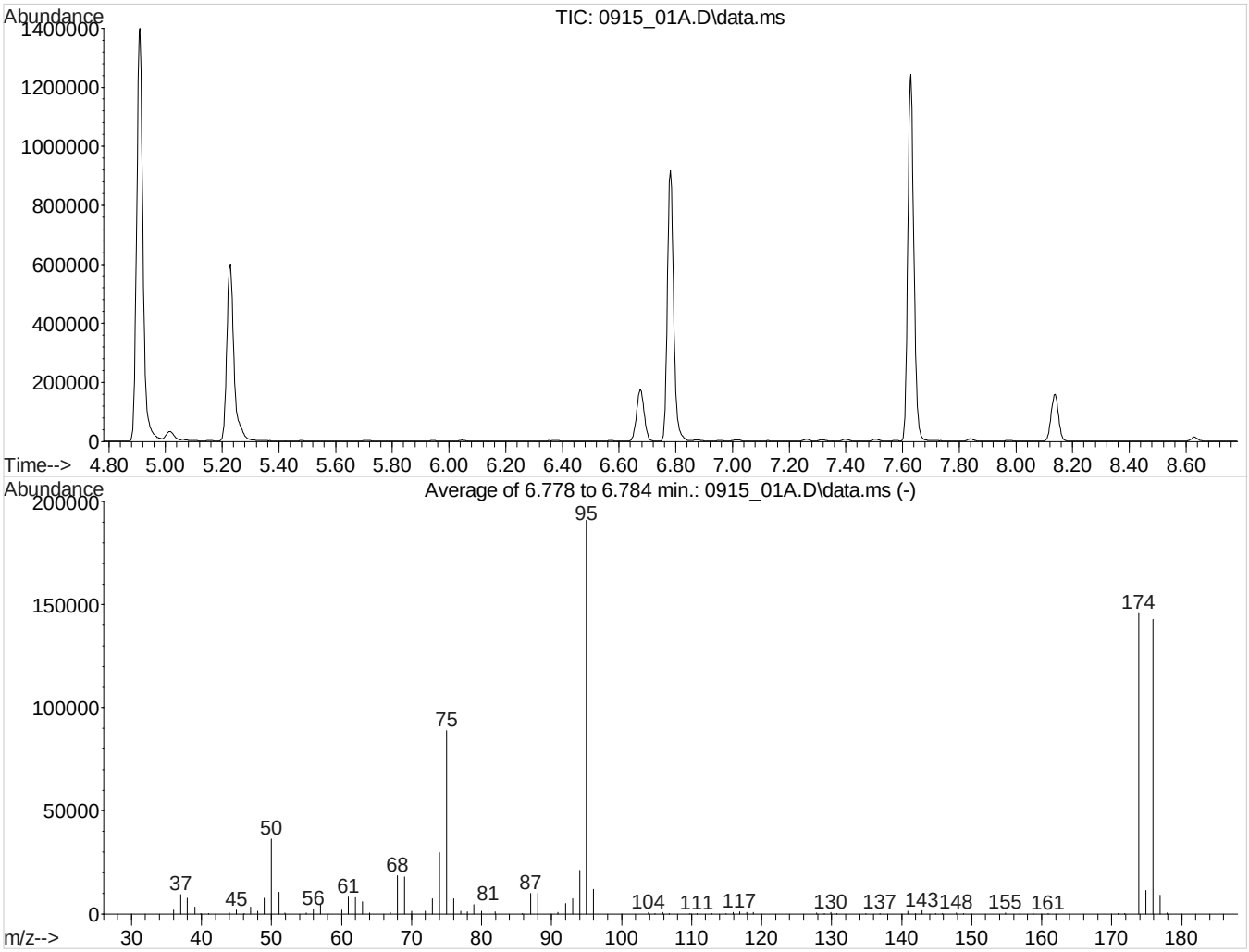
AutoFind: Scans 1769, 1770, 1771; Background Corrected with Scan 1757

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	36243	PASS
75	95	30	60	46.5	88837	PASS
95	95	100	100	100.0	190955	PASS
96	95	5	9	6.3	12000	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	76.3	145771	PASS
175	174	5	9	7.8	11357	PASS
176	174	95	101	98.1	143040	PASS
177	176	5	9	6.4	9089	PASS

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 01A.D
Acq On : 15 Sep 2015 11:00 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15A20860
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V825I15O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
Last Update : Wed Sep 16 15:00:05 2015



AutoFind: Scans 1769, 1770, 1771; Background Corrected with Scan 1757

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	19.0	36243	PASS
75	95	30	60	46.5	88837	PASS
95	95	100	100	100.0	190955	PASS
96	95	5	9	6.3	12000	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	76.3	145771	PASS
175	174	5	9	7.8	11357	PASS
176	174	95	101	98.1	143040	PASS
177	176	5	9	6.4	9089	PASS

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 8260B
Review Protocol : SW846
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:21:59 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.16	0.103	0.082	0.076	0.079	0.068	0.073	0.069										0.088783	34.79	0.999	0
DICHLORODIFLUOROMETHANE	0.569	0.514	0.527	0.533	0.526	0.516	0.513	0.504	0.509	0.514	0.501										0.520576	3.61	0.036	1
CHLOROMETHANE		0.987	0.868	0.809	0.74	0.709	0.713	0.697	0.664	0.692	0.683										0.75628	13.51	0.135	1
VINYL CHLORIDE	0.638	0.561	0.566	0.594	0.584	0.589	0.587	0.593	0.589	0.623	0.629										0.595768	4.12	0.041	1
1,3-BUTADIENE	0.429	0.313	0.306	0.416	0.376	0.398	0.419	0.409	0.4	0.419	0.426										0.391926	11.11	0.111	1
BROMOMETHANE	0.41	0.483	0.57	0.426	0.46	0.43	0.419	0.401	0.4	0.423	0.41										0.43924	11.39	0.114	1
CHLOROETHANE	0.328	0.35	0.322	0.352	0.306	0.305	0.3	0.296	0.298	0.254	0.229										0.303617	12.1	0.121	1
TRICHLOROFLUOROMETHANE	0.732	0.743	0.775	0.76	0.717	0.73	0.729	0.717	0.71	0.742	0.73										0.735035	2.6	0.026	1
DICHLOROFLUOROMETHANE	0.962	1.035	0.986	0.941	0.924	0.892	0.913	0.903	0.863	0.899	0.868										0.926049	5.6	0.056	1
ETHYL ETHER	0.389	0.312	0.37	0.363	0.346	0.342	0.352	0.331	0.324	0.345	0.334										0.346166	6.3	0.063	1
ACROLEIN		0.057	0.064	0.057	0.054	0.061	0.058	0.056	0.056	0.062	0.069										0.059401	7.8	0.078	1
1,1-DICHLOROETHENE	0.738	0.789	0.69	0.714	0.695	0.681	0.695	0.664	0.656	0.669	0.664										0.695883	5.64	0.056	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.442	0.443	0.403	0.432	0.441	0.409	0.435	0.411	0.402	0.409	0.407										0.421258	4	0.04	1
ACETONE		0.301	0.252	0.234	0.232	0.207	0.226	0.215	0.216	0.284	0.279										0.244643	13.41	0.134	1
IODOMETHANE		1.261	1.022	0.95	0.893	0.867	0.864	0.854	0.865	0.847	0.86										0.928202	13.89	0.139	1
CARBON DISULFIDE		2.166	1.834	1.703	1.566	1.526	1.576	1.508	1.48	1.539	1.527										1.642524	12.95	0.13	1
METHYLENE CHLORIDE		0.709	0.63	0.579	0.559	0.53	0.54	0.526	0.528	0.527	0.513										0.564212	10.88	0.109	1
ACRYLONITRILE	0.202	0.177	0.181	0.185	0.187	0.184	0.196	0.189	0.187	0.196	0.189										0.188317	3.9	0.039	1
n-Hexane	0.58	0.504	0.461	0.484	0.488	0.475	0.482	0.453	0.448	0.451	0.438										0.478663	8.21	0.082	1
TRANS-1,2-DICHLOROETHENE	0.524	0.538	0.535	0.529	0.529	0.51	0.506	0.501	0.492	0.492	0.48										0.512327	3.86	0.039	1

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Review Method : 8260B
Review Protocol : SW846
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:21:59 PM

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METHYL TERT-BUTYL ETHER	1.362	1.37	1.267	1.311	1.339	1.267	1.343	1.292	1.269	1.297	1.29										1.309696	2.91	0.029	1
1,1-DICHLOROETHANE	1.041	1.021	1.095	1	1.017	1.004	1.008	0.973	0.966	0.955	0.94										1.001663	4.34	0.043	1
VINYL ACETATE	1.194	1.169	1.074	1.119	1.105	1.164	1.222	1.1	1.113	1.069	1.023										1.122988	5.25	0.052	1
DI-ISOPROPYL ETHER	1.877	1.889	1.965	1.912	1.915	1.904	1.936	1.888	1.835	1.848	1.848										1.892424	2.09	0.021	1
2,2-Dichloropropane	0.802	0.621	0.656	0.634	0.606	0.589	0.629	0.579	0.552	0.561	0.5										0.611741	12.56	0.126	1
CIS-1,2-DICHLOROETHENE	0.608	0.585	0.585	0.572	0.57	0.571	0.574	0.543	0.536	0.544	0.533										0.565601	4.2	0.042	1
2-BUTANONE (MEK)	0.354	0.367	0.321	0.35	0.343	0.343	0.364	0.341	0.349	0.38	0.366										0.352695	4.55	0.045	1
BROMOCHLOROMETHANE	0.356	0.369	0.337	0.352	0.335	0.327	0.343	0.332	0.327	0.333	0.323										0.339313	4.12	0.041	1
TETRAHYDROFURAN	0.216	0.183	0.163	0.19	0.175	0.17	0.176	0.171	0.164	0.192	0.181										0.180011	8.41	0.084	1
CHLOROFORM	0.963	0.983	1.005	1.002	0.959	0.936	0.969	0.929	0.902	0.913	0.895										0.950498	4.02	0.04	1
DIBROMOFLUOROMETHANE	0.623	0.615	0.623	0.621	0.606	0.592	0.605	0.591	0.585	0.585	0.583										0.602579	2.66	0.027	1
1,1,1-TRICHLOROETHANE	0.728	0.739	0.756	0.737	0.716	0.729	0.721	0.723	0.706	0.725	0.698										0.725092	2.19	0.022	1
CARBON TETRACHLORIDE	0.78	0.762	0.83	0.785	0.76	0.767	0.777	0.758	0.747	0.781	0.765										0.773771	2.86	0.029	1
1,1-Dichloropropene	0.702	0.743	0.698	0.737	0.701	0.695	0.704	0.684	0.682	0.672	0.662										0.698326	3.51	0.035	1
2,2,4-TRIMETHYLPENTANE	2.405	2.306	2.305	2.224	2.104	2.173	2.164	2.079	1.956	1.989	1.798										2.136814	8.28	0.083	1
HEPTANE	0.855	0.888	1.167	1.077	1.001	1.035	1.039	1.007	0.989	0.953	0.965										0.997805	8.6	0.086	1
BENZENE	2.479	2.378	2.327	2.214	2.158	2.12	2.076	2.03	1.994	2.027	1.967										2.161054	7.85	0.078	1
1,2-DICHLOROETHANE	0.741	0.668	0.702	0.721	0.707	0.673	0.677	0.676	0.649	0.661	0.638										0.682999	4.58	0.046	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.305	0.324	0.312	0.312	0.312	0.31	0.303	0.298	0.293	0.301	0.299										0.306217	2.83	0.028	1
1,2-DICHLOROPROPANE	0.286	0.245	0.244	0.256	0.253	0.26	0.254	0.252	0.249	0.248	0.244										0.253658	4.7	0.047	1
DIBROMOMETHANE	0.219	0.215	0.193	0.224	0.207	0.213	0.208	0.205	0.2	0.21	0.204										0.208749	4.12	0.041	1

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 8260B
Review Protocol : SW846
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:21:59 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.416	0.41	0.425	0.449	0.43	0.442	0.427	0.428	0.43	0.43	0.425										0.428335	2.49	0.025	1
a,a,a-Trifluorotoluene	0.526	0.536	0.521	0.534	0.518	0.539	0.514	0.503	0.508	0.496	0.48										0.515838	3.53	0.035	1
-CHLOROETHYL VINYL ETHER	0.154	0.169	0.164	0.178	0.169	0.179	0.179	0.174	0.174	0.181	0.176										0.172411	4.61	0.046	1
CIS-1,3-DICHLOROPROPENE	0.487	0.526	0.534	0.524	0.515	0.544	0.526	0.533	0.523	0.529	0.533										0.52478	2.81	0.028	1
4-METHYL-2-PENTANONE (MIBK)	0.309	0.321	0.304	0.344	0.348	0.366	0.378	0.363	0.361	0.382	0.376										0.35017	7.91	0.079	1
TOLUENE-D8	1.205	1.217	1.201	1.209	1.149	1.182	1.162	1.145	1.144	1.128	1.12										1.169282	2.99	0.03	1
TOLUENE	1.576	1.406	1.395	1.335	1.247	1.273	1.24	1.229	1.2	1.244	1.256										1.309243	8.51	0.085	1
TRANS-1,3-DICHLOROPROPENE	0.435	0.437	0.439	0.443	0.451	0.48	0.49	0.483	0.477	0.49	0.485										0.464438	4.99	0.05	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.525	1.563	1.553	1.559	1.61	1.548	1.551	1.574	1.567	1.647	1.609										1.573326	2.23	0.022	1
TETRACHLOROETHENE	1.299	1.312	1.412	1.399	1.323	1.285	1.315	1.322	1.314	1.403	1.389										1.343089	3.51	0.035	1
1,3-Dichloropropane	3.058	3.036	2.78	2.725	2.871	2.689	2.663	2.667	2.722	2.789	2.672										2.788388	5.11	0.051	1
2-HEXANONE	0.727	0.689	0.704	0.73	0.832	0.791	0.875	0.889	0.917	0.984	0.957										0.826602	12.72	0.127	1
CHLORODIBROMOMETHANE	1.479	1.762	1.702	1.808	1.877	1.788	1.841	1.896	1.892	2.021	1.938										1.818577	7.86	0.079	1
1,2-DIBROMOETHANE	1.78	1.809	1.637	1.767	1.76	1.663	1.682	1.668	1.682	1.771	1.705										1.720374	3.38	0.034	1
CHLOROBENZENE	4.78	4.706	4.7	4.649	4.767	4.56	4.585	4.72	4.638	4.915	4.825										4.713279	2.23	0.022	1
1,1,1,2-TETRACHLOROETHANE	1.424	1.459	1.543	1.682	1.702	1.586	1.598	1.628	1.642	1.713	1.698										1.606815	6.1	0.061	1
ETHYLBENZENE	2.166	2.455	2.398	2.452	2.41	2.339	2.413	2.469	2.416	2.53	2.543										2.417292	4.21	0.042	1
M&P-XYLENE	3.29	2.975	3.101	3.049	3.094	2.95	3.021	3.034	3.022	3.175	3.18										3.080978	3.27	0.033	1
O-XYLENE	3.039	2.741	2.951	2.96	3.005	2.83	2.895	2.946	2.925	3.109	3.002										2.945795	3.4	0.034	1
STYRENE	4.741	4.908	4.554	4.666	4.892	4.697	4.936	5.005	4.887	5.271	5.056										4.873973	4.15	0.041	1
Bromoform	1.09	1.057	1.081	1.072	1.174	1.112	1.177	1.211	1.227	1.3	1.258										1.159967	7.14	0.071	1

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Instrument ID : VOCMS25
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Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	7.321	7.656	7.482	7.502	7.515	7.438	7.581	7.57	7.391	8.044	7.821										7.5747	2.71	0.027	1
4-BROMOFLUOROBENZENE	2.492	2.553	2.544	2.578	2.553	2.47	2.435	2.514	2.528	2.533	2.433										2.512006	1.94	0.019	1
Bromobenzene	3.706	3.914	3.714	3.556	3.711	3.388	3.505	3.638	3.422	3.658	3.574										3.616714	4.15	0.041	1
1,1,2,2-TETRACHLOROETHANE	2.326	2.48	2.529	2.349	2.347	2.227	2.306	2.284	2.312	2.472	2.335										2.360564	3.93	0.039	1
1,2,3-TRICHLOROPROPANE		0.468	0.48	0.449	0.535	0.519	0.522	0.53	0.537	0.587	0.552										0.51802	7.96	0.08	1
TRANS-1,4-DICHLORO-2-BUTENE		0.74	0.506	0.536	0.558	0.562	0.587	0.601	0.58	0.643	0.623										0.593522	10.99	0.11	1
n-Propylbenzene	9.57	9.823	9.657	9.296	9.439	8.878	9.279	9.558	9.144	9.835	9.665										9.467634	3.12	0.031	1
4-ETHYLTOLUENE	7.948	8.005	7.675	7.556	7.78	7.44	7.539	7.8	7.473	8.094	7.93										7.749036	2.94	0.029	1
2-Chlorotoluene	1.66	1.996	1.912	1.823	1.922	1.775	1.767	1.832	1.804	1.913	1.869										1.842946	5.03	0.05	1
4-Chlorotoluene	5.599	5.965	5.611	5.523	5.53	5.409	5.427	5.409	5.47	5.69	5.676										5.573658	2.95	0.029	1
1,3,5-Trimethylbenzene	6.268	6.044	6.245	6.038	6.165	5.922	5.988	6.2	6.107	6.727	6.545										6.204331	3.9	0.039	1
tert-Butylbenzene	4.889	4.693	5.08	5.017	5.053	4.752	4.783	5.084	4.976	5.359	5.28										4.996985	4.2	0.042	1
1,2,4-Trimethylbenzene	6.976	6.311	6.175	6.319	6.156	5.878	6.041	6.18	6.023	6.549	6.364										6.270433	4.75	0.047	1
sec-Butylbenzene	8.224	7.781	7.871	8.247	8.195	7.946	8.03	8.135	7.882	8.738	8.571										8.147266	3.65	0.036	1
1,3-DICHLOROBENZENE	3.534	3.593	3.653	3.592	3.558	3.482	3.437	3.441	3.306	3.646	3.538										3.525402	2.92	0.029	1
p-Isopropyltoluene	6.294	6.676	6.556	6.267	6.489	6.345	6.582	6.391	6.319	6.937	7.097										6.541199	4.15	0.041	1
DICYCLOPENTADIENE	8.579	9.04	8.666	8.499	8.831	8.36	8.667	8.498	8.35	8.922	8.708										8.646979	2.55	0.026	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.703	1.565	1.523	1.406	1.386	1.371	1.356	1.331	1.323	1.359	1.394										1.428773	8.29	0.083	1
1,2,3-TRIMETHYLBENZENE	2.63	2.603	2.446	2.464	2.459	2.418	2.45	2.382	2.378	2.493	2.587										2.482864	3.51	0.035	1
1,2-DICHLOROBENZENE	1.343	1.402	1.327	1.267	1.272	1.269	1.253	1.261	1.248	1.276	1.279										1.290547	3.66	0.037	1
n-Butylbenzene	2.443	2.531	2.49	2.455	2.427	2.468	2.454	2.407	2.435	2.508	2.546										2.469417	1.79	0.018	1

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1,2-Dibromo-3-chloropropane			0.127	0.144	0.13	0.135	0.15	0.141	0.156	0.166	0.164										0.145891	9.75	0.097	1
1,2,4-Trichlorobenzene	0.84	0.848	0.806	0.758	0.795	0.763	0.768	0.728	0.761	0.852	0.938										0.805236	7.49	0.075	1
HEXACHLORO-1,3-BUTADIENE	0.456	0.458	0.441	0.428	0.436	0.403	0.407	0.393	0.406	0.453	0.497										0.43442	7.13	0.071	1
Naphthalene	2.313	2.153	1.915	1.944	1.806	1.841	1.987	1.955	2.038	2.235	2.312										2.045296	8.86	0.089	1
1,2,3-Trichlorobenzene	0.851	0.796	0.744	0.713	0.718	0.714	0.715	0.678	0.706	0.807	0.827										0.751692	7.69	0.077	1
1-Methylnaphthalene	1.262	1.049	0.917	0.912	0.897	0.951	0.969	0.929	0.975	1.157	1.118										1.012387	11.78	0.118	1
2-Methylnaphthalene	1.042	0.891	0.798	0.772	0.775	0.763	0.792	0.771	0.778	0.934	0.912										0.838919	10.97	0.11	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.004	0.005	0.004	0.005	0.005	0.004	0.004	0.004	0.005	0.004381	8.32	0.083	1
Bromoethane												0.412	0.426	0.42	0.412	0.391	0.385	0.395	0.383	0.395	0.402219	3.89	0.039	1
2-PROPANOL																					0	0	0	1
Methyl Acetate												0.386	0.423	0.424	0.416	0.383	0.379	0.392	0.4	0.39	0.399253	4.4	0.044	1
ACETONITRILE												0.057	0.059	0.071	0.069	0.066	0.063	0.066	0.067	0.066	0.064874	7.13	0.071	1
ALLYL CHLORIDE												0.228	0.242	0.239	0.242	0.229	0.222	0.237	0.231	0.228	0.233088	3.08	0.031	1
tert-BUTYL ALCOHOL												0.082	0.085	0.092	0.098	0.094	0.088	0.094	0.098	0.095	0.091829	6.14	0.061	1
chloroprene												0.731	0.757	0.761	0.743	0.724	0.705	0.704	0.713	0.704	0.727051	3.08	0.031	1
ETHYL TERT-BUTYL ETHER												1.456	1.555	1.541	1.54	1.511	1.436	1.468	1.407	1.426	1.482265	3.75	0.037	1
PROPIONITRILE												0.071	0.076	0.078	0.075	0.072	0.071	0.072	0.073	0.071	0.073275	3.57	0.036	1
Ethyl Acetate												0.51	0.557	0.56	0.55	0.532	0.526	0.538	0.544	0.52	0.537213	3.14	0.031	1
METHACRYLONITRILE												0.204	0.223	0.215	0.211	0.204	0.202	0.204	0.203	0.2	0.207296	3.58	0.036	1
Cyclohexane												1.224	1.282	1.259	1.244	1.178	1.173	1.185	1.141	1.146	1.203495	4.2	0.042	1
tert-butyl formate												0.309	0.327	0.338	0.332	0.335	0.327	0.33	0.323	0.326	0.327638	2.58	0.026	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 8260B
Review Protocol : SW846
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:21:59 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.029	0.034	0.033	0.034	0.034	0.032	0.035	0.035	0.034	0.033421	5.69	0.057	1
2-Amyl Alcohol												0.044	0.037	0.043	0.044	0.044	0.041	0.043	0.046	0.047	0.043316	7.36	0.074	1
TERT-AMYL METHYL ETHER												1.597	1.736	1.629	1.601	1.608	1.592	1.622	1.543	1.55	1.608648	3.47	0.035	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.008	0.009	0.009	0.01	0.009	0.009	0.01	0.01	0.01	0.009315	8.4	0.084	1
Methyl Cyclohexane												1.051	0.828	0.738	0.703	0.692	0.679	0.668	0.654	0.67	0.742567	17.1	1	0
2-nitropropane												0.085	0.09	0.09	0.094	0.09	0.089	0.089	0.093	0.092	0.090139	3	0.03	1
METHYL METHACRYLATE												0.282	0.315	0.326	0.322	0.312	0.311	0.31	0.313	0.321	0.312635	4.07	0.041	1
1,4-DIOXANE												0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002995	9.95	0.1	1
n-octane												0.225	0.24	0.241	0.25	0.239	0.235	0.246	0.242	0.24	0.239894	2.92	0.029	1
3,3-DIMETHYL-1-BUTANOL												0.038	0.039	0.04	0.043	0.041	0.039	0.043	0.044	0.045	0.041344	6.46	0.065	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.633	2.122	2.116	2.115	2.075	2.024	2.202	2.16	2.087	2.059357	8.13	0.081	1
CIS-1,4-DICHLORO-2-BUTENE												0.542	0.6	0.616	0.605	0.604	0.604	0.641	0.638	0.603	0.605857	4.69	0.047	1
Cyclohexanone												0.451	0.529	0.521	0.486	0.493	0.473	0.503	0.517	0.503	0.497525	4.97	0.05	1
PENTACHLOROETHANE												1.103	1.207	1.172	1.158	1.175	1.189	1.285	1.195	1.206	1.187876	4.07	0.041	1
Hexachloroethane												1.189	1.459	1.403	1.466	1.41	1.437	1.557	1.455	1.48	1.42858	7.02	0.07	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 601-602
Review Protocol : EPA
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:19:39 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
4260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.16	0.103	0.082	0.076	0.079	0.068	0.073	0.069										0.088783	34.79	0.999	0
DICHLORODIFLUOROMETHANE	0.569	0.514	0.527	0.533	0.526	0.516	0.513	0.504	0.509	0.514	0.501										0.520576	3.61	0.036	1
CHLOROMETHANE		0.987	0.868	0.809	0.74	0.709	0.713	0.697	0.664	0.692	0.683										0.75628	13.51	0.135	1
VINYL CHLORIDE	0.638	0.561	0.566	0.594	0.584	0.589	0.587	0.593	0.589	0.623	0.629										0.595768	4.12	0.041	1
1,3-BUTADIENE	0.429	0.313	0.306	0.416	0.376	0.398	0.419	0.409	0.4	0.419	0.426										0.391926	11.11	0.111	1
BROMOMETHANE	0.41	0.483	0.57	0.426	0.46	0.43	0.419	0.401	0.4	0.423	0.41										0.43924	11.39	0.114	1
CHLOROETHANE	0.328	0.35	0.322	0.352	0.306	0.305	0.3	0.296	0.298	0.254	0.229										0.303617	12.1	0.121	1
TRICHLOROFLUOROMETHANE	0.732	0.743	0.775	0.76	0.717	0.73	0.729	0.717	0.71	0.742	0.73										0.735035	2.6	0.026	1
DICHLOROFLUOROMETHANE	0.962	1.035	0.986	0.941	0.924	0.892	0.913	0.903	0.863	0.899	0.868										0.926049	5.6	0.056	1
ETHYL ETHER	0.389	0.312	0.37	0.363	0.346	0.342	0.352	0.331	0.324	0.345	0.334										0.346166	6.3	0.063	1
ACROLEIN		0.057	0.064	0.057	0.054	0.061	0.058	0.056	0.056	0.062	0.069										0.059401	7.8	0.078	1
1,1-DICHLOROETHENE	0.738	0.789	0.69	0.714	0.695	0.681	0.695	0.664	0.656	0.669	0.664										0.695883	5.64	0.056	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.442	0.443	0.403	0.432	0.441	0.409	0.435	0.411	0.402	0.409	0.407										0.421258	4	0.04	1
ACETONE		0.301	0.252	0.234	0.232	0.207	0.226	0.215	0.216	0.284	0.279										0.244643	13.41	0.134	1
IODOMETHANE		1.261	1.022	0.95	0.893	0.867	0.864	0.854	0.865	0.847	0.86										0.928202	13.89	0.139	1
CARBON DISULFIDE		2.166	1.834	1.703	1.566	1.526	1.576	1.508	1.48	1.539	1.527										1.642524	12.95	0.13	1
METHYLENE CHLORIDE		0.709	0.63	0.579	0.559	0.53	0.54	0.526	0.528	0.527	0.513										0.564212	10.88	0.109	1
ACRYLONITRILE	0.202	0.177	0.181	0.185	0.187	0.184	0.196	0.189	0.187	0.196	0.189										0.188317	3.9	0.039	1
n-Hexane	0.58	0.504	0.461	0.484	0.488	0.475	0.482	0.453	0.448	0.451	0.438										0.478663	8.21	0.082	1
TRANS-1,2-DICHLOROETHENE	0.524	0.538	0.535	0.529	0.529	0.51	0.506	0.501	0.492	0.492	0.48										0.512327	3.86	0.039	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 601-602
Review Protocol : EPA
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:19:39 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.362	1.37	1.267	1.311	1.339	1.267	1.343	1.292	1.269	1.297	1.29										1.309696	2.91	0.029	1
1,1-DICHLOROETHANE	1.041	1.021	1.095	1	1.017	1.004	1.008	0.973	0.966	0.955	0.94										1.001663	4.34	0.043	1
VINYL ACETATE	1.194	1.169	1.074	1.119	1.105	1.164	1.222	1.1	1.113	1.069	1.023										1.122988	5.25	0.052	1
DI-ISOPROPYL ETHER	1.877	1.889	1.965	1.912	1.915	1.904	1.936	1.888	1.835	1.848	1.848										1.892424	2.09	0.021	1
2,2-Dichloropropane	0.802	0.621	0.656	0.634	0.606	0.589	0.629	0.579	0.552	0.561	0.5										0.611741	12.56	0.126	1
CIS-1,2-DICHLOROETHENE	0.608	0.585	0.585	0.572	0.57	0.571	0.574	0.543	0.536	0.544	0.533										0.565601	4.2	0.042	1
2-BUTANONE (MEK)	0.354	0.367	0.321	0.35	0.343	0.343	0.364	0.341	0.349	0.38	0.366										0.352695	4.55	0.045	1
BROMOCHLOROMETHANE	0.356	0.369	0.337	0.352	0.335	0.327	0.343	0.332	0.327	0.333	0.323										0.339313	4.12	0.041	1
TETRAHYDROFURAN	0.216	0.183	0.163	0.19	0.175	0.17	0.176	0.171	0.164	0.192	0.181										0.180011	8.41	0.084	1
CHLOROFORM	0.963	0.983	1.005	1.002	0.959	0.936	0.969	0.929	0.902	0.913	0.895										0.950498	4.02	0.04	1
DIBROMOFLUOROMETHANE	0.623	0.615	0.623	0.621	0.606	0.592	0.605	0.591	0.585	0.585	0.583										0.602579	2.66	0.027	1
1,1,1-TRICHLOROETHANE	0.728	0.739	0.756	0.737	0.716	0.729	0.721	0.723	0.706	0.725	0.698										0.725092	2.19	0.022	1
CARBON TETRACHLORIDE	0.78	0.762	0.83	0.785	0.76	0.767	0.777	0.758	0.747	0.781	0.765										0.773771	2.86	0.029	1
1,1-Dichloropropene	0.702	0.743	0.698	0.737	0.701	0.695	0.704	0.684	0.682	0.672	0.662										0.698326	3.51	0.035	1
2,2,4-TRIMETHYLPENTANE	2.405	2.306	2.305	2.224	2.104	2.173	2.164	2.079	1.956	1.989	1.798										2.136814	8.28	0.083	1
HEPTANE	0.855	0.888	1.167	1.077	1.001	1.035	1.039	1.007	0.989	0.953	0.965										0.997805	8.6	0.086	1
BENZENE	2.479	2.378	2.327	2.214	2.158	2.12	2.076	2.03	1.994	2.027	1.967										2.161054	7.85	0.078	1
1,2-DICHLOROETHANE	0.741	0.668	0.702	0.721	0.707	0.673	0.677	0.676	0.649	0.661	0.638										0.682999	4.58	0.046	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.305	0.324	0.312	0.312	0.312	0.31	0.303	0.298	0.293	0.301	0.299										0.306217	2.83	0.028	1
1,2-DICHLOROPROPANE	0.286	0.245	0.244	0.256	0.253	0.26	0.254	0.252	0.249	0.248	0.244										0.253658	4.7	0.047	1
DIBROMOMETHANE	0.219	0.215	0.193	0.224	0.207	0.213	0.208	0.205	0.2	0.21	0.204										0.208749	4.12	0.041	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 601-602
Review Protocol : EPA
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:19:39 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.416	0.41	0.425	0.449	0.43	0.442	0.427	0.428	0.43	0.43	0.425										0.428335	2.49	0.025	1
a,a,a-Trifluorotoluene	0.526	0.536	0.521	0.534	0.518	0.539	0.514	0.503	0.508	0.496	0.48										0.515838	3.53	0.035	1
-CHLOROETHYL VINYL ETHER	0.154	0.169	0.164	0.178	0.169	0.179	0.179	0.174	0.174	0.181	0.176										0.172411	4.61	0.046	1
CIS-1,3-DICHLOROPROPENE	0.487	0.526	0.534	0.524	0.515	0.544	0.526	0.533	0.523	0.529	0.533										0.52478	2.81	0.028	1
4-METHYL-2-PENTANONE (MIBK)	0.309	0.321	0.304	0.344	0.348	0.366	0.378	0.363	0.361	0.382	0.376										0.35017	7.91	0.079	1
TOLUENE-D8	1.205	1.217	1.201	1.209	1.149	1.182	1.162	1.145	1.144	1.128	1.12										1.169282	2.99	0.03	1
TOLUENE	1.576	1.406	1.395	1.335	1.247	1.273	1.24	1.229	1.2	1.244	1.256										1.309243	8.51	0.085	1
TRANS-1,3-DICHLOROPROPENE	0.435	0.437	0.439	0.443	0.451	0.48	0.49	0.483	0.477	0.49	0.485										0.464438	4.99	0.05	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.525	1.563	1.553	1.559	1.61	1.548	1.551	1.574	1.567	1.647	1.609										1.573326	2.23	0.022	1
TETRACHLOROETHENE	1.299	1.312	1.412	1.399	1.323	1.285	1.315	1.322	1.314	1.403	1.389										1.343089	3.51	0.035	1
1,3-Dichloropropane	3.058	3.036	2.78	2.725	2.871	2.689	2.663	2.667	2.722	2.789	2.672										2.788388	5.11	0.051	1
2-HEXANONE	0.727	0.689	0.704	0.73	0.832	0.791	0.875	0.889	0.917	0.984	0.957										0.826602	12.72	0.127	1
CHLORODIBROMOMETHANE	1.479	1.762	1.702	1.808	1.877	1.788	1.841	1.896	1.892	2.021	1.938										1.818577	7.86	0.079	1
1,2-DIBROMOETHANE	1.78	1.809	1.637	1.767	1.76	1.663	1.682	1.668	1.682	1.771	1.705										1.720374	3.38	0.034	1
CHLOROBENZENE	4.78	4.706	4.7	4.649	4.767	4.56	4.585	4.72	4.638	4.915	4.825										4.713279	2.23	0.022	1
1,1,1,2-TETRACHLOROETHANE	1.424	1.459	1.543	1.682	1.702	1.586	1.598	1.628	1.642	1.713	1.698										1.606815	6.1	0.061	1
ETHYLBENZENE	2.166	2.455	2.398	2.452	2.41	2.339	2.413	2.469	2.416	2.53	2.543										2.417292	4.21	0.042	1
M&P-XYLENE	3.29	2.975	3.101	3.049	3.094	2.95	3.021	3.034	3.022	3.175	3.18										3.080978	3.27	0.033	1
O-XYLENE	3.039	2.741	2.951	2.96	3.005	2.83	2.895	2.946	2.925	3.109	3.002										2.945795	3.4	0.034	1
STYRENE	4.741	4.908	4.554	4.666	4.892	4.697	4.936	5.005	4.887	5.271	5.056										4.873973	4.15	0.041	1
Bromoform	1.09	1.057	1.081	1.072	1.174	1.112	1.177	1.211	1.227	1.3	1.258										1.159967	7.14	0.071	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 601-602
Review Protocol : EPA
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:19:39 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	7.321	7.656	7.482	7.502	7.515	7.438	7.581	7.57	7.391	8.044	7.821										7.5747	2.71	0.027	1
4-BROMOFLUOROBENZENE	2.492	2.553	2.544	2.578	2.553	2.47	2.435	2.514	2.528	2.533	2.433										2.512006	1.94	0.019	1
Bromobenzene	3.706	3.914	3.714	3.556	3.711	3.388	3.505	3.638	3.422	3.658	3.574										3.616714	4.15	0.041	1
1,1,2,2-TETRACHLOROETHANE	2.326	2.48	2.529	2.349	2.347	2.227	2.306	2.284	2.312	2.472	2.335										2.360564	3.93	0.039	1
1,2,3-TRICHLOROPROPANE		0.468	0.48	0.449	0.535	0.519	0.522	0.53	0.537	0.587	0.552										0.51802	7.96	0.08	1
TRANS-1,4-DICHLORO-2-BUTENE		0.74	0.506	0.536	0.558	0.562	0.587	0.601	0.58	0.643	0.623										0.593522	10.99	0.11	1
n-Propylbenzene	9.57	9.823	9.657	9.296	9.439	8.878	9.279	9.558	9.144	9.835	9.665										9.467634	3.12	0.031	1
4-ETHYLTOLUENE	7.948	8.005	7.675	7.556	7.78	7.44	7.539	7.8	7.473	8.094	7.93										7.749036	2.94	0.029	1
2-Chlorotoluene	1.66	1.996	1.912	1.823	1.922	1.775	1.767	1.832	1.804	1.913	1.869										1.842946	5.03	0.05	1
4-Chlorotoluene	5.599	5.965	5.611	5.523	5.53	5.409	5.427	5.409	5.47	5.69	5.676										5.573658	2.95	0.029	1
1,3,5-Trimethylbenzene	6.268	6.044	6.245	6.038	6.165	5.922	5.988	6.2	6.107	6.727	6.545										6.204331	3.9	0.039	1
tert-Butylbenzene	4.889	4.693	5.08	5.017	5.053	4.752	4.783	5.084	4.976	5.359	5.28										4.996985	4.2	0.042	1
1,2,4-Trimethylbenzene	6.976	6.311	6.175	6.319	6.156	5.878	6.041	6.18	6.023	6.549	6.364										6.270433	4.75	0.047	1
sec-Butylbenzene	8.224	7.781	7.871	8.247	8.195	7.946	8.03	8.135	7.882	8.738	8.571										8.147266	3.65	0.036	1
1,3-DICHLOROBENZENE	3.534	3.593	3.653	3.592	3.558	3.482	3.437	3.441	3.306	3.646	3.538										3.525402	2.92	0.029	1
p-Isopropyltoluene	6.294	6.676	6.556	6.267	6.489	6.345	6.582	6.391	6.319	6.937	7.097										6.541199	4.15	0.041	1
DICYCLOPENTADIENE	8.579	9.04	8.666	8.499	8.831	8.36	8.667	8.498	8.35	8.922	8.708										8.646979	2.55	0.026	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.703	1.565	1.523	1.406	1.386	1.371	1.356	1.331	1.323	1.359	1.394										1.428773	8.29	0.083	1
1,2,3-TRIMETHYLBENZENE	2.63	2.603	2.446	2.464	2.459	2.418	2.45	2.382	2.378	2.493	2.587										2.482864	3.51	0.035	1
1,2-DICHLOROBENZENE	1.343	1.402	1.327	1.267	1.272	1.269	1.253	1.261	1.248	1.276	1.279										1.290547	3.66	0.037	1
n-Butylbenzene	2.443	2.531	2.49	2.455	2.427	2.468	2.454	2.407	2.435	2.508	2.546										2.469417	1.79	0.018	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 601-602
Review Protocol : EPA
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:19:39 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane			0.127	0.144	0.13	0.135	0.15	0.141	0.156	0.166	0.164										0.145891	9.75	0.097	1
1,2,4-Trichlorobenzene	0.84	0.848	0.806	0.758	0.795	0.763	0.768	0.728	0.761	0.852	0.938										0.805236	7.49	0.075	1
HEXACHLORO-1,3-BUTADIENE	0.456	0.458	0.441	0.428	0.436	0.403	0.407	0.393	0.406	0.453	0.497										0.43442	7.13	0.071	1
Naphthalene	2.313	2.153	1.915	1.944	1.806	1.841	1.987	1.955	2.038	2.235	2.312										2.045296	8.86	0.089	1
1,2,3-Trichlorobenzene	0.851	0.796	0.744	0.713	0.718	0.714	0.715	0.678	0.706	0.807	0.827										0.751692	7.69	0.077	1
1-Methylnaphthalene	1.262	1.049	0.917	0.912	0.897	0.951	0.969	0.929	0.975	1.157	1.118										1.012387	11.78	0.118	1
2-Methylnaphthalene	1.042	0.891	0.798	0.772	0.775	0.763	0.792	0.771	0.778	0.934	0.912										0.838919	10.97	0.11	1
4P9-PENTAFLUOROBENZENE																								
ETHANOL												0.004	0.005	0.004	0.005	0.005	0.004	0.004	0.004	0.005	0.004381	8.32	0.083	1
Bromoethane												0.412	0.426	0.42	0.412	0.391	0.385	0.395	0.383	0.395	0.402219	3.89	0.039	1
2-PROPANOL																					0	0	0	1
Methyl Acetate												0.386	0.423	0.424	0.416	0.383	0.379	0.392	0.4	0.39	0.399253	4.4	0.044	1
ACETONITRILE												0.057	0.059	0.071	0.069	0.066	0.063	0.066	0.067	0.066	0.064874	7.13	0.071	1
ALLYL CHLORIDE												0.228	0.242	0.239	0.242	0.229	0.222	0.237	0.231	0.228	0.233088	3.08	0.031	1
tert-BUTYL ALCOHOL												0.082	0.085	0.092	0.098	0.094	0.088	0.094	0.098	0.095	0.091829	6.14	0.061	1
chloroprene												0.731	0.757	0.761	0.743	0.724	0.705	0.704	0.713	0.704	0.727051	3.08	0.031	1
ETHYL TERT-BUTYL ETHER												1.456	1.555	1.541	1.54	1.511	1.436	1.468	1.407	1.426	1.482265	3.75	0.037	1
PROPIONITRILE												0.071	0.076	0.078	0.075	0.072	0.071	0.072	0.073	0.071	0.073275	3.57	0.036	1
Ethyl Acetate												0.51	0.557	0.56	0.55	0.532	0.526	0.538	0.544	0.52	0.537213	3.14	0.031	1
METHACRYLONITRILE												0.204	0.223	0.215	0.211	0.204	0.202	0.204	0.203	0.2	0.207296	3.58	0.036	1
Cyclohexane												1.224	1.282	1.259	1.244	1.178	1.173	1.185	1.141	1.146	1.203495	4.2	0.042	1
tert-butyl formate												0.309	0.327	0.338	0.332	0.335	0.327	0.33	0.323	0.326	0.327638	2.58	0.026	1

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 601-602
Review Protocol : EPA
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:19:39 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.029	0.034	0.033	0.034	0.034	0.032	0.035	0.035	0.034	0.033421	5.69	0.057	1
2-Amyl Alcohol												0.044	0.037	0.043	0.044	0.044	0.041	0.043	0.046	0.047	0.043316	7.36	0.074	1
TERT-AMYL METHYL ETHER												1.597	1.736	1.629	1.601	1.608	1.592	1.622	1.543	1.55	1.608648	3.47	0.035	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.008	0.009	0.009	0.01	0.009	0.009	0.01	0.01	0.01	0.009315	8.4	0.084	1
Methyl Cyclohexane												1.051	0.828	0.738	0.703	0.692	0.679	0.668	0.654	0.67	0.742567	17.1	1	0
2-nitropropane												0.085	0.09	0.09	0.094	0.09	0.089	0.089	0.093	0.092	0.090139	3	0.03	1
METHYL METHACRYLATE												0.282	0.315	0.326	0.322	0.312	0.311	0.31	0.313	0.321	0.312635	4.07	0.041	1
1,4-DIOXANE												0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002995	9.95	0.1	1
n-octane												0.225	0.24	0.241	0.25	0.239	0.235	0.246	0.242	0.24	0.239894	2.92	0.029	1
3,3-DIMETHYL-1-BUTANOL												0.038	0.039	0.04	0.043	0.041	0.039	0.043	0.044	0.045	0.041344	6.46	0.065	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.633	2.122	2.116	2.115	2.075	2.024	2.202	2.16	2.087	2.059357	8.13	0.081	1
CIS-1,4-DICHLORO-2-BUTENE												0.542	0.6	0.616	0.605	0.604	0.604	0.641	0.638	0.603	0.605857	4.69	0.047	1
Cyclohexanone												0.451	0.529	0.521	0.486	0.493	0.473	0.503	0.517	0.503	0.497525	4.97	0.05	1
PENTACHLOROETHANE												1.103	1.207	1.172	1.158	1.175	1.189	1.285	1.195	1.206	1.187876	4.07	0.041	1
Hexachloroethane												1.189	1.459	1.403	1.466	1.41	1.437	1.557	1.455	1.48	1.42858	7.02	0.07	1
AP9-1,4-DICHLOROBENZENE-D4																								

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 624
Review Protocol : EPA
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Released On : 9/16/2015 3:20:09 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
2260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.16	0.103	0.082	0.076	0.079	0.068	0.073	0.069										0.088783	34.79	0.999	0
DICHLORODIFLUOROMETHANE	0.569	0.514	0.527	0.533	0.526	0.516	0.513	0.504	0.509	0.514	0.501										0.520576	3.61	0.036	1
CHLOROMETHANE		0.987	0.868	0.809	0.74	0.709	0.713	0.697	0.664	0.692	0.683										0.75628	13.51	0.135	1
VINYL CHLORIDE	0.638	0.561	0.566	0.594	0.584	0.589	0.587	0.593	0.589	0.623	0.629										0.595768	4.12	0.041	1
1,3-BUTADIENE	0.429	0.313	0.306	0.416	0.376	0.398	0.419	0.409	0.4	0.419	0.426										0.391926	11.11	0.111	1
BROMOMETHANE	0.41	0.483	0.57	0.426	0.46	0.43	0.419	0.401	0.4	0.423	0.41										0.43924	11.39	0.114	1
CHLOROETHANE	0.328	0.35	0.322	0.352	0.306	0.305	0.3	0.296	0.298	0.254	0.229										0.303617	12.1	0.121	1
TRICHLOROFLUOROMETHANE	0.732	0.743	0.775	0.76	0.717	0.73	0.729	0.717	0.71	0.742	0.73										0.735035	2.6	0.026	1
DICHLOROFLUOROMETHANE	0.962	1.035	0.986	0.941	0.924	0.892	0.913	0.903	0.863	0.899	0.868										0.926049	5.6	0.056	1
ETHYL ETHER	0.389	0.312	0.37	0.363	0.346	0.342	0.352	0.331	0.324	0.345	0.334										0.346166	6.3	0.063	1
ACROLEIN		0.057	0.064	0.057	0.054	0.061	0.058	0.056	0.056	0.062	0.069										0.059401	7.8	0.078	1
1,1-DICHLOROETHENE	0.738	0.789	0.69	0.714	0.695	0.681	0.695	0.664	0.656	0.669	0.664										0.695883	5.64	0.056	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.442	0.443	0.403	0.432	0.441	0.409	0.435	0.411	0.402	0.409	0.407										0.421258	4	0.04	1
ACETONE		0.301	0.252	0.234	0.232	0.207	0.226	0.215	0.216	0.284	0.279										0.244643	13.41	0.134	1
IODOMETHANE		1.261	1.022	0.95	0.893	0.867	0.864	0.854	0.865	0.847	0.86										0.928202	13.89	0.139	1
CARBON DISULFIDE		2.166	1.834	1.703	1.566	1.526	1.576	1.508	1.48	1.539	1.527										1.642524	12.95	0.13	1
METHYLENE CHLORIDE		0.709	0.63	0.579	0.559	0.53	0.54	0.526	0.528	0.527	0.513										0.564212	10.88	0.109	1
ACRYLONITRILE	0.202	0.177	0.181	0.185	0.187	0.184	0.196	0.189	0.187	0.196	0.189										0.188317	3.9	0.039	1
n-Hexane	0.58	0.504	0.461	0.484	0.488	0.475	0.482	0.453	0.448	0.451	0.438										0.478663	8.21	0.082	1
TRANS-1,2-DICHLOROETHENE	0.524	0.538	0.535	0.529	0.529	0.51	0.506	0.501	0.492	0.492	0.48										0.512327	3.86	0.039	1

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 624
Review Protocol : EPA
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:20:09 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.362	1.37	1.267	1.311	1.339	1.267	1.343	1.292	1.269	1.297	1.29										1.309696	2.91	0.029	1
1,1-DICHLOROETHANE	1.041	1.021	1.095	1	1.017	1.004	1.008	0.973	0.966	0.955	0.94										1.001663	4.34	0.043	1
VINYL ACETATE	1.194	1.169	1.074	1.119	1.105	1.164	1.222	1.1	1.113	1.069	1.023										1.122988	5.25	0.052	1
DI-ISOPROPYL ETHER	1.877	1.889	1.965	1.912	1.915	1.904	1.936	1.888	1.835	1.848	1.848										1.892424	2.09	0.021	1
2,2-Dichloropropane	0.802	0.621	0.656	0.634	0.606	0.589	0.629	0.579	0.552	0.561	0.5										0.611741	12.56	0.126	1
CIS-1,2-DICHLOROETHENE	0.608	0.585	0.585	0.572	0.57	0.571	0.574	0.543	0.536	0.544	0.533										0.565601	4.2	0.042	1
2-BUTANONE (MEK)	0.354	0.367	0.321	0.35	0.343	0.343	0.364	0.341	0.349	0.38	0.366										0.352695	4.55	0.045	1
BROMOCHLOROMETHANE	0.356	0.369	0.337	0.352	0.335	0.327	0.343	0.332	0.327	0.333	0.323										0.339313	4.12	0.041	1
TETRAHYDROFURAN	0.216	0.183	0.163	0.19	0.175	0.17	0.176	0.171	0.164	0.192	0.181										0.180011	8.41	0.084	1
CHLOROFORM	0.963	0.983	1.005	1.002	0.959	0.936	0.969	0.929	0.902	0.913	0.895										0.950498	4.02	0.04	1
DIBROMOFLUOROMETHANE	0.623	0.615	0.623	0.621	0.606	0.592	0.605	0.591	0.585	0.585	0.583										0.602579	2.66	0.027	1
1,1,1-TRICHLOROETHANE	0.728	0.739	0.756	0.737	0.716	0.729	0.721	0.723	0.706	0.725	0.698										0.725092	2.19	0.022	1
CARBON TETRACHLORIDE	0.78	0.762	0.83	0.785	0.76	0.767	0.777	0.758	0.747	0.781	0.765										0.773771	2.86	0.029	1
1,1-Dichloropropene	0.702	0.743	0.698	0.737	0.701	0.695	0.704	0.684	0.682	0.672	0.662										0.698326	3.51	0.035	1
2,2,4-TRIMETHYLPENTANE	2.405	2.306	2.305	2.224	2.104	2.173	2.164	2.079	1.956	1.989	1.798										2.136814	8.28	0.083	1
HEPTANE	0.855	0.888	1.167	1.077	1.001	1.035	1.039	1.007	0.989	0.953	0.965										0.997805	8.6	0.086	1
BENZENE	2.479	2.378	2.327	2.214	2.158	2.12	2.076	2.03	1.994	2.027	1.967										2.161054	7.85	0.078	1
1,2-DICHLOROETHANE	0.741	0.668	0.702	0.721	0.707	0.673	0.677	0.676	0.649	0.661	0.638										0.682999	4.58	0.046	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.305	0.324	0.312	0.312	0.312	0.31	0.303	0.298	0.293	0.301	0.299										0.306217	2.83	0.028	1
1,2-DICHLOROPROPANE	0.286	0.245	0.244	0.256	0.253	0.26	0.254	0.252	0.249	0.248	0.244										0.253658	4.7	0.047	1
DIBROMOMETHANE	0.219	0.215	0.193	0.224	0.207	0.213	0.208	0.205	0.2	0.21	0.204										0.208749	4.12	0.041	1

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INITIAL CALIBRATION SUMMARY

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Review Method : 624
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INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.416	0.41	0.425	0.449	0.43	0.442	0.427	0.428	0.43	0.43	0.425										0.428335	2.49	0.025	1
a,a,a-Trifluorotoluene	0.526	0.536	0.521	0.534	0.518	0.539	0.514	0.503	0.508	0.496	0.48										0.515838	3.53	0.035	1
-CHLOROETHYL VINYL ETHER	0.154	0.169	0.164	0.178	0.169	0.179	0.179	0.174	0.174	0.181	0.176										0.172411	4.61	0.046	1
CIS-1,3-DICHLOROPROPENE	0.487	0.526	0.534	0.524	0.515	0.544	0.526	0.533	0.523	0.529	0.533										0.52478	2.81	0.028	1
4-METHYL-2-PENTANONE (MIBK)	0.309	0.321	0.304	0.344	0.348	0.366	0.378	0.363	0.361	0.382	0.376										0.35017	7.91	0.079	1
TOLUENE-D8	1.205	1.217	1.201	1.209	1.149	1.182	1.162	1.145	1.144	1.128	1.12										1.169282	2.99	0.03	1
TOLUENE	1.576	1.406	1.395	1.335	1.247	1.273	1.24	1.229	1.2	1.244	1.256										1.309243	8.51	0.085	1
TRANS-1,3-DICHLOROPROPENE	0.435	0.437	0.439	0.443	0.451	0.48	0.49	0.483	0.477	0.49	0.485										0.464438	4.99	0.05	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.525	1.563	1.553	1.559	1.61	1.548	1.551	1.574	1.567	1.647	1.609										1.573326	2.23	0.022	1
TETRACHLOROETHENE	1.299	1.312	1.412	1.399	1.323	1.285	1.315	1.322	1.314	1.403	1.389										1.343089	3.51	0.035	1
1,3-Dichloropropane	3.058	3.036	2.78	2.725	2.871	2.689	2.663	2.667	2.722	2.789	2.672										2.788388	5.11	0.051	1
2-HEXANONE	0.727	0.689	0.704	0.73	0.832	0.791	0.875	0.889	0.917	0.984	0.957										0.826602	12.72	0.127	1
CHLORODIBROMOMETHANE	1.479	1.762	1.702	1.808	1.877	1.788	1.841	1.896	1.892	2.021	1.938										1.818577	7.86	0.079	1
1,2-DIBROMOETHANE	1.78	1.809	1.637	1.767	1.76	1.663	1.682	1.668	1.682	1.771	1.705										1.720374	3.38	0.034	1
CHLOROBENZENE	4.78	4.706	4.7	4.649	4.767	4.56	4.585	4.72	4.638	4.915	4.825										4.713279	2.23	0.022	1
1,1,1,2-TETRACHLOROETHANE	1.424	1.459	1.543	1.682	1.702	1.586	1.598	1.628	1.642	1.713	1.698										1.606815	6.1	0.061	1
ETHYLBENZENE	2.166	2.455	2.398	2.452	2.41	2.339	2.413	2.469	2.416	2.53	2.543										2.417292	4.21	0.042	1
M&P-XYLENE	3.29	2.975	3.101	3.049	3.094	2.95	3.021	3.034	3.022	3.175	3.18										3.080978	3.27	0.033	1
O-XYLENE	3.039	2.741	2.951	2.96	3.005	2.83	2.895	2.946	2.925	3.109	3.002										2.945795	3.4	0.034	1
STYRENE	4.741	4.908	4.554	4.666	4.892	4.697	4.936	5.005	4.887	5.271	5.056										4.873973	4.15	0.041	1
Bromoform	1.09	1.057	1.081	1.072	1.174	1.112	1.177	1.211	1.227	1.3	1.258										1.159967	7.14	0.071	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 624
Review Protocol : EPA
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:20:09 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	7.321	7.656	7.482	7.502	7.515	7.438	7.581	7.57	7.391	8.044	7.821										7.5747	2.71	0.027	1
4-BROMOFLUOROBENZENE	2.492	2.553	2.544	2.578	2.553	2.47	2.435	2.514	2.528	2.533	2.433										2.512006	1.94	0.019	1
Bromobenzene	3.706	3.914	3.714	3.556	3.711	3.388	3.505	3.638	3.422	3.658	3.574										3.616714	4.15	0.041	1
1,1,2,2-TETRACHLOROETHANE	2.326	2.48	2.529	2.349	2.347	2.227	2.306	2.284	2.312	2.472	2.335										2.360564	3.93	0.039	1
1,2,3-TRICHLOROPROPANE		0.468	0.48	0.449	0.535	0.519	0.522	0.53	0.537	0.587	0.552										0.51802	7.96	0.08	1
TRANS-1,4-DICHLORO-2-BUTENE		0.74	0.506	0.536	0.558	0.562	0.587	0.601	0.58	0.643	0.623										0.593522	10.99	0.11	1
n-Propylbenzene	9.57	9.823	9.657	9.296	9.439	8.878	9.279	9.558	9.144	9.835	9.665										9.467634	3.12	0.031	1
4-ETHYLTOLUENE	7.948	8.005	7.675	7.556	7.78	7.44	7.539	7.8	7.473	8.094	7.93										7.749036	2.94	0.029	1
2-Chlorotoluene	1.66	1.996	1.912	1.823	1.922	1.775	1.767	1.832	1.804	1.913	1.869										1.842946	5.03	0.05	1
4-Chlorotoluene	5.599	5.965	5.611	5.523	5.53	5.409	5.427	5.409	5.47	5.69	5.676										5.573658	2.95	0.029	1
1,3,5-Trimethylbenzene	6.268	6.044	6.245	6.038	6.165	5.922	5.988	6.2	6.107	6.727	6.545										6.204331	3.9	0.039	1
tert-Butylbenzene	4.889	4.693	5.08	5.017	5.053	4.752	4.783	5.084	4.976	5.359	5.28										4.996985	4.2	0.042	1
1,2,4-Trimethylbenzene	6.976	6.311	6.175	6.319	6.156	5.878	6.041	6.18	6.023	6.549	6.364										6.270433	4.75	0.047	1
sec-Butylbenzene	8.224	7.781	7.871	8.247	8.195	7.946	8.03	8.135	7.882	8.738	8.571										8.147266	3.65	0.036	1
1,3-DICHLOROBENZENE	3.534	3.593	3.653	3.592	3.558	3.482	3.437	3.441	3.306	3.646	3.538										3.525402	2.92	0.029	1
p-Isopropyltoluene	6.294	6.676	6.556	6.267	6.489	6.345	6.582	6.391	6.319	6.937	7.097										6.541199	4.15	0.041	1
DICYCLOPENTADIENE	8.579	9.04	8.666	8.499	8.831	8.36	8.667	8.498	8.35	8.922	8.708										8.646979	2.55	0.026	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.703	1.565	1.523	1.406	1.386	1.371	1.356	1.331	1.323	1.359	1.394										1.428773	8.29	0.083	1
1,2,3-TRIMETHYLBENZENE	2.63	2.603	2.446	2.464	2.459	2.418	2.45	2.382	2.378	2.493	2.587										2.482864	3.51	0.035	1
1,2-DICHLOROBENZENE	1.343	1.402	1.327	1.267	1.272	1.269	1.253	1.261	1.248	1.276	1.279										1.290547	3.66	0.037	1
n-Butylbenzene	2.443	2.531	2.49	2.455	2.427	2.468	2.454	2.407	2.435	2.508	2.546										2.469417	1.79	0.018	1

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Review Method : 624
Review Protocol : EPA
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:20:09 PM

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Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane			0.127	0.144	0.13	0.135	0.15	0.141	0.156	0.166	0.164										0.145891	9.75	0.097	1
1,2,4-Trichlorobenzene	0.84	0.848	0.806	0.758	0.795	0.763	0.768	0.728	0.761	0.852	0.938										0.805236	7.49	0.075	1
HEXACHLORO-1,3-BUTADIENE	0.456	0.458	0.441	0.428	0.436	0.403	0.407	0.393	0.406	0.453	0.497										0.43442	7.13	0.071	1
Naphthalene	2.313	2.153	1.915	1.944	1.806	1.841	1.987	1.955	2.038	2.235	2.312										2.045296	8.86	0.089	1
1,2,3-Trichlorobenzene	0.851	0.796	0.744	0.713	0.718	0.714	0.715	0.678	0.706	0.807	0.827										0.751692	7.69	0.077	1
1-Methylnaphthalene	1.262	1.049	0.917	0.912	0.897	0.951	0.969	0.929	0.975	1.157	1.118										1.012387	11.78	0.118	1
2-Methylnaphthalene	1.042	0.891	0.798	0.772	0.775	0.763	0.792	0.771	0.778	0.934	0.912										0.838919	10.97	0.11	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.004	0.005	0.004	0.005	0.005	0.004	0.004	0.004	0.005	0.004381	8.32	0.083	1
Bromoethane												0.412	0.426	0.42	0.412	0.391	0.385	0.395	0.383	0.395	0.402219	3.89	0.039	1
2-PROPANOL																					0	0	0	1
Methyl Acetate												0.386	0.423	0.424	0.416	0.383	0.379	0.392	0.4	0.39	0.399253	4.4	0.044	1
ACETONITRILE												0.057	0.059	0.071	0.069	0.066	0.063	0.066	0.067	0.066	0.064874	7.13	0.071	1
ALLYL CHLORIDE												0.228	0.242	0.239	0.242	0.229	0.222	0.237	0.231	0.228	0.233088	3.08	0.031	1
tert-BUTYL ALCOHOL												0.082	0.085	0.092	0.098	0.094	0.088	0.094	0.098	0.095	0.091829	6.14	0.061	1
chloroprene												0.731	0.757	0.761	0.743	0.724	0.705	0.704	0.713	0.704	0.727051	3.08	0.031	1
ETHYL TERT-BUTYL ETHER												1.456	1.555	1.541	1.54	1.511	1.436	1.468	1.407	1.426	1.482265	3.75	0.037	1
PROPIONITRILE												0.071	0.076	0.078	0.075	0.072	0.071	0.072	0.073	0.071	0.073275	3.57	0.036	1
Ethyl Acetate												0.51	0.557	0.56	0.55	0.532	0.526	0.538	0.544	0.52	0.537213	3.14	0.031	1
METHACRYLONITRILE												0.204	0.223	0.215	0.211	0.204	0.202	0.204	0.203	0.2	0.207296	3.58	0.036	1
Cyclohexane												1.224	1.282	1.259	1.244	1.178	1.173	1.185	1.141	1.146	1.203495	4.2	0.042	1
tert-butyl formate												0.309	0.327	0.338	0.332	0.335	0.327	0.33	0.323	0.326	0.327638	2.58	0.026	1

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 624
Review Protocol : EPA
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:20:09 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.029	0.034	0.033	0.034	0.034	0.032	0.035	0.035	0.034	0.033421	5.69	0.057	1
2-Amyl Alcohol												0.044	0.037	0.043	0.044	0.044	0.041	0.043	0.046	0.047	0.043316	7.36	0.074	1
TERT-AMYL METHYL ETHER												1.597	1.736	1.629	1.601	1.608	1.592	1.622	1.543	1.55	1.608648	3.47	0.035	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.008	0.009	0.009	0.01	0.009	0.009	0.01	0.01	0.01	0.009315	8.4	0.084	1
Methyl Cyclohexane												1.051	0.828	0.738	0.703	0.692	0.679	0.668	0.654	0.67	0.742567	17.1	1	0
2-nitropropane												0.085	0.09	0.09	0.094	0.09	0.089	0.089	0.093	0.092	0.090139	3	0.03	1
METHYL METHACRYLATE												0.282	0.315	0.326	0.322	0.312	0.311	0.31	0.313	0.321	0.312635	4.07	0.041	1
1,4-DIOXANE												0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002995	9.95	0.1	1
n-octane												0.225	0.24	0.241	0.25	0.239	0.235	0.246	0.242	0.24	0.239894	2.92	0.029	1
3,3-DIMETHYL-1-BUTANOL												0.038	0.039	0.04	0.043	0.041	0.039	0.043	0.044	0.045	0.041344	6.46	0.065	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.633	2.122	2.116	2.115	2.075	2.024	2.202	2.16	2.087	2.059357	8.13	0.081	1
CIS-1,4-DICHLORO-2-BUTENE												0.542	0.6	0.616	0.605	0.604	0.604	0.641	0.638	0.603	0.605857	4.69	0.047	1
Cyclohexanone												0.451	0.529	0.521	0.486	0.493	0.473	0.503	0.517	0.503	0.497525	4.97	0.05	1
PENTACHLOROETHANE												1.103	1.207	1.172	1.158	1.175	1.189	1.285	1.195	1.206	1.187876	4.07	0.041	1
Hexachloroethane												1.189	1.459	1.403	1.466	1.41	1.437	1.557	1.455	1.48	1.42858	7.02	0.07	1
AP9-1,4-DICHLOROBENZENE-D4																								

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 8260SC
Review Protocol : SC
Released By : John A. Heath Jr.
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INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.16	0.103	0.082	0.076	0.079	0.068	0.073	0.069										0.088783	34.79	0.999	0
DICHLORODIFLUOROMETHANE	0.569	0.514	0.527	0.533	0.526	0.516	0.513	0.504	0.509	0.514	0.501										0.520576	3.61	0.036	1
CHLOROMETHANE		0.987	0.868	0.809	0.74	0.709	0.713	0.697	0.664	0.692	0.683										0.75628	13.51	0.135	1
VINYL CHLORIDE	0.638	0.561	0.566	0.594	0.584	0.589	0.587	0.593	0.589	0.623	0.629										0.595768	4.12	0.041	1
1,3-BUTADIENE	0.429	0.313	0.306	0.416	0.376	0.398	0.419	0.409	0.4	0.419	0.426										0.391926	11.11	0.111	1
BROMOMETHANE	0.41	0.483	0.57	0.426	0.46	0.43	0.419	0.401	0.4	0.423	0.41										0.43924	11.39	0.114	1
CHLOROETHANE	0.328	0.35	0.322	0.352	0.306	0.305	0.3	0.296	0.298	0.254	0.229										0.303617	12.1	0.121	1
TRICHLOROFLUOROMETHANE	0.732	0.743	0.775	0.76	0.717	0.73	0.729	0.717	0.71	0.742	0.73										0.735035	2.6	0.026	1
DICHLOROFLUOROMETHANE	0.962	1.035	0.986	0.941	0.924	0.892	0.913	0.903	0.863	0.899	0.868										0.926049	5.6	0.056	1
ETHYL ETHER	0.389	0.312	0.37	0.363	0.346	0.342	0.352	0.331	0.324	0.345	0.334										0.346166	6.3	0.063	1
ACROLEIN		0.057	0.064	0.057	0.054	0.061	0.058	0.056	0.056	0.062	0.069										0.059401	7.8	0.078	1
1,1-DICHLOROETHENE	0.738	0.789	0.69	0.714	0.695	0.681	0.695	0.664	0.656	0.669	0.664										0.695883	5.64	0.056	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.442	0.443	0.403	0.432	0.441	0.409	0.435	0.411	0.402	0.409	0.407										0.421258	4	0.04	1
ACETONE		0.301	0.252	0.234	0.232	0.207	0.226	0.215	0.216	0.284	0.279										0.244643	13.41	0.134	1
IODOMETHANE		1.261	1.022	0.95	0.893	0.867	0.864	0.854	0.865	0.847	0.86										0.928202	13.89	0.139	1
CARBON DISULFIDE		2.166	1.834	1.703	1.566	1.526	1.576	1.508	1.48	1.539	1.527										1.642524	12.95	0.13	1
METHYLENE CHLORIDE		0.709	0.63	0.579	0.559	0.53	0.54	0.526	0.528	0.527	0.513										0.564212	10.88	0.109	1
ACRYLONITRILE	0.202	0.177	0.181	0.185	0.187	0.184	0.196	0.189	0.187	0.196	0.189										0.188317	3.9	0.039	1
n-Hexane	0.58	0.504	0.461	0.484	0.488	0.475	0.482	0.453	0.448	0.451	0.438										0.478663	8.21	0.082	1
TRANS-1,2-DICHLOROETHENE	0.524	0.538	0.535	0.529	0.529	0.51	0.506	0.501	0.492	0.492	0.48										0.512327	3.86	0.039	1

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METHYL TERT-BUTYL ETHER	1.362	1.37	1.267	1.311	1.339	1.267	1.343	1.292	1.269	1.297	1.29										1.309696	2.91	0.029	1
1,1-DICHLOROETHANE	1.041	1.021	1.095	1	1.017	1.004	1.008	0.973	0.966	0.955	0.94										1.001663	4.34	0.043	1
VINYL ACETATE	1.194	1.169	1.074	1.119	1.105	1.164	1.222	1.1	1.113	1.069	1.023										1.122988	5.25	0.052	1
DI-ISOPROPYL ETHER	1.877	1.889	1.965	1.912	1.915	1.904	1.936	1.888	1.835	1.848	1.848										1.892424	2.09	0.021	1
2,2-Dichloropropane	0.802	0.621	0.656	0.634	0.606	0.589	0.629	0.579	0.552	0.561	0.5										0.611741	12.56	0.126	1
CIS-1,2-DICHLOROETHENE	0.608	0.585	0.585	0.572	0.57	0.571	0.574	0.543	0.536	0.544	0.533										0.565601	4.2	0.042	1
2-BUTANONE (MEK)	0.354	0.367	0.321	0.35	0.343	0.343	0.364	0.341	0.349	0.38	0.366										0.352695	4.55	0.045	1
BROMOCHLOROMETHANE	0.356	0.369	0.337	0.352	0.335	0.327	0.343	0.332	0.327	0.333	0.323										0.339313	4.12	0.041	1
TETRAHYDROFURAN	0.216	0.183	0.163	0.19	0.175	0.17	0.176	0.171	0.164	0.192	0.181										0.180011	8.41	0.084	1
CHLOROFORM	0.963	0.983	1.005	1.002	0.959	0.936	0.969	0.929	0.902	0.913	0.895										0.950498	4.02	0.04	1
DIBROMOFLUOROMETHANE	0.623	0.615	0.623	0.621	0.606	0.592	0.605	0.591	0.585	0.585	0.583										0.602579	2.66	0.027	1
1,1,1-TRICHLOROETHANE	0.728	0.739	0.756	0.737	0.716	0.729	0.721	0.723	0.706	0.725	0.698										0.725092	2.19	0.022	1
CARBON TETRACHLORIDE	0.78	0.762	0.83	0.785	0.76	0.767	0.777	0.758	0.747	0.781	0.765										0.773771	2.86	0.029	1
1,1-Dichloropropene	0.702	0.743	0.698	0.737	0.701	0.695	0.704	0.684	0.682	0.672	0.662										0.698326	3.51	0.035	1
2,2,4-TRIMETHYLPENTANE	2.405	2.306	2.305	2.224	2.104	2.173	2.164	2.079	1.956	1.989	1.798										2.136814	8.28	0.083	1
HEPTANE	0.855	0.888	1.167	1.077	1.001	1.035	1.039	1.007	0.989	0.953	0.965										0.997805	8.6	0.086	1
BENZENE	2.479	2.378	2.327	2.214	2.158	2.12	2.076	2.03	1.994	2.027	1.967										2.161054	7.85	0.078	1
1,2-DICHLOROETHANE	0.741	0.668	0.702	0.721	0.707	0.673	0.677	0.676	0.649	0.661	0.638										0.682999	4.58	0.046	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.305	0.324	0.312	0.312	0.312	0.31	0.303	0.298	0.293	0.301	0.299										0.306217	2.83	0.028	1
1,2-DICHLOROPROPANE	0.286	0.245	0.244	0.256	0.253	0.26	0.254	0.252	0.249	0.248	0.244										0.253658	4.7	0.047	1
DIBROMOMETHANE	0.219	0.215	0.193	0.224	0.207	0.213	0.208	0.205	0.2	0.21	0.204										0.208749	4.12	0.041	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 8260SC
Review Protocol : SC
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:20:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.416	0.41	0.425	0.449	0.43	0.442	0.427	0.428	0.43	0.43	0.425										0.428335	2.49	0.025	1
a,a,a-Trifluorotoluene	0.526	0.536	0.521	0.534	0.518	0.539	0.514	0.503	0.508	0.496	0.48										0.515838	3.53	0.035	1
-CHLOROETHYL VINYL ETHER	0.154	0.169	0.164	0.178	0.169	0.179	0.179	0.174	0.174	0.181	0.176										0.172411	4.61	0.046	1
CIS-1,3-DICHLOROPROPENE	0.487	0.526	0.534	0.524	0.515	0.544	0.526	0.533	0.523	0.529	0.533										0.52478	2.81	0.028	1
4-METHYL-2-PENTANONE (MIBK)	0.309	0.321	0.304	0.344	0.348	0.366	0.378	0.363	0.361	0.382	0.376										0.35017	7.91	0.079	1
TOLUENE-D8	1.205	1.217	1.201	1.209	1.149	1.182	1.162	1.145	1.144	1.128	1.12										1.169282	2.99	0.03	1
TOLUENE	1.576	1.406	1.395	1.335	1.247	1.273	1.24	1.229	1.2	1.244	1.256										1.309243	8.51	0.085	1
TRANS-1,3-DICHLOROPROPENE	0.435	0.437	0.439	0.443	0.451	0.48	0.49	0.483	0.477	0.49	0.485										0.464438	4.99	0.05	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.525	1.563	1.553	1.559	1.61	1.548	1.551	1.574	1.567	1.647	1.609										1.573326	2.23	0.022	1
TETRACHLOROETHENE	1.299	1.312	1.412	1.399	1.323	1.285	1.315	1.322	1.314	1.403	1.389										1.343089	3.51	0.035	1
1,3-Dichloropropane	3.058	3.036	2.78	2.725	2.871	2.689	2.663	2.667	2.722	2.789	2.672										2.788388	5.11	0.051	1
2-HEXANONE	0.727	0.689	0.704	0.73	0.832	0.791	0.875	0.889	0.917	0.984	0.957										0.826602	12.72	0.127	1
CHLORODIBROMOMETHANE	1.479	1.762	1.702	1.808	1.877	1.788	1.841	1.896	1.892	2.021	1.938										1.818577	7.86	0.079	1
1,2-DIBROMOETHANE	1.78	1.809	1.637	1.767	1.76	1.663	1.682	1.668	1.682	1.771	1.705										1.720374	3.38	0.034	1
CHLOROBENZENE	4.78	4.706	4.7	4.649	4.767	4.56	4.585	4.72	4.638	4.915	4.825										4.713279	2.23	0.022	1
1,1,1,2-TETRACHLOROETHANE	1.424	1.459	1.543	1.682	1.702	1.586	1.598	1.628	1.642	1.713	1.698										1.606815	6.1	0.061	1
ETHYLBENZENE	2.166	2.455	2.398	2.452	2.41	2.339	2.413	2.469	2.416	2.53	2.543										2.417292	4.21	0.042	1
M&P-XYLENE	3.29	2.975	3.101	3.049	3.094	2.95	3.021	3.034	3.022	3.175	3.18										3.080978	3.27	0.033	1
O-XYLENE	3.039	2.741	2.951	2.96	3.005	2.83	2.895	2.946	2.925	3.109	3.002										2.945795	3.4	0.034	1
STYRENE	4.741	4.908	4.554	4.666	4.892	4.697	4.936	5.005	4.887	5.271	5.056										4.873973	4.15	0.041	1
Bromoform	1.09	1.057	1.081	1.072	1.174	1.112	1.177	1.211	1.227	1.3	1.258										1.159967	7.14	0.071	1

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 8260SC
Review Protocol : SC
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:20:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	7.321	7.656	7.482	7.502	7.515	7.438	7.581	7.57	7.391	8.044	7.821										7.5747	2.71	0.027	1
4-BROMOFLUOROBENZENE	2.492	2.553	2.544	2.578	2.553	2.47	2.435	2.514	2.528	2.533	2.433										2.512006	1.94	0.019	1
Bromobenzene	3.706	3.914	3.714	3.556	3.711	3.388	3.505	3.638	3.422	3.658	3.574										3.616714	4.15	0.041	1
1,1,1,2,2-TETRACHLOROETHANE	2.326	2.48	2.529	2.349	2.347	2.227	2.306	2.284	2.312	2.472	2.335										2.360564	3.93	0.039	1
1,2,3-TRICHLOROPROPANE		0.468	0.48	0.449	0.535	0.519	0.522	0.53	0.537	0.587	0.552										0.51802	7.96	0.08	1
TRANS-1,4-DICHLORO-2-BUTENE		0.74	0.506	0.536	0.558	0.562	0.587	0.601	0.58	0.643	0.623										0.593522	10.99	0.11	1
n-Propylbenzene	9.57	9.823	9.657	9.296	9.439	8.878	9.279	9.558	9.144	9.835	9.665										9.467634	3.12	0.031	1
4-ETHYLTOLUENE	7.948	8.005	7.675	7.556	7.78	7.44	7.539	7.8	7.473	8.094	7.93										7.749036	2.94	0.029	1
2-Chlorotoluene	1.66	1.996	1.912	1.823	1.922	1.775	1.767	1.832	1.804	1.913	1.869										1.842946	5.03	0.05	1
4-Chlorotoluene	5.599	5.965	5.611	5.523	5.53	5.409	5.427	5.409	5.47	5.69	5.676										5.573658	2.95	0.029	1
1,3,5-Trimethylbenzene	6.268	6.044	6.245	6.038	6.165	5.922	5.988	6.2	6.107	6.727	6.545										6.204331	3.9	0.039	1
tert-Butylbenzene	4.889	4.693	5.08	5.017	5.053	4.752	4.783	5.084	4.976	5.359	5.28										4.996985	4.2	0.042	1
1,2,4-Trimethylbenzene	6.976	6.311	6.175	6.319	6.156	5.878	6.041	6.18	6.023	6.549	6.364										6.270433	4.75	0.047	1
sec-Butylbenzene	8.224	7.781	7.871	8.247	8.195	7.946	8.03	8.135	7.882	8.738	8.571										8.147266	3.65	0.036	1
1,3-DICHLOROBENZENE	3.534	3.593	3.653	3.592	3.558	3.482	3.437	3.441	3.306	3.646	3.538										3.525402	2.92	0.029	1
p-Isopropyltoluene	6.294	6.676	6.556	6.267	6.489	6.345	6.582	6.391	6.319	6.937	7.097										6.541199	4.15	0.041	1
DICYCLOPENTADIENE	8.579	9.04	8.666	8.499	8.831	8.36	8.667	8.498	8.35	8.922	8.708										8.646979	2.55	0.026	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.703	1.565	1.523	1.406	1.386	1.371	1.356	1.331	1.323	1.359	1.394										1.428773	8.29	0.083	1
1,2,3-TRIMETHYLBENZENE	2.63	2.603	2.446	2.464	2.459	2.418	2.45	2.382	2.378	2.493	2.587										2.482864	3.51	0.035	1
1,2-DICHLOROBENZENE	1.343	1.402	1.327	1.267	1.272	1.269	1.253	1.261	1.248	1.276	1.279										1.290547	3.66	0.037	1
n-Butylbenzene	2.443	2.531	2.49	2.455	2.427	2.468	2.454	2.407	2.435	2.508	2.546										2.469417	1.79	0.018	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 8260SC
Review Protocol : SC
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:20:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane			0.127	0.144	0.13	0.135	0.15	0.141	0.156	0.166	0.164										0.145891	9.75	0.097	1
1,2,4-Trichlorobenzene	0.84	0.848	0.806	0.758	0.795	0.763	0.768	0.728	0.761	0.852	0.938										0.805236	7.49	0.075	1
HEXACHLORO-1,3-BUTADIENE	0.456	0.458	0.441	0.428	0.436	0.403	0.407	0.393	0.406	0.453	0.497										0.43442	7.13	0.071	1
Naphthalene	2.313	2.153	1.915	1.944	1.806	1.841	1.987	1.955	2.038	2.235	2.312										2.045296	8.86	0.089	1
1,2,3-Trichlorobenzene	0.851	0.796	0.744	0.713	0.718	0.714	0.715	0.678	0.706	0.807	0.827										0.751692	7.69	0.077	1
1-Methylnaphthalene	1.262	1.049	0.917	0.912	0.897	0.951	0.969	0.929	0.975	1.157	1.118										1.012387	11.78	0.118	1
2-Methylnaphthalene	1.042	0.891	0.798	0.772	0.775	0.763	0.792	0.771	0.778	0.934	0.912										0.838919	10.97	0.11	1
4P9-PENTAFLUOROBENZENE																								
ETHANOL												0.004	0.005	0.004	0.005	0.005	0.004	0.004	0.004	0.005	0.004381	8.32	0.083	1
Bromoethane												0.412	0.426	0.42	0.412	0.391	0.385	0.395	0.383	0.395	0.402219	3.89	0.039	1
2-PROPANOL																					0	0	0	1
Methyl Acetate												0.386	0.423	0.424	0.416	0.383	0.379	0.392	0.4	0.39	0.399253	4.4	0.044	1
ACETONITRILE												0.057	0.059	0.071	0.069	0.066	0.063	0.066	0.067	0.066	0.064874	7.13	0.071	1
ALLYL CHLORIDE												0.228	0.242	0.239	0.242	0.229	0.222	0.237	0.231	0.228	0.233088	3.08	0.031	1
tert-BUTYL ALCOHOL												0.082	0.085	0.092	0.098	0.094	0.088	0.094	0.098	0.095	0.091829	6.14	0.061	1
chloroprene												0.731	0.757	0.761	0.743	0.724	0.705	0.704	0.713	0.704	0.727051	3.08	0.031	1
ETHYL TERT-BUTYL ETHER												1.456	1.555	1.541	1.54	1.511	1.436	1.468	1.407	1.426	1.482265	3.75	0.037	1
PROPIONITRILE												0.071	0.076	0.078	0.075	0.072	0.071	0.072	0.073	0.071	0.073275	3.57	0.036	1
Ethyl Acetate												0.51	0.557	0.56	0.55	0.532	0.526	0.538	0.544	0.52	0.537213	3.14	0.031	1
METHACRYLONITRILE												0.204	0.223	0.215	0.211	0.204	0.202	0.204	0.203	0.2	0.207296	3.58	0.036	1
Cyclohexane												1.224	1.282	1.259	1.244	1.178	1.173	1.185	1.141	1.146	1.203495	4.2	0.042	1
tert-butyl formate												0.309	0.327	0.338	0.332	0.335	0.327	0.33	0.323	0.326	0.327638	2.58	0.026	1

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 8260SC
Review Protocol : SC
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:20:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.029	0.034	0.033	0.034	0.034	0.032	0.035	0.035	0.034	0.033421	5.69	0.057	1
2-Amyl Alcohol												0.044	0.037	0.043	0.044	0.044	0.041	0.043	0.046	0.047	0.043316	7.36	0.074	1
TERT-AMYL METHYL ETHER												1.597	1.736	1.629	1.601	1.608	1.592	1.622	1.543	1.55	1.608648	3.47	0.035	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.008	0.009	0.009	0.01	0.009	0.009	0.01	0.01	0.01	0.009315	8.4	0.084	1
Methyl Cyclohexane												1.051	0.828	0.738	0.703	0.692	0.679	0.668	0.654	0.67	0.742567	17.1	1	0
2-nitropropane												0.085	0.09	0.09	0.094	0.09	0.089	0.089	0.093	0.092	0.090139	3	0.03	1
METHYL METHACRYLATE												0.282	0.315	0.326	0.322	0.312	0.311	0.31	0.313	0.321	0.312635	4.07	0.041	1
1,4-DIOXANE												0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002995	9.95	0.1	1
n-octane												0.225	0.24	0.241	0.25	0.239	0.235	0.246	0.242	0.24	0.239894	2.92	0.029	1
3,3-DIMETHYL-1-BUTANOL												0.038	0.039	0.04	0.043	0.041	0.039	0.043	0.044	0.045	0.041344	6.46	0.065	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.633	2.122	2.116	2.115	2.075	2.024	2.202	2.16	2.087	2.059357	8.13	0.081	1
CIS-1,4-DICHLORO-2-BUTENE												0.542	0.6	0.616	0.605	0.604	0.604	0.641	0.638	0.603	0.605857	4.69	0.047	1
Cyclohexanone												0.451	0.529	0.521	0.486	0.493	0.473	0.503	0.517	0.503	0.497525	4.97	0.05	1
PENTACHLOROETHANE												1.103	1.207	1.172	1.158	1.175	1.189	1.285	1.195	1.206	1.187876	4.07	0.041	1
Hexachloroethane												1.189	1.459	1.403	1.466	1.41	1.437	1.557	1.455	1.48	1.42858	7.02	0.07	1
AP9-1,4-DICHLOROBENZENE-D4																								

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 6200
Review Protocol : SM 20th
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:21:03 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
4260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE				0.16	0.103	0.082	0.076	0.079	0.068	0.073	0.069										0.088783	34.79	0.999	0
DICHLORODIFLUOROMETHANE	0.569	0.514	0.527	0.533	0.526	0.516	0.513	0.504	0.509	0.514	0.501										0.520576	3.61	0.036	1
CHLOROMETHANE		0.987	0.868	0.809	0.74	0.709	0.713	0.697	0.664	0.692	0.683										0.75628	13.51	0.135	1
VINYL CHLORIDE	0.638	0.561	0.566	0.594	0.584	0.589	0.587	0.593	0.589	0.623	0.629										0.595768	4.12	0.041	1
1,3-BUTADIENE	0.429	0.313	0.306	0.416	0.376	0.398	0.419	0.409	0.4	0.419	0.426										0.391926	11.11	0.111	1
BROMOMETHANE	0.41	0.483	0.57	0.426	0.46	0.43	0.419	0.401	0.4	0.423	0.41										0.43924	11.39	0.114	1
CHLOROETHANE	0.328	0.35	0.322	0.352	0.306	0.305	0.3	0.296	0.298	0.254	0.229										0.303617	12.1	0.121	1
TRICHLOROFLUOROMETHANE	0.732	0.743	0.775	0.76	0.717	0.73	0.729	0.717	0.71	0.742	0.73										0.735035	2.6	0.026	1
DICHLOROFLUOROMETHANE	0.962	1.035	0.986	0.941	0.924	0.892	0.913	0.903	0.863	0.899	0.868										0.926049	5.6	0.056	1
ETHYL ETHER	0.389	0.312	0.37	0.363	0.346	0.342	0.352	0.331	0.324	0.345	0.334										0.346166	6.3	0.063	1
ACROLEIN		0.057	0.064	0.057	0.054	0.061	0.058	0.056	0.056	0.062	0.069										0.059401	7.8	0.078	1
1,1-DICHLOROETHENE	0.738	0.789	0.69	0.714	0.695	0.681	0.695	0.664	0.656	0.669	0.664										0.695883	5.64	0.056	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.442	0.443	0.403	0.432	0.441	0.409	0.435	0.411	0.402	0.409	0.407										0.421258	4	0.04	1
ACETONE		0.301	0.252	0.234	0.232	0.207	0.226	0.215	0.216	0.284	0.279										0.244643	13.41	0.134	1
IODOMETHANE		1.261	1.022	0.95	0.893	0.867	0.864	0.854	0.865	0.847	0.86										0.928202	13.89	0.139	1
CARBON DISULFIDE		2.166	1.834	1.703	1.566	1.526	1.576	1.508	1.48	1.539	1.527										1.642524	12.95	0.13	1
METHYLENE CHLORIDE		0.709	0.63	0.579	0.559	0.53	0.54	0.526	0.528	0.527	0.513										0.564212	10.88	0.109	1
ACRYLONITRILE	0.202	0.177	0.181	0.185	0.187	0.184	0.196	0.189	0.187	0.196	0.189										0.188317	3.9	0.039	1
n-Hexane	0.58	0.504	0.461	0.484	0.488	0.475	0.482	0.453	0.448	0.451	0.438										0.478663	8.21	0.082	1
TRANS-1,2-DICHLOROETHENE	0.524	0.538	0.535	0.529	0.529	0.51	0.506	0.501	0.492	0.492	0.48										0.512327	3.86	0.039	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 6200
Review Protocol : SM 20th
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:21:03 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	1.362	1.37	1.267	1.311	1.339	1.267	1.343	1.292	1.269	1.297	1.29										1.309696	2.91	0.029	1
1,1-DICHLOROETHANE	1.041	1.021	1.095	1	1.017	1.004	1.008	0.973	0.966	0.955	0.94										1.001663	4.34	0.043	1
VINYL ACETATE	1.194	1.169	1.074	1.119	1.105	1.164	1.222	1.1	1.113	1.069	1.023										1.122988	5.25	0.052	1
DI-ISOPROPYL ETHER	1.877	1.889	1.965	1.912	1.915	1.904	1.936	1.888	1.835	1.848	1.848										1.892424	2.09	0.021	1
2,2-Dichloropropane	0.802	0.621	0.656	0.634	0.606	0.589	0.629	0.579	0.552	0.561	0.5										0.611741	12.56	0.126	1
CIS-1,2-DICHLOROETHENE	0.608	0.585	0.585	0.572	0.57	0.571	0.574	0.543	0.536	0.544	0.533										0.565601	4.2	0.042	1
2-BUTANONE (MEK)	0.354	0.367	0.321	0.35	0.343	0.343	0.364	0.341	0.349	0.38	0.366										0.352695	4.55	0.045	1
BROMOCHLOROMETHANE	0.356	0.369	0.337	0.352	0.335	0.327	0.343	0.332	0.327	0.333	0.323										0.339313	4.12	0.041	1
TETRAHYDROFURAN	0.216	0.183	0.163	0.19	0.175	0.17	0.176	0.171	0.164	0.192	0.181										0.180011	8.41	0.084	1
CHLOROFORM	0.963	0.983	1.005	1.002	0.959	0.936	0.969	0.929	0.902	0.913	0.895										0.950498	4.02	0.04	1
DIBROMOFLUOROMETHANE	0.623	0.615	0.623	0.621	0.606	0.592	0.605	0.591	0.585	0.585	0.583										0.602579	2.66	0.027	1
1,1,1-TRICHLOROETHANE	0.728	0.739	0.756	0.737	0.716	0.729	0.721	0.723	0.706	0.725	0.698										0.725092	2.19	0.022	1
CARBON TETRACHLORIDE	0.78	0.762	0.83	0.785	0.76	0.767	0.777	0.758	0.747	0.781	0.765										0.773771	2.86	0.029	1
1,1-Dichloropropene	0.702	0.743	0.698	0.737	0.701	0.695	0.704	0.684	0.682	0.672	0.662										0.698326	3.51	0.035	1
2,2,4-TRIMETHYLPENTANE	2.405	2.306	2.305	2.224	2.104	2.173	2.164	2.079	1.956	1.989	1.798										2.136814	8.28	0.083	1
HEPTANE	0.855	0.888	1.167	1.077	1.001	1.035	1.039	1.007	0.989	0.953	0.965										0.997805	8.6	0.086	1
BENZENE	2.479	2.378	2.327	2.214	2.158	2.12	2.076	2.03	1.994	2.027	1.967										2.161054	7.85	0.078	1
1,2-DICHLOROETHANE	0.741	0.668	0.702	0.721	0.707	0.673	0.677	0.676	0.649	0.661	0.638										0.682999	4.58	0.046	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.305	0.324	0.312	0.312	0.312	0.31	0.303	0.298	0.293	0.301	0.299										0.306217	2.83	0.028	1
1,2-DICHLOROPROPANE	0.286	0.245	0.244	0.256	0.253	0.26	0.254	0.252	0.249	0.248	0.244										0.253658	4.7	0.047	1
DIBROMOMETHANE	0.219	0.215	0.193	0.224	0.207	0.213	0.208	0.205	0.2	0.21	0.204										0.208749	4.12	0.041	1

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 6200
Review Protocol : SM 20th
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:21:03 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.416	0.41	0.425	0.449	0.43	0.442	0.427	0.428	0.43	0.43	0.425										0.428335	2.49	0.025	1
a,a,a-Trifluorotoluene	0.526	0.536	0.521	0.534	0.518	0.539	0.514	0.503	0.508	0.496	0.48										0.515838	3.53	0.035	1
-CHLOROETHYL VINYL ETHER	0.154	0.169	0.164	0.178	0.169	0.179	0.179	0.174	0.174	0.181	0.176										0.172411	4.61	0.046	1
CIS-1,3-DICHLOROPROPENE	0.487	0.526	0.534	0.524	0.515	0.544	0.526	0.533	0.523	0.529	0.533										0.52478	2.81	0.028	1
4-METHYL-2-PENTANONE (MIBK)	0.309	0.321	0.304	0.344	0.348	0.366	0.378	0.363	0.361	0.382	0.376										0.35017	7.91	0.079	1
TOLUENE-D8	1.205	1.217	1.201	1.209	1.149	1.182	1.162	1.145	1.144	1.128	1.12										1.169282	2.99	0.03	1
TOLUENE	1.576	1.406	1.395	1.335	1.247	1.273	1.24	1.229	1.2	1.244	1.256										1.309243	8.51	0.085	1
TRANS-1,3-DICHLOROPROPENE	0.435	0.437	0.439	0.443	0.451	0.48	0.49	0.483	0.477	0.49	0.485										0.464438	4.99	0.05	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.525	1.563	1.553	1.559	1.61	1.548	1.551	1.574	1.567	1.647	1.609										1.573326	2.23	0.022	1
TETRACHLOROETHENE	1.299	1.312	1.412	1.399	1.323	1.285	1.315	1.322	1.314	1.403	1.389										1.343089	3.51	0.035	1
1,3-Dichloropropane	3.058	3.036	2.78	2.725	2.871	2.689	2.663	2.667	2.722	2.789	2.672										2.788388	5.11	0.051	1
2-HEXANONE	0.727	0.689	0.704	0.73	0.832	0.791	0.875	0.889	0.917	0.984	0.957										0.826602	12.72	0.127	1
CHLORODIBROMOMETHANE	1.479	1.762	1.702	1.808	1.877	1.788	1.841	1.896	1.892	2.021	1.938										1.818577	7.86	0.079	1
1,2-DIBROMOETHANE	1.78	1.809	1.637	1.767	1.76	1.663	1.682	1.668	1.682	1.771	1.705										1.720374	3.38	0.034	1
CHLOROBENZENE	4.78	4.706	4.7	4.649	4.767	4.56	4.585	4.72	4.638	4.915	4.825										4.713279	2.23	0.022	1
1,1,1,2-TETRACHLOROETHANE	1.424	1.459	1.543	1.682	1.702	1.586	1.598	1.628	1.642	1.713	1.698										1.606815	6.1	0.061	1
ETHYLBENZENE	2.166	2.455	2.398	2.452	2.41	2.339	2.413	2.469	2.416	2.53	2.543										2.417292	4.21	0.042	1
M&P-XYLENE	3.29	2.975	3.101	3.049	3.094	2.95	3.021	3.034	3.022	3.175	3.18										3.080978	3.27	0.033	1
O-XYLENE	3.039	2.741	2.951	2.96	3.005	2.83	2.895	2.946	2.925	3.109	3.002										2.945795	3.4	0.034	1
STYRENE	4.741	4.908	4.554	4.666	4.892	4.697	4.936	5.005	4.887	5.271	5.056										4.873973	4.15	0.041	1
Bromoform	1.09	1.057	1.081	1.072	1.174	1.112	1.177	1.211	1.227	1.3	1.258										1.159967	7.14	0.071	1

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
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Review Method : 6200
Review Protocol : SM 20th
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Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	7.321	7.656	7.482	7.502	7.515	7.438	7.581	7.57	7.391	8.044	7.821										7.5747	2.71	0.027	1
4-BROMOFLUOROBENZENE	2.492	2.553	2.544	2.578	2.553	2.47	2.435	2.514	2.528	2.533	2.433										2.512006	1.94	0.019	1
Bromobenzene	3.706	3.914	3.714	3.556	3.711	3.388	3.505	3.638	3.422	3.658	3.574										3.616714	4.15	0.041	1
1,1,2,2-TETRACHLOROETHANE	2.326	2.48	2.529	2.349	2.347	2.227	2.306	2.284	2.312	2.472	2.335										2.360564	3.93	0.039	1
1,2,3-TRICHLOROPROPANE		0.468	0.48	0.449	0.535	0.519	0.522	0.53	0.537	0.587	0.552										0.51802	7.96	0.08	1
TRANS-1,4-DICHLORO-2-BUTENE		0.74	0.506	0.536	0.558	0.562	0.587	0.601	0.58	0.643	0.623										0.593522	10.99	0.11	1
n-Propylbenzene	9.57	9.823	9.657	9.296	9.439	8.878	9.279	9.558	9.144	9.835	9.665										9.467634	3.12	0.031	1
4-ETHYLTOLUENE	7.948	8.005	7.675	7.556	7.78	7.44	7.539	7.8	7.473	8.094	7.93										7.749036	2.94	0.029	1
2-Chlorotoluene	1.66	1.996	1.912	1.823	1.922	1.775	1.767	1.832	1.804	1.913	1.869										1.842946	5.03	0.05	1
4-Chlorotoluene	5.599	5.965	5.611	5.523	5.53	5.409	5.427	5.409	5.47	5.69	5.676										5.573658	2.95	0.029	1
1,3,5-Trimethylbenzene	6.268	6.044	6.245	6.038	6.165	5.922	5.988	6.2	6.107	6.727	6.545										6.204331	3.9	0.039	1
tert-Butylbenzene	4.889	4.693	5.08	5.017	5.053	4.752	4.783	5.084	4.976	5.359	5.28										4.996985	4.2	0.042	1
1,2,4-Trimethylbenzene	6.976	6.311	6.175	6.319	6.156	5.878	6.041	6.18	6.023	6.549	6.364										6.270433	4.75	0.047	1
sec-Butylbenzene	8.224	7.781	7.871	8.247	8.195	7.946	8.03	8.135	7.882	8.738	8.571										8.147266	3.65	0.036	1
1,3-DICHLOROBENZENE	3.534	3.593	3.653	3.592	3.558	3.482	3.437	3.441	3.306	3.646	3.538										3.525402	2.92	0.029	1
p-Isopropyltoluene	6.294	6.676	6.556	6.267	6.489	6.345	6.582	6.391	6.319	6.937	7.097										6.541199	4.15	0.041	1
DICYCLOPENTADIENE	8.579	9.04	8.666	8.499	8.831	8.36	8.667	8.498	8.35	8.922	8.708										8.646979	2.55	0.026	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.703	1.565	1.523	1.406	1.386	1.371	1.356	1.331	1.323	1.359	1.394										1.428773	8.29	0.083	1
1,2,3-TRIMETHYLBENZENE	2.63	2.603	2.446	2.464	2.459	2.418	2.45	2.382	2.378	2.493	2.587										2.482864	3.51	0.035	1
1,2-DICHLOROBENZENE	1.343	1.402	1.327	1.267	1.272	1.269	1.253	1.261	1.248	1.276	1.279										1.290547	3.66	0.037	1
n-Butylbenzene	2.443	2.531	2.49	2.455	2.427	2.468	2.454	2.407	2.435	2.508	2.546										2.469417	1.79	0.018	1

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1,2-Dibromo-3-chloropropane			0.127	0.144	0.13	0.135	0.15	0.141	0.156	0.166	0.164										0.145891	9.75	0.097	1
1,2,4-Trichlorobenzene	0.84	0.848	0.806	0.758	0.795	0.763	0.768	0.728	0.761	0.852	0.938										0.805236	7.49	0.075	1
HEXACHLORO-1,3-BUTADIENE	0.456	0.458	0.441	0.428	0.436	0.403	0.407	0.393	0.406	0.453	0.497										0.43442	7.13	0.071	1
Naphthalene	2.313	2.153	1.915	1.944	1.806	1.841	1.987	1.955	2.038	2.235	2.312										2.045296	8.86	0.089	1
1,2,3-Trichlorobenzene	0.851	0.796	0.744	0.713	0.718	0.714	0.715	0.678	0.706	0.807	0.827										0.751692	7.69	0.077	1
1-Methylnaphthalene	1.262	1.049	0.917	0.912	0.897	0.951	0.969	0.929	0.975	1.157	1.118										1.012387	11.78	0.118	1
2-Methylnaphthalene	1.042	0.891	0.798	0.772	0.775	0.763	0.792	0.771	0.778	0.934	0.912										0.838919	10.97	0.11	1
4P9-PENTAFLUOROBENZENE																								
ETHANOL												0.004	0.005	0.004	0.005	0.005	0.004	0.004	0.004	0.005	0.004381	8.32	0.083	1
Bromoethane												0.412	0.426	0.42	0.412	0.391	0.385	0.395	0.383	0.395	0.402219	3.89	0.039	1
2-PROPANOL																					0	0	0	1
Methyl Acetate												0.386	0.423	0.424	0.416	0.383	0.379	0.392	0.4	0.39	0.399253	4.4	0.044	1
ACETONITRILE												0.057	0.059	0.071	0.069	0.066	0.063	0.066	0.067	0.066	0.064874	7.13	0.071	1
ALLYL CHLORIDE												0.228	0.242	0.239	0.242	0.229	0.222	0.237	0.231	0.228	0.233088	3.08	0.031	1
tert-BUTYL ALCOHOL												0.082	0.085	0.092	0.098	0.094	0.088	0.094	0.098	0.095	0.091829	6.14	0.061	1
chloroprene												0.731	0.757	0.761	0.743	0.724	0.705	0.704	0.713	0.704	0.727051	3.08	0.031	1
ETHYL TERT-BUTYL ETHER												1.456	1.555	1.541	1.54	1.511	1.436	1.468	1.407	1.426	1.482265	3.75	0.037	1
PROPIONITRILE												0.071	0.076	0.078	0.075	0.072	0.071	0.072	0.073	0.071	0.073275	3.57	0.036	1
Ethyl Acetate												0.51	0.557	0.56	0.55	0.532	0.526	0.538	0.544	0.52	0.537213	3.14	0.031	1
METHACRYLONITRILE												0.204	0.223	0.215	0.211	0.204	0.202	0.204	0.203	0.2	0.207296	3.58	0.036	1
Cyclohexane												1.224	1.282	1.259	1.244	1.178	1.173	1.185	1.141	1.146	1.203495	4.2	0.042	1
tert-butyl formate												0.309	0.327	0.338	0.332	0.335	0.327	0.33	0.323	0.326	0.327638	2.58	0.026	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 6200
Review Protocol : SM 20th
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:21:03 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.029	0.034	0.033	0.034	0.034	0.032	0.035	0.035	0.034	0.033421	5.69	0.057	1
2-Amyl Alcohol												0.044	0.037	0.043	0.044	0.044	0.041	0.043	0.046	0.047	0.043316	7.36	0.074	1
TERT-AMYL METHYL ETHER												1.597	1.736	1.629	1.601	1.608	1.592	1.622	1.543	1.55	1.608648	3.47	0.035	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.008	0.009	0.009	0.01	0.009	0.009	0.01	0.01	0.01	0.009315	8.4	0.084	1
Methyl Cyclohexane												1.051	0.828	0.738	0.703	0.692	0.679	0.668	0.654	0.67	0.742567	17.1	1	0
2-nitropropane												0.085	0.09	0.09	0.094	0.09	0.089	0.089	0.093	0.092	0.090139	3	0.03	1
METHYL METHACRYLATE												0.282	0.315	0.326	0.322	0.312	0.311	0.31	0.313	0.321	0.312635	4.07	0.041	1
1,4-DIOXANE												0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002995	9.95	0.1	1
n-octane												0.225	0.24	0.241	0.25	0.239	0.235	0.246	0.242	0.24	0.239894	2.92	0.029	1
3,3-DIMETHYL-1-BUTANOL												0.038	0.039	0.04	0.043	0.041	0.039	0.043	0.044	0.045	0.041344	6.46	0.065	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.633	2.122	2.116	2.115	2.075	2.024	2.202	2.16	2.087	2.059357	8.13	0.081	1
CIS-1,4-DICHLORO-2-BUTENE												0.542	0.6	0.616	0.605	0.604	0.604	0.641	0.638	0.603	0.605857	4.69	0.047	1
Cyclohexanone												0.451	0.529	0.521	0.486	0.493	0.473	0.503	0.517	0.503	0.497525	4.97	0.05	1
PENTACHLOROETHANE												1.103	1.207	1.172	1.158	1.175	1.189	1.285	1.195	1.206	1.187876	4.07	0.041	1
Hexachloroethane												1.189	1.459	1.403	1.466	1.41	1.437	1.557	1.455	1.48	1.42858	7.02	0.07	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 8260C
Review Protocol : SW846
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:21:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
8260-PENTAFLUOROBENZENE																									
TPH (GC/MS) LOW FRACTION																					0	0	0	1	
PROPENE				0.16	0.103	0.082	0.076	0.079	0.068	0.073	0.069										0.088783	34.79	0.999	0	
DICHLORODIFLUOROMETHANE	0.569	0.514	0.527	0.533	0.526	0.516	0.513	0.504	0.509	0.514	0.501										0.520576	3.61	0.036	1	0.1
CHLOROMETHANE		0.987	0.868	0.809	0.74	0.709	0.713	0.697	0.664	0.692	0.683										0.75628	13.51	0.135	1	0.1
VINYL CHLORIDE	0.638	0.561	0.566	0.594	0.584	0.589	0.587	0.593	0.589	0.623	0.629										0.595768	4.12	0.041	1	0.1
1,3-BUTADIENE	0.429	0.313	0.306	0.416	0.376	0.398	0.419	0.409	0.4	0.419	0.426										0.391926	11.11	0.111	1	
BROMOMETHANE	0.41	0.483	0.57	0.426	0.46	0.43	0.419	0.401	0.4	0.423	0.41										0.43924	11.39	0.114	1	0.1
CHLOROETHANE	0.328	0.35	0.322	0.352	0.306	0.305	0.3	0.296	0.298	0.254	0.229										0.303617	12.1	0.121	1	0.1
TRICHLOROFLUOROMETHANE	0.732	0.743	0.775	0.76	0.717	0.73	0.729	0.717	0.71	0.742	0.73										0.735035	2.6	0.026	1	0.1
DICHLOROFLUOROMETHANE	0.962	1.035	0.986	0.941	0.924	0.892	0.913	0.903	0.863	0.899	0.868										0.926049	5.6	0.056	1	
ETHYL ETHER	0.389	0.312	0.37	0.363	0.346	0.342	0.352	0.331	0.324	0.345	0.334										0.346166	6.3	0.063	1	
ACROLEIN		0.057	0.064	0.057	0.054	0.061	0.058	0.056	0.056	0.062	0.069										0.059401	7.8	0.078	1	
1,1-DICHLOROETHENE	0.738	0.789	0.69	0.714	0.695	0.681	0.695	0.664	0.656	0.669	0.664										0.695883	5.64	0.056	1	0.1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.442	0.443	0.403	0.432	0.441	0.409	0.435	0.411	0.402	0.409	0.407										0.421258	4	0.04	1	0.1
ACETONE		0.301	0.252	0.234	0.232	0.207	0.226	0.215	0.216	0.284	0.279										0.244643	13.41	0.134	1	0.1
IODOMETHANE		1.261	1.022	0.95	0.893	0.867	0.864	0.854	0.865	0.847	0.86										0.928202	13.89	0.139	1	
CARBON DISULFIDE		2.166	1.834	1.703	1.566	1.526	1.576	1.508	1.48	1.539	1.527										1.642524	12.95	0.13	1	0.1
METHYLENE CHLORIDE		0.709	0.63	0.579	0.559	0.53	0.54	0.526	0.528	0.527	0.513										0.564212	10.88	0.109	1	0.1
ACRYLONITRILE	0.202	0.177	0.181	0.185	0.187	0.184	0.196	0.189	0.187	0.196	0.189										0.188317	3.9	0.039	1	
n-Hexane	0.58	0.504	0.461	0.484	0.488	0.475	0.482	0.453	0.448	0.451	0.438										0.478663	8.21	0.082	1	
TRANS-1,2-DICHLOROETHENE	0.524	0.538	0.535	0.529	0.529	0.51	0.506	0.501	0.492	0.492	0.48										0.512327	3.86	0.039	1	0.1

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 8260C
Review Protocol : SW846
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:21:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
METHYL TERT-BUTYL ETHER	1.362	1.37	1.267	1.311	1.339	1.267	1.343	1.292	1.269	1.297	1.29										1.309696	2.91	0.029	1	0.1
1,1-DICHLOROETHANE	1.041	1.021	1.095	1	1.017	1.004	1.008	0.973	0.966	0.955	0.94										1.001663	4.34	0.043	1	0.2
VINYL ACETATE	1.194	1.169	1.074	1.119	1.105	1.164	1.222	1.1	1.113	1.069	1.023										1.122988	5.25	0.052	1	
DI-ISOPROPYL ETHER	1.877	1.889	1.965	1.912	1.915	1.904	1.936	1.888	1.835	1.848	1.848										1.892424	2.09	0.021	1	
2,2-Dichloropropane	0.802	0.621	0.656	0.634	0.606	0.589	0.629	0.579	0.552	0.561	0.5										0.611741	12.56	0.126	1	
CIS-1,2-DICHLOROETHENE	0.608	0.585	0.585	0.572	0.57	0.571	0.574	0.543	0.536	0.544	0.533										0.565601	4.2	0.042	1	0.1
2-BUTANONE (MEK)	0.354	0.367	0.321	0.35	0.343	0.343	0.364	0.341	0.349	0.38	0.366										0.352695	4.55	0.045	1	0.1
BROMOCHLOROMETHANE	0.356	0.369	0.337	0.352	0.335	0.327	0.343	0.332	0.327	0.333	0.323										0.339313	4.12	0.041	1	
TETRAHYDROFURAN	0.216	0.183	0.163	0.19	0.175	0.17	0.176	0.171	0.164	0.192	0.181										0.180011	8.41	0.084	1	
CHLOROFORM	0.963	0.983	1.005	1.002	0.959	0.936	0.969	0.929	0.902	0.913	0.895										0.950498	4.02	0.04	1	0.2
DIBROMOFLUOROMETHANE	0.623	0.615	0.623	0.621	0.606	0.592	0.605	0.591	0.585	0.585	0.583										0.602579	2.66	0.027	1	
1,1,1-TRICHLOROETHANE	0.728	0.739	0.756	0.737	0.716	0.729	0.721	0.723	0.706	0.725	0.698										0.725092	2.19	0.022	1	0.1
CARBON TETRACHLORIDE	0.78	0.762	0.83	0.785	0.76	0.767	0.777	0.758	0.747	0.781	0.765										0.773771	2.86	0.029	1	0.1
1,1-Dichloropropene	0.702	0.743	0.698	0.737	0.701	0.695	0.704	0.684	0.682	0.672	0.662										0.698326	3.51	0.035	1	
2,2,4-TRIMETHYLPENTANE	2.405	2.306	2.305	2.224	2.104	2.173	2.164	2.079	1.956	1.989	1.798										2.136814	8.28	0.083	1	
HEPTANE	0.855	0.888	1.167	1.077	1.001	1.035	1.039	1.007	0.989	0.953	0.965										0.997805	8.6	0.086	1	
BENZENE	2.479	2.378	2.327	2.214	2.158	2.12	2.076	2.03	1.994	2.027	1.967										2.161054	7.85	0.078	1	0.5
1,2-DICHLOROETHANE	0.741	0.668	0.702	0.721	0.707	0.673	0.677	0.676	0.649	0.661	0.638										0.682999	4.58	0.046	1	0.1
8260-1,4-DIFLUOROBENZENE																									
TRICHLOROETHENE	0.305	0.324	0.312	0.312	0.312	0.31	0.303	0.298	0.293	0.301	0.299										0.306217	2.83	0.028	1	0.2
1,2-DICHLOROPROPANE	0.286	0.245	0.244	0.256	0.253	0.26	0.254	0.252	0.249	0.248	0.244										0.253658	4.7	0.047	1	0.1
DIBROMOMETHANE	0.219	0.215	0.193	0.224	0.207	0.213	0.208	0.205	0.2	0.21	0.204										0.208749	4.12	0.041	1	

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 8260C
Review Protocol : SW846
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:21:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
BROMODICHLOROMETHANE	0.416	0.41	0.425	0.449	0.43	0.442	0.427	0.428	0.43	0.43	0.425										0.428335	2.49	0.025	1	0.2
a,a,a-Trifluorotoluene	0.526	0.536	0.521	0.534	0.518	0.539	0.514	0.503	0.508	0.496	0.48										0.515838	3.53	0.035	1	
-CHLOROETHYL VINYL ETHER	0.154	0.169	0.164	0.178	0.169	0.179	0.179	0.174	0.174	0.181	0.176										0.172411	4.61	0.046	1	
CIS-1,3-DICHLOROPROPENE	0.487	0.526	0.534	0.524	0.515	0.544	0.526	0.533	0.523	0.529	0.533										0.52478	2.81	0.028	1	0.2
4-METHYL-2-PENTANONE (MIBK)	0.309	0.321	0.304	0.344	0.348	0.366	0.378	0.363	0.361	0.382	0.376										0.35017	7.91	0.079	1	0.1
TOLUENE-D8	1.205	1.217	1.201	1.209	1.149	1.182	1.162	1.145	1.144	1.128	1.12										1.169282	2.99	0.03	1	
TOLUENE	1.576	1.406	1.395	1.335	1.247	1.273	1.24	1.229	1.2	1.244	1.256										1.309243	8.51	0.085	1	0.4
TRANS-1,3-DICHLOROPROPENE	0.435	0.437	0.439	0.443	0.451	0.48	0.49	0.483	0.477	0.49	0.485										0.464438	4.99	0.05	1	0.1
8260-2-BROMO-1 -CHLOROPROPANE																									
1,1,2-TRICHLOROETHANE	1.525	1.563	1.553	1.559	1.61	1.548	1.551	1.574	1.567	1.647	1.609										1.573326	2.23	0.022	1	0.1
TETRACHLOROETHENE	1.299	1.312	1.412	1.399	1.323	1.285	1.315	1.322	1.314	1.403	1.389										1.343089	3.51	0.035	1	0.2
1,3-Dichloropropane	3.058	3.036	2.78	2.725	2.871	2.689	2.663	2.667	2.722	2.789	2.672										2.788388	5.11	0.051	1	
2-HEXANONE	0.727	0.689	0.704	0.73	0.832	0.791	0.875	0.889	0.917	0.984	0.957										0.826602	12.72	0.127	1	0.1
CHLORODIBROMOMETHANE	1.479	1.762	1.702	1.808	1.877	1.788	1.841	1.896	1.892	2.021	1.938										1.818577	7.86	0.079	1	0.1
1,2-DIBROMOETHANE	1.78	1.809	1.637	1.767	1.76	1.663	1.682	1.668	1.682	1.771	1.705										1.720374	3.38	0.034	1	0.1
CHLOROBENZENE	4.78	4.706	4.7	4.649	4.767	4.56	4.585	4.72	4.638	4.915	4.825										4.713279	2.23	0.022	1	0.5
1,1,1,2-TETRACHLOROETHANE	1.424	1.459	1.543	1.682	1.702	1.586	1.598	1.628	1.642	1.713	1.698										1.606815	6.1	0.061	1	
ETHYLBENZENE	2.166	2.455	2.398	2.452	2.41	2.339	2.413	2.469	2.416	2.53	2.543										2.417292	4.21	0.042	1	0.1
M&P-XYLENE	3.29	2.975	3.101	3.049	3.094	2.95	3.021	3.034	3.022	3.175	3.18										3.080978	3.27	0.033	1	0.1
O-XYLENE	3.039	2.741	2.951	2.96	3.005	2.83	2.895	2.946	2.925	3.109	3.002										2.945795	3.4	0.034	1	0.3
STYRENE	4.741	4.908	4.554	4.666	4.892	4.697	4.936	5.005	4.887	5.271	5.056										4.873973	4.15	0.041	1	0.3
Bromoform	1.09	1.057	1.081	1.072	1.174	1.112	1.177	1.211	1.227	1.3	1.258										1.159967	7.14	0.071	1	0.1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 8260C
Review Protocol : SW846
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:21:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
Isopropylbenzene	7.321	7.656	7.482	7.502	7.515	7.438	7.581	7.57	7.391	8.044	7.821										7.5747	2.71	0.027	1	0.1
4-BROMOFLUOROBENZENE	2.492	2.553	2.544	2.578	2.553	2.47	2.435	2.514	2.528	2.533	2.433										2.512006	1.94	0.019	1	
Bromobenzene	3.706	3.914	3.714	3.556	3.711	3.388	3.505	3.638	3.422	3.658	3.574										3.616714	4.15	0.041	1	
1,1,2,2-TETRACHLOROETHANE	2.326	2.48	2.529	2.349	2.347	2.227	2.306	2.284	2.312	2.472	2.335										2.360564	3.93	0.039	1	0.3
1,2,3-TRICHLOROPROPANE		0.468	0.48	0.449	0.535	0.519	0.522	0.53	0.537	0.587	0.552										0.51802	7.96	0.08	1	
TRANS-1,4-DICHLORO-2-BUTENE		0.74	0.506	0.536	0.558	0.562	0.587	0.601	0.58	0.643	0.623										0.593522	10.99	0.11	1	
n-Propylbenzene	9.57	9.823	9.657	9.296	9.439	8.878	9.279	9.558	9.144	9.835	9.665										9.467634	3.12	0.031	1	
4-ETHYLTOLUENE	7.948	8.005	7.675	7.556	7.78	7.44	7.539	7.8	7.473	8.094	7.93										7.749036	2.94	0.029	1	
2-Chlorotoluene	1.66	1.996	1.912	1.823	1.922	1.775	1.767	1.832	1.804	1.913	1.869										1.842946	5.03	0.05	1	
4-Chlorotoluene	5.599	5.965	5.611	5.523	5.53	5.409	5.427	5.409	5.47	5.69	5.676										5.573658	2.95	0.029	1	
1,3,5-Trimethylbenzene	6.268	6.044	6.245	6.038	6.165	5.922	5.988	6.2	6.107	6.727	6.545										6.204331	3.9	0.039	1	
tert-Butylbenzene	4.889	4.693	5.08	5.017	5.053	4.752	4.783	5.084	4.976	5.359	5.28										4.996985	4.2	0.042	1	
1,2,4-Trimethylbenzene	6.976	6.311	6.175	6.319	6.156	5.878	6.041	6.18	6.023	6.549	6.364										6.270433	4.75	0.047	1	
sec-Butylbenzene	8.224	7.781	7.871	8.247	8.195	7.946	8.03	8.135	7.882	8.738	8.571										8.147266	3.65	0.036	1	
1,3-DICHLOROBENZENE	3.534	3.593	3.653	3.592	3.558	3.482	3.437	3.441	3.306	3.646	3.538										3.525402	2.92	0.029	1	0.6
p-Isopropyltoluene	6.294	6.676	6.556	6.267	6.489	6.345	6.582	6.391	6.319	6.937	7.097										6.541199	4.15	0.041	1	
DICYCLOPENTADIENE	8.579	9.04	8.666	8.499	8.831	8.36	8.667	8.498	8.35	8.922	8.708										8.646979	2.55	0.026	1	
8260-1,4-DICHLOROBENZENE-D4																									
1,4-DICHLOROBENZENE	1.703	1.565	1.523	1.406	1.386	1.371	1.356	1.331	1.323	1.359	1.394										1.428773	8.29	0.083	1	
1,2,3-TRIMETHYLBENZENE	2.63	2.603	2.446	2.464	2.459	2.418	2.45	2.382	2.378	2.493	2.587										2.482864	3.51	0.035	1	
1,2-DICHLOROBENZENE	1.343	1.402	1.327	1.267	1.272	1.269	1.253	1.261	1.248	1.276	1.279										1.290547	3.66	0.037	1	0.4
n-Butylbenzene	2.443	2.531	2.49	2.455	2.427	2.468	2.454	2.407	2.435	2.508	2.546										2.469417	1.79	0.018	1	

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 8260C
Review Protocol : SW846
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:21:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
1,2-Dibromo-3-chloropropane			0.127	0.144	0.13	0.135	0.15	0.141	0.156	0.166	0.164										0.145891	9.75	0.097	1	0.05
1,2,4-Trichlorobenzene	0.84	0.848	0.806	0.758	0.795	0.763	0.768	0.728	0.761	0.852	0.938										0.805236	7.49	0.075	1	0.2
HEXACHLORO-1,3-BUTADIENE	0.456	0.458	0.441	0.428	0.436	0.403	0.407	0.393	0.406	0.453	0.497										0.43442	7.13	0.071	1	
Naphthalene	2.313	2.153	1.915	1.944	1.806	1.841	1.987	1.955	2.038	2.235	2.312										2.045296	8.86	0.089	1	
1,2,3-Trichlorobenzene	0.851	0.796	0.744	0.713	0.718	0.714	0.715	0.678	0.706	0.807	0.827										0.751692	7.69	0.077	1	
1-Methylnaphthalene	1.262	1.049	0.917	0.912	0.897	0.951	0.969	0.929	0.975	1.157	1.118										1.012387	11.78	0.118	1	
2-Methylnaphthalene	1.042	0.891	0.798	0.772	0.775	0.763	0.792	0.771	0.778	0.934	0.912										0.838919	10.97	0.11	1	
4P9-PENTAFLUOROBENZENE																									
ETHANOL												0.004	0.005	0.004	0.005	0.005	0.004	0.004	0.004	0.005	0.004381	8.32	0.083	1	
Bromoethane												0.412	0.426	0.42	0.412	0.391	0.385	0.395	0.383	0.395	0.402219	3.89	0.039	1	
2-PROPANOL																					0	0	0	1	
Methyl Acetate												0.386	0.423	0.424	0.416	0.383	0.379	0.392	0.4	0.39	0.399253	4.4	0.044	1	0.1
ACETONITRILE												0.057	0.059	0.071	0.069	0.066	0.063	0.066	0.067	0.066	0.064874	7.13	0.071	1	
ALLYL CHLORIDE												0.228	0.242	0.239	0.242	0.229	0.222	0.237	0.231	0.228	0.233088	3.08	0.031	1	
tert-BUTYL ALCOHOL												0.082	0.085	0.092	0.098	0.094	0.088	0.094	0.098	0.095	0.091829	6.14	0.061	1	
chloroprene												0.731	0.757	0.761	0.743	0.724	0.705	0.704	0.713	0.704	0.727051	3.08	0.031	1	
ETHYL TERT-BUTYL ETHER												1.456	1.555	1.541	1.54	1.511	1.436	1.468	1.407	1.426	1.482265	3.75	0.037	1	
PROPIONITRILE												0.071	0.076	0.078	0.075	0.072	0.071	0.072	0.073	0.071	0.073275	3.57	0.036	1	
Ethyl Acetate												0.51	0.557	0.56	0.55	0.532	0.526	0.538	0.544	0.52	0.537213	3.14	0.031	1	
METHACRYLONITRILE												0.204	0.223	0.215	0.211	0.204	0.202	0.204	0.203	0.2	0.207296	3.58	0.036	1	
Cyclohexane												1.224	1.282	1.259	1.244	1.178	1.173	1.185	1.141	1.146	1.203495	4.2	0.042	1	0.1
tert-butyl formate												0.309	0.327	0.338	0.332	0.335	0.327	0.33	0.323	0.326	0.327638	2.58	0.026	1	

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

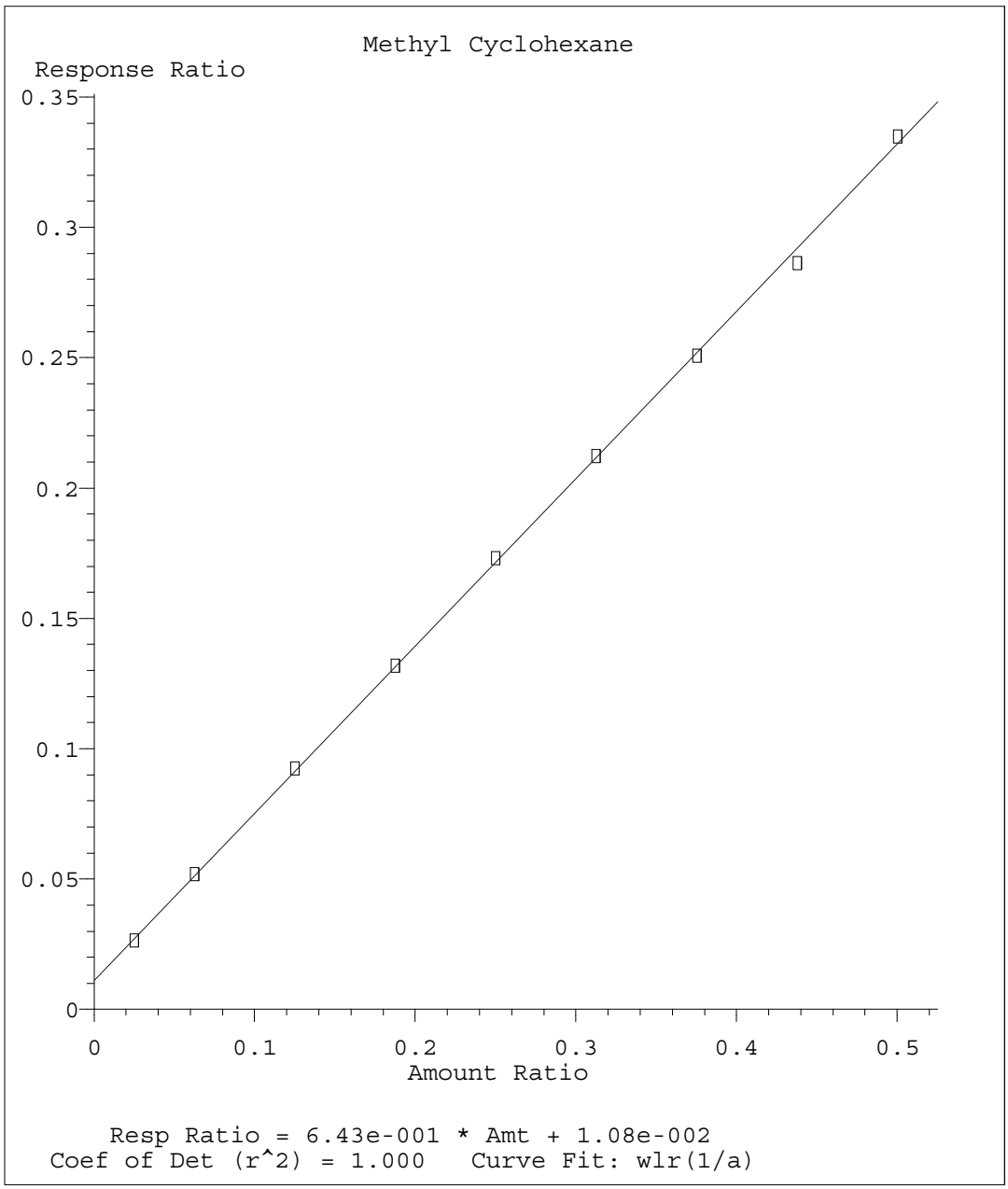
INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS25
Method : V825I15O
Review Method : 8260C
Review Protocol : SW846
Released By : John A. Heath Jr.
Released On : 9/16/2015 3:21:31 PM

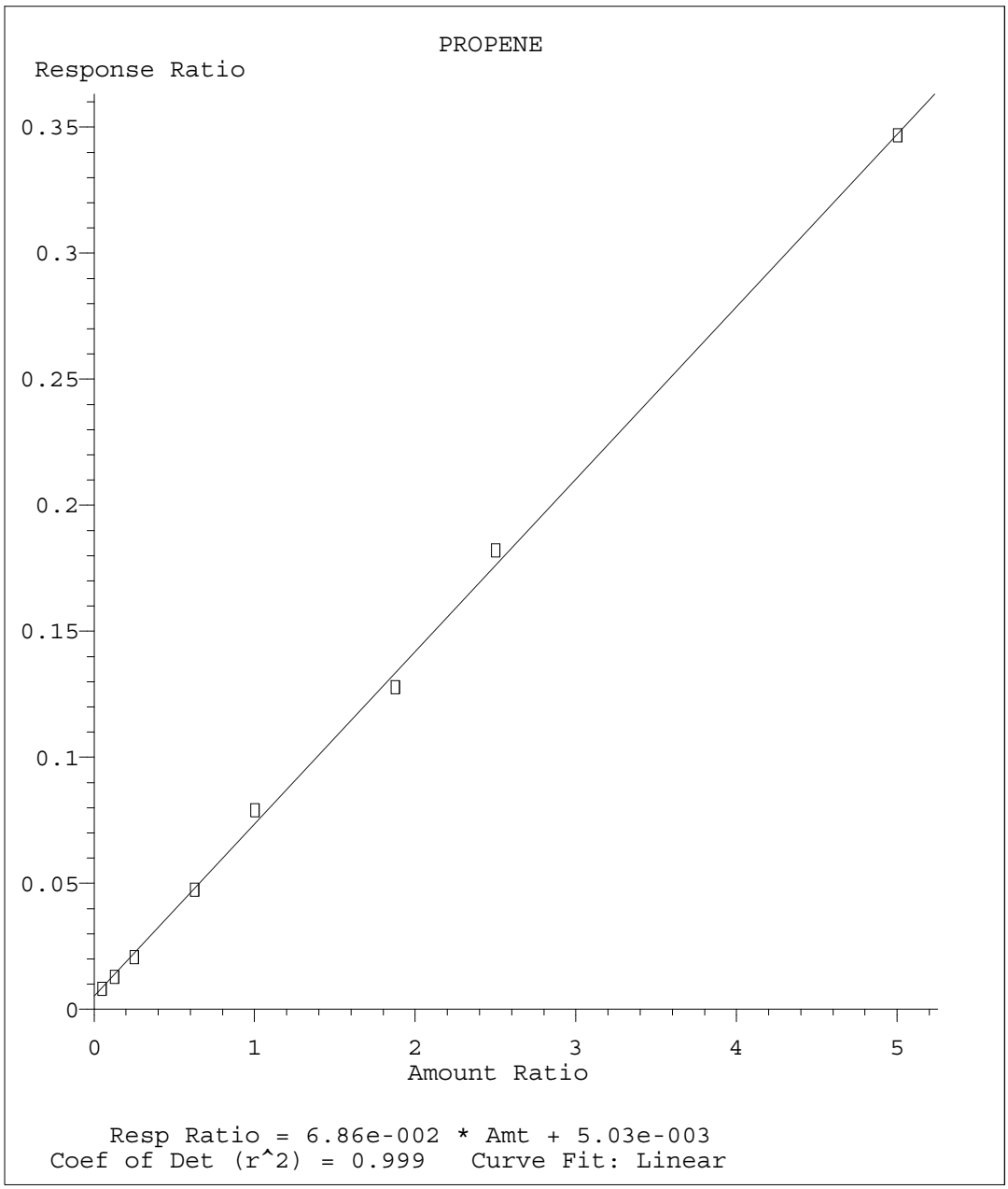
INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V825I15O -- ICal Updated Time: Wed Sep 16 15:00:05 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
ISOBUTANOL												0.029	0.034	0.033	0.034	0.034	0.032	0.035	0.035	0.034	0.033421	5.69	0.057	1	
2-Amyl Alcohol												0.044	0.037	0.043	0.044	0.044	0.041	0.043	0.046	0.047	0.043316	7.36	0.074	1	
TERT-AMYL METHYL ETHER												1.597	1.736	1.629	1.601	1.608	1.592	1.622	1.543	1.55	1.608648	3.47	0.035	1	
AP9-1,4-DIFLUOROBENZENE																									
N-BUTANOL												0.008	0.009	0.009	0.01	0.009	0.009	0.01	0.01	0.01	0.009315	8.4	0.084	1	
Methyl Cyclohexane												1.051	0.828	0.738	0.703	0.692	0.679	0.668	0.654	0.67	0.742567	17.1	1	0	0.1
2-nitropropane												0.085	0.09	0.09	0.094	0.09	0.089	0.089	0.093	0.092	0.090139	3	0.03	1	
METHYL METHACRYLATE												0.282	0.315	0.326	0.322	0.312	0.311	0.31	0.313	0.321	0.312635	4.07	0.041	1	
1,4-DIOXANE												0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.002995	9.95	0.1	1	
n-octane												0.225	0.24	0.241	0.25	0.239	0.235	0.246	0.242	0.24	0.239894	2.92	0.029	1	
3,3-DIMETHYL-1-BUTANOL												0.038	0.039	0.04	0.043	0.041	0.039	0.043	0.044	0.045	0.041344	6.46	0.065	1	
AP9-2-BROMO-1 -CHLOROPROPANE																									
ETHYL METHACRYLATE												1.633	2.122	2.116	2.115	2.075	2.024	2.202	2.16	2.087	2.059357	8.13	0.081	1	
CIS-1,4-DICHLORO-2-BUTENE												0.542	0.6	0.616	0.605	0.604	0.604	0.641	0.638	0.603	0.605857	4.69	0.047	1	
Cyclohexanone												0.451	0.529	0.521	0.486	0.493	0.473	0.503	0.517	0.503	0.497525	4.97	0.05	1	
PENTACHLOROETHANE												1.103	1.207	1.172	1.158	1.175	1.189	1.285	1.195	1.206	1.187876	4.07	0.041	1	
Hexachloroethane												1.189	1.459	1.403	1.466	1.41	1.437	1.557	1.455	1.48	1.42858	7.02	0.07	1	
AP9-1,4-DICHLOROBENZENE-D4																									

PDF Generated On: 09/16/2015 -- By: John A. Heath Jr.



Method Name: C:\msdchem\1\methods\V825I15O.M



Method Name: C:\msdchem\1\methods\V825I15O.M

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 01A.D
Acq On : 15 Sep 2015 11:00 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15A20860
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS25

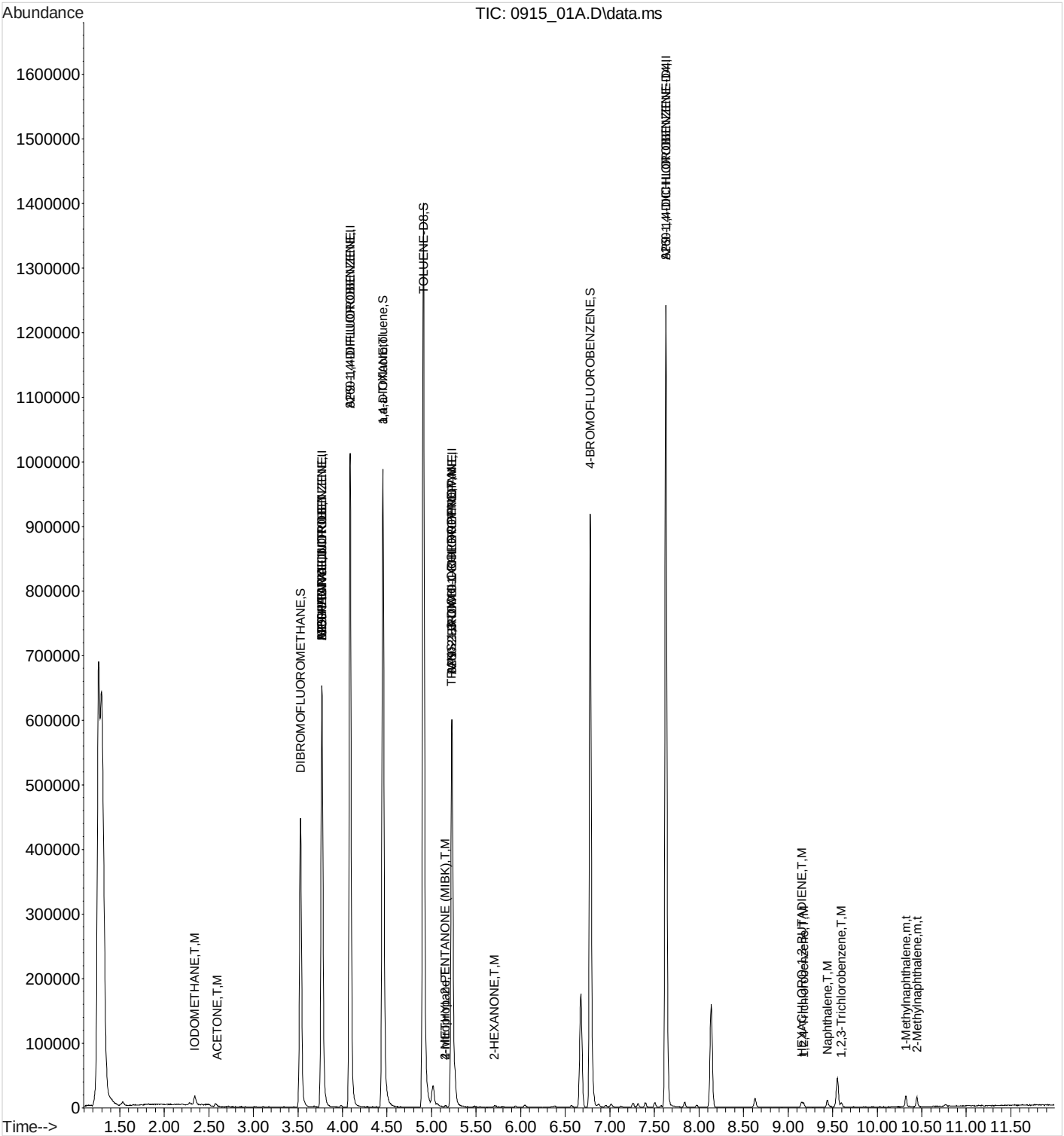
Quant Time: Sep 16 15:15:29 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	3.768	168	367944	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	677171	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.228	79	116019	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	297473	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	3.768	168	367944	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.087	114	677171	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.228	79	116019	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	297473	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.527	111	238643	43.0539552	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 107.63%				
46) a,a,a-Trifluorotoluene	4.453	146	365096	41.8076523	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.52%				
50) TOLUENE-D8	4.910	98	826085	41.7317969	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.33%				
68) 4-BROMOFLUOROBENZENE	6.781	95	300067	41.1839882	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 102.96%				
Target Compounds							Qvalue
3) PROPENE	1.344	41	1218	Below Cal	#	73	
16) ACETONE	2.592	43	1685	0.7487643	ppb	#	43
17) IODOMETHANE	2.341	142	14049	1.6454370	ppb		98
49) 4-METHYL-2-PENTANONE (...	5.154	43	1803	0.3041437	ppb		90
52) TRANS-1,3-DICHLOROPROPENE	5.225	75	5906	0.7511516	ppb	#	1
57) 2-HEXANONE	5.704	58	963	0.4016620	ppb		88
90) 1,2,4-Trichlorobenzene	9.173	180	2358	0.3937611	ppb		93
91) HEXACHLORO-1,3-BUTADIENE	9.154	225	1483	0.4590326	ppb		92
92) Naphthalene	9.440	128	7616	0.5007065	ppb		96
93) 1,2,3-Trichlorobenzene	9.598	180	2234	0.3996277	ppb	#	88
94) 1-Methylnaphthalene	10.324	142	8696	1.1550090	ppb		90
95) 2-Methylnaphthalene	10.447	142	6496	1.0412105	ppb		96
108) METHACRYLONITRILE	3.768	67	1178	0.6177773	ppb	#	1
111) ISOBUTANOL	3.768	43	564	1.8345909	ppb	#	1
116) Methyl Cyclohexane	4.087	83	6852	Below Cal	#	39	
117) 2-nitropropane	5.154	43	1803	1.1815329	ppb	#	17
119) 1,4-DIOXANE	4.453	88	4286	84.5355184	ppb	#	16

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

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 01A.D
Acq On : 15 Sep 2015 11:00 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15A20860
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 15:15:29 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 01A.D
Acq On : 15 Sep 2015 11:00 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15A20860
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 15:15:29 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

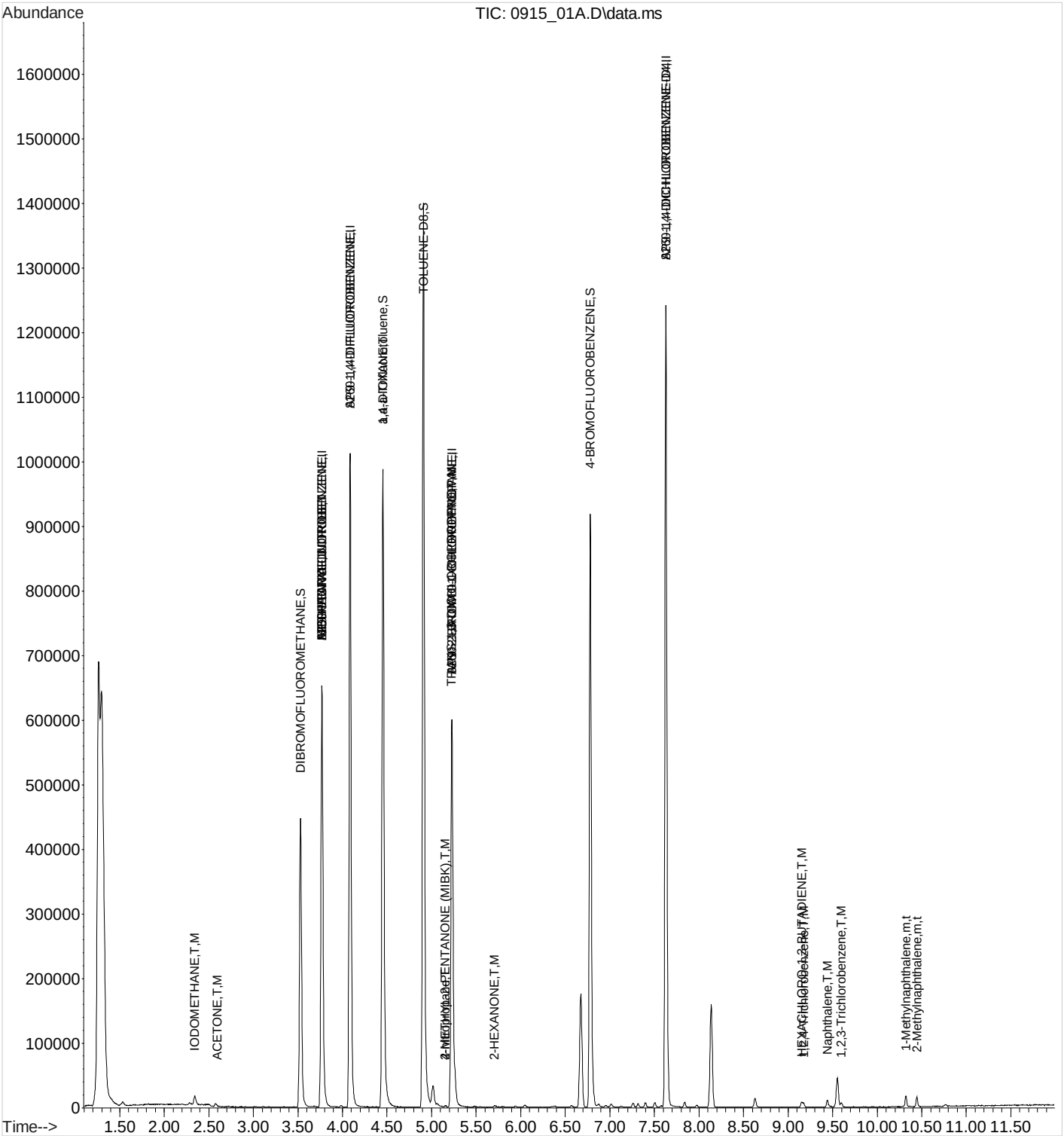
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	3.768	168	367944	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	677171	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.228	79	116019	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	297473	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	3.768	168	367944	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.087	114	677171	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.228	79	116019	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	297473	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.527	111	238643	43.0539552	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 107.63%				
46) a,a,a-Trifluorotoluene	4.453	146	365096	41.8076523	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.52%				
50) TOLUENE-D8	4.910	98	826085	41.7317969	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.33%				
68) 4-BROMOFLUOROBENZENE	6.781	95	300067	41.1839882	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 102.96%				
Target Compounds						Qvalue	
3) PROPENE	1.344	41	1218	Below Cal	#	73	
16) ACETONE	2.592	43	1685	0.7487643	ppb	#	43
17) IODOMETHANE	2.341	142	14049	1.6454370	ppb		98
49) 4-METHYL-2-PENTANONE (...	5.154	43	1803	0.3041437	ppb		90
52) TRANS-1,3-DICHLOROPROPENE	5.225	75	5906	0.7511516	ppb	#	1
57) 2-HEXANONE	5.704	58	963	0.4016620	ppb		88
90) 1,2,4-Trichlorobenzene	9.173	180	2358	0.3937611	ppb		93
91) HEXACHLORO-1,3-BUTADIENE	9.154	225	1483	0.4590326	ppb		92
92) Naphthalene	9.440	128	7616	0.5007065	ppb		96
93) 1,2,3-Trichlorobenzene	9.598	180	2234	0.3996277	ppb	#	88
94) 1-Methylnaphthalene	10.324	142	8696	1.1550090	ppb		90
95) 2-Methylnaphthalene	10.447	142	6496	1.0412105	ppb		96
108) METHACRYLONITRILE	3.768	67	1178	0.6177773	ppb	#	1
111) ISOBUTANOL	3.768	43	564	1.8345909	ppb	#	1
116) Methyl Cyclohexane	4.087	83	6852	Below Cal	#	39	
117) 2-nitropropane	5.154	43	1803	1.1815329	ppb	#	17
119) 1,4-DIOXANE	4.453	88	4286	84.5355184	ppb	#	16

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 01A.D
Acq On : 15 Sep 2015 11:00 am
Operator : 621
Sample : INSTBLK
Misc : water IS/SURR15A20860
ALS Vial : 1 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 15:15:29 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 18AB.D
Acq On : 15 Sep 2015 4:11 pm
Operator : 621
Sample : RL VMS 1a ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 15:00:49 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	3.775	168	410595	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.090	114	692748	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.231	79	117003	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	308564	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	3.775	168	410595	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.090	114	692748	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.231	79	117003	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	308564	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.534	111	236155	38.1794413	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 95.45%				
46) a,a,a-Trifluorotoluene	4.460	146	372698	41.7185147	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.30%				
50) TOLUENE-D8	4.913	98	842758	41.6167635	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.04%				
68) 4-BROMOFLUOROBENZENE	6.784	95	299272	40.7294337	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 101.82%				
Target Compounds						Qvalue	
3) PROPENE	1.344	41	1546	Below Cal	#	89	
16) ACETONE	2.592	43	1952	0.7773079	ppb	#	43
17) IODOMETHANE	2.344	142	3328	0.3492909	ppb	#	88
20) ACRYLONITRILE	2.993	53	37532	19.4159146	ppb	#	50
31) TETRAHYDROFURAN	3.479	42	2834	1.5337251	ppb	#	33
37) 2,2,4-TRIMETHYLPENTANE	3.672	57	26317	1.1998197	ppb	#	1
38) HEPTANE	3.672	43	4002	0.3907310	ppb	#	1
52) TRANS-1,3-DICHLOROPROPENE	5.231	75	5421	0.6739639	ppb	#	1
72) TRANS-1,4-DICHLORO-2-B...	7.058	53	822	0.4734762	ppb	#	25
78) tert-Butylbenzene	7.283	119	16266	1.1128476	ppb	#	31
91) HEXACHLORO-1,3-BUTADIENE	9.154	225	1144	0.3413742	ppb		96
92) Naphthalene	9.443	128	6717	0.4257297	ppb	#	94
93) 1,2,3-Trichlorobenzene	9.601	180	2480	0.4276874	ppb		93
94) 1-Methylnaphthalene	10.324	142	7278	0.9319233	ppb		98
95) 2-Methylnaphthalene	10.447	142	7675	1.1859687	ppb		98
97) ETHANOL	2.202	45	3631	80.7418963	ppb	#	48
98) Bromoethane	2.405	108	4232	1.0250141	ppb		83
100) Methyl Acetate	2.662	43	79231	19.3327313	ppb	#	100
101) ACETONITRILE	2.849	41	29232	43.8969126	ppb		94
102) ALLYL CHLORIDE	2.521	76	11689	4.8854403	ppb		97
103) tert-BUTYL ALCOHOL	2.752	59	4231	4.4885905	ppb	#	89
104) chloroprene	2.993	53	37532	5.0290196	ppb		100
105) ETHYL TERT-BUTYL ETHER	3.119	59	14946	0.9823030	ppb		98
106) PROPIONITRILE	3.752	54	36673	48.7572184	ppb	#	82
107) Ethyl Acetate	3.479	43	52342	9.4918343	ppb		99
108) METHACRYLONITRILE	3.768	67	104664	49.1871951	ppb		99
109) Cyclohexane	3.428	56	12566	1.0171829	ppb		96
110) tert-butyl formate	3.675	59	31718	9.4310084	ppb		93
111) ISOBUTANOL	3.829	43	29601	86.2848553	ppb		93
112) t-Amyl Alcohol	3.891	59	2275	5.1165542	ppb		96
113) TERT-AMYL METHYL ETHER	3.813	73	16389	0.9925166	ppb		81
115) N-BUTANOL	4.222	56	26393	163.5974291	ppb		98
116) Methyl Cyclohexane	4.096	83	18194	0.9641405	ppb	#	78

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 18AB.D
Acq On : 15 Sep 2015 4:11 pm
Operator : 621
Sample : RL VMS 1a ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS25

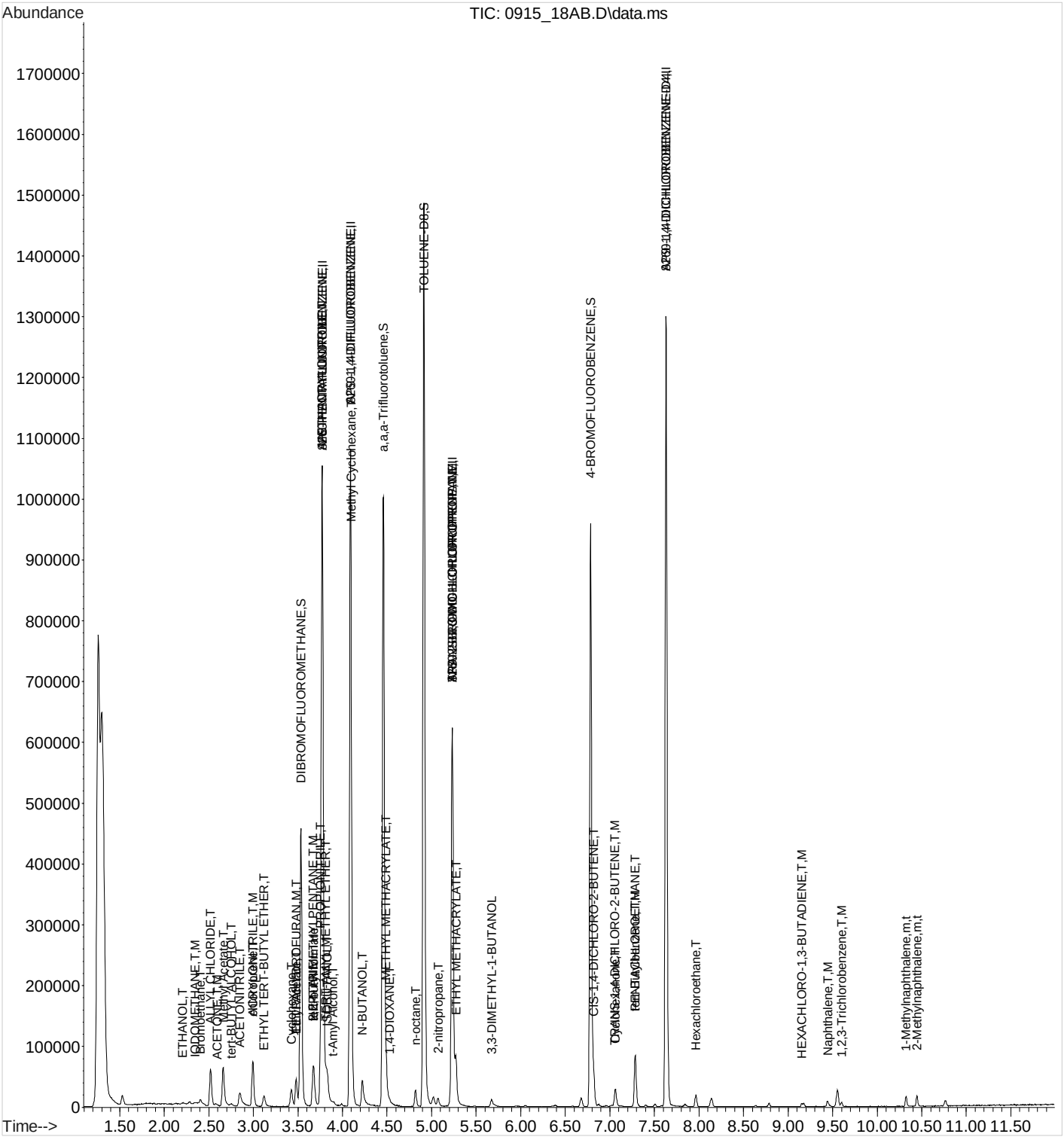
Quant Time: Sep 16 15:00:49 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
117) 2-nitropropane	5.074	43	7344	4.7044172	ppb		88
118) METHYL METHACRYLATE	4.485	41	24443	4.5144174	ppb	#	33
119) 1,4-DIOXANE	4.530	88	3935	75.8673406	ppb	#	89
120) n-octane	4.820	85	3900	0.9387084	ppb		92
121) 3,3-DIMETHYL-1-BUTANOL	5.675	57	6534	9.1253204	ppb		91
123) ETHYL METHACRYLATE	5.276	69	23887	3.9654552	ppb	#	36
124) CIS-1,4-DICHLORO-2-BUTENE	6.816	53	7931	4.4752828	ppb	#	19
125) Cyclohexanone	7.061	55	13199	9.0696274	ppb		97
126) PENTACHLOROETHANE	7.283	117	16133	4.6430875	ppb		98
127) Hexachloroethane	7.964	117	3479	0.8325546	ppb		95

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

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 18AB.D
Acq On : 15 Sep 2015 4:11 pm
Operator : 621
Sample : RL VMS 1a ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 15:00:49 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 16A.D
Acq On : 15 Sep 2015 3:34 pm
Operator : 621
Sample : SSCV VMS 25 ppb 15I04620
Misc : water IS/SURR15A20860
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:43:37 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:36:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	3.775	168	399885	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.090	114	683850	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.231	79	114151	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	307551	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	3.775	168	399885	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.090	114	683850	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.231	79	114151	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	307551	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.534	111	239963	39.8341220	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 99.59%			
46) a,a,a-Trifluorotoluene	4.460	146	368716	41.8098095	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.52%			
50) TOLUENE-D8	4.913	98	850542	42.5476534	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 106.37%			
68) 4-BROMOFLUOROBENZENE	6.784	95	303939	42.3980607	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 106.00%			
Target Compounds						Qvalue
3) PROPENE	1.354	41	12464	15.2433489	ppb	99
4) DICHLORODIFLUOROMETHANE	1.389	85	121306	23.3089667	ppb	98
5) CHLOROMETHANE	1.521	50	170458	22.5454987	ppb	100
6) VINYL CHLORIDE	1.588	62	143452	24.0854234	ppb	98
7) 1,3-BUTADIENE	1.592	39	94781	24.1903211	ppb	96
8) BROMOMETHANE	1.797	94	99487	22.6563122	ppb	98
9) CHLOROETHANE	1.878	64	76072	25.0624549	ppb	98
10) TRICHLOROFLUOROMETHANE	1.961	101	175331	23.8602885	ppb	99
11) DICHLOROFLUOROMETHANE	1.993	67	219860	23.7485451	ppb	100
12) ETHYL ETHER	2.132	59	84423	24.3950052	ppb	99
13) ACROLEIN	2.434	56	77586	130.6505542	ppb	96
14) 1,1-DICHLOROETHENE	2.257	61	166242	23.8962356	ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.289	101	107446	25.5133209	ppb	98
16) ACETONE	2.595	43	374064	152.9458618	ppb	100
17) IODOMETHANE	2.344	142	1055683	113.7669180	ppb	100
18) CARBON DISULFIDE	2.286	76	387678	23.6093608	ppb	99
19) METHYLENE CHLORIDE	2.575	84	134573	23.8583517	ppb	98
20) ACRYLONITRILE	3.016	53	250859	133.2491275	ppb	99
21) n-Hexane	2.717	56	117921	24.6425753	ppb	93
22) TRANS-1,2-DICHLOROETHENE	2.672	96	125452	24.4937232	ppb	98
23) METHYL TERT-BUTYL ETHER	2.723	73	321511	24.5555827	ppb	99
24) 1,1-DICHLOROETHANE	3.003	63	248132	24.7791271	ppb	98
25) VINYL ACETATE	3.119	43	1348013	120.0726321	ppb	100
26) DI-ISOPROPYL ETHER	2.923	45	472102	24.9541232	ppb	99
27) 2,2-Dichloropropane	3.357	77	147632	24.1400148	ppb	98
28) CIS-1,2-DICHLOROETHENE	3.296	96	138788	24.5452032	ppb	100
29) 2-BUTANONE (MEK)	3.588	43	469392	133.1253571	ppb	99
30) BROMOCHLOROMETHANE	3.402	130	82942	24.4511046	ppb	100
31) TETRAHYDROFURAN	3.530	42	46665	25.9308936	ppb	97
32) CHLOROFORM	3.434	83	236359	24.8740128	ppb	100
34) 1,1,1-TRICHLOROETHANE	3.563	97	177723	24.5174658	ppb	99
35) CARBON TETRACHLORIDE	3.534	117	194854	25.1896326	ppb	99
36) 1,1-Dichloropropene	3.630	75	174806	25.0393439	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 16A.D
Acq On : 15 Sep 2015 3:34 pm
Operator : 621
Sample : SSCV VMS 25 ppb 15I04620
Misc : water IS/SURR15A20860
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:43:37 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:36:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	3.685	57	534227	25.0082890 ppb		98
38) HEPTANE	3.733	43	252552	25.3180432 ppb		97
39) BENZENE	3.765	78	505548	23.4003101 ppb		99
40) 1,2-DICHLOROETHANE	3.868	62	165736	24.2728896 ppb		99
42) TRICHLOROETHENE	4.090	130	130656	24.9573971 ppb		99
43) 1,2-DICHLOROPROPANE	4.386	62	109310	25.2064093 ppb		99
44) DIBROMOMETHANE	4.331	93	87400	24.4898762 ppb		97
45) BROMODICHLOROMETHANE	4.415	83	181346	24.7641595 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	4.736	63	351776	119.3442612 ppb		100
48) CIS-1,3-DICHLOROPROPENE	4.791	75	223376	24.8976522 ppb		100
49) 4-METHYL-2-PENTANONE (...	5.157	43	751090	125.4621228 ppb		100
51) TOLUENE	4.945	91	531213	23.7327221 ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.189	75	205958	25.9388269 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.299	97	114764	25.5603806 ppb		99
55) TETRACHLOROETHENE	5.202	164	94087	24.5473815 ppb		97
56) 1,3-Dichloropropane	5.479	76	193773	24.3512012 ppb		99
57) 2-HEXANONE	5.701	58	320541	135.8837201 ppb		99
58) CHLORODIBROMOMETHANE	5.424	129	136432	26.2884420 ppb		99
59) 1,2-DIBROMOETHANE	5.591	107	122723	24.9967326 ppb		100
60) CHLOROBENZENE	5.939	112	344420	25.6062194 ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	5.977	133	115822	25.2583843 ppb	#	99
62) ETHYLBENZENE	5.948	106	180302	26.1367553 ppb		100
63) M&P-XYLENE	6.045	106	439087	49.9392727 ppb		100
64) O-XYLENE	6.350	106	215624	25.6492585 ppb		100
65) STYRENE	6.386	104	372996	26.8164526 ppb		99
66) Bromoform	6.411	173	88101	26.6143211 ppb		99
67) Isopropylbenzene	6.572	105	547397	25.3231227 ppb		99
69) Bromobenzene	6.868	77	260583	25.2471363 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	6.916	83	171555	25.4664221 ppb		98
71) 1,2,3-TRICHLOROPROPANE	7.025	110	39883	26.9787132 ppb		100
72) TRANS-1,4-DICHLORO-2-B...	7.048	53	45885	27.0903331 ppb		96
73) n-Propylbenzene	6.878	91	688355	25.4771765 ppb		99
74) 4-ETHYLTOLUENE	6.958	105	554109	25.0569261 ppb		100
75) 2-Chlorotoluene	7.003	126	135643	25.7908196 ppb		82
76) 4-Chlorotoluene	7.125	91	408859	25.7047595 ppb		99
77) 1,3,5-Trimethylbenzene	7.019	105	467938	26.4285674 ppb		98
78) tert-Butylbenzene	7.263	119	374252	26.2443798 ppb		99
79) 1,2,4-Trimethylbenzene	7.315	105	454914	25.4221366 ppb		99
80) sec-Butylbenzene	7.402	105	596758	25.6664993 ppb		100
81) 1,3-DICHLOROBENZENE	7.575	146	254739	25.3201993 ppb		100
82) p-Isopropyltoluene	7.508	119	476155	25.5076977 ppb		99
83) DICYCLOPENTADIENE	7.501	66	591147	23.9558386 ppb		100
85) 1,4-DICHLOROBENZENE	7.643	146	258714	23.5504631 ppb		98
86) 1,2,3-TRIMETHYLBENZENE	7.656	105	467197	24.4731536 ppb		99
87) 1,2-DICHLOROBENZENE	7.974	146	247755	24.9684465 ppb		99
88) n-Butylbenzene	7.839	91	482386	25.4063953 ppb		100
89) 1,2-Dibromo-3-chloropr...	8.607	157	30379	27.0825174 ppb		98
90) 1,2,4-Trichlorobenzene	9.173	180	150963	24.3831560 ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.154	225	82282	24.6341502 ppb		98
92) Naphthalene	9.440	128	401663	25.5416249 ppb		99
93) 1,2,3-Trichlorobenzene	9.598	180	142162	24.5972414 ppb		99
94) 1-Methylnaphthalene	10.321	142	206965	26.5884575 ppb		99
95) 2-Methylnaphthalene	10.447	142	168113	26.0629901 ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 16A.D
Acq On : 15 Sep 2015 3:34 pm
Operator : 621
Sample : SSCV VMS 25 ppb 15I04620
Misc : water IS/SURR15A20860
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS25

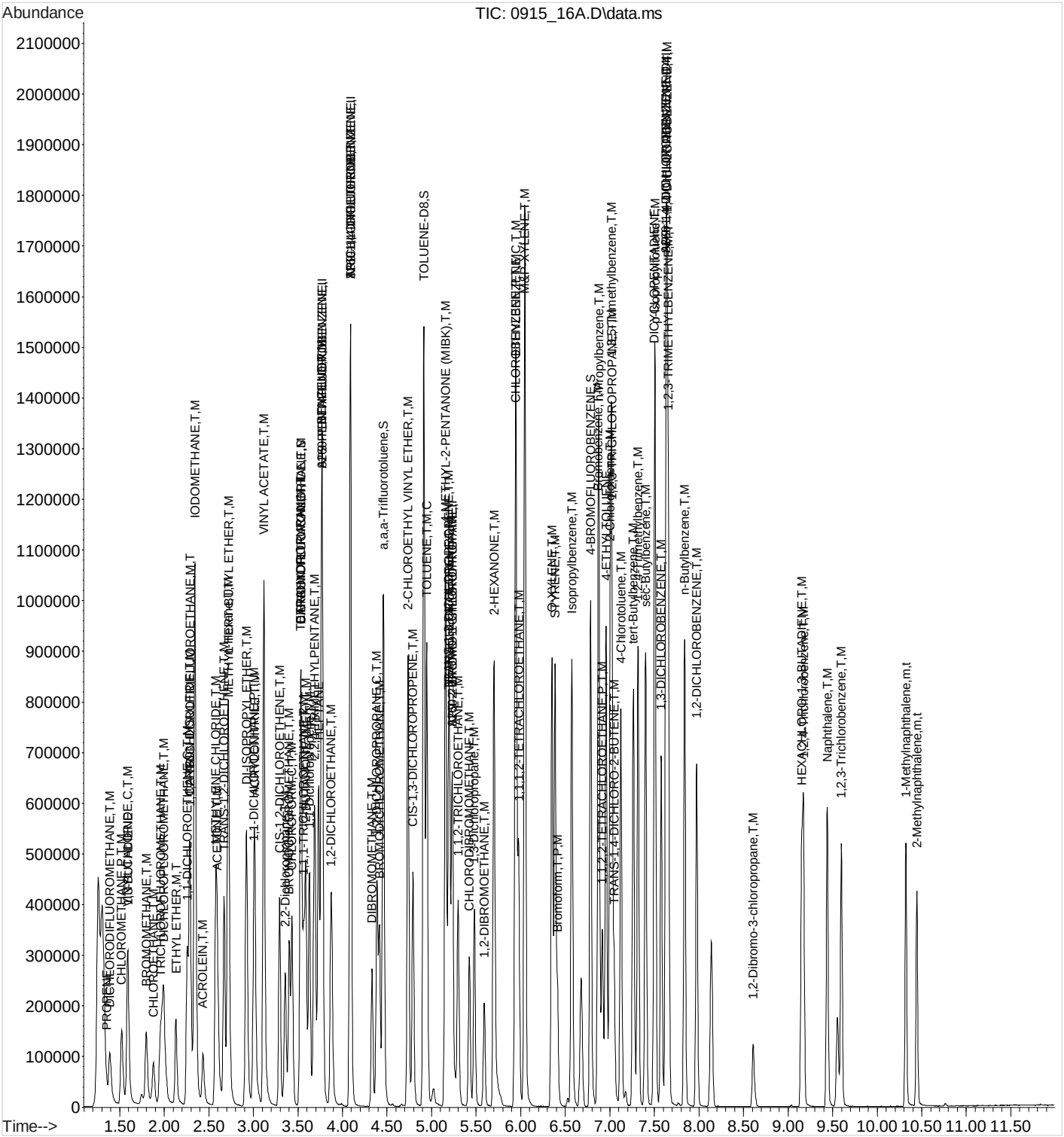
Quant Time: Sep 16 14:43:37 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:36:30 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 16A.D
Acq On : 15 Sep 2015 3:34 pm
Operator : 621
Sample : SSCV VMS 25 ppb 15I04620
Misc : water IS/SURR15A20860
ALS Vial : 16 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:43:37 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:36:30 2015
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 28A.D
Acq On : 15 Sep 2015 7:13 pm
Operator : 621
Sample : SSCV VMS 10a ppb 15H19752
Misc : water IS/SURR15A20860
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 15:01:53 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	3.775	168	394415	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.090	114	622194	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.231	79	106187	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	288154	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	3.775	168	394415	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.090	114	622194	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.231	79	106187	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	288154	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.534	111	218809	36.8262789	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 92.07%				
46) a,a,a-Trifluorotoluene	4.456	146	342126	42.6390301	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 106.60%				
50) TOLUENE-D8	4.913	98	752521	41.3745711	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 103.44%				
68) 4-BROMOFLUOROBENZENE	6.784	95	277170	41.5636954	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.91%				
Target Compounds							Qvalue
3) PROPENE	1.341	41	1082	Below Cal			96
5) CHLOROMETHANE	1.527	50	3964	0.5315667	ppb	#	73
16) ACETONE	2.591	43	1232	0.5107216	ppb	#	43
20) ACRYLONITRILE	2.993	53	363535	195.7774229	ppb	#	50
24) 1,1-DICHLOROETHANE	2.993	63	5643	0.5713404	ppb	#	42
25) VINYL ACETATE	3.119	43	12888	1.1639040	ppb	#	81
31) TETRAHYDROFURAN	3.476	42	32209	18.1461771	ppb	#	33
32) CHLOROFORM	3.424	83	5503	0.5871579	ppb	#	57
37) 2,2,4-TRIMETHYLPENTANE	3.672	57	256632	12.1800941	ppb	#	1
38) HEPTANE	3.672	43	48378	4.9170987	ppb	#	1
42) TRICHLOROETHENE	4.090	130	3427	0.7194806	ppb	#	66
49) 4-METHYL-2-PENTANONE (...	5.070	43	74059	13.5967004	ppb	#	38
52) TRANS-1,3-DICHLOROPROPENE	5.231	75	5485	0.7592474	ppb	#	1
55) TETRACHLOROETHENE	5.202	164	13414	3.7622030	ppb		98
57) 2-HEXANONE	5.672	58	2959	1.3484572	ppb	#	1
61) 1,1,1,2-TETRACHLOROETHANE	5.980	133	2134	0.5002848	ppb	#	99
69) Bromobenzene	6.816	77	32675	3.4032199	ppb	#	26
70) 1,1,2,2-TETRACHLOROETHANE	7.064	83	11947	1.9064779	ppb	#	24
72) TRANS-1,4-DICHLORO-2-B...	7.058	53	7395	4.6934280	ppb	#	53
73) n-Propylbenzene	6.816	91	12802	0.5093602	ppb	#	68
78) tert-Butylbenzene	7.286	119	149023	11.2339854	ppb	#	31
97) ETHANOL	2.209	45	35572	823.4575451	ppb	#	96
98) Bromoethane	2.405	108	39602	9.9853093	ppb		99
100) Methyl Acetate	2.659	43	798611	202.8586816	ppb	#	99
101) ACETONITRILE	2.849	41	296575	463.6286002	ppb		96
102) ALLYL CHLORIDE	2.518	76	116312	50.6070598	ppb		99
103) tert-BUTYL ALCOHOL	2.755	59	39104	43.1865368	ppb		95
104) chloroprene	2.993	53	363535	50.7093542	ppb		100
105) ETHYL TERT-BUTYL ETHER	3.119	59	141705	9.6954033	ppb		99
106) PROPIONITRILE	3.749	54	368983	510.6920225	ppb		99
107) Ethyl Acetate	3.476	43	561870	106.0708170	ppb		99
108) METHACRYLONITRILE	3.765	67	1026763	502.3254388	ppb		100
109) Cyclohexane	3.427	56	116606	9.8261441	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 28A.D
Acq On : 15 Sep 2015 7:13 pm
Operator : 621
Sample : SSCV VMS 10a ppb 15H19752
Misc : water IS/SURR15A20860
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS25

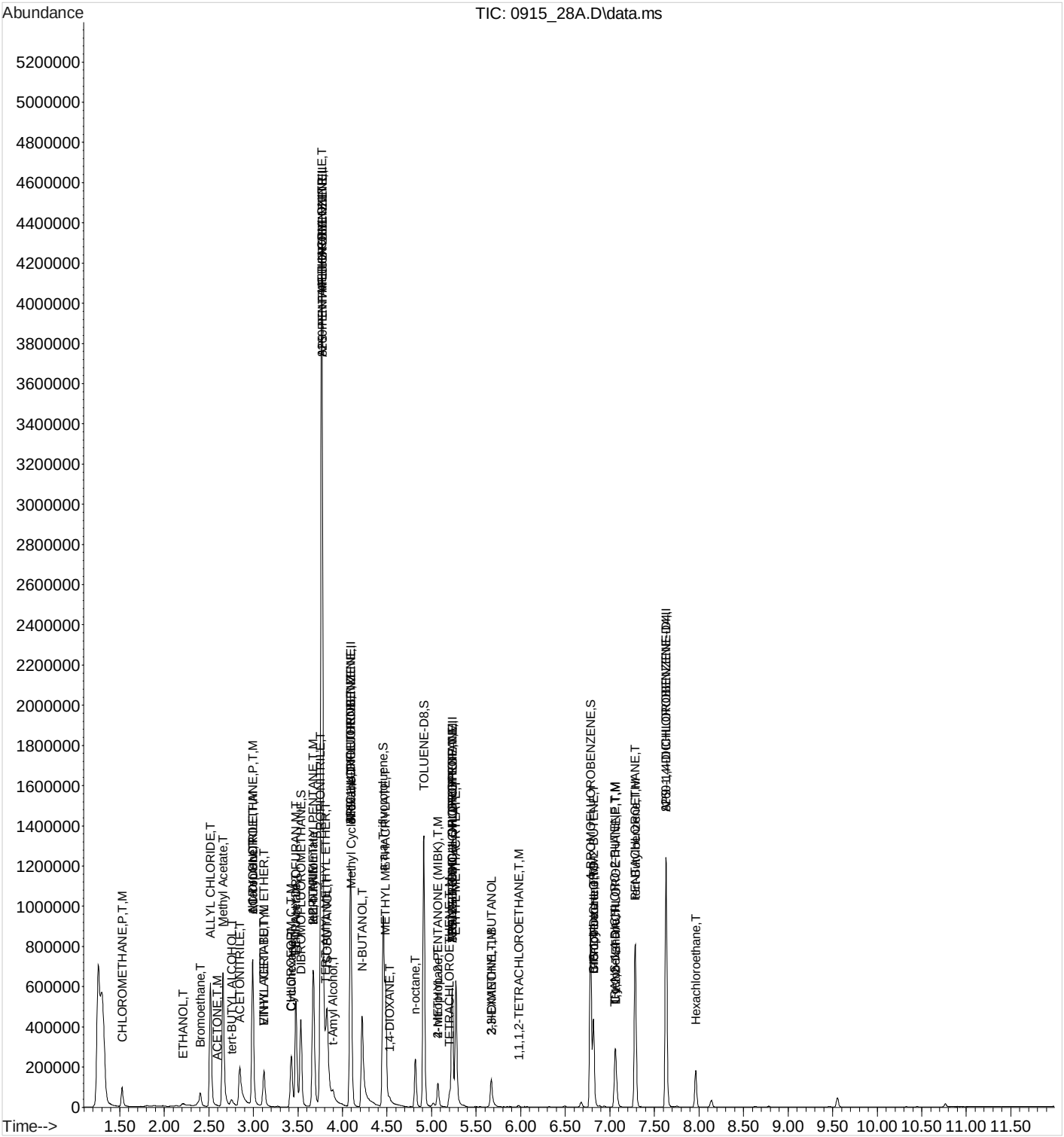
Quant Time: Sep 16 15:01:53 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
110) tert-butyl formate	3.672	59	326193	100.9688024 ppb		98
111) ISOBUTANOL	3.829	43	293728	891.3202504 ppb	#	81
112) t-Amyl Alcohol	3.894	59	18906	44.2645510 ppb		92
113) TERT-AMYL METHYL ETHER	3.810	73	155866	9.8264571 ppb		85
115) N-BUTANOL	4.222	56	316260	2182.6366589 ppb		97
116) Methyl Cyclohexane	4.099	83	108035	10.1372553 ppb		99
117) 2-nitropropane	5.070	43	74059	52.8202515 ppb		97
118) METHYL METHACRYLATE	4.482	41	252507	51.9242328 ppb		95
119) 1,4-DIOXANE	4.530	88	39520	848.3528477 ppb	#	80
120) n-octane	4.816	85	36831	9.8702710 ppb		98
121) 3,3-DIMETHYL-1-BUTANOL	5.669	57	69740	108.4427187 ppb		98
123) ETHYL METHACRYLATE	5.273	69	284076	51.9626905 ppb		97
124) CIS-1,4-DICHLORO-2-BUTENE	6.816	53	79414	49.3759261 ppb		98
125) Cyclohexanone	7.061	55	132092	100.0116474 ppb		100
126) PENTACHLOROETHANE	7.283	117	155815	49.4113419 ppb		100
127) Hexachloroethane	7.964	117	38477	10.1457730 ppb		97

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

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 28A.D
Acq On : 15 Sep 2015 7:13 pm
Operator : 621
Sample : SSCV VMS 10a ppb 15H19752
Misc : water IS/SURR15A20860
ALS Vial : 28 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 15:01:53 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 15:00:05 2015
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 04A.D
Acq On : 15 Sep 2015 11:55 am
Operator : 621
Sample : STD VMS 0.25 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:28:36 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	3.772	168	383594	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.090	114	676448	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.231	79	117400	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	295369	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-3.78
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.10
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.24
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-7.64
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.531	111	239033	41.2050234	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.01%				
46) a,a,a-Trifluorotoluene	4.457	146	356028	40.9774716	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.44%				
50) TOLUENE-D8	4.910	98	815260	41.4861339	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 103.72%				
68) 4-BROMOFLUOROBENZENE	6.781	95	292514	40.9267045	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 102.32%				
Target Compounds							Qvalue
3) PROPENE	1.344	41	1450	1.9954570	ppb	#	86
4) DICHLORODIFLUOROMETHANE	1.389	85	1364	0.2770128	ppb	#	41
5) CHLOROMETHANE	1.515	50	2555	0.3736795	ppb	#	92
6) VINYL CHLORIDE	1.592	62	1530	0.2717635	ppb	#	50
7) 1,3-BUTADIENE	1.585	39	1029	0.2558724	ppb	#	78
8) BROMOMETHANE	1.794	94	982	0.2445234	ppb	#	68
9) CHLOROETHANE	1.875	64	787	0.2737613	ppb	#	43
10) TRICHLOROFLUOROMETHANE	1.962	101	1755	0.2510613	ppb	#	82
11) DICHLOROFLUOROMETHANE	1.994	67	2307	0.2635047	ppb	#	88
12) ETHYL ETHER	2.129	59	933	0.2767494	ppb	#	83
13) ACROLEIN	2.437	56	1209	2.1827688	ppb	#	70
14) 1,1-DICHLOROETHENE	2.257	61	1770	0.2655544	ppb	#	90
15) 1,1,2-TRICHLOROTRIFLUO...	2.293	101	1059	0.2538864	ppb	#	57
16) ACETONE	2.595	43	4212	1.9392016	ppb		90
17) IODOMETHANE	2.344	142	19002	2.2927622	ppb		99
18) CARBON DISULFIDE	2.286	76	6971	0.4611201	ppb	#	78
19) METHYLENE CHLORIDE	2.576	84	1999	0.3857355	ppb		92
20) ACRYLONITRILE	3.019	53	2426	1.2920499	ppb		96
21) n-Hexane	2.720	56	1391	0.3009253	ppb	#	80
22) TRANS-1,2-DICHLOROETHENE	2.675	96	1256	0.2589892	ppb		94
23) METHYL TERT-BUTYL ETHER	2.724	73	3265	0.2534304	ppb		94
24) 1,1-DICHLOROETHANE	3.003	63	2495	0.2581177	ppb		98
25) VINYL ACETATE	3.122	43	14312	1.2216940	ppb		97
26) DI-ISOPROPYL ETHER	2.926	45	4499	0.2422672	ppb		91
27) 2,2-Dichloropropane	3.354	77	1922	0.3186875	ppb	#	57
28) CIS-1,2-DICHLOROETHENE	3.293	96	1458	0.2648470	ppb		97
29) 2-BUTANONE (MEK)	3.592	43	4246	1.2163898	ppb		94
30) BROMOCHLOROMETHANE	3.402	130	853	0.2596976	ppb		99
31) TETRAHYDROFURAN	3.531	42	517	0.3065997	ppb	#	33
32) CHLOROFORM	3.434	83	2308	0.2484260	ppb	#	93
34) 1,1,1-TRICHLOROETHANE	3.563	97	1746	0.2526872	ppb		95
35) CARBON TETRACHLORIDE	3.531	117	1870	0.2505627	ppb		89
36) 1,1-Dichloropropene	3.627	75	1682	0.2490326	ppb		96

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 04A.D
Acq On : 15 Sep 2015 11:55 am
Operator : 621
Sample : STD VMS 0.25 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS25

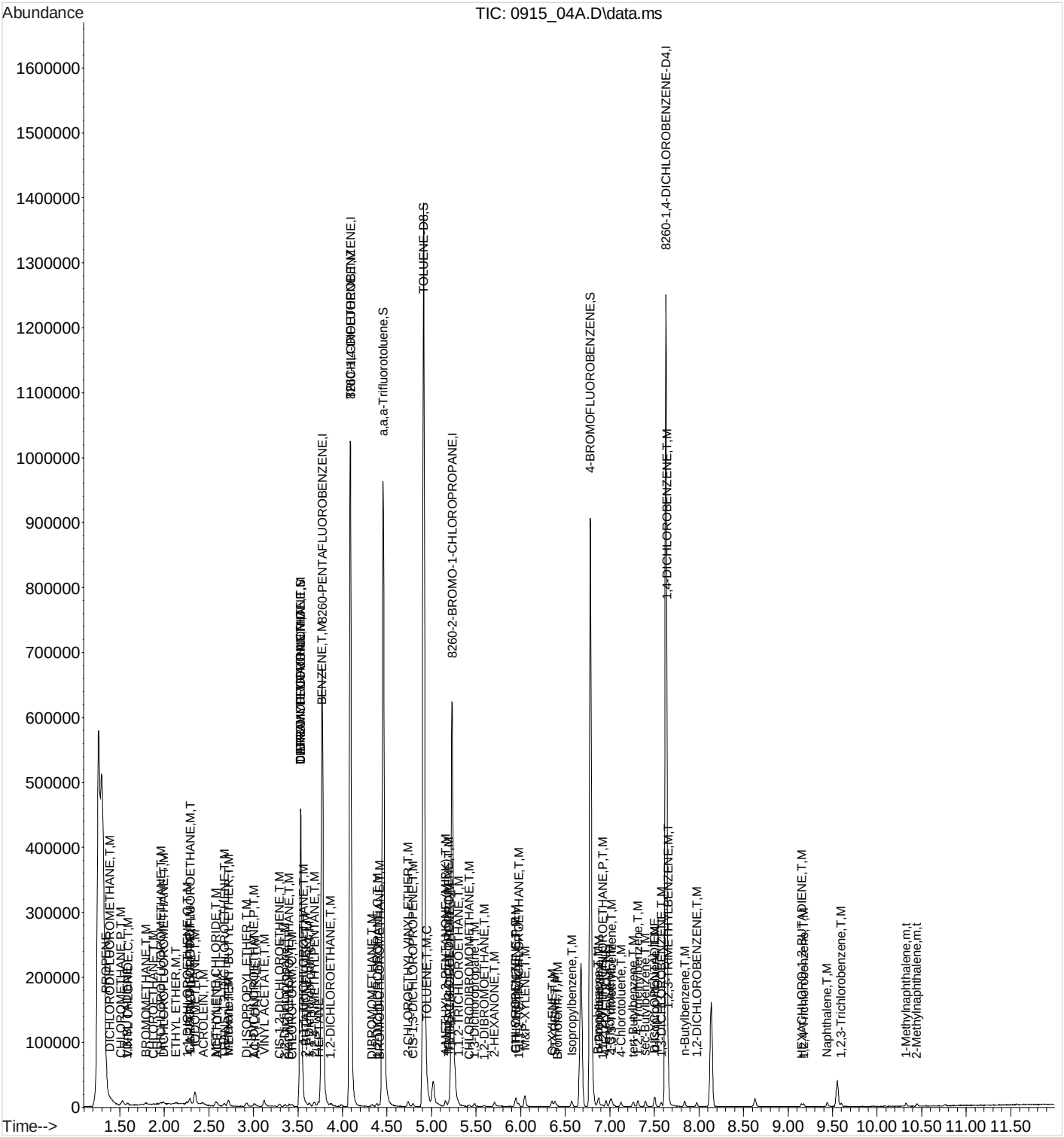
Quant Time: Sep 16 14:28:36 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	3.688	57	5767	0.2778899 ppb		91
38) HEPTANE	3.733	43	2049	0.2056791 ppb		93
39) BENZENE	3.765	78	5943	0.2984198 ppb	#	1
40) 1,2-DICHLOROETHANE	3.865	62	1777	0.2736868 ppb	#	76
42) TRICHLOROETHENE	4.090	130	1290	0.2518794 ppb		91
43) 1,2-DICHLOROPROPANE	4.389	62	1210	0.2817757 ppb	#	84
44) DIBROMOMETHANE	4.331	93	925	0.2635639 ppb	#	83
45) BROMODICHLOROMETHANE	4.415	83	1760	0.2439761 ppb	#	87
47) 2-CHLOROETHYL VINYL ETHER	4.736	63	3262	1.0761949 ppb	#	92
48) CIS-1,3-DICHLOROPROPENE	4.791	75	2057	0.2313842 ppb	#	97
49) 4-METHYL-2-PENTANONE (...	5.158	43	6540	1.0216158 ppb		93
51) TOLUENE	4.945	91	6665	0.3177581 ppb		93
52) TRANS-1,3-DICHLOROPROPENE	5.190	75	1838	0.2217152 ppb	#	52
54) 1,1,2-TRICHLOROETHANE	5.302	97	1119	0.2457393 ppb	#	85
55) TETRACHLOROETHENE	5.199	164	953	0.2468903 ppb		90
56) 1,3-Dichloropropane	5.482	76	2244	0.2871216 ppb		94
57) 2-HEXANONE	5.704	58	2666	1.0384258 ppb		91
58) CHLORODIBROMOMETHANE	5.424	129	1085	0.2007630 ppb	#	74
59) 1,2-DIBROMOETHANE	5.588	107	1306	0.2645551 ppb		92
60) CHLOROBENZENE	5.942	112	3507	0.2605852 ppb		94
61) 1,1,1,2-TETRACHLOROETHANE	5.981	133	1045	0.2228132 ppb	#	98
62) ETHYLBENZENE	5.945	106	1589	0.2243900 ppb		72
63) M&P-XYLENE	6.048	106	4828	0.5445619 ppb		100
64) O-XYLENE	6.350	106	2230	0.2622768 ppb		96
65) STYRENE	6.386	104	3479	0.2413437 ppb		98
66) Bromoform	6.412	173	800	0.2316234 ppb	#	27
67) Isopropylbenzene	6.572	105	5372	0.2414244 ppb		96
69) Bromobenzene	6.868	77	2719	0.2643245 ppb		95
70) 1,1,2,2-TETRACHLOROETHANE	6.920	83	1707	0.2522237 ppb	#	89
73) n-Propylbenzene	6.878	91	7022	0.2578462 ppb		97
74) 4-ETHYLTOLUENE	6.955	105	5832	0.2635851 ppb		100
75) 2-Chlorotoluene	7.000	126	1218	0.2564099 ppb		85
76) 4-Chlorotoluene	7.125	91	4108	0.2578835 ppb	#	89
77) 1,3,5-Trimethylbenzene	7.016	105	4599	0.2617031 ppb		99
78) tert-Butylbenzene	7.264	119	3587	0.2555118 ppb	#	83
79) 1,2,4-Trimethylbenzene	7.315	105	5119	0.2886990 ppb		99
80) sec-Butylbenzene	7.399	105	6034	0.2560638 ppb		97
81) 1,3-DICHLOROBENZENE	7.579	146	2593	0.2570805 ppb		94
82) p-Isopropyltoluene	7.505	119	4618	0.2390661 ppb		95
83) DICYCLOPENTADIENE	7.498	66	6295	0.2474789 ppb	#	73
85) 1,4-DICHLOROBENZENE	7.640	146	3144	0.3140577 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	7.656	105	4856	0.2683648 ppb		97
87) 1,2-DICHLOROBENZENE	7.974	146	2479	0.2680042 ppb		94
88) n-Butylbenzene	7.839	91	4509	0.2488115 ppb		94
90) 1,2,4-Trichlorobenzene	9.173	180	1550	0.2731940 ppb	#	84
91) HEXACHLORO-1,3-BUTADIENE	9.154	225	842	0.2800686 ppb	#	85
92) Naphthalene	9.437	128	4270	0.2910316 ppb	#	71
93) 1,2,3-Trichlorobenzene	9.595	180	1571	0.2976812 ppb		91
94) 1-Methylnaphthalene	10.321	142	2329	0.3256073 ppb		92
95) 2-Methylnaphthalene	10.444	142	1923	0.3287868 ppb		91

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

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 04A.D
Acq On : 15 Sep 2015 11:55 am
Operator : 621
Sample : STD VMS 0.25 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 4 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:28:36 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 05A.D
Acq On : 15 Sep 2015 12:13 pm
Operator : 621
Sample : STD VMS 0.5 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:28:56 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	3.771	168	382717	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.087	114	670478	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.231	79	117154	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	294199	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-3.78
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.10
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.24
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-7.64
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.530	111	235397	40.6712273	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 101.68%				
46) a,a,a-Trifluorotoluene	4.456	146	359515	41.7472529	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.37%				
50) TOLUENE-D8	4.910	98	816306	41.9092322	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.77%				
68) 4-BROMOFLUOROBENZENE	6.781	95	299049	41.9288981	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.82%				
Target Compounds							Qvalue
3) PROPENE	1.347	41	1711	2.3600349	ppb		96
4) DICHLORODIFLUOROMETHANE	1.389	85	2458	0.5003356	ppb		90
5) CHLOROMETHANE	1.518	50	4720	0.6919018	ppb	#	91
6) VINYL CHLORIDE	1.585	62	2686	0.4781892	ppb	#	94
7) 1,3-BUTADIENE	1.595	39	1498	0.3733481	ppb		87
8) BROMOMETHANE	1.797	94	2310	0.5765207	ppb	#	91
9) CHLOROETHANE	1.881	64	1674	0.5836424	ppb	#	53
10) TRICHLOROFLUOROMETHANE	1.958	101	3556	0.5098687	ppb	#	86
11) DICHLOROFLUOROMETHANE	1.997	67	4952	0.5669119	ppb		99
12) ETHYL ETHER	2.132	59	1493	0.4438731	ppb	#	66
13) ACROLEIN	2.444	56	1357	2.4555870	ppb	#	29
14) 1,1-DICHLOROETHENE	2.257	61	3775	0.5676638	ppb	#	92
15) 1,1,2-TRICHLOROTRIFLUO...	2.289	101	2117	0.5086960	ppb	#	93
16) ACETONE	2.591	43	7205	3.3247778	ppb		93
17) IODOMETHANE	2.341	142	30157	3.6470515	ppb		100
18) CARBON DISULFIDE	2.286	76	10363	0.6870661	ppb	#	78
19) METHYLENE CHLORIDE	2.575	84	3390	0.6556478	ppb		95
20) ACRYLONITRILE	3.016	53	4227	2.2563933	ppb	#	90
21) n-Hexane	2.714	56	2413	0.5232182	ppb	#	92
22) TRANS-1,2-DICHLOROETHENE	2.675	96	2576	0.5323926	ppb		95
23) METHYL TERT-BUTYL ETHER	2.720	73	6554	0.5098894	ppb		92
24) 1,1-DICHLOROETHANE	3.003	63	4883	0.5063234	ppb		96
25) VINYL ACETATE	3.119	43	27955	2.3917494	ppb		99
26) DI-ISOPROPYL ETHER	2.919	45	9036	0.4876957	ppb		98
27) 2,2-Dichloropropane	3.353	77	2973	0.4940839	ppb		95
28) CIS-1,2-DICHLOROETHENE	3.292	96	2799	0.5096059	ppb		98
29) 2-BUTANONE (MEK)	3.591	43	8770	2.5181779	ppb		94
30) BROMOCHLOROMETHANE	3.402	130	1763	0.5379790	ppb		99
31) TETRAHYDROFURAN	3.530	42	877	0.5212845	ppb	#	33
32) CHLOROFORM	3.431	83	4702	0.5072685	ppb	#	92
34) 1,1,1-TRICHLOROETHANE	3.563	97	3535	0.5127698	ppb		98
35) CARBON TETRACHLORIDE	3.530	117	3644	0.4893812	ppb		93
36) 1,1-Dichloropropene	3.627	75	3556	0.5276987	ppb		95

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 05A.D
Acq On : 15 Sep 2015 12:13 pm
Operator : 621
Sample : STD VMS 0.5 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:28:56 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	3.685	57	11033	0.5328567 ppb		98
38) HEPTANE	3.730	43	4247	0.4272917 ppb	#	88
39) BENZENE	3.765	78	11376	0.5725397 ppb	#	45
40) 1,2-DICHLOROETHANE	3.865	62	3195	0.4932094 ppb	#	76
42) TRICHLOROETHENE	4.087	130	2713	0.5344445 ppb		92
43) 1,2-DICHLOROPROPANE	4.382	62	2050	0.4816393 ppb		89
44) DIBROMOMETHANE	4.331	93	1798	0.5168729 ppb		98
45) BROMODICHLOROMETHANE	4.411	83	3433	0.4801295 ppb	#	88
47) 2-CHLOROETHYL VINYL ETHER	4.736	63	7077	2.3556245 ppb		94
48) CIS-1,3-DICHLOROPROPENE	4.791	75	4410	0.5004813 ppb	#	92
49) 4-METHYL-2-PENTANONE (...	5.157	43	13434	2.1172156 ppb		97
51) TOLUENE	4.945	91	11784	0.5668122 ppb		98
52) TRANS-1,3-DICHLOROPROPENE	5.189	75	3664	0.4459183 ppb	#	67
54) 1,1,2-TRICHLOROETHANE	5.296	97	2289	0.5037339 ppb		90
55) TETRACHLOROETHENE	5.196	164	1922	0.4989713 ppb		92
56) 1,3-Dichloropropane	5.482	76	4446	0.5700638 ppb		98
57) 2-HEXANONE	5.701	58	5048	1.9703602 ppb		96
58) CHLORODIBROMOMETHANE	5.418	129	2580	0.4783929 ppb		98
59) 1,2-DIBROMOETHANE	5.588	107	2649	0.5377321 ppb		87
60) CHLOROBENZENE	5.939	112	6892	0.5131807 ppb		95
61) 1,1,1,2-TETRACHLOROETHANE	5.974	133	2136	0.4563908 ppb	#	89
62) ETHYLBENZENE	5.945	106	3595	0.5087325 ppb		98
63) M&P-XYLENE	6.045	106	8713	0.9848241 ppb		94
64) O-XYLENE	6.350	106	4014	0.4730896 ppb		80
65) STYRENE	6.386	104	7188	0.4996898 ppb		99
66) Bromoform	6.411	173	1548	0.4491324 ppb		95
67) Isopropylbenzene	6.572	105	11212	0.5049394 ppb		97
69) Bromobenzene	6.868	77	5732	0.5583999 ppb		93
70) 1,1,2,2-TETRACHLOROETHANE	6.913	83	3632	0.5377856 ppb	#	96
71) 1,2,3-TRICHLOROPROPANE	7.022	110	686	0.4486333 ppb	#	17
72) TRANS-1,4-DICHLORO-2-B...	7.051	53	1084	0.6303932 ppb	#	25
73) n-Propylbenzene	6.877	91	14385	0.5293229 ppb		99
74) 4-ETHYLTOLUENE	6.955	105	11722	0.5309040 ppb		100
75) 2-Chlorotoluene	7.000	126	2923	0.6166339 ppb	#	69
76) 4-Chlorotoluene	7.125	91	8736	0.5495620 ppb		97
77) 1,3,5-Trimethylbenzene	7.019	105	8851	0.5047179 ppb		100
78) tert-Butylbenzene	7.263	119	6872	0.4905392 ppb		99
79) 1,2,4-Trimethylbenzene	7.315	105	9242	0.5223204 ppb		100
80) sec-Butylbenzene	7.402	105	11394	0.4845405 ppb		99
81) 1,3-DICHLOROBENZENE	7.575	146	5262	0.5227914 ppb		96
82) p-Isopropyltoluene	7.508	119	9777	0.5072017 ppb		96
83) DICYCLOPENTADIENE	7.498	66	13238	0.5215258 ppb		97
85) 1,4-DICHLOROBENZENE	7.643	146	5754	0.5770593 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	7.656	105	9571	0.5310409 ppb		95
87) 1,2-DICHLOROBENZENE	7.974	146	5155	0.5595223 ppb		98
88) n-Butylbenzene	7.839	91	9308	0.5156682 ppb		99
90) 1,2,4-Trichlorobenzene	9.173	180	3119	0.5519232 ppb		94
91) HEXACHLORO-1,3-BUTADIENE	9.147	225	1686	0.5630326 ppb		91
92) Naphthalene	9.440	128	7919	0.5418840 ppb		96
93) 1,2,3-Trichlorobenzene	9.598	180	2926	0.5566385 ppb		93
94) 1-Methylnaphthalene	10.321	142	3858	0.5415151 ppb		97
95) 2-Methylnaphthalene	10.446	142	3277	0.5625165 ppb		95

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 05A.D
Acq On : 15 Sep 2015 12:13 pm
Operator : 621
Sample : STD VMS 0.5 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS25

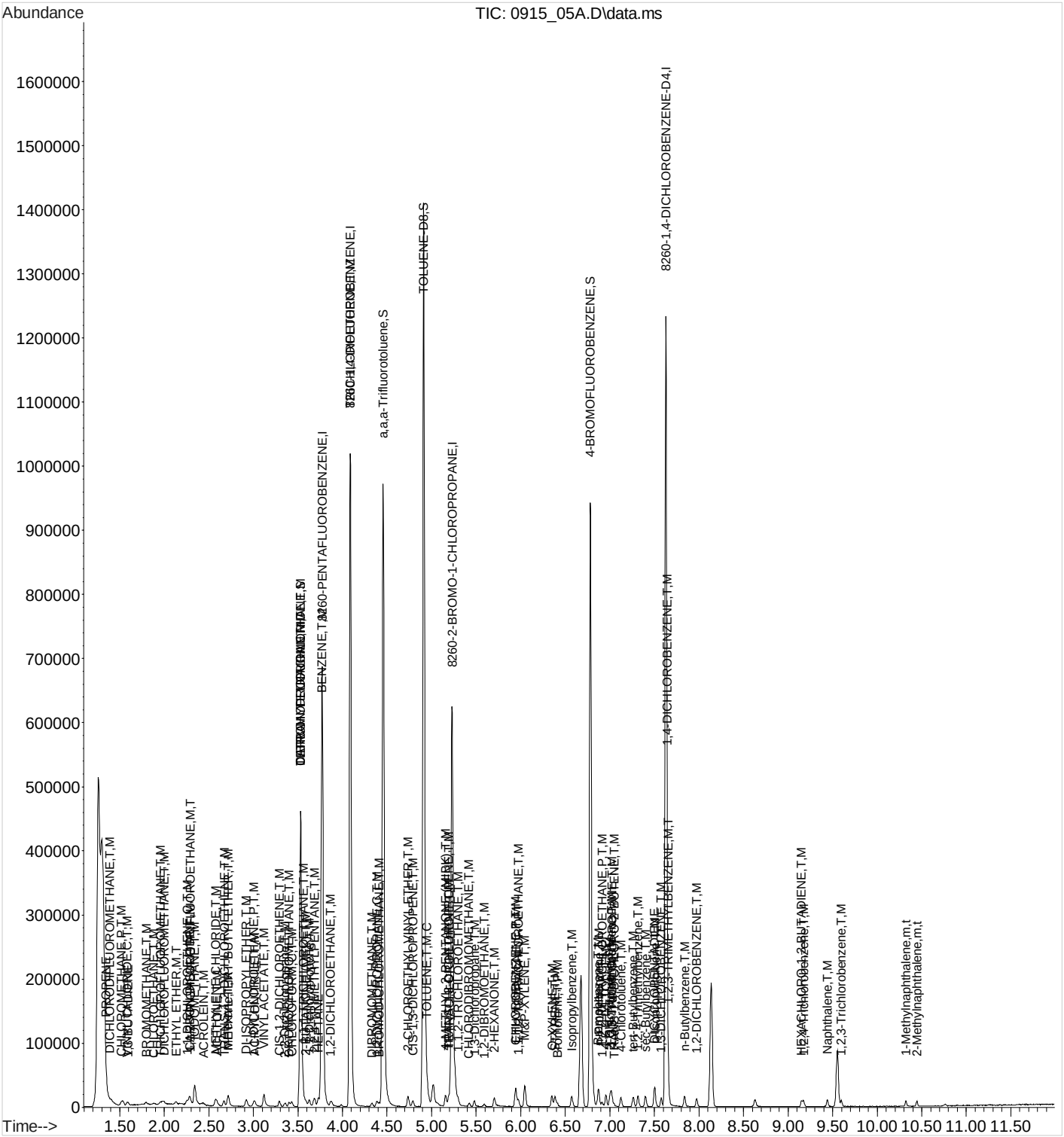
Quant Time: Sep 16 14:28:56 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 05A.D
Acq On : 15 Sep 2015 12:13 pm
Operator : 621
Sample : STD VMS 0.5 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 5 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:28:56 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 06A.D
Acq On : 15 Sep 2015 12:32 pm
Operator : 621
Sample : STD VMS 1 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:29:23 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	3.772	168	381863	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.090	114	683224	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.231	79	114324	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	286858	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-3.78
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.10
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.24
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-7.64
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.534	111	243676	42.1958058	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 105.49%				
46) a,a,a-Trifluorotoluene	4.457	146	364511	41.5377478	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.84%				
50) TOLUENE-D8	4.910	98	840767	42.3597893	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.90%				
68) 4-BROMOFLUOROBENZENE	6.781	95	298160	42.8390848	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 107.10%				
Target Compounds							Qvalue
3) PROPENE	1.347	41	1843	2.5477918	ppb	#	81
4) DICHLORODIFLUOROMETHANE	1.396	85	5031	1.0263703	ppb		96
5) CHLOROMETHANE	1.518	50	8286	1.2173559	ppb		97
6) VINYL CHLORIDE	1.589	62	5400	0.9635133	ppb	#	91
7) 1,3-BUTADIENE	1.595	39	2918	0.7288826	ppb		85
8) BROMOMETHANE	1.801	94	5439	1.3604801	ppb	#	81
9) CHLOROETHANE	1.881	64	3072	1.0734523	ppb		93
10) TRICHLOROFLUOROMETHANE	1.971	101	7394	1.0625423	ppb	#	94
11) DICHLOROFLUOROMETHANE	1.997	67	9413	1.0800233	ppb		98
12) ETHYL ETHER	2.135	59	3529	1.0515281	ppb	#	85
13) ACROLEIN	2.434	56	3037	5.5079558	ppb	#	60
14) 1,1-DICHLOROETHENE	2.261	61	6589	0.9930335	ppb		99
15) 1,1,2-TRICHLOROTRIFLUO...	2.296	101	3847	0.9264668	ppb		92
16) ACETONE	2.595	43	12032	5.5646344	ppb		97
17) IODOMETHANE	2.344	142	48777	5.9120625	ppb		99
18) CARBON DISULFIDE	2.286	76	17512	1.1636408	ppb		99
19) METHYLENE CHLORIDE	2.579	84	6015	1.1659414	ppb		98
20) ACRYLONITRILE	3.016	53	8623	4.6132937	ppb		95
21) n-Hexane	2.717	56	4398	0.9557646	ppb		98
22) TRANS-1,2-DICHLOROETHENE	2.675	96	5105	1.0574310	ppb		95
23) METHYL TERT-BUTYL ETHER	2.727	73	12093	0.9429177	ppb		92
24) 1,1-DICHLOROETHANE	3.003	63	10452	1.0862026	ppb		98
25) VINYL ACETATE	3.119	43	51278	4.3970097	ppb		100
26) DI-ISOPROPYL ETHER	2.923	45	18758	1.0146808	ppb		97
27) 2,2-Dichloropropane	3.357	77	6263	1.0431778	ppb		99
28) CIS-1,2-DICHLOROETHENE	3.293	96	5588	1.0196664	ppb		96
29) 2-BUTANONE (MEK)	3.588	43	15326	4.4104796	ppb		100
30) BROMOCHLOROMETHANE	3.402	130	3217	0.9838621	ppb		83
31) TETRAHYDROFURAN	3.531	42	1555	0.9263514	ppb	#	73
32) CHLOROFORM	3.431	83	9592	1.0371333	ppb		99
34) 1,1,1-TRICHLOROETHANE	3.563	97	7214	1.0487678	ppb		97
35) CARBON TETRACHLORIDE	3.531	117	7926	1.0668250	ppb		95
36) 1,1-Dichloropropene	3.630	75	6665	0.9912760	ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 06A.D
Acq On : 15 Sep 2015 12:32 pm
Operator : 621
Sample : STD VMS 1 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:29:23 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	3.688	57	22008	1.0652893 ppb		97
38) HEPTANE	3.733	43	11138	1.1231029 ppb		95
39) BENZENE	3.765	78	22213	1.1204524 ppb	#	74
40) 1,2-DICHLOROETHANE	3.871	62	6705	1.0373599 ppb	#	76
42) TRICHLOROETHENE	4.087	130	5335	1.0313562 ppb		99
43) 1,2-DICHLOROPROPANE	4.386	62	4163	0.9598334 ppb		94
44) DIBROMOMETHANE	4.331	93	3296	0.9298282 ppb		95
45) BROMODICHLOROMETHANE	4.415	83	7263	0.9968321 ppb		98
47) 2-CHLOROETHYL VINYL ETHER	4.736	63	13983	4.5675010 ppb		98
48) CIS-1,3-DICHLOROPROPENE	4.791	75	9127	1.0164798 ppb	#	98
49) 4-METHYL-2-PENTANONE (...	5.154	43	25994	4.0202613 ppb		96
51) TOLUENE	4.945	91	23821	1.1244181 ppb		95
52) TRANS-1,3-DICHLOROPROPENE	5.190	75	7503	0.8960994 ppb	#	67
54) 1,1,2-TRICHLOROETHANE	5.296	97	4438	1.0008349 ppb		97
55) TETRACHLOROETHENE	5.199	164	4036	1.0737250 ppb		93
56) 1,3-Dichloropropane	5.479	76	7945	1.0439209 ppb		99
57) 2-HEXANONE	5.701	58	10059	4.0234704 ppb		84
58) CHLORODIBROMOMETHANE	5.421	129	4864	0.9242262 ppb		96
59) 1,2-DIBROMOETHANE	5.592	107	4680	0.9735305 ppb		98
60) CHLOROBENZENE	5.939	112	13434	1.0250619 ppb		97
61) 1,1,1,2-TETRACHLOROETHANE	5.974	133	4409	0.9653736 ppb	#	98
62) ETHYLBENZENE	5.948	106	6853	0.9937817 ppb		95
63) M&P-XYLENE	6.045	106	17726	2.0531535 ppb		100
64) O-XYLENE	6.350	106	8433	1.0185160 ppb		94
65) STYRENE	6.386	104	13015	0.9271635 ppb		94
66) Bromoform	6.411	173	3090	0.9187167 ppb		94
67) Isopropylbenzene	6.572	105	21385	0.9869273 ppb		99
69) Bromobenzene	6.868	77	10615	1.0596900 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	6.913	83	7227	1.0965819 ppb		90
71) 1,2,3-TRICHLOROPROPANE	7.019	110	1372	0.9194778 ppb		87
72) TRANS-1,4-DICHLORO-2-B...	7.048	53	1447	0.8623240 ppb	#	91
73) n-Propylbenzene	6.878	91	27602	1.0408092 ppb		100
74) 4-ETHYLTOLUENE	6.958	105	21936	1.0181024 ppb		98
75) 2-Chlorotoluene	7.000	126	5465	1.1814312 ppb		83
76) 4-Chlorotoluene	7.122	91	16038	1.0338891 ppb		98
77) 1,3,5-Trimethylbenzene	7.016	105	17850	1.0430721 ppb		97
78) tert-Butylbenzene	7.260	119	14520	1.0621281 ppb		94
79) 1,2,4-Trimethylbenzene	7.315	105	17650	1.0221991 ppb		97
80) sec-Butylbenzene	7.402	105	22495	0.9803013 ppb		98
81) 1,3-DICHLOROBENZENE	7.579	146	10441	1.0630150 ppb		94
82) p-Isopropyltoluene	7.508	119	18739	0.9961878 ppb		99
83) DICYCLOPENTADIENE	7.501	66	24767	0.9998769 ppb		99
85) 1,4-DICHLOROBENZENE	7.643	146	10923	1.1234837 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	7.656	105	17539	0.9980440 ppb		97
87) 1,2-DICHLOROBENZENE	7.974	146	9520	1.0597414 ppb		98
88) n-Butylbenzene	7.839	91	17859	1.0147180 ppb		98
89) 1,2-Dibromo-3-chloropr...	8.614	157	908	0.8440504 ppb		94
90) 1,2,4-Trichlorobenzene	9.173	180	5783	1.0495199 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.151	225	3161	1.0826167 ppb		96
92) Naphthalene	9.440	128	13730	0.9635645 ppb		99
93) 1,2,3-Trichlorobenzene	9.595	180	5337	1.0412867 ppb		99
94) 1-Methylnaphthalene	10.321	142	6574	0.9463511 ppb		99
95) 2-Methylnaphthalene	10.447	142	5726	1.0080554 ppb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 06A.D
Acq On : 15 Sep 2015 12:32 pm
Operator : 621
Sample : STD VMS 1 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS25

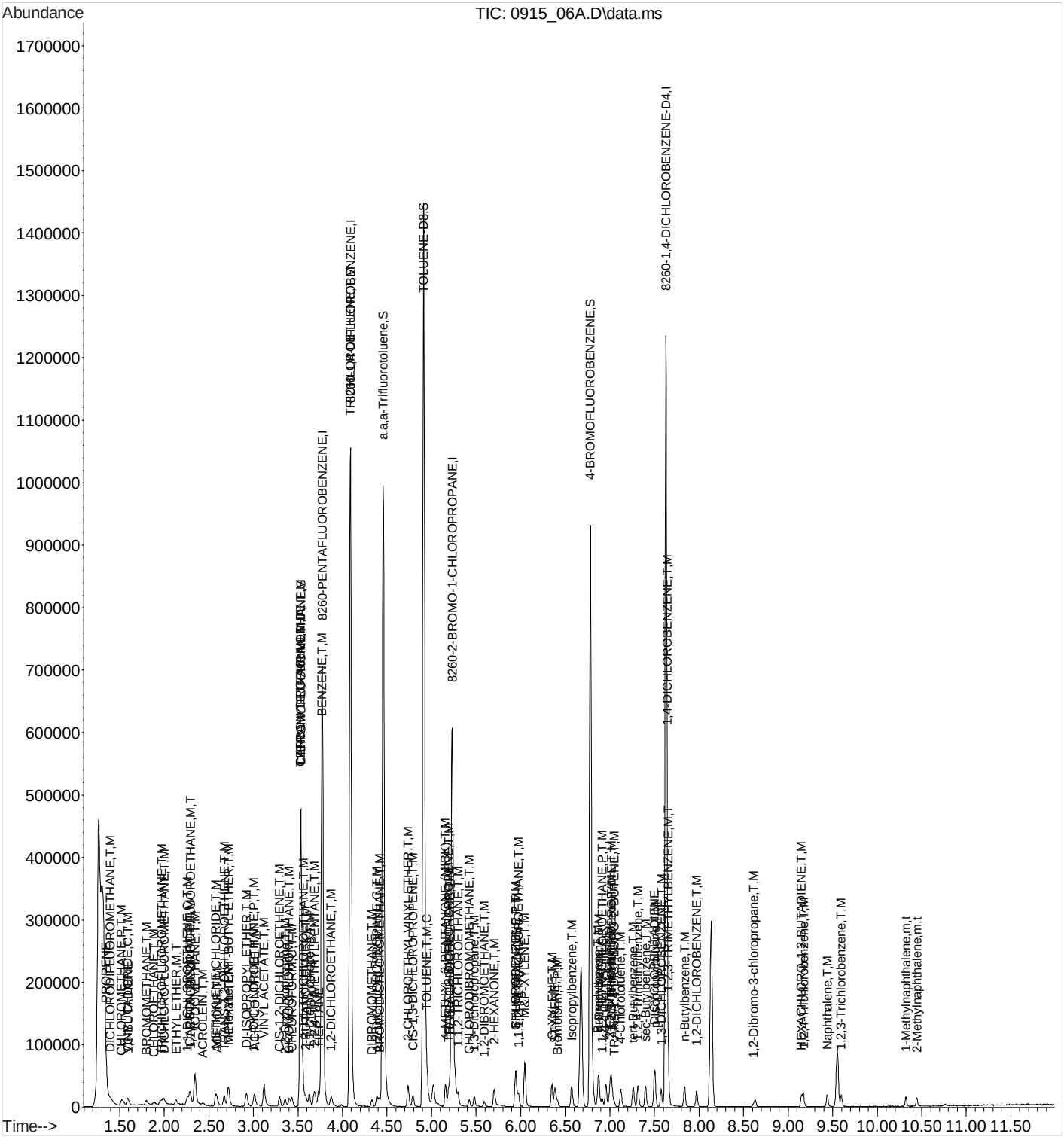
Quant Time: Sep 16 14:29:23 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 06A.D
Acq On : 15 Sep 2015 12:32 pm
Operator : 621
Sample : STD VMS 1 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 6 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:29:23 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 07A.D
Acq On : 15 Sep 2015 12:50 pm
Operator : 621
Sample : STD VMS 2 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:29:48 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	3.772	168	377449	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.090	114	653926	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.231	79	114537	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	294609	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-3.78
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.10
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.24
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-7.64
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	3.530	111	246032	43.1020003	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 107.76%				
46) a,a,a-Trifluorotoluene	4.456	146	366538	43.6401084	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 109.10%				
50) TOLUENE-D8	4.910	98	830125	43.6974542	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 109.24%				
68) 4-BROMOFLUOROBENZENE	6.781	95	310045	44.4638581	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 111.16%				
Target Compounds							Qvalue
3) PROPENE	1.347	41	3023	4.2279130	ppb		97
4) DICHLORODIFLUOROMETHANE	1.389	85	10062	2.0767459	ppb		93
5) CHLOROMETHANE	1.518	50	15262	2.2684717	ppb		98
6) VINYL CHLORIDE	1.585	62	11215	2.0244755	ppb		99
7) 1,3-BUTADIENE	1.588	39	7858	1.9857914	ppb		93
8) BROMOMETHANE	1.794	94	8049	2.0368749	ppb		99
9) CHLOROETHANE	1.881	64	6637	2.3462953	ppb		97
10) TRICHLOROFLUOROMETHANE	1.964	101	14344	2.0853856	ppb	#	90
11) DICHLOROFLUOROMETHANE	1.990	67	17757	2.0612182	ppb		100
12) ETHYL ETHER	2.128	59	6855	2.0664551	ppb		94
13) ACROLEIN	2.431	56	5395	9.8988879	ppb		88
14) 1,1-DICHLOROETHENE	2.257	61	13467	2.0533575	ppb		99
15) 1,1,2-TRICHLOROTRIFLUO...	2.292	101	8154	1.9866789	ppb	#	94
16) ACETONE	2.591	43	22125	10.3521700	ppb		100
17) IODOMETHANE	2.341	142	89603	10.9874214	ppb		99
18) CARBON DISULFIDE	2.286	76	32139	2.1605527	ppb		97
19) METHYLENE CHLORIDE	2.575	84	10933	2.1440245	ppb		98
20) ACRYLONITRILE	3.016	53	17445	9.4421956	ppb		97
21) n-Hexane	2.717	56	9136	2.0086354	ppb		91
22) TRANS-1,2-DICHLOROETHENE	2.672	96	9976	2.0905571	ppb		99
23) METHYL TERT-BUTYL ETHER	2.720	73	24735	1.9511963	ppb		98
24) 1,1-DICHLOROETHANE	3.003	63	18864	1.9833280	ppb		99
25) VINYL ACETATE	3.116	43	105626	9.1631856	ppb		99
26) DI-ISOPROPYL ETHER	2.919	45	36083	1.9746714	ppb		99
27) 2,2-Dichloropropane	3.357	77	11956	2.0147035	ppb		100
28) CIS-1,2-DICHLOROETHENE	3.292	96	10792	1.9922918	ppb		98
29) 2-BUTANONE (MEK)	3.588	43	33070	9.6280978	ppb		97
30) BROMOCHLOROMETHANE	3.402	130	6634	2.0526171	ppb		100
31) TETRAHYDROFURAN	3.527	42	3583	2.1594417	ppb		94
32) CHLOROFORM	3.431	83	18904	2.0678948	ppb		95
34) 1,1,1-TRICHLOROETHANE	3.563	97	13904	2.0449952	ppb		98
35) CARBON TETRACHLORIDE	3.530	117	14822	2.0183441	ppb		99
36) 1,1-Dichloropropene	3.627	75	13907	2.0925566	ppb		99

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 07A.D
Acq On : 15 Sep 2015 12:50 pm
Operator : 621
Sample : STD VMS 2 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:29:48 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	3.685	57	41981	2.0558388 ppb		98
38) HEPTANE	3.730	43	20322	2.0731374 ppb		96
39) BENZENE	3.765	78	41788	2.1324903 ppb	#	83
40) 1,2-DICHLOROETHANE	3.868	62	13600	2.1287216 ppb		99
42) TRICHLOROETHENE	4.087	130	10193	2.0587840 ppb		97
43) 1,2-DICHLOROPROPANE	4.386	62	8375	2.0174779 ppb		92
44) DIBROMOMETHANE	4.331	93	7308	2.1540141 ppb		94
45) BROMODICHLOROMETHANE	4.415	83	14687	2.1060737 ppb		96
47) 2-CHLOROETHYL VINYL ETHER	4.733	63	29032	9.9080857 ppb		98
48) CIS-1,3-DICHLOROPROPENE	4.791	75	17120	1.9920901 ppb	#	98
49) 4-METHYL-2-PENTANONE (...	5.154	43	56259	9.0909167 ppb		94
51) TOLUENE	4.945	91	43661	2.1532578 ppb		98
52) TRANS-1,3-DICHLOROPROPENE	5.189	75	14474	1.8061104 ppb	#	69
54) 1,1,2-TRICHLOROETHANE	5.296	97	8928	2.0096523 ppb		95
55) TETRACHLOROETHENE	5.199	164	8011	2.1272583 ppb		98
56) 1,3-Dichloropropane	5.479	76	15605	2.0465816 ppb		96
57) 2-HEXANONE	5.701	58	20895	8.3421882 ppb		93
58) CHLORODIBROMOMETHANE	5.421	129	10357	1.9643113 ppb		96
59) 1,2-DIBROMOETHANE	5.588	107	10119	2.1010331 ppb		93
60) CHLOROBENZENE	5.939	112	26622	2.0275755 ppb		98
61) 1,1,1,2-TETRACHLOROETHANE	5.974	133	9630	2.1046176 ppb	#	94
62) ETHYLBENZENE	5.948	106	14043	2.0326462 ppb		100
63) M&P-XYLENE	6.045	106	34925	4.0377433 ppb		100
64) O-XYLENE	6.350	106	16951	2.0434908 ppb		96
65) STYRENE	6.386	104	26722	1.9000837 ppb		99
66) Bromoform	6.411	173	6140	1.8221457 ppb		93
67) Isopropylbenzene	6.572	105	42963	1.9790743 ppb		98
69) Bromobenzene	6.868	77	20362	2.0289478 ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	6.916	83	13451	2.0371791 ppb		97
71) 1,2,3-TRICHLOROPROPANE	7.025	110	2573	1.7211492 ppb		95
72) TRANS-1,4-DICHLORO-2-B...	7.045	53	3068	1.8249414 ppb	#	92
73) n-Propylbenzene	6.874	91	53235	2.0036388 ppb		100
74) 4-ETHYLTOLUENE	6.955	105	43274	2.0047152 ppb		96
75) 2-Chlorotoluene	7.000	126	10439	2.2525206 ppb	#	83
76) 4-Chlorotoluene	7.122	91	31630	2.0352350 ppb		98
77) 1,3,5-Trimethylbenzene	7.016	105	34576	2.0167053 ppb		98
78) tert-Butylbenzene	7.263	119	28732	2.0978178 ppb		99
79) 1,2,4-Trimethylbenzene	7.315	105	36190	2.0920447 ppb		95
80) sec-Butylbenzene	7.398	105	47230	2.0543911 ppb		98
81) 1,3-DICHLOROBENZENE	7.575	146	20570	2.0903701 ppb		99
82) p-Isopropyltoluene	7.504	119	35889	1.9043544 ppb		98
83) DICYCLOPENTADIENE	7.498	66	48671	1.9612592 ppb		100
85) 1,4-DICHLOROBENZENE	7.643	146	20707	2.0737814 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	7.656	105	36293	2.0108918 ppb		98
87) 1,2-DICHLOROBENZENE	7.974	146	18658	2.0223160 ppb		99
88) n-Butylbenzene	7.839	91	36161	2.0005509 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.607	157	2118	1.9170323 ppb		97
90) 1,2,4-Trichlorobenzene	9.173	180	11170	1.9738384 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.151	225	6304	2.1022647 ppb		96
92) Naphthalene	9.440	128	28638	1.9569237 ppb		99
93) 1,2,3-Trichlorobenzene	9.598	180	10500	1.9947266 ppb		96
94) 1-Methylnaphthalene	10.321	142	13436	1.8832741 ppb		100
95) 2-Methylnaphthalene	10.443	142	11368	1.9486690 ppb		95

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 07A.D
Acq On : 15 Sep 2015 12:50 pm
Operator : 621
Sample : STD VMS 2 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS25

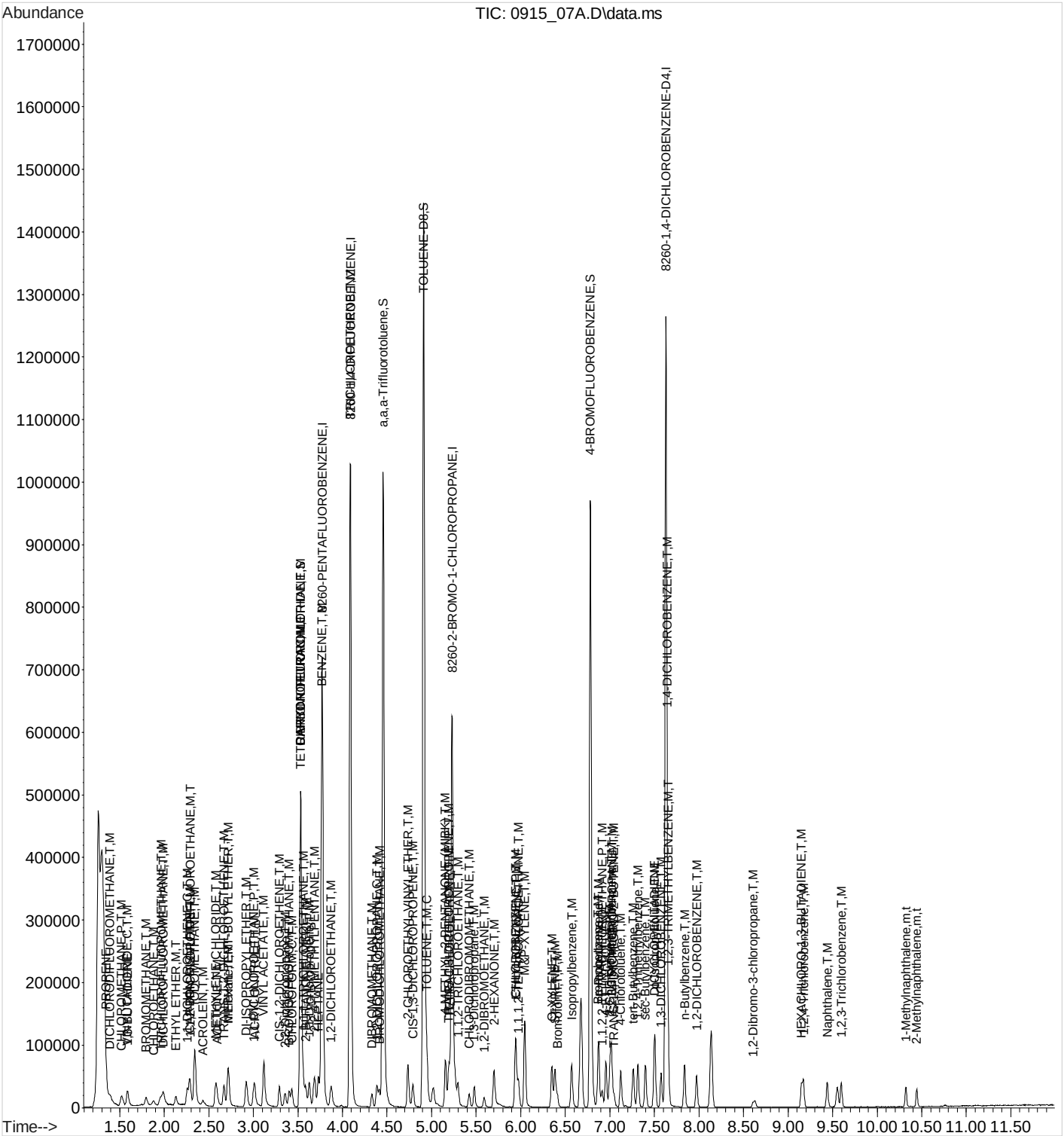
Quant Time: Sep 16 14:29:48 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 07A.D
Acq On : 15 Sep 2015 12:50 pm
Operator : 621
Sample : STD VMS 2 ppb 15I04618
Misc : water IS/SUR15A20860
ALS Vial : 7 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:29:48 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 08A.D
Acq On : 15 Sep 2015 1:08 pm
Operator : 621
Sample : STD VMS 5.0 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:32:30 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	3.772	168	379426	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.090	114	664508	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.231	79	110178	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	291819	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-3.78
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.10
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.24
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-7.64
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.530	111	247067	43.0577927	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 107.64%			
46) a,a,a-Trifluorotoluene	4.456	146	369970	43.3472665	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 108.37%			
50) TOLUENE-D8	4.910	98	820704	42.5135708	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 106.28%			
68) 4-BROMOFLUOROBENZENE	6.781	95	302404	45.0838361	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 112.71%			
Target Compounds						Qvalue
3) PROPENE	1.351	41	4892	6.8062131	ppb	95
4) DICHLORODIFLUOROMETHANE	1.386	85	24946	5.1219007	ppb	98
5) CHLOROMETHANE	1.518	50	35096	5.1893234	ppb	97
6) VINYL CHLORIDE	1.585	62	27713	4.9765456	ppb	98
7) 1,3-BUTADIENE	1.592	39	17829	4.4820817	ppb	96
8) BROMOMETHANE	1.797	94	21807	5.4897118	ppb	92
9) CHLOROETHANE	1.881	64	14502	5.0999974	ppb	99
10) TRICHLOROFLUOROMETHANE	1.961	101	33994	4.9164267	ppb	96
11) DICHLOROFLUOROMETHANE	1.994	67	43807	5.0585853	ppb	100
12) ETHYL ETHER	2.132	59	16408	4.9204560	ppb	95
13) ACROLEIN	2.434	56	12761	23.2922185	ppb	97
14) 1,1-DICHLOROETHENE	2.257	61	32962	4.9996368	ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.293	101	20901	5.0658838	ppb	99
16) ACETONE	2.592	43	54940	25.5721924	ppb	97
17) IODOMETHANE	2.344	142	211692	25.8231292	ppb	100
18) CARBON DISULFIDE	2.286	76	74253	4.9656683	ppb	99
19) METHYLENE CHLORIDE	2.576	84	26532	5.1759679	ppb	100
20) ACRYLONITRILE	3.016	53	44400	23.9065101	ppb	99
21) n-Hexane	2.717	56	23165	5.0665056	ppb	87
22) TRANS-1,2-DICHLOROETHENE	2.672	96	25086	5.2295967	ppb	95
23) METHYL TERT-BUTYL ETHER	2.723	73	63490	4.9822506	ppb	99
24) 1,1-DICHLOROETHANE	3.003	63	48224	5.0437689	ppb	100
25) VINYL ACETATE	3.116	43	261952	22.6062519	ppb	100
26) DI-ISOPROPYL ETHER	2.920	45	90812	4.9438652	ppb	100
27) 2,2-Dichloropropane	3.357	77	28734	4.8167323	ppb	97
28) CIS-1,2-DICHLOROETHENE	3.293	96	27012	4.9606540	ppb	99
29) 2-BUTANONE (MEK)	3.588	43	81350	23.5610720	ppb	92
30) BROMOCHLOROMETHANE	3.402	130	15867	4.8838069	ppb	98
31) TETRAHYDROFURAN	3.530	42	8310	4.9822658	ppb	92
32) CHLOROFORM	3.431	83	45481	4.9492105	ppb	99
34) 1,1,1-TRICHLOROETHANE	3.563	97	33936	4.9652871	ppb	98
35) CARBON TETRACHLORIDE	3.530	117	36048	4.8831580	ppb	98
36) 1,1-Dichloropropene	3.627	75	33261	4.9786345	ppb	97

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 08A.D
Acq On : 15 Sep 2015 1:08 pm
Operator : 621
Sample : STD VMS 5.0 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:32:30 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	3.685	57	99788	4.8612258 ppb		99
38) HEPTANE	3.730	43	47471	4.8174944 ppb		99
39) BENZENE	3.765	78	102358	5.1962311 ppb		94
40) 1,2-DICHLOROETHANE	3.868	62	33524	5.2199576 ppb		99
42) TRICHLOROETHENE	4.087	130	25898	5.1475832 ppb		97
43) 1,2-DICHLOROPROPANE	4.386	62	21017	4.9822220 ppb		98
44) DIBROMOMETHANE	4.331	93	17228	4.9970450 ppb		100
45) BROMODICHLOROMETHANE	4.415	83	35743	5.0438234 ppb		98
47) 2-CHLOROETHYL VINYL ETHER	4.733	63	70139	23.5559573 ppb		99
48) CIS-1,3-DICHLOROPROPENE	4.791	75	42771	4.8975965 ppb		98
49) 4-METHYL-2-PENTANONE (...	5.154	43	144494	22.9770292 ppb		97
51) TOLUENE	4.945	91	103600	5.0279447 ppb		98
52) TRANS-1,3-DICHLOROPROPENE	5.190	75	37421	4.5951481 ppb		96
54) 1,1,2-TRICHLOROETHANE	5.296	97	22178	5.1896735 ppb		98
55) TETRACHLOROETHENE	5.199	164	18227	5.0315247 ppb		95
56) 1,3-Dichloropropane	5.479	76	39541	5.3909320 ppb		98
57) 2-HEXANONE	5.698	58	57269	23.7688476 ppb		98
58) CHLORODIBROMOMETHANE	5.421	129	25848	5.0962908 ppb		99
59) 1,2-DIBROMOETHANE	5.588	107	24237	5.2314862 ppb		95
60) CHLOROBENZENE	5.939	112	65655	5.1982251 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	5.974	133	23441	5.3256664 ppb	#	96
62) ETHYLBENZENE	5.945	106	33190	4.9941325 ppb		97
63) M&P-XYLENE	6.045	106	85220	10.2422350 ppb		99
64) O-XYLENE	6.350	106	41387	5.1867131 ppb		98
65) STYRENE	6.386	104	67374	4.9802027 ppb		99
66) Bromoform	6.411	173	16164	4.9867144 ppb		97
67) Isopropylbenzene	6.572	105	103504	4.9565051 ppb		99
69) Bromobenzene	6.868	77	51103	5.2935591 ppb		97
70) 1,1,2,2-TETRACHLOROETHANE	6.913	83	32318	5.0882686 ppb	#	97
71) 1,2,3-TRICHLOROPROPANE	7.022	110	7367	5.1229523 ppb		100
72) TRANS-1,4-DICHLORO-2-B...	7.048	53	7680	4.7490387 ppb	#	84
73) n-Propylbenzene	6.878	91	129993	5.0861956 ppb		100
74) 4-ETHYLTOLUENE	6.955	105	107142	5.1598408 ppb		99
75) 2-Chlorotoluene	7.000	126	26475	5.9387736 ppb		77
76) 4-Chlorotoluene	7.122	91	76162	5.0945359 ppb		99
77) 1,3,5-Trimethylbenzene	7.016	105	84903	5.1480369 ppb		98
78) tert-Butylbenzene	7.263	119	69598	5.2826225 ppb		98
79) 1,2,4-Trimethylbenzene	7.315	105	84786	5.0951555 ppb		100
80) sec-Butylbenzene	7.398	105	112864	5.1035403 ppb		100
81) 1,3-DICHLOROBENZENE	7.575	146	48996	5.1760735 ppb		98
82) p-Isopropyltoluene	7.508	119	89374	4.9300184 ppb		100
83) DICYCLOPENTADIENE	7.498	66	121619	5.0946820 ppb		99
85) 1,4-DICHLOROBENZENE	7.643	146	50558	5.1117324 ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	7.656	105	89708	5.0179861 ppb		99
87) 1,2-DICHLOROBENZENE	7.974	146	46403	5.0776461 ppb		97
88) n-Butylbenzene	7.839	91	88547	4.9455600 ppb		99
89) 1,2-Dibromo-3-chloropr...	8.607	157	4758	4.3477080 ppb		91
90) 1,2,4-Trichlorobenzene	9.173	180	28998	5.1731957 ppb		96
91) HEXACHLORO-1,3-BUTADIENE	9.151	225	15901	5.3533800 ppb		97
92) Naphthalene	9.440	128	65866	4.5438599 ppb		99
93) 1,2,3-Trichlorobenzene	9.598	180	26194	5.0237539 ppb		100
94) 1-Methylnaphthalene	10.321	142	32723	4.6305128 ppb		95
95) 2-Methylnaphthalene	10.443	142	28285	4.8948867 ppb		99

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 08A.D
Acq On : 15 Sep 2015 1:08 pm
Operator : 621
Sample : STD VMS 5.0 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS25

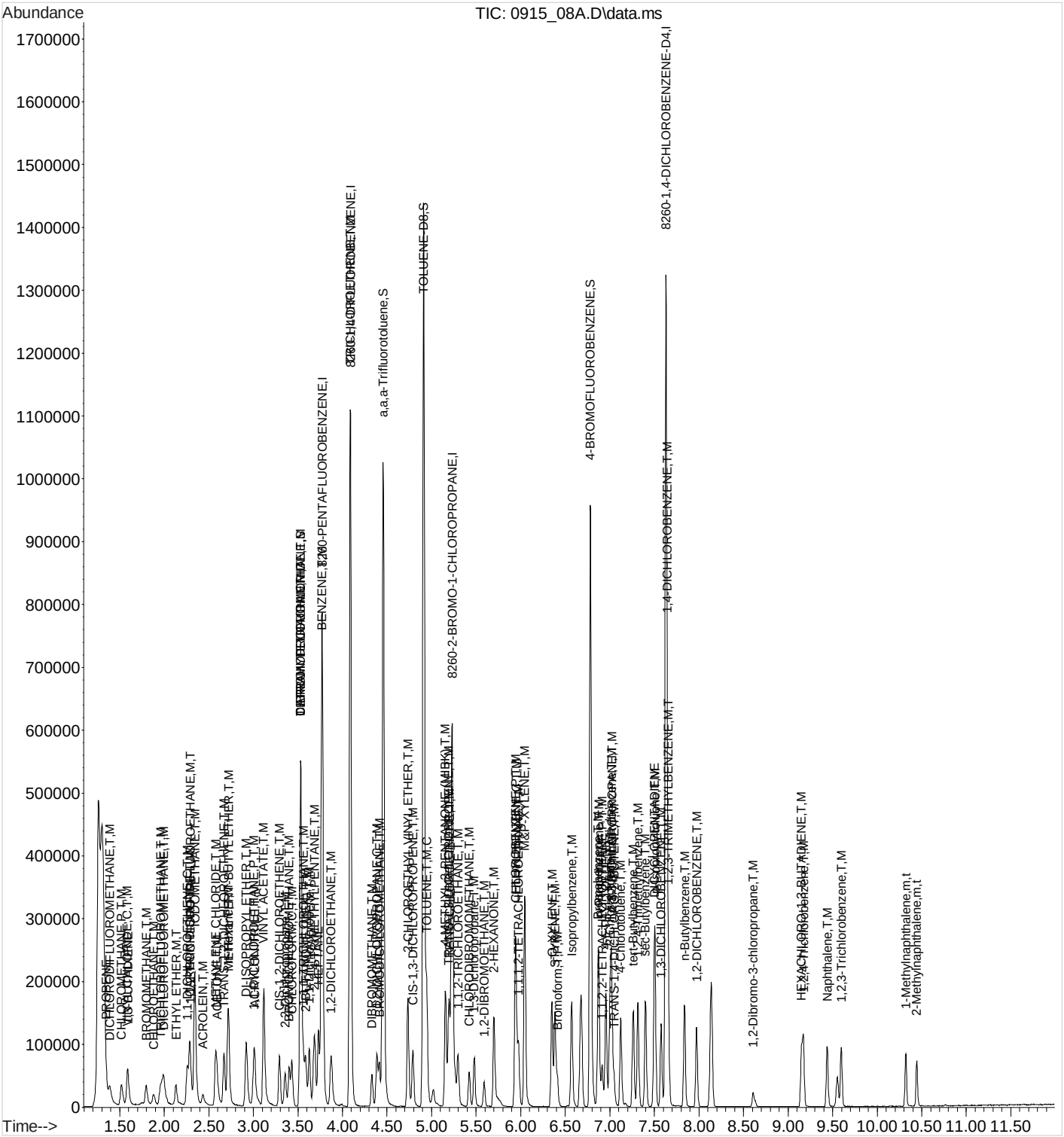
Quant Time: Sep 16 14:32:30 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 08A.D
Acq On : 15 Sep 2015 1:08 pm
Operator : 621
Sample : STD VMS 5.0 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 8 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:32:30 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 09A.D
Acq On : 15 Sep 2015 1:26 pm
Operator : 621
Sample : STD VMS 10 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:32:50 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	3.772	168	381851	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.090	114	648490	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.231	79	116127	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	296579	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-3.78
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.10
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.24
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-7.64
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.534	111	248853	43.0936278	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 107.73%			
46) a,a,a-Trifluorotoluene	4.457	146	384346	46.1439218	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 115.36%			
50) TOLUENE-D8	4.913	98	843501	44.7737599	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 111.93%			
68) 4-BROMOFLUOROBENZENE	6.784	95	315473	44.6228397	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 111.56%			
Target Compounds						Qvalue
3) PROPENE	1.351	41	7834	10.8301835	ppb	96
4) DICHLORODIFLUOROMETHANE	1.392	85	49239	10.0455244	ppb	96
5) CHLOROMETHANE	1.524	50	67718	9.9492511	ppb	99
6) VINYL CHLORIDE	1.592	62	56199	10.0278122	ppb	99
7) 1,3-BUTADIENE	1.595	39	37965	9.4835153	ppb	98
8) BROMOMETHANE	1.804	94	41082	10.2763374	ppb	95
9) CHLOROETHANE	1.884	64	29136	10.1813446	ppb	99
10) TRICHLOROFLUOROMETHANE	1.965	101	69685	10.0142805	ppb	99
11) DICHLOROFLUOROMETHANE	1.997	67	85141	9.7691655	ppb	98
12) ETHYL ETHER	2.132	59	32630	9.7229921	ppb	95
13) ACROLEIN	2.434	56	29251	53.0517873	ppb	87
14) 1,1-DICHLOROETHENE	2.257	61	64987	9.7945514	ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.296	101	39059	9.4068114	ppb	99
16) ACETONE	2.592	43	98992	45.7838766	ppb	97
17) IODOMETHANE	2.344	142	414040	50.1856873	ppb	100
18) CARBON DISULFIDE	2.286	76	145660	9.6791487	ppb	97
19) METHYLENE CHLORIDE	2.576	84	50628	9.8139879	ppb	99
20) ACRYLONITRILE	3.016	53	87669	46.9042742	ppb	96
21) n-Hexane	2.717	56	45342	9.8539431	ppb	98
22) TRANS-1,2-DICHLOROETHENE	2.672	96	48693	10.0864066	ppb	99
23) METHYL TERT-BUTYL ETHER	2.723	73	120921	9.4287718	ppb	97
24) 1,1-DICHLOROETHANE	3.003	63	95829	9.9591451	ppb	99
25) VINYL ACETATE	3.116	43	555745	47.6557778	ppb	100
26) DI-ISOPROPYL ETHER	2.920	45	181739	9.8311579	ppb	100
27) 2,2-Dichloropropane	3.357	77	56267	9.3722386	ppb	96
28) CIS-1,2-DICHLOROETHENE	3.293	96	54543	9.9530084	ppb	96
29) 2-BUTANONE (MEK)	3.588	43	163881	47.1627641	ppb	99
30) BROMOCHLOROMETHANE	3.402	130	31248	9.5569441	ppb	95
31) TETRAHYDROFURAN	3.531	42	16223	9.6647404	ppb	94
32) CHLOROFORM	3.434	83	89375	9.6639602	ppb	98
34) 1,1,1-TRICHLOROETHANE	3.563	97	69583	10.1162609	ppb	99
35) CARBON TETRACHLORIDE	3.534	117	73238	9.8580095	ppb	99
36) 1,1-Dichloropropene	3.630	75	66345	9.8677081	ppb	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 09A.D
Acq On : 15 Sep 2015 1:26 pm
Operator : 621
Sample : STD VMS 10 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:32:50 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	3.685	57	207432	10.0409865	ppb		99
38) HEPTANE	3.730	43	98848	9.9676753	ppb		98
39) BENZENE	3.765	78	202390	10.2091333	ppb		98
40) 1,2-DICHLOROETHANE	3.868	62	64263	9.9427220	ppb		99
42) TRICHLOROETHENE	4.090	130	50195	10.2233809	ppb		99
43) 1,2-DICHLOROPROPANE	4.386	62	42074	10.2202868	ppb		98
44) DIBROMOMETHANE	4.331	93	34531	10.2632399	ppb		99
45) BROMODICHLOROMETHANE	4.415	83	71601	10.3534452	ppb		99
47) 2-CHLOROETHYL VINYL ETHER	4.733	63	145092	49.9323018	ppb		100
48) CIS-1,3-DICHLOROPROPENE	4.791	75	88185	10.3472573	ppb		100
49) 4-METHYL-2-PENTANONE (...	5.154	43	296372	48.2923303	ppb		96
51) TOLUENE	4.945	91	206369	10.2629480	ppb		98
52) TRANS-1,3-DICHLOROPROPENE	5.190	75	77784	9.7874899	ppb		99
54) 1,1,2-TRICHLOROETHANE	5.296	97	44936	9.9763975	ppb		99
55) TETRACHLOROETHENE	5.199	164	37316	9.7732989	ppb		98
56) 1,3-Dichloropropane	5.479	76	78077	10.0995263	ppb		99
57) 2-HEXANONE	5.698	58	114773	45.1949530	ppb		100
58) CHLORODIBROMOMETHANE	5.421	129	51902	9.7089670	ppb		99
59) 1,2-DIBROMOETHANE	5.588	107	48269	9.8849893	ppb		98
60) CHLOROBENZENE	5.939	112	132399	9.9456611	ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	5.974	133	46049	9.9261242	ppb	#	98
62) ETHYLBENZENE	5.948	106	67916	9.6958655	ppb		96
63) M&P-XYLENE	6.045	106	171276	19.5304116	ppb		100
64) O-XYLENE	6.350	106	82167	9.7698386	ppb		98
65) STYRENE	6.382	104	136353	9.5627116	ppb		98
66) Bromoform	6.411	173	32294	9.4525542	ppb		98
67) Isopropylbenzene	6.572	105	215926	9.8103622	ppb		99
69) Bromobenzene	6.868	77	98353	9.6660861	ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	6.916	83	64658	9.6584958	ppb		97
71) 1,2,3-TRICHLOROPROPANE	7.022	110	15073	9.9446848	ppb		100
72) TRANS-1,4-DICHLORO-2-B...	7.048	53	16307	9.5670983	ppb	#	92
73) n-Propylbenzene	6.874	91	257752	9.5683447	ppb		100
74) 4-ETHYLTOLUENE	6.955	105	215992	9.8690624	ppb		99
75) 2-Chlorotoluene	7.000	126	51522	10.9651654	ppb		82
76) 4-Chlorotoluene	7.122	91	157023	9.9653198	ppb		98
77) 1,3,5-Trimethylbenzene	7.016	105	171922	9.8903520	ppb		99
78) tert-Butylbenzene	7.263	119	137969	9.9356438	ppb		100
79) 1,2,4-Trimethylbenzene	7.315	105	170643	9.7293417	ppb		99
80) sec-Butylbenzene	7.399	105	230678	9.8965532	ppb		100
81) 1,3-DICHLOROBENZENE	7.575	146	101085	10.1318372	ppb		96
82) p-Isopropyltoluene	7.505	119	184200	9.6402579	ppb		99
83) DICYCLOPENTADIENE	7.498	66	242697	9.6458774	ppb		99
85) 1,4-DICHLOROBENZENE	7.643	146	101678	10.1152912	ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	7.656	105	179309	9.8690088	ppb		99
87) 1,2-DICHLOROBENZENE	7.974	146	94067	10.1280731	ppb		99
88) n-Butylbenzene	7.836	91	183025	10.0583145	ppb		100
89) 1,2-Dibromo-3-chloropr...	8.604	157	10000	8.9910227	ppb		98
90) 1,2,4-Trichlorobenzene	9.173	180	56559	9.9280912	ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.151	225	29877	9.8972328	ppb		98
92) Naphthalene	9.437	128	136521	9.2669383	ppb		100
93) 1,2,3-Trichlorobenzene	9.598	180	52949	9.9921159	ppb		98
94) 1-Methylnaphthalene	10.321	142	70546	9.8224887	ppb		100
95) 2-Methylnaphthalene	10.443	142	56560	9.6309477	ppb		99

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 09A.D
Acq On : 15 Sep 2015 1:26 pm
Operator : 621
Sample : STD VMS 10 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS25

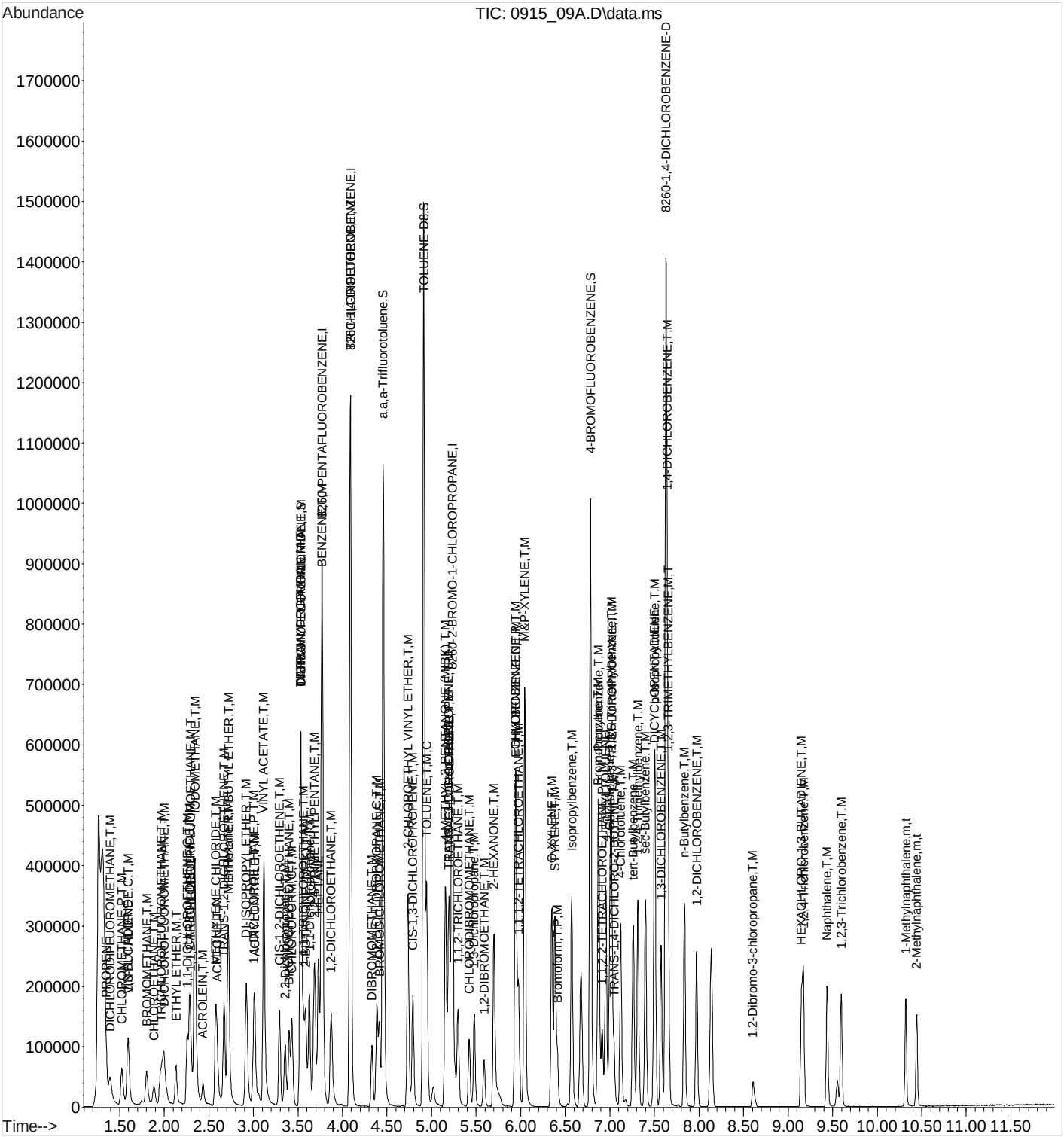
Quant Time: Sep 16 14:32:50 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 09A.D
Acq On : 15 Sep 2015 1:26 pm
Operator : 621
Sample : STD VMS 10 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 9 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:32:50 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 10A.D
Acq On : 15 Sep 2015 1:45 pm
Operator : 621
Sample : MSTD VMS 25 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:33:09 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	3.772	168	372566	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.090	114	661679	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.231	79	114009	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	293427	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-3.78
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.10
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.24
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-7.64
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.530	111	253543	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 112.50%			
46) a,a,a-Trifluorotoluene	4.456	146	382441	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 112.50%			
50) TOLUENE-D8	4.913	98	865005	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 112.50%			
68) 4-BROMOFLUOROBENZENE	6.781	95	312337	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 112.50%			
Target Compounds						Qvalue
3) PROPENE	1.350	41	17644	25.0000000	ppb	100
4) DICHLORODIFLUOROMETHANE	1.389	85	119560	25.0000000	ppb	100
5) CHLOROMETHANE	1.521	50	166021	25.0000000	ppb	100
6) VINYL CHLORIDE	1.588	62	136701	25.0000000	ppb	100
7) 1,3-BUTADIENE	1.592	39	97648	25.0000000	ppb	100
8) BROMOMETHANE	1.797	94	97513	25.0000000	ppb	100
9) CHLOROETHANE	1.878	64	69803	25.0000000	ppb	100
10) TRICHLOROFLUOROMETHANE	1.961	101	169734	25.0000000	ppb	100
11) DICHLOROFLUOROMETHANE	1.994	67	212584	25.0000000	ppb	100
12) ETHYL ETHER	2.132	59	81859	25.0000000	ppb	100
13) ACROLEIN	2.434	56	67245	125.0000000	ppb	100
14) 1,1-DICHLOROETHENE	2.257	61	161842	25.0000000	ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.293	101	101281	25.0000000	ppb	100
16) ACETONE	2.592	43	263698	125.0000000	ppb	100
17) IODOMETHANE	2.344	142	1006194	125.0000000	ppb	100
18) CARBON DISULFIDE	2.286	76	367073	25.0000000	ppb	100
19) METHYLENE CHLORIDE	2.575	84	125833	25.0000000	ppb	100
20) ACRYLONITRILE	3.016	53	227957	125.0000000	ppb	100
21) n-Hexane	2.717	56	112238	25.0000000	ppb	100
22) TRANS-1,2-DICHLOROETHENE	2.672	96	117755	25.0000000	ppb	100
23) METHYL TERT-BUTYL ETHER	2.723	73	312821	25.0000000	ppb	100
24) 1,1-DICHLOROETHANE	3.003	63	234706	25.0000000	ppb	100
25) VINYL ACETATE	3.116	43	1422261	125.0000000	ppb	100
26) DI-ISOPROPYL ETHER	2.923	45	450913	25.0000000	ppb	100
27) 2,2-Dichloropropane	3.357	77	146440	25.0000000	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.293	96	133670	25.0000000	ppb	100
29) 2-BUTANONE (MEK)	3.585	43	423788	125.0000000	ppb	100
30) BROMOCHLOROMETHANE	3.402	130	79754	25.0000000	ppb	100
31) TETRAHYDROFURAN	3.527	42	40944	25.0000000	ppb	100
32) CHLOROFORM	3.434	83	225585	25.0000000	ppb	100
34) 1,1,1-TRICHLOROETHANE	3.563	97	167777	25.0000000	ppb	100
35) CARBON TETRACHLORIDE	3.530	117	180943	24.9623378	ppb	100
36) 1,1-Dichloropropene	3.627	75	163999	25.0000000	ppb	100

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 10A.D
Acq On : 15 Sep 2015 1:45 pm
Operator : 621
Sample : MSTD VMS 25 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:33:09 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	3.685	57	503905	25.0000000	ppb	100
38) HEPTANE	3.730	43	241893	25.0000000	ppb	100
39) BENZENE	3.765	78	483450	24.9943647	ppb	100
40) 1,2-DICHLOROETHANE	3.868	62	157654	25.0000000	ppb	100
42) TRICHLOROETHENE	4.090	130	125208	24.9932131	ppb	100
43) 1,2-DICHLOROPROPANE	4.386	62	105011	25.0000000	ppb	100
44) DIBROMOMETHANE	4.331	93	85824	25.0000000	ppb	100
45) BROMODICHLOROMETHANE	4.415	83	176408	25.0000000	ppb	100
47) 2-CHLOROETHYL VINYL ETHER	4.733	63	370609	125.0000000	ppb	100
48) CIS-1,3-DICHLOROPROPENE	4.791	75	217397	25.0000000	ppb	100
49) 4-METHYL-2-PENTANONE (...	5.154	43	782092	124.8977939	ppb	100
51) TOLUENE	4.945	91	512928	25.0000000	ppb	100
52) TRANS-1,3-DICHLOROPROPENE	5.190	75	202452	24.9665800	ppb	100
54) 1,1,2-TRICHLOROETHANE	5.296	97	110552	25.0000000	ppb	100
55) TETRACHLOROETHENE	5.199	164	93713	25.0000000	ppb	100
56) 1,3-Dichloropropane	5.479	76	189744	25.0000000	ppb	100
57) 2-HEXANONE	5.698	58	311649	125.0000000	ppb	100
58) CHLORODIBROMOMETHANE	5.421	129	131207	25.0000000	ppb	100
59) 1,2-DIBROMOETHANE	5.588	107	119850	25.0000000	ppb	100
60) CHLOROBENZENE	5.939	112	326736	25.0000000	ppb	100
61) 1,1,1,2-TETRACHLOROETHANE	5.974	133	113864	25.0000000	ppb	100
62) ETHYLBENZENE	5.948	106	171922	25.0000000	ppb	100
63) M&P-XYLENE	6.045	106	430488	50.0000000	ppb	100
64) O-XYLENE	6.350	106	206311	24.9865567	ppb	100
65) STYRENE	6.382	104	351721	25.1251539	ppb	100
66) Bromoform	6.411	173	83853	25.0000000	ppb	100
67) Isopropylbenzene	6.572	105	540214	25.0000000	ppb	100
69) Bromobenzene	6.868	77	249737	25.0000000	ppb	100
70) 1,1,2,2-TETRACHLOROETHANE	6.916	83	164308	25.0000000	ppb	100
71) 1,2,3-TRICHLOROPROPANE	7.022	110	37201	25.0000000	ppb	100
72) TRANS-1,4-DICHLORO-2-B...	7.045	53	41835	25.0000000	ppb	100
73) n-Propylbenzene	6.878	91	661167	25.0000000	ppb	100
74) 4-ETHYLTOLUENE	6.955	105	537165	25.0000000	ppb	100
75) 2-Chlorotoluene	7.000	126	125896	27.2915673	ppb	81
76) 4-Chlorotoluene	7.122	91	386739	25.0000000	ppb	100
77) 1,3,5-Trimethylbenzene	7.019	105	426644	25.0000000	ppb	100
78) tert-Butylbenzene	7.263	119	340825	25.0000000	ppb	100
79) 1,2,4-Trimethylbenzene	7.315	105	430478	25.0000000	ppb	100
80) sec-Butylbenzene	7.398	105	572207	25.0048943	ppb	100
81) 1,3-DICHLOROBENZENE	7.575	146	244875	25.0000000	ppb	100
82) p-Isopropyltoluene	7.505	119	468972	25.0000000	ppb	100
83) DICYCLOPENTADIENE	7.498	66	617545	25.0000000	ppb	100
85) 1,4-DICHLOROBENZENE	7.643	146	248627	25.0000000	ppb	100
86) 1,2,3-TRIMETHYLBENZENE	7.656	105	449395	25.0000000	ppb	100
87) 1,2-DICHLOROBENZENE	7.974	146	229726	25.0000000	ppb	100
88) n-Butylbenzene	7.839	91	450075	25.0000000	ppb	100
89) 1,2-Dibromo-3-chloropr...	8.607	157	27510	25.0000000	ppb	100
90) 1,2,4-Trichlorobenzene	9.173	180	140908	25.0000000	ppb	100
91) HEXACHLORO-1,3-BUTADIENE	9.151	225	74666	25.0000000	ppb	100
92) Naphthalene	9.437	128	364387	25.0000000	ppb	100
93) 1,2,3-Trichlorobenzene	9.598	180	131069	25.0000000	ppb	100
94) 1-Methylnaphthalene	10.321	142	177644	25.0000000	ppb	100
95) 2-Methylnaphthalene	10.443	142	145258	25.0000000	ppb	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 10A.D
Acq On : 15 Sep 2015 1:45 pm
Operator : 621
Sample : MSTD VMS 25 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:33:09 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

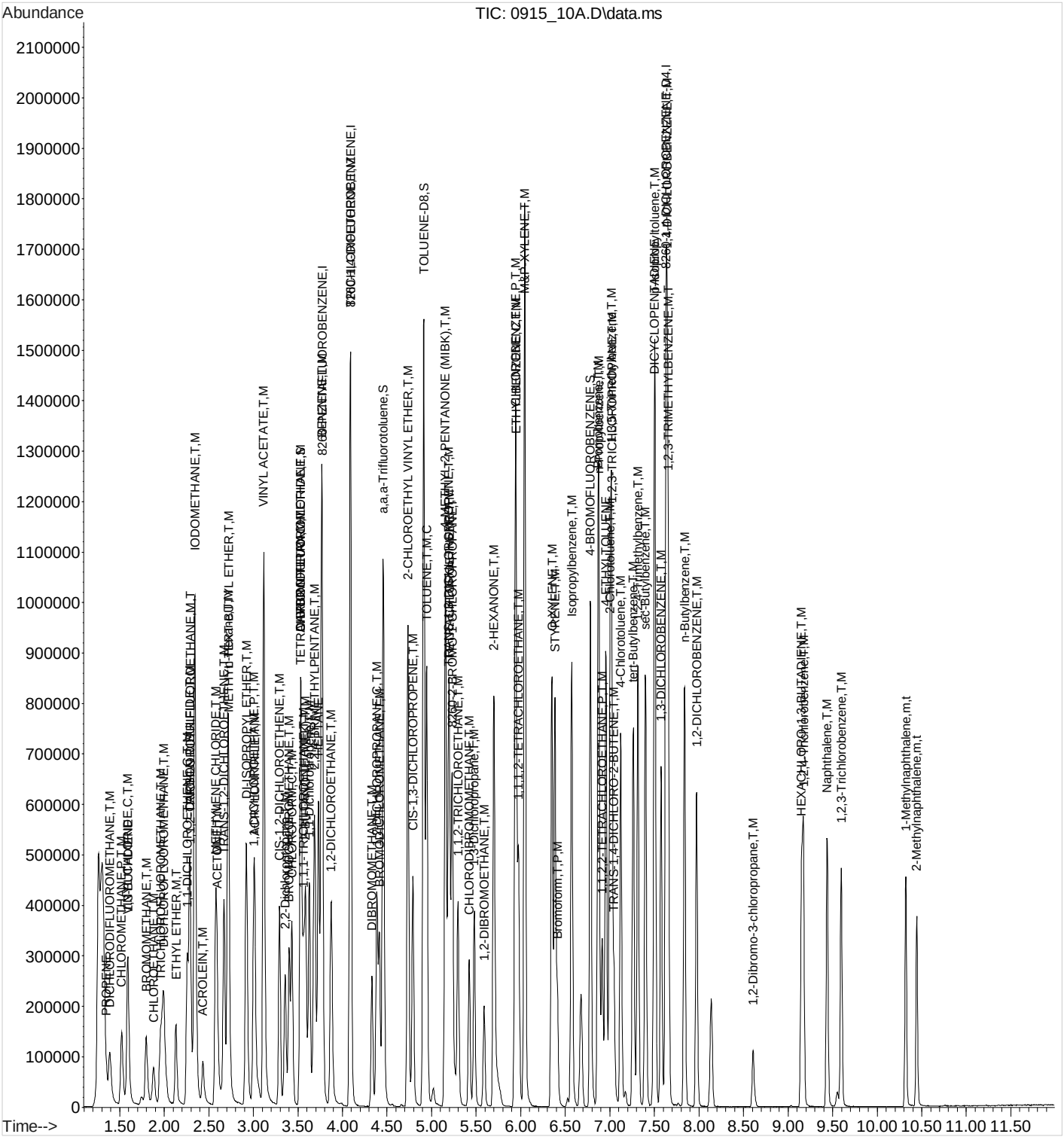
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 10A.D
Acq On : 15 Sep 2015 1:45 pm
Operator : 621
Sample : MSTD VMS 25 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 10 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:33:09 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 11A.D
Acq On : 15 Sep 2015 2:03 pm
Operator : 621
Sample : STD VMS 40 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:33:45 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	3.775	168	382768	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.090	114	660156	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.231	79	111134	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	295306	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-3.78
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.10
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.24
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-7.64
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.534	111	260048	44.9243708	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 112.31%			
46) a,a,a-Trifluorotoluene	4.457	146	381821	45.0306956	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 112.58%			
50) TOLUENE-D8	4.913	98	868898	45.3068084	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 113.27%			
68) 4-BROMOFLUOROBENZENE	6.781	95	321289	47.4872616	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 118.72%			
Target Compounds						Qvalue
3) PROPENE	1.354	41	30218	41.6750637	ppb	99
4) DICHLORODIFLUOROMETHANE	1.392	85	193095	39.3000160	ppb	98
5) CHLOROMETHANE	1.524	50	266868	39.1147970	ppb	98
6) VINYL CHLORIDE	1.592	62	226946	40.3978680	ppb	100
7) 1,3-BUTADIENE	1.592	39	156413	38.9777798	ppb	98
8) BROMOMETHANE	1.798	94	153417	38.2841116	ppb	98
9) CHLOROETHANE	1.881	64	113414	39.5366788	ppb	99
10) TRICHLOROFLUOROMETHANE	1.961	101	274501	39.3534389	ppb	100
11) DICHLOROFLUOROMETHANE	1.994	67	345642	39.5643049	ppb	99
12) ETHYL ETHER	2.132	59	126692	37.6608712	ppb	99
13) ACROLEIN	2.434	56	107241	194.0342813	ppb	96
14) 1,1-DICHLOROETHENE	2.257	61	254150	38.2125907	ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.289	101	157459	37.8309383	ppb	99
16) ACETONE	2.592	43	410521	189.4114163	ppb	95
17) IODOMETHANE	2.344	142	1634073	197.5910823	ppb	100
18) CARBON DISULFIDE	2.286	76	577069	38.2545333	ppb	99
19) METHYLENE CHLORIDE	2.579	84	201230	38.9139916	ppb	99
20) ACRYLONITRILE	3.016	53	361499	192.9442216	ppb	99
21) n-Hexane	2.717	56	173470	37.6090241	ppb	95
22) TRANS-1,2-DICHLOROETHENE	2.672	96	191783	39.6313034	ppb	97
23) METHYL TERT-BUTYL ETHER	2.724	73	494673	38.4795435	ppb	99
24) 1,1-DICHLOROETHANE	3.003	63	372414	38.6108544	ppb	99
25) VINYL ACETATE	3.119	43	2106021	180.1610919	ppb	100
26) DI-ISOPROPYL ETHER	2.923	45	722694	39.0004212	ppb	99
27) 2,2-Dichloropropane	3.357	77	221700	36.8394873	ppb	98
28) CIS-1,2-DICHLOROETHENE	3.296	96	208003	37.8654616	ppb	99
29) 2-BUTANONE (MEK)	3.585	43	653152	187.5181092	ppb	99
30) BROMOCHLOROMETHANE	3.402	130	127133	38.7894325	ppb	99
31) TETRAHYDROFURAN	3.527	42	65588	38.9799901	ppb	98
32) CHLOROFORM	3.434	83	355491	38.3465235	ppb	99
34) 1,1,1-TRICHLOROETHANE	3.563	97	276557	40.1106626	ppb	99
35) CARBON TETRACHLORIDE	3.534	117	289995	38.9405046	ppb	100
36) 1,1-Dichloropropene	3.630	75	261924	38.8634812	ppb	99

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 11A.D
Acq On : 15 Sep 2015 2:03 pm
Operator : 621
Sample : STD VMS 40 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:33:45 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	3.685	57	795888	38.4335848	ppb		100
38) HEPTANE	3.730	43	385569	38.7870199	ppb		99
39) BENZENE	3.765	78	777210	39.1107833	ppb		99
40) 1,2-DICHLOROETHANE	3.868	62	258565	39.9091380	ppb		99
42) TRICHLOROETHENE	4.090	130	196965	39.4075878	ppb		99
43) 1,2-DICHLOROPROPANE	4.386	62	166185	39.6549871	ppb		100
44) DIBROMOMETHANE	4.331	93	135359	39.5202034	ppb		99
45) BROMODICHLOROMETHANE	4.415	83	282521	40.1303774	ppb		99
47) 2-CHLOROETHYL VINYL ETHER	4.733	63	572821	193.6483314	ppb		100
48) CIS-1,3-DICHLOROPROPENE	4.791	75	352038	40.5767056	ppb		100
49) 4-METHYL-2-PENTANONE (...	5.154	43	1197275	191.6424060	ppb		100
51) TOLUENE	4.945	91	811305	39.6340571	ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.190	75	318829	39.4090148	ppb		99
54) 1,1,2-TRICHLOROETHANE	5.296	97	174902	40.5751721	ppb		99
55) TETRACHLOROETHENE	5.199	164	146877	40.1963067	ppb		98
56) 1,3-Dichloropropane	5.479	76	296393	40.0619505	ppb		100
57) 2-HEXANONE	5.698	58	493736	203.1567516	ppb		100
58) CHLORODIBROMOMETHANE	5.421	129	210679	41.1809576	ppb		100
59) 1,2-DIBROMOETHANE	5.588	107	185366	39.6665326	ppb		100
60) CHLOROBENZENE	5.939	112	524521	41.1716329	ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	5.974	133	180962	40.7599038	ppb	#	100
62) ETHYLBENZENE	5.948	106	274396	40.9334661	ppb		99
63) M&P-XYLENE	6.045	106	674385	80.3542861	ppb		100
64) O-XYLENE	6.350	106	327436	40.6820326	ppb		100
65) STYRENE	6.383	104	556277	40.7655894	ppb		100
66) Bromoform	6.411	173	134589	41.1645299	ppb		99
67) Isopropylbenzene	6.572	105	841259	39.9388989	ppb		100
69) Bromobenzene	6.868	77	404262	41.5156870	ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	6.916	83	253813	39.6175260	ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.022	110	58940	40.6338260	ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.048	53	66740	40.9146300	ppb		98
73) n-Propylbenzene	6.878	91	1062242	41.2044858	ppb		100
74) 4-ETHYLTOLUENE	6.955	105	866866	41.3881926	ppb		100
75) 2-Chlorotoluene	7.000	126	203638	45.2863750	ppb		80
76) 4-Chlorotoluene	7.122	91	601164	39.8664160	ppb		99
77) 1,3,5-Trimethylbenzene	7.019	105	689057	41.4211074	ppb		98
78) tert-Butylbenzene	7.264	119	564957	42.5124515	ppb		100
79) 1,2,4-Trimethylbenzene	7.315	105	686859	40.9212443	ppb		100
80) sec-Butylbenzene	7.402	105	904082	40.5295582	ppb		99
81) 1,3-DICHLOROBENZENE	7.575	146	382387	40.0489256	ppb		100
82) p-Isopropyltoluene	7.508	119	710249	38.8414931	ppb		100
83) DICYCLOPENTADIENE	7.501	66	944363	39.2195451	ppb		100
85) 1,4-DICHLOROBENZENE	7.643	146	393124	39.2779741	ppb	#	66
86) 1,2,3-TRIMETHYLBENZENE	7.656	105	703294	38.8755447	ppb		99
87) 1,2-DICHLOROBENZENE	7.974	146	372373	40.2657548	ppb		99
88) n-Butylbenzene	7.839	91	710663	39.2235254	ppb		99
89) 1,2-Dibromo-3-chloropr...	8.608	157	41694	37.6487692	ppb		97
90) 1,2,4-Trichlorobenzene	9.173	180	214868	37.8794707	ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.151	225	116136	38.6377465	ppb		98
92) Naphthalene	9.437	128	577291	39.3549825	ppb		100
93) 1,2,3-Trichlorobenzene	9.598	180	200281	37.9583719	ppb		99
94) 1-Methylnaphthalene	10.321	142	274293	38.3558836	ppb		99
95) 2-Methylnaphthalene	10.443	142	227535	38.9113198	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 11A.D
Acq On : 15 Sep 2015 2:03 pm
Operator : 621
Sample : STD VMS 40 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS25

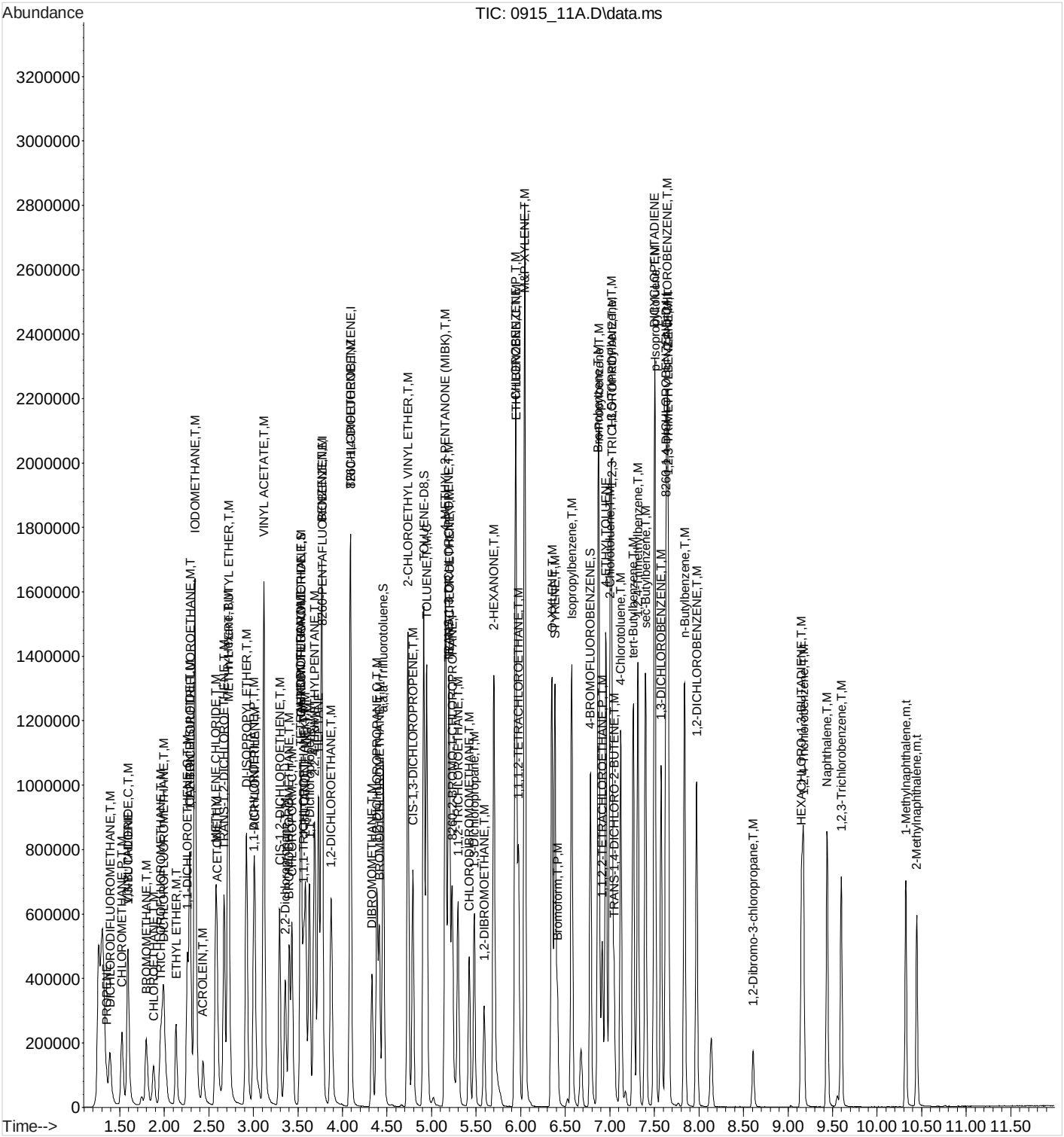
Quant Time: Sep 16 14:33:45 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 11A.D
Acq On : 15 Sep 2015 2:03 pm
Operator : 621
Sample : STD VMS 40 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 11 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:33:45 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 12A.D
Acq On : 15 Sep 2015 2:21 pm
Operator : 621
Sample : STD VMS 75 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:34:17 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	3.775	168	389947	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.090	114	667219	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.231	79	110951	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.630	152	289669	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-3.78
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.10
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.24
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-7.64
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.534	111	268070	45.4576247	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 113.64%			
46) a,a,a-Trifluorotoluene	4.460	146	398273	46.4737675	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 116.18%#			
50) TOLUENE-D8	4.913	98	896581	46.2553928	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 115.64%#			
68) 4-BROMOFLUOROBENZENE	6.784	95	329537	48.7866703	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 121.97%#			
Target Compounds						Qvalue
3) PROPENE	1.360	41	49774	67.3818823	ppb	98
4) DICHLORODIFLUOROMETHANE	1.392	85	372086	74.3352947	ppb	97
5) CHLOROMETHANE	1.531	50	485725	69.8819598	ppb	100
6) VINYL CHLORIDE	1.595	62	430657	75.2484335	ppb	99
7) 1,3-BUTADIENE	1.595	39	292258	71.4892432	ppb	96
8) BROMOMETHANE	1.801	94	292480	71.6425937	ppb	98
9) CHLOROETHANE	1.884	64	217746	74.5098590	ppb	97
10) TRICHLOROFLUOROMETHANE	1.965	101	519401	73.0922918	ppb	100
11) DICHLOROFLUOROMETHANE	1.997	67	630910	70.8882868	ppb	99
12) ETHYL ETHER	2.132	59	237060	69.1718657	ppb	99
13) ACROLEIN	2.434	56	205716	365.3555608	ppb	96
14) 1,1-DICHLOROETHENE	2.257	61	479407	70.7539644	ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.293	101	294029	69.3425535	ppb	97
16) ACETONE	2.592	43	789371	357.5048845	ppb	94
17) IODOMETHANE	2.344	142	3160741	375.1585385	ppb	99
18) CARBON DISULFIDE	2.286	76	1082133	70.4151071	ppb	100
19) METHYLENE CHLORIDE	2.579	84	385847	73.2416672	ppb	97
20) ACRYLONITRILE	3.016	53	682250	357.4359743	ppb	99
21) n-Hexane	2.717	56	327558	69.7085318	ppb	97
22) TRANS-1,2-DICHLOROETHENE	2.672	96	359734	72.9692318	ppb	99
23) METHYL TERT-BUTYL ETHER	2.723	73	927554	70.8240808	ppb	100
24) 1,1-DICHLOROETHANE	3.003	63	706614	71.9110599	ppb	99
25) VINYL ACETATE	3.119	43	4068925	341.6709318	ppb	100
26) DI-ISOPROPYL ETHER	2.923	45	1341760	71.0754681	ppb	99
27) 2,2-Dichloropropane	3.357	77	403791	65.8619461	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.296	96	391602	69.9759168	ppb	98
29) 2-BUTANONE (MEK)	3.588	43	1277413	359.9899074	ppb	94
30) BROMOCHLOROMETHANE	3.402	130	239167	71.6285940	ppb	99
31) TETRAHYDROFURAN	3.527	42	119636	69.7925811	ppb	98
32) CHLOROFORM	3.434	83	659731	69.8544886	ppb	99
34) 1,1,1-TRICHLOROETHANE	3.566	97	516175	73.4855901	ppb	99
35) CARBON TETRACHLORIDE	3.534	117	545923	71.9569084	ppb	100
36) 1,1-Dichloropropene	3.630	75	498813	72.6497640	ppb	99

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 12A.D
Acq On : 15 Sep 2015 2:21 pm
Operator : 621
Sample : STD VMS 75 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:34:17 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	3.688	57	1430382	67.8017671 ppb		99
38) HEPTANE	3.733	43	722955	71.3880648 ppb		97
39) BENZENE	3.765	78	1458240	72.0306245 ppb		99
40) 1,2-DICHLOROETHANE	3.868	62	474672	71.9161226 ppb		99
42) TRICHLOROETHENE	4.090	130	366055	72.4628322 ppb		100
43) 1,2-DICHLOROPROPANE	4.386	62	310924	73.4071575 ppb		99
44) DIBROMOMETHANE	4.331	93	249999	72.2185018 ppb		99
45) BROMODICHLOROMETHANE	4.415	83	537543	75.5464202 ppb		99
47) 2-CHLOROETHYL VINYL ETHER	4.736	63	1091077	364.9458242 ppb		100
48) CIS-1,3-DICHLOROPROPENE	4.791	75	654148	74.6004464 ppb		99
49) 4-METHYL-2-PENTANONE (...	5.154	43	2257138	357.4653761 ppb		100
51) TOLUENE	4.945	91	1501768	72.5880942 ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.190	75	597169	73.0319985 ppb		99
54) 1,1,2-TRICHLOROETHANE	5.296	97	326010	75.7551639 ppb		99
55) TETRACHLOROETHENE	5.202	164	273454	74.9604808 ppb		98
56) 1,3-Dichloropropane	5.479	76	566226	76.6601527 ppb		100
57) 2-HEXANONE	5.701	58	953627	393.0345505 ppb		99
58) CHLORODIBROMOMETHANE	5.421	129	393639	77.0706530 ppb		99
59) 1,2-DIBROMOETHANE	5.588	107	349946	75.0085758 ppb		99
60) CHLOROBENZENE	5.939	112	964935	75.8663160 ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	5.977	133	341599	77.0687080 ppb	#	99
62) ETHYLBENZENE	5.948	106	502609	75.1011748 ppb		99
63) M&P-XYLENE	6.045	106	1257327	150.0600586 ppb		100
64) O-XYLENE	6.350	106	608525	75.7304204 ppb		99
65) STYRENE	6.386	104	1016664	74.6269673 ppb		99
66) Bromoform	6.411	173	255161	78.1706305 ppb		99
67) Isopropylbenzene	6.572	105	1537482	73.1125833 ppb		100
69) Bromobenzene	6.868	77	711873	73.2263783 ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	6.916	83	480990	75.2012851 ppb		98
71) 1,2,3-TRICHLOROPROPANE	7.025	110	111774	77.1852123 ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.048	53	120759	74.1528178 ppb	#	93
73) n-Propylbenzene	6.878	91	1902182	73.9075529 ppb		100
74) 4-ETHYLTOLUENE	6.958	105	1554529	74.3428224 ppb		99
75) 2-Chlorotoluene	7.003	126	375291	83.5973692 ppb		81
76) 4-Chlorotoluene	7.125	91	1137999	75.5913035 ppb		99
77) 1,3,5-Trimethylbenzene	7.019	105	1270445	76.4958985 ppb		99
78) tert-Butylbenzene	7.263	119	1035254	78.0303218 ppb		100
79) 1,2,4-Trimethylbenzene	7.315	105	1253067	74.7775541 ppb		100
80) sec-Butylbenzene	7.402	105	1639813	73.6332716 ppb		99
81) 1,3-DICHLOROBENZENE	7.575	146	687818	72.1567580 ppb		100
82) p-Isopropyltoluene	7.508	119	1314622	72.0115081 ppb		100
83) DICYCLOPENTADIENE	7.501	66	1737048	72.2588647 ppb		100
85) 1,4-DICHLOROBENZENE	7.643	146	718648	73.1991425 ppb	#	39
86) 1,2,3-TRIMETHYLBENZENE	7.656	105	1291765	72.7936237 ppb		99
87) 1,2-DICHLOROBENZENE	7.974	146	677765	74.7148707 ppb		99
88) n-Butylbenzene	7.839	91	1322425	74.4087866 ppb		100
89) 1,2-Dibromo-3-chloropr...	8.607	157	84620	77.8969570 ppb		98
90) 1,2,4-Trichlorobenzene	9.173	180	413325	74.2837955 ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.154	225	220721	74.8615528 ppb		99
92) Naphthalene	9.440	128	1106863	76.9252750 ppb		100
93) 1,2,3-Trichlorobenzene	9.598	180	383555	74.1081078 ppb		100
94) 1-Methylnaphthalene	10.321	142	529441	75.4753418 ppb		99
95) 2-Methylnaphthalene	10.443	142	422751	73.7025723 ppb		100

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 12A.D
Acq On : 15 Sep 2015 2:21 pm
Operator : 621
Sample : STD VMS 75 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS25

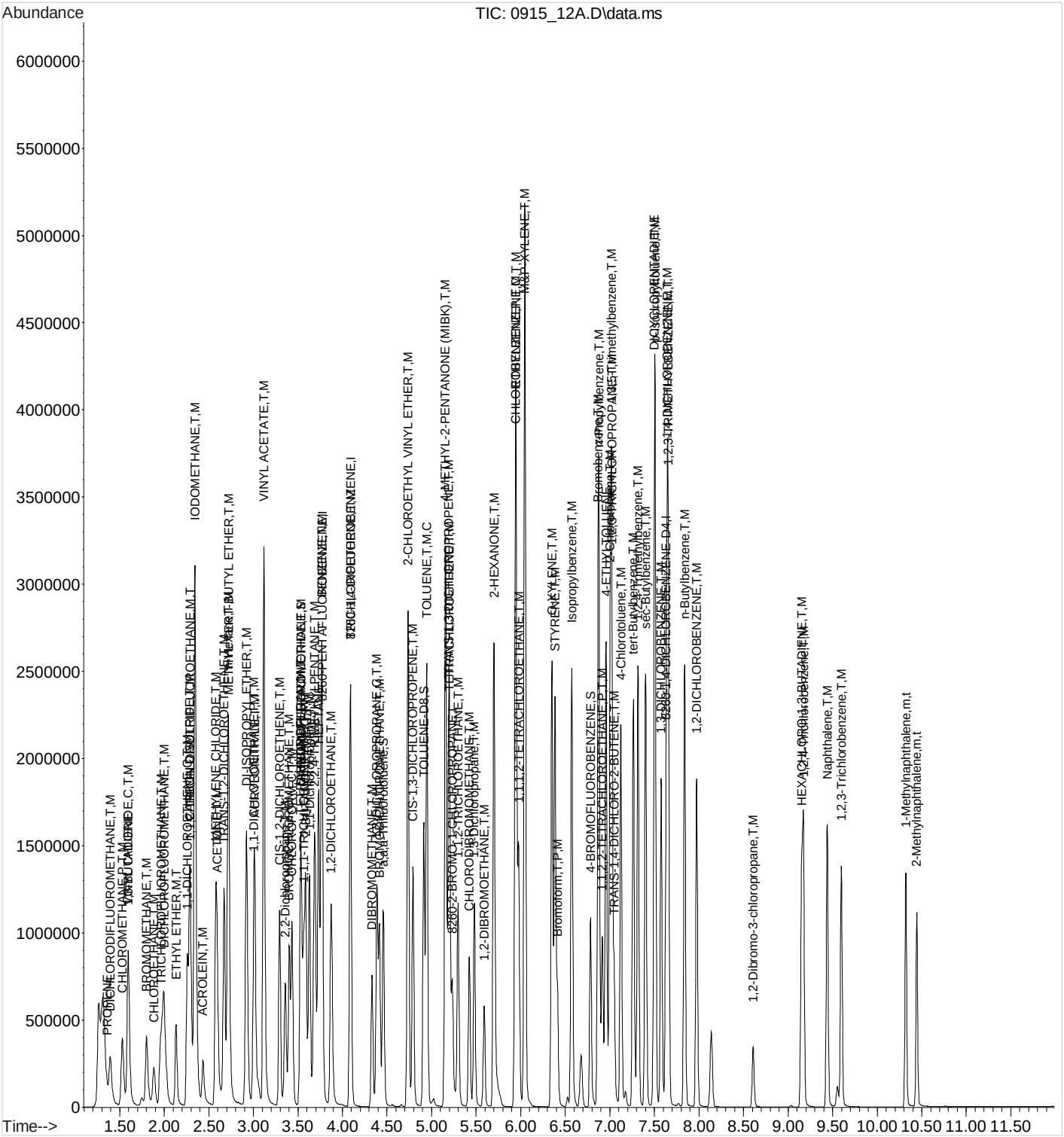
Quant Time: Sep 16 14:34:17 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 12A.D
Acq On : 15 Sep 2015 2:21 pm
Operator : 621
Sample : STD VMS 75 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 12 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:34:17 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 13A.D
Acq On : 15 Sep 2015 2:39 pm
Operator : 621
Sample : STD VMS 100 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:34:38 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	3.772	168	389004	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.090	114	661182	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.231	79	107559	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.633	152	297073	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-3.78
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.10
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.24
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-7.64
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.530	111	273113	46.4250536	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 116.06%			
46) a,a,a-Trifluorotoluene	4.456	146	393298	46.3122772	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 115.78%			
50) TOLUENE-D8	4.913	98	895070	46.5990676	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 116.50%#			
68) 4-BROMOFLUOROBENZENE	6.784	95	326904	49.9231171	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 124.81%#			
Target Compounds						Qvalue
3) PROPENE	1.354	41	70745	96.0036760	ppb	98
4) DICHLORODIFLUOROMETHANE	1.389	85	500191	100.1703353	ppb	97
5) CHLOROMETHANE	1.524	50	673197	97.0886153	ppb	100
6) VINYL CHLORIDE	1.588	62	606096	106.1595055	ppb	99
7) 1,3-BUTADIENE	1.588	39	407583	99.9405810	ppb	98
8) BROMOMETHANE	1.794	94	411149	100.9545463	ppb	98
9) CHLOROETHANE	1.868	64	247285	84.8228472	ppb	98
10) TRICHLOROFLUOROMETHANE	1.949	101	721404	101.7650993	ppb	99
11) DICHLOROFLUOROMETHANE	1.984	67	874680	98.5162297	ppb	99
12) ETHYL ETHER	2.129	59	335576	98.1552693	ppb	100
13) ACROLEIN	2.434	56	301756	537.2235982	ppb	96
14) 1,1-DICHLOROETHENE	2.251	61	650733	96.2721687	ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.286	101	397568	93.9880417	ppb	97
16) ACETONE	2.595	43	1378999	626.0604663	ppb	100
17) IODOMETHANE	2.338	142	4119386	490.1284705	ppb	100
18) CARBON DISULFIDE	2.280	76	1496842	97.6366073	ppb	100
19) METHYLENE CHLORIDE	2.575	84	512544	97.5272018	ppb	99
20) ACRYLONITRILE	3.016	53	951818	499.8735366	ppb	99
21) n-Hexane	2.714	56	439085	93.6694224	ppb	93
22) TRANS-1,2-DICHLOROETHENE	2.669	96	478701	97.3361442	ppb	100
23) METHYL TERT-BUTYL ETHER	2.723	73	1261561	96.5609468	ppb	99
24) 1,1-DICHLOROETHANE	3.003	63	928434	94.7143984	ppb	98
25) VINYL ACETATE	3.116	43	5199370	437.6536831	ppb	100
26) DI-ISOPROPYL ETHER	2.923	45	1797410	95.4428849	ppb	100
27) 2,2-Dichloropropane	3.357	77	545146	89.1337689	ppb	98
28) CIS-1,2-DICHLOROETHENE	3.293	96	529380	94.8249762	ppb	99
29) 2-BUTANONE (MEK)	3.588	43	1847067	521.7868852	ppb	98
30) BROMOCHLOROMETHANE	3.402	130	323416	97.0952956	ppb	99
31) TETRAHYDROFURAN	3.527	42	186450	109.0338331	ppb	98
32) CHLOROFORM	3.431	83	888294	94.2834946	ppb	99
34) 1,1,1-TRICHLOROETHANE	3.563	97	705177	100.6363496	ppb	99
35) CARBON TETRACHLORIDE	3.530	117	759553	100.3577011	ppb	100
36) 1,1-Dichloropropene	3.627	75	653728	95.4432122	ppb	99

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 13A.D
Acq On : 15 Sep 2015 2:39 pm
Operator : 621
Sample : STD VMS 100 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:34:38 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	3.685	57	1934600	91.9245847	ppb		98
38) HEPTANE	3.730	43	926983	91.7566670	ppb		98
39) BENZENE	3.765	78	1971216	97.6054135	ppb		98
40) 1,2-DICHLOROETHANE	3.868	62	642877	97.6364668	ppb		99
42) TRICHLOROETHENE	4.087	130	498330	99.5481920	ppb		99
43) 1,2-DICHLOROPROPANE	4.386	62	410570	97.8179950	ppb		99
44) DIBROMOMETHANE	4.331	93	346660	101.0558174	ppb		98
45) BROMODICHLOROMETHANE	4.415	83	710527	100.7693942	ppb		100
47) 2-CHLOROETHYL VINYL ETHER	4.736	63	1492650	503.8234370	ppb		100
48) CIS-1,3-DICHLOROPROPENE	4.791	75	873645	100.5420619	ppb		99
49) 4-METHYL-2-PENTANONE (...	5.157	43	3159785	504.9876842	ppb		100
51) TOLUENE	4.945	91	2055676	100.2685181	ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.190	75	810233	99.9938388	ppb		99
54) 1,1,2-TRICHLOROETHANE	5.296	97	442988	106.1836738	ppb		99
55) TETRACHLOROETHENE	5.199	164	377175	106.6535823	ppb		99
56) 1,3-Dichloropropane	5.479	76	750063	104.7519413	ppb		100
57) 2-HEXANONE	5.701	58	1322752	562.3608552	ppb		99
58) CHLORODIBROMOMETHANE	5.421	129	543550	109.7778912	ppb		99
59) 1,2-DIBROMOETHANE	5.588	107	476323	105.3163753	ppb		99
60) CHLOROBENZENE	5.939	112	1321647	107.1891620	ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	5.977	133	460654	107.2064214	ppb	#	100
62) ETHYLBENZENE	5.948	106	680332	104.8628926	ppb		98
63) M&P-XYLENE	6.045	106	1707499	210.2140759	ppb		99
64) O-XYLENE	6.350	106	836092	107.3323098	ppb		99
65) STYRENE	6.386	104	1417420	107.3251166	ppb		99
66) Bromoform	6.411	173	349667	110.5015657	ppb		99
67) Isopropylbenzene	6.572	105	2163099	106.1067349	ppb		99
69) Bromobenzene	6.868	77	983617	104.3699619	ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	6.916	83	664655	107.1938714	ppb		98
71) 1,2,3-TRICHLOROPROPANE	7.025	110	157723	112.3499294	ppb		100
72) TRANS-1,4-DICHLORO-2-B...	7.048	53	172850	109.4868598	ppb	#	94
73) n-Propylbenzene	6.878	91	2644719	105.9987528	ppb		99
74) 4-ETHYLTOLUENE	6.958	105	2176589	107.3744894	ppb		100
75) 2-Chlorotoluene	7.003	126	514314	118.1781732	ppb		81
76) 4-Chlorotoluene	7.125	91	1529954	104.8317396	ppb		100
77) 1,3,5-Trimethylbenzene	7.019	105	1808836	112.3481537	ppb		99
78) tert-Butylbenzene	7.263	119	1441009	112.0385912	ppb		99
79) 1,2,4-Trimethylbenzene	7.315	105	1761121	108.4103193	ppb		100
80) sec-Butylbenzene	7.402	105	2349722	108.8380420	ppb		100
81) 1,3-DICHLOROBENZENE	7.579	146	980469	106.1015692	ppb		100
82) p-Isopropyltoluene	7.508	119	1865250	105.3956105	ppb		99
83) DICYCLOPENTADIENE	7.501	66	2398974	102.9412223	ppb		100
85) 1,4-DICHLOROBENZENE	7.643	146	1009239	100.2357479	ppb	#	30
86) 1,2,3-TRIMETHYLBENZENE	7.656	105	1851826	101.7533793	ppb		100
87) 1,2-DICHLOROBENZENE	7.974	146	947397	101.8353955	ppb		99
88) n-Butylbenzene	7.839	91	1862543	102.1876279	ppb		100
89) 1,2-Dibromo-3-chloropr...	8.607	157	123442	110.8024234	ppb		99
90) 1,2,4-Trichlorobenzene	9.173	180	632990	110.9272122	ppb		98
91) HEXACHLORO-1,3-BUTADIENE	9.154	225	336172	111.1771539	ppb		97
92) Naphthalene	9.440	128	1659748	112.4750460	ppb		100
93) 1,2,3-Trichlorobenzene	9.598	180	599270	112.9014322	ppb		100
94) 1-Methylnaphthalene	10.321	142	859636	119.4925836	ppb		100
95) 2-Methylnaphthalene	10.443	142	693405	117.8755708	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 13A.D
Acq On : 15 Sep 2015 2:39 pm
Operator : 621
Sample : STD VMS 100 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 13 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:34:38 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 13A.D
Acq On : 15 Sep 2015 2:39 pm
Operator : 621
Sample : STD VMS 100 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 13 Sample Multiplier: 1
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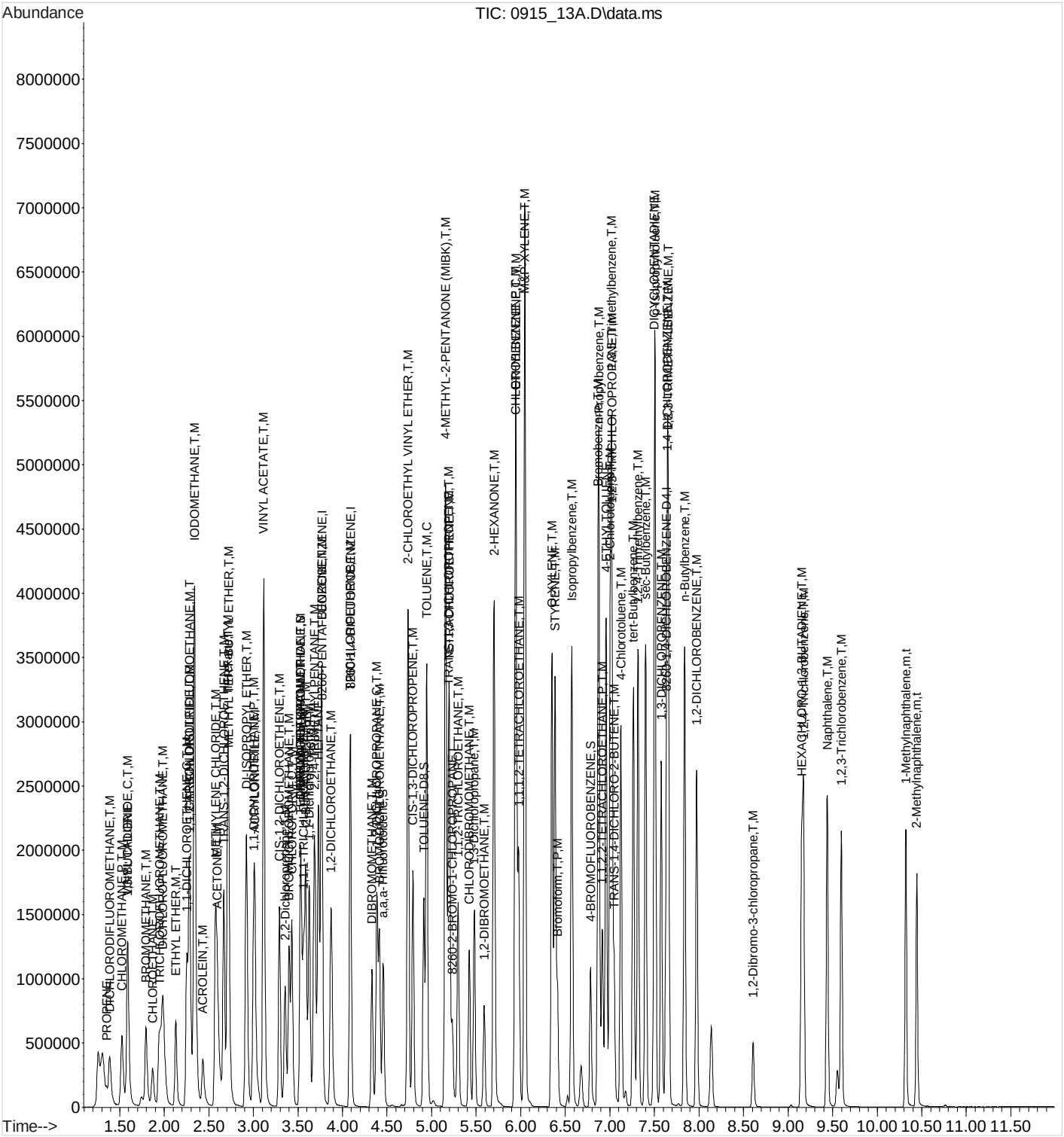
Quant Time: Sep 16 14:34:38 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 14A.D
Acq On : 15 Sep 2015 2:58 pm
Operator : 621
Sample : STD VMS 200 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:34:58 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	3.775	168	393588	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.090	114	669255	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.231	79	110736	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	7.633	152	296516	40.0000000	ppb	# 0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-3.78
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.10
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.24
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-7.64
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	3.534	111	280994	47.2084027	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 118.02%			
46) a,a,a-Trifluorotoluene	4.457	146	393706	45.8010916	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 114.50%			
50) TOLUENE-D8	4.913	98	918357	47.2347002	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 118.09%#			
68) 4-BROMOFLUOROBENZENE	6.784	95	330032	48.9548174	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 122.39%#			
Target Compounds						Qvalue
3) PROPENE	1.357	41	136441	182.9992136	ppb	99
4) DICHLORODIFLUOROMETHANE	1.389	85	984996	194.9619856	ppb	97
5) CHLOROMETHANE	1.531	50	1344944	191.7090236	ppb	99
6) VINYL CHLORIDE	1.592	62	1237209	214.1769639	ppb	99
7) 1,3-BUTADIENE	1.595	39	839123	203.3591188	ppb	100
8) BROMOMETHANE	1.798	94	807710	196.0172630	ppb	98
9) CHLOROETHANE	1.868	64	450663	152.7844637	ppb	98
10) TRICHLOROFLUOROMETHANE	1.945	101	1437572	200.4297285	ppb	99
11) DICHLOROFLUOROMETHANE	1.984	67	1709076	190.2532919	ppb	99
12) ETHYL ETHER	2.132	59	657498	190.0769174	ppb	100
13) ACROLEIN	2.437	56	681595	1199.3274703	ppb	96
14) 1,1-DICHLOROETHENE	2.251	61	1306682	191.0645214	ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.289	101	801843	187.3539011	ppb	97
16) ACETONE	2.598	43	2746193	1232.2408532	ppb	100
17) IODOMETHANE	2.338	142	8461138	994.9893640	ppb	99
18) CARBON DISULFIDE	2.280	76	3005185	193.7403813	ppb	100
19) METHYLENE CHLORIDE	2.576	84	1010521	190.0431285	ppb	99
20) ACRYLONITRILE	3.019	53	1858909	964.8872784	ppb	99
21) n-Hexane	2.714	56	861605	181.6643336	ppb	94
22) TRANS-1,2-DICHLOROETHENE	2.669	96	944441	189.8002825	ppb	98
23) METHYL TERT-BUTYL ETHER	2.727	73	2539561	192.1162619	ppb	97
24) 1,1-DICHLOROETHANE	3.003	63	1849617	186.4914799	ppb	99
25) VINYL ACETATE	3.119	43	10069572	837.7281196	ppb	99
26) DI-ISOPROPYL ETHER	2.923	45	3636886	190.8702800	ppb	100
27) 2,2-Dichloropropane	3.357	77	984535	159.1009667	ppb	97
28) CIS-1,2-DICHLOROETHENE	3.293	96	1048736	185.6665242	ppb	98
29) 2-BUTANONE (MEK)	3.588	43	3604521	1006.3992125	ppb	98
30) BROMOCHLOROMETHANE	3.402	130	636506	188.8649669	ppb	98
31) TETRAHYDROFURAN	3.531	42	355660	205.5635620	ppb	99
32) CHLOROFORM	3.434	83	1761462	184.7840319	ppb	99
34) 1,1,1-TRICHLOROETHANE	3.563	97	1373341	193.7079032	ppb	99
35) CARBON TETRACHLORIDE	3.531	117	1504552	196.4771461	ppb	100
36) 1,1-Dichloropropene	3.627	75	1303453	188.0856035	ppb	99

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 14A.D
Acq On : 15 Sep 2015 2:58 pm
Operator : 621
Sample : STD VMS 200 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:34:58 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	3.688	57	3537577	166.1340349	ppb		98
38) HEPTANE	3.730	43	1899957	185.8753718	ppb	#	65
39) BENZENE	3.765	78	3871742	189.4777931	ppb		97
40) 1,2-DICHLOROETHANE	3.868	62	1255793	188.5013404	ppb		99
42) TRICHLOROETHENE	4.090	130	1000070	197.3677276	ppb		99
43) 1,2-DICHLOROPROPANE	4.386	62	817951	192.5254863	ppb		99
44) DIBROMOMETHANE	4.331	93	682330	196.5085496	ppb		98
45) BROMODICHLOROMETHANE	4.415	83	1423308	199.4235072	ppb		100
47) 2-CHLOROETHYL VINYL ETHER	4.736	63	2950227	983.7963606	ppb		100
48) CIS-1,3-DICHLOROPROPENE	4.791	75	1782427	202.6534218	ppb		100
49) 4-METHYL-2-PENTANONE (...	5.157	43	6286884	992.6316031	ppb		99
51) TOLUENE	4.945	91	4201942	202.4833801	ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.193	75	1621694	197.7250168	ppb		98
54) 1,1,2-TRICHLOROETHANE	5.299	97	890731	207.3816266	ppb		98
55) TETRACHLOROETHENE	5.202	164	769056	211.2265166	ppb		99
56) 1,3-Dichloropropane	5.479	76	1479326	200.6717101	ppb		100
57) 2-HEXANONE	5.701	58	2648439	1093.6656056	ppb		98
58) CHLORODIBROMOMETHANE	5.424	129	1073182	210.5264598	ppb		98
59) 1,2-DIBROMOETHANE	5.592	107	944012	202.7354941	ppb		100
60) CHLOROBENZENE	5.939	112	2671527	210.4519203	ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	5.977	133	940334	212.5621901	ppb		99
62) ETHYLBENZENE	5.948	106	1407831	210.7702848	ppb		100
63) M&P-XYLENE	6.048	106	3521622	421.1162471	ppb		100
64) O-XYLENE	6.350	106	1661916	207.2255975	ppb		99
65) STYRENE	6.386	104	2799195	205.8703915	ppb		99
66) Bromoform	6.415	173	696646	213.8374939	ppb		99
67) Isopropylbenzene	6.575	105	4330268	206.3190141	ppb		99
69) Bromobenzene	6.871	77	1978790	203.9422140	ppb		97
70) 1,1,2,2-TETRACHLOROETHANE	6.916	83	1292800	202.5176817	ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.026	110	305662	211.4838214	ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.051	53	344786	212.1290577	ppb		95
73) n-Propylbenzene	6.878	91	5351158	208.3180581	ppb		99
74) 4-ETHYLTOLUENE	6.961	105	4390767	210.3889843	ppb		99
75) 2-Chlorotoluene	7.003	126	1034619	230.9124236	ppb		79
76) 4-Chlorotoluene	7.125	91	3142667	209.1561834	ppb		100
77) 1,3,5-Trimethylbenzene	7.022	105	3623670	218.6116546	ppb		99
78) tert-Butylbenzene	7.267	119	2923639	220.7916354	ppb		99
79) 1,2,4-Trimethylbenzene	7.318	105	3523500	210.6753032	ppb		100
80) sec-Butylbenzene	7.402	105	4745697	213.5119403	ppb		100
81) 1,3-DICHLOROBENZENE	7.579	146	1958898	205.9006355	ppb		100
82) p-Isopropyltoluene	7.511	119	3929622	215.6722036	ppb		99
83) DICYCLOPENTADIENE	7.501	66	4821217	200.9455452	ppb		99
85) 1,4-DICHLOROBENZENE	7.646	146	2066015	205.5782335	ppb	#	18
86) 1,2,3-TRIMETHYLBENZENE	7.659	105	3836143	211.1827793	ppb		100
87) 1,2-DICHLOROBENZENE	7.977	146	1896684	204.2569201	ppb		99
88) n-Butylbenzene	7.839	91	3773988	207.4471984	ppb		100
89) 1,2-Dibromo-3-chloropr...	8.608	157	243295	218.7935639	ppb		99
90) 1,2,4-Trichlorobenzene	9.173	180	1390829	244.1912152	ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.154	225	736847	244.1441840	ppb		98
92) Naphthalene	9.440	128	3427233	232.6873136	ppb		100
93) 1,2,3-Trichlorobenzene	9.598	180	1225687	231.3510863	ppb		99
94) 1-Methylnaphthalene	10.321	142	1658172	230.9250163	ppb		99
95) 2-Methylnaphthalene	10.447	142	1352596	230.3668521	ppb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 14A.D
Acq On : 15 Sep 2015 2:58 pm
Operator : 621
Sample : STD VMS 200 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS25

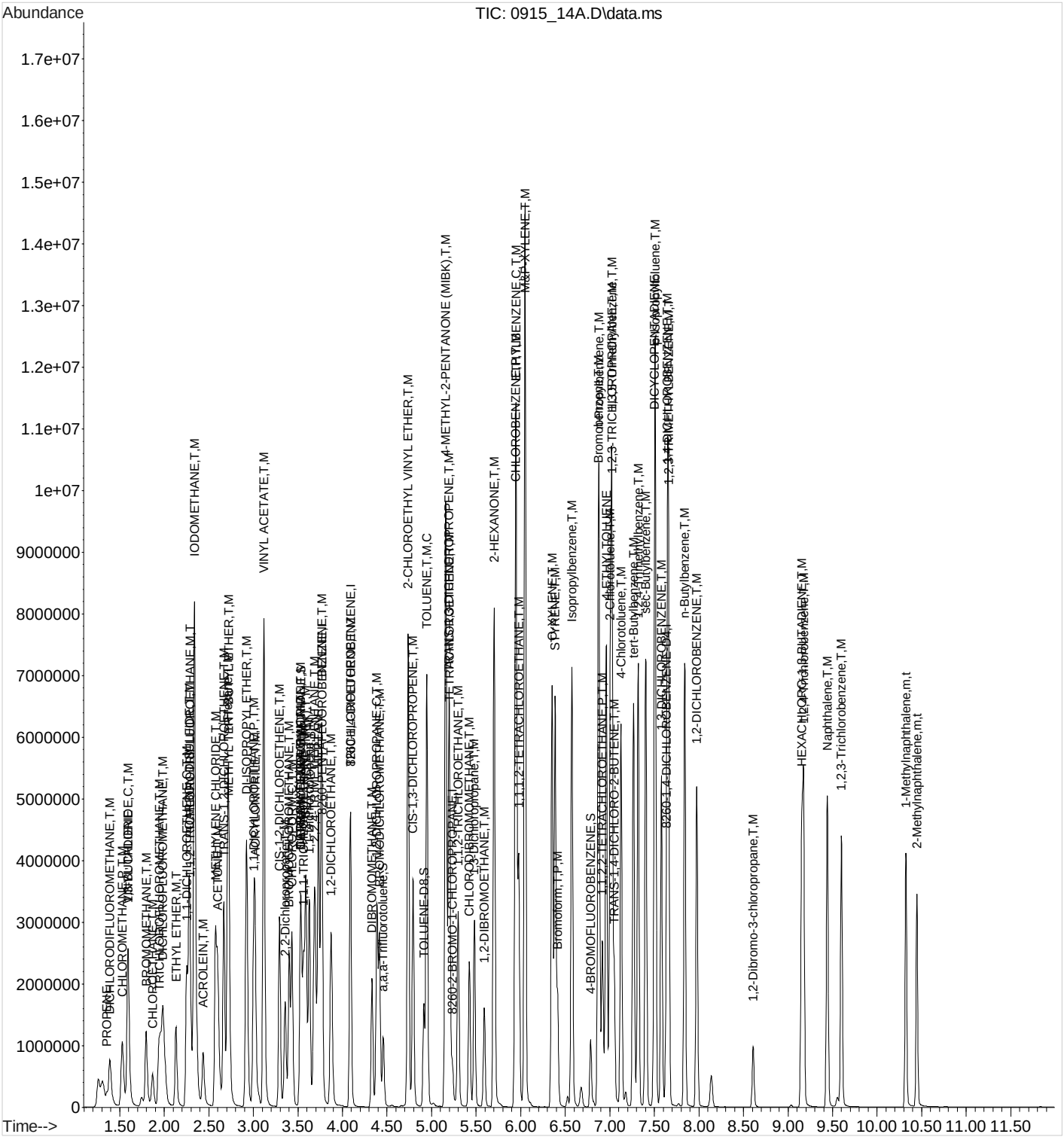
Quant Time: Sep 16 14:34:58 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 14A.D
Acq On : 15 Sep 2015 2:58 pm
Operator : 621
Sample : STD VMS 200 ppb 15I04618
Misc : water IS/SURR15A20860
ALS Vial : 14 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:34:58 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:25:47 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 18A.D
Acq On : 15 Sep 2015 4:11 pm
Operator : 621
Sample : STD VMS 1a ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS25

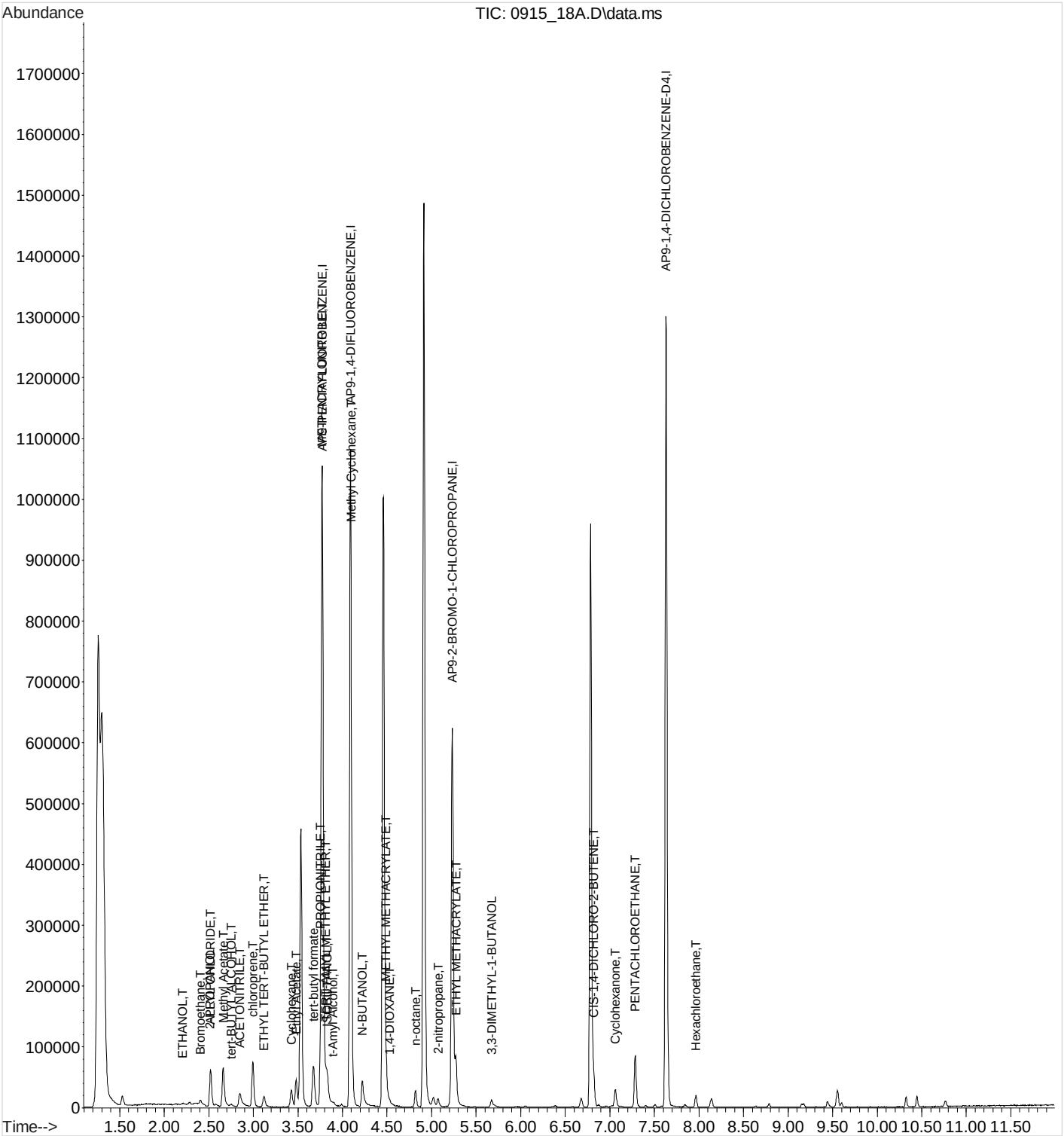
Quant Time: Sep 16 14:49:16 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-3.77
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.09
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb	-5.23
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb	-7.63
96) AP9-PENTAFLUOROBENZENE	3.775	168	410595	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.090	114	692748	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.231	79	117003	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	308564	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#		
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#		
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#		
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#		
Target Compounds						Qvalue
97) ETHANOL	2.202	45	3631	73.5276853	ppb #	48
98) Bromoethane	2.405	108	4232	1.0443778	ppb	83
99) 2-PROPANOL	2.514	45	1941	6.4095888	ppb #	65
100) Methyl Acetate	2.662	43	79231	19.8130641	ppb #	100
101) ACETONITRILE	2.849	41	29232	43.2767973	ppb	94
102) ALLYL CHLORIDE	2.521	76	11689	4.9974196	ppb	97
103) tert-BUTYL ALCOHOL	2.752	59	4231	4.3192216	ppb #	89
104) chloroprene	2.993	53	37532	5.1903447	ppb	100
105) ETHYL TERT-BUTYL ETHER	3.119	59	14946	1.0209227	ppb	98
106) PROPIONITRILE	3.752	54	36673	50.4548785	ppb #	82
107) Ethyl Acetate	3.479	43	52342	9.8073084	ppb	99
108) METHACRYLONITRILE	3.768	67	104664	51.0026032	ppb	99
109) Cyclohexane	3.428	56	12566	1.0685580	ppb	96
110) tert-butyl formate	3.675	59	31718	9.4644483	ppb	93
111) ISOBUTANOL	3.829	43	29601	85.2017850	ppb	93
112) t-Amyl Alcohol	3.891	59	2275	4.6748000	ppb	96
113) TERT-AMYL METHYL ETHER	3.813	73	16389	1.0297525	ppb	81
115) N-BUTANOL	4.222	56	26393	153.5291883	ppb	98
116) Methyl Cyclohexane	4.096	83	18194	1.5687817	ppb #	78
117) 2-nitropropane	5.074	43	7344	4.6083030	ppb	88
118) METHYL METHACRYLATE	4.485	41	24443	4.3945281	ppb #	33
119) 1,4-DIOXANE	4.530	88	3935	74.0246031	ppb #	89
120) n-octane	4.820	85	3900	0.9372763	ppb	92
121) 3,3-DIMETHYL-1-BUTANOL	5.675	57	6534	8.3909079	ppb	91
123) ETHYL METHACRYLATE	5.276	69	23887	3.9136249	ppb #	36
124) CIS-1,4-DICHLORO-2-BUTENE	6.816	53	7931	4.4938836	ppb #	19
125) Cyclohexanone	7.061	55	13199	8.9698522	ppb	97
126) PENTACHLOROETHANE	7.283	117	16133	4.5728080	ppb	98
127) Hexachloroethane	7.964	117	3479	0.8033657	ppb	95

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

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 18A.D
Acq On : 15 Sep 2015 4:11 pm
Operator : 621
Sample : STD VMS 1a ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 18 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:49:16 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 19A.D
Acq On : 15 Sep 2015 4:29 pm
Operator : 621
Sample : STD VMS 2.5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS25

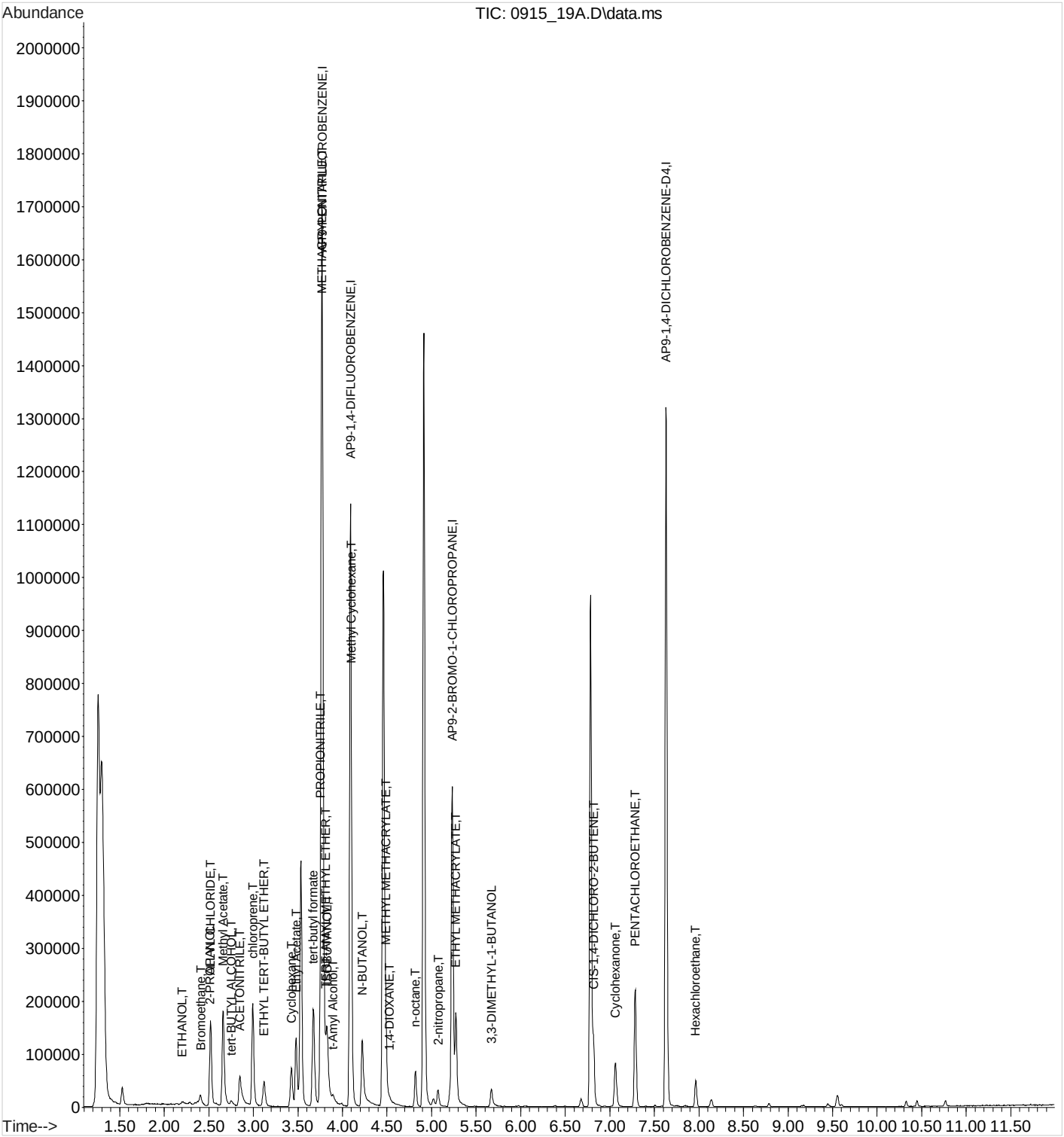
Quant Time: Sep 16 14:51:04 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-3.77
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.09
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.23
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-7.63
96) AP9-PENTAFLUOROBENZENE	3.775	168	415117	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.090	114	701242	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.231	79	112098	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	313865	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
97) ETHANOL	2.199	45	12100m	242.3556524	ppb		
98) Bromoethane	2.408	108	11052	2.6977145	ppb		98
99) 2-PROPANOL	2.511	45	2204	7.1987876	ppb	#	65
100) Methyl Acetate	2.659	43	219441	54.2771978	ppb	#	99
101) ACETONITRILE	2.849	41	76211	111.5982491	ppb		99
102) ALLYL CHLORIDE	2.521	76	31392	13.2748794	ppb		98
103) tert-BUTYL ALCOHOL	2.752	59	10995	11.1019899	ppb		95
104) chloroprene	2.994	53	98177	13.4291148	ppb		99
105) ETHYL TERT-BUTYL ETHER	3.119	59	40336	2.7252344	ppb		97
106) PROPIONITRILE	3.752	54	98953	134.6569673	ppb	#	92
107) Ethyl Acetate	3.479	43	144435	26.7679493	ppb		99
108) METHACRYLONITRILE	3.768	67	289285	139.4325170	ppb		99
109) Cyclohexane	3.428	56	33257	2.7972241	ppb		99
110) tert-butyl formate	3.672	59	84898	25.0570596	ppb		96
111) ISOBUTANOL	3.830	43	88887	253.0601125	ppb	#	93
112) t-Amyl Alcohol	3.894	59	4746	9.6461166	ppb		92
113) TERT-AMYL METHYL ETHER	3.813	73	45037	2.7989361	ppb		89
115) N-BUTANOL	4.222	56	82101	471.8000731	ppb		99
116) Methyl Cyclohexane	4.100	83	36304	3.0924036	ppb		92
117) 2-nitropropane	5.074	43	19613	12.1579330	ppb		96
118) METHYL METHACRYLATE	4.485	41	69054	12.2646155	ppb	#	94
119) 1,4-DIOXANE	4.527	88	14673m	272.6827276	ppb		
120) n-octane	4.817	85	10535	2.5011799	ppb		97
121) 3,3-DIMETHYL-1-BUTANOL	5.672	57	16933	21.4818210	ppb		91
123) ETHYL METHACRYLATE	5.273	69	74340	12.7127434	ppb		91
124) CIS-1,4-DICHLORO-2-BUTENE	6.817	53	21007	12.4238740	ppb	#	20
125) Cyclohexanone	7.061	55	37079	26.3009481	ppb		100
126) PENTACHLOROETHANE	7.283	117	42291	12.5116597	ppb		97
127) Hexachloroethane	7.961	117	10219	2.4630112	ppb		96

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

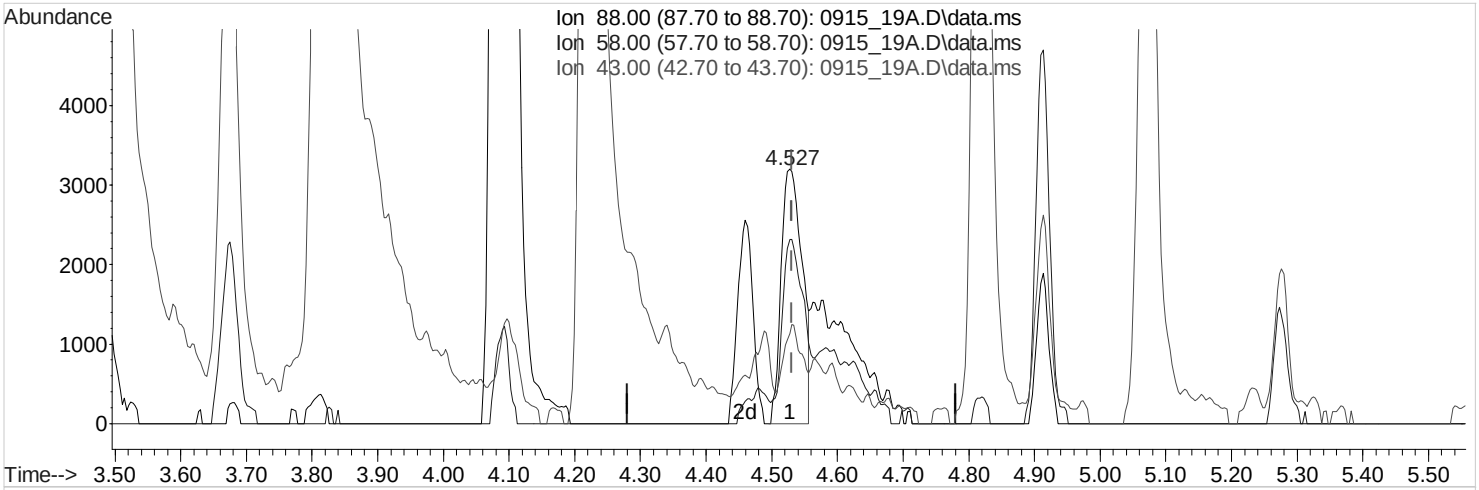
Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 19A.D
Acq On : 15 Sep 2015 4:29 pm
Operator : 621
Sample : STD VMS 2.5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS25

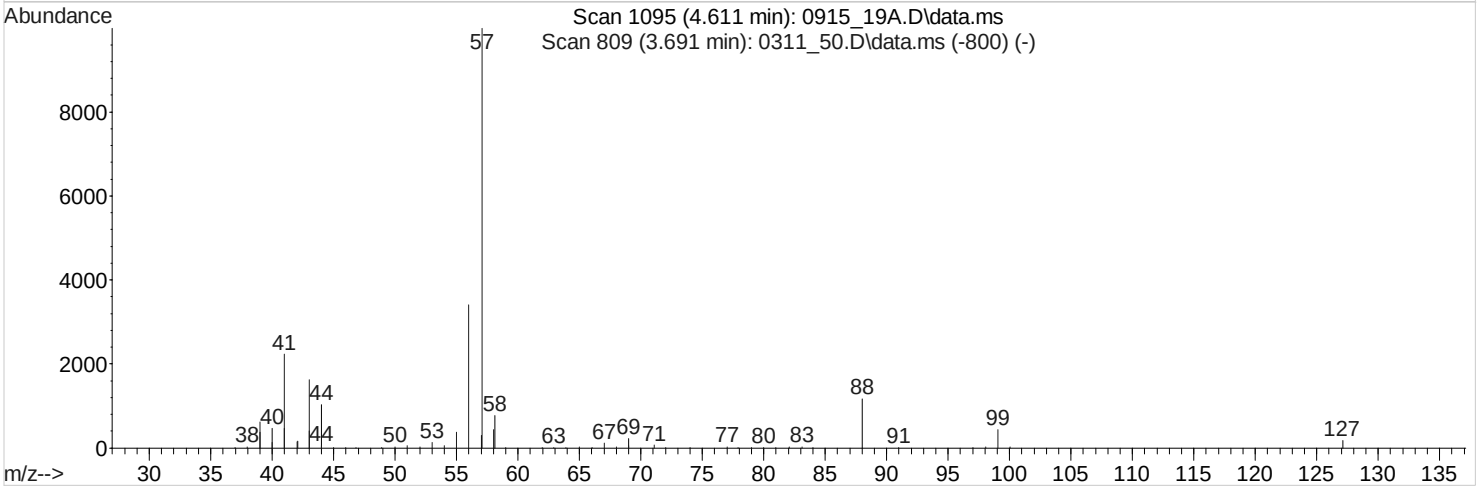
Quant Time: Sep 16 14:51:04 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration



Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 19A.D
Acq On : 15 Sep 2015 4:29 pm
Operator : 621
Sample : STD VMS 2.5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:48:09 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration





TIC: 0915_19A.D\data.ms

(119) 1,4-DIOXANE (T)

4.527min (-0.003) 132.2993483 ppb

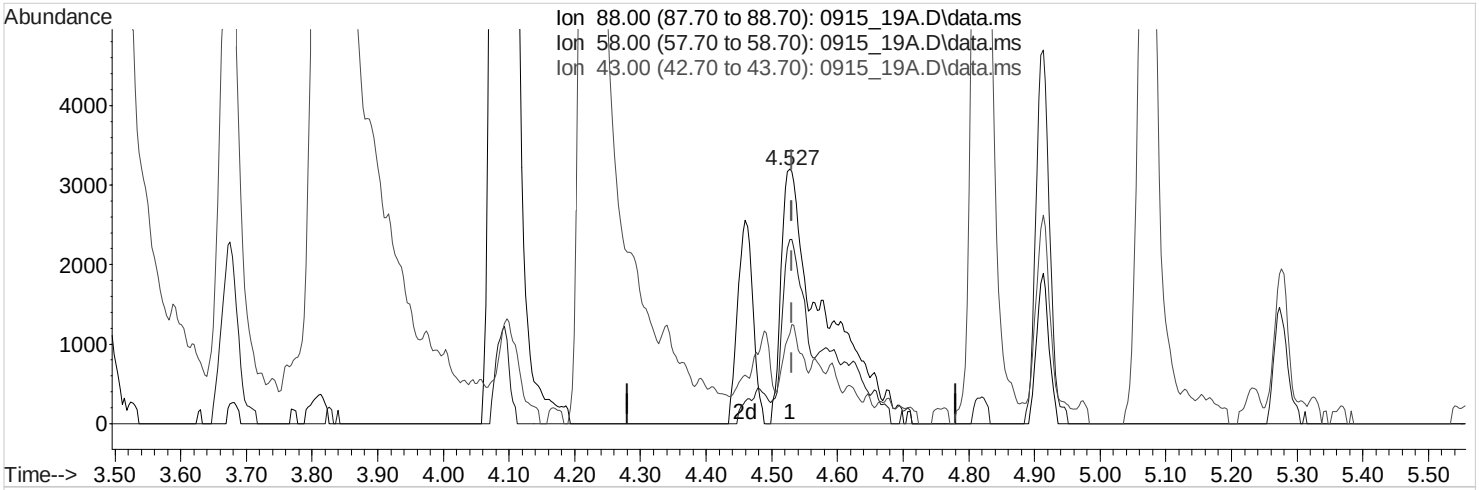
Qvalue = 96

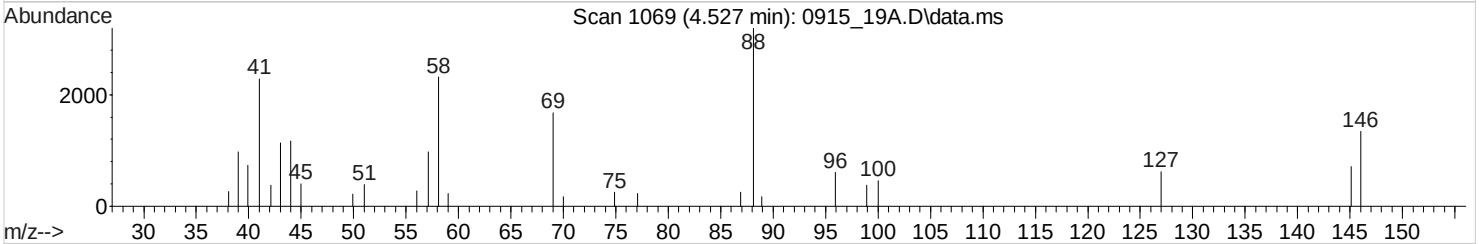
response 7119

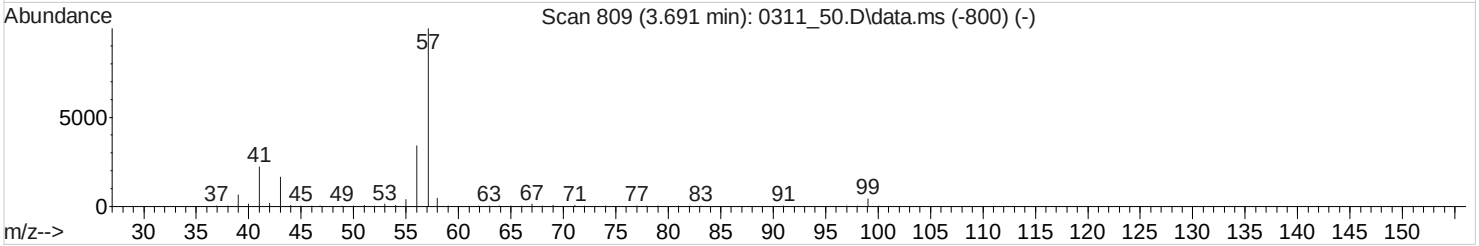
Ion	Exp%	Act%
88.00	100	100
58.00	67.40	63.86
43.00	0.00	21.11#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 19A.D
Acq On : 15 Sep 2015 4:29 pm
Operator : 621
Sample : STD VMS 2.5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:48:09 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration







TIC: 0915_19A.D\data.ms

(119) 1,4-DIOXANE (T)

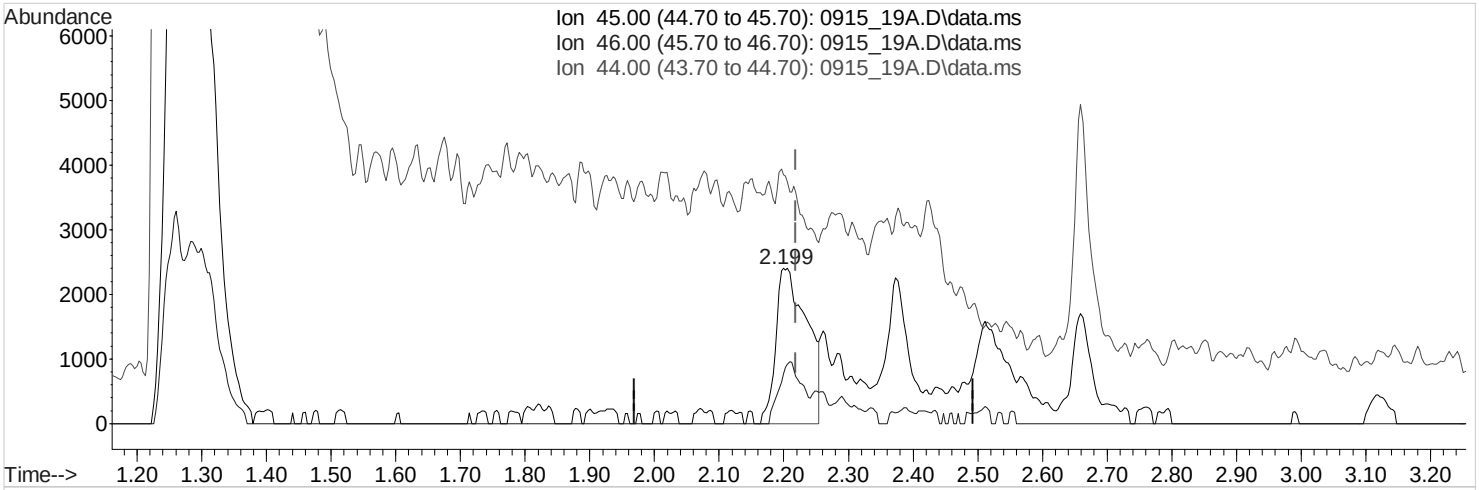
4.527min (-0.003) 272.6827276 ppb m

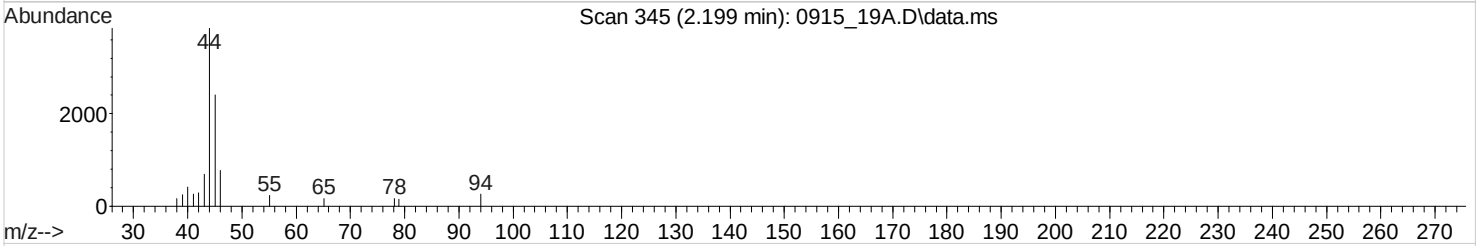
response 14673

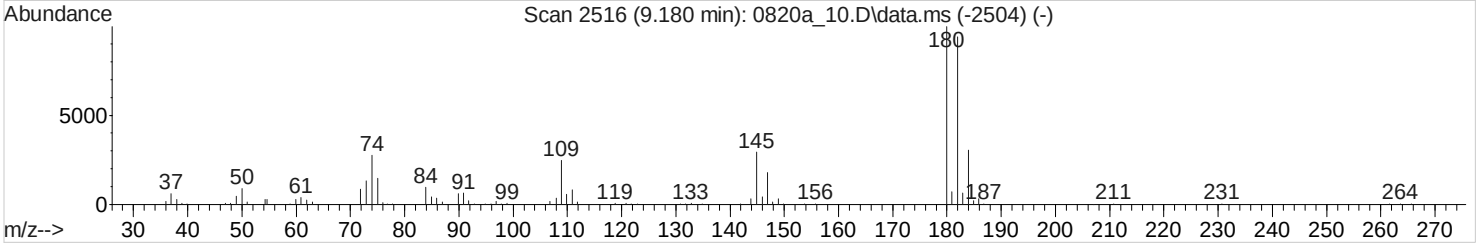
Ion	Exp%	Act%
88.00	100	100
58.00	67.40	30.98#
43.00	0.00	10.24#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 19A.D
Acq On : 15 Sep 2015 4:29 pm
Operator : 621
Sample : STD VMS 2.5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:50:17 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration







TIC: 0915_19A.D\data.ms

(97) ETHANOL (T)

2.199min (-0.019) 161.4369056 ppb

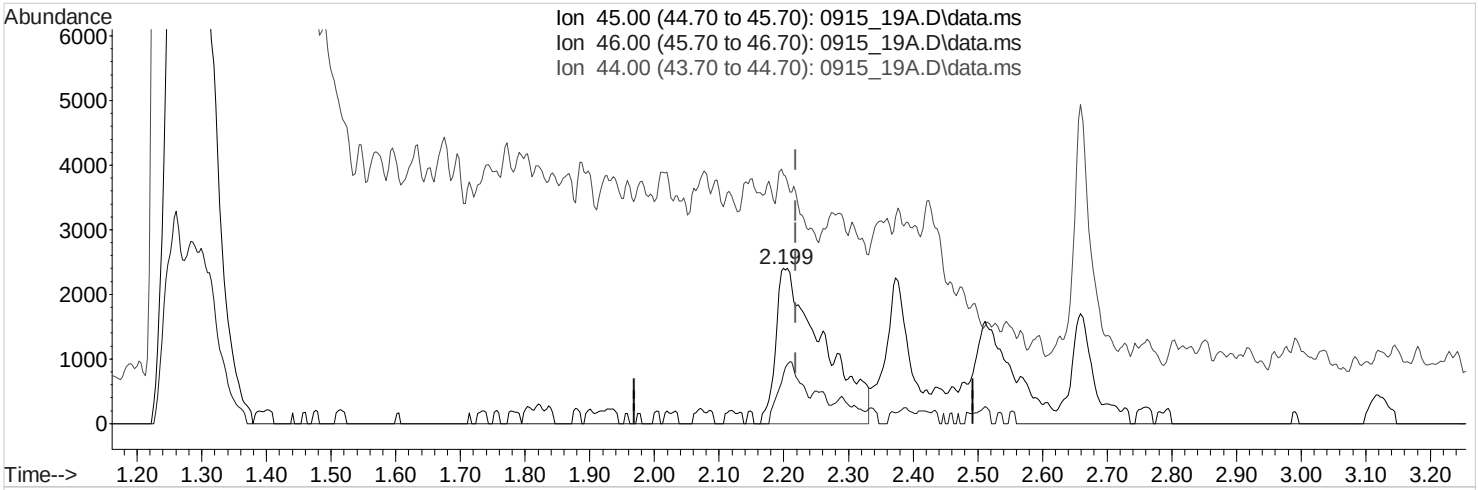
Qvalue = 48

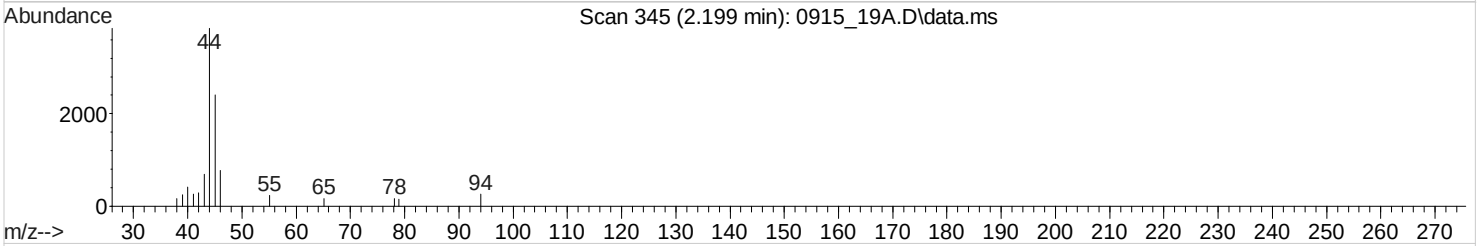
response 8060

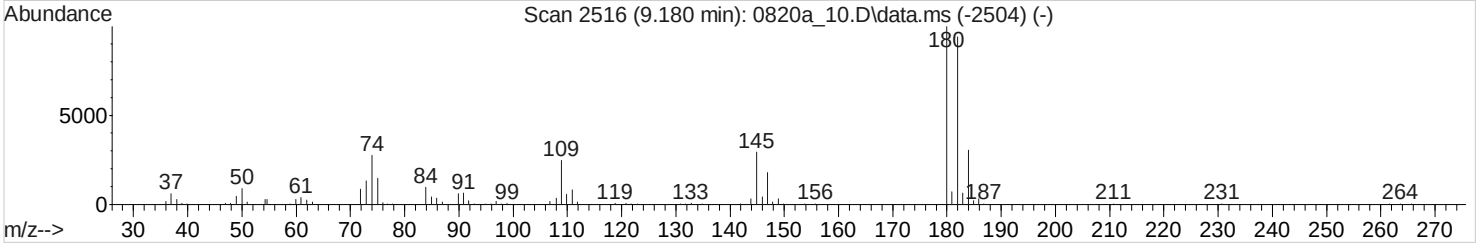
Ion	Exp%	Act%
45.00	100	100
46.00	10.00	29.43#
44.00	0.50	29.04#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 19A.D
Acq On : 15 Sep 2015 4:29 pm
Operator : 621
Sample : STD VMS 2.5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 19 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:50:17 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration







TIC: 0915_19A.D\data.ms

(97) ETHANOL (T)

2.199min (-0.019) 242.3556524 ppb m

response 12100

Ion	Exp%	Act%
45.00	100	100
46.00	10.00	19.60#
44.00	0.50	19.35#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 20A.D
Acq On : 15 Sep 2015 4:47 pm
Operator : 621
Sample : STD VMS 5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS25

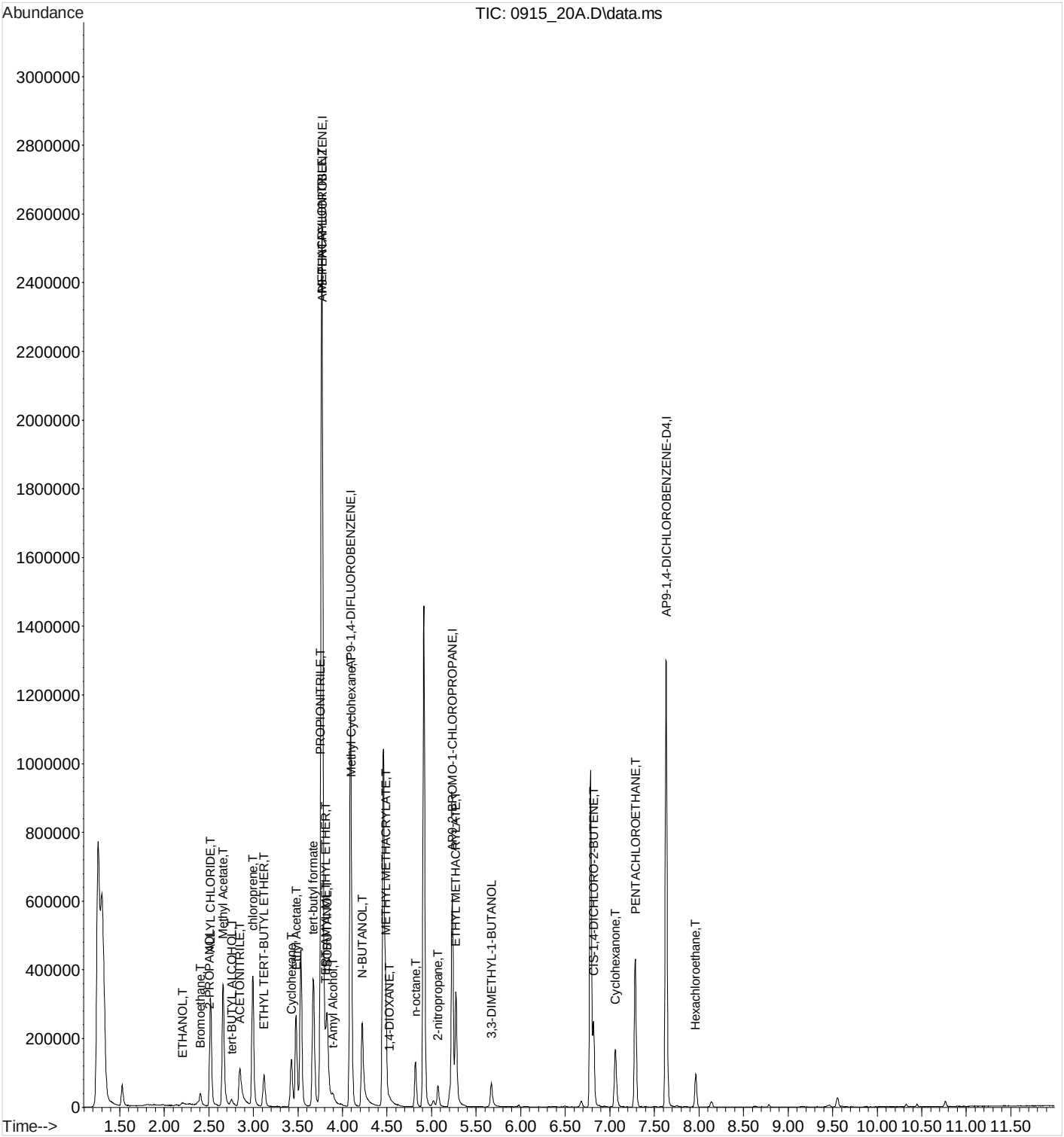
Quant Time: Sep 16 14:51:54 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-3.77
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.09
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.23
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-7.63
96) AP9-PENTAFLUOROBENZENE	3.775	168	402406	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.090	114	677560	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.231	79	111905	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.633	152	305103	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
97) ETHANOL	2.206	45	21669m	447.7264214	ppb		
98) Bromoethane	2.405	108	21128	5.3200973	ppb		98
99) 2-PROPANOL	2.508	45	5666	19.0910762	ppb	#	83
100) Methyl Acetate	2.659	43	426641	108.8599936	ppb	#	100
101) ACETONITRILE	2.849	41	179226	270.7364963	ppb		97
102) ALLYL CHLORIDE	2.521	76	60063	26.2014116	ppb		99
103) tert-BUTYL ALCOHOL	2.755	59	23013	23.9709312	ppb	#	93
104) chloroprene	2.993	53	191343	26.9995347	ppb		99
105) ETHYL TERT-BUTYL ETHER	3.119	59	77496	5.4012762	ppb		99
106) PROPIONITRILE	3.752	54	196079	275.2561421	ppb		98
107) Ethyl Acetate	3.479	43	281545	53.8265501	ppb		99
108) METHACRYLONITRILE	3.768	67	539787	268.3901942	ppb		99
109) Cyclohexane	3.427	56	63314	5.4935111	ppb		98
110) tert-butyl formate	3.672	59	170206	51.8219301	ppb		97
111) ISOBUTANOL	3.829	43	167820	492.8732367	ppb		97
112) t-Amyl Alcohol	3.894	59	10866	22.7824563	ppb		85
113) TERT-AMYL METHYL ETHER	3.810	73	81945	5.2535402	ppb		93
115) N-BUTANOL	4.222	56	155723	926.1524482	ppb		95
116) Methyl Cyclohexane	4.099	83	62522	5.5118161	ppb		98
117) 2-nitropropane	5.070	43	37929	24.3336507	ppb		95
118) METHYL METHACRYLATE	4.485	41	138257	25.4139627	ppb	#	85
119) 1,4-DIOXANE	4.527	88	26602m	511.6502155	ppb		
120) n-octane	4.820	85	20432	5.0204360	ppb		97
121) 3,3-DIMETHYL-1-BUTANOL	5.672	57	33892	44.4994398	ppb		97
123) ETHYL METHACRYLATE	5.273	69	148008	25.3542219	ppb		96
124) CIS-1,4-DICHLORO-2-BUTENE	6.816	53	43075	25.5191769	ppb		88
125) Cyclohexanone	7.061	55	72939	51.8264628	ppb		98
126) PENTACHLOROETHANE	7.286	117	81986	24.2971336	ppb		99
127) Hexachloroethane	7.961	117	19625	4.7382288	ppb		96

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

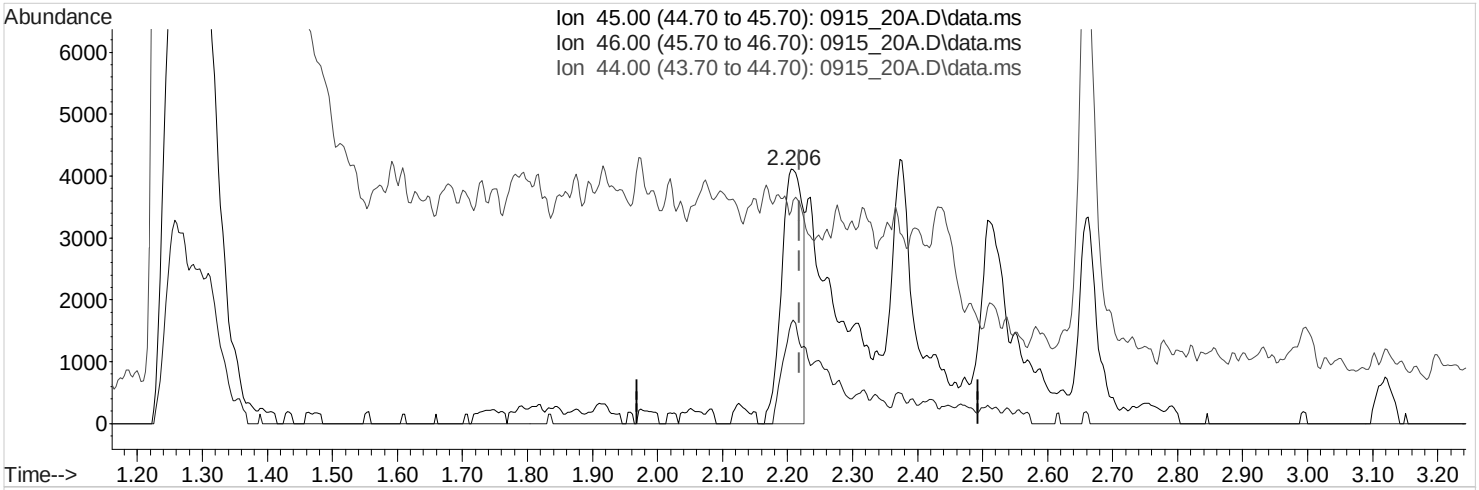
Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 20A.D
Acq On : 15 Sep 2015 4:47 pm
Operator : 621
Sample : STD VMS 5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS25

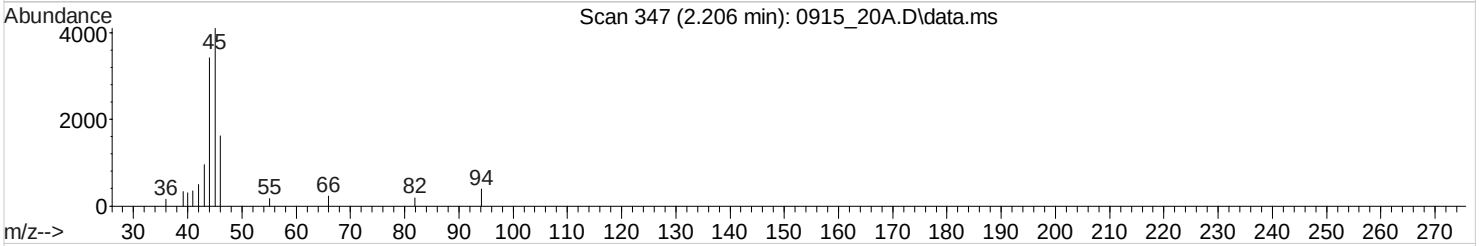
Quant Time: Sep 16 14:51:54 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration

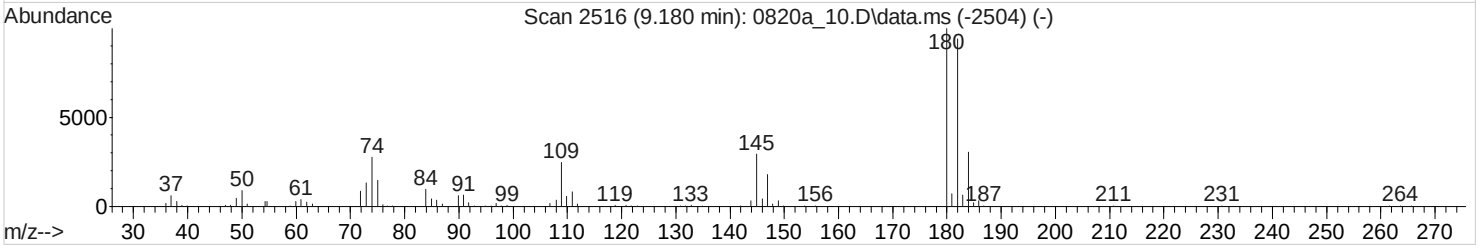


Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 20A.D
Acq On : 15 Sep 2015 4:47 pm
Operator : 621
Sample : STD VMS 5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:48:14 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration







TIC: 0915_20A.D\data.ms

(97) ETHANOL (T)

2.206min (-0.013) 189.6984759 ppb

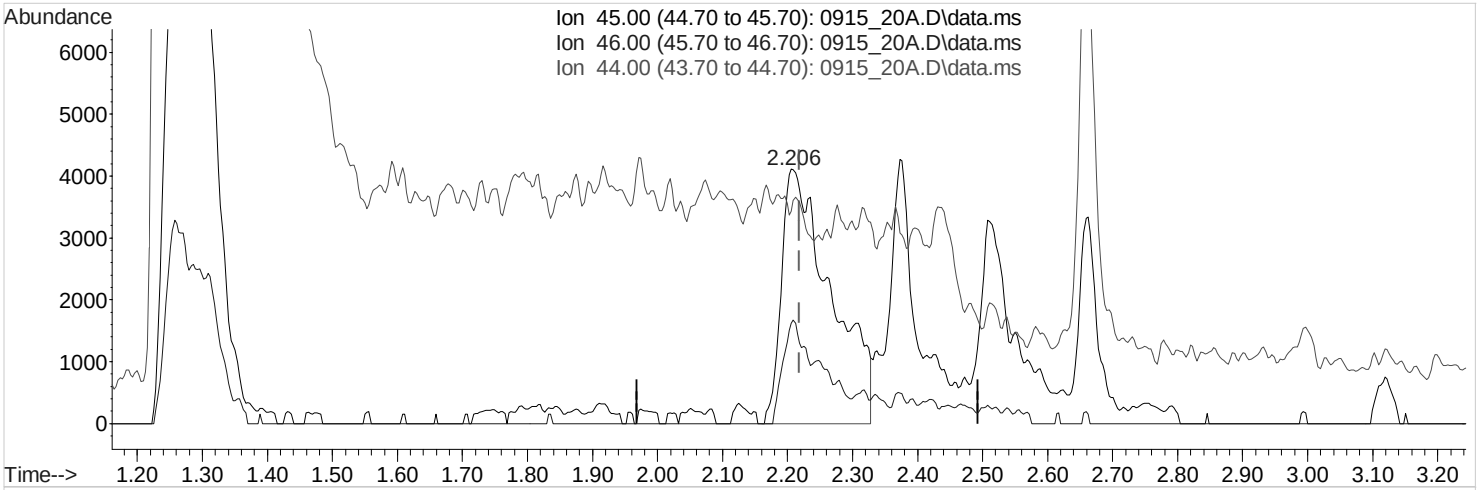
Qvalue = 10

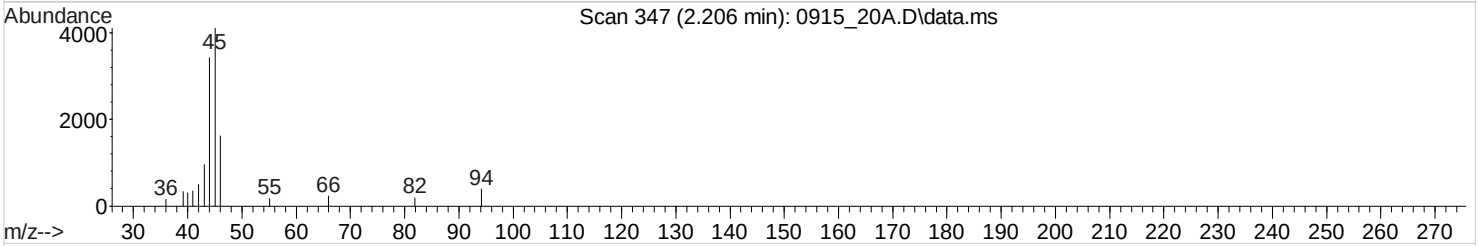
response 9181

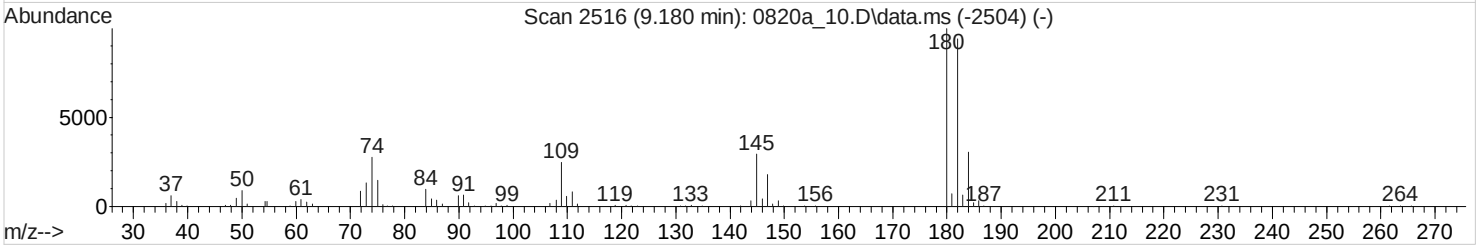
Ion	Exp%	Act%
45.00	100	100
46.00	10.00	44.80#
44.00	0.50	0.00#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 20A.D
Acq On : 15 Sep 2015 4:47 pm
Operator : 621
Sample : STD VMS 5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:48:14 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration







TIC: 0915_20A.D\data.ms

(97) ETHANOL (T)

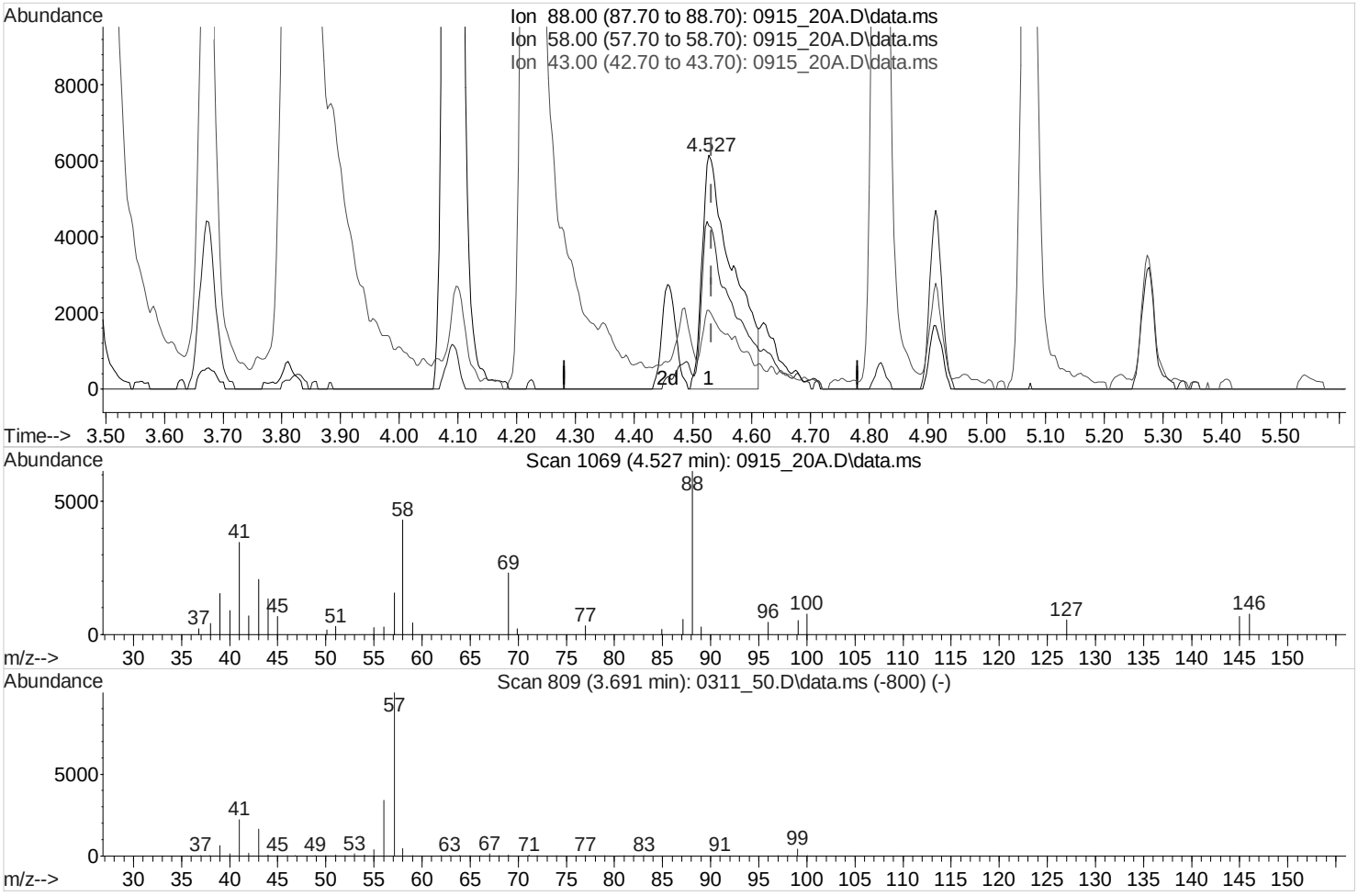
2.206min (-0.013) 447.7264214 ppb m

response 21669

Ion	Exp%	Act%
45.00	100	100
46.00	10.00	18.98#
44.00	0.50	0.00#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 20A.D
Acq On : 15 Sep 2015 4:47 pm
Operator : 621
Sample : STD VMS 5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:48:14 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration



TIC: 0915_20A.D\data.ms

(119) 1,4-DIOXANE (T)

4.527min (-0.003) 426.1379661 ppb

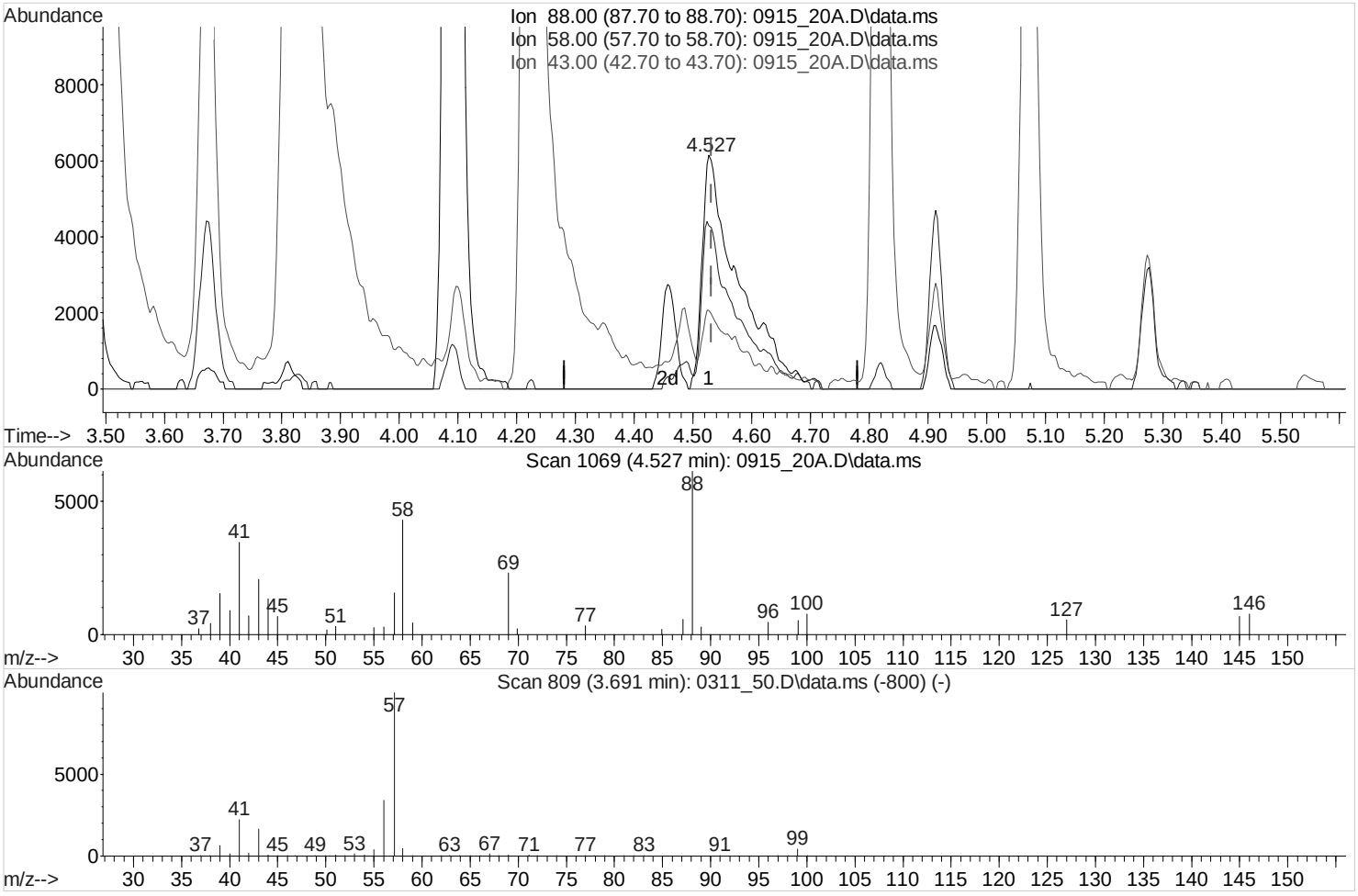
Qvalue = 91

response 22156

Ion	Exp%	Act%
88.00	100	100
58.00	67.40	59.96
43.00	0.00	13.25#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 20A.D
Acq On : 15 Sep 2015 4:47 pm
Operator : 621
Sample : STD VMS 5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 20 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:48:14 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration



TIC: 0915_20A.D\data.ms

(119) 1,4-DIOXANE (T)

4.527min (-0.003) 511.6502155 ppb m

response 26602

Ion	Exp%	Act%
88.00	100	100
58.00	67.40	49.94#
43.00	0.00	11.04#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 21A.D
Acq On : 15 Sep 2015 5:05 pm
Operator : 621
Sample : STD VMS 7.5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS25

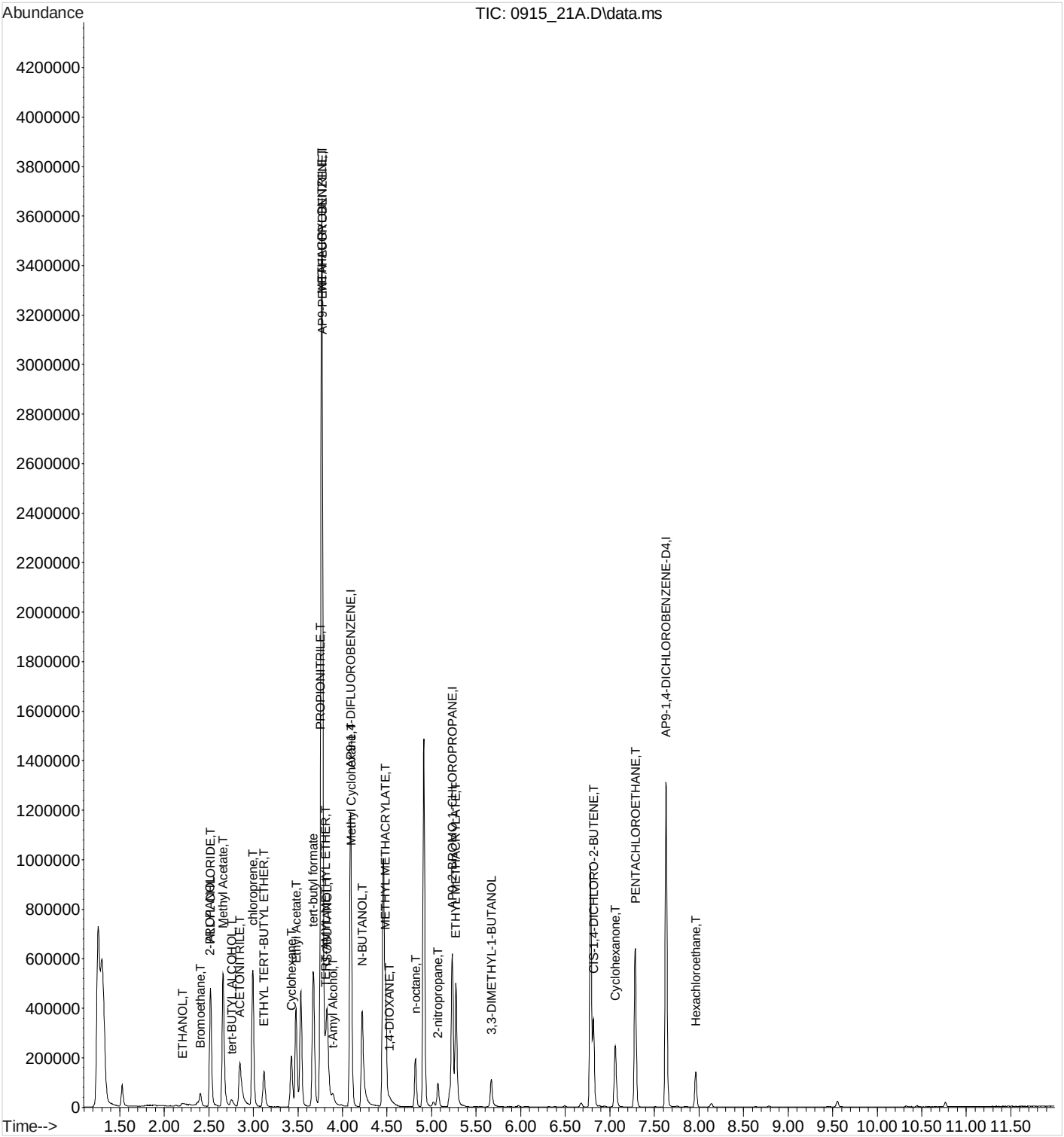
Quant Time: Sep 16 14:52:26 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-3.77
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.09
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.23
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-7.63
96) AP9-PENTAFLUOROBENZENE	3.775	168	402914	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.090	114	661493	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.231	79	112600	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	306299	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
97) ETHANOL	2.206	45	34946m	721.1463612	ppb		
98) Bromoethane	2.405	108	31127	7.8279951	ppb		98
99) 2-PROPANOL	2.514	45	10773	36.2528864	ppb		99
100) Methyl Acetate	2.659	43	629121	160.3215812	ppb	#	100
101) ACETONITRILE	2.849	41	260775	393.4267050	ppb		99
102) ALLYL CHLORIDE	2.521	76	91438	39.8379037	ppb		98
103) tert-BUTYL ALCOHOL	2.756	59	37109	38.6049512	ppb		97
104) chloroprene	2.993	53	280815	39.5745598	ppb		99
105) ETHYL TERT-BUTYL ETHER	3.119	59	116374	8.1007486	ppb		99
106) PROPIONITRILE	3.752	54	284503	398.8824008	ppb		99
107) Ethyl Acetate	3.479	43	415162	79.2717437	ppb		100
108) METHACRYLONITRILE	3.765	67	795534	395.0527221	ppb		99
109) Cyclohexane	3.428	56	93975	8.1435671	ppb		100
110) tert-butyl formate	3.672	59	250950	76.3093946	ppb		98
111) ISOBUTANOL	3.829	43	258649	758.6726232	ppb		97
112) t-Amyl Alcohol	3.894	59	16711	34.9933382	ppb		93
113) TERT-AMYL METHYL ETHER	3.810	73	120961	7.7451004	ppb		97
115) N-BUTANOL	4.222	56	239087	1456.4922781	ppb		100
116) Methyl Cyclohexane	4.100	83	87197	7.8738276	ppb		98
117) 2-nitropropane	5.071	43	58357	38.3487613	ppb		97
118) METHYL METHACRYLATE	4.482	41	199996	37.6555569	ppb		91
119) 1,4-DIOXANE	4.527	88	37054	729.9892691	ppb	#	93
120) n-octane	4.820	85	31056	7.8162525	ppb		97
121) 3,3-DIMETHYL-1-BUTANOL	5.669	57	53380	71.7890856	ppb		96
123) ETHYL METHACRYLATE	5.273	69	223227	38.0034409	ppb		98
124) CIS-1,4-DICHLORO-2-BUTENE	6.816	53	63878	37.6100393	ppb		92
125) Cyclohexanone	7.061	55	102672	72.5028180	ppb		99
126) PENTACHLOROETHANE	7.286	117	122244	36.0042689	ppb		98
127) Hexachloroethane	7.964	117	30953	7.4271161	ppb		97

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

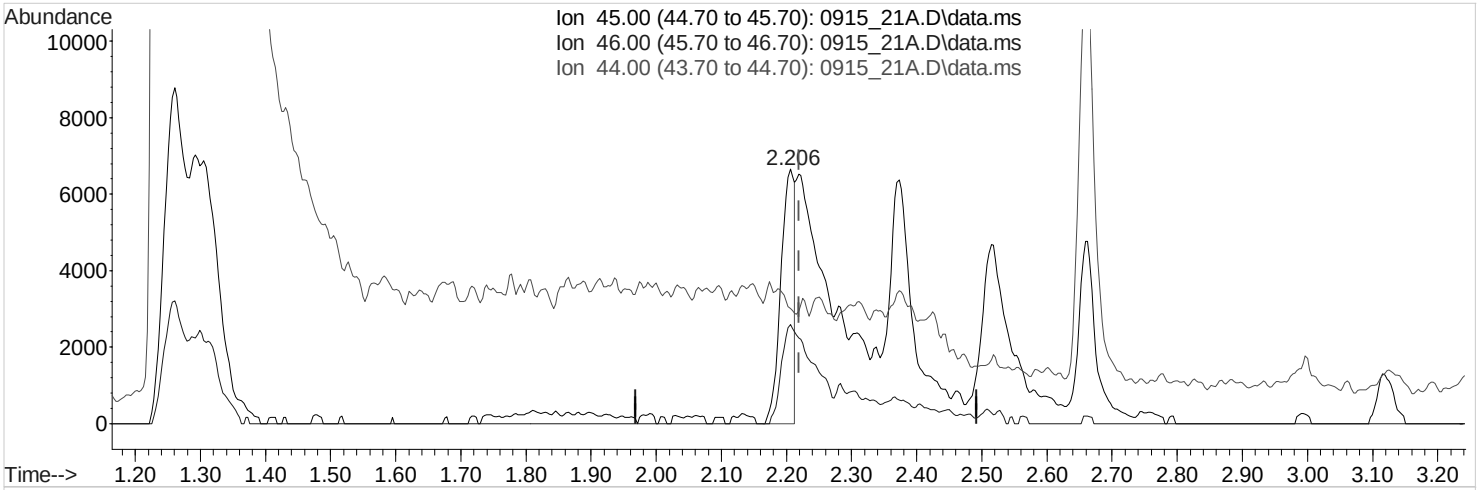
Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 21A.D
Acq On : 15 Sep 2015 5:05 pm
Operator : 621
Sample : STD VMS 7.5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS25

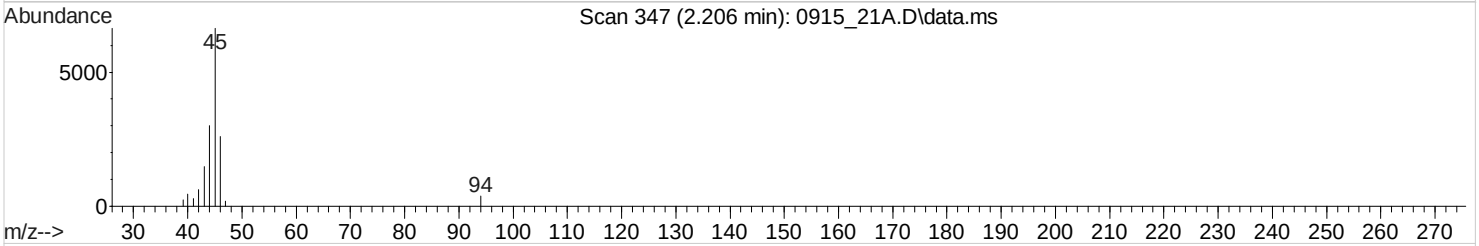
Quant Time: Sep 16 14:52:26 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration

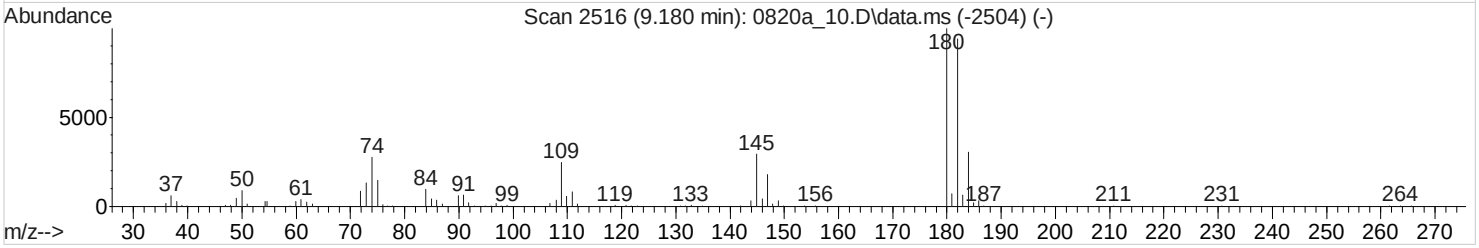


Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 21A.D
Acq On : 15 Sep 2015 5:05 pm
Operator : 621
Sample : STD VMS 7.5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:48:19 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration







TIC: 0915_21A.D\data.ms

(97) ETHANOL (T)

2.206min (-0.013) 199.4677710 ppb

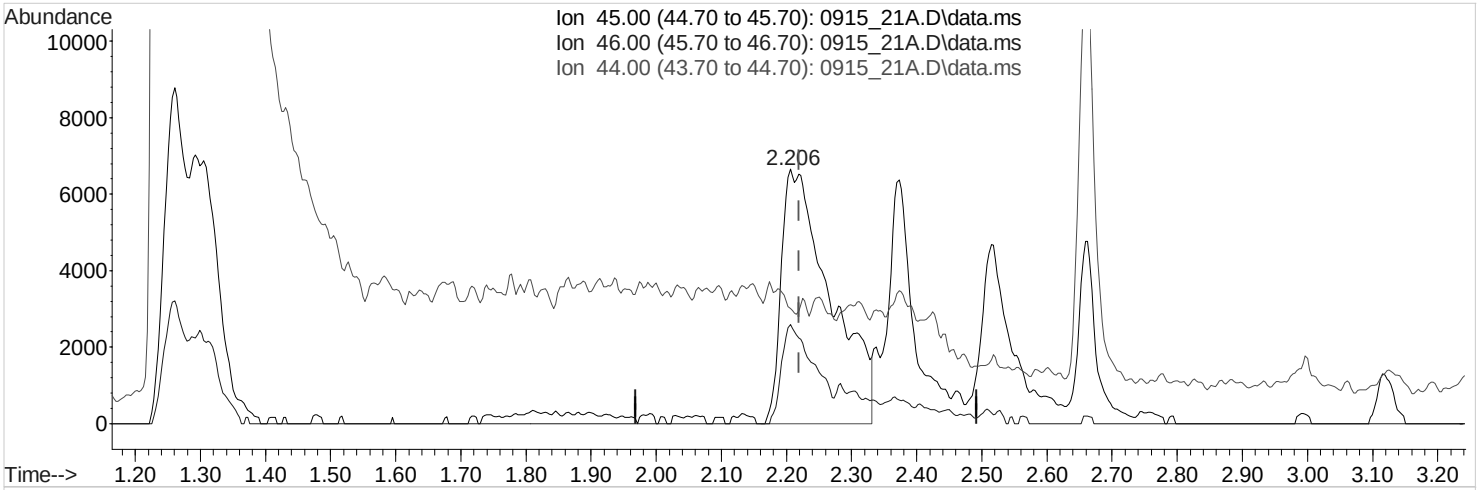
Qvalue = 1

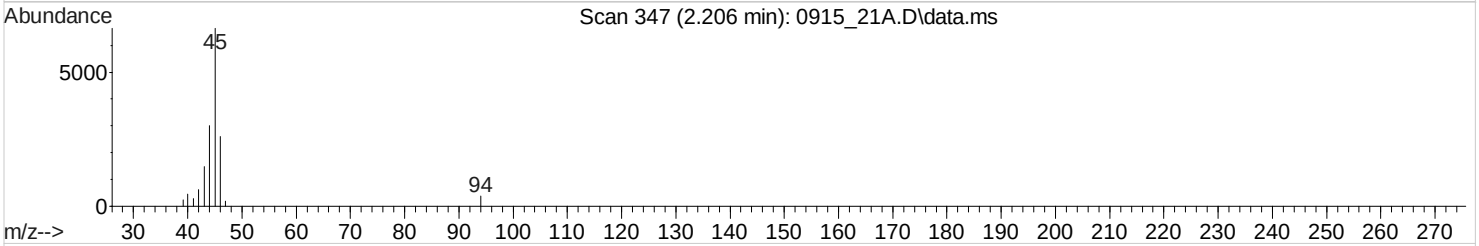
response 9666

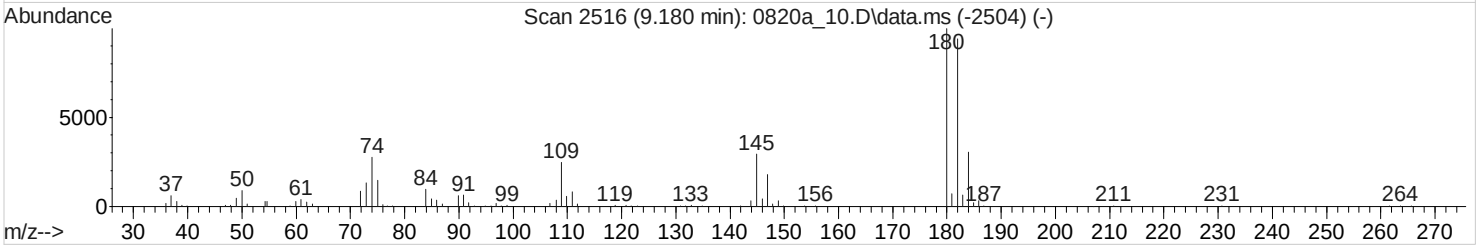
Ion	Exp%	Act%
45.00	100	100
46.00	10.00	94.30#
44.00	0.50	0.00#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 21A.D
Acq On : 15 Sep 2015 5:05 pm
Operator : 621
Sample : STD VMS 7.5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 21 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:48:19 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration







TIC: 0915_21A.D\data.ms

(97) ETHANOL (T)

2.206min (-0.013) 721.1463612 ppb m

response 34946

Ion	Exp%	Act%
45.00	100	100
46.00	10.00	26.08#
44.00	0.50	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 22A.D
Acq On : 15 Sep 2015 5:24 pm
Operator : 621
Sample : MSTD VMS 10a ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:53:17 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration

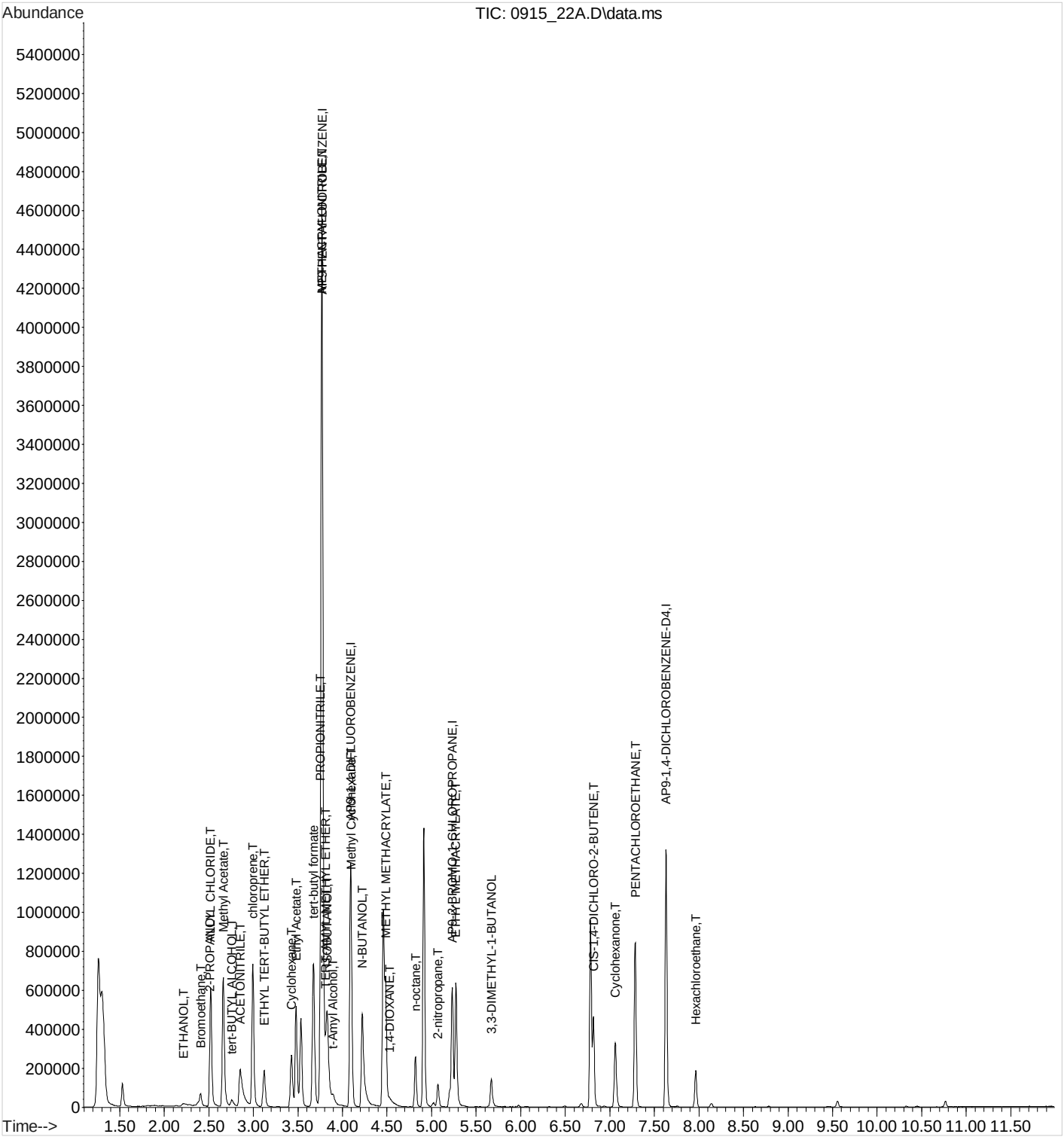
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-3.77
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.09
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.23
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-7.63
96) AP9-PENTAFLUOROBENZENE	3.775	168	407802	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.090	114	663519	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.231	79	110460	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	304311	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
97) ETHANOL	2.216	45	46386m	945.7489639	ppb		
98) Bromoethane	2.408	108	39886	9.9105275	ppb		97
99) 2-PROPANOL	2.511	45	12884	42.8370596	ppb		95
100) Methyl Acetate	2.662	43	780310	196.4662631	ppb	#	100
101) ACETONITRILE	2.852	41	335202	499.6518381	ppb		100
102) ALLYL CHLORIDE	2.521	76	116631	50.2049761	ppb		100
103) tert-BUTYL ALCOHOL	2.759	59	47671	48.9983015	ppb		97
104) chloroprene	2.994	53	369015	51.3810314	ppb		100
105) ETHYL TERT-BUTYL ETHER	3.122	59	154069	10.5961345	ppb		99
106) PROPIONITRILE	3.752	54	368110	509.9160091	ppb		99
107) Ethyl Acetate	3.479	43	542113	102.2712689	ppb		100
108) METHACRYLONITRILE	3.769	67	1040808	510.6577666	ppb		100
109) Cyclohexane	3.428	56	120090	10.2818721	ppb		99
110) tert-butyl formate	3.675	59	342006	102.7513507	ppb		99
111) ISOBUTANOL	3.830	43	344415	998.1335954	ppb		97
112) t-Amyl Alcohol	3.894	59	22544	46.6419734	ppb		98
113) TERT-AMYL METHYL ETHER	3.810	73	163901	10.3687474	ppb		95
115) N-BUTANOL	4.222	56	312462	1897.6727504	ppb		99
116) Methyl Cyclohexane	4.100	83	114747	10.3299350	ppb		98
117) 2-nitropropane	5.071	43	74375	48.7256062	ppb		100
118) METHYL METHACRYLATE	4.486	41	258415	48.5062135	ppb		94
119) 1,4-DIOXANE	4.531	88	49379	969.8298762	ppb	#	97
120) n-octane	4.820	85	39591	9.9339375	ppb		98
121) 3,3-DIMETHYL-1-BUTANOL	5.669	57	68222	91.4694755	ppb		99
123) ETHYL METHACRYLATE	5.273	69	286528	49.7252091	ppb		100
124) CIS-1,4-DICHLORO-2-BUTENE	6.817	53	83403	50.0573093	ppb		98
125) Cyclohexanone	7.061	55	136103	97.9724378	ppb		99
126) PENTACHLOROETHANE	7.286	117	162228	48.7063528	ppb		98
127) Hexachloroethane	7.964	117	38950	9.5270464	ppb		98

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

Quantitation Report (QT Reviewed)

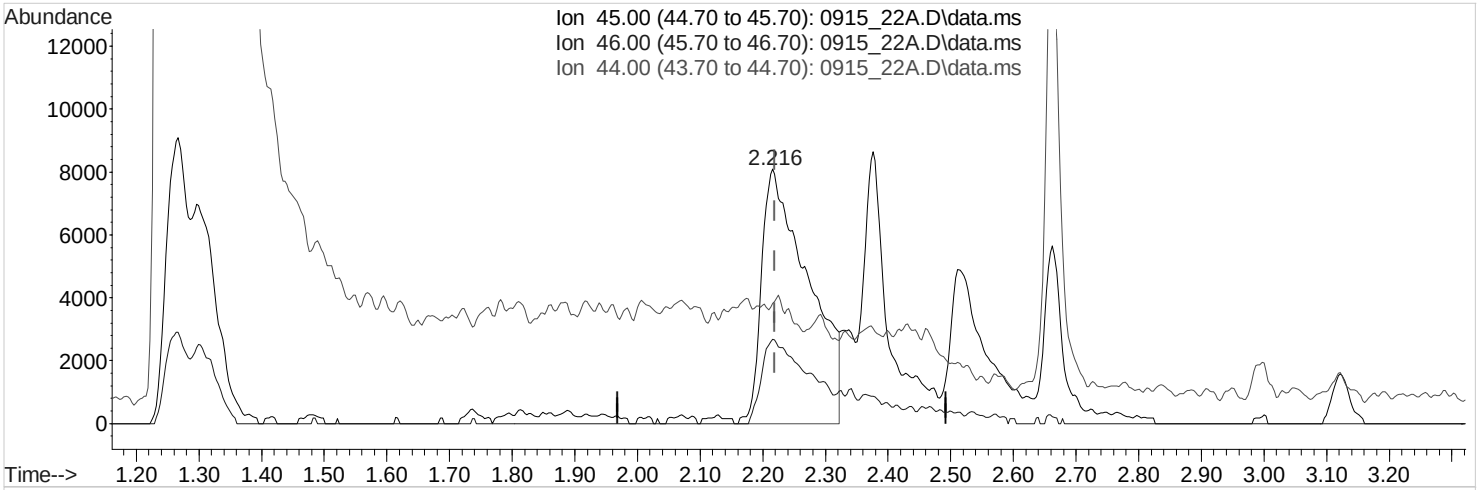
Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 22A.D
Acq On : 15 Sep 2015 5:24 pm
Operator : 621
Sample : MSTD VMS 10a ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS25

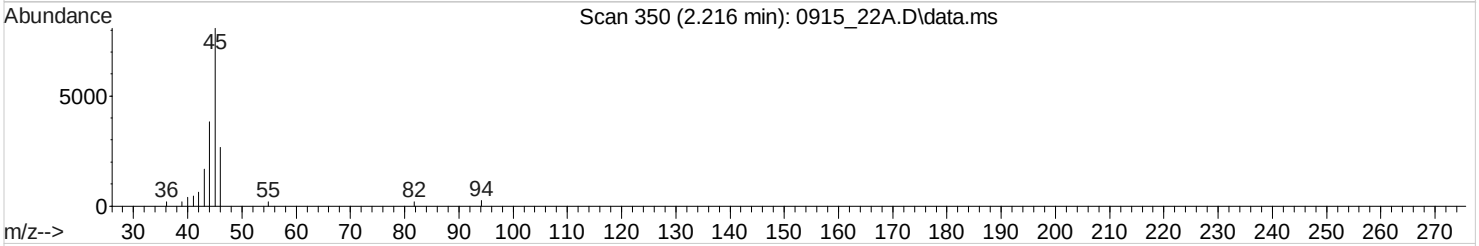
Quant Time: Sep 16 14:53:17 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration

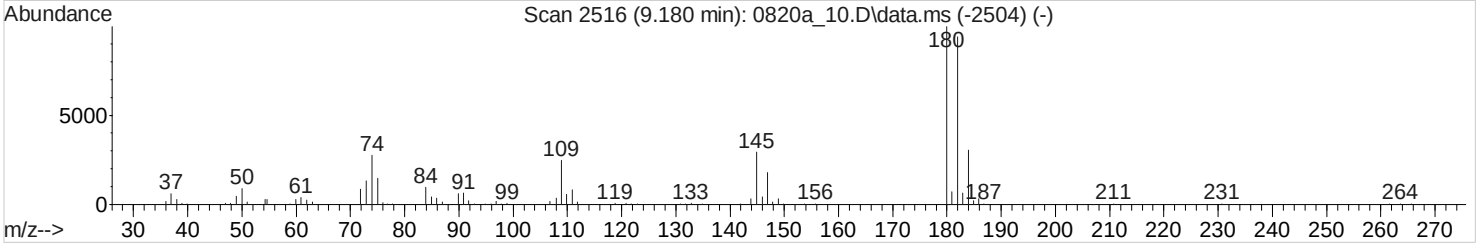


Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 22A.D
Acq On : 15 Sep 2015 5:24 pm
Operator : 621
Sample : MSTD VMS 10a ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:48:24 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration







TIC: 0915_22A.D\data.ms

(97) ETHANOL (T)

2.216min (-0.003) 855.2640352 ppb

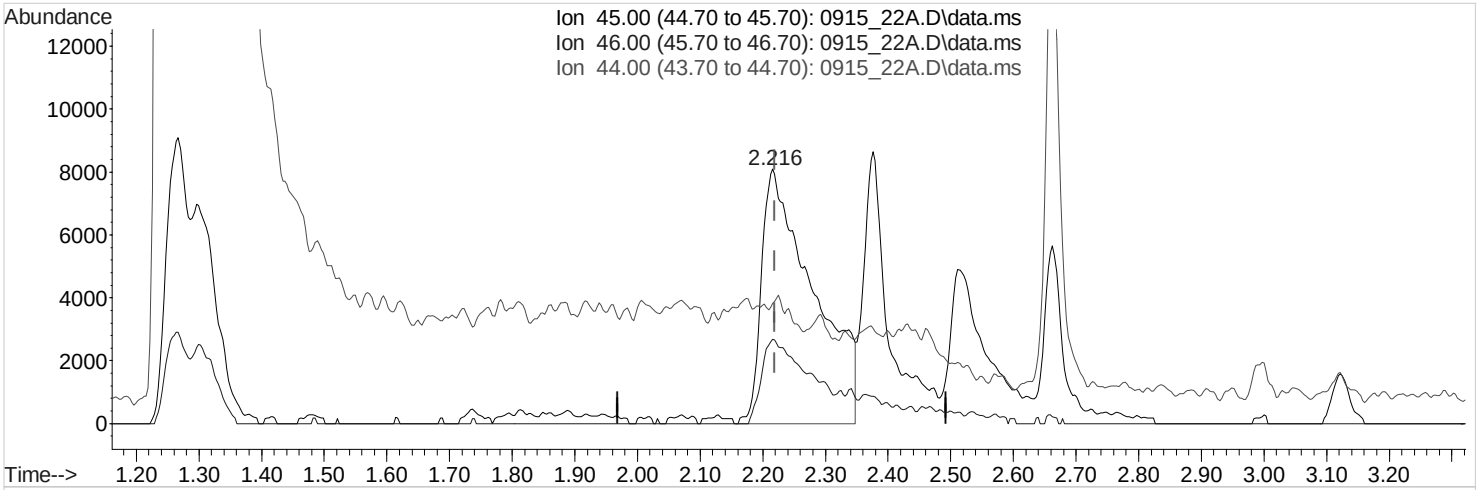
Qvalue = 42

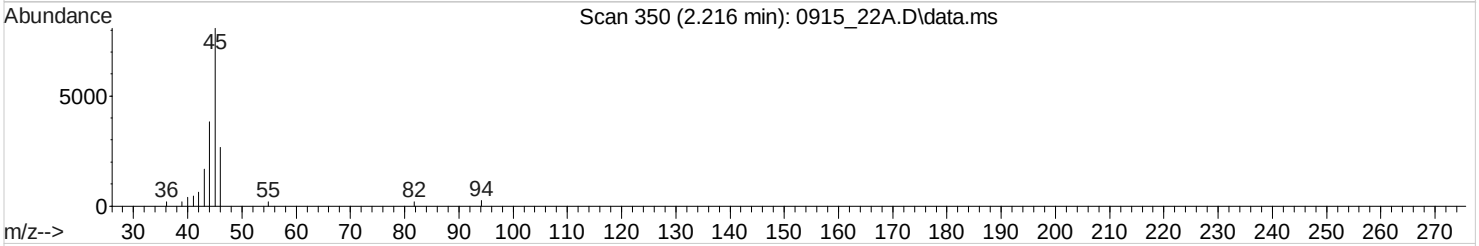
response 41948

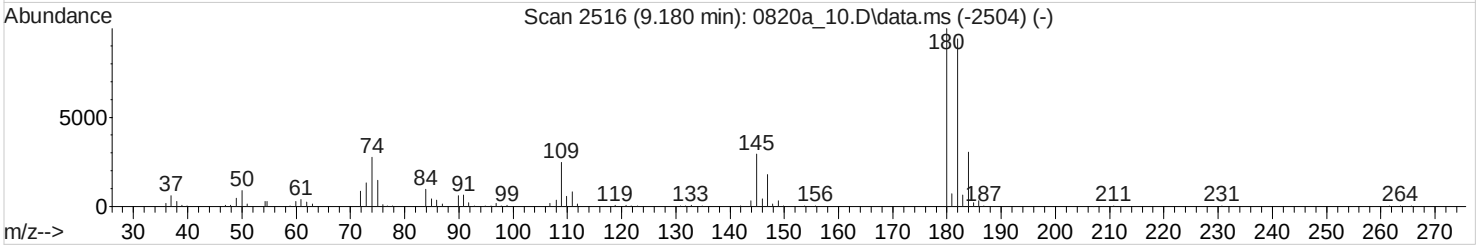
Ion	Exp%	Act%
45.00	100	100
46.00	10.00	32.69#
44.00	0.50	0.00#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 22A.D
Acq On : 15 Sep 2015 5:24 pm
Operator : 621
Sample : MSTD VMS 10a ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 22 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:48:24 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration







TIC: 0915_22A.D\data.ms

(97) ETHANOL (T)

2.216min (-0.003) 945.7489639 ppb m

response 46386

Ion	Exp%	Act%
45.00	100	100
46.00	10.00	29.56#
44.00	0.50	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 23A.D
Acq On : 15 Sep 2015 5:42 pm
Operator : 621
Sample : STD VMS 12.5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:53:56 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration

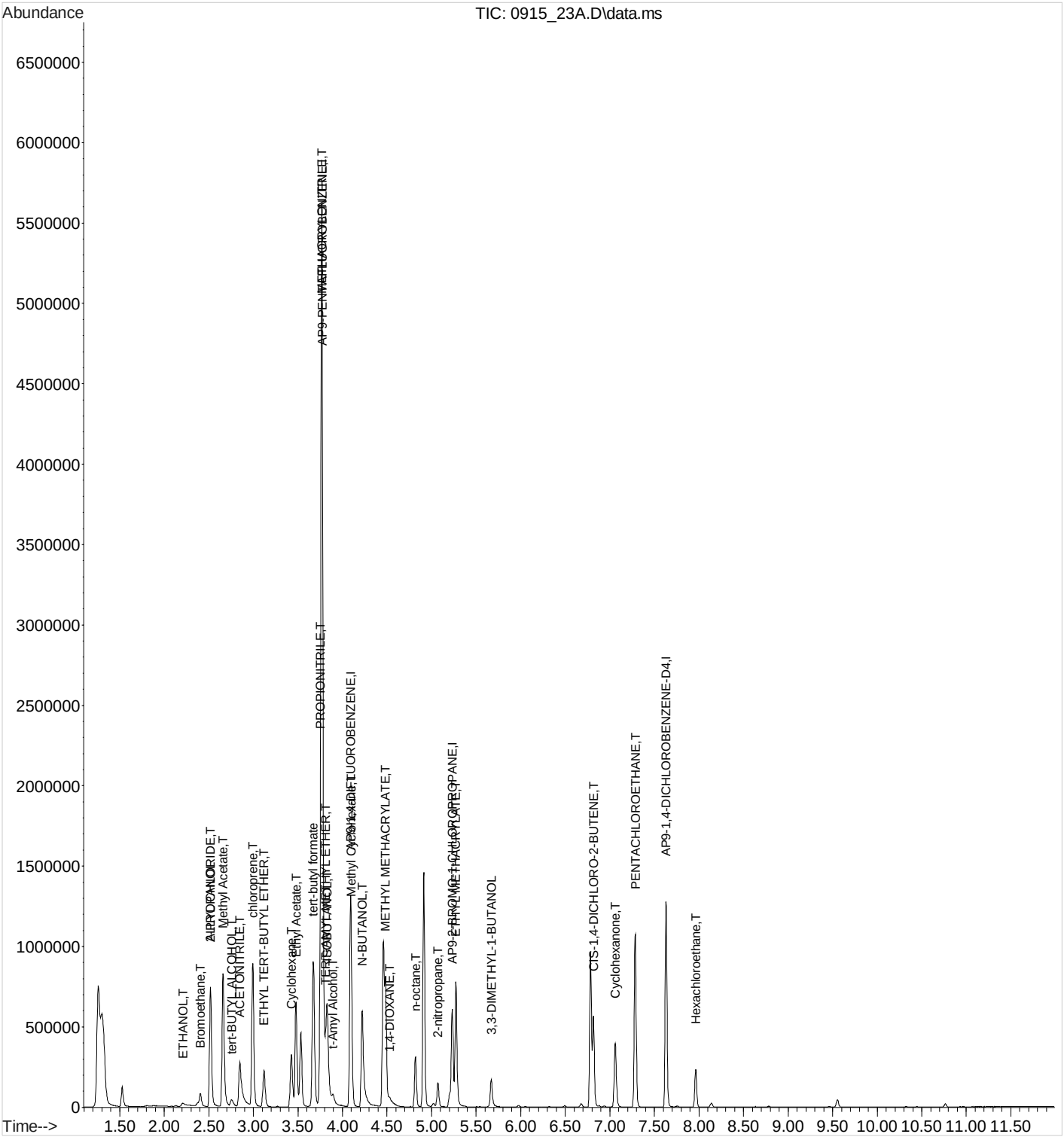
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-3.77
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.09
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.23
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-7.63
96) AP9-PENTAFLUOROBENZENE	3.775	168	412927	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.090	114	667043	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.231	79	109906	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	296281	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
97) ETHANOL	2.209	45	56795m	1143.6025756	ppb		
98) Bromoethane	2.405	108	49646	12.1825056	ppb		96
99) 2-PROPANOL	2.518	45	16145	53.0130823	ppb		93
100) Methyl Acetate	2.659	43	978296	243.2580160	ppb	#	100
101) ACETONITRILE	2.849	41	406055	597.7530781	ppb		98
102) ALLYL CHLORIDE	2.521	76	143166	60.8623514	ppb		99
103) tert-BUTYL ALCOHOL	2.756	59	56913	57.7715890	ppb		97
104) chloroprene	2.993	53	455181	62.5920238	ppb		99
105) ETHYL TERT-BUTYL ETHER	3.119	59	185308	12.5864263	ppb		99
106) PROPIONITRILE	3.752	54	455005	622.4626123	ppb		98
107) Ethyl Acetate	3.479	43	678554	126.4224807	ppb		100
108) METHACRYLONITRILE	3.768	67	1304576	632.1276318	ppb		100
109) Cyclohexane	3.428	56	151302	12.7934034	ppb		99
110) tert-butyl formate	3.672	59	421737	125.1329230	ppb		100
111) ISOBUTANOL	3.829	43	418124	1196.7068656	ppb		97
112) t-Amyl Alcohol	3.894	59	26288	53.7130183	ppb		88
113) TERT-AMYL METHYL ETHER	3.810	73	205415	12.8337305	ppb		92
115) N-BUTANOL	4.222	56	359703	2173.0399246	ppb		98
116) Methyl Cyclohexane	4.099	83	141535	12.6741730	ppb		99
117) 2-nitropropane	5.071	43	93103	60.6727221	ppb		97
118) METHYL METHACRYLATE	4.482	41	324575	60.6030181	ppb		96
119) 1,4-DIOXANE	4.530	88	60879	1189.3791219	ppb	#	96
120) n-octane	4.820	85	49013	12.2330788	ppb		99
121) 3,3-DIMETHYL-1-BUTANOL	5.669	57	81163	108.2453790	ppb		97
123) ETHYL METHACRYLATE	5.273	69	347636	60.6342389	ppb		98
124) CIS-1,4-DICHLORO-2-BUTENE	6.816	53	103644	62.5192316	ppb		96
125) Cyclohexanone	7.061	55	162579	117.6208467	ppb		100
126) PENTACHLOROETHANE	7.286	117	204201	61.6171061	ppb		99
127) Hexachloroethane	7.964	117	49358	12.1336652	ppb		99

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

Quantitation Report (QT Reviewed)

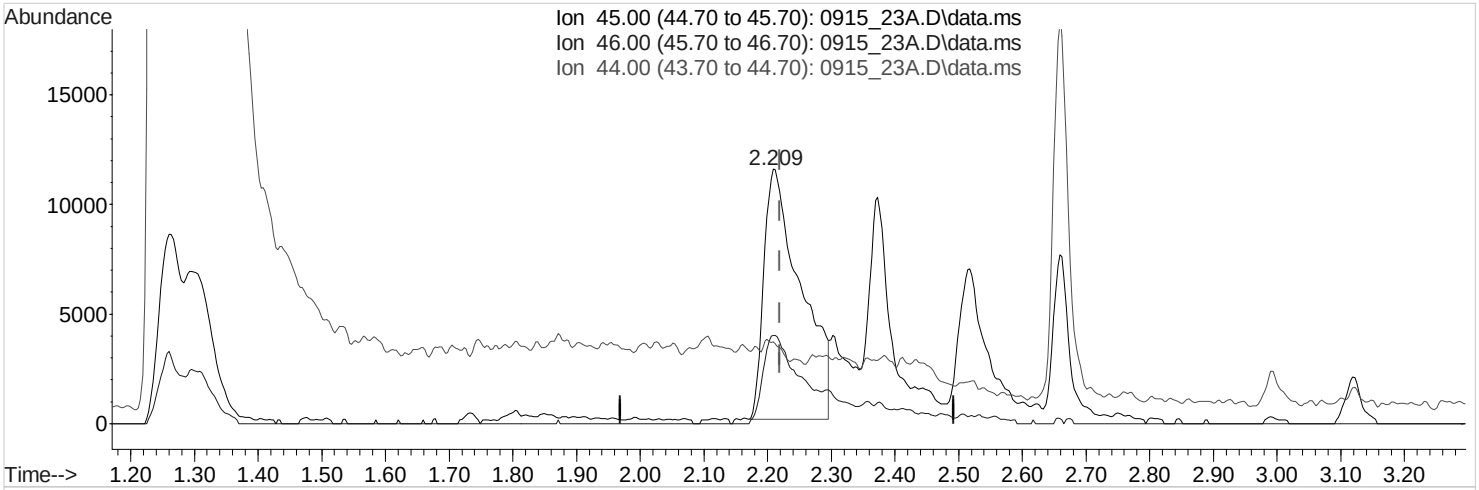
Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 23A.D
Acq On : 15 Sep 2015 5:42 pm
Operator : 621
Sample : STD VMS 12.5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS25

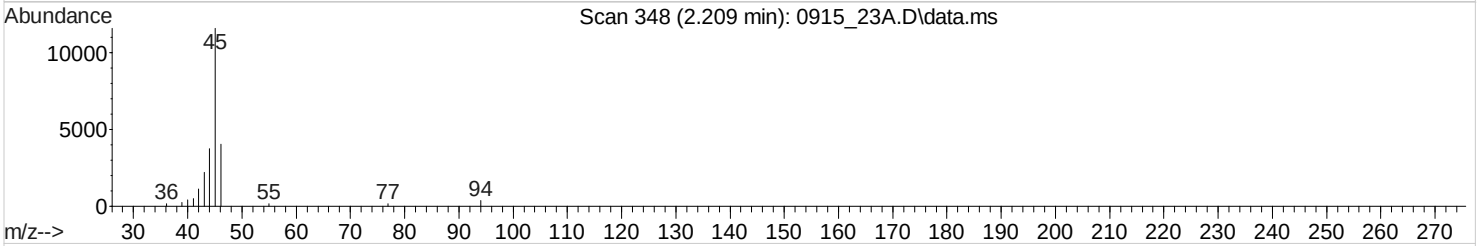
Quant Time: Sep 16 14:53:56 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration

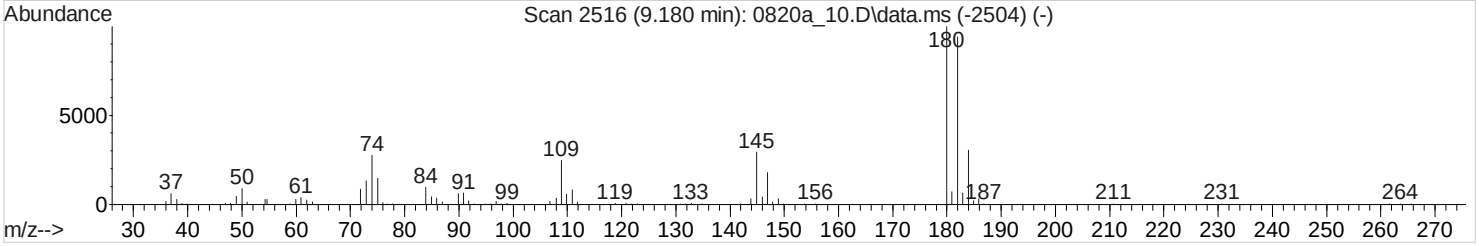


Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 23A.D
Acq On : 15 Sep 2015 5:42 pm
Operator : 621
Sample : STD VMS 12.5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:48:29 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration







TIC: 0915_23A.D\data.ms

(97) ETHANOL (T)

2.209min (-0.010) 932.1785587 ppb

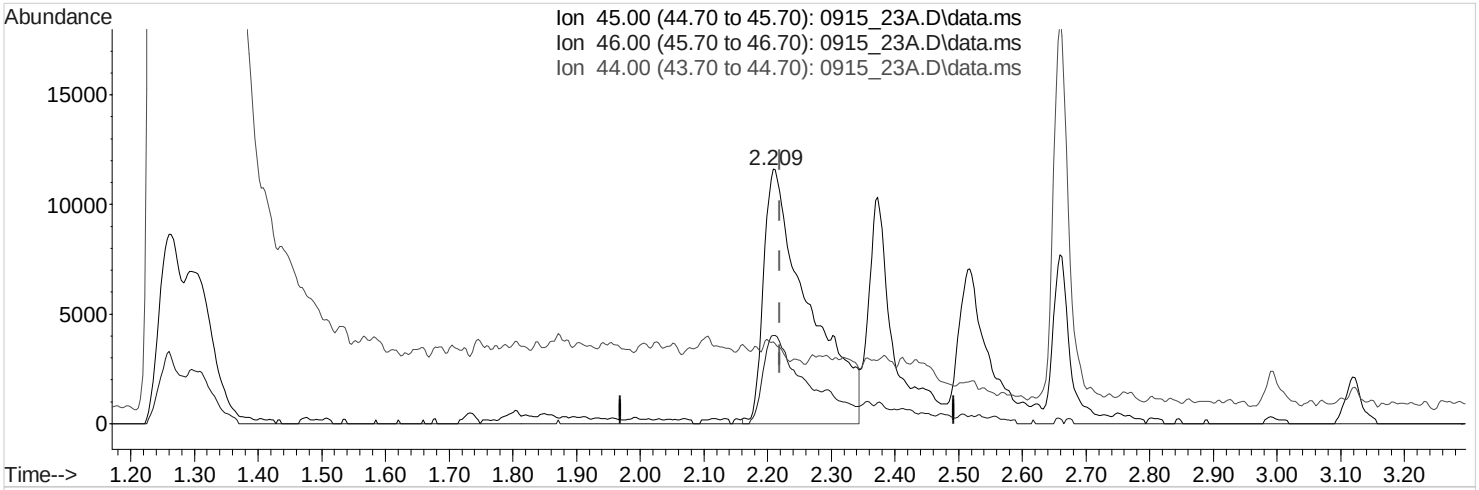
Qvalue = 39

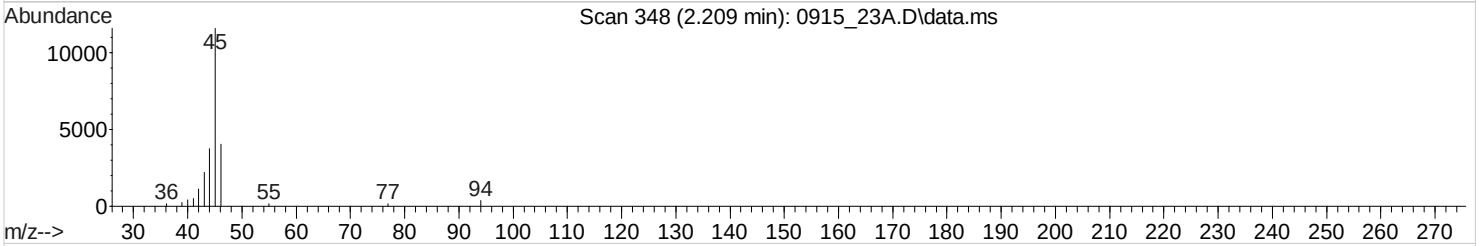
response 46295

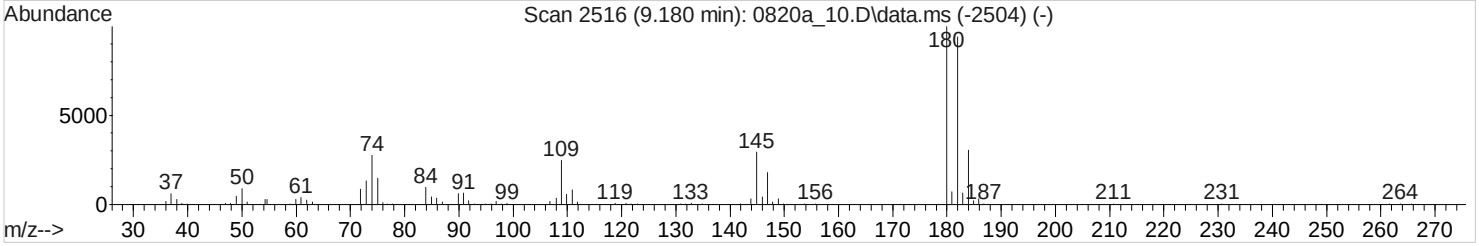
Ion	Exp%	Act%
45.00	100	100
46.00	10.00	33.74#
44.00	0.50	3.58#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 23A.D
Acq On : 15 Sep 2015 5:42 pm
Operator : 621
Sample : STD VMS 12.5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 23 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:48:29 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration







TIC: 0915_23A.D\data.ms

(97) ETHANOL (T)

2.209min (-0.010) 1143.6025756 ppb m

response 56795

Ion	Exp%	Act%
45.00	100	100
46.00	10.00	27.50#
44.00	0.50	2.92#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 24A.D
Acq On : 15 Sep 2015 6:00 pm
Operator : 621
Sample : STD VMS 15 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS25

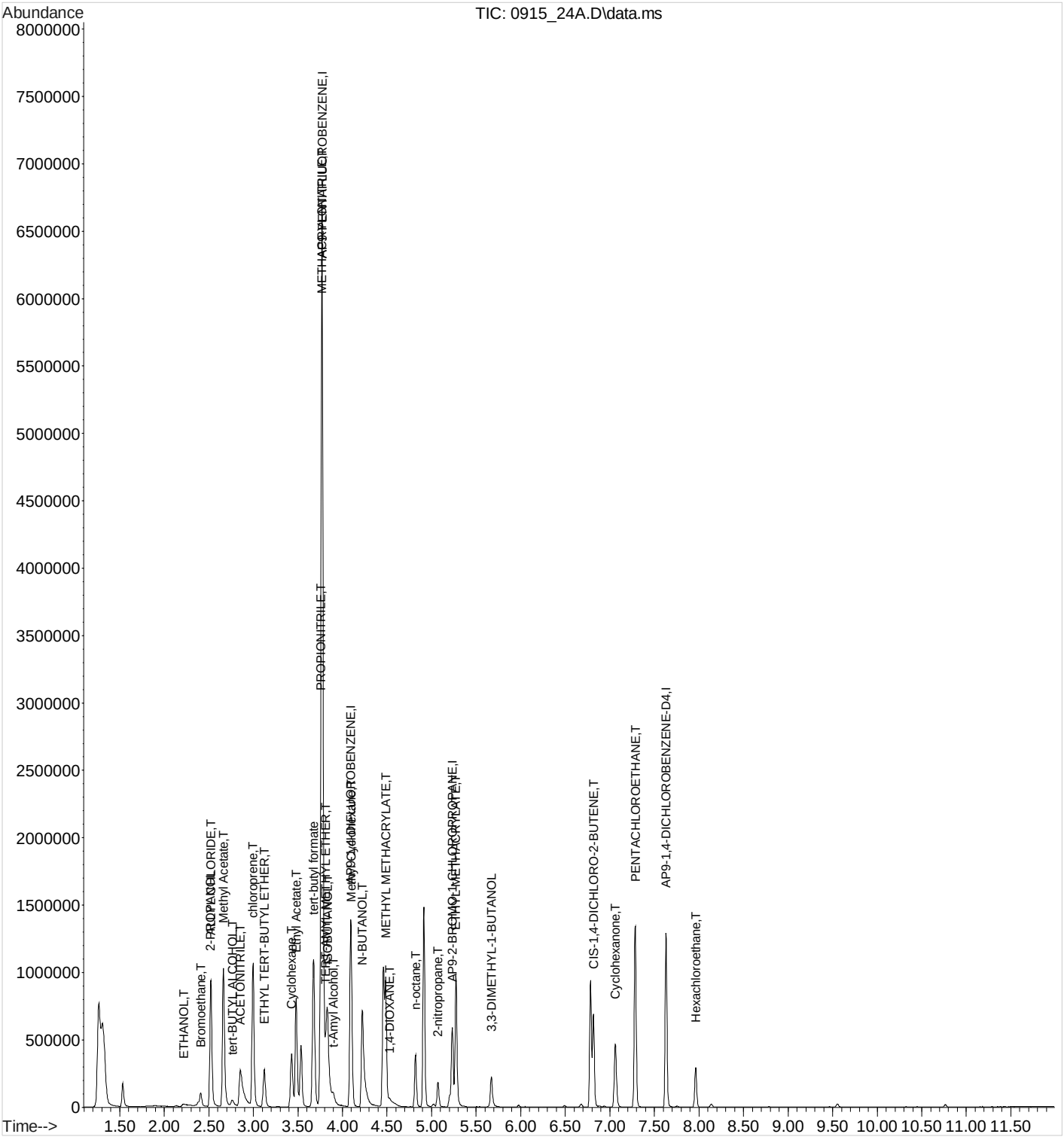
Quant Time: Sep 16 14:54:31 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-3.77
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.09
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.23
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-7.63
96) AP9-PENTAFLUOROBENZENE	3.775	168	410747	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.090	114	665582	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.231	79	105162	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	299496	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
97) ETHANOL	2.219	45	64451m	1304.6486279	ppb		
98) Bromoethane	2.408	108	60910	15.0258772	ppb		97
99) 2-PROPANOL	2.518	45	22227	73.3710505	ppb		100
100) Methyl Acetate	2.662	43	1208927	302.2009606	ppb	#	100
101) ACETONITRILE	2.855	41	508836	753.0324118	ppb		99
102) ALLYL CHLORIDE	2.524	76	182690	78.0768876	ppb		98
103) tert-BUTYL ALCOHOL	2.765	59	72499	73.9833055	ppb		98
104) chloroprene	2.997	53	542229	74.9577410	ppb		99
105) ETHYL TERT-BUTYL ETHER	3.122	59	226147	15.4418020	ppb		99
106) PROPIONITRILE	3.756	54	557100	766.1770539	ppb		99
107) Ethyl Acetate	3.479	43	828638	155.2042535	ppb		100
108) METHACRYLONITRILE	3.768	67	1572965	766.2197291	ppb		100
109) Cyclohexane	3.428	56	182573	15.5194690	ppb		98
110) tert-butyl formate	3.675	59	508255	151.6039181	ppb		99
111) ISOBUTANOL	3.833	43	541267	1557.3747059	ppb	#	99
112) t-Amyl Alcohol	3.897	59	32897	67.5736203	ppb	#	84
113) TERT-AMYL METHYL ETHER	3.813	73	249795	15.6892934	ppb		99
115) N-BUTANOL	4.222	56	493378	2987.1407633	ppb		100
116) Methyl Cyclohexane	4.100	83	166835	14.9725306	ppb		98
117) 2-nitropropane	5.071	43	111362	72.7309214	ppb		96
118) METHYL METHACRYLATE	4.485	41	387203	72.4553007	ppb		98
119) 1,4-DIOXANE	4.530	88	78105	1529.2690528	ppb	#	91
120) n-octane	4.820	85	61384	15.3543676	ppb		98
121) 3,3-DIMETHYL-1-BUTANOL	5.672	57	107902	144.2225039	ppb		97
123) ETHYL METHACRYLATE	5.273	69	434195	79.1481138	ppb		100
124) CIS-1,4-DICHLORO-2-BUTENE	6.817	53	126340	79.6476384	ppb		96
125) Cyclohexanone	7.061	55	198448	150.0476316	ppb		100
126) PENTACHLOROETHANE	7.286	117	253383	79.9067508	ppb		99
127) Hexachloroethane	7.964	117	61393	15.7730571	ppb		98

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

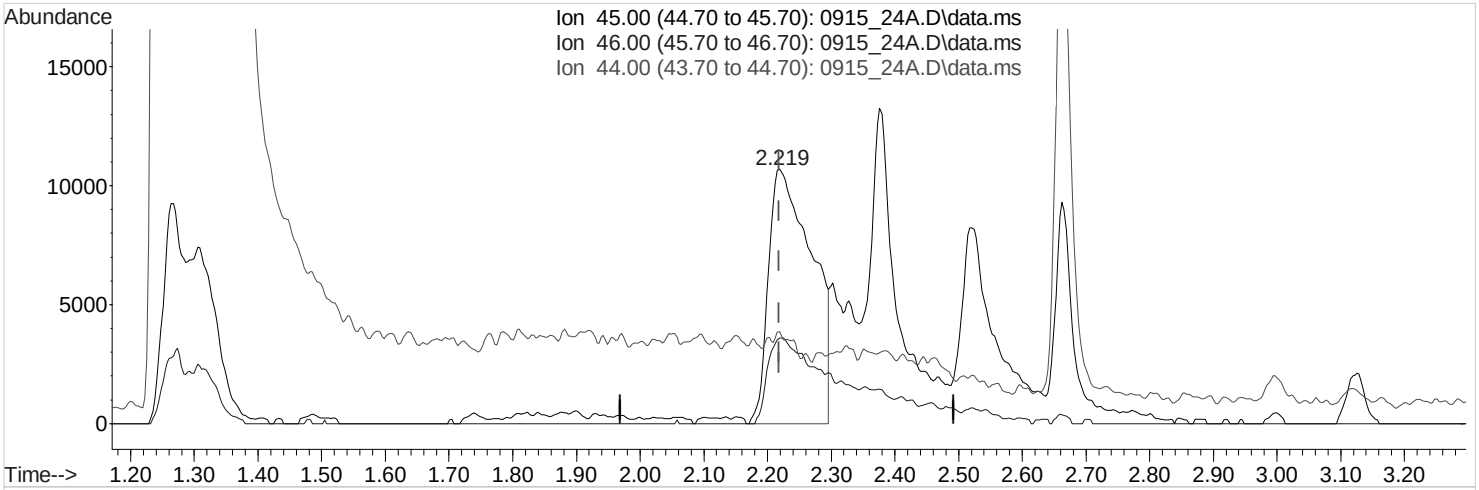
Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 24A.D
Acq On : 15 Sep 2015 6:00 pm
Operator : 621
Sample : STD VMS 15 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS25

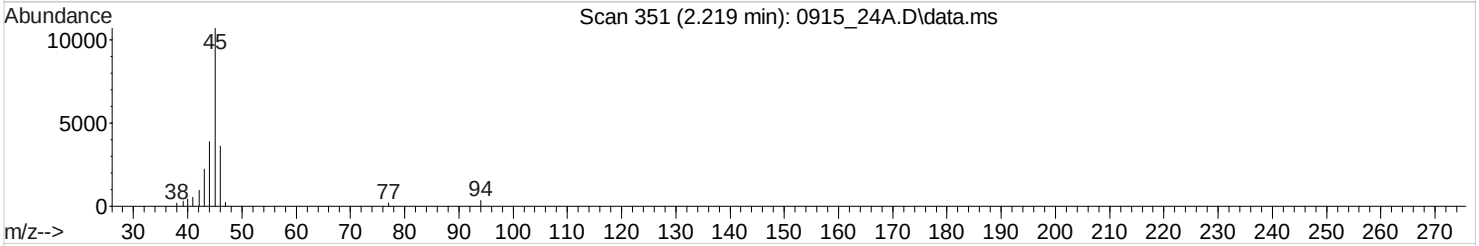
Quant Time: Sep 16 14:54:31 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration

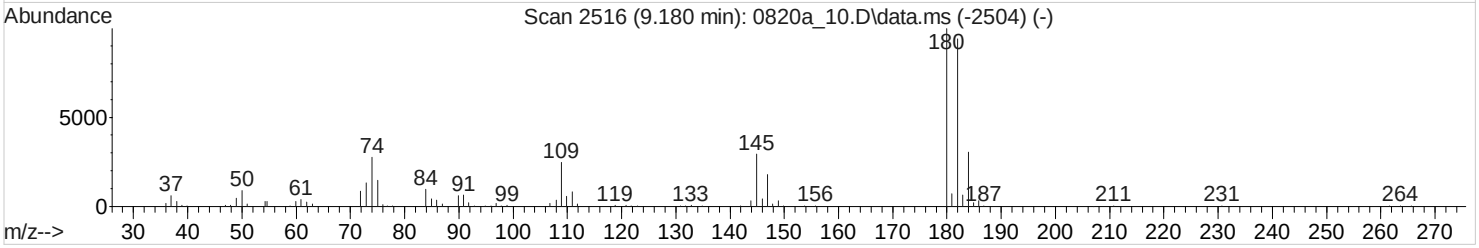


Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 24A.D
Acq On : 15 Sep 2015 6:00 pm
Operator : 621
Sample : STD VMS 15 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:48:34 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration







TIC: 0915_24A.D\data.ms

(97) ETHANOL (T)

2.219min (+0.000) 1031.2333354 ppb

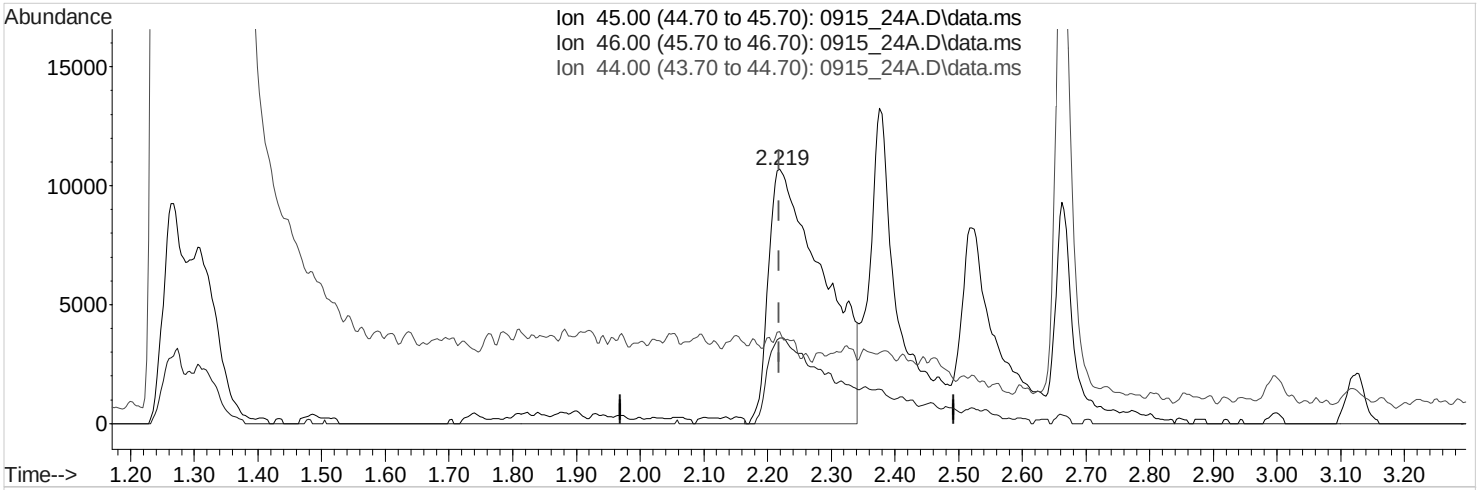
Qvalue = 29

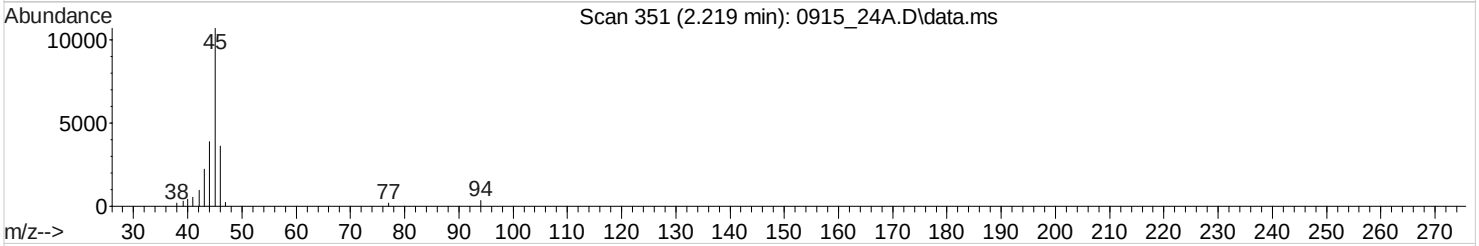
response 50944

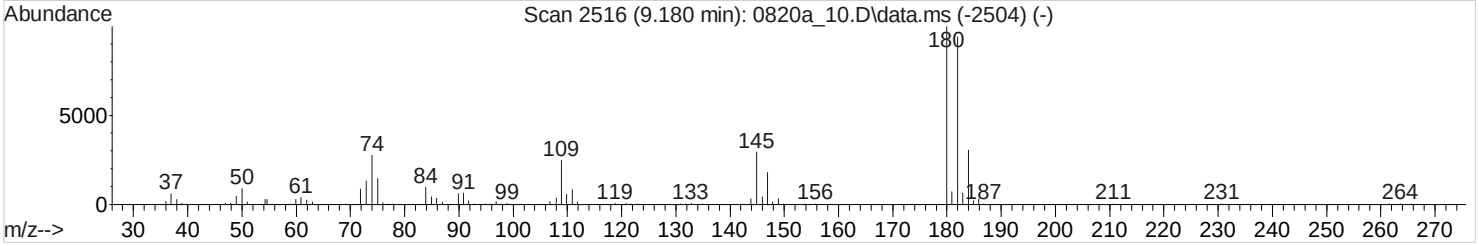
Ion	Exp%	Act%
45.00	100	100
46.00	10.00	37.37#
44.00	0.50	3.59#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 24A.D
Acq On : 15 Sep 2015 6:00 pm
Operator : 621
Sample : STD VMS 15 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 24 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:48:34 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration







TIC: 0915_24A.D\data.ms

(97) ETHANOL (T)

2.219min (+0.000) 1304.6486279 ppb m

response 64451

Ion	Exp%	Act%
45.00	100	100
46.00	10.00	29.54#
44.00	0.50	2.83#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 25A.D
Acq On : 15 Sep 2015 6:18 pm
Operator : 621
Sample : STD VMS 17.5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:55:07 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration

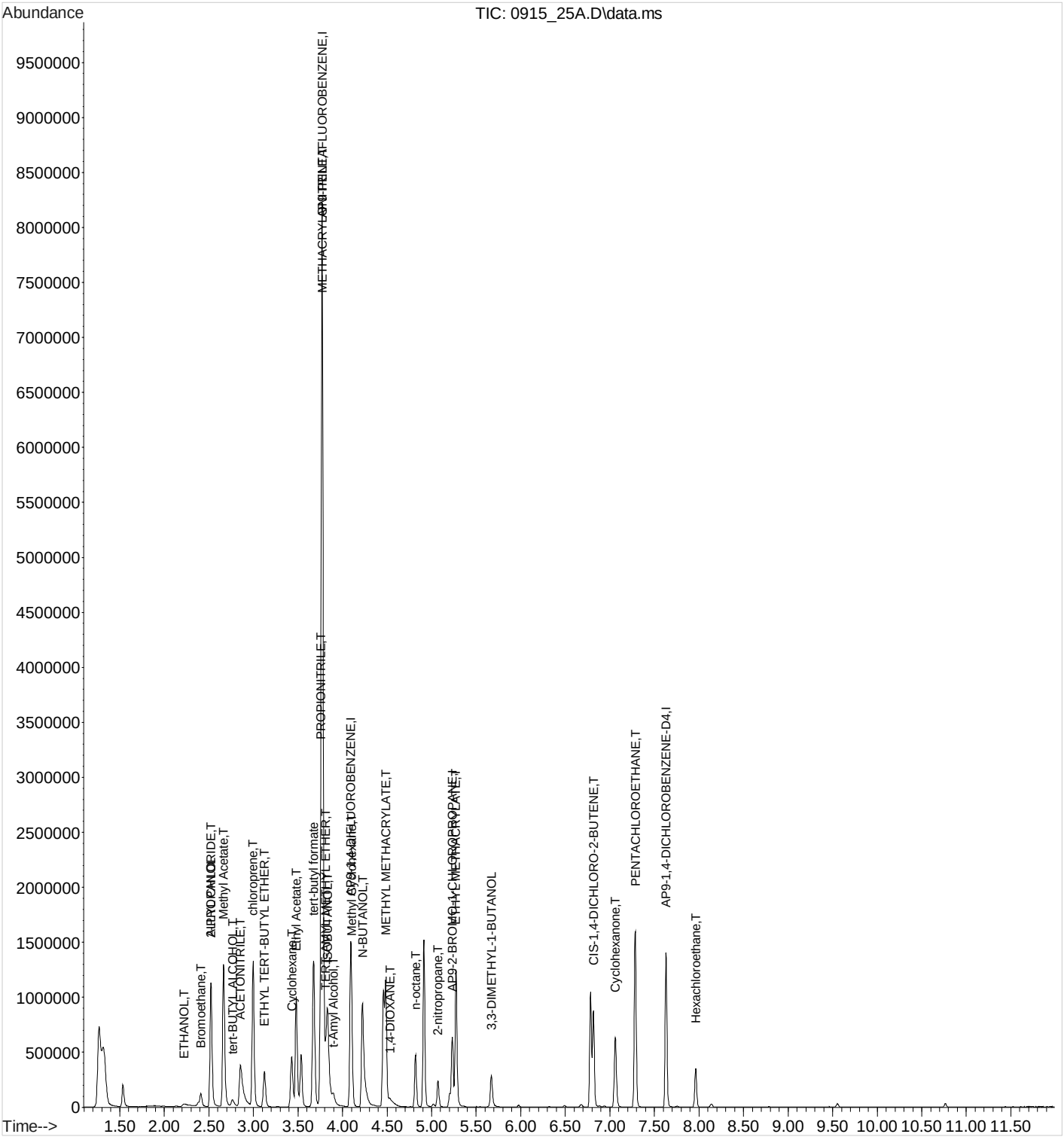
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-3.77
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.09
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.23
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-7.63
96) AP9-PENTAFLUOROBENZENE	3.775	168	433210	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.093	114	701659	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.231	79	115669	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	321552	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
97) ETHANOL	2.222	45	83501m	1602.6234951	ppb		
98) Bromoethane	2.411	108	72681	16.9999662	ppb		98
99) 2-PROPANOL	2.524	45	29098	91.0715974	ppb		100
100) Methyl Acetate	2.665	43	1517032	359.5559104	ppb	#	100
101) ACETONITRILE	2.855	41	637743	894.8648859	ppb		99
102) ALLYL CHLORIDE	2.524	76	219281	88.8555679	ppb		98
103) tert-BUTYL ALCOHOL	2.765	59	93087	90.0672030	ppb		98
104) chloroprene	2.997	53	675903	88.5919069	ppb		100
105) ETHYL TERT-BUTYL ETHER	3.125	59	266653	17.2635278	ppb		99
106) PROPIONITRILE	3.755	54	687771	896.8416511	ppb		99
107) Ethyl Acetate	3.482	43	1030166	182.9455765	ppb		100
108) METHACRYLONITRILE	3.771	67	1923463	888.3703078	ppb		100
109) Cyclohexane	3.431	56	216331	17.4355234	ppb		98
110) tert-butyl formate	3.675	59	612599	173.2530849	ppb		99
111) ISOBUTANOL	3.833	43	661819	1805.4968086	ppb		99
112) t-Amyl Alcohol	3.897	59	43967	85.6295483	ppb		91
113) TERT-AMYL METHYL ETHER	3.813	73	292512	17.4196433	ppb		96
115) N-BUTANOL	4.225	56	624019	3583.8447633	ppb		100
116) Methyl Cyclohexane	4.103	83	200818	17.0956710	ppb		98
117) 2-nitropropane	5.070	43	142767	88.4474608	ppb		98
118) METHYL METHACRYLATE	4.485	41	480310	85.2567055	ppb		99
119) 1,4-DIOXANE	4.533	88	95444	1772.6751781	ppb	#	98
120) n-octane	4.820	85	74241	17.6155428	ppb		98
121) 3,3-DIMETHYL-1-BUTANOL	5.672	57	136368	172.8985997	ppb		99
123) ETHYL METHACRYLATE	5.273	69	546486	90.5683901	ppb		97
124) CIS-1,4-DICHLORO-2-BUTENE	6.816	53	161456	92.5396975	ppb		94
125) Cyclohexanone	7.061	55	261632	179.8519437	ppb		99
126) PENTACHLOROETHANE	7.286	117	302392	86.6998111	ppb		100
127) Hexachloroethane	7.964	117	73649	17.2030610	ppb		99

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

Quantitation Report (QT Reviewed)

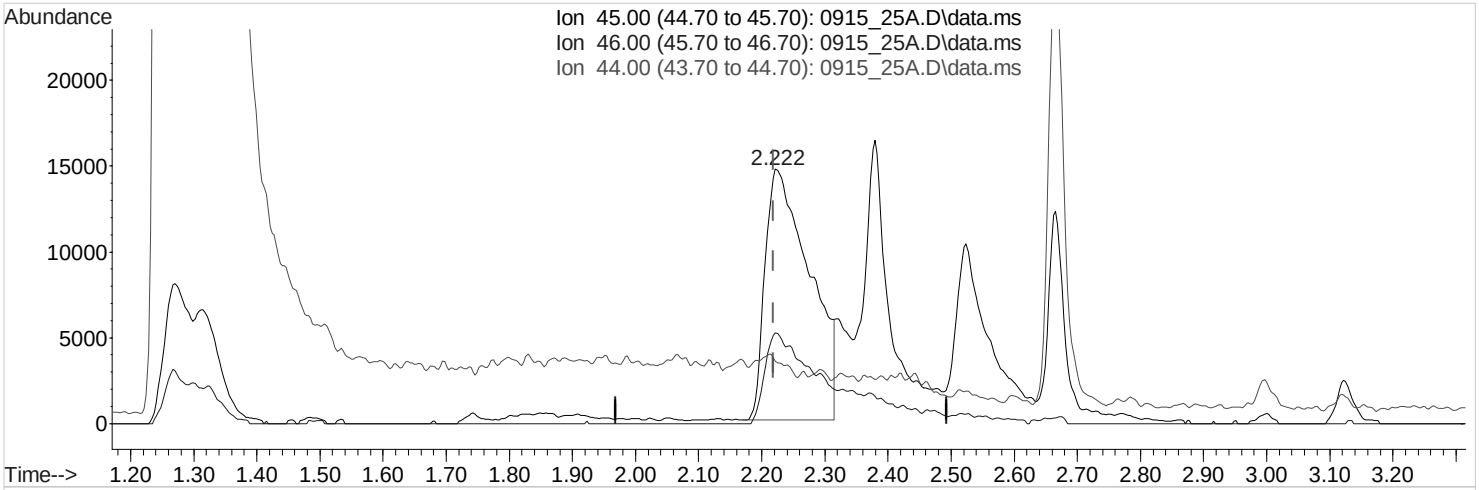
Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 25A.D
Acq On : 15 Sep 2015 6:18 pm
Operator : 621
Sample : STD VMS 17.5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS25

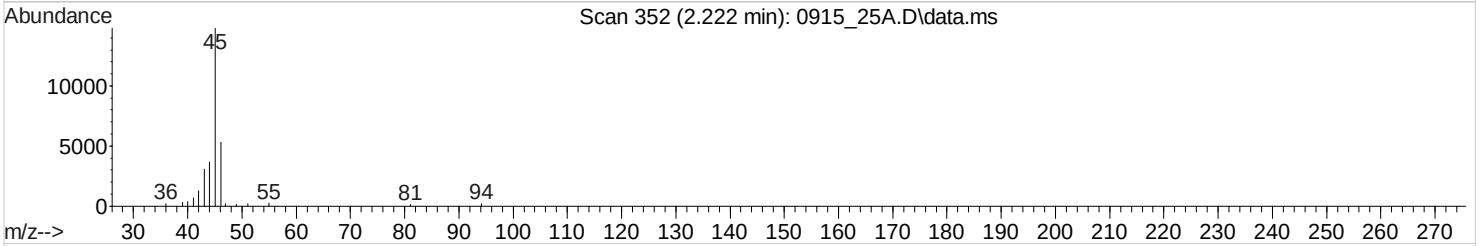
Quant Time: Sep 16 14:55:07 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration

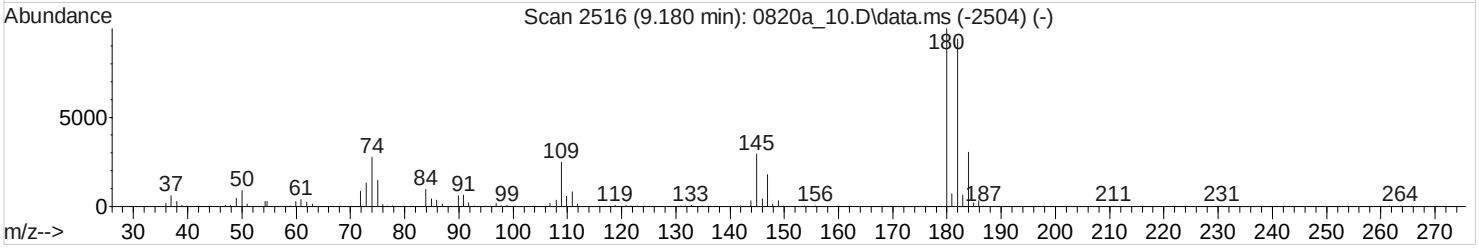


Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 25A.D
Acq On : 15 Sep 2015 6:18 pm
Operator : 621
Sample : STD VMS 17.5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:48:39 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration







TIC: 0915_25A.D\data.ms

(97) ETHANOL (T)

2.222min (+0.003) 1386.6461751 ppb

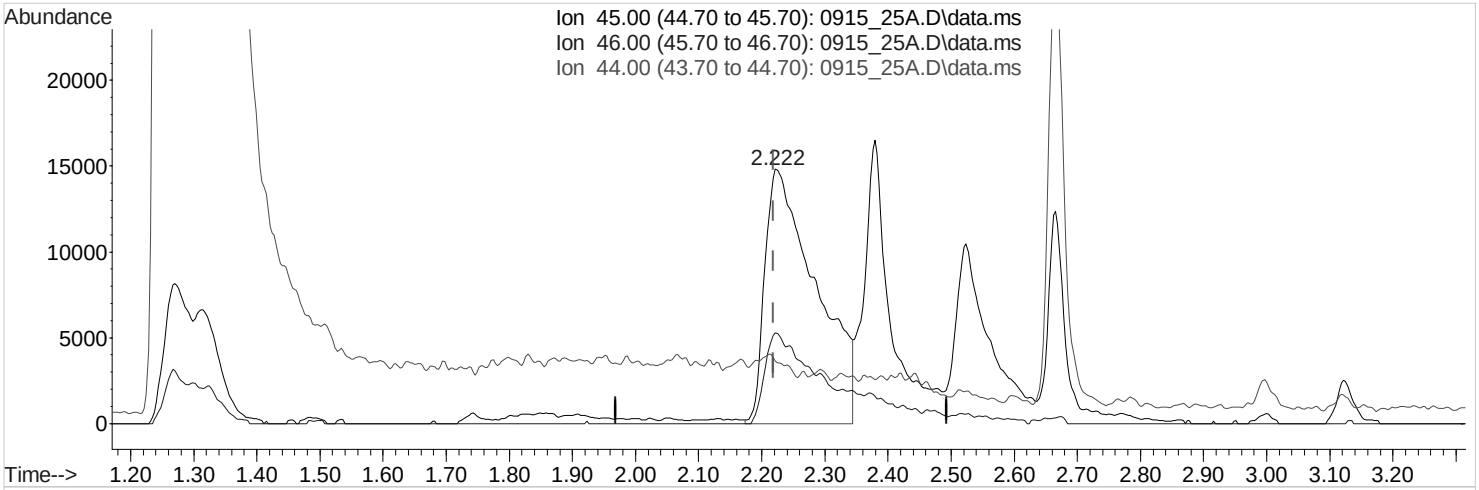
Qvalue = 48

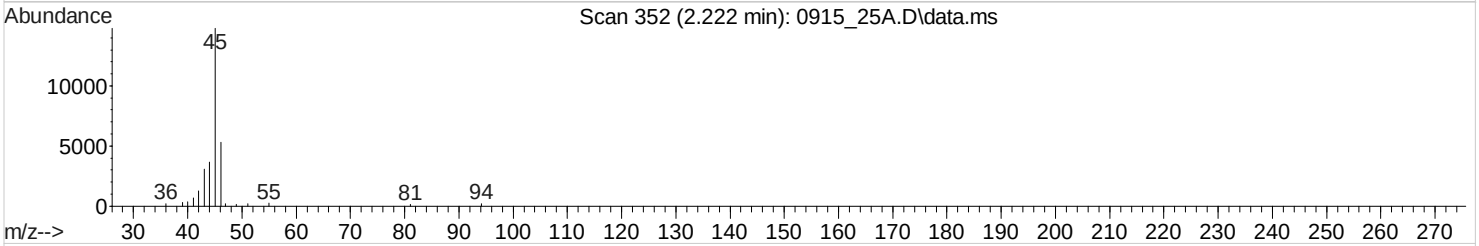
response 72248

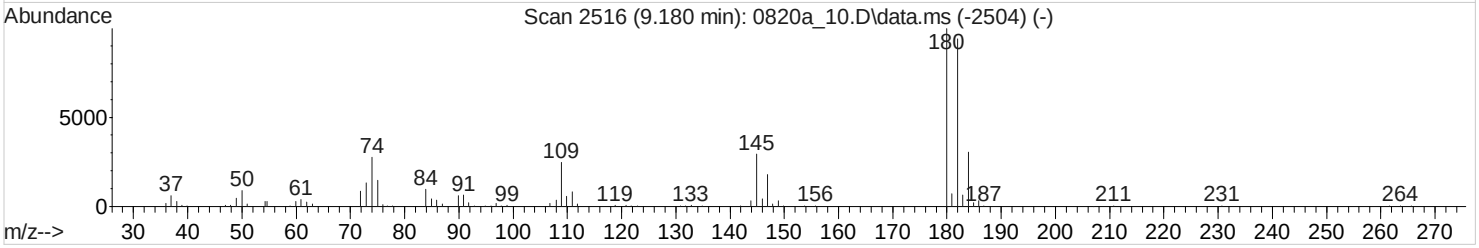
Ion	Exp%	Act%
45.00	100	100
46.00	10.00	30.28#
44.00	0.50	0.00#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 25A.D
Acq On : 15 Sep 2015 6:18 pm
Operator : 621
Sample : STD VMS 17.5 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 25 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:48:39 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration







TIC: 0915_25A.D\data.ms

(97) ETHANOL (T)

2.222min (+0.003) 1602.6234951 ppb m

response 83501

Ion	Exp%	Act%
45.00	100	100
46.00	10.00	26.20#
44.00	0.50	0.00#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 26A.D
Acq On : 15 Sep 2015 6:37 pm
Operator : 621
Sample : STD VMS 20 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:55:51 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration

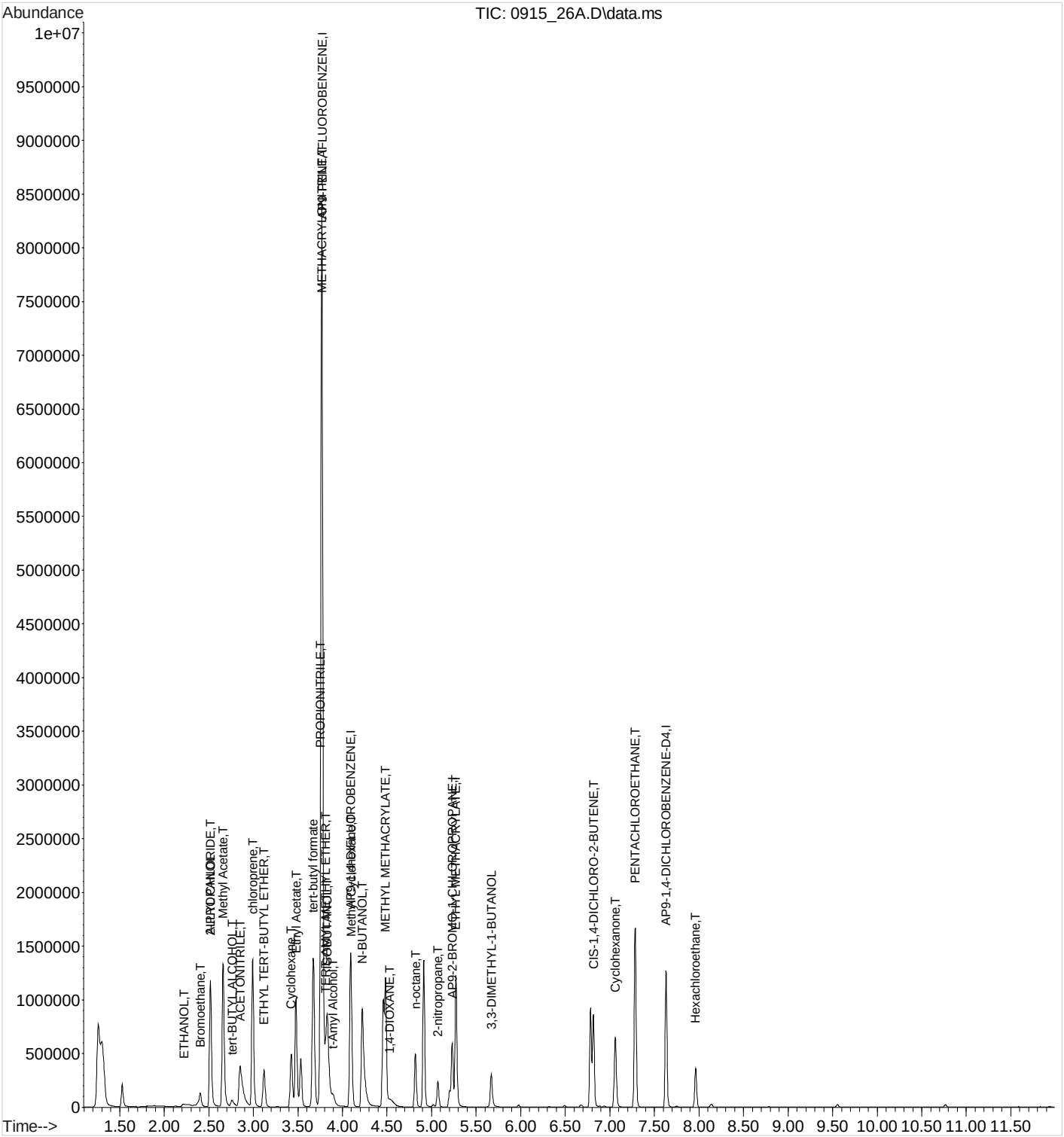
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-3.77
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.09
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.23
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-7.63
96) AP9-PENTAFLUOROBENZENE	3.772	168	394816	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.090	114	629576	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.231	79	104486	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	7.630	152	294110	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
97) ETHANOL	2.219	45	93830m	1975.9924187	ppb		
98) Bromoethane	2.405	108	77929	20.0000000	ppb		100
99) 2-PROPANOL	2.518	45	29119	100.0000000	ppb		100
100) Methyl Acetate	2.659	43	1538100	400.0000000	ppb	#	100
101) ACETONITRILE	2.852	41	649508	1000.0000000	ppb		100
102) ALLYL CHLORIDE	2.518	76	224912	100.0000000	ppb		100
103) tert-BUTYL ALCOHOL	2.762	59	94193	100.0000000	ppb		100
104) chloroprene	2.993	53	695323	100.0000000	ppb		100
105) ETHYL TERT-BUTYL ETHER	3.119	59	281542	20.0000000	ppb		100
106) PROPIONITRILE	3.752	54	698915	1000.0000000	ppb		100
107) Ethyl Acetate	3.479	43	1026388	200.0000000	ppb		100
108) METHACRYLONITRILE	3.768	67	1973268	1000.0000000	ppb		100
109) Cyclohexane	3.424	56	226157	20.0000000	ppb		100
110) tert-butyl formate	3.672	59	644498	200.0000000	ppb		100
111) ISOBUTANOL	3.829	43	668142	2000.0000000	ppb		100
112) t-Amyl Alcohol	3.894	59	46795	100.0000000	ppb		100
113) TERT-AMYL METHYL ETHER	3.810	73	306077	20.0000000	ppb		100
115) N-BUTANOL	4.222	56	624929	4000.0000000	ppb		100
116) Methyl Cyclohexane	4.100	83	210799	20.0000000	ppb		100
117) 2-nitropropane	5.071	43	144832	100.0000000	ppb		100
118) METHYL METHACRYLATE	4.482	41	505493	100.0000000	ppb		100
119) 1,4-DIOXANE	4.530	88	96621	2000.0000000	ppb	#	100
120) n-octane	4.820	85	75631	20.0000000	ppb		100
121) 3,3-DIMETHYL-1-BUTANOL	5.669	57	141538	200.0000000	ppb		100
123) ETHYL METHACRYLATE	5.273	69	545059	100.0000000	ppb		100
124) CIS-1,4-DICHLORO-2-BUTENE	6.816	53	157604	100.0000000	ppb		100
125) Cyclohexanone	7.061	55	262813	200.0000000	ppb		100
126) PENTACHLOROETHANE	7.283	117	315060	100.0000000	ppb		100
127) Hexachloroethane	7.961	117	77345	20.0000000	ppb		100

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

Quantitation Report (QT Reviewed)

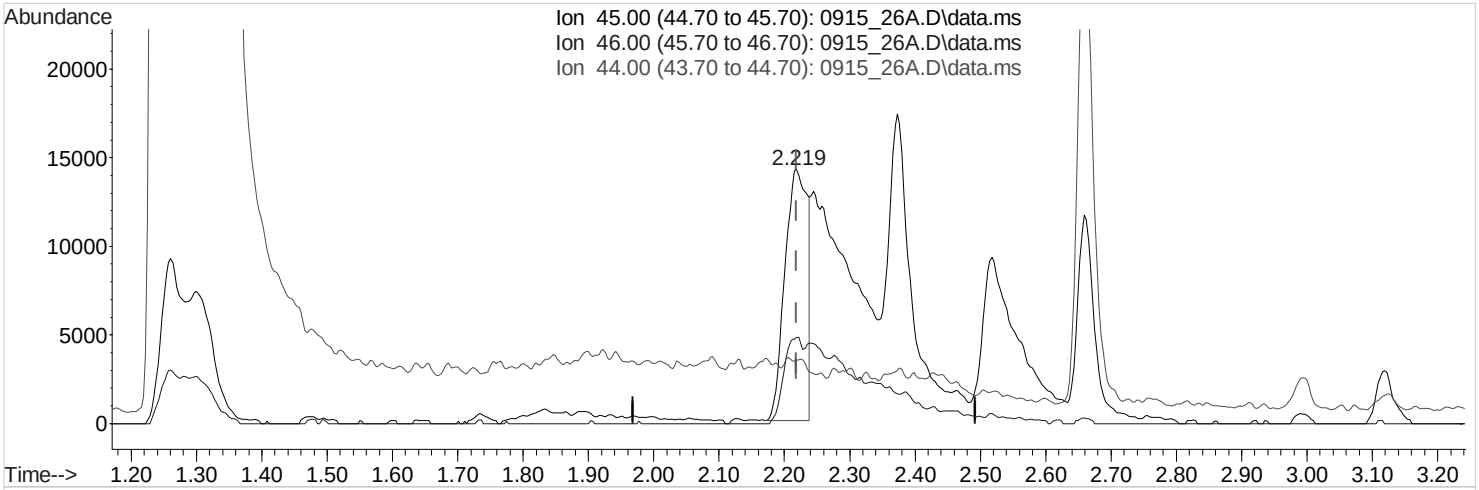
Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 26A.D
Acq On : 15 Sep 2015 6:37 pm
Operator : 621
Sample : STD VMS 20 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS25

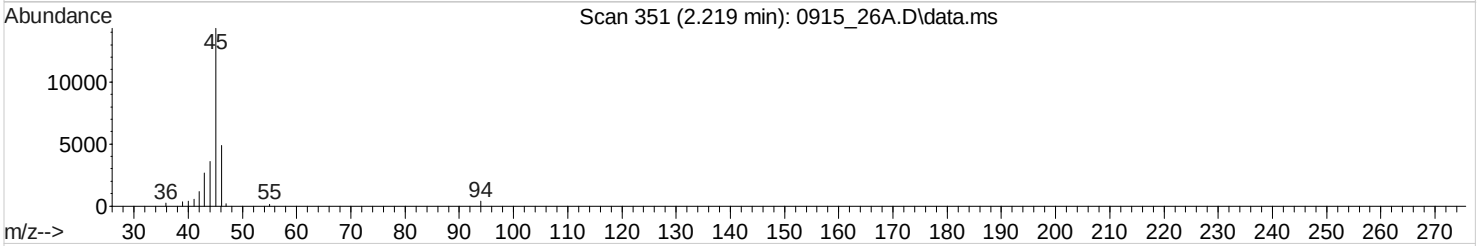
Quant Time: Sep 16 14:55:51 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration

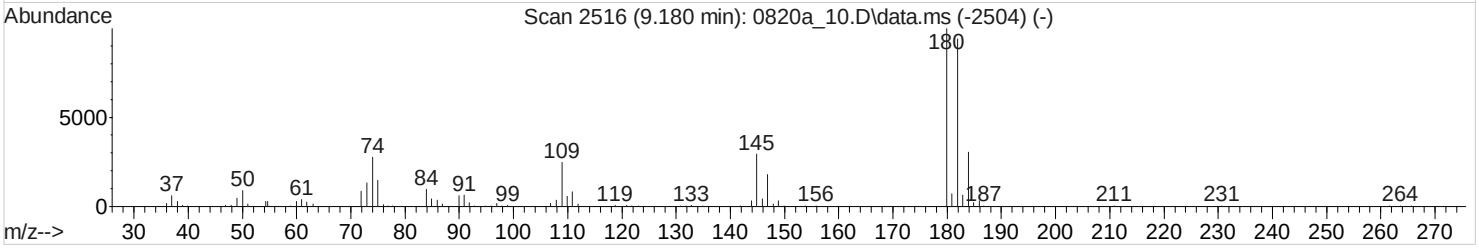


Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 26A.D
Acq On : 15 Sep 2015 6:37 pm
Operator : 621
Sample : STD VMS 20 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:49:01 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration







TIC: 0915_26A.D\data.ms

(97) ETHANOL (T)

2.219min (0.000) 717.1527851 ppb

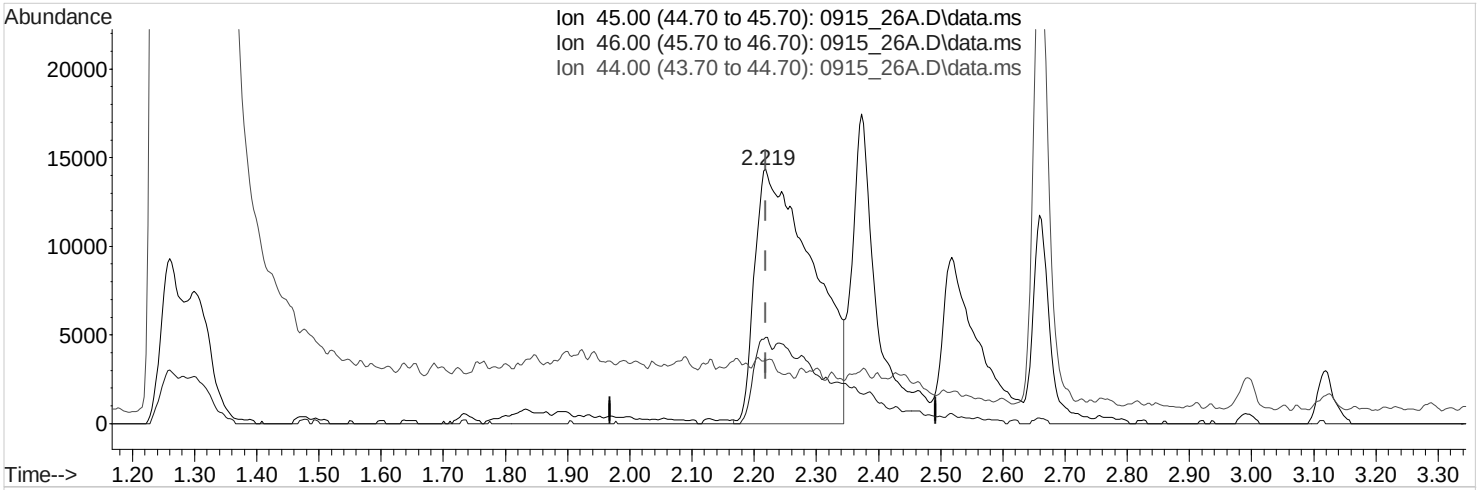
Qvalue = 54

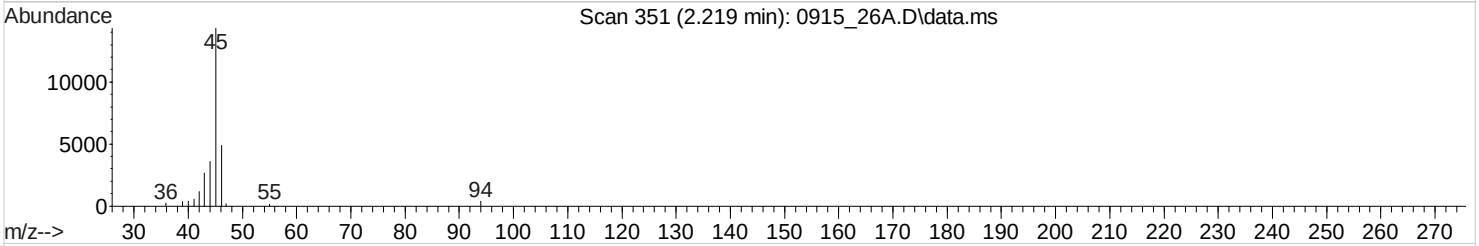
response 34054

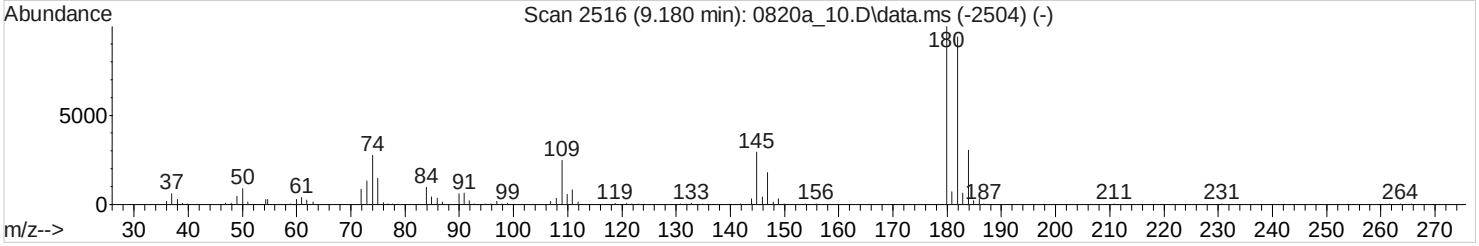
Ion	Exp%	Act%
45.00	100	100
46.00	10.00	27.82#
44.00	0.50	1.47#
0.00	0.00	0.00

Data Path : C:\msdchem\1\data\091515A\
Data File : 0915 26A.D
Acq On : 15 Sep 2015 6:37 pm
Operator : 621
Sample : STD VMS 20 ppb 15H20824
Misc : water IS/SURR15A20860
ALS Vial : 26 Sample Multiplier: 1
InstName : VOCMS25

Quant Time: Sep 16 14:49:01 2015
Quant Method : C:\msdchem\1\methods\V825I15O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS25
QLast Update : Wed Sep 16 14:47:39 2015
Response via : Initial Calibration







TIC: 0915_26A.D\data.ms

(97) ETHANOL (T)

2.219min (0.000) 1975.9924187 ppb m

response 93830

Ion	Exp%	Act%
45.00	100	100
46.00	10.00	10.10
44.00	0.50	0.54
0.00	0.00	0.00

Instrument: VOCMS30
Method: V830I04O

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
0904_04.D	.25	9/4/2015 6:01:00 PM
0904_05.D	.5	9/4/2015 6:23:00 PM
0904_06.D	1	9/4/2015 6:46:00 PM
0904_07.D	2	9/4/2015 7:09:00 PM
0904_08.D	5.0	9/4/2015 7:31:00 PM
0904_09.D	10	9/4/2015 7:54:00 PM
0904_10.D	25	9/4/2015 8:16:00 PM
0904_11.D	40	9/4/2015 8:39:00 PM
0904_12.D	75	9/4/2015 9:01:00 PM
0904_13.D	100	9/4/2015 9:24:00 PM
0904_14.D	200	9/4/2015 9:46:00 PM
0904_19.D	1A	9/4/2015 11:39:00 PM
0904_20.D	2.5A	9/5/2015 12:02:00 AM
0904_21.D	5A	9/5/2015 12:24:00 AM
0904_22.D	7.5A	9/5/2015 12:47:00 AM
0904_23.D	10A	9/5/2015 1:09:00 AM
0904_24.D	12A	9/5/2015 1:32:00 AM
0904_25.D	15A	9/5/2015 1:54:00 AM
0904_26.D	17A	9/5/2015 2:17:00 AM
0904_27.D	20A	9/5/2015 2:40:00 AM
0904_32.D	.4	9/5/2015 4:33:00 AM
0904_33.D	1	9/5/2015 4:55:00 AM
0904_34.D	2	9/5/2015 5:18:00 AM
0904_35.D	4	9/5/2015 5:40:00 AM
0904_36.D	5.0	9/5/2015 6:03:00 AM
0904_37.D	7	9/5/2015 6:25:00 AM
0904_38.D	10	9/5/2015 6:48:00 AM
0904_39.D	20	9/5/2015 7:10:00 AM

Mint Miner 2.6.4 Directory Scan: y:\090415

8 Sep 2015 08:14

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\090415\0904_01.D					
Original Path: 0904_01.D					
0	Scanned		591	VOCMS30	INSTBLK (water 15G07402)
Scan File Path: y:\090415\0904_02.D					
Original Path: y:\090415\0904_02.D					
0	No Audit				
Scan File Path: y:\090415\0904_03.D					
Original Path: y:\090415\0904_03.D					
0	No Audit				
Scan File Path: y:\090415\0904_04.D					
Original Path: C:\msdchem\1\data\090415\0904_04.D					
24	Scanned	D(20), MZ(4)	591	VOCMS30	STD VMS 0.25 ppb 15I04618 (water 15G07402)
Scan File Path: y:\090415\0904_05.D					
Original Path: C:\msdchem\1\data\090415\0904_05.D					
21	Scanned	D(20), ENR(1)	591	VOCMS30	STD VMS 0.5 ppb 15I04618 (water 15G07402)
Scan File Path: y:\090415\0904_06.D					
Original Path: C:\msdchem\1\data\090415\0904_06.D					
22	Scanned	D(21), ENR(1)	591	VOCMS30	STD VMS 1 ppb 15I04618 (water 15G07402)
Scan File Path: y:\090415\0904_06A.D					
Original Path: C:\msdchem\1\data\090415\0904_06.D					
22	Scanned	D(21), ENR(1)	591	VOCMS30	STD VMS 1 ppb 15I04618 (water 15G07402)
Scan File Path: y:\090415\0904_07.D					
Original Path: C:\msdchem\1\data\090415\0904_07.D					
23	Scanned	D(22), ENR(1)	591	VOCMS30	STD VMS 2 ppb 15I04618 (water 15G07402)
Scan File Path: y:\090415\0904_08.D					
Original Path: C:\msdchem\1\data\090415\0904_08.D					
27	Scanned	D(26), ENR(1)	591	VOCMS30	STD VMS 5.0 ppb 15I04618 (water 15G07402)
Scan File Path: y:\090415\0904_09.D					
Original Path: C:\msdchem\1\data\090415\0904_09.D					
28	Scanned	D(27), ENR(1)	591	VOCMS30	STD VMS 10 ppb 15I04618 (water 15G07402)
Scan File Path: y:\090415\0904_10.D					
Original Path: C:\msdchem\1\data\090415\0904_10.D					
60	Scanned	D(59), ENR(1)	591	VOCMS30	MSTD VMS 25 ppb 15I04618 (water 15G07402)

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\090415\0904_11.D					
Original Path: C:\msdchem\1\data\090415\0904_11.D					
31	Scanned	D(30), ENR(1)	591	VOCMS30	STD VMS 40 ppb 15I04618 (water 15G07402)
Scan File Path: y:\090415\0904_12.D					
Original Path: C:\msdchem\1\data\090415\0904_12.D					
32	Scanned	D(31), ENR(1)	591	VOCMS30	STD VMS 75 ppb 15I04618 (water 15G07402)
Scan File Path: y:\090415\0904_13.D					
Original Path: C:\msdchem\1\data\090415\0904_13.D					
31	Scanned	D(30), ENR(1)	591	VOCMS30	STD VMS 100 ppb 15I04618 (water 15G07402)
Scan File Path: y:\090415\0904_14.D					
Original Path: C:\msdchem\1\data\090415\0904_14.D					
34	Scanned	D(33), ENR(1)	591	VOCMS30	STD VMS 200 ppb 15I04618 (water 15G07402)
Scan File Path: y:\090415\0904_15.D					
Original Path: y:\090415\0904_15.D					
0	No Audit				
Scan File Path: y:\090415\0904_16.D					
Original Path: C:\msdchem\1\data\090415\0904_16.D\data.ms					
0	Scanned		591	VOCMS30	dnr SSCV VMS 25 ppb 15I04620 (water 15G074
Scan File Path: y:\090415\0904_17.D					
Original Path: 0904_17.D					
0	Scanned		591	VOCMS30	INSTBLK (water 15G07402)
Scan File Path: y:\090415\0904_18.D					
Original Path: C:\msdchem\1\data\090415\0904_18.D\data.ms					
0	Scanned		591	VOCMS30	STD 0.5 ppb 15H20824 (water 15G07402)
Scan File Path: y:\090415\0904_19.D					
Original Path: C:\msdchem\1\data\090415\0904_19.D					
91	Scanned	D(59), DK(5), DC(4), DS(2), DB(3), DP(2), MZ(4)	591	VOCMS30	STD VMS 1a ppb 15H20824 (water 15G07402)
Scan File Path: y:\090415\0904_19A.D					
Original Path: C:\msdchem\1\data\090415\0904_19.D					
91	Scanned	D(59), DK(5), DC(4), DS(2), DB(3), DP(2), MZ(4)	591	VOCMS30	STD VMS 1a ppb 15H20824 (water 15G07402)
Scan File Path: y:\090415\0904_20.D					
Original Path: C:\msdchem\1\data\090415\0904_20.D					
91	Scanned	D(60), DK(4), DC(4), DS(2), DB(3), DP(2), MZ(4)	591	VOCMS30	STD VMS 2.5 ppb 15H20824 (water 15G07402)

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\090415\0904_21.D					
Original Path: C:\msdchem\1\data\090415\0904_21.D					
90	Scanned	D(61), DK(5), DC(4), DS(2), DB(3), DP(2), ENR(1)	591	VOCMS30	STD VMS 5 ppb 15H20824 (water 15G07402)
Scan File Path: y:\090415\0904_22.D					
Original Path: C:\msdchem\1\data\090415\0904_22.D					
89	Scanned	D(60), DK(5), DC(4), DS(2), DB(3), DP(2), ENR(1)	591	VOCMS30	STD VMS 7.5 ppb 15H20824 (water 15G07402)
Scan File Path: y:\090415\0904_23.D					
Original Path: C:\msdchem\1\data\090415\0904_23.D					
85	Scanned	D(57), DC(4), DK(4), DS(2), DB(3), DP(2), ENR(1)	591	VOCMS30	MSTD VMS 10a ppb 15H20824 (water 15G0740
Scan File Path: y:\090415\0904_24.D					
Original Path: C:\msdchem\1\data\090415\0904_24.D					
84	Scanned	D(57), DP(3), DS(2), DC(3), DK(3), DB(3), ENR(1)	591	VOCMS30	STD VMS 12.5 ppb 15H20824 (water 15G07402
Scan File Path: y:\090415\0904_25.D					
Original Path: C:\msdchem\1\data\090415\0904_25.D					
85	Scanned	D(58), DP(3), DS(2), DC(3), DK(3), DB(3), ENR(1)	591	VOCMS30	STD VMS 15 ppb 15H20824 (water 15G07402)
Scan File Path: y:\090415\0904_26.D					
Original Path: C:\msdchem\1\data\090415\0904_26.D					
86	Scanned	D(59), DP(3), DS(2), DC(3), DK(3), DB(3), ENR(1)	591	VOCMS30	STD VMS 17.5 ppb 15H20824 (water 15G07402
Scan File Path: y:\090415\0904_27.D					
Original Path: C:\msdchem\1\data\090415\0904_27.D					
250	Scanned	D(168), DP(9), DS(6), DC(9), DK(9), DB(9), M(3), ENR(1)	591	VOCMS30	STD VMS 20 ppb 15H20824 (water 15G07402)
Scan File Path: y:\090415\0904_28.D					
Original Path: y:\090415\0904_28.D					
0	No Audit				
Scan File Path: y:\090415\0904_29.D					
Original Path: C:\msdchem\1\data\090415\0904_29.D\data.ms					
0	Scanned		591	VOCMS30	SSCV VMS 10a ppb 15H19752 (water 15G0740
Scan File Path: y:\090415\0904_30.D					
Original Path: C:\msdchem\1\data\090415\0904_30.D\data.ms					
0	Scanned		591	VOCMS30	INSTBLK (water 15G07402)

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\090415\0904_31.D					
Original Path: C:\msdchem\1\data\090415\0904_31.D\data.ms					
0	Scanned		591	VOCMS30	STD .2 ppm 15I04624 (water 15G07402)
Scan File Path: y:\090415\0904_32.D					
Original Path: C:\msdchem\1\data\090415\0904_32.D\data.ms					
1	Scanned	M(1)	591	VOCMS30	STD GROMS .4 ppm 15H18659 (water 15G074
Scan File Path: y:\090415\0904_33.D					
Original Path: C:\msdchem\1\data\090415\0904_33.D\data.ms					
1	Scanned	M(1)	591	VOCMS30	STD GROMS 1 ppm 15H18659 (water 15G0740
Scan File Path: y:\090415\0904_34.D					
Original Path: C:\msdchem\1\data\090415\0904_34.D\data.ms					
1	Scanned	M(1)	591	VOCMS30	STD GROMS 2 ppm 15H18659 (water 15G0740
Scan File Path: y:\090415\0904_35.D					
Original Path: C:\msdchem\1\data\090415\0904_35.D\data.ms					
1	Scanned	M(1)	591	VOCMS30	STD GROMS 4 ppm 15H18659 (water 15G0740
Scan File Path: y:\090415\0904_36.D					
Original Path: C:\msdchem\1\data\090415\0904_36.D\data.ms					
1	Scanned	M(1)	591	VOCMS30	MSTD GROMS 5.0 ppm 15H18659 (water 15G0
Scan File Path: y:\090415\0904_37.D					
Original Path: C:\msdchem\1\data\090415\0904_37.D\data.ms					
1	Scanned	M(1)	591	VOCMS30	STD GROMS 7 ppm 15H18659 (water 15G0740
Scan File Path: y:\090415\0904_38.D					
Original Path: C:\msdchem\1\data\090415\0904_38.D\data.ms					
1	Scanned	M(1)	591	VOCMS30	STD GROMS 10 ppm 15H18659 (water 15G074
Scan File Path: y:\090415\0904_39.D					
Original Path: C:\msdchem\1\data\090415\0904_39.D\data.ms					
1	Scanned	M(1)	591	VOCMS30	STD GROMS 20 ppm 15H18659 (water 15G074
Scan File Path: y:\090415\0904_40.D					
Original Path: y:\090415\0904_40.D					
0	No Audit				
Scan File Path: y:\090415\0904_41.D					
Original Path: C:\msdchem\1\data\090415\0904_41.D\data.ms					
3	Scanned	QM(1), M(1)	591	VOCMS30	SSCV GROMS 5.0 ppm 15H18660 (water 15G07

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\090415\0904_42.D					
Original Path: C:\msdchem\1\data\090415\0904_42.D\data.ms					
0	Scanned		591	VOCMS30	SSCV VMS 25 ppb 15I04620 (water 15G07402)

D = Deletion of any analyte
DB = Deletion of a common contaminant
DC = Deletion of a CCC
DK = Deletion of a spike compound
DP = Deletion of an SPCC
DS = Deletion of a surrogate
ENR = Quant report set to not reviewed (Disables MZ code)
M = Manual integration (non-specific)
MZ = Manual integrated but indicator missing from either the quant report or audit file
QM = Processed >3 times using the same method

ScanSummary.rpt

Total Files Scanned	44	Beginning Analyzed Date	9/4/2015 4:53:00PM
Methods	0	Ending Analyzed Date	9/5/2015 9:49:00AM
Samples	42	Analyzed Range	16 hours, 56 minutes
Tunes	2	Greatest Time Between Tunes	6 hours, 1 minutes
CCCs	0	Greatest Time Between CCCs	N/A

Distinct Method Last Updated count 0
Operators 1 Intruments 1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS30
Computer Name : VOCCOMPAS
Released By : John A. Heath Jr.
Date Released : 9/7/2015 2:46:30 PM
Run ID : 090415
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	0904_01	INSTBLK	V830I04O						1	1	09/04/15 1653	"water 15G07402"
2	0904_01	INSTBLK								1	09/4/15 1653	
3	0904_04	STD VMS 0.25 PPB 15I04618	V830I04O						1	1	09/04/15 1801	"water 15G07402"
4	0904_05	STD VMS 0.5 PPB 15I04618	V830I04O						1	1	09/04/15 1823	"water 15G07402"
5	0904_06	STD VMS 1 PPB 15I04618	V830I04O						1	1	09/04/15 1846	"water 15G07402"
6	0904_06A	RL VMS 1 PPB 15I04618	V830I04O						1	1	09/04/15 1846	"water 15G07402"
7	0904_07	STD VMS 2 PPB 15I04618	V830I04O						1	1	09/04/15 1909	"water 15G07402"
8	0904_08	STD VMS 5.0 PPB 15I04618	V830I04O						1	1	09/04/15 1931	"water 15G07402"
9	0904_09	STD VMS 10 PPB 15I04618	V830I04O						1	1	09/04/15 1954	"water 15G07402"
10	0904_10	MSTD VMS 25 PPB 15I04618	V830I04O						1	1	09/04/15 2016	"water 15G07402"
11	0904_11	STD VMS 40 PPB 15I04618	V830I04O						1	1	09/04/15 2039	"water 15G07402"
12	0904_12	STD VMS 75 PPB 15I04618	V830I04O						1	1	09/04/15 2101	"water 15G07402"
13	0904_13	STD VMS 100 PPB 15I04618	V830I04O						1	1	09/04/15 2124	"water 15G07402"
14	0904_14	STD VMS 200 PPB 15I04618	V830I04O						1	1	09/04/15 2146	"water 15G07402"
15	0904_17	INSTBLK	V830I04O						1	1	09/04/15 2254	"water 15G07402"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS30
Computer Name : VOCCOMPAS
Released By : John A. Heath Jr.
Date Released : 9/7/2015 2:46:30 PM
Run ID : 090415
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
16	0904_17	INSTBLK								1	09/4/15 2254	
17	0904_19	STD VMS 1A PPB 15H20824	V830I04O						1	1	09/04/15 2339	"water 15G07402"
18	0904_19A	RL VMS 1A PPB 15H20824	V830I04O						1	1	09/04/15 2339	"water 15G07402"
19	0904_20	STD VMS 2.5 PPB 15H20824	V830I04O						1	1	09/05/15 0002	"water 15G07402"
20	0904_21	STD VMS 5 PPB 15H20824	V830I04O						1	1	09/05/15 0024	"water 15G07402"
21	0904_22	STD VMS 7.5 PPB 15H20824	V830I04O						1	1	09/05/15 0047	"water 15G07402"
22	0904_23	MSTD VMS 10A PPB 15H20824	V830I04O						1	1	09/05/15 0109	"water 15G07402"
23	0904_24	STD VMS 12.5 PPB 15H20824	V830I04O						1	1	09/05/15 0132	"water 15G07402"
24	0904_25	STD VMS 15 PPB 15H20824	V830I04O						1	1	09/05/15 0154	"water 15G07402"
25	0904_26	STD VMS 17.5 PPB 15H20824	V830I04O						1	1	09/05/15 0217	"water 15G07402"
26	0904_27	STD VMS 20 PPB 15H20824	V830I04O						1	1	09/05/15 0240	"water 15G07402"
27	0904_29	SSCV VMS 10A PPB 15H19752	V830I04O						1	1	09/05/15 0325	"water 15G07402"
28	0904_32	STD GROMS .4 PPM 15H18659	V830I04O						1	1	09/05/15 0433	"water 15G07402"
29	0904_33	STD GROMS 1 PPM 15H18659	V830I04O						1	1	09/05/15 0455	"water 15G07402"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

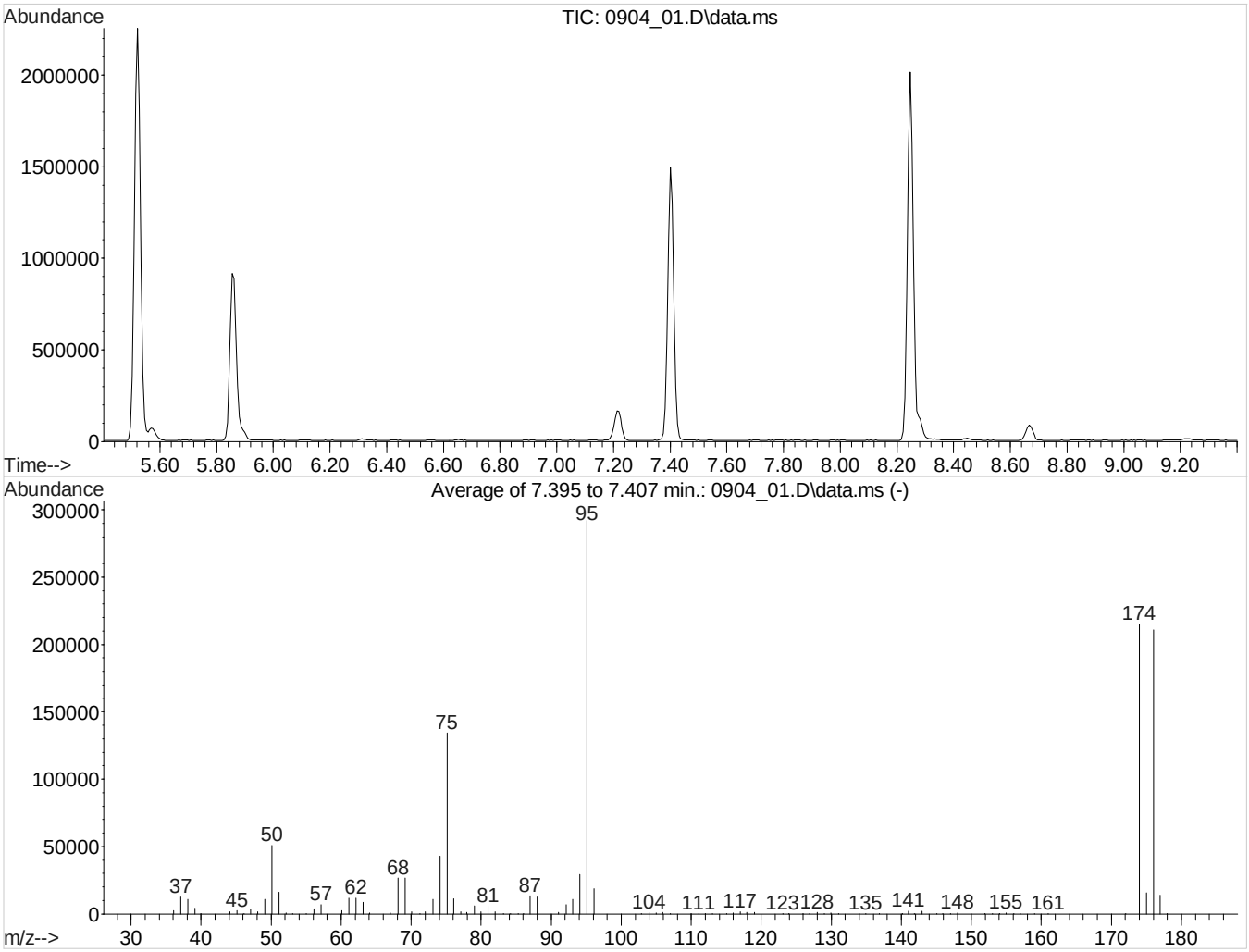
Instrument ID : VOCMS30
Computer Name : VOCCOMPAS
Released By : John A. Heath Jr.
Date Released : 9/7/2015 2:46:30 PM
Run ID : 090415
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
30	0904_34	STD GROMS 2 PPM 15H18659	V830I04O						1	1	09/05/15 0518	"water 15G07402"
31	0904_35	STD GROMS 4 PPM 15H18659	V830I04O						1	1	09/05/15 0540	"water 15G07402"
32	0904_36	MSTD GROMS 5.0 PPM 15H18659	V830I04O						1	1	09/05/15 0603	"water 15G07402"
33	0904_37	STD GROMS 7 PPM 15H18659	V830I04O						1	1	09/05/15 0625	"water 15G07402"
34	0904_38	STD GROMS 10 PPM 15H18659	V830I04O						1	1	09/05/15 0648	"water 15G07402"
35	0904_39	STD GROMS 20 PPM 15H18659	V830I04O						1	1	09/05/15 0710	"water 15G07402"
36	0904_41	SSCV GROMS 5.0 PPM 15H18660	V830I04O						1	1	09/05/15 0756	"water 15G07402"
37	0904_42	SSCV VMS 25 PPB 15I04620	V830I04O						1	1	09/05/15 0949	"water 15G07402"

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 01.D
Acq On : 4 Sep 2015 4:53 pm
Operator : 591
Sample : INSTBLK
Misc : water 15G07402
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V830I04O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
Last Update : Mon Sep 07 14:20:13 2015



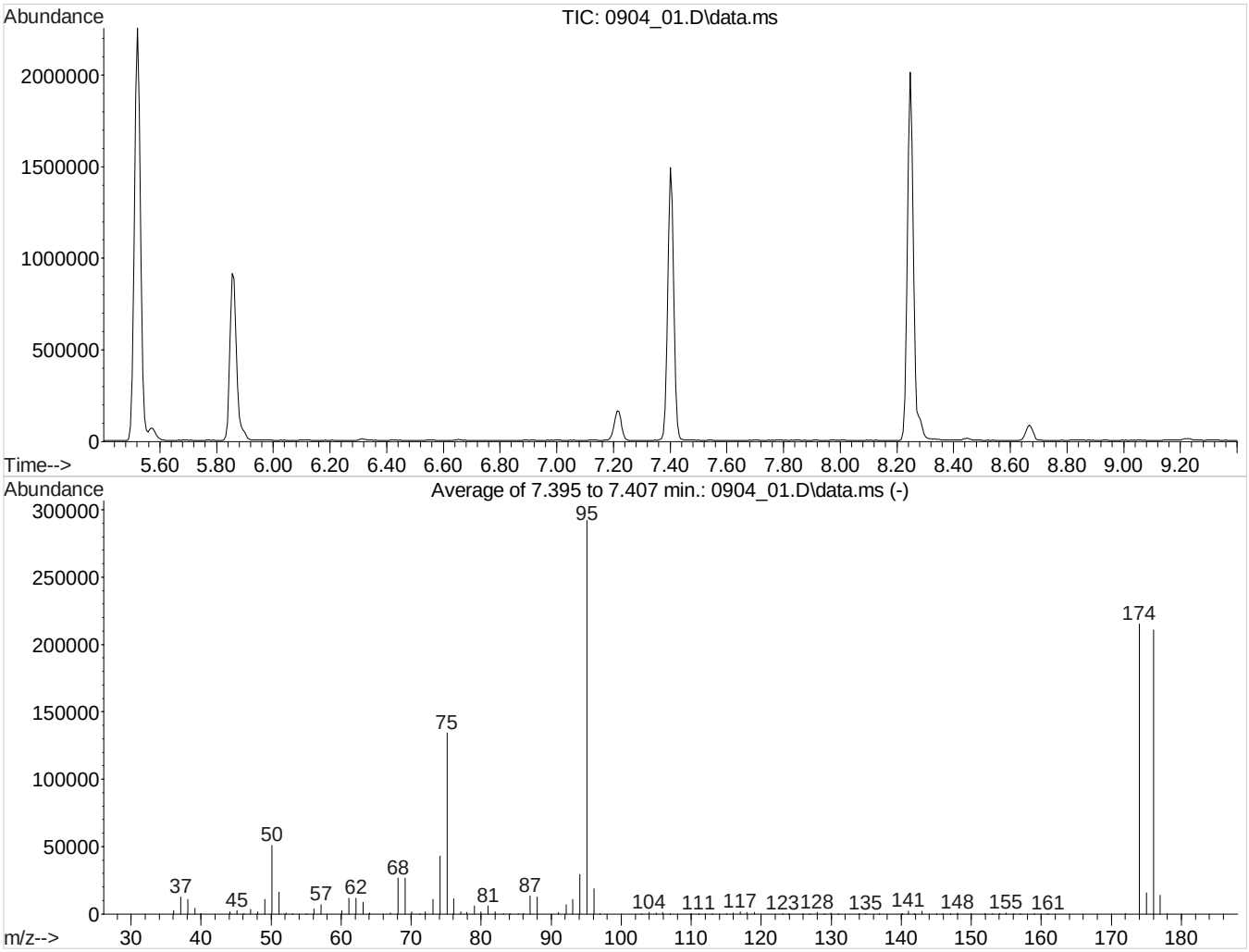
AutoFind: Scans 1202, 1203, 1204; Background Corrected with Scan 1194

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.4	50933	PASS
75	95	30	60	45.9	134269	PASS
95	95	100	100	100.0	292224	PASS
96	95	5	9	6.5	18877	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	73.7	215232	PASS
175	174	5	9	7.3	15815	PASS
176	174	95	101	97.9	210816	PASS
177	176	5	9	6.6	13863	PASS

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 01.D
Acq On : 4 Sep 2015 4:53 pm
Operator : 591
Sample : INSTBLK
Misc : water 15G07402
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V830I04O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
Last Update : Mon Sep 07 14:20:13 2015



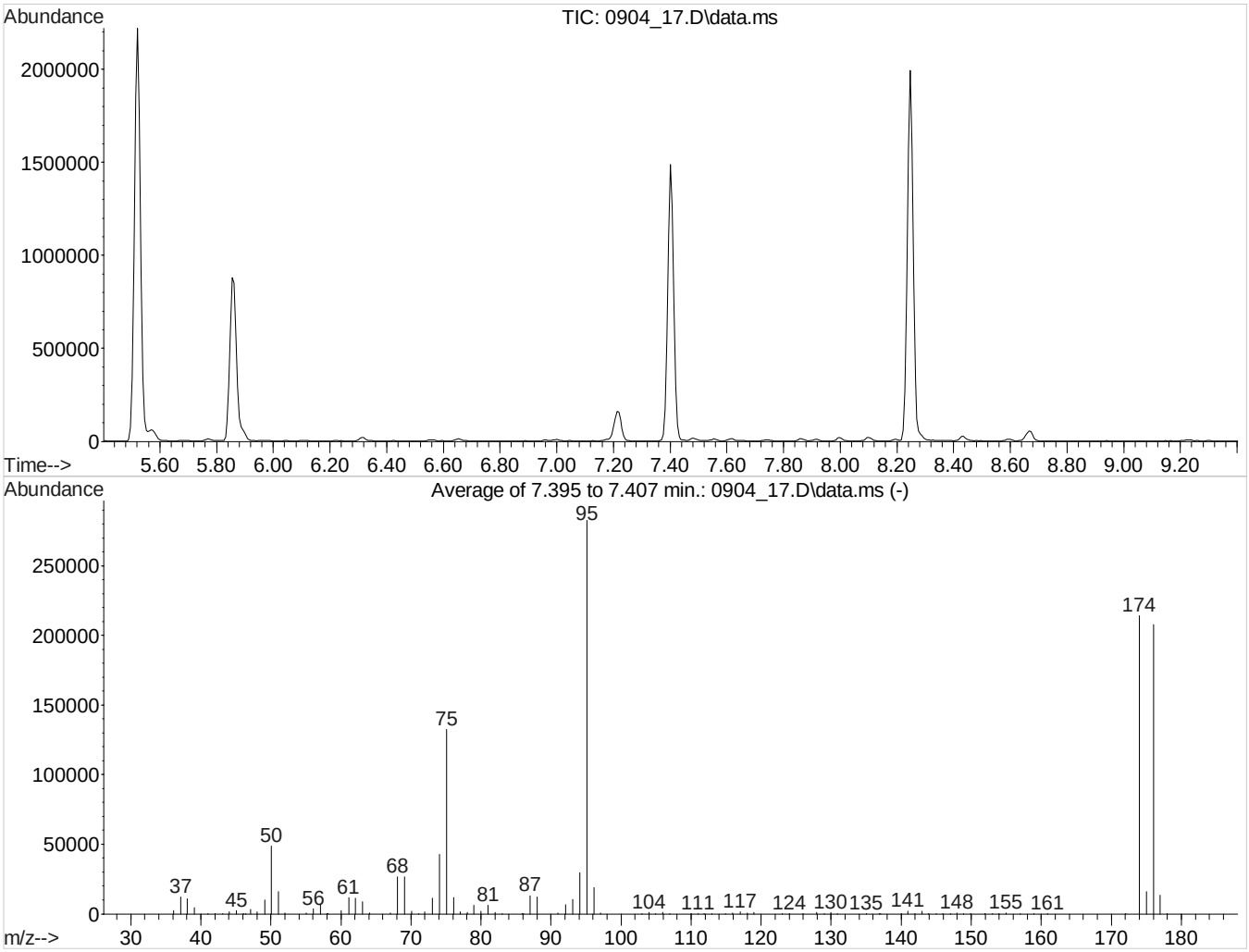
AutoFind: Scans 1202, 1203, 1204; Background Corrected with Scan 1194

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.4	50933	PASS
75	95	30	60	45.9	134269	PASS
95	95	100	100	100.0	292224	PASS
96	95	5	9	6.5	18877	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	73.7	215232	PASS
175	174	5	9	7.3	15815	PASS
176	174	95	101	97.9	210816	PASS
177	176	5	9	6.6	13863	PASS

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 17.D
Acq On : 4 Sep 2015 10:54 pm
Operator : 591
Sample : INSTBLK
Misc : water 15G07402
ALS Vial : 17 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V830I04O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
Last Update : Mon Sep 07 14:20:13 2015



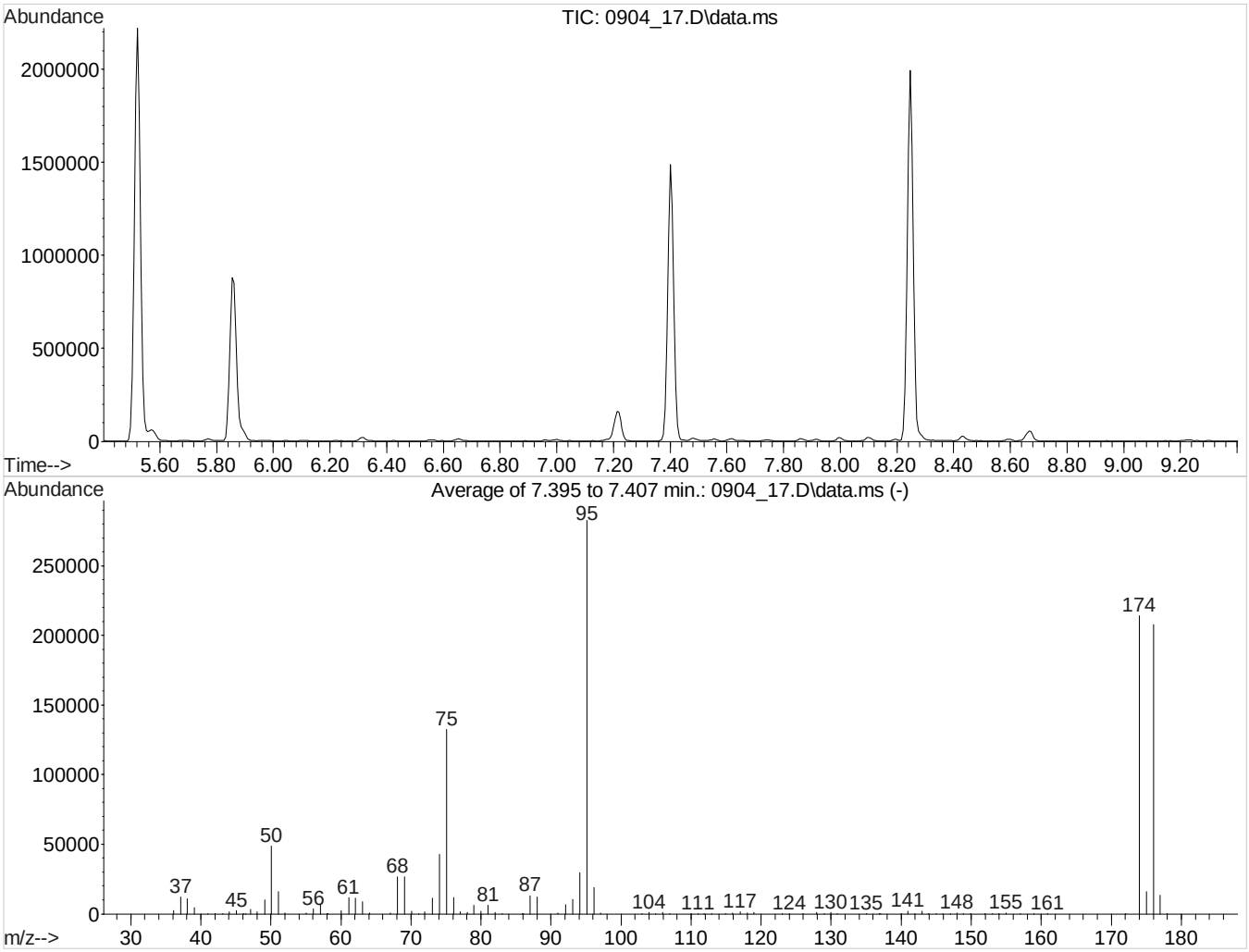
AutoFind: Scans 1202, 1203, 1204; Background Corrected with Scan 1194

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.3	48829	PASS
75	95	30	60	46.9	132520	PASS
95	95	100	100	100.0	282667	PASS
96	95	5	9	6.8	19117	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	75.7	214016	PASS
175	174	5	9	7.5	15961	PASS
176	174	95	101	97.1	207808	PASS
177	176	5	9	6.5	13586	PASS

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 17.D
Acq On : 4 Sep 2015 10:54 pm
Operator : 591
Sample : INSTBLK
Misc : water 15G07402
ALS Vial : 17 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\methods\V830I04O.M
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
Last Update : Mon Sep 07 14:20:13 2015



AutoFind: Scans 1202, 1203, 1204; Background Corrected with Scan 1194

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.3	48829	PASS
75	95	30	60	46.9	132520	PASS
95	95	100	100	100.0	282667	PASS
96	95	5	9	6.8	19117	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	75.7	214016	PASS
175	174	5	9	7.5	15961	PASS
176	174	95	101	97.1	207808	PASS
177	176	5	9	6.5	13586	PASS

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 8260B
Review Protocol : SW846
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:46:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION	786	1233	1410	1408	1427	1410	1388														1294.561	18.08	0.999	0
PROPENE				0.154	0.118	0.108	0.1	0.096	0.096	0.098	0.098										0.10857	18.23	1	0
DICHLORODIFLUOROMETHANE	0.454	0.381	0.372	0.374	0.366	0.369	0.373	0.367	0.368	0.371	0.365										0.378186	6.77	0.068	1
CHLOROMETHANE		0.554	0.505	0.458	0.445	0.448	0.442	0.433	0.43	0.44	0.432										0.458694	8.7	0.087	1
VINYL CHLORIDE	0.412	0.422	0.47	0.451	0.465	0.465	0.471	0.467	0.463	0.467	0.459										0.455652	4.39	0.044	1
1,3-BUTADIENE		0.432	0.366	0.328	0.337	0.338	0.336	0.325	0.316	0.318	0.304										0.34012	10.71	0.107	1
BROMOMETHANE					0.249	0.21	0.186	0.177	0.175	0.182	0.167										0.1924	14.67	0.147	1
CHLOROETHANE					0.244	0.249	0.232	0.213	0.185												0.224588	11.67	0.117	1
TRICHLOROFLUOROMETHANE	0.519	0.503	0.553	0.512	0.52	0.55	0.528	0.529	0.507	0.497	0.454										0.515555	5.24	0.052	1
DICHLOROFLUOROMETHANE	0.756	0.744	0.73	0.676	0.672	0.682	0.668	0.661	0.663	0.662	0.627										0.685528	5.86	0.059	1
ETHYL ETHER	0.319	0.296	0.287	0.265	0.273	0.276	0.276	0.269	0.267	0.272	0.269										0.279066	5.75	0.057	1
ACROLEIN			0.06	0.056	0.057	0.055	0.054	0.051	0.052	0.052	0.053										0.054423	5.49	0.055	1
1,1-DICHLOROETHENE	0.496	0.516	0.528	0.513	0.533	0.548	0.543	0.529	0.521	0.525	0.51										0.52391	2.89	0.029	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.322	0.365	0.351	0.341	0.347	0.356	0.36	0.347	0.341	0.344	0.336										0.346362	3.46	0.035	1
ACETONE					0.173	0.155	0.14	0.134	0.135	0.132	0.128										0.142368	11.22	0.112	1
IODOMETHANE	0.554	0.506	0.456	0.448	0.446	0.464	0.454	0.437	0.427	0.423	0.391										0.455094	9.51	0.095	1
CARBON DISULFIDE	1.705	1.476	1.315	1.309	1.274	1.268	1.234	1.208	1.183	1.198	1.162										1.30302	12.2	0.122	1
METHYLENE CHLORIDE		0.511	0.464	0.399	0.397	0.381	0.377	0.367	0.366	0.367	0.366										0.399607	12.34	0.123	1
ACRYLONITRILE	0.11	0.1	0.11	0.106	0.106	0.105	0.106	0.101	0.103	0.103	0.103										0.105047	3.21	0.032	1
n-Hexane			0.415	0.396	0.371	0.355	0.343	0.328	0.326	0.329	0.322										0.35393	9.47	0.095	1
TRANS-1,2-DICHLOROETHENE	0.397	0.401	0.416	0.37	0.381	0.383	0.382	0.372	0.369	0.375	0.366										0.382819	4.09	0.041	1

PDF Generated On: 09/07/2015 - By: John A. Heath Jr.

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 8260B
Review Protocol : SW846
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:46:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	0.931	0.92	0.982	0.951	0.956	0.958	0.946	0.896	0.893	0.903	0.896										0.930227	3.28	0.033	1
1,1-DICHLOROETHANE	0.643	0.636	0.638	0.662	0.655	0.656	0.652	0.636	0.636	0.644	0.634										0.644712	1.56	0.016	1
VINYL ACETATE	0.543	0.6	0.604	0.581	0.582	0.55	0.632	0.583	0.565	0.535	0.55										0.57511	5.17	0.052	1
DI-ISOPROPYL ETHER	1.137	1.15	1.156	1.142	1.16	1.169	1.154	1.124	1.112	1.124	1.107										1.139533	1.8	0.018	1
2,2-Dichloropropane	0.628	0.622	0.613	0.595	0.606	0.594	0.58	0.557	0.556	0.562	0.552										0.587725	4.77	0.048	1
CIS-1,2-DICHLOROETHENE	0.401	0.419	0.399	0.408	0.406	0.413	0.404	0.398	0.391	0.403	0.397										0.403528	1.91	0.019	1
2-BUTANONE (MEK)			0.222	0.188	0.186	0.174	0.165	0.157	0.163	0.159	0.161										0.175036	11.97	0.12	1
BROMOCHLOROMETHANE	0.216	0.214	0.231	0.218	0.226	0.227	0.226	0.219	0.216	0.217	0.217										0.220647	2.6	0.026	1
TETRAHYDROFURAN					0.109	0.096	0.089	0.083	0.086	0.085	0.085										0.090432	10.28	0.103	1
CHLOROFORM	0.718	0.672	0.68	0.634	0.659	0.659	0.628	0.613	0.608	0.616	0.6										0.644267	5.68	0.057	1
DIBROMOFLUOROMETHANE	0.503	0.505	0.503	0.492	0.492	0.496	0.487	0.476	0.479	0.474	0.475										0.489293	2.44	0.024	1
1,1,1-TRICHLOROETHANE	0.527	0.546	0.547	0.528	0.532	0.542	0.529	0.519	0.514	0.521	0.512										0.528772	2.32	0.023	1
CARBON TETRACHLORIDE	0.426	0.543	0.44	0.528	0.509	0.527	0.529	0.51	0.512	0.527	0.518										0.506153	7.43	0.074	1
1,1-Dichloropropene	0.477	0.494	0.474	0.469	0.479	0.49	0.485	0.47	0.47	0.474	0.463										0.47672	1.98	0.02	1
2,2,4-TRIMETHYLPENTANE	0.474	0.443	0.386	0.391	0.396	0.394	0.385	0.367	0.368	0.37	0.357										0.393778	8.9	0.089	1
HEPTANE	0.593	0.544	0.601	0.609	0.582	0.595	0.624	0.587	0.598	0.605	0.592										0.593637	3.38	0.034	1
BENZENE	1.646	1.643	1.487	1.477	1.473	1.497	1.458	1.435	1.404	1.439	1.407										1.487869	5.58	0.056	1
1,2-DICHLOROETHANE	0.434	0.399	0.426	0.411	0.429	0.437	0.439	0.422	0.431	0.432	0.43										0.426338	2.77	0.028	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.223	0.215	0.232	0.237	0.228	0.236	0.229	0.222	0.221	0.227	0.219										0.226077	3.09	0.031	1
1,2-DICHLOROPROPANE	0.157	0.175	0.172	0.162	0.16	0.156	0.158	0.153	0.153	0.155	0.149										0.15917	4.98	0.05	1
DIBROMOMETHANE	0.128	0.131	0.127	0.117	0.135	0.129	0.128	0.124	0.125	0.126	0.124										0.126822	3.63	0.036	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 8260B
Review Protocol : SW846
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:46:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.327	0.362	0.328	0.306	0.296	0.297	0.286	0.283	0.278	0.283	0.275										0.301798	8.91	0.089	1
a,a,a-Trifluorotoluene	0.544	0.552	0.541	0.53	0.526	0.515	0.511	0.507	0.498	0.493	0.488										0.518753	4.18	0.042	1
-CHLOROETHYL VINYL ETHER																					0	0	0	1
CIS-1,3-DICHLOROPROPENE	0.362	0.375	0.339	0.356	0.359	0.361	0.356	0.35	0.347	0.356	0.346										0.355193	2.68	0.027	1
4-METHYL-2-PENTANONE (MIBK)	0.176	0.175	0.193	0.168	0.177	0.172	0.17	0.159	0.161	0.159	0.154										0.169592	6.5	0.065	1
TOLUENE-D8	1.163	1.17	1.151	1.139	1.131	1.125	1.107	1.098	1.099	1.092	1.086										1.123765	2.63	0.026	1
TOLUENE		1.063	0.996	1.015	0.956	0.954	0.93	0.889	0.891	0.902	0.856										0.945124	6.84	0.068	1
TRANS-1,3-DICHLOROPROPENE	0.291	0.323	0.322	0.3	0.313	0.311	0.304	0.289	0.291	0.296	0.289										0.302584	4.29	0.043	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.566	1.151	1.212	1.169	1.19	1.202	1.183	1.141	1.132	1.153	1.132										1.202763	10.27	0.103	1
TETRACHLOROETHENE	1.033	1.206	1.192	1.204	1.179	1.186	1.141	1.104	1.072	1.099	1.028										1.131372	5.96	0.06	1
1,3-Dichloropropane	2.846	2.374	2.254	2.162	2.077	2.025	2.037	1.983	1.935	2	1.928										2.147513	12.54	0.125	1
2-HEXANONE	0.571	0.524	0.511	0.494	0.493	0.475	0.451	0.438	0.444	0.451	0.445										0.481466	8.69	0.087	1
CHLORODIBROMOMETHANE	1.295	1.261	1.322	1.326	1.329	1.316	1.326	1.302	1.307	1.358	1.334										1.315908	1.9	0.019	1
1,2-DIBROMOETHANE	1.314	1.192	1.261	1.243	1.208	1.22	1.225	1.203	1.202	1.232	1.199										1.227097	2.89	0.029	1
CHLOROBENZENE	3.666	4.124	4.099	4.053	4.058	3.996	3.951	3.816	3.724	3.83	3.594										3.901109	4.74	0.047	1
1,1,1,2-TETRACHLOROETHANE	1.327	1.315	1.277	1.295	1.3	1.282	1.263	1.223	1.206	1.246	1.213										1.267847	3.26	0.033	1
ETHYLBENZENE	2.327	2.275	2.204	2.289	2.291	2.285	2.218	2.164	2.106	2.173	2.046										2.216201	3.96	0.04	1
M&P-XYLENE	3.026	3.017	2.817	2.821	2.759	2.733	2.679	2.593	2.517	2.609	2.426										2.726932	6.97	0.07	1
O-XYLENE	2.797	2.858	2.673	2.675	2.663	2.676	2.595	2.588	2.547	2.619	2.47										2.65087	4.09	0.041	1
STYRENE	4.307	4.351	4.338	4.402	4.411	4.458	4.315	4.209	4.118	4.221	3.987										4.283503	3.26	0.033	1
Bromoform	0.712	0.69	0.794	0.787	0.807	0.795	0.796	0.782	0.786	0.818	0.814										0.780079	5.26	0.053	1

PDF Generated On: 09/07/2015 By: John A. Heath Jr.

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 8260B
Review Protocol : SW846
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:46:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	7.558	7.445	7.307	7.231	7.12	7.174	7.006	6.77	6.515	6.635	6.173										6.993891	6.08	0.061	1
4-BROMOFLUOROBENZENE	2.855	2.817	2.827	2.797	2.782	2.785	2.728	2.745	2.716	2.767	2.74										2.778103	1.59	0.016	1
Bromobenzene	3.43	3.055	3.035	3.126	2.963	2.945	2.909	2.79	2.743	2.824	2.675										2.954178	7.11	0.071	1
1,1,2,2-TETRACHLOROETHANE	1.71	1.667	1.595	1.599	1.567	1.504	1.523	1.455	1.452	1.462	1.45										1.54411	5.9	0.059	1
1,2,3-TRICHLOROPROPANE		0.434	0.415	0.409	0.39	0.395	0.382	0.372	0.37	0.381	0.377										0.392485	5.31	0.053	1
TRANS-1,4-DICHLORO-2-BUTENE		0.395	0.443	0.407	0.399	0.374	0.364	0.36	0.367	0.373	0.368										0.384911	6.72	0.067	1
n-Propylbenzene	8.309	8.543	8.491	8.496	8.446	8.498	8.311	8.146	7.828	8.02	7.383										8.224674	4.38	0.044	1
4-ETHYLTOLUENE	7.578	7.6	7.211	7.112	7.164	7.12	6.91	6.715	6.489	6.632	6.102										6.966719	6.53	0.065	1
2-Chlorotoluene	1.609	1.543	1.58	1.667	1.547	1.545	1.531	1.479	1.469	1.516	1.447										1.539525	4.15	0.041	1
4-Chlorotoluene	5.56	5.458	4.91	5.1	5.031	5.053	5.026	4.858	4.724	4.865	4.513										5.008936	5.98	0.06	1
1,3,5-Trimethylbenzene	5.673	6.127	6.189	6.025	5.906	5.875	5.689	5.521	5.259	5.402	5.007										5.69755	6.56	0.066	1
tert-Butylbenzene	4.823	4.804	4.715	4.956	4.867	4.857	4.82	4.638	4.455	4.504	4.304										4.703833	4.35	0.043	1
1,2,4-Trimethylbenzene	6.396	6.244	5.991	5.865	5.893	5.78	5.619	5.399	5.227	5.366	4.973										5.704733	7.63	0.076	1
sec-Butylbenzene	7.834	7.941	7.735	7.902	7.882	7.88	7.581	7.341	7.033	7.195	6.621										7.540401	5.8	0.058	1
1,3-DICHLOROBENZENE	3.033	3.104	3.159	3.154	3.154	3.124	3.07	3.01	2.923	2.964	2.758										3.041304	4.05	0.041	1
p-Isopropyltoluene	6.536	6.501	6.363	6.421	6.428	6.428	6.213	5.926	5.736	5.85	5.408										6.164728	6.09	0.061	1
DICYCLOPENTADIENE	6.04	6.04	7.063	6.738	6.882	6.947	6.745	6.413	6.241	6.339	5.968										6.492368	6.13	0.061	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.095	1.143	1.142	1.068	1.078	1.074	1.059	1.027	1.008	1.02	0.954										1.060704	5.34	0.053	1
1,2,3-TRIMETHYLBENZENE			3.093	2.532	2.208	2.083	2.029	1.938	1.88	1.899	1.784										2.16086	19.16	0.999	0
1,2-DICHLOROBENZENE	0.981	1.048	1.094	1.041	1.039	1.042	1.036	1.009	0.992	1.002	0.952										1.021456	3.82	0.038	1
n-Butylbenzene		2.681	2.447	2.252	2.19	2.237	2.185	2.112	2.028	2.037	1.885										2.20537	10.24	0.102	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 8260B
Review Protocol : SW846
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:46:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane		0.091	0.115	0.098	0.097	0.101	0.104	0.104	0.108	0.111	0.113										0.10407	7.3	0.073	1
1,2,4-Trichlorobenzene	0.552	0.631	0.671	0.664	0.676	0.688	0.685	0.668	0.635	0.639	0.605										0.646706	6.28	0.063	1
HEXACHLORO-1,3-BUTADIENE	0.309	0.365	0.357	0.352	0.36	0.355	0.333	0.338	0.325	0.332	0.328										0.341475	5.18	0.052	1
Naphthalene	1.543	1.482	1.49	1.426	1.463	1.495	1.528	1.499	1.492	1.505	1.46										1.489473	2.16	0.022	1
1,2,3-Trichlorobenzene	0.526	0.585	0.594	0.579	0.593	0.603	0.603	0.592	0.563	0.578	0.551										0.578804	4.1	0.041	1
1-Methylnaphthalene	0.515	0.505	0.483	0.527	0.55	0.566	0.591	0.597	0.602	0.616	0.62										0.561062	8.57	0.086	1
2-Methylnaphthalene	0.468	0.475	0.442	0.487	0.486	0.498	0.506	0.486	0.496	0.511	0.493										0.486049	3.95	0.04	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004234	9.19	0.092	1
Bromoethane												0.321	0.318	0.318	0.321	0.326	0.328	0.338	0.334	0.331	0.326079	2.19	0.022	1
2-PROPANOL												0.03	0.025	0.023	0.021	0.021	0.021	0.023	0.021	0.021	0.022726	13.68	0.137	1
Methyl Acetate												0.212	0.2	0.208	0.206	0.199	0.201	0.207	0.207	0.201	0.204529	2.22	0.022	1
ACETONITRILE												0.035	0.033	0.034	0.034	0.032	0.034	0.035	0.034	0.034	0.033858	2.65	0.026	1
ALLYL CHLORIDE												0.194	0.179	0.179	0.185	0.181	0.183	0.185	0.183	0.181	0.18335	2.49	0.025	1
tert-BUTYL ALCOHOL												0.068	0.059	0.063	0.06	0.059	0.058	0.062	0.063	0.062	0.061569	4.77	0.048	1
chloroprene												0.583	0.56	0.556	0.549	0.54	0.554	0.559	0.548	0.543	0.554645	2.27	0.023	1
ETHYL TERT-BUTYL ETHER												1.077	1.025	1.041	1.011	1.028	1.033	1.049	1.041	1.039	1.038207	1.75	0.018	1
PROPIONITRILE												0.04	0.037	0.039	0.038	0.037	0.038	0.039	0.039	0.038	0.038501	2.91	0.029	1
Ethyl Acetate												0.263	0.245	0.266	0.253	0.25	0.26	0.269	0.268	0.258	0.259177	3.2	0.032	1
METHACRYLONITRILE												0.127	0.121	0.123	0.12	0.118	0.12	0.123	0.122	0.119	0.121516	2.23	0.022	1
Cyclohexane												1.033	0.943	0.958	0.935	0.909	0.949	0.958	0.945	0.937	0.951894	3.56	0.036	1
tert-butyl formate												0.09	0.09	0.092	0.087	0.091	0.093	0.093	0.099	0.096	0.092314	3.97	0.04	1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 8260B
Review Protocol : SW846
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:46:31 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.017	0.016	0.016	0.016	0.015	0.016	0.017	0.016	0.016	0.016006	2.73	0.027	1
t-Amyl Alcohol												0.027	0.026	0.027	0.023	0.024	0.026	0.028	0.026	0.026	0.025969	6.03	0.06	1
TERT-AMYL METHYL ETHER												1.198	1.098	1.092	1.051	1.064	1.07	1.077	1.06	1.063	1.085946	4.12	0.041	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003861	11.22	0.112	1
Methyl Cyclohexane												0.986	0.697	0.618	0.573	0.567	0.563	0.563	0.548	0.54	0.628586	22.68	1	0
2-nitropropane												0.051	0.045	0.047	0.046	0.045	0.046	0.048	0.047	0.047	0.047009	3.67	0.037	1
METHYL METHACRYLATE												0.165	0.159	0.166	0.162	0.16	0.16	0.162	0.159	0.159	0.161422	1.56	0.016	1
1,4-DIOXANE												0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002435	15.25	0.152	1
n-octane												0.248	0.226	0.225	0.216	0.223	0.222	0.226	0.225	0.22	0.225715	4.05	0.04	1
3,3-DIMETHYL-1-BUTANOL												0.024	0.02	0.018	0.017	0.017	0.018	0.019	0.02	0.018	0.018967	10.62	0.106	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.42	1.33	1.371	1.308	1.343	1.354	1.411	1.383	1.394	1.368333	2.74	0.027	1
CIS-1,4-DICHLORO-2-BUTENE												0.351	0.332	0.345	0.344	0.344	0.347	0.365	0.353	0.354	0.348203	2.61	0.026	1
Cyclohexanone												0.208	0.2	0.194	0.213	0.193	0.177	0.239	0.202	0.218	0.204764	8.58	0.086	1
PENTACHLOROETHANE												0.678	0.712	0.837	0.725	0.808	0.827	0.698	0.786	0.705	0.752843	8.13	0.081	1
Hexachloroethane												0.987	1.02	0.999	1.024	1.044	1.067	1.098	1.06	1.091	1.043409	3.74	0.037	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 601-602
Review Protocol : EPA
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:41:59 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
4260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION	786	1233	1410	1408	1427	1410	1388														1294.561	18.08	0.999	0
PROPENE				0.154	0.118	0.108	0.1	0.096	0.096	0.098	0.098										0.108517	18.23	1	0
DICHLORODIFLUOROMETHANE	0.454	0.381	0.372	0.374	0.366	0.369	0.373	0.367	0.368	0.371	0.365										0.378186	6.77	0.068	1
CHLOROMETHANE		0.554	0.505	0.458	0.445	0.448	0.442	0.433	0.43	0.44	0.432										0.458694	8.7	0.087	1
VINYL CHLORIDE	0.412	0.422	0.47	0.451	0.465	0.465	0.471	0.467	0.463	0.467	0.459										0.455652	4.39	0.044	1
1,3-BUTADIENE		0.432	0.366	0.328	0.337	0.338	0.336	0.325	0.316	0.318	0.304										0.34012	10.71	0.107	1
BROMOMETHANE					0.249	0.21	0.186	0.177	0.175	0.182	0.167										0.1924	14.67	0.147	1
CHLOROETHANE					0.244	0.249	0.232	0.213	0.185												0.224588	11.67	0.117	1
TRICHLOROFLUOROMETHANE	0.519	0.503	0.553	0.512	0.52	0.55	0.528	0.529	0.507	0.497	0.454										0.515555	5.24	0.052	1
DICHLOROFLUOROMETHANE	0.756	0.744	0.73	0.676	0.672	0.682	0.668	0.661	0.663	0.662	0.627										0.685528	5.86	0.059	1
ETHYL ETHER	0.319	0.296	0.287	0.265	0.273	0.276	0.276	0.269	0.267	0.272	0.269										0.279066	5.75	0.057	1
ACROLEIN			0.06	0.056	0.057	0.055	0.054	0.051	0.052	0.052	0.053										0.054423	5.49	0.055	1
1,1-DICHLOROETHENE	0.496	0.516	0.528	0.513	0.533	0.548	0.543	0.529	0.521	0.525	0.51										0.52391	2.89	0.029	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.322	0.365	0.351	0.341	0.347	0.356	0.36	0.347	0.341	0.344	0.336										0.346362	3.46	0.035	1
ACETONE					0.173	0.155	0.14	0.134	0.135	0.132	0.128										0.142368	11.22	0.112	1
IODOMETHANE	0.554	0.506	0.456	0.448	0.446	0.464	0.454	0.437	0.427	0.423	0.391										0.455094	9.51	0.095	1
CARBON DISULFIDE	1.705	1.476	1.315	1.309	1.274	1.268	1.234	1.208	1.183	1.198	1.162										1.30302	12.2	0.122	1
METHYLENE CHLORIDE		0.511	0.464	0.399	0.397	0.381	0.377	0.367	0.366	0.367	0.366										0.399607	12.34	0.123	1
ACRYLONITRILE	0.11	0.1	0.11	0.106	0.106	0.105	0.106	0.101	0.103	0.103	0.103										0.105047	3.21	0.032	1
n-Hexane			0.415	0.396	0.371	0.355	0.343	0.328	0.326	0.329	0.322										0.35393	9.47	0.095	1
TRANS-1,2-DICHLOROETHENE	0.397	0.401	0.416	0.37	0.381	0.383	0.382	0.372	0.369	0.375	0.366										0.382819	4.09	0.041	1

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 601-602
Review Protocol : EPA
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:41:59 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	0.931	0.92	0.982	0.951	0.956	0.958	0.946	0.896	0.893	0.903	0.896										0.930227	3.28	0.033	1
1,1-DICHLOROETHANE	0.643	0.636	0.638	0.662	0.655	0.656	0.652	0.636	0.636	0.644	0.634										0.644712	1.56	0.016	1
VINYL ACETATE	0.543	0.6	0.604	0.581	0.582	0.55	0.632	0.583	0.565	0.535	0.55										0.57511	5.17	0.052	1
DI-ISOPROPYL ETHER	1.137	1.15	1.156	1.142	1.16	1.169	1.154	1.124	1.112	1.124	1.107										1.139533	1.8	0.018	1
2,2-Dichloropropane	0.628	0.622	0.613	0.595	0.606	0.594	0.58	0.557	0.556	0.562	0.552										0.587725	4.77	0.048	1
CIS-1,2-DICHLOROETHENE	0.401	0.419	0.399	0.408	0.406	0.413	0.404	0.398	0.391	0.403	0.397										0.403528	1.91	0.019	1
2-BUTANONE (MEK)			0.222	0.188	0.186	0.174	0.165	0.157	0.163	0.159	0.161										0.175036	11.97	0.12	1
BROMOCHLOROMETHANE	0.216	0.214	0.231	0.218	0.226	0.227	0.226	0.219	0.216	0.217	0.217										0.220647	2.6	0.026	1
TETRAHYDROFURAN					0.109	0.096	0.089	0.083	0.086	0.085	0.085										0.090432	10.28	0.103	1
CHLOROFORM	0.718	0.672	0.68	0.634	0.659	0.659	0.628	0.613	0.608	0.616	0.6										0.644267	5.68	0.057	1
DIBROMOFLUOROMETHANE	0.503	0.505	0.503	0.492	0.492	0.496	0.487	0.476	0.479	0.474	0.475										0.489293	2.44	0.024	1
1,1,1-TRICHLOROETHANE	0.527	0.546	0.547	0.528	0.532	0.542	0.529	0.519	0.514	0.521	0.512										0.528772	2.32	0.023	1
CARBON TETRACHLORIDE	0.426	0.543	0.44	0.528	0.509	0.527	0.529	0.51	0.512	0.527	0.518										0.506153	7.43	0.074	1
1,1-Dichloropropene	0.477	0.494	0.474	0.469	0.479	0.49	0.485	0.47	0.47	0.474	0.463										0.47672	1.98	0.02	1
2,2,4-TRIMETHYLPENTANE	0.474	0.443	0.386	0.391	0.396	0.394	0.385	0.367	0.368	0.37	0.357										0.393778	8.9	0.089	1
HEPTANE	0.593	0.544	0.601	0.609	0.582	0.595	0.624	0.587	0.598	0.605	0.592										0.593637	3.38	0.034	1
BENZENE	1.646	1.643	1.487	1.477	1.473	1.497	1.458	1.435	1.404	1.439	1.407										1.487869	5.58	0.056	1
1,2-DICHLOROETHANE	0.434	0.399	0.426	0.411	0.429	0.437	0.439	0.422	0.431	0.432	0.43										0.426338	2.77	0.028	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.223	0.215	0.232	0.237	0.228	0.236	0.229	0.222	0.221	0.227	0.219										0.226077	3.09	0.031	1
1,2-DICHLOROPROPANE	0.157	0.175	0.172	0.162	0.16	0.156	0.158	0.153	0.153	0.155	0.149										0.15917	4.98	0.05	1
DIBROMOMETHANE	0.128	0.131	0.127	0.117	0.135	0.129	0.128	0.124	0.125	0.126	0.124										0.126822	3.63	0.036	1

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INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.327	0.362	0.328	0.306	0.296	0.297	0.286	0.283	0.278	0.283	0.275										0.301798	8.91	0.089	1
a,a,a-Trifluorotoluene	0.544	0.552	0.541	0.53	0.526	0.515	0.511	0.507	0.498	0.493	0.488										0.518753	4.18	0.042	1
-CHLOROETHYL VINYL ETHER																					0	0	0	1
CIS-1,3-DICHLOROPROPENE	0.362	0.375	0.339	0.356	0.359	0.361	0.356	0.35	0.347	0.356	0.346										0.355193	2.68	0.027	1
4-METHYL-2-PENTANONE (MIBK)	0.176	0.175	0.193	0.168	0.177	0.172	0.17	0.159	0.161	0.159	0.154										0.169592	6.5	0.065	1
TOLUENE-D8	1.163	1.17	1.151	1.139	1.131	1.125	1.107	1.098	1.099	1.092	1.086										1.123765	2.63	0.026	1
TOLUENE		1.063	0.996	1.015	0.956	0.954	0.93	0.889	0.891	0.902	0.856										0.945124	6.84	0.068	1
TRANS-1,3-DICHLOROPROPENE	0.291	0.323	0.322	0.3	0.313	0.311	0.304	0.289	0.291	0.296	0.289										0.302584	4.29	0.043	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.566	1.151	1.212	1.169	1.19	1.202	1.183	1.141	1.132	1.153	1.132										1.202763	10.27	0.103	1
TETRACHLOROETHENE	1.033	1.206	1.192	1.204	1.179	1.186	1.141	1.104	1.072	1.099	1.028										1.131372	5.96	0.06	1
1,3-Dichloropropane	2.846	2.374	2.254	2.162	2.077	2.025	2.037	1.983	1.935	2	1.928										2.147513	12.54	0.125	1
2-HEXANONE	0.571	0.524	0.511	0.494	0.493	0.475	0.451	0.438	0.444	0.451	0.445										0.481466	8.69	0.087	1
CHLORODIBROMOMETHANE	1.295	1.261	1.322	1.326	1.329	1.316	1.326	1.302	1.307	1.358	1.334										1.315908	1.9	0.019	1
1,2-DIBROMOETHANE	1.314	1.192	1.261	1.243	1.208	1.22	1.225	1.203	1.202	1.232	1.199										1.227097	2.89	0.029	1
CHLOROBENZENE	3.666	4.124	4.099	4.053	4.058	3.996	3.951	3.816	3.724	3.83	3.594										3.901109	4.74	0.047	1
1,1,1,2-TETRACHLOROETHANE	1.327	1.315	1.277	1.295	1.3	1.282	1.263	1.223	1.206	1.246	1.213										1.267847	3.26	0.033	1
ETHYLBENZENE	2.327	2.275	2.204	2.289	2.291	2.285	2.218	2.164	2.106	2.173	2.046										2.216201	3.96	0.04	1
M&P-XYLENE	3.026	3.017	2.817	2.821	2.759	2.733	2.679	2.593	2.517	2.609	2.426										2.726932	6.97	0.07	1
O-XYLENE	2.797	2.858	2.673	2.675	2.663	2.676	2.595	2.588	2.547	2.619	2.47										2.65087	4.09	0.041	1
STYRENE	4.307	4.351	4.338	4.402	4.411	4.458	4.315	4.209	4.118	4.221	3.987										4.283503	3.26	0.033	1
Bromoform	0.712	0.69	0.794	0.787	0.807	0.795	0.796	0.782	0.786	0.818	0.814										0.780079	5.26	0.053	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 601-602
Review Protocol : EPA
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:41:59 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	7.558	7.445	7.307	7.231	7.12	7.174	7.006	6.77	6.515	6.635	6.173										6.993891	6.08	0.061	1
4-BROMOFLUOROBENZENE	2.855	2.817	2.827	2.797	2.782	2.785	2.728	2.745	2.716	2.767	2.74										2.778103	1.59	0.016	1
Bromobenzene	3.43	3.055	3.035	3.126	2.963	2.945	2.909	2.79	2.743	2.824	2.675										2.954178	7.11	0.071	1
1,1,2,2-TETRACHLOROETHANE	1.71	1.667	1.595	1.599	1.567	1.504	1.523	1.455	1.452	1.462	1.45										1.54411	5.9	0.059	1
1,2,3-TRICHLOROPROPANE		0.434	0.415	0.409	0.39	0.395	0.382	0.372	0.37	0.381	0.377										0.392485	5.31	0.053	1
TRANS-1,4-DICHLORO-2-BUTENE		0.395	0.443	0.407	0.399	0.374	0.364	0.36	0.367	0.373	0.368										0.384911	6.72	0.067	1
n-Propylbenzene	8.309	8.543	8.491	8.496	8.446	8.498	8.311	8.146	7.828	8.02	7.383										8.224674	4.38	0.044	1
4-ETHYLTOLUENE	7.578	7.6	7.211	7.112	7.164	7.12	6.91	6.715	6.489	6.632	6.102										6.966719	6.53	0.065	1
2-Chlorotoluene	1.609	1.543	1.58	1.667	1.547	1.545	1.531	1.479	1.469	1.516	1.447										1.539525	4.15	0.041	1
4-Chlorotoluene	5.56	5.458	4.91	5.1	5.031	5.053	5.026	4.858	4.724	4.865	4.513										5.008936	5.98	0.06	1
1,3,5-Trimethylbenzene	5.673	6.127	6.189	6.025	5.906	5.875	5.689	5.521	5.259	5.402	5.007										5.69755	6.56	0.066	1
tert-Butylbenzene	4.823	4.804	4.715	4.956	4.867	4.857	4.82	4.638	4.455	4.504	4.304										4.703833	4.35	0.043	1
1,2,4-Trimethylbenzene	6.396	6.244	5.991	5.865	5.893	5.78	5.619	5.399	5.227	5.366	4.973										5.704733	7.63	0.076	1
sec-Butylbenzene	7.834	7.941	7.735	7.902	7.882	7.88	7.581	7.341	7.033	7.195	6.621										7.540401	5.8	0.058	1
1,3-DICHLOROBENZENE	3.033	3.104	3.159	3.154	3.154	3.124	3.07	3.01	2.923	2.964	2.758										3.041304	4.05	0.041	1
p-Isopropyltoluene	6.536	6.501	6.363	6.421	6.428	6.428	6.213	5.926	5.736	5.85	5.408										6.164728	6.09	0.061	1
DICYCLOPENTADIENE	6.04	6.04	7.063	6.738	6.882	6.947	6.745	6.413	6.241	6.339	5.968										6.492368	6.13	0.061	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.095	1.143	1.142	1.068	1.078	1.074	1.059	1.027	1.008	1.02	0.954										1.060704	5.34	0.053	1
1,2,3-TRIMETHYLBENZENE			3.093	2.532	2.208	2.083	2.029	1.938	1.88	1.899	1.784										2.16086	19.16	0.999	0
1,2-DICHLOROBENZENE	0.981	1.048	1.094	1.041	1.039	1.042	1.036	1.009	0.992	1.002	0.952										1.021456	3.82	0.038	1
n-Butylbenzene		2.681	2.447	2.252	2.19	2.237	2.185	2.112	2.028	2.037	1.885										2.20537	10.24	0.102	1

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 601-602
Review Protocol : EPA
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:41:59 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane		0.091	0.115	0.098	0.097	0.101	0.104	0.104	0.108	0.111	0.113										0.10407	7.3	0.073	1
1,2,4-Trichlorobenzene	0.552	0.631	0.671	0.664	0.676	0.688	0.685	0.668	0.635	0.639	0.605										0.646706	6.28	0.063	1
HEXACHLORO-1,3-BUTADIENE	0.309	0.365	0.357	0.352	0.36	0.355	0.333	0.338	0.325	0.332	0.328										0.341475	5.18	0.052	1
Naphthalene	1.543	1.482	1.49	1.426	1.463	1.495	1.528	1.499	1.492	1.505	1.46										1.489473	2.16	0.022	1
1,2,3-Trichlorobenzene	0.526	0.585	0.594	0.579	0.593	0.603	0.603	0.592	0.563	0.578	0.551										0.578804	4.1	0.041	1
1-Methylnaphthalene	0.515	0.505	0.483	0.527	0.55	0.566	0.591	0.597	0.602	0.616	0.62										0.561062	8.57	0.086	1
2-Methylnaphthalene	0.468	0.475	0.442	0.487	0.486	0.498	0.506	0.486	0.496	0.511	0.493										0.486049	3.95	0.04	1
4P9-PENTAFLUOROBENZENE																								
ETHANOL												0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004234	9.19	0.092	1
Bromoethane												0.321	0.318	0.318	0.321	0.326	0.328	0.338	0.334	0.331	0.326079	2.19	0.022	1
2-PROPANOL												0.03	0.025	0.023	0.021	0.021	0.021	0.023	0.021	0.021	0.022726	13.68	0.137	1
Methyl Acetate												0.212	0.2	0.208	0.206	0.199	0.201	0.207	0.207	0.201	0.204529	2.22	0.022	1
ACETONITRILE												0.035	0.033	0.034	0.034	0.032	0.034	0.035	0.034	0.034	0.033858	2.65	0.026	1
ALLYL CHLORIDE												0.194	0.179	0.179	0.185	0.181	0.183	0.185	0.183	0.181	0.18335	2.49	0.025	1
tert-BUTYL ALCOHOL												0.068	0.059	0.063	0.06	0.059	0.058	0.062	0.063	0.062	0.061569	4.77	0.048	1
chloroprene												0.583	0.56	0.556	0.549	0.54	0.554	0.559	0.548	0.543	0.554645	2.27	0.023	1
ETHYL TERT-BUTYL ETHER												1.077	1.025	1.041	1.011	1.028	1.033	1.049	1.041	1.039	1.038207	1.75	0.018	1
PROPIONITRILE												0.04	0.037	0.039	0.038	0.037	0.038	0.039	0.039	0.038	0.038501	2.91	0.029	1
Ethyl Acetate												0.263	0.245	0.266	0.253	0.25	0.26	0.269	0.268	0.258	0.259177	3.2	0.032	1
METHACRYLONITRILE												0.127	0.121	0.123	0.12	0.118	0.12	0.123	0.122	0.119	0.121516	2.23	0.022	1
Cyclohexane												1.033	0.943	0.958	0.935	0.909	0.949	0.958	0.945	0.937	0.951894	3.56	0.036	1
tert-butyl formate												0.09	0.09	0.092	0.087	0.091	0.093	0.093	0.099	0.096	0.092314	3.97	0.04	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 601-602
Review Protocol : EPA
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:41:59 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.017	0.016	0.016	0.016	0.015	0.016	0.017	0.016	0.016	0.016006	2.73	0.027	1
t-Amyl Alcohol												0.027	0.026	0.027	0.023	0.024	0.026	0.028	0.026	0.026	0.025969	6.03	0.06	1
TERT-AMYL METHYL ETHER												1.198	1.098	1.092	1.051	1.064	1.07	1.077	1.06	1.063	1.085946	4.12	0.041	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003861	11.22	0.112	1
Methyl Cyclohexane												0.986	0.697	0.618	0.573	0.567	0.563	0.563	0.548	0.54	0.628586	22.68	1	0
2-nitropropane												0.051	0.045	0.047	0.046	0.045	0.046	0.048	0.047	0.047	0.047009	3.67	0.037	1
METHYL METHACRYLATE												0.165	0.159	0.166	0.162	0.16	0.16	0.162	0.159	0.159	0.161422	1.56	0.016	1
1,4-DIOXANE												0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002435	15.25	0.152	1
n-octane												0.248	0.226	0.225	0.216	0.223	0.222	0.226	0.225	0.22	0.225715	4.05	0.04	1
3,3-DIMETHYL-1-BUTANOL												0.024	0.02	0.018	0.017	0.017	0.018	0.019	0.02	0.018	0.018967	10.62	0.106	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.42	1.33	1.371	1.308	1.343	1.354	1.411	1.383	1.394	1.368333	2.74	0.027	1
CIS-1,4-DICHLORO-2-BUTENE												0.351	0.332	0.345	0.344	0.344	0.347	0.365	0.353	0.354	0.348203	2.61	0.026	1
Cyclohexanone												0.208	0.2	0.194	0.213	0.193	0.177	0.239	0.202	0.218	0.204764	8.58	0.086	1
PENTACHLOROETHANE												0.678	0.712	0.837	0.725	0.808	0.827	0.698	0.786	0.705	0.752843	8.13	0.081	1
Hexachloroethane												0.987	1.02	0.999	1.024	1.044	1.067	1.098	1.06	1.091	1.043409	3.74	0.037	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 624
Review Protocol : EPA
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:42:56 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
4260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION	786	1233	1410	1408	1427	1410	1388														1294.561	18.08	0.999	0
PROPENE				0.154	0.118	0.108	0.1	0.096	0.096	0.098	0.098										0.10857	18.23	1	0
DICHLORODIFLUOROMETHANE	0.454	0.381	0.372	0.374	0.366	0.369	0.373	0.367	0.368	0.371	0.365										0.378186	6.77	0.068	1
CHLOROMETHANE		0.554	0.505	0.458	0.445	0.448	0.442	0.433	0.43	0.44	0.432										0.458694	8.7	0.087	1
VINYL CHLORIDE	0.412	0.422	0.47	0.451	0.465	0.465	0.471	0.467	0.463	0.467	0.459										0.455652	4.39	0.044	1
1,3-BUTADIENE		0.432	0.366	0.328	0.337	0.338	0.336	0.325	0.316	0.318	0.304										0.34012	10.71	0.107	1
BROMOMETHANE					0.249	0.21	0.186	0.177	0.175	0.182	0.167										0.1924	14.67	0.147	1
CHLOROETHANE					0.244	0.249	0.232	0.213	0.185												0.224588	11.67	0.117	1
TRICHLOROFLUOROMETHANE	0.519	0.503	0.553	0.512	0.52	0.55	0.528	0.529	0.507	0.497	0.454										0.515555	5.24	0.052	1
DICHLOROFLUOROMETHANE	0.756	0.744	0.73	0.676	0.672	0.682	0.668	0.661	0.663	0.662	0.627										0.685528	5.86	0.059	1
ETHYL ETHER	0.319	0.296	0.287	0.265	0.273	0.276	0.276	0.269	0.267	0.272	0.269										0.279066	5.75	0.057	1
ACROLEIN			0.06	0.056	0.057	0.055	0.054	0.051	0.052	0.052	0.053										0.054423	5.49	0.055	1
1,1-DICHLOROETHENE	0.496	0.516	0.528	0.513	0.533	0.548	0.543	0.529	0.521	0.525	0.51										0.52391	2.89	0.029	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.322	0.365	0.351	0.341	0.347	0.356	0.36	0.347	0.341	0.344	0.336										0.346362	3.46	0.035	1
ACETONE					0.173	0.155	0.14	0.134	0.135	0.132	0.128										0.142368	11.22	0.112	1
IODOMETHANE	0.554	0.506	0.456	0.448	0.446	0.464	0.454	0.437	0.427	0.423	0.391										0.455094	9.51	0.095	1
CARBON DISULFIDE	1.705	1.476	1.315	1.309	1.274	1.268	1.234	1.208	1.183	1.198	1.162										1.30302	12.2	0.122	1
METHYLENE CHLORIDE		0.511	0.464	0.399	0.397	0.381	0.377	0.367	0.366	0.367	0.366										0.399607	12.34	0.123	1
ACRYLONITRILE	0.11	0.1	0.11	0.106	0.106	0.105	0.106	0.101	0.103	0.103	0.103										0.105047	3.21	0.032	1
n-Hexane			0.415	0.396	0.371	0.355	0.343	0.328	0.326	0.329	0.322										0.35393	9.47	0.095	1
TRANS-1,2-DICHLOROETHENE	0.397	0.401	0.416	0.37	0.381	0.383	0.382	0.372	0.369	0.375	0.366										0.382819	4.09	0.041	1

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Released On : 9/7/2015 2:42:56 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	0.931	0.92	0.982	0.951	0.956	0.958	0.946	0.896	0.893	0.903	0.896										0.930227	3.28	0.033	1
1,1-DICHLOROETHANE	0.643	0.636	0.638	0.662	0.655	0.656	0.652	0.636	0.636	0.644	0.634										0.644712	1.56	0.016	1
VINYL ACETATE	0.543	0.6	0.604	0.581	0.582	0.55	0.632	0.583	0.565	0.535	0.55										0.57511	5.17	0.052	1
DI-ISOPROPYL ETHER	1.137	1.15	1.156	1.142	1.16	1.169	1.154	1.124	1.112	1.124	1.107										1.139533	1.8	0.018	1
2,2-Dichloropropane	0.628	0.622	0.613	0.595	0.606	0.594	0.58	0.557	0.556	0.562	0.552										0.587725	4.77	0.048	1
CIS-1,2-DICHLOROETHENE	0.401	0.419	0.399	0.408	0.406	0.413	0.404	0.398	0.391	0.403	0.397										0.403528	1.91	0.019	1
2-BUTANONE (MEK)			0.222	0.188	0.186	0.174	0.165	0.157	0.163	0.159	0.161										0.175036	11.97	0.12	1
BROMOCHLOROMETHANE	0.216	0.214	0.231	0.218	0.226	0.227	0.226	0.219	0.216	0.217	0.217										0.220647	2.6	0.026	1
TETRAHYDROFURAN					0.109	0.096	0.089	0.083	0.086	0.085	0.085										0.090432	10.28	0.103	1
CHLOROFORM	0.718	0.672	0.68	0.634	0.659	0.659	0.628	0.613	0.608	0.616	0.6										0.644267	5.68	0.057	1
DIBROMOFLUOROMETHANE	0.503	0.505	0.503	0.492	0.492	0.496	0.487	0.476	0.479	0.474	0.475										0.489293	2.44	0.024	1
1,1,1-TRICHLOROETHANE	0.527	0.546	0.547	0.528	0.532	0.542	0.529	0.519	0.514	0.521	0.512										0.528772	2.32	0.023	1
CARBON TETRACHLORIDE	0.426	0.543	0.44	0.528	0.509	0.527	0.529	0.51	0.512	0.527	0.518										0.506153	7.43	0.074	1
1,1-Dichloropropene	0.477	0.494	0.474	0.469	0.479	0.49	0.485	0.47	0.47	0.474	0.463										0.47672	1.98	0.02	1
2,2,4-TRIMETHYLPENTANE	0.474	0.443	0.386	0.391	0.396	0.394	0.385	0.367	0.368	0.37	0.357										0.393778	8.9	0.089	1
HEPTANE	0.593	0.544	0.601	0.609	0.582	0.595	0.624	0.587	0.598	0.605	0.592										0.593637	3.38	0.034	1
BENZENE	1.646	1.643	1.487	1.477	1.473	1.497	1.458	1.435	1.404	1.439	1.407										1.487869	5.58	0.056	1
1,2-DICHLOROETHANE	0.434	0.399	0.426	0.411	0.429	0.437	0.439	0.422	0.431	0.432	0.43										0.426338	2.77	0.028	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.223	0.215	0.232	0.237	0.228	0.236	0.229	0.222	0.221	0.227	0.219										0.226077	3.09	0.031	1
1,2-DICHLOROPROPANE	0.157	0.175	0.172	0.162	0.16	0.156	0.158	0.153	0.153	0.155	0.149										0.15917	4.98	0.05	1
DIBROMOMETHANE	0.128	0.131	0.127	0.117	0.135	0.129	0.128	0.124	0.125	0.126	0.124										0.126822	3.63	0.036	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 624
Review Protocol : EPA
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:42:56 PM

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BROMODICHLOROMETHANE	0.327	0.362	0.328	0.306	0.296	0.297	0.286	0.283	0.278	0.283	0.275										0.301798	8.91	0.089	1
a,a,a-Trifluorotoluene	0.544	0.552	0.541	0.53	0.526	0.515	0.511	0.507	0.498	0.493	0.488										0.518753	4.18	0.042	1
-CHLOROETHYL VINYL ETHER																					0	0	0	1
CIS-1,3-DICHLOROPROPENE	0.362	0.375	0.339	0.356	0.359	0.361	0.356	0.35	0.347	0.356	0.346										0.355193	2.68	0.027	1
4-METHYL-2-PENTANONE (MIBK)	0.176	0.175	0.193	0.168	0.177	0.172	0.17	0.159	0.161	0.159	0.154										0.169592	6.5	0.065	1
TOLUENE-D8	1.163	1.17	1.151	1.139	1.131	1.125	1.107	1.098	1.099	1.092	1.086										1.123765	2.63	0.026	1
TOLUENE		1.063	0.996	1.015	0.956	0.954	0.93	0.889	0.891	0.902	0.856										0.945124	6.84	0.068	1
TRANS-1,3-DICHLOROPROPENE	0.291	0.323	0.322	0.3	0.313	0.311	0.304	0.289	0.291	0.296	0.289										0.302584	4.29	0.043	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.566	1.151	1.212	1.169	1.19	1.202	1.183	1.141	1.132	1.153	1.132										1.202763	10.27	0.103	1
TETRACHLOROETHENE	1.033	1.206	1.192	1.204	1.179	1.186	1.141	1.104	1.072	1.099	1.028										1.131372	5.96	0.06	1
1,3-Dichloropropane	2.846	2.374	2.254	2.162	2.077	2.025	2.037	1.983	1.935	2	1.928										2.147513	12.54	0.125	1
2-HEXANONE	0.571	0.524	0.511	0.494	0.493	0.475	0.451	0.438	0.444	0.451	0.445										0.481466	8.69	0.087	1
CHLORODIBROMOMETHANE	1.295	1.261	1.322	1.326	1.329	1.316	1.326	1.302	1.307	1.358	1.334										1.315908	1.9	0.019	1
1,2-DIBROMOETHANE	1.314	1.192	1.261	1.243	1.208	1.22	1.225	1.203	1.202	1.232	1.199										1.227097	2.89	0.029	1
CHLOROBENZENE	3.666	4.124	4.099	4.053	4.058	3.996	3.951	3.816	3.724	3.83	3.594										3.901109	4.74	0.047	1
1,1,1,2-TETRACHLOROETHANE	1.327	1.315	1.277	1.295	1.3	1.282	1.263	1.223	1.206	1.246	1.213										1.267847	3.26	0.033	1
ETHYLBENZENE	2.327	2.275	2.204	2.289	2.291	2.285	2.218	2.164	2.106	2.173	2.046										2.216201	3.96	0.04	1
M&P-XYLENE	3.026	3.017	2.817	2.821	2.759	2.733	2.679	2.593	2.517	2.609	2.426										2.726932	6.97	0.07	1
O-XYLENE	2.797	2.858	2.673	2.675	2.663	2.676	2.595	2.588	2.547	2.619	2.47										2.65087	4.09	0.041	1
STYRENE	4.307	4.351	4.338	4.402	4.411	4.458	4.315	4.209	4.118	4.221	3.987										4.283503	3.26	0.033	1
Bromoform	0.712	0.69	0.794	0.787	0.807	0.795	0.796	0.782	0.786	0.818	0.814										0.780079	5.26	0.053	1

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Isopropylbenzene	7.558	7.445	7.307	7.231	7.12	7.174	7.006	6.77	6.515	6.635	6.173										6.993891	6.08	0.061	1
4-BROMOFLUOROBENZENE	2.855	2.817	2.827	2.797	2.782	2.785	2.728	2.745	2.716	2.767	2.74										2.778103	1.59	0.016	1
Bromobenzene	3.43	3.055	3.035	3.126	2.963	2.945	2.909	2.79	2.743	2.824	2.675										2.954178	7.11	0.071	1
1,1,2,2-TETRACHLOROETHANE	1.71	1.667	1.595	1.599	1.567	1.504	1.523	1.455	1.452	1.462	1.45										1.54411	5.9	0.059	1
1,2,3-TRICHLOROPROPANE		0.434	0.415	0.409	0.39	0.395	0.382	0.372	0.37	0.381	0.377										0.392485	5.31	0.053	1
TRANS-1,4-DICHLORO-2-BUTENE		0.395	0.443	0.407	0.399	0.374	0.364	0.36	0.367	0.373	0.368										0.384911	6.72	0.067	1
n-Propylbenzene	8.309	8.543	8.491	8.496	8.446	8.498	8.311	8.146	7.828	8.02	7.383										8.224674	4.38	0.044	1
4-ETHYLTOLUENE	7.578	7.6	7.211	7.112	7.164	7.12	6.91	6.715	6.489	6.632	6.102										6.966719	6.53	0.065	1
2-Chlorotoluene	1.609	1.543	1.58	1.667	1.547	1.545	1.531	1.479	1.469	1.516	1.447										1.539525	4.15	0.041	1
4-Chlorotoluene	5.56	5.458	4.91	5.1	5.031	5.053	5.026	4.858	4.724	4.865	4.513										5.008936	5.98	0.06	1
1,3,5-Trimethylbenzene	5.673	6.127	6.189	6.025	5.906	5.875	5.689	5.521	5.259	5.402	5.007										5.69755	6.56	0.066	1
tert-Butylbenzene	4.823	4.804	4.715	4.956	4.867	4.857	4.82	4.638	4.455	4.504	4.304										4.703833	4.35	0.043	1
1,2,4-Trimethylbenzene	6.396	6.244	5.991	5.865	5.893	5.78	5.619	5.399	5.227	5.366	4.973										5.704733	7.63	0.076	1
sec-Butylbenzene	7.834	7.941	7.735	7.902	7.882	7.88	7.581	7.341	7.033	7.195	6.621										7.540401	5.8	0.058	1
1,3-DICHLOROBENZENE	3.033	3.104	3.159	3.154	3.154	3.124	3.07	3.01	2.923	2.964	2.758										3.041304	4.05	0.041	1
p-Isopropyltoluene	6.536	6.501	6.363	6.421	6.428	6.428	6.213	5.926	5.736	5.85	5.408										6.164728	6.09	0.061	1
DICYCLOPENTADIENE	6.04	6.04	7.063	6.738	6.882	6.947	6.745	6.413	6.241	6.339	5.968										6.492368	6.13	0.061	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.095	1.143	1.142	1.068	1.078	1.074	1.059	1.027	1.008	1.02	0.954										1.060704	5.34	0.053	1
1,2,3-TRIMETHYLBENZENE			3.093	2.532	2.208	2.083	2.029	1.938	1.88	1.899	1.784										2.16086	19.16	0.999	0
1,2-DICHLOROBENZENE	0.981	1.048	1.094	1.041	1.039	1.042	1.036	1.009	0.992	1.002	0.952										1.021456	3.82	0.038	1
n-Butylbenzene		2.681	2.447	2.252	2.19	2.237	2.185	2.112	2.028	2.037	1.885										2.20537	10.24	0.102	1

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1,2-Dibromo-3-chloropropane		0.091	0.115	0.098	0.097	0.101	0.104	0.104	0.108	0.111	0.113										0.10407	7.3	0.073	1
1,2,4-Trichlorobenzene	0.552	0.631	0.671	0.664	0.676	0.688	0.685	0.668	0.635	0.639	0.605										0.646706	6.28	0.063	1
HEXACHLORO-1,3-BUTADIENE	0.309	0.365	0.357	0.352	0.36	0.355	0.333	0.338	0.325	0.332	0.328										0.341475	5.18	0.052	1
Naphthalene	1.543	1.482	1.49	1.426	1.463	1.495	1.528	1.499	1.492	1.505	1.46										1.489473	2.16	0.022	1
1,2,3-Trichlorobenzene	0.526	0.585	0.594	0.579	0.593	0.603	0.603	0.592	0.563	0.578	0.551										0.578804	4.1	0.041	1
1-Methylnaphthalene	0.515	0.505	0.483	0.527	0.55	0.566	0.591	0.597	0.602	0.616	0.62										0.561062	8.57	0.086	1
2-Methylnaphthalene	0.468	0.475	0.442	0.487	0.486	0.498	0.506	0.486	0.496	0.511	0.493										0.486049	3.95	0.04	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004234	9.19	0.092	1
Bromoethane												0.321	0.318	0.318	0.321	0.326	0.328	0.338	0.334	0.331	0.326079	2.19	0.022	1
2-PROPANOL												0.03	0.025	0.023	0.021	0.021	0.021	0.023	0.021	0.021	0.022726	13.68	0.137	1
Methyl Acetate												0.212	0.2	0.208	0.206	0.199	0.201	0.207	0.207	0.201	0.204529	2.22	0.022	1
ACETONITRILE												0.035	0.033	0.034	0.034	0.032	0.034	0.035	0.034	0.034	0.033858	2.65	0.026	1
ALLYL CHLORIDE												0.194	0.179	0.179	0.185	0.181	0.183	0.185	0.183	0.181	0.18335	2.49	0.025	1
tert-BUTYL ALCOHOL												0.068	0.059	0.063	0.06	0.059	0.058	0.062	0.063	0.062	0.061569	4.77	0.048	1
chloroprene												0.583	0.56	0.556	0.549	0.54	0.554	0.559	0.548	0.543	0.554645	2.27	0.023	1
ETHYL TERT-BUTYL ETHER												1.077	1.025	1.041	1.011	1.028	1.033	1.049	1.041	1.039	1.038207	1.75	0.018	1
PROPIONITRILE												0.04	0.037	0.039	0.038	0.037	0.038	0.039	0.039	0.038	0.038501	2.91	0.029	1
Ethyl Acetate												0.263	0.245	0.266	0.253	0.25	0.26	0.269	0.268	0.258	0.259177	3.2	0.032	1
METHACRYLONITRILE												0.127	0.121	0.123	0.12	0.118	0.12	0.123	0.122	0.119	0.121516	2.23	0.022	1
Cyclohexane												1.033	0.943	0.958	0.935	0.909	0.949	0.958	0.945	0.937	0.951894	3.56	0.036	1
tert-butyl formate												0.09	0.09	0.092	0.087	0.091	0.093	0.093	0.099	0.096	0.092314	3.97	0.04	1

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ISOBUTANOL												0.017	0.016	0.016	0.016	0.015	0.016	0.017	0.016	0.016	0.016006	2.73	0.027	1
t-Amyl Alcohol												0.027	0.026	0.027	0.023	0.024	0.026	0.028	0.026	0.026	0.025969	6.03	0.06	1
TERT-AMYL METHYL ETHER												1.198	1.098	1.092	1.051	1.064	1.07	1.077	1.06	1.063	1.085946	4.12	0.041	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003861	11.22	0.112	1
Methyl Cyclohexane												0.986	0.697	0.618	0.573	0.567	0.563	0.563	0.548	0.54	0.628586	22.68	1	0
2-nitropropane												0.051	0.045	0.047	0.046	0.045	0.046	0.048	0.047	0.047	0.047009	3.67	0.037	1
METHYL METHACRYLATE												0.165	0.159	0.166	0.162	0.16	0.16	0.162	0.159	0.159	0.161422	1.56	0.016	1
1,4-DIOXANE												0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002435	15.25	0.152	1
n-octane												0.248	0.226	0.225	0.216	0.223	0.222	0.226	0.225	0.22	0.225715	4.05	0.04	1
3,3-DIMETHYL-1-BUTANOL												0.024	0.02	0.018	0.017	0.017	0.018	0.019	0.02	0.018	0.018967	10.62	0.106	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.42	1.33	1.371	1.308	1.343	1.354	1.411	1.383	1.394	1.368333	2.74	0.027	1
CIS-1,4-DICHLORO-2-BUTENE												0.351	0.332	0.345	0.344	0.344	0.347	0.365	0.353	0.354	0.348203	2.61	0.026	1
Cyclohexanone												0.208	0.2	0.194	0.213	0.193	0.177	0.239	0.202	0.218	0.204764	8.58	0.086	1
PENTACHLOROETHANE												0.678	0.712	0.837	0.725	0.808	0.827	0.698	0.786	0.705	0.752843	8.13	0.081	1
Hexachloroethane												0.987	1.02	0.999	1.024	1.044	1.067	1.098	1.06	1.091	1.043409	3.74	0.037	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Review Method : 8260SC
Review Protocol : SC
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:43:47 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION	786	1233	1410	1408	1427	1410	1388														1294.561	18.08	0.999	0
PROPENE				0.154	0.118	0.108	0.1	0.096	0.096	0.098	0.098										0.10857	18.23	1	0
DICHLORODIFLUOROMETHANE	0.454	0.381	0.372	0.374	0.366	0.369	0.373	0.367	0.368	0.371	0.365										0.378186	6.77	0.068	1
CHLOROMETHANE		0.554	0.505	0.458	0.445	0.448	0.442	0.433	0.43	0.44	0.432										0.458694	8.7	0.087	1
VINYL CHLORIDE	0.412	0.422	0.47	0.451	0.465	0.465	0.471	0.467	0.463	0.467	0.459										0.455652	4.39	0.044	1
1,3-BUTADIENE		0.432	0.366	0.328	0.337	0.338	0.336	0.325	0.316	0.318	0.304										0.34012	10.71	0.107	1
BROMOMETHANE					0.249	0.21	0.186	0.177	0.175	0.182	0.167										0.1924	14.67	0.147	1
CHLOROETHANE					0.244	0.249	0.232	0.213	0.185												0.224588	11.67	0.117	1
TRICHLOROFLUOROMETHANE	0.519	0.503	0.553	0.512	0.52	0.55	0.528	0.529	0.507	0.497	0.454										0.515555	5.24	0.052	1
DICHLOROFLUOROMETHANE	0.756	0.744	0.73	0.676	0.672	0.682	0.668	0.661	0.663	0.662	0.627										0.685528	5.86	0.059	1
ETHYL ETHER	0.319	0.296	0.287	0.265	0.273	0.276	0.276	0.269	0.267	0.272	0.269										0.279066	5.75	0.057	1
ACROLEIN			0.06	0.056	0.057	0.055	0.054	0.051	0.052	0.052	0.053										0.054423	5.49	0.055	1
1,1-DICHLOROETHENE	0.496	0.516	0.528	0.513	0.533	0.548	0.543	0.529	0.521	0.525	0.51										0.52391	2.89	0.029	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.322	0.365	0.351	0.341	0.347	0.356	0.36	0.347	0.341	0.344	0.336										0.346362	3.46	0.035	1
ACETONE					0.173	0.155	0.14	0.134	0.135	0.132	0.128										0.142368	11.22	0.112	1
IODOMETHANE	0.554	0.506	0.456	0.448	0.446	0.464	0.454	0.437	0.427	0.423	0.391										0.455094	9.51	0.095	1
CARBON DISULFIDE	1.705	1.476	1.315	1.309	1.274	1.268	1.234	1.208	1.183	1.198	1.162										1.30302	12.2	0.122	1
METHYLENE CHLORIDE		0.511	0.464	0.399	0.397	0.381	0.377	0.367	0.366	0.367	0.366										0.399607	12.34	0.123	1
ACRYLONITRILE	0.11	0.1	0.11	0.106	0.106	0.105	0.106	0.101	0.103	0.103	0.103										0.105047	3.21	0.032	1
n-Hexane			0.415	0.396	0.371	0.355	0.343	0.328	0.326	0.329	0.322										0.35393	9.47	0.095	1
TRANS-1,2-DICHLOROETHENE	0.397	0.401	0.416	0.37	0.381	0.383	0.382	0.372	0.369	0.375	0.366										0.382819	4.09	0.041	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 8260SC
Review Protocol : SC
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:43:47 PM

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METHYL TERT-BUTYL ETHER	0.931	0.92	0.982	0.951	0.956	0.958	0.946	0.896	0.893	0.903	0.896										0.930227	3.28	0.033	1
1,1-DICHLOROETHANE	0.643	0.636	0.638	0.662	0.655	0.656	0.652	0.636	0.636	0.644	0.634										0.644712	1.56	0.016	1
VINYL ACETATE	0.543	0.6	0.604	0.581	0.582	0.55	0.632	0.583	0.565	0.535	0.55										0.57511	5.17	0.052	1
DI-ISOPROPYL ETHER	1.137	1.15	1.156	1.142	1.16	1.169	1.154	1.124	1.112	1.124	1.107										1.139533	1.8	0.018	1
2,2-Dichloropropane	0.628	0.622	0.613	0.595	0.606	0.594	0.58	0.557	0.556	0.562	0.552										0.587725	4.77	0.048	1
CIS-1,2-DICHLOROETHENE	0.401	0.419	0.399	0.408	0.406	0.413	0.404	0.398	0.391	0.403	0.397										0.403528	1.91	0.019	1
2-BUTANONE (MEK)			0.222	0.188	0.186	0.174	0.165	0.157	0.163	0.159	0.161										0.175036	11.97	0.12	1
BROMOCHLOROMETHANE	0.216	0.214	0.231	0.218	0.226	0.227	0.226	0.219	0.216	0.217	0.217										0.220647	2.6	0.026	1
TETRAHYDROFURAN					0.109	0.096	0.089	0.083	0.086	0.085	0.085										0.090432	10.28	0.103	1
CHLOROFORM	0.718	0.672	0.68	0.634	0.659	0.659	0.628	0.613	0.608	0.616	0.6										0.644267	5.68	0.057	1
DIBROMOFLUOROMETHANE	0.503	0.505	0.503	0.492	0.492	0.496	0.487	0.476	0.479	0.474	0.475										0.489293	2.44	0.024	1
1,1,1-TRICHLOROETHANE	0.527	0.546	0.547	0.528	0.532	0.542	0.529	0.519	0.514	0.521	0.512										0.528772	2.32	0.023	1
CARBON TETRACHLORIDE	0.426	0.543	0.44	0.528	0.509	0.527	0.529	0.51	0.512	0.527	0.518										0.506153	7.43	0.074	1
1,1-Dichloropropene	0.477	0.494	0.474	0.469	0.479	0.49	0.485	0.47	0.47	0.474	0.463										0.47672	1.98	0.02	1
2,2,4-TRIMETHYLPENTANE	0.474	0.443	0.386	0.391	0.396	0.394	0.385	0.367	0.368	0.37	0.357										0.393778	8.9	0.089	1
HEPTANE	0.593	0.544	0.601	0.609	0.582	0.595	0.624	0.587	0.598	0.605	0.592										0.593637	3.38	0.034	1
BENZENE	1.646	1.643	1.487	1.477	1.473	1.497	1.458	1.435	1.404	1.439	1.407										1.487869	5.58	0.056	1
1,2-DICHLOROETHANE	0.434	0.399	0.426	0.411	0.429	0.437	0.439	0.422	0.431	0.432	0.43										0.426338	2.77	0.028	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.223	0.215	0.232	0.237	0.228	0.236	0.229	0.222	0.221	0.227	0.219										0.226077	3.09	0.031	1
1,2-DICHLOROPROPANE	0.157	0.175	0.172	0.162	0.16	0.156	0.158	0.153	0.153	0.155	0.149										0.15917	4.98	0.05	1
DIBROMOMETHANE	0.128	0.131	0.127	0.117	0.135	0.129	0.128	0.124	0.125	0.126	0.124										0.126822	3.63	0.036	1

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BROMODICHLOROMETHANE	0.327	0.362	0.328	0.306	0.296	0.297	0.286	0.283	0.278	0.283	0.275										0.301798	8.91	0.089	1
a,a,a-Trifluorotoluene	0.544	0.552	0.541	0.53	0.526	0.515	0.511	0.507	0.498	0.493	0.488										0.518753	4.18	0.042	1
-CHLOROETHYL VINYL ETHER																					0	0	0	1
CIS-1,3-DICHLOROPROPENE	0.362	0.375	0.339	0.356	0.359	0.361	0.356	0.35	0.347	0.356	0.346										0.355193	2.68	0.027	1
4-METHYL-2-PENTANONE (MIBK)	0.176	0.175	0.193	0.168	0.177	0.172	0.17	0.159	0.161	0.159	0.154										0.169592	6.5	0.065	1
TOLUENE-D8	1.163	1.17	1.151	1.139	1.131	1.125	1.107	1.098	1.099	1.092	1.086										1.123765	2.63	0.026	1
TOLUENE		1.063	0.996	1.015	0.956	0.954	0.93	0.889	0.891	0.902	0.856										0.945124	6.84	0.068	1
TRANS-1,3-DICHLOROPROPENE	0.291	0.323	0.322	0.3	0.313	0.311	0.304	0.289	0.291	0.296	0.289										0.302584	4.29	0.043	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.566	1.151	1.212	1.169	1.19	1.202	1.183	1.141	1.132	1.153	1.132										1.202763	10.27	0.103	1
TETRACHLOROETHENE	1.033	1.206	1.192	1.204	1.179	1.186	1.141	1.104	1.072	1.099	1.028										1.131372	5.96	0.06	1
1,3-Dichloropropane	2.846	2.374	2.254	2.162	2.077	2.025	2.037	1.983	1.935	2	1.928										2.147513	12.54	0.125	1
2-HEXANONE	0.571	0.524	0.511	0.494	0.493	0.475	0.451	0.438	0.444	0.451	0.445										0.481466	8.69	0.087	1
CHLORODIBROMOMETHANE	1.295	1.261	1.322	1.326	1.329	1.316	1.326	1.302	1.307	1.358	1.334										1.315908	1.9	0.019	1
1,2-DIBROMOETHANE	1.314	1.192	1.261	1.243	1.208	1.22	1.225	1.203	1.202	1.232	1.199										1.227097	2.89	0.029	1
CHLOROBENZENE	3.666	4.124	4.099	4.053	4.058	3.996	3.951	3.816	3.724	3.83	3.594										3.901109	4.74	0.047	1
1,1,1,2-TETRACHLOROETHANE	1.327	1.315	1.277	1.295	1.3	1.282	1.263	1.223	1.206	1.246	1.213										1.267847	3.26	0.033	1
ETHYLBENZENE	2.327	2.275	2.204	2.289	2.291	2.285	2.218	2.164	2.106	2.173	2.046										2.216201	3.96	0.04	1
M&P-XYLENE	3.026	3.017	2.817	2.821	2.759	2.733	2.679	2.593	2.517	2.609	2.426										2.726932	6.97	0.07	1
O-XYLENE	2.797	2.858	2.673	2.675	2.663	2.676	2.595	2.588	2.547	2.619	2.47										2.65087	4.09	0.041	1
STYRENE	4.307	4.351	4.338	4.402	4.411	4.458	4.315	4.209	4.118	4.221	3.987										4.283503	3.26	0.033	1
Bromoform	0.712	0.69	0.794	0.787	0.807	0.795	0.796	0.782	0.786	0.818	0.814										0.780079	5.26	0.053	1

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Isopropylbenzene	7.558	7.445	7.307	7.231	7.12	7.174	7.006	6.77	6.515	6.635	6.173										6.993891	6.08	0.061	1
4-BROMOFLUOROBENZENE	2.855	2.817	2.827	2.797	2.782	2.785	2.728	2.745	2.716	2.767	2.74										2.778103	1.59	0.016	1
Bromobenzene	3.43	3.055	3.035	3.126	2.963	2.945	2.909	2.79	2.743	2.824	2.675										2.954178	7.11	0.071	1
1,1,2,2-TETRACHLOROETHANE	1.71	1.667	1.595	1.599	1.567	1.504	1.523	1.455	1.452	1.462	1.45										1.54411	5.9	0.059	1
1,2,3-TRICHLOROPROPANE		0.434	0.415	0.409	0.39	0.395	0.382	0.372	0.37	0.381	0.377										0.392485	5.31	0.053	1
TRANS-1,4-DICHLORO-2-BUTENE		0.395	0.443	0.407	0.399	0.374	0.364	0.36	0.367	0.373	0.368										0.384911	6.72	0.067	1
n-Propylbenzene	8.309	8.543	8.491	8.496	8.446	8.498	8.311	8.146	7.828	8.02	7.383										8.224674	4.38	0.044	1
4-ETHYLTOLUENE	7.578	7.6	7.211	7.112	7.164	7.12	6.91	6.715	6.489	6.632	6.102										6.966719	6.53	0.065	1
2-Chlorotoluene	1.609	1.543	1.58	1.667	1.547	1.545	1.531	1.479	1.469	1.516	1.447										1.539525	4.15	0.041	1
4-Chlorotoluene	5.56	5.458	4.91	5.1	5.031	5.053	5.026	4.858	4.724	4.865	4.513										5.008936	5.98	0.06	1
1,3,5-Trimethylbenzene	5.673	6.127	6.189	6.025	5.906	5.875	5.689	5.521	5.259	5.402	5.007										5.69755	6.56	0.066	1
tert-Butylbenzene	4.823	4.804	4.715	4.956	4.867	4.857	4.82	4.638	4.455	4.504	4.304										4.703833	4.35	0.043	1
1,2,4-Trimethylbenzene	6.396	6.244	5.991	5.865	5.893	5.78	5.619	5.399	5.227	5.366	4.973										5.704733	7.63	0.076	1
sec-Butylbenzene	7.834	7.941	7.735	7.902	7.882	7.88	7.581	7.341	7.033	7.195	6.621										7.540401	5.8	0.058	1
1,3-DICHLOROBENZENE	3.033	3.104	3.159	3.154	3.154	3.124	3.07	3.01	2.923	2.964	2.758										3.041304	4.05	0.041	1
p-Isopropyltoluene	6.536	6.501	6.363	6.421	6.428	6.428	6.213	5.926	5.736	5.85	5.408										6.164728	6.09	0.061	1
DICYCLOPENTADIENE	6.04	6.04	7.063	6.738	6.882	6.947	6.745	6.413	6.241	6.339	5.968										6.492368	6.13	0.061	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.095	1.143	1.142	1.068	1.078	1.074	1.059	1.027	1.008	1.02	0.954										1.060704	5.34	0.053	1
1,2,3-TRIMETHYLBENZENE			3.093	2.532	2.208	2.083	2.029	1.938	1.88	1.899	1.784										2.16086	19.16	0.999	0
1,2-DICHLOROBENZENE	0.981	1.048	1.094	1.041	1.039	1.042	1.036	1.009	0.992	1.002	0.952										1.021456	3.82	0.038	1
n-Butylbenzene		2.681	2.447	2.252	2.19	2.237	2.185	2.112	2.028	2.037	1.885										2.20537	10.24	0.102	1

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1,2-Dibromo-3-chloropropane		0.091	0.115	0.098	0.097	0.101	0.104	0.104	0.108	0.111	0.113										0.10407	7.3	0.073	1
1,2,4-Trichlorobenzene	0.552	0.631	0.671	0.664	0.676	0.688	0.685	0.668	0.635	0.639	0.605										0.646706	6.28	0.063	1
HEXACHLORO-1,3-BUTADIENE	0.309	0.365	0.357	0.352	0.36	0.355	0.333	0.338	0.325	0.332	0.328										0.341475	5.18	0.052	1
Naphthalene	1.543	1.482	1.49	1.426	1.463	1.495	1.528	1.499	1.492	1.505	1.46										1.489473	2.16	0.022	1
1,2,3-Trichlorobenzene	0.526	0.585	0.594	0.579	0.593	0.603	0.603	0.592	0.563	0.578	0.551										0.578804	4.1	0.041	1
1-Methylnaphthalene	0.515	0.505	0.483	0.527	0.55	0.566	0.591	0.597	0.602	0.616	0.62										0.561062	8.57	0.086	1
2-Methylnaphthalene	0.468	0.475	0.442	0.487	0.486	0.498	0.506	0.486	0.496	0.511	0.493										0.486049	3.95	0.04	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004234	9.19	0.092	1
Bromoethane												0.321	0.318	0.318	0.321	0.326	0.328	0.338	0.334	0.331	0.326079	2.19	0.022	1
2-PROPANOL												0.03	0.025	0.023	0.021	0.021	0.021	0.023	0.021	0.021	0.022726	13.68	0.137	1
Methyl Acetate												0.212	0.2	0.208	0.206	0.199	0.201	0.207	0.207	0.201	0.204529	2.22	0.022	1
ACETONITRILE												0.035	0.033	0.034	0.034	0.032	0.034	0.035	0.034	0.034	0.033858	2.65	0.026	1
ALLYL CHLORIDE												0.194	0.179	0.179	0.185	0.181	0.183	0.185	0.183	0.181	0.18335	2.49	0.025	1
tert-BUTYL ALCOHOL												0.068	0.059	0.063	0.06	0.059	0.058	0.062	0.063	0.062	0.061569	4.77	0.048	1
chloroprene												0.583	0.56	0.556	0.549	0.54	0.554	0.559	0.548	0.543	0.554645	2.27	0.023	1
ETHYL TERT-BUTYL ETHER												1.077	1.025	1.041	1.011	1.028	1.033	1.049	1.041	1.039	1.038207	1.75	0.018	1
PROPIONITRILE												0.04	0.037	0.039	0.038	0.037	0.038	0.039	0.039	0.038	0.038501	2.91	0.029	1
Ethyl Acetate												0.263	0.245	0.266	0.253	0.25	0.26	0.269	0.268	0.258	0.259177	3.2	0.032	1
METHACRYLONITRILE												0.127	0.121	0.123	0.12	0.118	0.12	0.123	0.122	0.119	0.121516	2.23	0.022	1
Cyclohexane												1.033	0.943	0.958	0.935	0.909	0.949	0.958	0.945	0.937	0.951894	3.56	0.036	1
tert-butyl formate												0.09	0.09	0.092	0.087	0.091	0.093	0.093	0.099	0.096	0.092314	3.97	0.04	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 8260SC
Review Protocol : SC
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:43:47 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.017	0.016	0.016	0.016	0.015	0.016	0.017	0.016	0.016	0.016006	2.73	0.027	1
t-Amyl Alcohol												0.027	0.026	0.027	0.023	0.024	0.026	0.028	0.026	0.026	0.025969	6.03	0.06	1
TERT-AMYL METHYL ETHER												1.198	1.098	1.092	1.051	1.064	1.07	1.077	1.06	1.063	1.085946	4.12	0.041	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003861	11.22	0.112	1
Methyl Cyclohexane												0.986	0.697	0.618	0.573	0.567	0.563	0.563	0.548	0.54	0.628586	22.68	1	0
2-nitropropane												0.051	0.045	0.047	0.046	0.045	0.046	0.048	0.047	0.047	0.047009	3.67	0.037	1
METHYL METHACRYLATE												0.165	0.159	0.166	0.162	0.16	0.16	0.162	0.159	0.159	0.161422	1.56	0.016	1
1,4-DIOXANE												0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002435	15.25	0.152	1
n-octane												0.248	0.226	0.225	0.216	0.223	0.222	0.226	0.225	0.22	0.225715	4.05	0.04	1
3,3-DIMETHYL-1-BUTANOL												0.024	0.02	0.018	0.017	0.017	0.018	0.019	0.02	0.018	0.018967	10.62	0.106	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.42	1.33	1.371	1.308	1.343	1.354	1.411	1.383	1.394	1.368333	2.74	0.027	1
CIS-1,4-DICHLORO-2-BUTENE												0.351	0.332	0.345	0.344	0.344	0.347	0.365	0.353	0.354	0.348203	2.61	0.026	1
Cyclohexanone												0.208	0.2	0.194	0.213	0.193	0.177	0.239	0.202	0.218	0.204764	8.58	0.086	1
PENTACHLOROETHANE												0.678	0.712	0.837	0.725	0.808	0.827	0.698	0.786	0.705	0.752843	8.13	0.081	1
Hexachloroethane												0.987	1.02	0.999	1.024	1.044	1.067	1.098	1.06	1.091	1.043409	3.74	0.037	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 6200
Review Protocol : SM 20th
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:44:41 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
4260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION	786	1233	1410	1408	1427	1410	1388														1294.561	18.08	0.999	0
PROPENE				0.154	0.118	0.108	0.1	0.096	0.096	0.098	0.098										0.10857	18.23	1	0
DICHLORODIFLUOROMETHANE	0.454	0.381	0.372	0.374	0.366	0.369	0.373	0.367	0.368	0.371	0.365										0.378186	6.77	0.068	1
CHLOROMETHANE		0.554	0.505	0.458	0.445	0.448	0.442	0.433	0.43	0.44	0.432										0.458694	8.7	0.087	1
VINYL CHLORIDE	0.412	0.422	0.47	0.451	0.465	0.465	0.471	0.467	0.463	0.467	0.459										0.455652	4.39	0.044	1
1,3-BUTADIENE		0.432	0.366	0.328	0.337	0.338	0.336	0.325	0.316	0.318	0.304										0.34012	10.71	0.107	1
BROMOMETHANE					0.249	0.21	0.186	0.177	0.175	0.182	0.167										0.1924	14.67	0.147	1
CHLOROETHANE					0.244	0.249	0.232	0.213	0.185												0.224588	11.67	0.117	1
TRICHLOROFLUOROMETHANE	0.519	0.503	0.553	0.512	0.52	0.55	0.528	0.529	0.507	0.497	0.454										0.515555	5.24	0.052	1
DICHLOROFLUOROMETHANE	0.756	0.744	0.73	0.676	0.672	0.682	0.668	0.661	0.663	0.662	0.627										0.685528	5.86	0.059	1
ETHYL ETHER	0.319	0.296	0.287	0.265	0.273	0.276	0.276	0.269	0.267	0.272	0.269										0.279066	5.75	0.057	1
ACROLEIN			0.06	0.056	0.057	0.055	0.054	0.051	0.052	0.052	0.053										0.054423	5.49	0.055	1
1,1-DICHLOROETHENE	0.496	0.516	0.528	0.513	0.533	0.548	0.543	0.529	0.521	0.525	0.51										0.52391	2.89	0.029	1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.322	0.365	0.351	0.341	0.347	0.356	0.36	0.347	0.341	0.344	0.336										0.346362	3.46	0.035	1
ACETONE					0.173	0.155	0.14	0.134	0.135	0.132	0.128										0.142368	11.22	0.112	1
IODOMETHANE	0.554	0.506	0.456	0.448	0.446	0.464	0.454	0.437	0.427	0.423	0.391										0.455094	9.51	0.095	1
CARBON DISULFIDE	1.705	1.476	1.315	1.309	1.274	1.268	1.234	1.208	1.183	1.198	1.162										1.30302	12.2	0.122	1
METHYLENE CHLORIDE		0.511	0.464	0.399	0.397	0.381	0.377	0.367	0.366	0.367	0.366										0.399607	12.34	0.123	1
ACRYLONITRILE	0.11	0.1	0.11	0.106	0.106	0.105	0.106	0.101	0.103	0.103	0.103										0.105047	3.21	0.032	1
n-Hexane			0.415	0.396	0.371	0.355	0.343	0.328	0.326	0.329	0.322										0.35393	9.47	0.095	1
TRANS-1,2-DICHLOROETHENE	0.397	0.401	0.416	0.37	0.381	0.383	0.382	0.372	0.369	0.375	0.366										0.382819	4.09	0.041	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 6200
Review Protocol : SM 20th
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:44:41 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER	0.931	0.92	0.982	0.951	0.956	0.958	0.946	0.896	0.893	0.903	0.896										0.930227	3.28	0.033	1
1,1-DICHLOROETHANE	0.643	0.636	0.638	0.662	0.655	0.656	0.652	0.636	0.636	0.644	0.634										0.644712	1.56	0.016	1
VINYL ACETATE	0.543	0.6	0.604	0.581	0.582	0.55	0.632	0.583	0.565	0.535	0.55										0.57511	5.17	0.052	1
DI-ISOPROPYL ETHER	1.137	1.15	1.156	1.142	1.16	1.169	1.154	1.124	1.112	1.124	1.107										1.139533	1.8	0.018	1
2,2-Dichloropropane	0.628	0.622	0.613	0.595	0.606	0.594	0.58	0.557	0.556	0.562	0.552										0.587725	4.77	0.048	1
CIS-1,2-DICHLOROETHENE	0.401	0.419	0.399	0.408	0.406	0.413	0.404	0.398	0.391	0.403	0.397										0.403528	1.91	0.019	1
2-BUTANONE (MEK)			0.222	0.188	0.186	0.174	0.165	0.157	0.163	0.159	0.161										0.175036	11.97	0.12	1
BROMOCHLOROMETHANE	0.216	0.214	0.231	0.218	0.226	0.227	0.226	0.219	0.216	0.217	0.217										0.220647	2.6	0.026	1
TETRAHYDROFURAN					0.109	0.096	0.089	0.083	0.086	0.085	0.085										0.090432	10.28	0.103	1
CHLOROFORM	0.718	0.672	0.68	0.634	0.659	0.659	0.628	0.613	0.608	0.616	0.6										0.644267	5.68	0.057	1
DIBROMOFLUOROMETHANE	0.503	0.505	0.503	0.492	0.492	0.496	0.487	0.476	0.479	0.474	0.475										0.489293	2.44	0.024	1
1,1,1-TRICHLOROETHANE	0.527	0.546	0.547	0.528	0.532	0.542	0.529	0.519	0.514	0.521	0.512										0.528772	2.32	0.023	1
CARBON TETRACHLORIDE	0.426	0.543	0.44	0.528	0.509	0.527	0.529	0.51	0.512	0.527	0.518										0.506153	7.43	0.074	1
1,1-Dichloropropene	0.477	0.494	0.474	0.469	0.479	0.49	0.485	0.47	0.47	0.474	0.463										0.47672	1.98	0.02	1
2,2,4-TRIMETHYLPENTANE	0.474	0.443	0.386	0.391	0.396	0.394	0.385	0.367	0.368	0.37	0.357										0.393778	8.9	0.089	1
HEPTANE	0.593	0.544	0.601	0.609	0.582	0.595	0.624	0.587	0.598	0.605	0.592										0.593637	3.38	0.034	1
BENZENE	1.646	1.643	1.487	1.477	1.473	1.497	1.458	1.435	1.404	1.439	1.407										1.487869	5.58	0.056	1
1,2-DICHLOROETHANE	0.434	0.399	0.426	0.411	0.429	0.437	0.439	0.422	0.431	0.432	0.43										0.426338	2.77	0.028	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE	0.223	0.215	0.232	0.237	0.228	0.236	0.229	0.222	0.221	0.227	0.219										0.226077	3.09	0.031	1
1,2-DICHLOROPROPANE	0.157	0.175	0.172	0.162	0.16	0.156	0.158	0.153	0.153	0.155	0.149										0.15917	4.98	0.05	1
DIBROMOMETHANE	0.128	0.131	0.127	0.117	0.135	0.129	0.128	0.124	0.125	0.126	0.124										0.126822	3.63	0.036	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 6200
Review Protocol : SM 20th
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:44:41 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE	0.327	0.362	0.328	0.306	0.296	0.297	0.286	0.283	0.278	0.283	0.275										0.301798	8.91	0.089	1
a,a,a-Trifluorotoluene	0.544	0.552	0.541	0.53	0.526	0.515	0.511	0.507	0.498	0.493	0.488										0.518753	4.18	0.042	1
-CHLOROETHYL VINYL ETHER																					0	0	0	1
CIS-1,3-DICHLOROPROPENE	0.362	0.375	0.339	0.356	0.359	0.361	0.356	0.35	0.347	0.356	0.346										0.355193	2.68	0.027	1
4-METHYL-2-PENTANONE (MIBK)	0.176	0.175	0.193	0.168	0.177	0.172	0.17	0.159	0.161	0.159	0.154										0.169592	6.5	0.065	1
TOLUENE-D8	1.163	1.17	1.151	1.139	1.131	1.125	1.107	1.098	1.099	1.092	1.086										1.123765	2.63	0.026	1
TOLUENE		1.063	0.996	1.015	0.956	0.954	0.93	0.889	0.891	0.902	0.856										0.945124	6.84	0.068	1
TRANS-1,3-DICHLOROPROPENE	0.291	0.323	0.322	0.3	0.313	0.311	0.304	0.289	0.291	0.296	0.289										0.302584	4.29	0.043	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE	1.566	1.151	1.212	1.169	1.19	1.202	1.183	1.141	1.132	1.153	1.132										1.202763	10.27	0.103	1
TETRACHLOROETHENE	1.033	1.206	1.192	1.204	1.179	1.186	1.141	1.104	1.072	1.099	1.028										1.131372	5.96	0.06	1
1,3-Dichloropropane	2.846	2.374	2.254	2.162	2.077	2.025	2.037	1.983	1.935	2	1.928										2.147513	12.54	0.125	1
2-HEXANONE	0.571	0.524	0.511	0.494	0.493	0.475	0.451	0.438	0.444	0.451	0.445										0.481466	8.69	0.087	1
CHLORODIBROMOMETHANE	1.295	1.261	1.322	1.326	1.329	1.316	1.326	1.302	1.307	1.358	1.334										1.315908	1.9	0.019	1
1,2-DIBROMOETHANE	1.314	1.192	1.261	1.243	1.208	1.22	1.225	1.203	1.202	1.232	1.199										1.227097	2.89	0.029	1
CHLOROBENZENE	3.666	4.124	4.099	4.053	4.058	3.996	3.951	3.816	3.724	3.83	3.594										3.901109	4.74	0.047	1
1,1,1,2-TETRACHLOROETHANE	1.327	1.315	1.277	1.295	1.3	1.282	1.263	1.223	1.206	1.246	1.213										1.267847	3.26	0.033	1
ETHYLBENZENE	2.327	2.275	2.204	2.289	2.291	2.285	2.218	2.164	2.106	2.173	2.046										2.216201	3.96	0.04	1
M&P-XYLENE	3.026	3.017	2.817	2.821	2.759	2.733	2.679	2.593	2.517	2.609	2.426										2.726932	6.97	0.07	1
O-XYLENE	2.797	2.858	2.673	2.675	2.663	2.676	2.595	2.588	2.547	2.619	2.47										2.65087	4.09	0.041	1
STYRENE	4.307	4.351	4.338	4.402	4.411	4.458	4.315	4.209	4.118	4.221	3.987										4.283503	3.26	0.033	1
Bromoform	0.712	0.69	0.794	0.787	0.807	0.795	0.796	0.782	0.786	0.818	0.814										0.780079	5.26	0.053	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 6200
Review Protocol : SM 20th
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:44:41 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
Isopropylbenzene	7.558	7.445	7.307	7.231	7.12	7.174	7.006	6.77	6.515	6.635	6.173										6.993891	6.08	0.061	1
4-BROMOFLUOROBENZENE	2.855	2.817	2.827	2.797	2.782	2.785	2.728	2.745	2.716	2.767	2.74										2.778103	1.59	0.016	1
Bromobenzene	3.43	3.055	3.035	3.126	2.963	2.945	2.909	2.79	2.743	2.824	2.675										2.954178	7.11	0.071	1
1,1,2,2-TETRACHLOROETHANE	1.71	1.667	1.595	1.599	1.567	1.504	1.523	1.455	1.452	1.462	1.45										1.54411	5.9	0.059	1
1,2,3-TRICHLOROPROPANE		0.434	0.415	0.409	0.39	0.395	0.382	0.372	0.37	0.381	0.377										0.392485	5.31	0.053	1
TRANS-1,4-DICHLORO-2-BUTENE		0.395	0.443	0.407	0.399	0.374	0.364	0.36	0.367	0.373	0.368										0.384911	6.72	0.067	1
n-Propylbenzene	8.309	8.543	8.491	8.496	8.446	8.498	8.311	8.146	7.828	8.02	7.383										8.224674	4.38	0.044	1
4-ETHYLTOLUENE	7.578	7.6	7.211	7.112	7.164	7.12	6.91	6.715	6.489	6.632	6.102										6.966719	6.53	0.065	1
2-Chlorotoluene	1.609	1.543	1.58	1.667	1.547	1.545	1.531	1.479	1.469	1.516	1.447										1.539525	4.15	0.041	1
4-Chlorotoluene	5.56	5.458	4.91	5.1	5.031	5.053	5.026	4.858	4.724	4.865	4.513										5.008936	5.98	0.06	1
1,3,5-Trimethylbenzene	5.673	6.127	6.189	6.025	5.906	5.875	5.689	5.521	5.259	5.402	5.007										5.69755	6.56	0.066	1
tert-Butylbenzene	4.823	4.804	4.715	4.956	4.867	4.857	4.82	4.638	4.455	4.504	4.304										4.703833	4.35	0.043	1
1,2,4-Trimethylbenzene	6.396	6.244	5.991	5.865	5.893	5.78	5.619	5.399	5.227	5.366	4.973										5.704733	7.63	0.076	1
sec-Butylbenzene	7.834	7.941	7.735	7.902	7.882	7.88	7.581	7.341	7.033	7.195	6.621										7.540401	5.8	0.058	1
1,3-DICHLOROBENZENE	3.033	3.104	3.159	3.154	3.154	3.124	3.07	3.01	2.923	2.964	2.758										3.041304	4.05	0.041	1
p-Isopropyltoluene	6.536	6.501	6.363	6.421	6.428	6.428	6.213	5.926	5.736	5.85	5.408										6.164728	6.09	0.061	1
DICYCLOPENTADIENE	6.04	6.04	7.063	6.738	6.882	6.947	6.745	6.413	6.241	6.339	5.968										6.492368	6.13	0.061	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	1.095	1.143	1.142	1.068	1.078	1.074	1.059	1.027	1.008	1.02	0.954										1.060704	5.34	0.053	1
1,2,3-TRIMETHYLBENZENE			3.093	2.532	2.208	2.083	2.029	1.938	1.88	1.899	1.784										2.16086	19.16	0.999	0
1,2-DICHLOROBENZENE	0.981	1.048	1.094	1.041	1.039	1.042	1.036	1.009	0.992	1.002	0.952										1.021456	3.82	0.038	1
n-Butylbenzene		2.681	2.447	2.252	2.19	2.237	2.185	2.112	2.028	2.037	1.885										2.20537	10.24	0.102	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 6200
Review Protocol : SM 20th
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:44:41 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-Dibromo-3-chloropropane		0.091	0.115	0.098	0.097	0.101	0.104	0.104	0.108	0.111	0.113										0.10407	7.3	0.073	1
1,2,4-Trichlorobenzene	0.552	0.631	0.671	0.664	0.676	0.688	0.685	0.668	0.635	0.639	0.605										0.646706	6.28	0.063	1
HEXACHLORO-1,3-BUTADIENE	0.309	0.365	0.357	0.352	0.36	0.355	0.333	0.338	0.325	0.332	0.328										0.341475	5.18	0.052	1
Naphthalene	1.543	1.482	1.49	1.426	1.463	1.495	1.528	1.499	1.492	1.505	1.46										1.489473	2.16	0.022	1
1,2,3-Trichlorobenzene	0.526	0.585	0.594	0.579	0.593	0.603	0.603	0.592	0.563	0.578	0.551										0.578804	4.1	0.041	1
1-Methylnaphthalene	0.515	0.505	0.483	0.527	0.55	0.566	0.591	0.597	0.602	0.616	0.62										0.561062	8.57	0.086	1
2-Methylnaphthalene	0.468	0.475	0.442	0.487	0.486	0.498	0.506	0.486	0.496	0.511	0.493										0.486049	3.95	0.04	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004234	9.19	0.092	1
Bromoethane												0.321	0.318	0.318	0.321	0.326	0.328	0.338	0.334	0.331	0.326079	2.19	0.022	1
2-PROPANOL												0.03	0.025	0.023	0.021	0.021	0.021	0.023	0.021	0.021	0.022726	13.68	0.137	1
Methyl Acetate												0.212	0.2	0.208	0.206	0.199	0.201	0.207	0.207	0.201	0.204529	2.22	0.022	1
ACETONITRILE												0.035	0.033	0.034	0.034	0.032	0.034	0.035	0.034	0.034	0.033858	2.65	0.026	1
ALLYL CHLORIDE												0.194	0.179	0.179	0.185	0.181	0.183	0.185	0.183	0.181	0.18335	2.49	0.025	1
tert-BUTYL ALCOHOL												0.068	0.059	0.063	0.06	0.059	0.058	0.062	0.063	0.062	0.061569	4.77	0.048	1
chloroprene												0.583	0.56	0.556	0.549	0.54	0.554	0.559	0.548	0.543	0.554645	2.27	0.023	1
ETHYL TERT-BUTYL ETHER												1.077	1.025	1.041	1.011	1.028	1.033	1.049	1.041	1.039	1.038207	1.75	0.018	1
PROPIONITRILE												0.04	0.037	0.039	0.038	0.037	0.038	0.039	0.039	0.038	0.038501	2.91	0.029	1
Ethyl Acetate												0.263	0.245	0.266	0.253	0.25	0.26	0.269	0.268	0.258	0.259177	3.2	0.032	1
METHACRYLONITRILE												0.127	0.121	0.123	0.12	0.118	0.12	0.123	0.122	0.119	0.121516	2.23	0.022	1
Cyclohexane												1.033	0.943	0.958	0.935	0.909	0.949	0.958	0.945	0.937	0.951894	3.56	0.036	1
tert-butyl formate												0.09	0.09	0.092	0.087	0.091	0.093	0.093	0.099	0.096	0.092314	3.97	0.04	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 6200
Review Protocol : SM 20th
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:44:41 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.017	0.016	0.016	0.016	0.015	0.016	0.017	0.016	0.016	0.016006	2.73	0.027	1
t-Amyl Alcohol												0.027	0.026	0.027	0.023	0.024	0.026	0.028	0.026	0.026	0.025969	6.03	0.06	1
TERT-AMYL METHYL ETHER												1.198	1.098	1.092	1.051	1.064	1.07	1.077	1.06	1.063	1.085946	4.12	0.041	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003861	11.22	0.112	1
Methyl Cyclohexane												0.986	0.697	0.618	0.573	0.567	0.563	0.563	0.548	0.54	0.628586	22.68	1	0
2-nitropropane												0.051	0.045	0.047	0.046	0.045	0.046	0.048	0.047	0.047	0.047009	3.67	0.037	1
METHYL METHACRYLATE												0.165	0.159	0.166	0.162	0.16	0.16	0.162	0.159	0.159	0.161422	1.56	0.016	1
1,4-DIOXANE												0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002435	15.25	0.152	1
n-octane												0.248	0.226	0.225	0.216	0.223	0.222	0.226	0.225	0.22	0.225715	4.05	0.04	1
3,3-DIMETHYL-1-BUTANOL												0.024	0.02	0.018	0.017	0.017	0.018	0.019	0.02	0.018	0.018967	10.62	0.106	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.42	1.33	1.371	1.308	1.343	1.354	1.411	1.383	1.394	1.368333	2.74	0.027	1
CIS-1,4-DICHLORO-2-BUTENE												0.351	0.332	0.345	0.344	0.344	0.347	0.365	0.353	0.354	0.348203	2.61	0.026	1
Cyclohexanone												0.208	0.2	0.194	0.213	0.193	0.177	0.239	0.202	0.218	0.204764	8.58	0.086	1
PENTACHLOROETHANE												0.678	0.712	0.837	0.725	0.808	0.827	0.698	0.786	0.705	0.752843	8.13	0.081	1
Hexachloroethane												0.987	1.02	0.999	1.024	1.044	1.067	1.098	1.06	1.091	1.043409	3.74	0.037	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 8260C
Review Protocol : SW846
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:45:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
8260-PENTAFLUOROBENZENE																									
TPH (GC/MS) LOW FRACTION	786	1233	1410	1408	1427	1410	1388														1294.561	18.08	0.999	0	
PROPENE				0.154	0.118	0.108	0.1	0.096	0.096	0.098	0.098										0.10857	18.23	1	0	
DICHLORODIFLUOROMETHANE	0.454	0.381	0.372	0.374	0.366	0.369	0.373	0.367	0.368	0.371	0.365										0.378186	6.77	0.068	1	0.1
CHLOROMETHANE		0.554	0.505	0.458	0.445	0.448	0.442	0.433	0.43	0.44	0.432										0.458694	8.7	0.087	1	0.1
VINYL CHLORIDE	0.412	0.422	0.47	0.451	0.465	0.465	0.471	0.467	0.463	0.467	0.459										0.455652	4.39	0.044	1	0.1
1,3-BUTADIENE		0.432	0.366	0.328	0.337	0.338	0.336	0.325	0.316	0.318	0.304										0.34012	10.71	0.107	1	
BROMOMETHANE					0.249	0.21	0.186	0.177	0.175	0.182	0.167										0.1924	14.67	0.147	1	0.1
CHLOROETHANE					0.244	0.249	0.232	0.213	0.185												0.224588	11.67	0.117	1	0.1
TRICHLOROFLUOROMETHANE	0.519	0.503	0.553	0.512	0.52	0.55	0.528	0.529	0.507	0.497	0.454										0.515555	5.24	0.052	1	0.1
DICHLOROFLUOROMETHANE	0.756	0.744	0.73	0.676	0.672	0.682	0.668	0.661	0.663	0.662	0.627										0.685528	5.86	0.059	1	
ETHYL ETHER	0.319	0.296	0.287	0.265	0.273	0.276	0.276	0.269	0.267	0.272	0.269										0.279066	5.75	0.057	1	
ACROLEIN			0.06	0.056	0.057	0.055	0.054	0.051	0.052	0.052	0.053										0.054423	5.49	0.055	1	
1,1-DICHLOROETHENE	0.496	0.516	0.528	0.513	0.533	0.548	0.543	0.529	0.521	0.525	0.51										0.52391	2.89	0.029	1	0.1
1,1,2 -TRICHLOROTRIFLUOROETHANE	0.322	0.365	0.351	0.341	0.347	0.356	0.36	0.347	0.341	0.344	0.336										0.346362	3.46	0.035	1	0.1
ACETONE					0.173	0.155	0.14	0.134	0.135	0.132	0.128										0.142368	11.22	0.112	1	0.1
IODOMETHANE	0.554	0.506	0.456	0.448	0.446	0.464	0.454	0.437	0.427	0.423	0.391										0.455094	9.51	0.095	1	
CARBON DISULFIDE	1.705	1.476	1.315	1.309	1.274	1.268	1.234	1.208	1.183	1.198	1.162										1.30302	12.2	0.122	1	0.1
METHYLENE CHLORIDE		0.511	0.464	0.399	0.397	0.381	0.377	0.367	0.366	0.367	0.366										0.399607	12.34	0.123	1	0.1
ACRYLONITRILE	0.11	0.1	0.11	0.106	0.106	0.105	0.106	0.101	0.103	0.103	0.103										0.105047	3.21	0.032	1	
n-Hexane			0.415	0.396	0.371	0.355	0.343	0.328	0.326	0.329	0.322										0.35393	9.47	0.095	1	
TRANS-1,2-DICHLOROETHENE	0.397	0.401	0.416	0.37	0.381	0.383	0.382	0.372	0.369	0.375	0.366										0.382819	4.09	0.041	1	0.1

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 8260C
Review Protocol : SW846
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:45:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
METHYL TERT-BUTYL ETHER	0.931	0.92	0.982	0.951	0.956	0.958	0.946	0.896	0.893	0.903	0.896										0.930227	3.28	0.033	1	0.1
1,1-DICHLOROETHANE	0.643	0.636	0.638	0.662	0.655	0.656	0.652	0.636	0.636	0.644	0.634										0.644712	1.56	0.016	1	0.2
VINYL ACETATE	0.543	0.6	0.604	0.581	0.582	0.55	0.632	0.583	0.565	0.535	0.55										0.57511	5.17	0.052	1	
DI-ISOPROPYL ETHER	1.137	1.15	1.156	1.142	1.16	1.169	1.154	1.124	1.112	1.124	1.107										1.139533	1.8	0.018	1	
2,2-Dichloropropane	0.628	0.622	0.613	0.595	0.606	0.594	0.58	0.557	0.556	0.562	0.552										0.587725	4.77	0.048	1	
CIS-1,2-DICHLOROETHENE	0.401	0.419	0.399	0.408	0.406	0.413	0.404	0.398	0.391	0.403	0.397										0.403528	1.91	0.019	1	0.1
2-BUTANONE (MEK)			0.222	0.188	0.186	0.174	0.165	0.157	0.163	0.159	0.161										0.175036	11.97	0.12	1	0.1
BROMOCHLOROMETHANE	0.216	0.214	0.231	0.218	0.226	0.227	0.226	0.219	0.216	0.217	0.217										0.220647	2.6	0.026	1	
TETRAHYDROFURAN					0.109	0.096	0.089	0.083	0.086	0.085	0.085										0.090432	10.28	0.103	1	
CHLOROFORM	0.718	0.672	0.68	0.634	0.659	0.659	0.628	0.613	0.608	0.616	0.6										0.644267	5.68	0.057	1	0.2
DIBROMOFLUOROMETHANE	0.503	0.505	0.503	0.492	0.492	0.496	0.487	0.476	0.479	0.474	0.475										0.489293	2.44	0.024	1	
1,1,1-TRICHLOROETHANE	0.527	0.546	0.547	0.528	0.532	0.542	0.529	0.519	0.514	0.521	0.512										0.528772	2.32	0.023	1	0.1
CARBON TETRACHLORIDE	0.426	0.543	0.44	0.528	0.509	0.527	0.529	0.51	0.512	0.527	0.518										0.506153	7.43	0.074	1	0.1
1,1-Dichloropropene	0.477	0.494	0.474	0.469	0.479	0.49	0.485	0.47	0.47	0.474	0.463										0.47672	1.98	0.02	1	
2,2,4-TRIMETHYLPENTANE	0.474	0.443	0.386	0.391	0.396	0.394	0.385	0.367	0.368	0.37	0.357										0.393778	8.9	0.089	1	
HEPTANE	0.593	0.544	0.601	0.609	0.582	0.595	0.624	0.587	0.598	0.605	0.592										0.593637	3.38	0.034	1	
BENZENE	1.646	1.643	1.487	1.477	1.473	1.497	1.458	1.435	1.404	1.439	1.407										1.487869	5.58	0.056	1	0.5
1,2-DICHLOROETHANE	0.434	0.399	0.426	0.411	0.429	0.437	0.439	0.422	0.431	0.432	0.43										0.426338	2.77	0.028	1	0.1
8260-1,4-DIFLUOROBENZENE																									
TRICHLOROETHENE	0.223	0.215	0.232	0.237	0.228	0.236	0.229	0.222	0.221	0.227	0.219										0.226077	3.09	0.031	1	0.2
1,2-DICHLOROPROPANE	0.157	0.175	0.172	0.162	0.16	0.156	0.158	0.153	0.153	0.155	0.149										0.15917	4.98	0.05	1	0.1
DIBROMOMETHANE	0.128	0.131	0.127	0.117	0.135	0.129	0.128	0.124	0.125	0.126	0.124										0.126822	3.63	0.036	1	

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 8260C
Review Protocol : SW846
Released By : John A. Heath Jr.
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INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
BROMODICHLOROMETHANE	0.327	0.362	0.328	0.306	0.296	0.297	0.286	0.283	0.278	0.283	0.275										0.301798	8.91	0.089	1	0.2
a,a,a-Trifluorotoluene	0.544	0.552	0.541	0.53	0.526	0.515	0.511	0.507	0.498	0.493	0.488										0.518753	4.18	0.042	1	
-CHLOROETHYL VINYL ETHER																					0	0	0	1	
CIS-1,3-DICHLOROPROPENE	0.362	0.375	0.339	0.356	0.359	0.361	0.356	0.35	0.347	0.356	0.346										0.355193	2.68	0.027	1	0.2
4-METHYL-2-PENTANONE (MIBK)	0.176	0.175	0.193	0.168	0.177	0.172	0.17	0.159	0.161	0.159	0.154										0.169592	6.5	0.065	1	0.1
TOLUENE-D8	1.163	1.17	1.151	1.139	1.131	1.125	1.107	1.098	1.099	1.092	1.086										1.123765	2.63	0.026	1	
TOLUENE		1.063	0.996	1.015	0.956	0.954	0.93	0.889	0.891	0.902	0.856										0.945124	6.84	0.068	1	0.4
TRANS-1,3-DICHLOROPROPENE	0.291	0.323	0.322	0.3	0.313	0.311	0.304	0.289	0.291	0.296	0.289										0.302584	4.29	0.043	1	0.1
8260-2-BROMO-1 -CHLOROPROPANE																									
1,1,2-TRICHLOROETHANE	1.566	1.151	1.212	1.169	1.19	1.202	1.183	1.141	1.132	1.153	1.132										1.202763	10.27	0.103	1	0.1
TETRACHLOROETHENE	1.033	1.206	1.192	1.204	1.179	1.186	1.141	1.104	1.072	1.099	1.028										1.131372	5.96	0.06	1	0.2
1,3-Dichloropropane	2.846	2.374	2.254	2.162	2.077	2.025	2.037	1.983	1.935	2	1.928										2.147513	12.54	0.125	1	
2-HEXANONE	0.571	0.524	0.511	0.494	0.493	0.475	0.451	0.438	0.444	0.451	0.445										0.481466	8.69	0.087	1	0.1
CHLORODIBROMOMETHANE	1.295	1.261	1.322	1.326	1.329	1.316	1.326	1.302	1.307	1.358	1.334										1.315908	1.9	0.019	1	0.1
1,2-DIBROMOETHANE	1.314	1.192	1.261	1.243	1.208	1.22	1.225	1.203	1.202	1.232	1.199										1.227097	2.89	0.029	1	0.1
CHLOROBENZENE	3.666	4.124	4.099	4.053	4.058	3.996	3.951	3.816	3.724	3.83	3.594										3.901109	4.74	0.047	1	0.5
1,1,1,2-TETRACHLOROETHANE	1.327	1.315	1.277	1.295	1.3	1.282	1.263	1.223	1.206	1.246	1.213										1.267847	3.26	0.033	1	
ETHYLBENZENE	2.327	2.275	2.204	2.289	2.291	2.285	2.218	2.164	2.106	2.173	2.046										2.216201	3.96	0.04	1	0.1
M&P-XYLENE	3.026	3.017	2.817	2.821	2.759	2.733	2.679	2.593	2.517	2.609	2.426										2.726932	6.97	0.07	1	0.1
O-XYLENE	2.797	2.858	2.673	2.675	2.663	2.676	2.595	2.588	2.547	2.619	2.47										2.650867	4.09	0.041	1	0.3
STYRENE	4.307	4.351	4.338	4.402	4.411	4.458	4.315	4.209	4.118	4.221	3.987										4.283503	3.26	0.033	1	0.3
Bromoform	0.712	0.69	0.794	0.787	0.807	0.795	0.796	0.782	0.786	0.818	0.814										0.780079	5.26	0.053	1	0.1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 8260C
Review Protocol : SW846
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:45:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
Isopropylbenzene	7.558	7.445	7.307	7.231	7.12	7.174	7.006	6.77	6.515	6.635	6.173										6.993891	6.08	0.061	1	0.1
4-BROMOFLUOROBENZENE	2.855	2.817	2.827	2.797	2.782	2.785	2.728	2.745	2.716	2.767	2.74										2.778103	1.59	0.016	1	
Bromobenzene	3.43	3.055	3.035	3.126	2.963	2.945	2.909	2.79	2.743	2.824	2.675										2.954178	7.11	0.071	1	
1,1,2,2-TETRACHLOROETHANE	1.71	1.667	1.595	1.599	1.567	1.504	1.523	1.455	1.452	1.462	1.45										1.54411	5.9	0.059	1	0.3
1,2,3-TRICHLOROPROPANE		0.434	0.415	0.409	0.39	0.395	0.382	0.372	0.37	0.381	0.377										0.392485	5.31	0.053	1	
TRANS-1,4-DICHLORO-2-BUTENE		0.395	0.443	0.407	0.399	0.374	0.364	0.36	0.367	0.373	0.368										0.384911	6.72	0.067	1	
n-Propylbenzene	8.309	8.543	8.491	8.496	8.446	8.498	8.311	8.146	7.828	8.02	7.383										8.224674	4.38	0.044	1	
4-ETHYLTOLUENE	7.578	7.6	7.211	7.112	7.164	7.12	6.91	6.715	6.489	6.632	6.102										6.966719	6.53	0.065	1	
2-Chlorotoluene	1.609	1.543	1.58	1.667	1.547	1.545	1.531	1.479	1.469	1.516	1.447										1.539525	4.15	0.041	1	
4-Chlorotoluene	5.56	5.458	4.91	5.1	5.031	5.053	5.026	4.858	4.724	4.865	4.513										5.008936	5.98	0.06	1	
1,3,5-Trimethylbenzene	5.673	6.127	6.189	6.025	5.906	5.875	5.689	5.521	5.259	5.402	5.007										5.69755	6.56	0.066	1	
tert-Butylbenzene	4.823	4.804	4.715	4.956	4.867	4.857	4.82	4.638	4.455	4.504	4.304										4.703833	4.35	0.043	1	
1,2,4-Trimethylbenzene	6.396	6.244	5.991	5.865	5.893	5.78	5.619	5.399	5.227	5.366	4.973										5.704733	7.63	0.076	1	
sec-Butylbenzene	7.834	7.941	7.735	7.902	7.882	7.88	7.581	7.341	7.033	7.195	6.621										7.540401	5.8	0.058	1	
1,3-DICHLOROBENZENE	3.033	3.104	3.159	3.154	3.154	3.124	3.07	3.01	2.923	2.964	2.758										3.041304	4.05	0.041	1	0.6
p-Isopropyltoluene	6.536	6.501	6.363	6.421	6.428	6.428	6.213	5.926	5.736	5.85	5.408										6.164728	6.09	0.061	1	
DICYCLOPENTADIENE	6.04	6.04	7.063	6.738	6.882	6.947	6.745	6.413	6.241	6.339	5.968										6.492368	6.13	0.061	1	
8260-1,4-DICHLOROBENZENE-D4																									
1,4-DICHLOROBENZENE	1.095	1.143	1.142	1.068	1.078	1.074	1.059	1.027	1.008	1.02	0.954										1.060704	5.34	0.053	1	
1,2,3-TRIMETHYLBENZENE			3.093	2.532	2.208	2.083	2.029	1.938	1.88	1.899	1.784										2.16086	19.16	0.999	0	
1,2-DICHLOROBENZENE	0.981	1.048	1.094	1.041	1.039	1.042	1.036	1.009	0.992	1.002	0.952										1.021456	3.82	0.038	1	0.4
n-Butylbenzene		2.681	2.447	2.252	2.19	2.237	2.185	2.112	2.028	2.037	1.885										2.20537	10.24	0.102	1	

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 8260C
Review Protocol : SW846
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:45:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
1,2-Dibromo-3-chloropropane		0.091	0.115	0.098	0.097	0.101	0.104	0.104	0.108	0.111	0.113										0.10407	7.3	0.073	1	0.05
1,2,4-Trichlorobenzene	0.552	0.631	0.671	0.664	0.676	0.688	0.685	0.668	0.635	0.639	0.605										0.646706	6.28	0.063	1	0.2
HEXACHLORO-1,3-BUTADIENE	0.309	0.365	0.357	0.352	0.36	0.355	0.333	0.338	0.325	0.332	0.328										0.341475	5.18	0.052	1	
Naphthalene	1.543	1.482	1.49	1.426	1.463	1.495	1.528	1.499	1.492	1.505	1.46										1.489473	2.16	0.022	1	
1,2,3-Trichlorobenzene	0.526	0.585	0.594	0.579	0.593	0.603	0.603	0.592	0.563	0.578	0.551										0.578804	4.1	0.041	1	
1-Methylnaphthalene	0.515	0.505	0.483	0.527	0.55	0.566	0.591	0.597	0.602	0.616	0.62										0.561062	8.57	0.086	1	
2-Methylnaphthalene	0.468	0.475	0.442	0.487	0.486	0.498	0.506	0.486	0.496	0.511	0.493										0.486049	3.95	0.04	1	
AP9-PENTAFLUOROBENZENE																									
ETHANOL												0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004234	9.19	0.092	1	
Bromoethane												0.321	0.318	0.318	0.321	0.326	0.328	0.338	0.334	0.331	0.326079	2.19	0.022	1	
2-PROPANOL												0.03	0.025	0.023	0.021	0.021	0.021	0.023	0.021	0.021	0.022726	13.68	0.137	1	
Methyl Acetate												0.212	0.2	0.208	0.206	0.199	0.201	0.207	0.207	0.201	0.204529	2.22	0.022	1	0.1
ACETONITRILE												0.035	0.033	0.034	0.034	0.032	0.034	0.035	0.034	0.034	0.033858	2.65	0.026	1	
ALLYL CHLORIDE												0.194	0.179	0.179	0.185	0.181	0.183	0.185	0.183	0.181	0.18335	2.49	0.025	1	
tert-BUTYL ALCOHOL												0.068	0.059	0.063	0.06	0.059	0.058	0.062	0.063	0.062	0.061569	4.77	0.048	1	
chloroprene												0.583	0.56	0.556	0.549	0.54	0.554	0.559	0.548	0.543	0.554645	2.27	0.023	1	
ETHYL TERT-BUTYL ETHER												1.077	1.025	1.041	1.011	1.028	1.033	1.049	1.041	1.039	1.038207	1.75	0.018	1	
PROPIONITRILE												0.04	0.037	0.039	0.038	0.037	0.038	0.039	0.039	0.038	0.038501	2.91	0.029	1	
Ethyl Acetate												0.263	0.245	0.266	0.253	0.25	0.26	0.269	0.268	0.258	0.259177	3.2	0.032	1	
METHACRYLONITRILE												0.127	0.121	0.123	0.12	0.118	0.12	0.123	0.122	0.119	0.121516	2.23	0.022	1	
Cyclohexane												1.033	0.943	0.958	0.935	0.909	0.949	0.958	0.945	0.937	0.951894	3.56	0.036	1	0.1
tert-butyl formate												0.09	0.09	0.092	0.087	0.091	0.093	0.093	0.099	0.096	0.092314	3.97	0.04	1	

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS30
Method : V830I04O
Review Method : 8260C
Review Protocol : SW846
Released By : John A. Heath Jr.
Released On : 9/7/2015 2:45:35 PM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V830I04O -- ICal Updated Time: Mon Sep 07 14:20:13 2015

Parameter	.25	.5	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
ISOBUTANOL												0.017	0.016	0.016	0.016	0.015	0.016	0.017	0.016	0.016	0.016006	2.73	0.027	1	
Amyl Alcohol												0.027	0.026	0.027	0.023	0.024	0.026	0.028	0.026	0.026	0.025969	6.03	0.06	1	
TERT-AMYL METHYL ETHER												1.198	1.098	1.092	1.051	1.064	1.07	1.077	1.06	1.063	1.085946	4.12	0.041	1	
AP9-1,4-DIFLUOROBENZENE																									
N-BUTANOL												0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.003861	11.22	0.112	1	
Methyl Cyclohexane												0.986	0.697	0.618	0.573	0.567	0.563	0.563	0.548	0.54	0.628586	22.68	1	0	0.1
2-nitropropane												0.051	0.045	0.047	0.046	0.045	0.046	0.048	0.047	0.047	0.047009	3.67	0.037	1	
METHYL METHACRYLATE												0.165	0.159	0.166	0.162	0.16	0.16	0.162	0.159	0.159	0.161422	1.56	0.016	1	
1,4-DIOXANE												0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002435	15.25	0.152	1	
n-octane												0.248	0.226	0.225	0.216	0.223	0.222	0.226	0.225	0.22	0.225715	4.05	0.04	1	
3,3-DIMETHYL-1-BUTANOL												0.024	0.02	0.018	0.017	0.017	0.018	0.019	0.02	0.018	0.018967	10.62	0.106	1	
AP9-2-BROMO-1 -CHLOROPROPANE																									
ETHYL METHACRYLATE												1.42	1.33	1.371	1.308	1.343	1.354	1.411	1.383	1.394	1.368333	2.74	0.027	1	
CIS-1,4-DICHLORO-2-BUTENE												0.351	0.332	0.345	0.344	0.344	0.347	0.365	0.353	0.354	0.348203	2.61	0.026	1	
Cyclohexanone												0.208	0.2	0.194	0.213	0.193	0.177	0.239	0.202	0.218	0.204764	8.58	0.086	1	
PENTACHLOROETHANE												0.678	0.712	0.837	0.725	0.808	0.827	0.698	0.786	0.705	0.752843	8.13	0.081	1	
Hexachloroethane												0.987	1.02	0.999	1.024	1.044	1.067	1.098	1.06	1.091	1.043409	3.74	0.037	1	
AP9-1,4-DICHLOROBENZENE-D4																									

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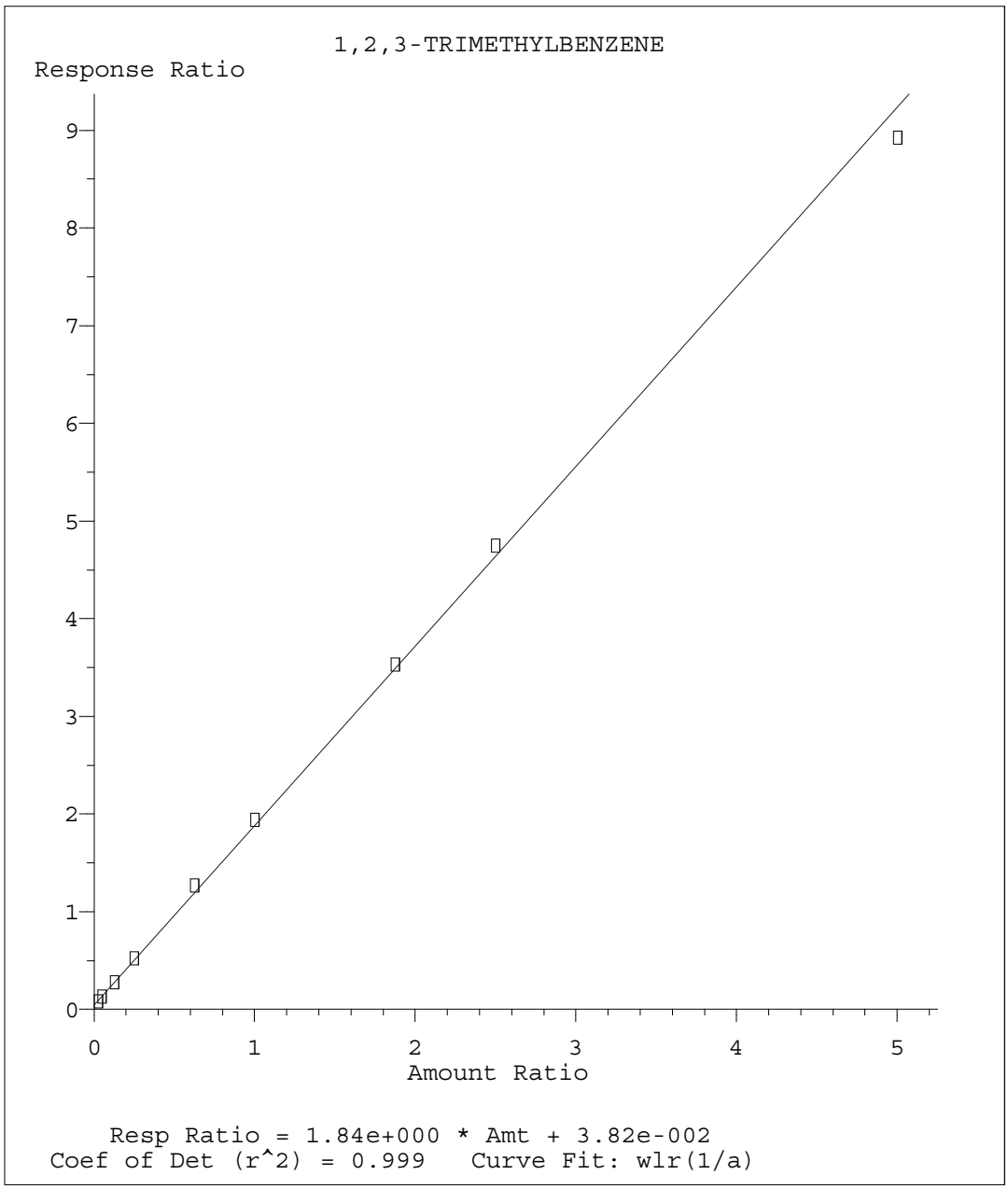
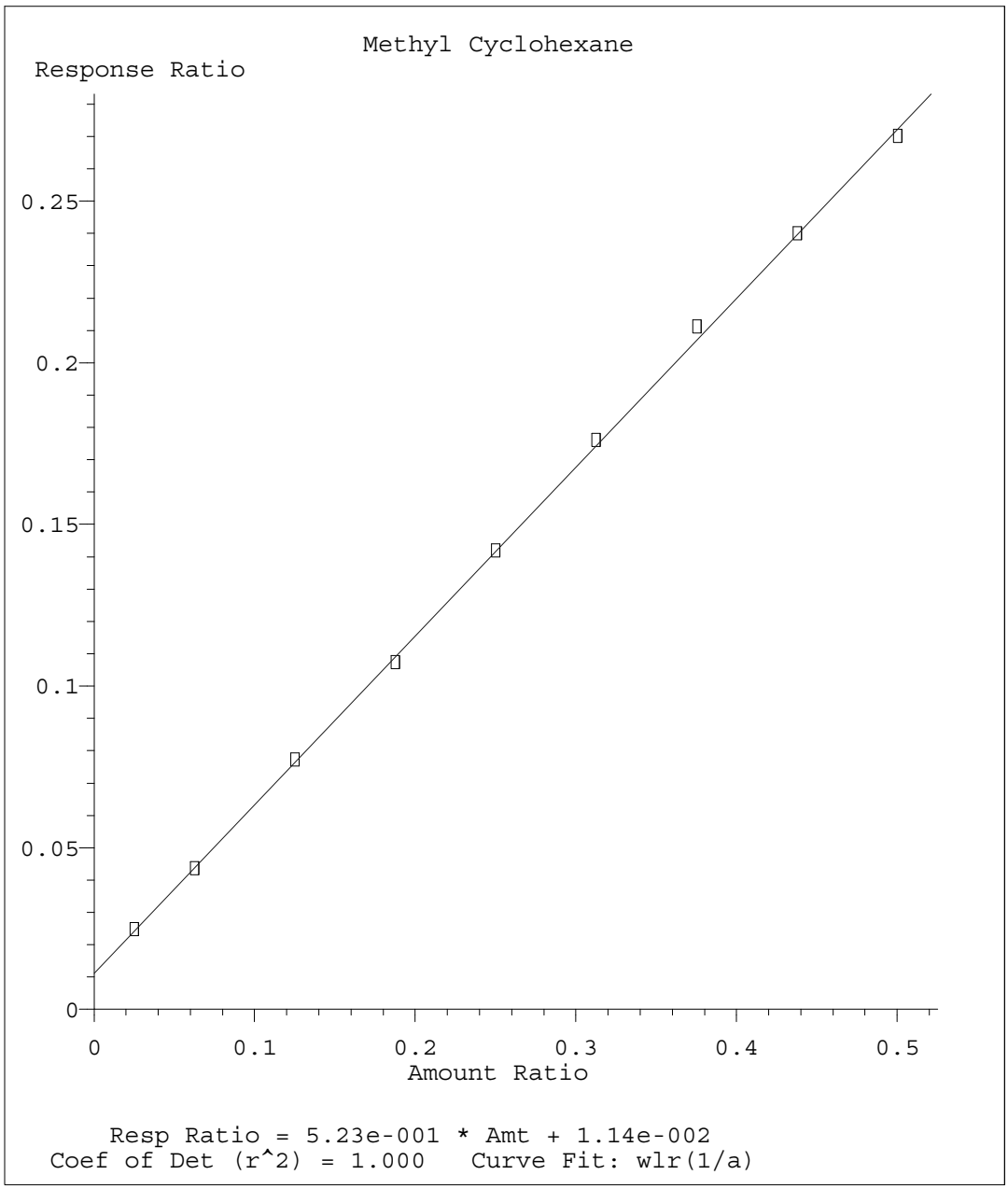
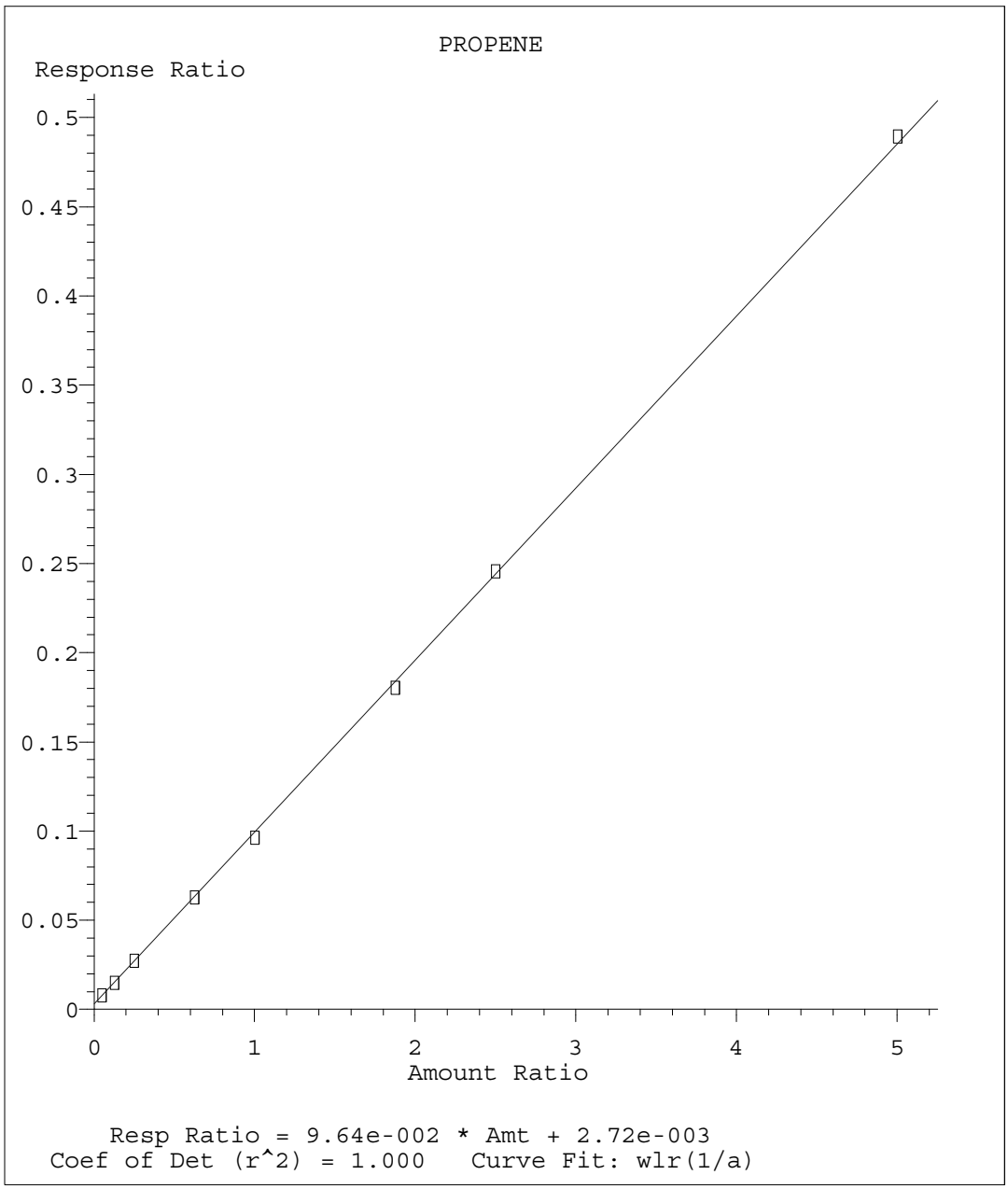


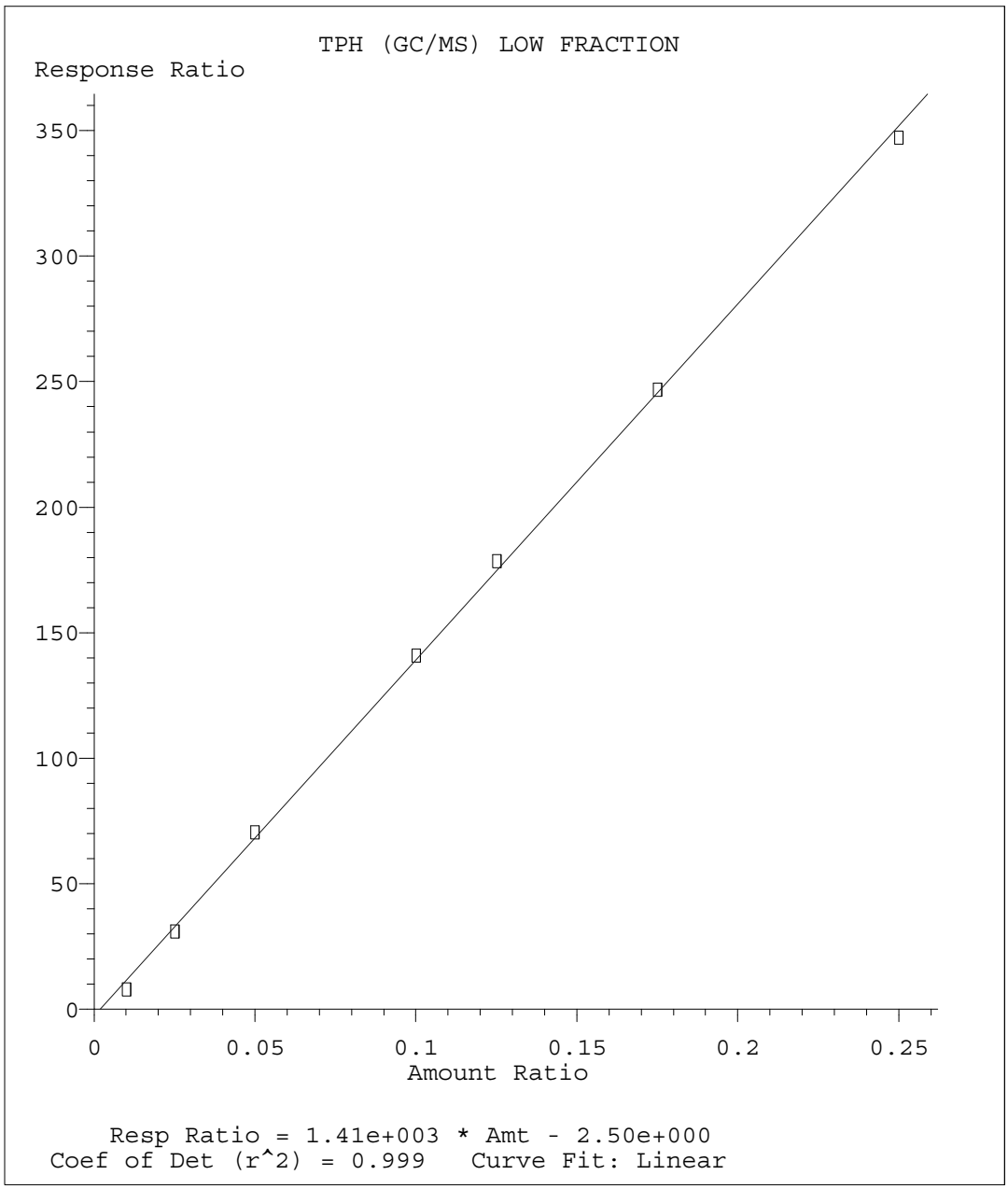
Method Name: C:\msdchem\1\methods\V830I04O.M



Method Name: C:\msdchem\1\methods\V830I04O.M



Method Name: C:\msdchem\1\methods\V830I04O.M



Method Name: C:\msdchem\1\methods\V830I04O.M

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 01.D
Acq On : 4 Sep 2015 4:53 pm
Operator : 591
Sample : INSTBLK
Misc : water 15G07402
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 07 14:33:18 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.359	168	666899	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1092043	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.856	79	166416	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	459454	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.359	168	666899	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	1092043	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.856	79	166416	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	459454	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.122	111	334372	40.9883602	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 102.47%				
46) a,a,a-Trifluorotoluene	5.059	146	596861	42.1437012	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 105.36%				
50) TOLUENE-D8	5.521	98	1259797	41.0624915	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.66%				
68) 4-BROMOFLUOROBENZENE	7.401	95	476371	41.2156303	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.04%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC -5435815m	Below Cal				
5) CHLOROMETHANE	1.895	50	9025	1.1801151	ppb	#	77
13) ACROLEIN	2.966	56	2066	2.2769008	ppb	#	65
16) ACETONE	3.136	43	18056	7.6069284	ppb		97
17) IODOMETHANE	2.857	142	3786	0.4989758	ppb	#	91
19) METHYLENE CHLORIDE	3.112	84	2600	0.3902473	ppb		97
29) 2-BUTANONE (MEK)	4.183	43	7332	2.5124293	ppb		95
31) TETRAHYDROFURAN	4.116	42	7001	4.6434346	ppb	#	94
43) 1,2-DICHLOROPROPANE	5.053	62	9723	2.2374744	ppb	#	1
52) TRANS-1,3-DICHLOROPROPENE	5.856	75	7941	0.9612787	ppb	#	1
57) 2-HEXANONE	6.312	58	1810	0.9036027	ppb	#	68
86) 1,2,3-TRIMETHYLBENZENE	8.283	105	34437	0.7987406	ppb	#	34
97) ETHANOL	2.698	45	2576	36.4881306	ppb	#	85
99) 2-PROPANOL	3.033	45	2577	6.8013338	ppb		96
100) Methyl Acetate	3.136	43	18056	5.2950190	ppb	#	51
101) ACETONITRILE	3.428	41	1023	1.8122119	ppb	#	65
103) tert-BUTYL ALCOHOL	3.295	59	3182	3.0998266	ppb	#	64
108) METHACRYLONITRILE	4.359	67	2295	1.1327875	ppb	#	7
111) ISOBUTANOL	4.438	43	534	2.0010707	ppb	#	71
115) N-BUTANOL	4.688	56	20101	190.7083681	ppb	#	24
117) 2-nitropropane	5.771	43	1193	0.9295689	ppb	#	51
118) METHYL METHACRYLATE	5.187	41	2130	0.4833218	ppb	#	13
119) 1,4-DIOXANE	5.144	88	12946	194.7067360	ppb		95
121) 3,3-DIMETHYL-1-BUTANOL	6.324	57	1740	3.3602706	ppb	#	16
125) Cyclohexanone	7.705	55	999	1.1726701	ppb	#	27

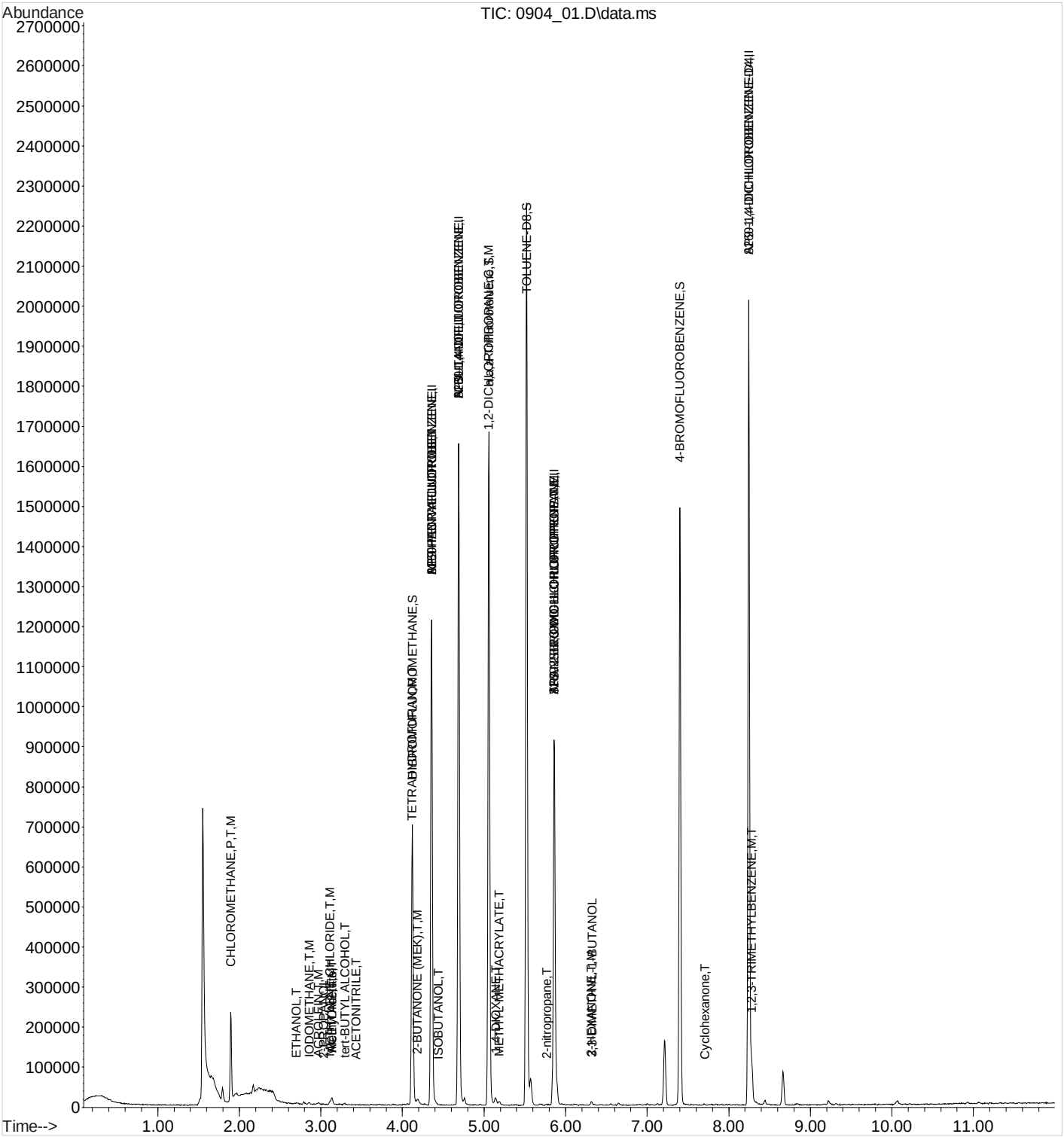
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 01.D
Acq On : 4 Sep 2015 4:53 pm
Operator : 591
Sample : INSTBLK
Misc : water 15G07402
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 07 14:33:18 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 01.D
Acq On : 4 Sep 2015 4:53 pm
Operator : 591
Sample : INSTBLK
Misc : water 15G07402
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 07 14:33:18 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.359	168	666899	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1092043	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.856	79	166416	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	459454	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.359	168	666899	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	1092043	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.856	79	166416	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	459454	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.122	111	334372	40.9883602	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 102.47%				
46) a,a,a-Trifluorotoluene	5.059	146	596861	42.1437012	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 105.36%				
50) TOLUENE-D8	5.521	98	1259797	41.0624915	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.66%				
68) 4-BROMOFLUOROBENZENE	7.401	95	476371	41.2156303	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.04%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC -5435815m	Below Cal				
5) CHLOROMETHANE	1.895	50	9025	1.1801151	ppb	#	77
13) ACROLEIN	2.966	56	2066	2.2769008	ppb	#	65
16) ACETONE	3.136	43	18056	7.6069284	ppb		97
17) IODOMETHANE	2.857	142	3786	0.4989758	ppb	#	91
19) METHYLENE CHLORIDE	3.112	84	2600	0.3902473	ppb		97
29) 2-BUTANONE (MEK)	4.183	43	7332	2.5124293	ppb		95
31) TETRAHYDROFURAN	4.116	42	7001	4.6434346	ppb	#	94
43) 1,2-DICHLOROPROPANE	5.053	62	9723	2.2374744	ppb	#	1
52) TRANS-1,3-DICHLOROPROPENE	5.856	75	7941	0.9612787	ppb	#	1
57) 2-HEXANONE	6.312	58	1810	0.9036027	ppb	#	68
86) 1,2,3-TRIMETHYLBENZENE	8.283	105	34437	0.7987406	ppb	#	34
97) ETHANOL	2.698	45	2576	36.4881306	ppb	#	85
99) 2-PROPANOL	3.033	45	2577	6.8013338	ppb		96
100) Methyl Acetate	3.136	43	18056	5.2950190	ppb	#	51
101) ACETONITRILE	3.428	41	1023	1.8122119	ppb	#	65
103) tert-BUTYL ALCOHOL	3.295	59	3182	3.0998266	ppb	#	64
108) METHACRYLONITRILE	4.359	67	2295	1.1327875	ppb	#	7
111) ISOBUTANOL	4.438	43	534	2.0010707	ppb	#	71
115) N-BUTANOL	4.688	56	20101	190.7083681	ppb	#	24
117) 2-nitropropane	5.771	43	1193	0.9295689	ppb	#	51
118) METHYL METHACRYLATE	5.187	41	2130	0.4833218	ppb	#	13
119) 1,4-DIOXANE	5.144	88	12946	194.7067360	ppb		95
121) 3,3-DIMETHYL-1-BUTANOL	6.324	57	1740	3.3602706	ppb	#	16
125) Cyclohexanone	7.705	55	999	1.1726701	ppb	#	27

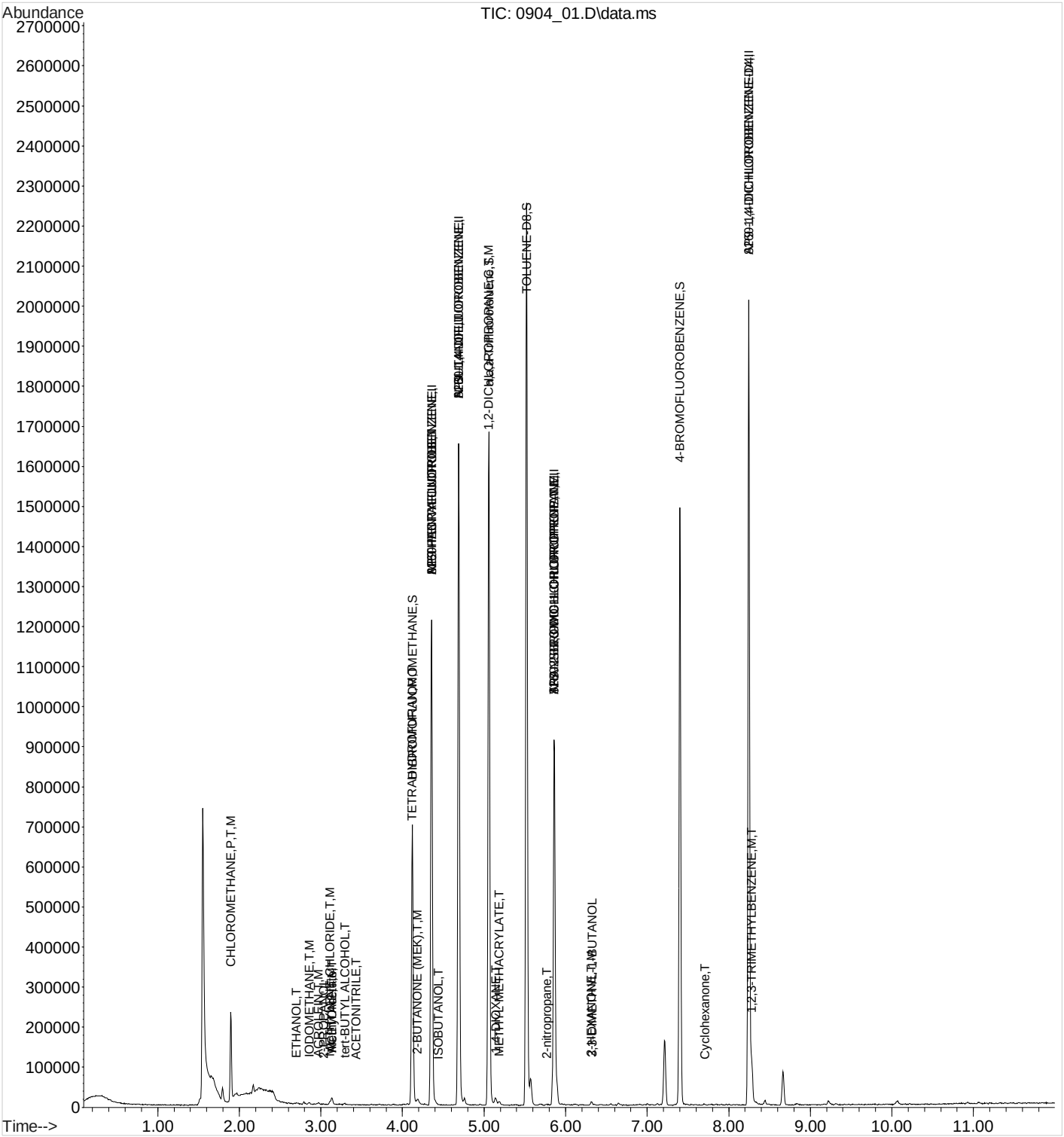
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 01.D
Acq On : 4 Sep 2015 4:53 pm
Operator : 591
Sample : INSTBLK
Misc : water 15G07402
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Sep 07 14:33:18 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 06A.D
Acq On : 4 Sep 2015 6:46 pm
Operator : 591
Sample : RL VMS 1 ppb 15I04618
Misc : water 15G07402
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 07 14:12:01 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:09:24 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.359	168	646156	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1062677	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.862	79	161406	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	453392	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.359	168	646156	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	1062677	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.862	79	161406	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	453392	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.122	111	333060	42.1381829	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 105.35%				
46) a,a,a-Trifluorotoluene	5.059	146	589102	42.7453057	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 106.86%				
50) TOLUENE-D8	5.521	98	1253647	41.9912160	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.98%				
68) 4-BROMOFLUOROBENZENE	7.401	95	467752	41.7260897	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.32%				
Target Compounds							Qvalue
3) PROPENE	1.658	41	3442	1.0803305	ppb		92
4) DICHLORODIFLUOROMETHANE	1.695	85	6011	0.9839305	ppb		96
5) CHLOROMETHANE	1.877	50	8157	1.1008555	ppb		98
6) VINYL CHLORIDE	1.944	62	7598	1.0322579	ppb		92
7) 1,3-BUTADIENE	1.956	39	5916	1.0767587	ppb		95
8) BROMOMETHANE	2.206	94	4787	1.5402118	ppb	#	90
9) CHLOROETHANE	2.291	64	4453	1.2274096	ppb	#	93
10) TRICHLOROFLUOROMETHANE	2.400	101	8929	1.0721371	ppb	#	96
11) DICHLOROFLUOROMETHANE	2.431	67	11794	1.0650212	ppb		98
12) ETHYL ETHER	2.607	59	4639	1.0290599	ppb		91
13) ACROLEIN	2.960	56	4880	5.5508093	ppb		94
14) 1,1-DICHLOROETHENE	2.753	61	8533	1.0082478	ppb		96
15) 1,1,2-TRICHLOROTRIFLUO...	2.771	101	5677	1.0146376	ppb		95
16) ACETONE	3.136	43	21764	9.4634433	ppb		98
17) IODOMETHANE	2.857	142	36851	5.0126901	ppb		99
18) CARBON DISULFIDE	2.790	76	21243	1.0092235	ppb	#	93
19) METHYLENE CHLORIDE	3.112	84	7503	1.1623159	ppb		94
20) ACRYLONITRILE	3.599	53	8908	5.2495380	ppb		95
21) n-Hexane	3.240	56	6710	1.1736206	ppb		90
22) TRANS-1,2-DICHLOROETHENE	3.209	96	6719	1.0865105	ppb		91
23) METHYL TERT-BUTYL ETHER	3.258	73	15861	1.0555149	ppb		97
24) 1,1-DICHLOROETHANE	3.568	63	10306	0.9895717	ppb		99
25) VINYL ACETATE	3.678	43	48818	5.2547491	ppb		99
26) DI-ISOPROPYL ETHER	3.459	45	18670	1.0142382	ppb		96
27) 2,2-Dichloropropane	3.933	77	9897	1.0424419	ppb		98
28) CIS-1,2-DICHLOROETHENE	3.873	96	6448	0.9891776	ppb		94
29) 2-BUTANONE (MEK)	4.183	43	17936	6.3433645	ppb		97
30) BROMOCHLOROMETHANE	3.988	130	3737	1.0484481	ppb		95
31) TETRAHYDROFURAN	4.116	42	2034	1.3923643	ppb	#	47
32) CHLOROFORM	4.019	83	10984	1.0553999	ppb		96
34) 1,1,1-TRICHLOROETHANE	4.152	97	8841	1.0350367	ppb		98
35) CARBON TETRACHLORIDE	4.110	117	7108	0.8693373	ppb		81
36) 1,1-Dichloropropene	4.213	75	7653	0.9937820	ppb		92

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 06A.D
Acq On : 4 Sep 2015 6:46 pm
Operator : 591
Sample : RL VMS 1 ppb 15I04618
Misc : water 15G07402
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 07 14:12:01 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:09:24 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.256	41	6242	0.9812848	ppb		99
38) HEPTANE	4.292	43	9712	1.0127686	ppb	#	86
39) BENZENE	4.359	78	24014	0.9991308	ppb	#	58
40) 1,2-DICHLOROETHANE	4.475	62	6878	0.9986910	ppb		97
42) TRICHLOROETHENE	4.688	130	6155	1.0247801	ppb		93
43) 1,2-DICHLOROPROPANE	5.004	62	4576	1.0821370	ppb		98
44) DIBROMOMETHANE	4.949	93	3376	1.0019975	ppb		94
45) BROMODICHLOROMETHANE	5.028	83	8715	1.0869520	ppb	#	91
48) CIS-1,3-DICHLOROPROPENE	5.406	75	9007	0.9544957	ppb	#	84
49) 4-METHYL-2-PENTANONE (...	5.771	43	25666	5.6965431	ppb		92
51) TOLUENE	5.552	91	26468	1.0541219	ppb		96
52) TRANS-1,3-DICHLOROPROPENE	5.807	75	8560	1.0648448	ppb		97
54) 1,1,2-TRICHLOROETHANE	5.917	97	4892	1.0079678	ppb		94
55) TETRACHLOROETHENE	5.807	164	4808	1.0531725	ppb		97
56) 1,3-Dichloropropane	6.105	76	9096	1.0496755	ppb		92
57) 2-HEXANONE	6.312	58	10307	5.3052593	ppb		97
58) CHLORODIBROMOMETHANE	6.044	129	5336	1.0049178	ppb		97
59) 1,2-DIBROMOETHANE	6.227	107	5089	1.0277650	ppb		97
60) CHLOROBENZENE	6.561	112	16540	1.0507217	ppb		97
61) 1,1,1,2-TETRACHLOROETHANE	6.598	133	5152	1.0070461	ppb	#	98
62) ETHYLBENZENE	6.555	106	8892	0.9943302	ppb		92
63) M&P-XYLENE	6.653	106	22735	2.0661456	ppb		97
64) O-XYLENE	6.963	106	10787	1.0084459	ppb		94
65) STYRENE	6.993	104	17504	1.0126948	ppb		94
66) Bromoform	7.036	173	3205	1.0181919	ppb		95
67) Isopropylbenzene	7.176	105	29485	1.0447745	ppb		98
69) Bromobenzene	7.492	77	12246	1.0273016	ppb		95
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	6438	1.0332683	ppb	#	97
71) 1,2,3-TRICHLOROPROPANE	7.650	110	1673	1.0563618	ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.669	53	1786	1.1499035	ppb		91
73) n-Propylbenzene	7.480	91	34263	1.0323976	ppb		99
74) 4-ETHYLTOLUENE	7.553	105	29099	1.0351185	ppb		99
75) 2-Chlorotoluene	7.614	126	6377	1.0265261	ppb		96
76) 4-Chlorotoluene	7.742	91	19814	0.9803181	ppb		97
77) 1,3,5-Trimethylbenzene	7.614	105	24975	1.0863197	ppb		96
78) tert-Butylbenzene	7.863	119	19025	1.0023355	ppb		92
79) 1,2,4-Trimethylbenzene	7.918	105	24173	1.0501118	ppb		98
80) sec-Butylbenzene	7.997	105	31212	1.0258113	ppb		100
81) 1,3-DICHLOROBENZENE	8.192	146	12749	1.0388589	ppb		99
82) p-Isopropyltoluene	8.101	119	25677	1.0322163	ppb		97
83) DICYCLOPENTADIENE	8.107	66	28499	1.0878445	ppb		99
85) 1,4-DICHLOROBENZENE	8.259	146	12948	1.0769473	ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.259	105	35063	0.8505640	ppb	#	76
87) 1,2-DICHLOROBENZENE	8.593	146	12402	1.0711695	ppb		96
88) n-Butylbenzene	8.429	91	27740	1.1097140	ppb		91
89) 1,2-Dibromo-3-chloropr...	9.238	157	1300	1.1020586	ppb	#	81
90) 1,2,4-Trichlorobenzene	9.786	180	7609	1.0380220	ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.743	225	4050	1.0463636	ppb		96
92) Naphthalene	10.060	128	16889	1.0003623	ppb		96
93) 1,2,3-Trichlorobenzene	10.212	180	6731	1.0259686	ppb		94
94) 1-Methylnaphthalene	10.929	142	5472	0.8604408	ppb		91
95) 2-Methylnaphthalene	11.063	142	5006	0.9086507	ppb		89

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 06A.D
Acq On : 4 Sep 2015 6:46 pm
Operator : 591
Sample : RL VMS 1 ppb 15I04618
Misc : water 15G07402
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 07 14:12:01 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:09:24 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

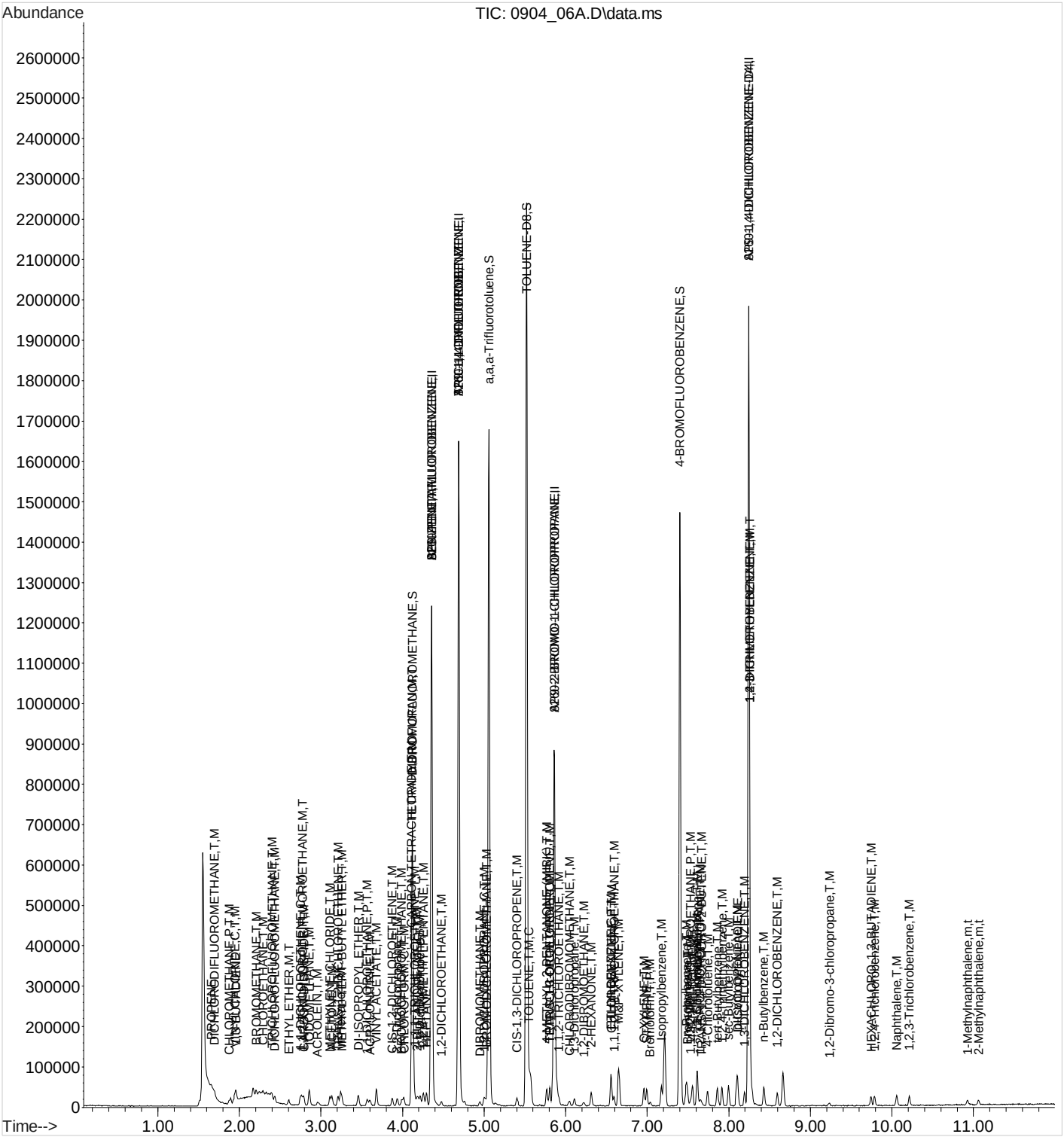
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 06A.D
Acq On : 4 Sep 2015 6:46 pm
Operator : 591
Sample : RL VMS 1 ppb 15I04618
Misc : water 15G07402
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 07 14:12:01 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:09:24 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 19A.D
Acq On : 4 Sep 2015 11:39 pm
Operator : 591
Sample : RL VMS 1a ppb 15H20824
Misc : water 15G07402
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 07 14:21:03 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.359	168	608408	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	993983	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.856	79	146930	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	420955	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.359	168	608408	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	993983	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.856	79	146930	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	420955	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.122	111	303996	40.8473288	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 102.12%				
46) a,a,a-Trifluorotoluene	5.059	146	554602	43.0230986	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 107.56%				
50) TOLUENE-D8	5.521	98	1159926	41.5370638	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 103.84%				
68) 4-BROMOFLUOROBENZENE	7.401	95	431899	42.3236807	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 105.81%				
Target Compounds							Qvalue
5) CHLOROMETHANE	1.895	50	3013	0.4318585	ppb	#	75
8) BROMOMETHANE	2.206	94	1524	0.5207682	ppb	#	88
13) ACROLEIN	2.960	56	1349	1.6296371	ppb	#	82
16) ACETONE	3.136	43	9043	4.1760478	ppb		98
17) IODOMETHANE	2.857	142	5016	0.7246388	ppb	#	93
20) ACRYLONITRILE	3.550	53	44314	27.7347526	ppb	#	51
29) 2-BUTANONE (MEK)	4.183	43	4028	1.5129550	ppb	#	88
31) TETRAHYDROFURAN	4.122	42	1031	0.7495543	ppb	#	31
37) 2,2,4-TRIMETHYLPENTANE	4.262	41	8546	1.4268446	ppb	#	1
43) 1,2-DICHLOROPROPANE	5.053	62	9086	2.2971603	ppb	#	17
52) TRANS-1,3-DICHLOROPROPENE	5.862	75	7088	0.9426676	ppb	#	1
55) TETRACHLOROETHENE	5.807	164	5637	1.3564141	ppb		96
57) 2-HEXANONE	6.312	58	1282	0.7248891	ppb		97
78) tert-Butylbenzene	7.900	119	12414	0.7184713	ppb	#	33
86) 1,2,3-TRIMETHYLBENZENE	8.277	105	8706	Below Cal	#	34	
92) Naphthalene	10.060	128	6110	0.3897918	ppb		100
93) 1,2,3-Trichlorobenzene	10.212	180	2021	0.3317867	ppb		98
94) 1-Methylnaphthalene	10.930	142	7673	1.2995060	ppb		100
95) 2-Methylnaphthalene	11.063	142	6968	1.3622363	ppb		97
97) ETHANOL	2.698	45	7838	121.6959609	ppb	#	85
98) Bromoethane	2.924	108	4883	0.9845293	ppb		93
99) 2-PROPANOL	3.033	45	2297	6.6451657	ppb	#	88
100) Methyl Acetate	3.197	43	64560	20.7527018	ppb	#	99
101) ACETONITRILE	3.422	41	26346	51.1579556	ppb		99
102) ALLYL CHLORIDE	3.045	76	14754	5.2904538	ppb		99
103) tert-BUTYL ALCOHOL	3.289	59	5163	5.5132096	ppb	#	91
104) chloroprene	3.550	53	44314	5.2527976	ppb		96
105) ETHYL TERT-BUTYL ETHER	3.666	59	16381	1.0373407	ppb		95
106) PROPIONITRILE	4.365	54	30668	52.3701264	ppb	#	67
107) Ethyl Acetate	4.049	43	40049	10.1592085	ppb		96
108) METHACRYLONITRILE	4.377	67	96819	52.3831356	ppb		93
109) Cyclohexane	3.994	56	15712	1.0851959	ppb		98
110) tert-butyl formate	4.262	59	13615	9.6965142	ppb		89

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 19A.D
Acq On : 4 Sep 2015 11:39 pm
Operator : 591
Sample : RL VMS 1a ppb 15H20824
Misc : water 15G07402
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 07 14:21:03 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units		Dev(Min)
111) ISOBUTANOL	4.408	43	25281	103.8438020 ppb	#	95
112) t-Amyl Alcohol	4.481	59	2070	5.2405302 ppb		100
113) TERT-AMYL METHYL ETHER	4.390	73	18223	1.1032568 ppb	#	28
115) N-BUTANOL	4.816	56	16440	171.3620630 ppb	#	87
116) Methyl Cyclohexane	4.688	83	24514	1.0140779 ppb	#	80
117) 2-nitropropane	5.704	43	6280	5.3760286 ppb	#	69
118) METHYL METHACRYLATE	5.077	41	20528	5.1175744 ppb	#	1
119) 1,4-DIOXANE	5.138	88	8302	137.1793957 ppb		99
120) n-octane	5.393	85	6175	1.1009263 ppb		96
121) 3,3-DIMETHYL-1-BUTANOL	6.276	57	5897	12.5117170 ppb	#	75
123) ETHYL METHACRYLATE	5.868	69	26079	5.1885822 ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.438	53	6448	5.0412898 ppb	#	30
125) Cyclohexanone	7.699	55	7626	10.1389219 ppb	#	81
126) PENTACHLOROETHANE	7.900	117	12455	4.5039038 ppb		93
127) Hexachloroethane	8.575	117	3627	0.9463297 ppb	#	92

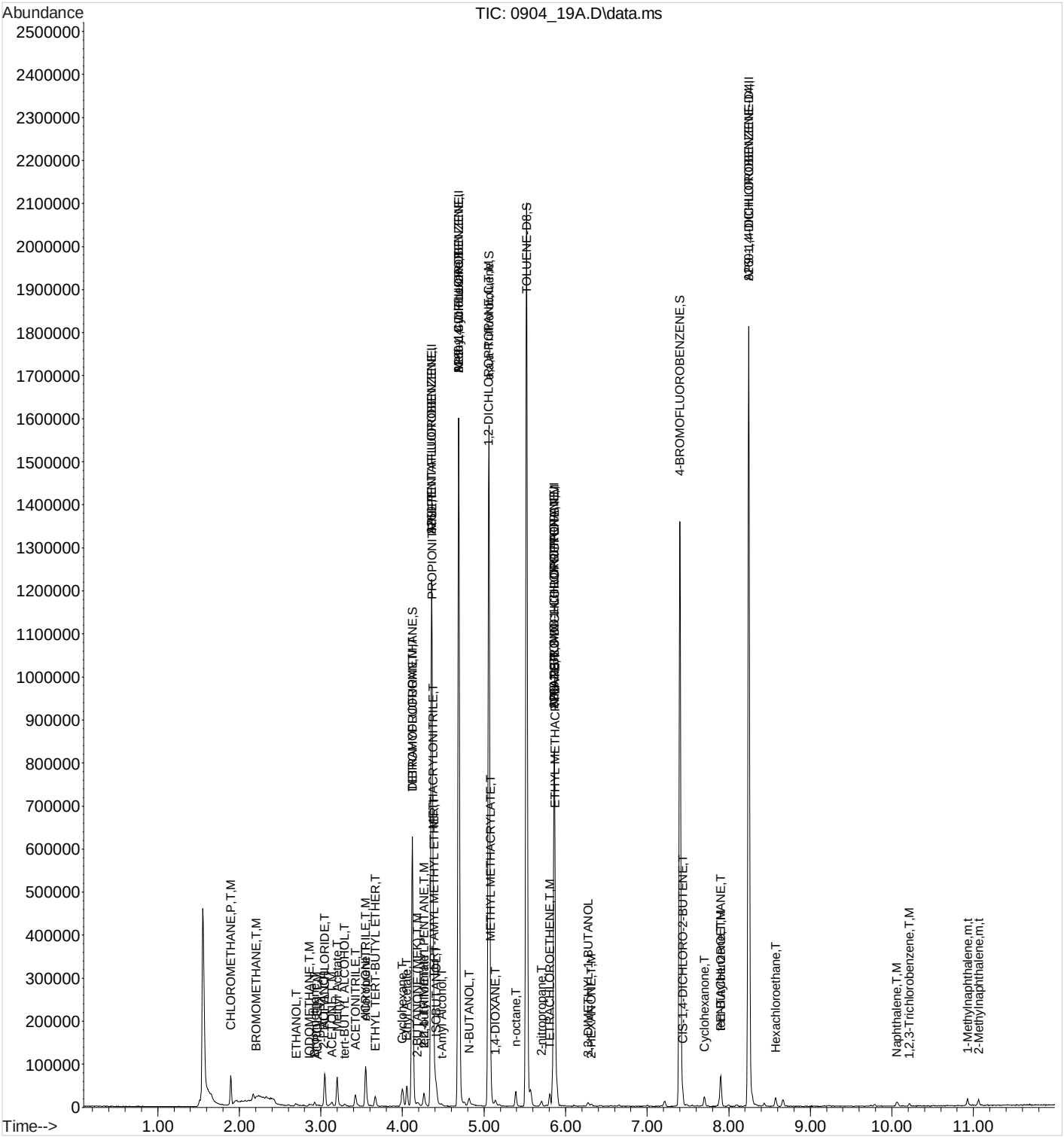
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 19A.D
Acq On : 4 Sep 2015 11:39 pm
Operator : 591
Sample : RL VMS 1a ppb 15H20824
Misc : water 15G07402
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 07 14:21:03 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 16.D
Acq On : 4 Sep 2015 10:31 pm
Operator : 591
Sample : dnr SSCV VMS 25 ppb 15I04620
Misc : water 15G07402
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 07 14:10:14 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:09:24 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.359	168	591433	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1019571	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.856	79	154454	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	431629	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.359	168	591433	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	1019571	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.856	79	154454	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	431629	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.122	111	301127	41.6231412	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 104.06%			
46) a,a,a-Trifluorotoluene	5.059	146	555324	41.9979585	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.99%			
50) TOLUENE-D8	5.521	98	1213361	42.3601047	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.90%			
68) 4-BROMOFLUOROBENZENE	7.401	95	457360	42.6354380	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 106.59%			
Target Compounds						Qvalue
3) PROPENE	1.658	41	44785	30.2883941	ppb	98
4) DICHLORODIFLUOROMETHANE	1.701	85	281484	50.3388419	ppb	100
5) CHLOROMETHANE	1.877	50	336136	49.5617587	ppb	100
6) VINYL CHLORIDE	1.944	62	359745	53.3968348	ppb	99
7) 1,3-BUTADIENE	1.956	39	253194	50.3472185	ppb	97
8) BROMOMETHANE	2.206	94	204491	71.8824771	ppb	98
9) CHLOROETHANE	2.291	64	190795	57.4560318	ppb	97
10) TRICHLOROFLUOROMETHANE	2.400	101	411808	54.0224284	ppb	98
11) DICHLOROFLUOROMETHANE	2.431	67	517456	51.0507789	ppb	100
12) ETHYL ETHER	2.607	59	211225	51.1909807	ppb	100
13) ACROLEIN	2.966	56	208856	259.5465555	ppb	100
14) 1,1-DICHLOROETHENE	2.753	61	419801	54.1927067	ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	274139	53.5296876	ppb	99
16) ACETONE	3.136	43	560500	266.2673478	ppb	99
17) IODOMETHANE	2.857	142	1664419	247.3523656	ppb	100
18) CARBON DISULFIDE	2.790	76	963205	49.9944818	ppb	99
19) METHYLENE CHLORIDE	3.112	84	289754	49.0400055	ppb	100
20) ACRYLONITRILE	3.599	53	392266	252.5534891	ppb	99
21) n-Hexane	3.240	56	263908	50.4300723	ppb	100
22) TRANS-1,2-DICHLOROETHENE	3.209	96	292547	51.6840757	ppb	100
23) METHYL TERT-BUTYL ETHER	3.252	73	710820	51.6803281	ppb	98
24) 1,1-DICHLOROETHANE	3.568	63	509049	53.4008966	ppb	100
25) VINYL ACETATE	3.678	43	2139927	251.6533903	ppb	100
26) DI-ISOPROPYL ETHER	3.453	45	886361	52.6063425	ppb	100
27) 2,2-Dichloropropane	3.939	77	438520	50.4625861	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.873	96	310873	52.1031624	ppb	99
29) 2-BUTANONE (MEK)	4.183	43	626088	241.9141560	ppb	99
30) BROMOCHLOROMETHANE	3.994	130	171564	52.5874183	ppb	99
31) TETRAHYDROFURAN	4.116	42	64256	48.0559823	ppb	99
32) CHLOROFORM	4.012	83	483947	50.8026232	ppb	99
34) 1,1,1-TRICHLOROETHANE	4.152	97	408993	52.3120906	ppb	99
35) CARBON TETRACHLORIDE	4.110	117	404500	54.0494481	ppb	98
36) 1,1-Dichloropropene	4.213	75	362488	51.4262507	ppb	100

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 16.D
Acq On : 4 Sep 2015 10:31 pm
Operator : 591
Sample : dnr SSCV VMS 25 ppb 15I04620
Misc : water 15G07402
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 07 14:10:14 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:09:24 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.256	41	286401	49.1900966	ppb		97
38)	HEPTANE	4.292	43	475335	54.1543307	ppb	#	98
39)	BENZENE	4.359	78	1118638	50.8486277	ppb		99
40)	1,2-DICHLOROETHANE	4.475	62	335226	53.1787962	ppb		99
42)	TRICHLOROETHENE	4.688	130	300717	52.1848477	ppb		100
43)	1,2-DICHLOROPROPANE	5.004	62	206352	50.8614497	ppb		99
44)	DIBROMOMETHANE	4.949	93	166588	51.5337492	ppb		99
45)	BROMODICHLOROMETHANE	5.022	83	378005	49.1387772	ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.406	75	467431	51.6291667	ppb		100
49)	4-METHYL-2-PENTANONE (...	5.771	43	1005633	232.6357862	ppb		100
51)	TOLUENE	5.552	91	1218223	50.5685262	ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.807	75	393494	51.0192992	ppb		99
54)	1,1,2-TRICHLOROETHANE	5.917	97	231637	49.8756580	ppb		100
55)	TETRACHLOROETHENE	5.807	164	221937	50.8025250	ppb		99
56)	1,3-Dichloropropane	6.105	76	396857	47.8585101	ppb		100
57)	2-HEXANONE	6.312	58	456816	245.7175418	ppb		98
58)	CHLORODIBROMOMETHANE	6.044	129	269467	53.0323422	ppb		99
59)	1,2-DIBROMOETHANE	6.221	107	244506	51.6025767	ppb		99
60)	CHLOROBENZENE	6.561	112	771565	51.2206661	ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.592	133	251149	51.3009577	ppb	#	100
62)	ETHYLBENZENE	6.555	106	435430	50.8826859	ppb		98
63)	M&P-XYLENE	6.647	106	1045492	99.2903833	ppb		98
64)	O-XYLENE	6.957	106	517463	50.5535601	ppb		99
65)	STYRENE	6.993	104	865462	52.3250660	ppb		98
66)	Bromoform	7.042	173	160286	53.2129963	ppb		100
67)	Isopropylbenzene	7.176	105	1346603	49.8633594	ppb		100
69)	Bromobenzene	7.492	77	565882	49.6078133	ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	7.529	83	289241	48.5112545	ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.650	110	75340	49.7121872	ppb		97
72)	TRANS-1,4-DICHLORO-2-B...	7.663	53	72121	48.5246242	ppb		98
73)	n-Propylbenzene	7.474	91	1625430	51.1811921	ppb		99
74)	4-ETHYLTOLUENE	7.553	105	1297211	48.2217708	ppb		99
75)	2-Chlorotoluene	7.614	126	299563	50.3920794	ppb		98
76)	4-Chlorotoluene	7.736	91	970027	50.1532648	ppb		100
77)	1,3,5-Trimethylbenzene	7.614	105	1090863	49.5841499	ppb		99
78)	tert-Butylbenzene	7.863	119	930914	51.2529115	ppb		99
79)	1,2,4-Trimethylbenzene	7.912	105	1079946	49.0261212	ppb		100
80)	sec-Butylbenzene	7.997	105	1453602	49.9242888	ppb		100
81)	1,3-DICHLOROBENZENE	8.192	146	594000	50.5809975	ppb		100
82)	p-Isopropyltoluene	8.101	119	1171686	49.2218774	ppb		100
83)	DICYCLOPENTADIENE	8.107	66	1234159	49.2298848	ppb		99
85)	1,4-DICHLOROBENZENE	8.259	146	569199	49.7300780	ppb	#	46
86)	1,2,3-TRIMETHYLBENZENE	8.259	105	1076057	53.3882962	ppb		99
87)	1,2-DICHLOROBENZENE	8.593	146	563012	51.0795827	ppb		99
88)	n-Butylbenzene	8.429	91	1139950	47.9020018	ppb		99
89)	1,2-Dibromo-3-chloropr...	9.232	157	59260	52.7698942	ppb		95
90)	1,2,4-Trichlorobenzene	9.786	180	355477	50.9393875	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	9.743	225	177303	48.1179267	ppb		99
92)	Naphthalene	10.060	128	829648	51.6191045	ppb		100
93)	1,2,3-Trichlorobenzene	10.212	180	313950	50.2664471	ppb		99
94)	1-Methylnaphthalene	10.923	142	331704	54.7884288	ppb		99
95)	2-Methylnaphthalene	11.063	142	274252	52.2900636	ppb		97

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 16.D
Acq On : 4 Sep 2015 10:31 pm
Operator : 591
Sample : dnr SSCV VMS 25 ppb 15I04620
Misc : water 15G07402
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 07 14:10:14 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:09:24 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

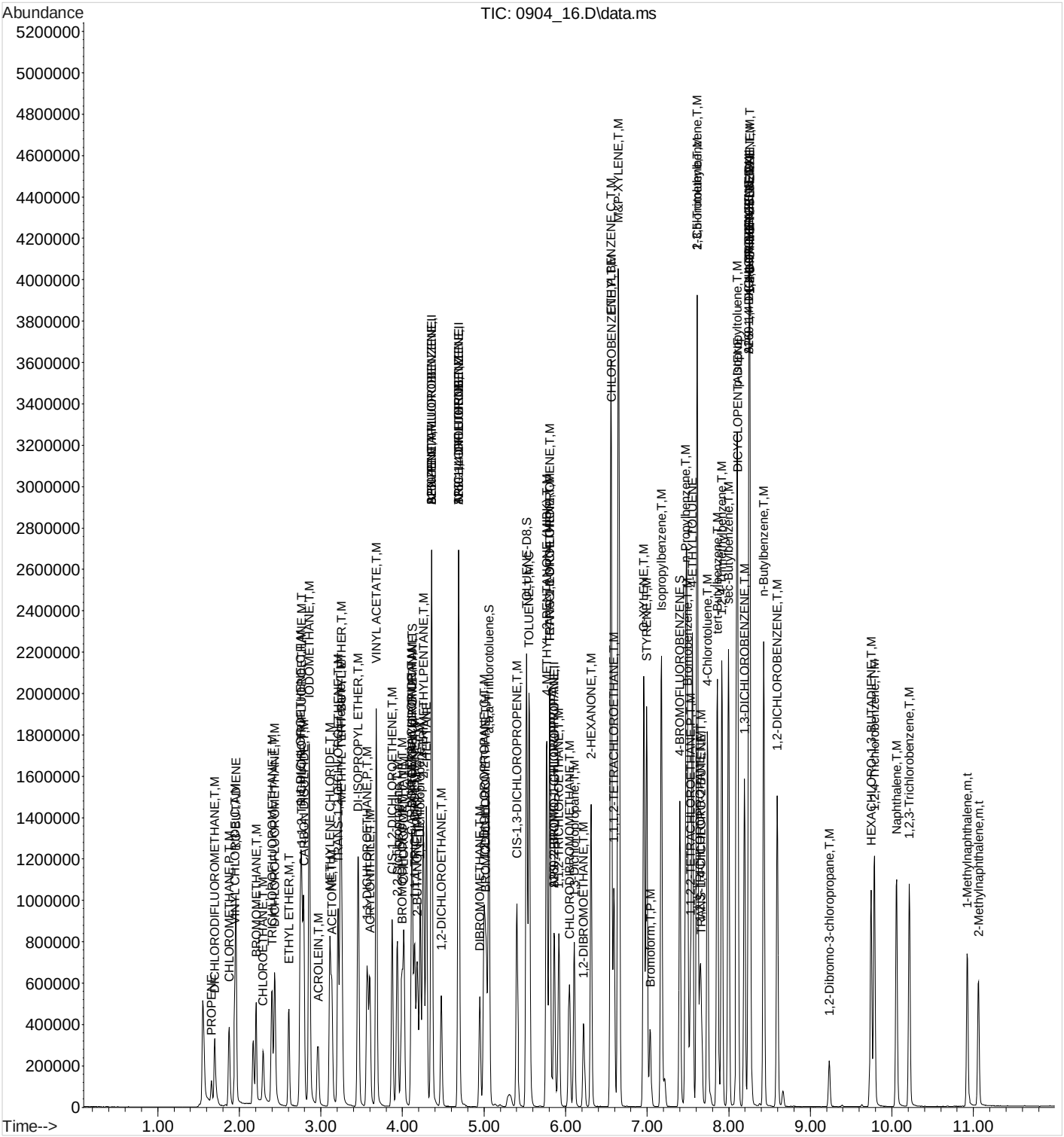
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 16.D
Acq On : 4 Sep 2015 10:31 pm
Operator : 591
Sample : dnr SSCV VMS 25 ppb 15I04620
Misc : water 15G07402
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Sep 07 14:10:14 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:09:24 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 29.D
Acq On : 5 Sep 2015 3:25 am
Operator : 591
Sample : SSCV VMS 10a ppb 15H19752
Misc : water 15G07402
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 07 14:20:20 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.359	168	609034	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1017589	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.856	79	152128	40.0000000	ppb	#	0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	438393	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.359	168	609034	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	1017589	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.856	79	152128	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	438393	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.122	111	308922	41.4665599	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.67%				
46) a,a,a-Trifluorotoluene	5.059	146	567585	43.0088388	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 107.52%				
50) TOLUENE-D8	5.521	98	1200354	41.9876344	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.97%				
68) 4-BROMOFLUOROBENZENE	7.401	95	451345	42.7180274	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 106.80%				
Target Compounds							Qvalue
3) PROPENE	1.658	41	1626	Below Cal			89
5) CHLOROMETHANE	1.895	50	21251	3.0428116	ppb	#	74
7) 1,3-BUTADIENE	1.956	39	2567	0.4956921	ppb		84
8) BROMOMETHANE	2.206	94	1333	0.4550331	ppb	#	79
13) ACROLEIN	2.966	56	1337	1.6134806	ppb		90
16) ACETONE	3.136	43	9270	4.2764761	ppb		93
17) IODOMETHANE	2.857	142	4456	0.6430764	ppb	#	84
20) ACRYLONITRILE	3.550	53	425036	265.7433690	ppb	#	51
24) 1,1-DICHLOROETHANE	3.550	63	6947	0.7077018	ppb	#	43
25) VINYL ACETATE	3.666	43	16478	1.8817951	ppb	#	74
29) 2-BUTANONE (MEK)	4.183	43	4165	1.5628055	ppb	#	86
31) TETRAHYDROFURAN	4.116	42	806	0.5853732	ppb	#	8
32) CHLOROFORM	3.994	83	7632	0.7780199	ppb	#	43
37) 2,2,4-TRIMETHYLPENTANE	4.262	41	78685	13.1237851	ppb	#	1
38) HEPTANE	4.262	43	22174	2.4532480	ppb	#	20
42) TRICHLOROETHENE	4.688	130	4937	0.8584097	ppb	#	58
43) 1,2-DICHLOROPROPANE	5.053	62	9686	2.3920463	ppb	#	43
49) 4-METHYL-2-PENTANONE (...	5.704	43	53392	12.3753721	ppb	#	35
52) TRANS-1,3-DICHLOROPROPENE	5.862	75	7679	0.9975763	ppb	#	1
55) TETRACHLOROETHENE	5.807	164	7696	1.7885894	ppb		96
57) 2-HEXANONE	6.312	58	879	0.4800359	ppb		84
61) 1,1,1,2-TETRACHLOROETHANE	6.598	133	2690	0.5578742	ppb	#	94
69) Bromobenzene	7.437	77	25891	2.3044274	ppb	#	25
72) TRANS-1,4-DICHLORO-2-B...	7.663	53	2728	1.8635232	ppb	#	81
73) n-Propylbenzene	7.431	91	11692	0.3737842	ppb	#	66
78) tert-Butylbenzene	7.900	119	162422	9.0791217	ppb	#	32
86) 1,2,3-TRIMETHYLBENZENE	8.277	105	7283	Below Cal		#	34
97) ETHANOL	2.692	45	55694	863.8387732	ppb		97
98) Bromoethane	2.923	108	51081	10.2885620	ppb		100
99) 2-PROPANOL	3.033	45	14402	41.6218142	ppb	#	73
100) Methyl Acetate	3.197	43	572132	183.7218203	ppb	#	99
101) ACETONITRILE	3.422	41	235620	457.0503253	ppb		99
102) ALLYL CHLORIDE	3.045	76	143200	51.2955325	ppb		99

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 29.D
Acq On : 5 Sep 2015 3:25 am
Operator : 591
Sample : SSCV VMS 10a ppb 15H19752
Misc : water 15G07402
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 07 14:20:20 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
103) tert-BUTYL ALCOHOL	3.288	59	40715	43.4320371	ppb		98
104) chloroprene	3.550	53	425036	50.3302179	ppb		99
105) ETHYL TERT-BUTYL ETHER	3.666	59	158996	10.0582074	ppb		100
106) PROPIONITRILE	4.365	54	267255	455.9081794	ppb		96
107) Ethyl Acetate	4.049	43	385668	97.7316384	ppb		100
108) METHACRYLONITRILE	4.377	67	866794	468.4898355	ppb		98
109) Cyclohexane	3.994	56	146284	10.0931532	ppb		99
110) tert-butyl formate	4.262	59	135381	96.3183616	ppb		97
111) ISOBUTANOL	4.408	43	218930	898.3487890	ppb	#	97
112) t-Amyl Alcohol	4.475	59	17855	45.1562756	ppb		97
113) TERT-AMYL METHYL ETHER	4.390	73	162938	9.8544525	ppb	#	42
115) N-BUTANOL	4.809	56	168228	1712.8435780	ppb		99
116) Methyl Cyclohexane	4.688	83	146738	10.1610741	ppb		97
117) 2-nitropropane	5.704	43	53392	44.6462175	ppb		95
118) METHYL METHACRYLATE	5.077	41	195683	47.6515663	ppb		92
119) 1,4-DIOXANE	5.138	88	51778	835.7145831	ppb		99
120) n-octane	5.393	85	56479	9.8359170	ppb		98
121) 3,3-DIMETHYL-1-BUTANOL	6.269	57	40695	84.3399602	ppb		98
123) ETHYL METHACRYLATE	5.868	69	257530	49.4865205	ppb	#	55
124) CIS-1,4-DICHLORO-2-BUTENE	7.431	53	61543	46.4725624	ppb	#	30
125) Cyclohexanone	7.699	55	36910	47.3958531	ppb		99
126) PENTACHLOROETHANE	7.900	117	168486	58.8451286	ppb		99
127) Hexachloroethane	8.569	117	40644	10.2421863	ppb		98

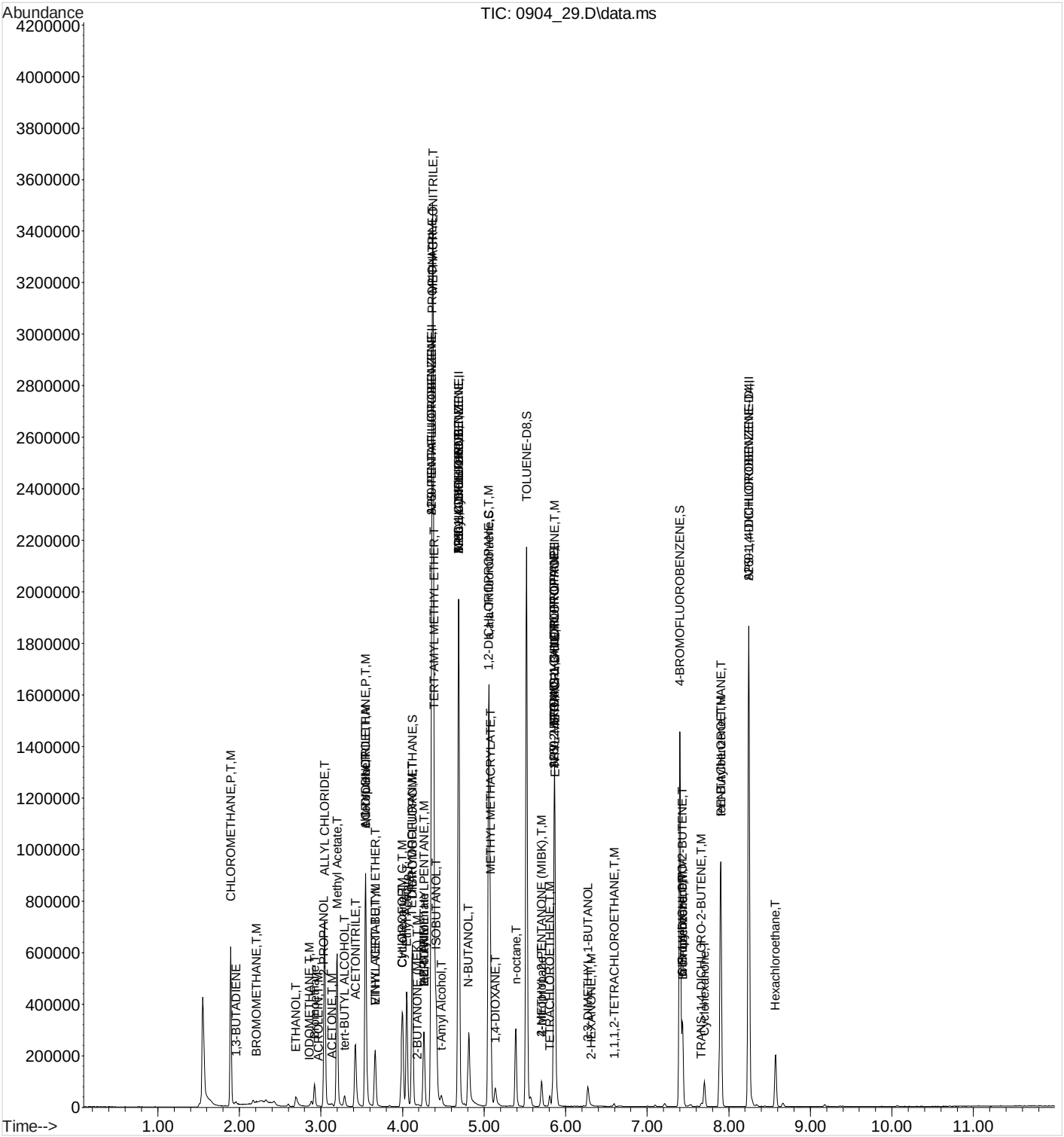
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 29.D
Acq On : 5 Sep 2015 3:25 am
Operator : 591
Sample : SSCV VMS 10a ppb 15H19752
Misc : water 15G07402
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Sep 07 14:20:20 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 41.D
Acq On : 5 Sep 2015 7:56 am
Operator : 591
Sample : SSCV GROMS 5.0 ppm 15H18660
Misc : water 15G07402
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Sep 07 14:31:38 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.359	168	580849	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	983805	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.856	79	154307	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	425522	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.359	168	580849	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	983805	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.856	79	154307	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	425522	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.122	111	291877	41.0797068	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 102.70%				
46) a,a,a-Trifluorotoluene	5.059	146	521342	40.8613677	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.15%				
50) TOLUENE-D8	5.521	98	1170520	42.3500844	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.88%				
68) 4-BROMOFLUOROBENZENE	7.401	95	457129	42.6545000	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 106.64%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC	126411604m	6.2249908	ppm		
5) CHLOROMETHANE	1.895	50	4877	0.7321950	ppb	#	80
7) 1,3-BUTADIENE	1.956	39	3093	0.6262450	ppb	#	1
13) ACROLEIN	2.954	56	110463	139.7743413	ppb	#	27
16) ACETONE	3.100	43	195891	94.7543345	ppb	#	77
17) IODOMETHANE	2.857	142	3154	0.4772626	ppb	#	83
20) ACRYLONITRILE	3.611	53	45274	29.6799988	ppb	#	41
21) n-Hexane	3.240	56	702019	136.5929261	ppb	#	68
23) METHYL TERT-BUTYL ETHER	3.252	73	15100	1.1178535	ppb	#	1
25) VINYL ACETATE	3.702	43	9999	1.1972992	ppb	#	74
29) 2-BUTANONE (MEK)	4.183	43	118906	46.7812669	ppb	#	53
31) TETRAHYDROFURAN	4.128	42	6342	4.8295016	ppb	#	1
32) CHLOROFORM	4.000	83	38726	4.1393608	ppb	#	13
34) 1,1,1-TRICHLOROETHANE	4.207	97	2424	0.3156902	ppb	#	24
37) 2,2,4-TRIMETHYLPENTANE	4.256	41	715706	125.1641951	ppb		82
38) HEPTANE	4.292	43	1044941	121.2181009	ppb	#	95
39) BENZENE	4.359	78	768581	35.5730923	ppb		99
45) BROMODICHLOROMETHANE	5.053	83	7941	1.0698193	ppb	#	1
49) 4-METHYL-2-PENTANONE (...	5.734	43	112797	27.0422613	ppb	#	39
51) TOLUENE	5.552	91	14468535	622.4242575	ppb		90
52) TRANS-1,3-DICHLOROPROPENE	5.856	75	6985	0.9385799	ppb	#	1
54) 1,1,2-TRICHLOROETHANE	5.911	97	21916	4.7234088	ppb	#	1
57) 2-HEXANONE	6.288	58	1198	0.6450082	ppb		84
62) ETHYLBENZENE	6.555	106	964914	112.8635795	ppb		95
63) M&P-XYLENE	6.653	106	2037444	193.6804057	ppb		97
64) O-XYLENE	6.957	106	855961	83.7027936	ppb		98
65) STYRENE	6.993	104	20130	1.2182014	ppb	#	33
67) Isopropylbenzene	7.176	105	245929	9.1151797	ppb		100
69) Bromobenzene	7.474	77	32858	2.8832272	ppb	#	25
70) 1,1,2,2-TETRACHLOROETHANE	7.498	83	27701	4.6504141	ppb	#	26
71) 1,2,3-TRICHLOROPROPANE	7.644	110	2371	1.5659660	ppb	#	18
72) TRANS-1,4-DICHLORO-2-B...	7.784	53	14584	9.8217896	ppb	#	66
73) n-Propylbenzene	7.474	91	877385	27.6532298	ppb		99

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 41.D
Acq On : 5 Sep 2015 7:56 am
Operator : 591
Sample : SSCV GROMS 5.0 ppm 15H18660
Misc : water 15G07402
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Sep 07 14:31:38 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	4-ETHYLTOLUENE	7.541	105	2860672	106.4422703	ppb		96
76)	4-Chlorotoluene	7.784	91	95845	4.9601908	ppb	#	50
77)	1,3,5-Trimethylbenzene	7.614	105	809745	36.8412593	ppb		100
79)	1,2,4-Trimethylbenzene	7.912	105	2609739	118.5867324	ppb		99
80)	sec-Butylbenzene	7.997	105	83926	2.8852034	ppb	#	75
82)	p-Isopropyltoluene	8.064	119	107749	4.5307877	ppb		94
83)	DICYCLOPENTADIENE	8.107	66	36449	1.4553145	ppb		97
86)	1,2,3-TRIMETHYLBENZENE	8.259	105	625575	31.1420858	ppb		98
88)	n-Butylbenzene	8.429	91	81463	3.4722969	ppb		98
92)	Naphthalene	10.060	128	137653	8.6874211	ppb	#	87
93)	1,2,3-Trichlorobenzene	10.218	180	4281	0.6952669	ppb	#	12
94)	1-Methylnaphthalene	10.923	142	96719	16.2046081	ppb		96
95)	2-Methylnaphthalene	11.063	142	47658	9.2170889	ppb	#	95
97)	ETHANOL	2.698	45	25343	412.1550246	ppb	#	88
100)	Methyl Acetate	3.240	43	783179	263.6961729	ppb	#	51
101)	ACETONITRILE	3.428	41	27877	56.6991043	ppb	#	47
103)	tert-BUTYL ALCOHOL	3.234	59	1077	1.2046191	ppb	#	1
104)	chloroprene	3.568	53	3684	0.4574051	ppb	#	21
105)	ETHYL TERT-BUTYL ETHER	3.672	59	8560	0.5677883	ppb	#	72
106)	PROPIONITRILE	4.408	54	8771	15.6884106	ppb	#	1
107)	Ethyl Acetate	4.055	43	1007545	267.7098299	ppb	#	39
108)	METHACRYLONITRILE	4.384	67	9894	5.6070506	ppb	#	1
109)	Cyclohexane	4.000	56	787709	56.9867827	ppb	#	87
110)	tert-butyl formate	4.256	59	2338	1.7441112	ppb	#	1
111)	ISOBUTANOL	4.396	43	10656	45.8471363	ppb	#	71
113)	TERT-AMYL METHYL ETHER	4.359	73	13183	0.8359930	ppb	#	26
115)	N-BUTANOL	4.785	56	129326	1361.9734618	ppb	#	52
116)	Methyl Cyclohexane	4.688	83	1160946	89.4234565	ppb	#	81
117)	2-nitropropane	5.673	43	49818	43.0881797	ppb	#	61
118)	METHYL METHACRYLATE	5.034	41	409063	103.0333118	ppb	#	13
119)	1,4-DIOXANE	5.144	88	2623	43.7899428	ppb	#	1
120)	n-octane	5.393	85	367433	66.1864964	ppb		98
121)	3,3-DIMETHYL-1-BUTANOL	6.288	57	14895	31.9298019	ppb	#	25
123)	ETHYL METHACRYLATE	5.862	69	56466	10.6971884	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.419	53	19203	14.2958692	ppb	#	1
125)	Cyclohexanone	7.663	55	19518	24.7089984	ppb	#	64
126)	PENTACHLOROETHANE	7.912	117	91017	31.3395489	ppb	#	11
127)	Hexachloroethane	8.581	117	3098	0.7696640	ppb	#	71

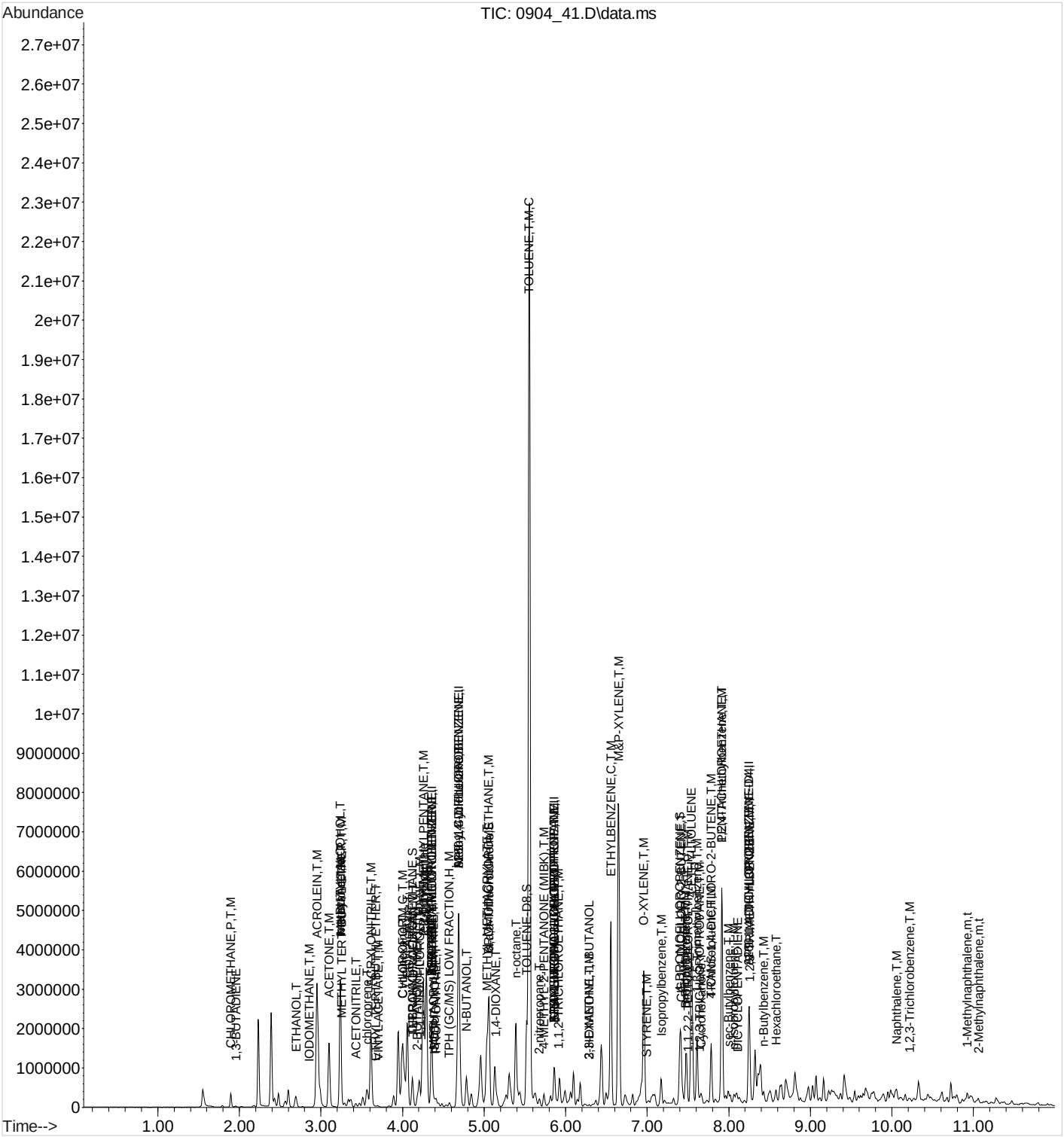
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 41.D
Acq On : 5 Sep 2015 7:56 am
Operator : 591
Sample : SSCV GROMS 5.0 ppm 15H18660
Misc : water 15G07402
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Sep 07 14:31:38 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

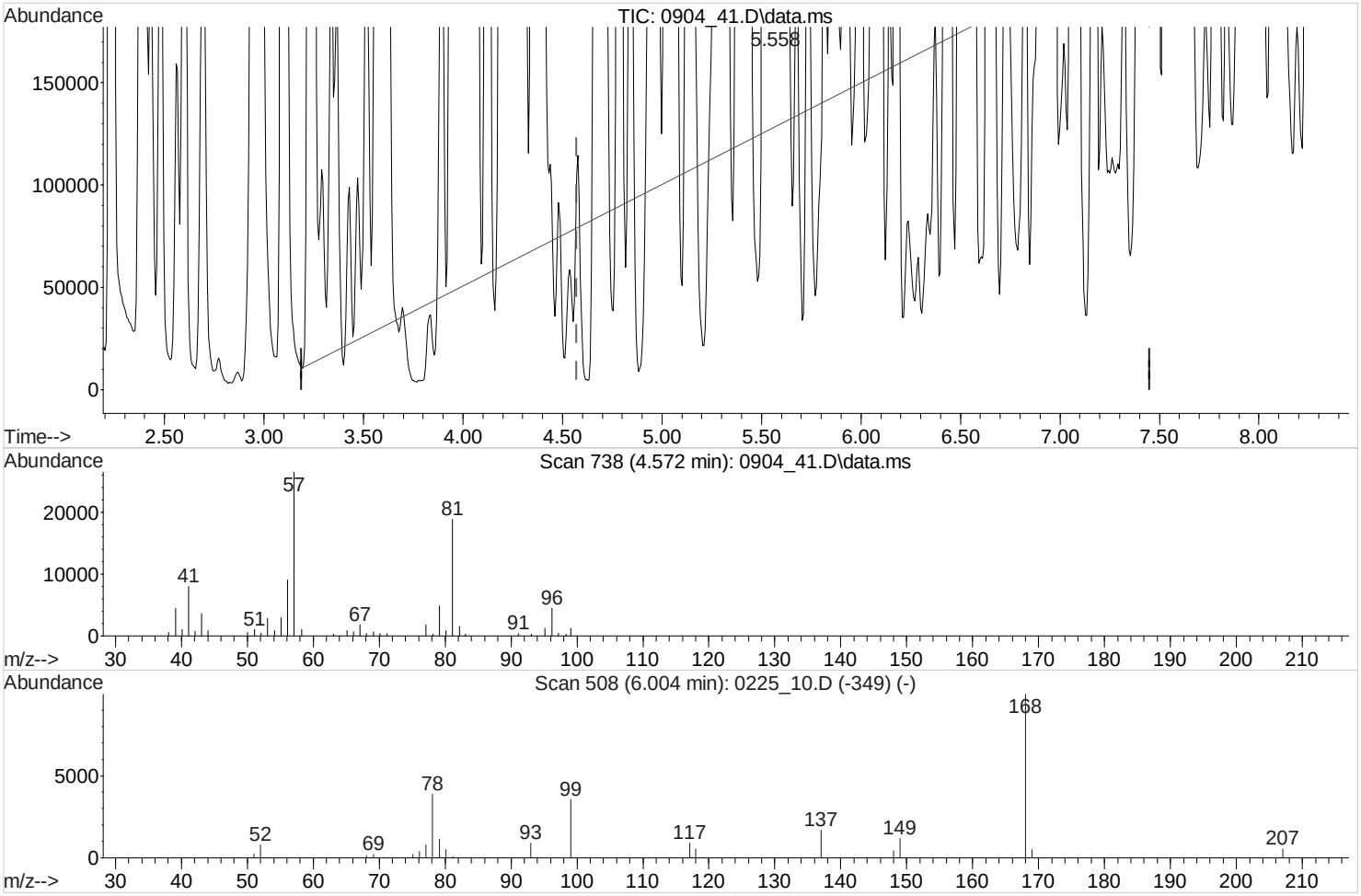


Quantitation Report (Qedit)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 41.D
Acq On : 5 Sep 2015 7:56 am
Operator : 591
Sample : SSCV GROMS 5.0 ppm 15H18660
Misc : water 15G07402
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Sep 07 14:31:30 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration



TIC: 0904_41.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

4.570min (0.000) 3.1178556 ppm m

response 62588824

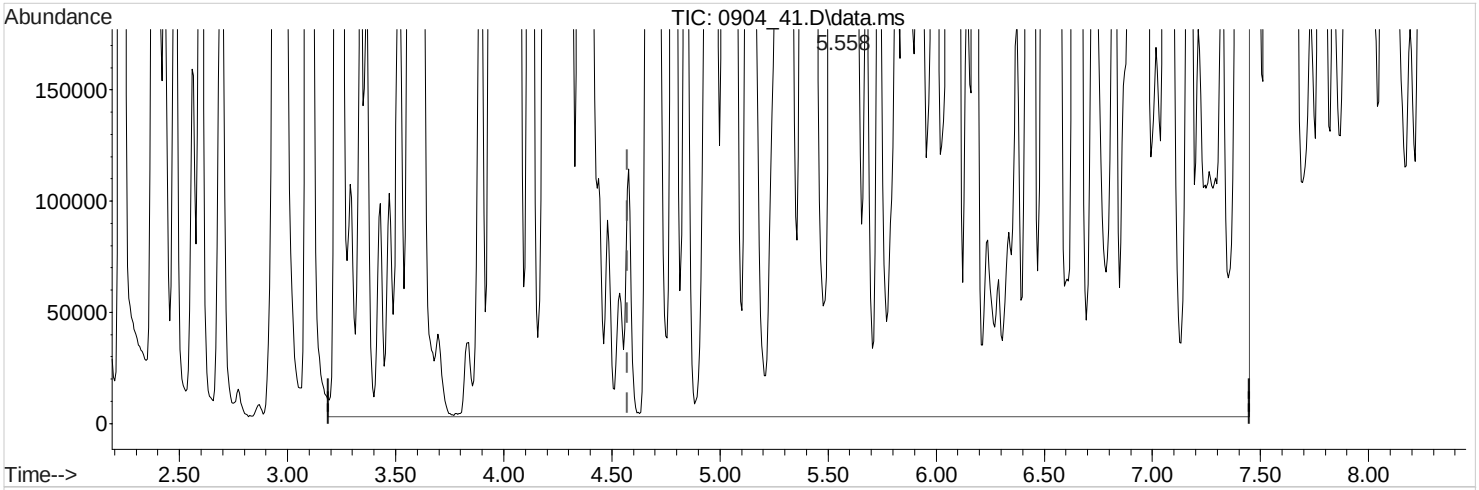
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	1.07#
0.00	0.00	0.44#
0.00	0.00	0.00

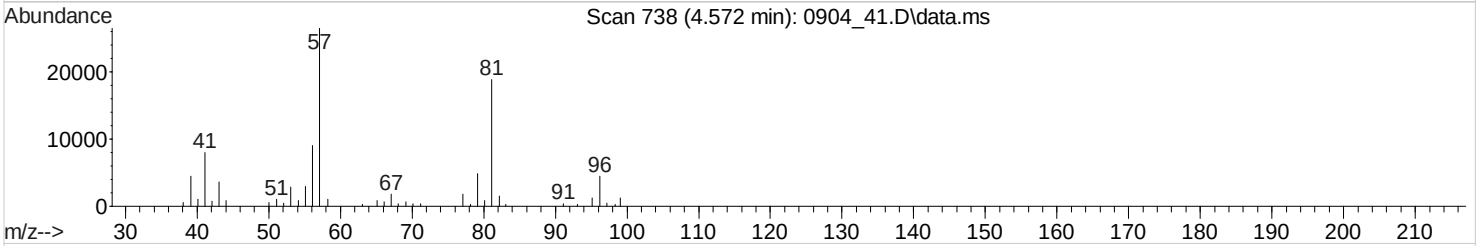
Quantitation Report (Qedit)

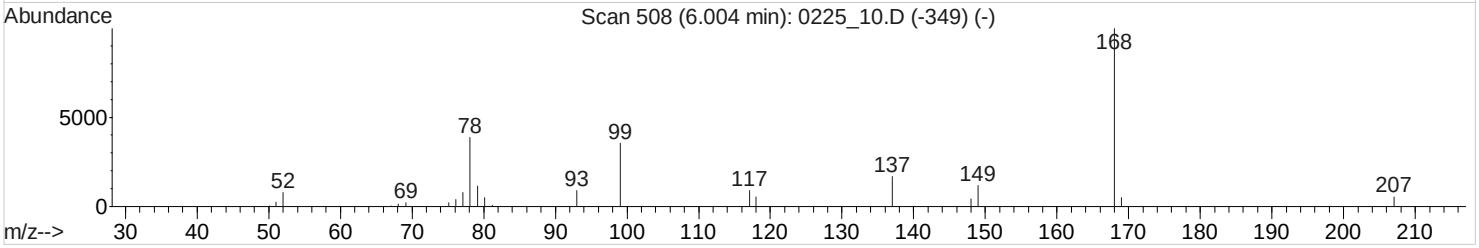
InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 41.D
Acq On : 5 Sep 2015 7:56 am
Operator : 591
Sample : SSCV GROMS 5.0 ppm 15H18660
Misc : water 15G07402
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Sep 07 14:31:30 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration







TIC: 0904_41.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

4.570min (0.000) 6.2249908 ppm m

response 126411604

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.53#
0.00	0.00	0.22#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 42.D
Acq On : 5 Sep 2015 9:49 am
Operator : 591
Sample : SSCV VMS 25 ppb 15I04620
Misc : water 15G07402
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Sep 07 14:10:46 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:09:24 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.359	168	581031	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	989433	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.856	79	149162	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.246	152	415014	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.359	168	581031	40.0000000	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	989433	40.0000000	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.856	79	149162	40.0000000	ppb	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.246	152	415014	40.0000000	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.122	111	293749	41.3302279	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.33%			
46) a,a,a-Trifluorotoluene	5.059	146	544753	42.4533974	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 106.13%			
50) TOLUENE-D8	5.521	98	1166674	41.9708336	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.93%			
68) 4-BROMOFLUOROBENZENE	7.401	95	435106	41.9999317	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 105.00%			
Target Compounds						Qvalue
3) PROPENE	1.658	41	31509	21.3705470	ppb	96
4) DICHLORODIFLUOROMETHANE	1.700	85	134531	24.4893989	ppb	100
5) CHLOROMETHANE	1.877	50	165579	24.8509609	ppb	100
6) VINYL CHLORIDE	1.944	62	178438	26.9596558	ppb	99
7) 1,3-BUTADIENE	1.956	39	123657	25.0292034	ppb	94
8) BROMOMETHANE	2.205	94	102772	36.7730704	ppb	95
9) CHLOROETHANE	2.297	64	92768	28.4362996	ppb	99
10) TRICHLOROFLUOROMETHANE	2.400	101	196575	26.2490661	ppb	99
11) DICHLOROFLUOROMETHANE	2.430	67	250635	25.1696347	ppb	99
12) ETHYL ETHER	2.607	59	100897	24.8904434	ppb	99
13) ACROLEIN	2.966	56	97225	122.9851044	ppb	95
14) 1,1-DICHLOROETHENE	2.753	61	204131	26.8233234	ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	136211	27.0733698	ppb	98
16) ACETONE	3.136	43	316833	153.2071219	ppb	97
17) IODOMETHANE	2.856	142	824980	124.7966917	ppb	100
18) CARBON DISULFIDE	2.789	76	464884	24.5614607	ppb	99
19) METHYLENE CHLORIDE	3.112	84	139899	24.1013811	ppb	99
20) ACRYLONITRILE	3.599	53	185081	121.2944116	ppb	98
21) n-Hexane	3.240	56	130509	25.3853845	ppb	97
22) TRANS-1,2-DICHLOROETHENE	3.209	96	142588	25.6419077	ppb	100
23) METHYL TERT-BUTYL ETHER	3.252	73	340897	25.2287104	ppb	96
24) 1,1-DICHLOROETHANE	3.568	63	244920	26.1528763	ppb	99
25) VINYL ACETATE	3.678	43	1127054	134.9133111	ppb	100
26) DI-ISOPROPYL ETHER	3.459	45	421598	25.4701944	ppb	100
27) 2,2-Dichloropropane	3.939	77	220636	25.8441779	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.872	96	152459	26.0100025	ppb	98
29) 2-BUTANONE (MEK)	4.183	43	345067	135.7174152	ppb	99
30) BROMOCHLOROMETHANE	3.994	130	83278	25.9831753	ppb	100
31) TETRAHYDROFURAN	4.122	42	31026	23.6192340	ppb	100
32) CHLOROFORM	4.012	83	233027	24.9000850	ppb	99
34) 1,1,1-TRICHLOROETHANE	4.152	97	196914	25.6371087	ppb	99
35) CARBON TETRACHLORIDE	4.116	117	191594	26.0591887	ppb	99
36) 1,1-Dichloropropene	4.213	75	180458	26.0599524	ppb	100

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 42.D
Acq On : 5 Sep 2015 9:49 am
Operator : 591
Sample : SSCV VMS 25 ppb 15I04620
Misc : water 15G07402
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Sep 07 14:10:46 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:09:24 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37)	2,2,4-TRIMETHYLPENTANE	4.256	41	138774	24.2614918	ppb		96
38)	HEPTANE	4.292	43	220890	25.6162588	ppb	#	94
39)	BENZENE	4.359	78	546547	25.2885211	ppb		99
40)	1,2-DICHLOROETHANE	4.475	62	157525	25.4364526	ppb		100
42)	TRICHLOROETHENE	4.688	130	142804	25.5362955	ppb		100
43)	1,2-DICHLOROPROPANE	5.004	62	100645	25.5625009	ppb		99
44)	DIBROMOMETHANE	4.949	93	78091	24.8931635	ppb		99
45)	BROMODICHLOROMETHANE	5.022	83	181351	24.2928147	ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.405	75	223851	25.4781404	ppb		99
49)	4-METHYL-2-PENTANONE (...	5.770	43	480637	114.5737928	ppb		100
51)	TOLUENE	5.557	91	606488	25.9421997	ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	5.807	75	189949	25.3784135	ppb		99
54)	1,1,2-TRICHLOROETHANE	5.916	97	109276	24.3638804	ppb		99
55)	TETRACHLOROETHENE	5.807	164	111832	26.5071259	ppb		99
56)	1,3-Dichloropropane	6.105	76	190154	23.7449663	ppb		100
57)	2-HEXANONE	6.312	58	253061	140.9486879	ppb		95
58)	CHLORODIBROMOMETHANE	6.044	129	122614	24.9871223	ppb		100
59)	1,2-DIBROMOETHANE	6.227	107	114960	25.1228893	ppb		100
60)	CHLOROBENZENE	6.561	112	377778	25.9687071	ppb		99
61)	1,1,1,2-TETRACHLOROETHANE	6.598	133	118036	24.9660287	ppb	#	100
62)	ETHYLBENZENE	6.555	106	214205	25.9192390	ppb		99
63)	M&P-XYLENE	6.652	106	517550	50.8955425	ppb		100
64)	O-XYLENE	6.963	106	254834	25.7792796	ppb		99
65)	STYRENE	6.993	104	416772	26.0916339	ppb		96
66)	Bromoform	7.042	173	72570	24.9471080	ppb		97
67)	Isopropylbenzene	7.176	105	663820	25.4526645	ppb		100
69)	Bromobenzene	7.492	77	270728	24.5752725	ppb		99
70)	1,1,2,2-TETRACHLOROETHANE	7.529	83	139968	24.3081759	ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.650	110	34907	23.8501296	ppb		100
72)	TRANS-1,4-DICHLORO-2-B...	7.662	53	32918	22.9337378	ppb		99
73)	n-Propylbenzene	7.480	91	799900	26.0806725	ppb		100
74)	4-ETHYLTOLUENE	7.553	105	653230	25.1443038	ppb		100
75)	2-Chlorotoluene	7.620	126	146408	25.5023310	ppb		97
76)	4-Chlorotoluene	7.741	91	476755	25.5241686	ppb		100
77)	1,3,5-Trimethylbenzene	7.614	105	534914	25.1766294	ppb		99
78)	tert-Butylbenzene	7.863	119	450053	25.6574566	ppb		99
79)	1,2,4-Trimethylbenzene	7.912	105	546782	25.7028136	ppb		99
80)	sec-Butylbenzene	7.997	105	710004	25.2503925	ppb		99
81)	1,3-DICHLOROBENZENE	8.192	146	297478	26.2299075	ppb		100
82)	p-Isopropyltoluene	8.100	119	588872	25.6158517	ppb		99
83)	DICYCLOPENTADIENE	8.106	66	595623	24.6019837	ppb		99
85)	1,4-DICHLOROBENZENE	8.259	146	281247	25.5558764	ppb		97
86)	1,2,3-TRIMETHYLBENZENE	8.259	105	531992	27.0474623	ppb		99
87)	1,2-DICHLOROBENZENE	8.593	146	275382	25.9844248	ppb		99
88)	n-Butylbenzene	8.429	91	575061	25.1321500	ppb		100
89)	1,2-Dibromo-3-chloropr...	9.238	157	25758	23.8552836	ppb		98
90)	1,2,4-Trichlorobenzene	9.786	180	185674	27.6720399	ppb		100
91)	HEXACHLORO-1,3-BUTADIENE	9.743	225	87185	24.6082348	ppb		99
92)	Naphthalene	10.059	128	394758	25.5443823	ppb		100
93)	1,2,3-Trichlorobenzene	10.211	180	156826	26.1146155	ppb		100
94)	1-Methylnaphthalene	10.929	142	164504	28.2593696	ppb		100
95)	2-Methylnaphthalene	11.063	142	130600	25.8976533	ppb		97

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 42.D
Acq On : 5 Sep 2015 9:49 am
Operator : 591
Sample : SSCV VMS 25 ppb 15I04620
Misc : water 15G07402
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Sep 07 14:10:46 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:09:24 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

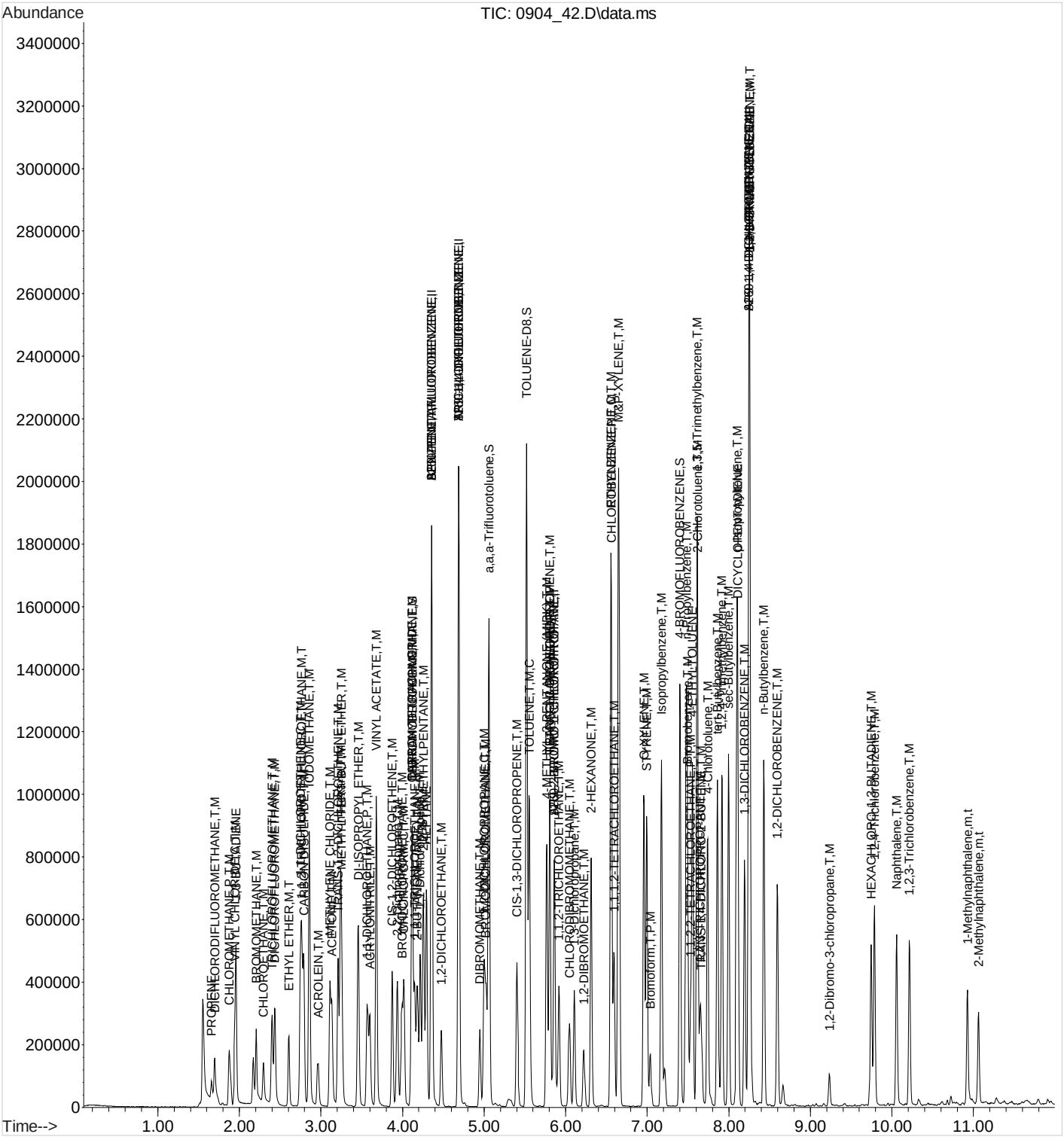
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 42.D
Acq On : 5 Sep 2015 9:49 am
Operator : 591
Sample : SSCV VMS 25 ppb 15I04620
Misc : water 15G07402
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Sep 07 14:10:46 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:09:24 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 04.D
Acq On : 4 Sep 2015 6:01 pm
Operator : 591
Sample : STD VMS 0.25 ppb 15I04618
Misc : water 15G07402
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 07 13:55:39 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.359	168	652370	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1065140	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.856	79	160651	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	453899	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.36
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.69
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.86
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.25
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.122	111	328182	41.3358376	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.34%				
46) a,a,a-Trifluorotoluene	5.059	146	579855	42.6012476	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 106.50%				
50) TOLUENE-D8	5.521	98	1238832	42.0223811	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.06%				
68) 4-BROMOFLUOROBENZENE	7.401	95	458734	41.8643382	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.66%				
Target Compounds							Qvalue
3) PROPENE	1.658	41	2217	1.3584229	ppb		91
4) DICHLORODIFLUOROMETHANE	1.701	85	1852	0.3045598	ppb	#	43
5) CHLOROMETHANE	1.877	50	2836	0.3936340	ppb	#	88
6) VINYL CHLORIDE	1.944	62	1679	0.2186689	ppb	#	53
7) 1,3-BUTADIENE	1.956	39	2713	0.4944415	ppb	#	67
8) BROMOMETHANE	2.206	94	1925	0.6341312	ppb	#	90
9) CHLOROETHANE	2.297	64	1716	0.4534820	ppb	#	61
10) TRICHLOROFLUOROMETHANE	2.400	101	2117	0.2460710	ppb	#	59
11) DICHLOROFLUOROMETHANE	2.437	67	3084	0.2832289	ppb	#	42
12) ETHYL ETHER	2.607	59	1300	0.2886423	ppb	#	69
13) ACROLEIN	2.972	56	2561	2.8976293	ppb		97
14) 1,1-DICHLOROETHENE	2.759	61	2021	0.2281019	ppb	#	84
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	1311	0.2234985	ppb	#	84
16) ACETONE	3.136	43	13367	5.8608979	ppb		98
17) IODOMETHANE	2.856	142	11287	1.5243103	ppb		95
18) CARBON DISULFIDE	2.790	76	6952	0.3453153	ppb		98
19) METHYLENE CHLORIDE	3.118	84	3027	0.4917490	ppb		88
20) ACRYLONITRILE	3.593	53	2252	1.2982776	ppb		85
21) n-Hexane	3.240	56	2922	0.5218521	ppb	#	61
22) TRANS-1,2-DICHLOROETHENE	3.215	96	1617	0.2597025	ppb		85
23) METHYL TERT-BUTYL ETHER	3.252	73	3794	0.2459466	ppb		85
24) 1,1-DICHLOROETHANE	3.568	63	2621	0.2464432	ppb		99
25) VINYL ACETATE	3.684	43	11073	1.0742101	ppb		98
26) DI-ISOPROPYL ETHER	3.459	45	4635	0.2462209	ppb		90
27) 2,2-Dichloropropane	3.933	77	2561	0.2708377	ppb	#	89
28) CIS-1,2-DICHLOROETHENE	3.879	96	1633	0.2475958	ppb		95
29) 2-BUTANONE (MEK)	4.183	43	7794	2.8927755	ppb		93
30) BROMOCHLOROMETHANE	3.994	130	882	0.2394352	ppb		96
31) TETRAHYDROFURAN	4.116	42	1818	1.2470425	ppb	#	70
32) CHLOROFORM	4.012	83	2928	0.2858889	ppb	#	91
34) 1,1,1-TRICHLOROETHANE	4.146	97	2148	0.2491316	ppb		93
35) CARBON TETRACHLORIDE	4.116	117	1738	0.2015876	ppb		92
36) 1,1-Dichloropropene	4.219	75	1944	0.2458996	ppb	#	71

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 04.D
Acq On : 4 Sep 2015 6:01 pm
Operator : 591
Sample : STD VMS 0.25 ppb 15I04618
Misc : water 15G07402
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 07 13:55:39 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.262	41	1931	0.3075228	ppb		70
38) HEPTANE	4.292	43	2418	0.2374385	ppb	#	74
39) BENZENE	4.359	78	6711	0.2821993	ppb	#	1
40) 1,2-DICHLOROETHANE	4.475	62	1770	0.2473941	ppb	#	74
42) TRICHLOROETHENE	4.688	130	1484	0.2433411	ppb	#	89
43) 1,2-DICHLOROPROPANE	4.998	62	1046	0.2482244	ppb	#	88
44) DIBROMOMETHANE	4.949	93	851	0.2491906	ppb	#	80
45) BROMODICHLOROMETHANE	5.028	83	2176	0.2857572	ppb	#	94
48) CIS-1,3-DICHLOROPROPENE	5.406	75	2412	0.2547095	ppb	#	67
49) 4-METHYL-2-PENTANONE (...	5.771	43	5847	1.2910947	ppb		100
51) TOLUENE	5.551	91	8089	0.3266383	ppb		90
52) TRANS-1,3-DICHLOROPROPENE	5.807	75	1936	0.2394633	ppb	#	50
54) 1,1,2-TRICHLOROETHANE	5.917	97	1572	0.3307231	ppb	#	84
55) TETRACHLOROETHENE	5.813	164	1037	0.2261985	ppb	#	85
56) 1,3-Dichloropropane	6.105	76	2858	0.3493987	ppb		97
57) 2-HEXANONE	6.312	58	2865	1.5802140	ppb		94
58) CHLORODIBROMOMETHANE	6.044	129	1300	0.2441782	ppb	#	87
59) 1,2-DIBROMOETHANE	6.227	107	1319	0.2681788	ppb		94
60) CHLOROBENZENE	6.561	112	3681	0.2319730	ppb	#	81
61) 1,1,1,2-TETRACHLOROETHANE	6.592	133	1332	0.2625692	ppb	#	90
62) ETHYLBENZENE	6.555	106	2336	0.2622465	ppb		92
63) M&P-XYLENE	6.653	106	6077	0.5648981	ppb		88
64) O-XYLENE	6.963	106	2808	0.2694318	ppb		90
65) STYRENE	6.993	104	4325	0.2495449	ppb	#	81
66) Bromoform	7.036	173	715	0.2236480	ppb	#	27
67) Isopropylbenzene	7.176	105	7589	0.2697080	ppb	#	92
69) Bromobenzene	7.492	77	3444	0.2947793	ppb	#	85
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	1717	0.2806728	ppb	#	90
73) n-Propylbenzene	7.480	91	8343	0.2499532	ppb		98
74) 4-ETHYLTOLUENE	7.553	105	7609	0.2741679	ppb		98
75) 2-Chlorotoluene	7.620	126	1616	0.2627604	ppb		95
76) 4-Chlorotoluene	7.742	91	5583	0.2765629	ppb	#	84
77) 1,3,5-Trimethylbenzene	7.614	105	5696	0.2493115	ppb		98
78) tert-Butylbenzene	7.863	119	4843	0.2501745	ppb		86
79) 1,2,4-Trimethylbenzene	7.912	105	6422	0.2845798	ppb		98
80) sec-Butylbenzene	7.997	105	7866	0.2583443	ppb		99
81) 1,3-DICHLOROBENZENE	8.192	146	3045	0.2469711	ppb		97
82) p-Isopropyltoluene	8.101	119	6563	0.2630011	ppb	#	85
83) DICYCLOPENTADIENE	8.107	66	6065	0.2238918	ppb		95
85) 1,4-DICHLOROBENZENE	8.259	146	3105	0.2584645	ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.283	105	19283	0.8374611	ppb	#	34
87) 1,2-DICHLOROBENZENE	8.599	146	2784	0.2368424	ppb		89
88) n-Butylbenzene	8.435	91	9166	0.3697190	ppb	#	79
90) 1,2,4-Trichlorobenzene	9.786	180	1567	0.2016648	ppb		90
91) HEXACHLORO-1,3-BUTADIENE	9.743	225	877	0.2319377	ppb		96
92) Naphthalene	10.059	128	4378	0.2525330	ppb	#	71
93) 1,2,3-Trichlorobenzene	10.212	180	1492	0.2181917	ppb	#	86
94) 1-Methylnaphthalene	10.929	142	1461	0.2178774	ppb		93
95) 2-Methylnaphthalene	11.063	142	1327	0.2311411	ppb	#	92

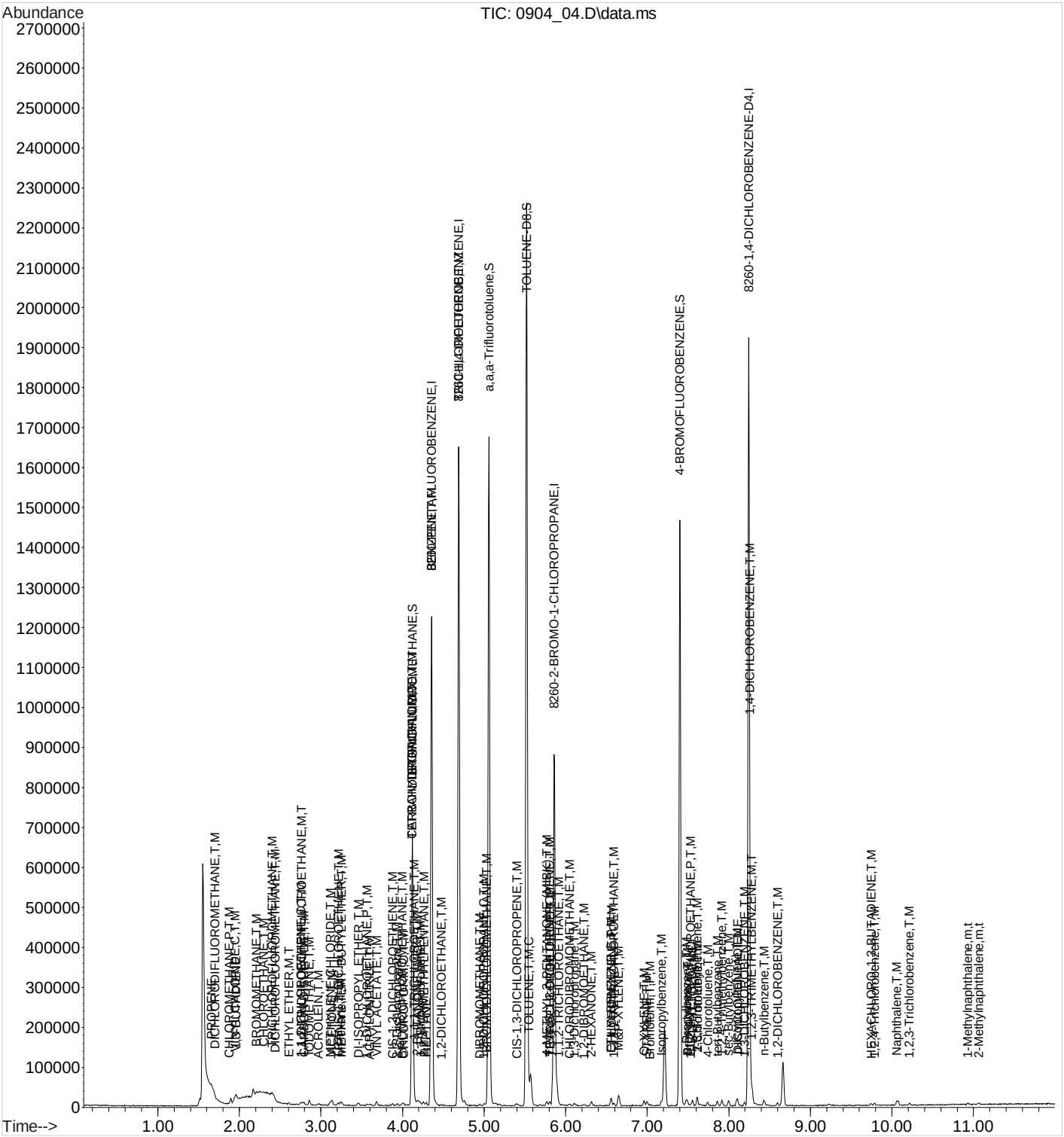
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 04.D
Acq On : 4 Sep 2015 6:01 pm
Operator : 591
Sample : STD VMS 0.25 ppb 15I04618
Misc : water 15G07402
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 07 13:55:39 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 05.D
Acq On : 4 Sep 2015 6:23 pm
Operator : 591
Sample : STD VMS 0.5 ppb 15I04618
Misc : water 15G07402
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 07 13:56:03 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.359	168	643408	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1045627	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.862	79	160682	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.246	152	447356	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.36
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.69
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.86
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.25
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.122	111	325241	41.5360121	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.84%			
46) a,a,a-Trifluorotoluene	5.059	146	577640	43.2304819	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 108.08%			
50) TOLUENE-D8	5.521	98	1223450	42.2750736	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.69%			
68) 4-BROMOFLUOROBENZENE	7.401	95	452596	41.2962120	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.24%			
Target Compounds						Qvalue
3) PROPENE	1.652	41	2423	1.5053248	ppb #	77
4) DICHLORODIFLUOROMETHANE	1.700	85	3064	0.5108905	ppb	99
5) CHLOROMETHANE	1.883	50	4455	0.6269626	ppb #	91
6) VINYL CHLORIDE	1.944	62	3396	0.4484475	ppb #	72
7) 1,3-BUTADIENE	1.956	39	3477	0.6425063	ppb	99
8) BROMOMETHANE	2.205	94	3132	1.0461108	ppb #	86
9) CHLOROETHANE	2.297	64	2467	0.6610273	ppb #	67
10) TRICHLOROFLUOROMETHANE	2.394	101	4047	0.4769583	ppb #	83
11) DICHLOROFLUOROMETHANE	2.430	67	5985	0.5573075	ppb	97
12) ETHYL ETHER	2.601	59	2381	0.5360232	ppb #	79
13) ACROLEIN	2.960	56	4367	5.0098412	ppb #	73
14) 1,1-DICHLOROETHENE	2.747	61	4148	0.4746886	ppb	97
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	2938	0.5078451	ppb #	85
16) ACETONE	3.136	43	17108	7.6056612	ppb	98
17) IODOMETHANE	2.856	142	20348	2.7862759	ppb	98
18) CARBON DISULFIDE	2.789	76	11870	0.5978115	ppb #	91
19) METHYLENE CHLORIDE	3.112	84	4112	0.6773165	ppb	93
20) ACRYLONITRILE	3.599	53	4021	2.3503945	ppb #	95
21) n-Hexane	3.234	56	3911	0.7082109	ppb #	60
22) TRANS-1,2-DICHLOROETHENE	3.215	96	3227	0.5254998	ppb	91
23) METHYL TERT-BUTYL ETHER	3.252	73	7403	0.4865851	ppb #	73
24) 1,1-DICHLOROETHANE	3.574	63	5113	0.4874533	ppb #	87
25) VINYL ACETATE	3.684	43	24121	2.3726123	ppb	98
26) DI-ISOPROPYL ETHER	3.459	45	9251	0.4982777	ppb	91
27) 2,2-Dichloropropane	3.939	77	5005	0.5366747	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.878	96	3369	0.5179234	ppb	97
29) 2-BUTANONE (MEK)	4.183	43	10762	4.0499983	ppb	93
30) BROMOCHLOROMETHANE	3.994	130	1725	0.4748058	ppb	92
31) TETRAHYDROFURAN	4.128	42	2133	1.4834939	ppb #	63
32) CHLOROFORM	4.018	83	5405	0.5350933	ppb	98
34) 1,1,1-TRICHLOROETHANE	4.152	97	4394	0.5167281	ppb	95
35) CARBON TETRACHLORIDE	4.116	117	4368	0.5136937	ppb	97
36) 1,1-Dichloropropene	4.219	75	3970	0.5091662	ppb #	86

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 05.D
Acq On : 4 Sep 2015 6:23 pm
Operator : 591
Sample : STD VMS 0.5 ppb 15I04618
Misc : water 15G07402
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 07 13:56:03 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.256	41	3565	0.5756547	ppb		78
38) HEPTANE	4.292	43	4375	0.4355925	ppb	#	65
39) BENZENE	4.359	78	13215	0.5634345	ppb	#	26
40) 1,2-DICHLOROETHANE	4.475	62	3211	0.4550549	ppb	#	74
42) TRICHLOROETHENE	4.688	130	2813	0.4698739	ppb	#	91
43) 1,2-DICHLOROPROPANE	5.004	62	2285	0.5523686	ppb		98
44) DIBROMOMETHANE	4.943	93	1713	0.5109629	ppb	#	86
45) BROMODICHLOROMETHANE	5.028	83	4725	0.6320770	ppb	#	84
48) CIS-1,3-DICHLOROPROPENE	5.405	75	4899	0.5269935	ppb	#	95
49) 4-METHYL-2-PENTANONE (...	5.770	43	11455	2.5766179	ppb		97
51) TOLUENE	5.557	91	13888	0.5712706	ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.807	75	4223	0.5320893	ppb	#	88
54) 1,1,2-TRICHLOROETHANE	5.922	97	2311	0.4861028	ppb	#	81
55) TETRACHLOROETHENE	5.807	164	2423	0.5284216	ppb		95
56) 1,3-Dichloropropane	6.105	76	4769	0.5829115	ppb		92
57) 2-HEXANONE	6.318	58	5263	2.9022903	ppb		97
58) CHLORODIBROMOMETHANE	6.050	129	2532	0.4754923	ppb		98
59) 1,2-DIBROMOETHANE	6.227	107	2395	0.4868570	ppb		99
60) CHLOROBENZENE	6.561	112	8284	0.5219487	ppb		93
61) 1,1,1,2-TETRACHLOROETHANE	6.592	133	2641	0.5205040	ppb	#	92
62) ETHYLBENZENE	6.555	106	4570	0.5129433	ppb		95
63) M&P-XYLENE	6.653	106	12118	1.1262325	ppb		99
64) O-XYLENE	6.957	106	5740	0.5506553	ppb		91
65) STYRENE	6.993	104	8740	0.5041853	ppb	#	82
66) Bromoform	7.036	173	1385	0.4331367	ppb		96
67) Isopropylbenzene	7.176	105	14953	0.5313171	ppb	#	94
69) Bromobenzene	7.492	77	6137	0.5251776	ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	3349	0.5473453	ppb	#	83
71) 1,2,3-TRICHLOROPROPANE	7.650	110	872	0.5679190	ppb		88
72) TRANS-1,4-DICHLORO-2-B...	7.662	53	794	0.5428816	ppb	#	49
73) n-Propylbenzene	7.480	91	17159	0.5139781	ppb		99
74) 4-ETHYLTOLUENE	7.559	105	15264	0.5498871	ppb		97
75) 2-Chlorotoluene	7.620	126	3100	0.5039605	ppb		91
76) 4-Chlorotoluene	7.741	91	10962	0.5429156	ppb		93
77) 1,3,5-Trimethylbenzene	7.614	105	12306	0.5385245	ppb		94
78) tert-Butylbenzene	7.863	119	9648	0.4982899	ppb		96
79) 1,2,4-Trimethylbenzene	7.912	105	12541	0.5556254	ppb		92
80) sec-Butylbenzene	7.997	105	15950	0.5237472	ppb		99
81) 1,3-DICHLOROBENZENE	8.192	146	6234	0.5055241	ppb		100
82) p-Isopropyltoluene	8.100	119	13058	0.5231763	ppb		95
83) DICYCLOPENTADIENE	8.106	66	12131	0.4477340	ppb		96
85) 1,4-DICHLOROBENZENE	8.265	146	6392	0.5398611	ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.277	105	23313	1.0272926	ppb	#	70
87) 1,2-DICHLOROBENZENE	8.599	146	5859	0.5057311	ppb		97
88) n-Butylbenzene	8.429	91	14991	0.6135196	ppb		88
89) 1,2-Dibromo-3-chloropr...	9.232	157	510	0.4380558	ppb	#	53
90) 1,2,4-Trichlorobenzene	9.779	180	3527	0.4605456	ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.743	225	2041	0.5476723	ppb		90
92) Naphthalene	10.059	128	8286	0.4849459	ppb		96
93) 1,2,3-Trichlorobenzene	10.217	180	3271	0.4853510	ppb		99
94) 1-Methylnaphthalene	10.935	142	2822	0.4269970	ppb		97
95) 2-Methylnaphthalene	11.063	142	2658	0.4697505	ppb		96

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 05.D
Acq On : 4 Sep 2015 6:23 pm
Operator : 591
Sample : STD VMS 0.5 ppb 15I04618
Misc : water 15G07402
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 07 13:56:03 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

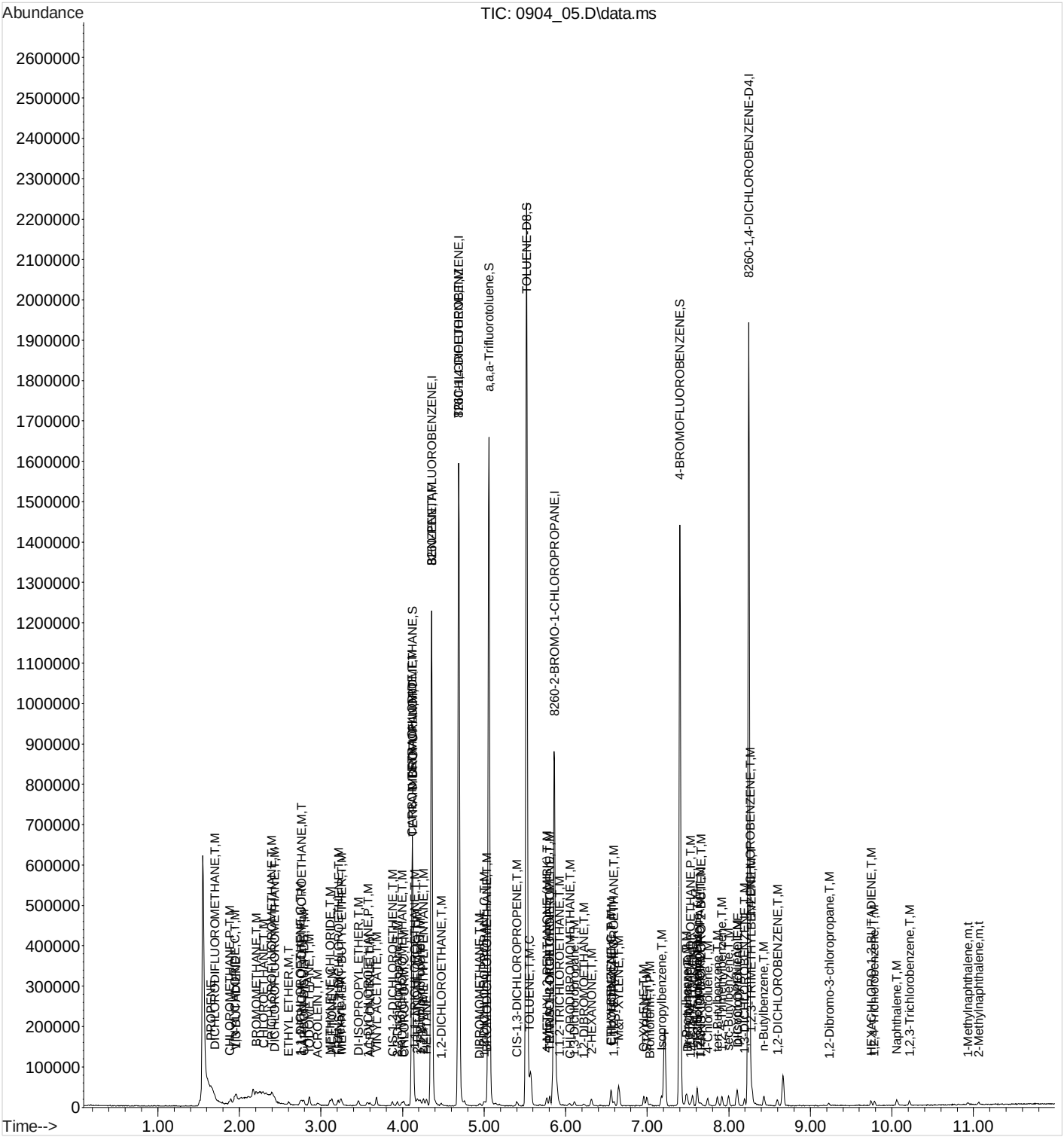
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 05.D
Acq On : 4 Sep 2015 6:23 pm
Operator : 591
Sample : STD VMS 0.5 ppb 15I04618
Misc : water 15G07402
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 07 13:56:03 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 06.D
Acq On : 4 Sep 2015 6:46 pm
Operator : 591
Sample : STD VMS 1 ppb 15I04618
Misc : water 15G07402
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 07 13:56:25 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.359	168	646156	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1062677	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.862	79	161406	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	453392	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.36
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.69
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.86
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.25
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.122	111	333060	42.3536713	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 105.88%				
46) a,a,a-Trifluorotoluene	5.059	146	589102	43.3809264	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 108.45%				
50) TOLUENE-D8	5.521	98	1253647	42.6234816	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 106.56%				
68) 4-BROMOFLUOROBENZENE	7.401	95	467752	42.4876501	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 106.22%				
Target Compounds							Qvalue
3) PROPENE	1.658	41	3442	2.1292995	ppb		92
4) DICHLORODIFLUOROMETHANE	1.695	85	6011	0.9980100	ppb		96
5) CHLOROMETHANE	1.877	50	8157	1.1430717	ppb		98
6) VINYL CHLORIDE	1.944	62	7598	0.9990616	ppb		92
7) 1,3-BUTADIENE	1.956	39	5916	1.0885539	ppb		95
8) BROMOMETHANE	2.206	94	4787	1.5920931	ppb	#	90
9) CHLOROETHANE	2.291	64	4453	1.1880974	ppb	#	93
10) TRICHLOROFLUOROMETHANE	2.400	101	8929	1.0478499	ppb	#	96
11) DICHLOROFLUOROMETHANE	2.431	67	11794	1.0935557	ppb		98
12) ETHYL ETHER	2.607	59	4639	1.0399144	ppb		91
13) ACROLEIN	2.960	56	4880	5.5745481	ppb		94
14) 1,1-DICHLOROETHENE	2.753	61	8533	0.9723461	ppb		96
15) 1,1,2-TRICHLOROTRIFLUO...	2.771	101	5677	0.9771190	ppb		95
16) ACETONE	3.136	43	21764	9.6344189	ppb		98
17) IODOMETHANE	2.857	142	36851	5.0245912	ppb		99
18) CARBON DISULFIDE	2.790	76	21243	1.0653160	ppb	#	93
19) METHYLENE CHLORIDE	3.112	84	7503	1.2306161	ppb		94
20) ACRYLONITRILE	3.599	53	8908	5.1848473	ppb		95
21) n-Hexane	3.240	56	6710	1.2098913	ppb		90
22) TRANS-1,2-DICHLOROETHENE	3.209	96	6719	1.0895002	ppb		91
23) METHYL TERT-BUTYL ETHER	3.258	73	15861	1.0380796	ppb		97
24) 1,1-DICHLOROETHANE	3.568	63	10306	0.9783550	ppb		99
25) VINYL ACETATE	3.678	43	48818	4.7814600	ppb		99
26) DI-ISOPROPYL ETHER	3.459	45	18670	1.0013275	ppb		96
27) 2,2-Dichloropropane	3.933	77	9897	1.0567194	ppb		98
28) CIS-1,2-DICHLOROETHENE	3.873	96	6448	0.9870488	ppb		94
29) 2-BUTANONE (MEK)	4.183	43	17936	6.7210407	ppb		97
30) BROMOCHLOROMETHANE	3.988	130	3737	1.0242339	ppb		95
31) TETRAHYDROFURAN	4.116	42	2034	1.4086235	ppb	#	47
32) CHLOROFORM	4.019	83	10984	1.0827879	ppb		96
34) 1,1,1-TRICHLOROETHANE	4.152	97	8841	1.0352673	ppb		98
35) CARBON TETRACHLORIDE	4.110	117	7108	0.8323733	ppb		81
36) 1,1-Dichloropropene	4.213	75	7653	0.9773495	ppb		92

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 06.D
Acq On : 4 Sep 2015 6:46 pm
Operator : 591
Sample : STD VMS 1 ppb 15I04618
Misc : water 15G07402
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 07 13:56:25 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.256	41	6242	1.0036340	ppb		99
38) HEPTANE	4.292	43	9712	0.9628532	ppb	#	86
39) BENZENE	4.359	78	24014	1.0195061	ppb	#	58
40) 1,2-DICHLOROETHANE	4.475	62	6878	0.9705877	ppb		97
42) TRICHLOROETHENE	4.688	130	6155	1.0116147	ppb		93
43) 1,2-DICHLOROPROPANE	5.004	62	4576	1.0884395	ppb		98
44) DIBROMOMETHANE	4.949	93	3376	0.9908546	ppb		94
45) BROMODICHLOROMETHANE	5.028	83	8715	1.1471258	ppb	#	91
48) CIS-1,3-DICHLOROPROPENE	5.406	75	9007	0.9533524	ppb	#	84
49) 4-METHYL-2-PENTANONE (...	5.771	43	25666	5.6805269	ppb		92
51) TOLUENE	5.552	91	26468	1.0712696	ppb		96
52) TRANS-1,3-DICHLOROPROPENE	5.807	75	8560	1.0612379	ppb		97
54) 1,1,2-TRICHLOROETHANE	5.917	97	4892	1.0243826	ppb		94
55) TETRACHLOROETHENE	5.807	164	4808	1.0438526	ppb		97
56) 1,3-Dichloropropane	6.105	76	9096	1.1068105	ppb		92
57) 2-HEXANONE	6.312	58	10307	5.6583175	ppb		97
58) CHLORODIBROMOMETHANE	6.044	129	5336	0.9975695	ppb		97
59) 1,2-DIBROMOETHANE	6.227	107	5089	1.0298546	ppb		97
60) CHLOROBENZENE	6.561	112	16540	1.0374586	ppb		97
61) 1,1,1,2-TETRACHLOROETHANE	6.598	133	5152	1.0108323	ppb	#	98
62) ETHYLBENZENE	6.555	106	8892	0.9935739	ppb		92
63) M&P-XYLENE	6.653	106	22735	2.1034859	ppb		97
64) O-XYLENE	6.963	106	10787	1.0301873	ppb		94
65) STYRENE	6.993	104	17504	1.0052258	ppb		94
66) Bromoform	7.036	173	3205	0.9978168	ppb		95
67) Isopropylbenzene	7.176	105	29485	1.0429756	ppb		98
69) Bromobenzene	7.492	77	12246	1.0432584	ppb		95
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	6438	1.0474777	ppb	#	97
71) 1,2,3-TRICHLOROPROPANE	7.650	110	1673	1.0847094	ppb		99
72) TRANS-1,4-DICHLORO-2-B...	7.669	53	1786	1.2156642	ppb		91
73) n-Propylbenzene	7.480	91	34263	1.0217051	ppb		99
74) 4-ETHYLTOLUENE	7.553	105	29099	1.0435922	ppb		99
75) 2-Chlorotoluene	7.614	126	6377	1.0320454	ppb		96
76) 4-Chlorotoluene	7.742	91	19814	0.9769272	ppb		97
77) 1,3,5-Trimethylbenzene	7.614	105	24975	1.0880318	ppb		96
78) tert-Butylbenzene	7.863	119	19025	0.9781760	ppb		92
79) 1,2,4-Trimethylbenzene	7.918	105	24173	1.0661739	ppb		98
80) sec-Butylbenzene	7.997	105	31212	1.0203055	ppb		100
81) 1,3-DICHLOROBENZENE	8.192	146	12749	1.0291976	ppb		99
82) p-Isopropyltoluene	8.101	119	25677	1.0241492	ppb		97
83) DICYCLOPENTADIENE	8.107	66	28499	1.0471302	ppb		99
85) 1,4-DICHLOROBENZENE	8.259	146	12948	1.0790146	ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.259	105	35063	1.5244897	ppb	#	76
87) 1,2-DICHLOROBENZENE	8.593	146	12402	1.0562515	ppb		96
88) n-Butylbenzene	8.429	91	27740	1.1201694	ppb		91
89) 1,2-Dibromo-3-chloropr...	9.238	157	1300	1.1017473	ppb	#	81
90) 1,2,4-Trichlorobenzene	9.786	180	7609	0.9803342	ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.743	225	4050	1.0722899	ppb		96
92) Naphthalene	10.060	128	16889	0.9752854	ppb		96
93) 1,2,3-Trichlorobenzene	10.212	180	6731	0.9854496	ppb		94
94) 1-Methylnaphthalene	10.929	142	5472	0.8169460	ppb		91
95) 2-Methylnaphthalene	11.063	142	5006	0.8729362	ppb		89

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 06.D
Acq On : 4 Sep 2015 6:46 pm
Operator : 591
Sample : STD VMS 1 ppb 15I04618
Misc : water 15G07402
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 07 13:56:25 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

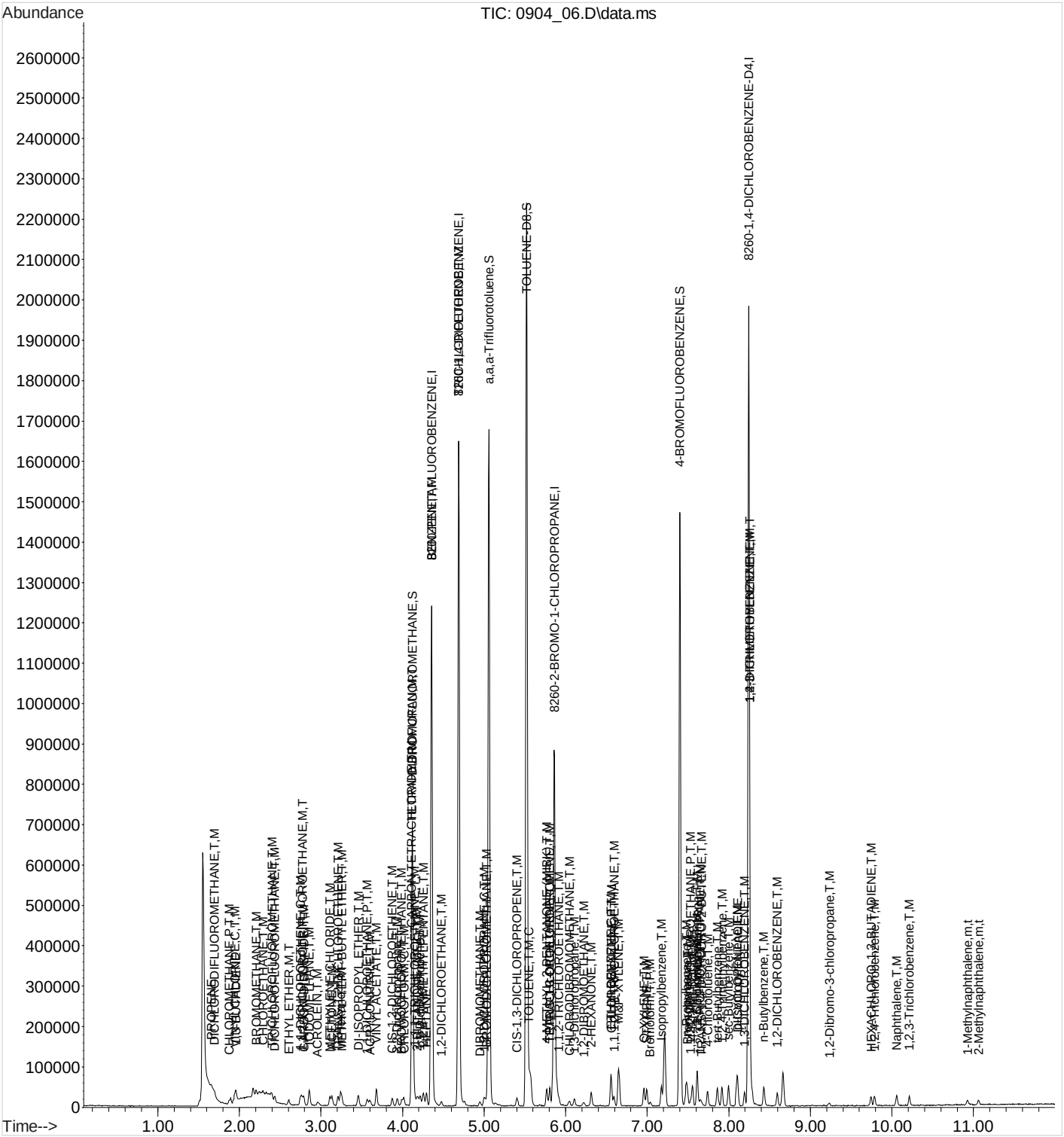
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 06.D
Acq On : 4 Sep 2015 6:46 pm
Operator : 591
Sample : STD VMS 1 ppb 15I04618
Misc : water 15G07402
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Sep 07 13:56:25 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 07.D
Acq On : 4 Sep 2015 7:09 pm
Operator : 591
Sample : STD VMS 2 ppb 15I04618
Misc : water 15G07402
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 07 13:56:54 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.359	168	643563	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1055689	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.862	79	159243	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.246	152	446502	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.36
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.69
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.86
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.25
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.122	111	332509	42.4539695	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 106.13%				
46) a,a,a-Trifluorotoluene	5.059	146	587918	43.5803152	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 108.95%				
50) TOLUENE-D8	5.521	98	1262713	43.2159029	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 108.04%				
68) 4-BROMOFLUOROBENZENE	7.401	95	467665	43.0567506	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 107.64%				
Target Compounds							Qvalue
3) PROPENE	1.658	41	4952	3.0757628	ppb	#	87
4) DICHLORODIFLUOROMETHANE	1.701	85	12037	2.0065626	ppb		99
5) CHLOROMETHANE	1.877	50	14734	2.0730510	ppb		99
6) VINYL CHLORIDE	1.944	62	14526	1.9177206	ppb		91
7) 1,3-BUTADIENE	1.956	39	10561	1.9510712	ppb		91
8) BROMOMETHANE	2.205	94	9094	3.0367307	ppb		97
9) CHLOROETHANE	2.291	64	8483	2.2724542	ppb	#	88
10) TRICHLOROFLUOROMETHANE	2.400	101	16462	1.9396580	ppb	#	94
11) DICHLOROFLUOROMETHANE	2.431	67	21759	2.0256528	ppb		100
12) ETHYL ETHER	2.607	59	8530	1.9198557	ppb		90
13) ACROLEIN	2.966	56	8941	10.2546833	ppb		96
14) 1,1-DICHLOROETHENE	2.753	61	16506	1.8884577	ppb		97
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	10980	1.8974800	ppb		95
16) ACETONE	3.136	43	32401	14.4009631	ppb		100
17) IODOMETHANE	2.856	142	72058	9.8646113	ppb		98
18) CARBON DISULFIDE	2.790	76	42132	2.1213924	ppb		99
19) METHYLENE CHLORIDE	3.112	84	12838	2.1141282	ppb		98
20) ACRYLONITRILE	3.599	53	17130	10.0105846	ppb		97
21) n-Hexane	3.240	56	12734	2.3053401	ppb		93
22) TRANS-1,2-DICHLOROETHENE	3.209	96	11899	1.9372223	ppb		99
23) METHYL TERT-BUTYL ETHER	3.258	73	30615	2.0117809	ppb		94
24) 1,1-DICHLOROETHANE	3.568	63	21316	2.0316943	ppb		99
25) VINYL ACETATE	3.678	43	93522	9.1968826	ppb		100
26) DI-ISOPROPYL ETHER	3.459	45	36738	1.9783068	ppb		100
27) 2,2-Dichloropropane	3.939	77	19160	2.0539882	ppb		95
28) CIS-1,2-DICHLOROETHENE	3.872	96	13125	2.0172478	ppb		99
29) 2-BUTANONE (MEK)	4.183	43	30255	11.3829387	ppb		98
30) BROMOCHLOROMETHANE	3.988	130	7002	1.9268347	ppb		93
31) TETRAHYDROFURAN	4.122	42	4581	3.1853018	ppb	#	90
32) CHLOROFORM	4.018	83	20405	2.0196020	ppb		99
34) 1,1,1-TRICHLOROETHANE	4.152	97	16982	1.9965778	ppb		98
35) CARBON TETRACHLORIDE	4.116	117	16993	1.9979614	ppb		100
36) 1,1-Dichloropropene	4.213	75	15080	1.9335963	ppb		95

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 07.D
Acq On : 4 Sep 2015 7:09 pm
Operator : 591
Sample : STD VMS 2 ppb 15I04618
Misc : water 15G07402
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 07 13:56:54 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.256	41	12591	2.0326290	ppb		93
38) HEPTANE	4.292	43	19602	1.9511835	ppb	#	91
39) BENZENE	4.359	78	47535	2.0262133	ppb	#	79
40) 1,2-DICHLOROETHANE	4.475	62	13224	1.8736211	ppb		96
42) TRICHLOROETHENE	4.688	130	12499	2.0678909	ppb		99
43) 1,2-DICHLOROPROPANE	5.004	62	8553	2.0478683	ppb		98
44) DIBROMOMETHANE	4.949	93	6182	1.8264247	ppb		95
45) BROMODICHLOROMETHANE	5.028	83	16176	2.1432859	ppb	#	92
48) CIS-1,3-DICHLOROPROPENE	5.405	75	18776	2.0005144	ppb		97
49) 4-METHYL-2-PENTANONE (...	5.770	43	44376	9.8865295	ppb		98
51) TOLUENE	5.551	91	53581	2.1830001	ppb		97
52) TRANS-1,3-DICHLOROPROPENE	5.807	75	15823	1.9746635	ppb		98
54) 1,1,2-TRICHLOROETHANE	5.916	97	9307	1.9753533	ppb		97
55) TETRACHLOROETHENE	5.813	164	9585	2.1092408	ppb		97
56) 1,3-Dichloropropane	6.105	76	17216	2.1233149	ppb		100
57) 2-HEXANONE	6.312	58	19678	10.9495260	ppb		96
58) CHLORODIBROMOMETHANE	6.044	129	10555	2.0000687	ppb		99
59) 1,2-DIBROMOETHANE	6.227	107	9893	2.0292277	ppb		100
60) CHLOROBENZENE	6.561	112	32273	2.0517949	ppb		98
61) 1,1,1,2-TETRACHLOROETHANE	6.598	133	10310	2.0503181	ppb	#	98
62) ETHYLBENZENE	6.555	106	18229	2.0645379	ppb		100
63) M&P-XYLENE	6.653	106	44930	4.2134747	ppb		97
64) O-XYLENE	6.957	106	21296	2.0614503	ppb		94
65) STYRENE	6.993	104	35051	2.0402626	ppb		99
66) Bromoform	7.042	173	6263	1.9763529	ppb		98
67) Isopropylbenzene	7.176	105	57574	2.0642332	ppb		99
69) Bromobenzene	7.492	77	24888	2.1490521	ppb		95
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	12732	2.0996638	ppb		95
71) 1,2,3-TRICHLOROPROPANE	7.650	110	3253	2.1377694	ppb	#	82
72) TRANS-1,4-DICHLORO-2-B...	7.662	53	3238	2.2339236	ppb	#	85
73) n-Propylbenzene	7.480	91	67644	2.0445078	ppb		99
74) 4-ETHYLTOLUENE	7.553	105	56628	2.0584641	ppb		97
75) 2-Chlorotoluene	7.614	126	13272	2.1770984	ppb		92
76) 4-Chlorotoluene	7.735	91	40608	2.0293688	ppb		99
77) 1,3,5-Trimethylbenzene	7.614	105	47970	2.1181912	ppb		97
78) tert-Butylbenzene	7.863	119	39462	2.0565096	ppb		98
79) 1,2,4-Trimethylbenzene	7.912	105	46699	2.0876822	ppb		100
80) sec-Butylbenzene	7.997	105	62915	2.0845972	ppb		99
81) 1,3-DICHLOROBENZENE	8.192	146	25112	2.0547703	ppb		98
82) p-Isopropyltoluene	8.100	119	51121	2.0667009	ppb		97
83) DICYCLOPENTADIENE	8.107	66	53650	1.9980213	ppb		99
85) 1,4-DICHLOROBENZENE	8.259	146	23847	2.0179428	ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.259	105	56536	2.4960365	ppb		89
87) 1,2-DICHLOROBENZENE	8.593	146	23234	2.0093243	ppb		98
88) n-Butylbenzene	8.429	91	50265	2.0610730	ppb		98
89) 1,2-Dibromo-3-chloropr...	9.238	157	2190	1.8846608	ppb		98
90) 1,2,4-Trichlorobenzene	9.786	180	14816	1.9383312	ppb		95
91) HEXACHLORO-1,3-BUTADIENE	9.743	225	7869	2.1155689	ppb		97
92) Naphthalene	10.059	128	31842	1.8671473	ppb		99
93) 1,2,3-Trichlorobenzene	10.211	180	12927	1.9217771	ppb		97
94) 1-Methylnaphthalene	10.929	142	11765	1.7835678	ppb		96
95) 2-Methylnaphthalene	11.063	142	10862	1.9233216	ppb		98

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 07.D
Acq On : 4 Sep 2015 7:09 pm
Operator : 591
Sample : STD VMS 2 ppb 15I04618
Misc : water 15G07402
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 07 13:56:54 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

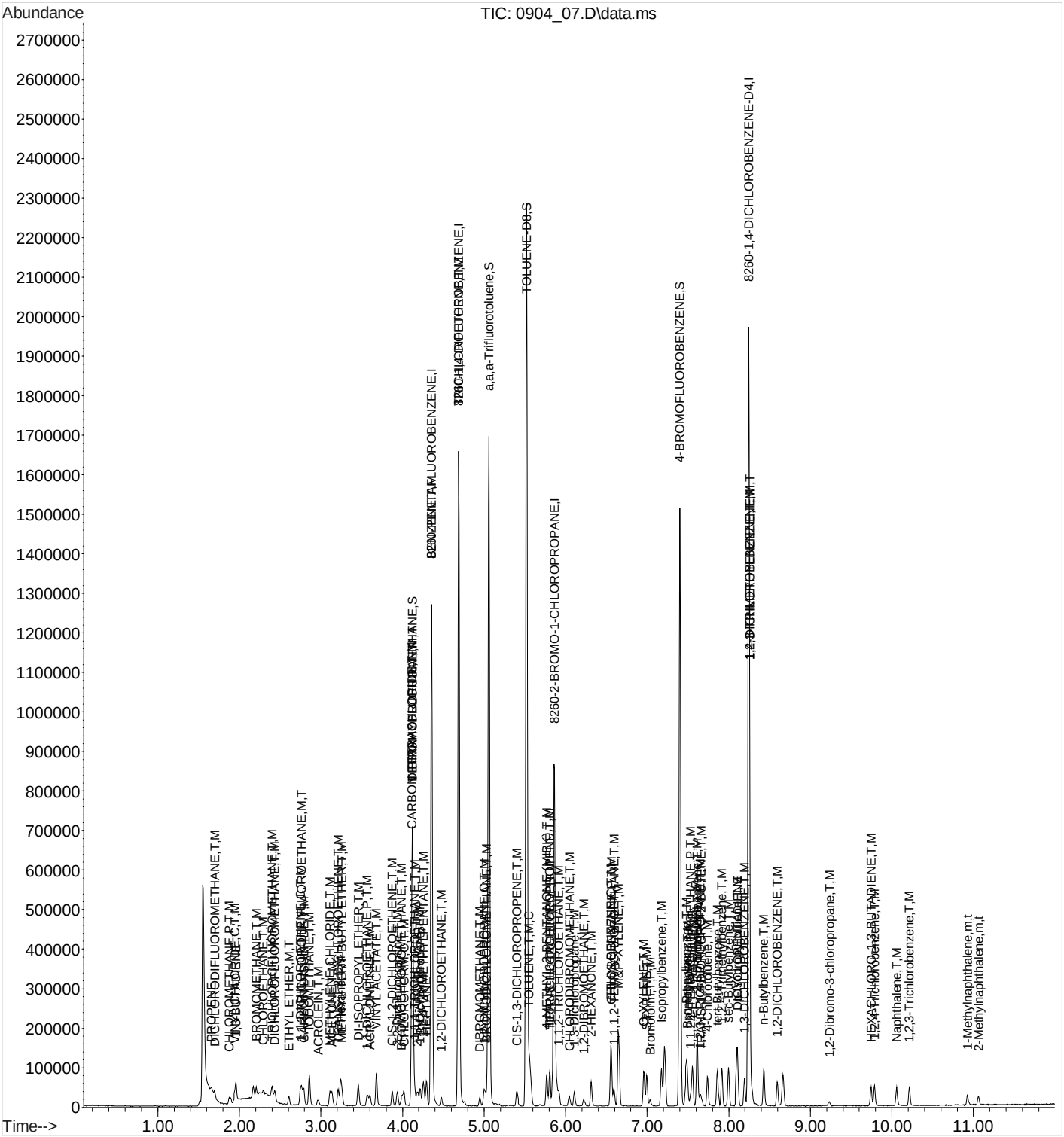
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 07.D
Acq On : 4 Sep 2015 7:09 pm
Operator : 591
Sample : STD VMS 2 ppb 15I04618
Misc : water 15G07402
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 07 13:56:54 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 08.D
Acq On : 4 Sep 2015 7:31 pm
Operator : 591
Sample : STD VMS 5.0 ppb 15I04618
Misc : water 15G07402
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 07 13:57:20 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.359	168	631681	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1043417	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.856	79	157576	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	444077	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.36
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.69
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.86
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.25
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.122	111	333944	43.4391978	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 108.60%			
46) a,a,a-Trifluorotoluene	5.059	146	589720	44.2280258	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 110.57%			
50) TOLUENE-D8	5.521	98	1269064	43.9440978	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 109.86%			
68) 4-BROMOFLUOROBENZENE	7.401	95	471223	43.8432906	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 109.61%			
Target Compounds						Qvalue
3) PROPENE	1.658	41	9302	5.8862919	ppb	98
4) DICHLORODIFLUOROMETHANE	1.701	85	28913	4.9104452	ppb	98
5) CHLOROMETHANE	1.877	50	35128	5.0354235	ppb	100
6) VINYL CHLORIDE	1.944	62	36746	4.9424537	ppb	99
7) 1,3-BUTADIENE	1.956	39	26626	5.0114944	ppb	98
8) BROMOMETHANE	2.206	94	19646	6.6837274	ppb	97
9) CHLOROETHANE	2.297	64	19299	5.2671262	ppb	96
10) TRICHLOROFLUOROMETHANE	2.400	101	41036	4.9260730	ppb	99
11) DICHLOROFLUOROMETHANE	2.431	67	53057	5.0322479	ppb	97
12) ETHYL ETHER	2.607	59	21558	4.9433490	ppb	98
13) ACROLEIN	2.966	56	22462	26.2468889	ppb	97
14) 1,1-DICHLOROETHENE	2.753	61	42124	4.9100768	ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	27384	4.8213094	ppb	97
16) ACETONE	3.136	43	68214	30.8887187	ppb	99
17) IODOMETHANE	2.856	142	176249	24.5820269	ppb	100
18) CARBON DISULFIDE	2.790	76	100558	5.1584451	ppb	100
19) METHYLENE CHLORIDE	3.112	84	31336	5.2573968	ppb	99
20) ACRYLONITRILE	3.599	53	41997	25.0042366	ppb	99
21) n-Hexane	3.240	56	29280	5.4005064	ppb	98
22) TRANS-1,2-DICHLOROETHENE	3.209	96	30100	4.9926227	ppb	99
23) METHYL TERT-BUTYL ETHER	3.258	73	75490	5.0539286	ppb	98
24) 1,1-DICHLOROETHANE	3.568	63	51738	5.0240683	ppb	100
25) VINYL ACETATE	3.678	43	229952	23.0386647	ppb	99
26) DI-ISOPROPYL ETHER	3.459	45	91587	5.0246432	ppb	100
27) 2,2-Dichloropropane	3.939	77	47865	5.2277373	ppb	97
28) CIS-1,2-DICHLOROETHENE	3.872	96	32022	5.0141998	ppb	97
29) 2-BUTANONE (MEK)	4.183	43	73275	28.0870626	ppb	97
30) BROMOCHLOROMETHANE	3.994	130	17820	4.9960100	ppb	92
31) TETRAHYDROFURAN	4.122	42	8612	6.1008111	ppb	95
32) CHLOROFORM	4.012	83	52027	5.2462772	ppb	98
34) 1,1,1-TRICHLOROETHANE	4.152	97	42001	5.0309534	ppb	99
35) CARBON TETRACHLORIDE	4.116	117	40203	4.8158034	ppb	97
36) 1,1-Dichloropropene	4.213	75	37848	4.9442527	ppb	98

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 08.D
Acq On : 4 Sep 2015 7:31 pm
Operator : 591
Sample : STD VMS 5.0 ppb 15I04618
Misc : water 15G07402
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 07 13:57:20 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.256	41	31270	5.1430298	ppb		96
38) HEPTANE	4.292	43	45987	4.6636512	ppb	#	93
39) BENZENE	4.359	78	116321	5.0515311	ppb		92
40) 1,2-DICHLOROETHANE	4.475	62	33836	4.8841747	ppb		97
42) TRICHLOROETHENE	4.688	130	29750	4.9798631	ppb		99
43) 1,2-DICHLOROPROPANE	5.004	62	20850	5.0508876	ppb		99
44) DIBROMOMETHANE	4.949	93	17646	5.2746924	ppb		93
45) BROMODICHLOROMETHANE	5.022	83	38562	5.1694769	ppb		97
48) CIS-1,3-DICHLOROPROPENE	5.406	75	46838	5.0491123	ppb		98
49) 4-METHYL-2-PENTANONE (...	5.771	43	115672	26.0736630	ppb		99
51) TOLUENE	5.558	91	124642	5.1378975	ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.807	75	40839	5.1565288	ppb		99
54) 1,1,2-TRICHLOROETHANE	5.917	97	23431	5.0256954	ppb		98
55) TETRACHLOROETHENE	5.807	164	23219	5.1635435	ppb		99
56) 1,3-Dichloropropane	6.105	76	40918	5.0999607	ppb		96
57) 2-HEXANONE	6.312	58	48557	27.3046422	ppb		99
58) CHLORODIBROMOMETHANE	6.044	129	26170	5.0114186	ppb		100
59) 1,2-DIBROMOETHANE	6.221	107	23797	4.9328200	ppb		95
60) CHLOROBENZENE	6.561	112	79933	5.1355978	ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.598	133	25605	5.1458562	ppb	#	98
62) ETHYLBENZENE	6.555	106	45121	5.1642709	ppb		99
63) M&P-XYLENE	6.653	106	108706	10.3021475	ppb		96
64) O-XYLENE	6.957	106	52451	5.1309631	ppb		97
65) STYRENE	6.993	104	86882	5.1107629	ppb		99
66) Bromoform	7.036	173	15902	5.0711227	ppb		98
67) Isopropylbenzene	7.176	105	140236	5.0811516	ppb		99
69) Bromobenzene	7.492	77	58368	5.0933326	ppb		98
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	30870	5.1446999	ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.650	110	7687	5.1050964	ppb		90
72) TRANS-1,4-DICHLORO-2-B...	7.663	53	7850	5.4730752	ppb		93
73) n-Propylbenzene	7.480	91	166367	5.0815589	ppb		100
74) 4-ETHYLTOLUENE	7.553	105	141101	5.1833729	ppb		99
75) 2-Chlorotoluene	7.614	126	30472	5.0514136	ppb		99
76) 4-Chlorotoluene	7.736	91	99091	5.0044214	ppb		99
77) 1,3,5-Trimethylbenzene	7.614	105	116335	5.1912998	ppb		97
78) tert-Butylbenzene	7.863	119	95858	5.0483597	ppb		98
79) 1,2,4-Trimethylbenzene	7.912	105	116067	5.2436761	ppb		98
80) sec-Butylbenzene	7.997	105	155245	5.1982342	ppb		100
81) 1,3-DICHLOROBENZENE	8.192	146	62126	5.1371903	ppb		99
82) p-Isopropyltoluene	8.094	119	126619	5.1730592	ppb		99
83) DICYCLOPENTADIENE	8.107	66	135564	5.1020538	ppb		100
85) 1,4-DICHLOROBENZENE	8.259	146	59855	5.0926128	ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.259	105	122571	5.4409999	ppb		97
87) 1,2-DICHLOROBENZENE	8.593	146	57700	5.0172644	ppb		100
88) n-Butylbenzene	8.429	91	121540	5.0108574	ppb		99
89) 1,2-Dibromo-3-chloropr...	9.232	157	5360	4.6378745	ppb		98
90) 1,2,4-Trichlorobenzene	9.786	180	37524	4.9359560	ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.743	225	20011	5.4093060	ppb		98
92) Naphthalene	10.059	128	81215	4.7882809	ppb		99
93) 1,2,3-Trichlorobenzene	10.212	180	32896	4.9171504	ppb		98
94) 1-Methylnaphthalene	10.929	142	30525	4.6528441	ppb		97
95) 2-Methylnaphthalene	11.063	142	26984	4.8041169	ppb		97

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 08.D
Acq On : 4 Sep 2015 7:31 pm
Operator : 591
Sample : STD VMS 5.0 ppb 15I04618
Misc : water 15G07402
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 07 13:57:20 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

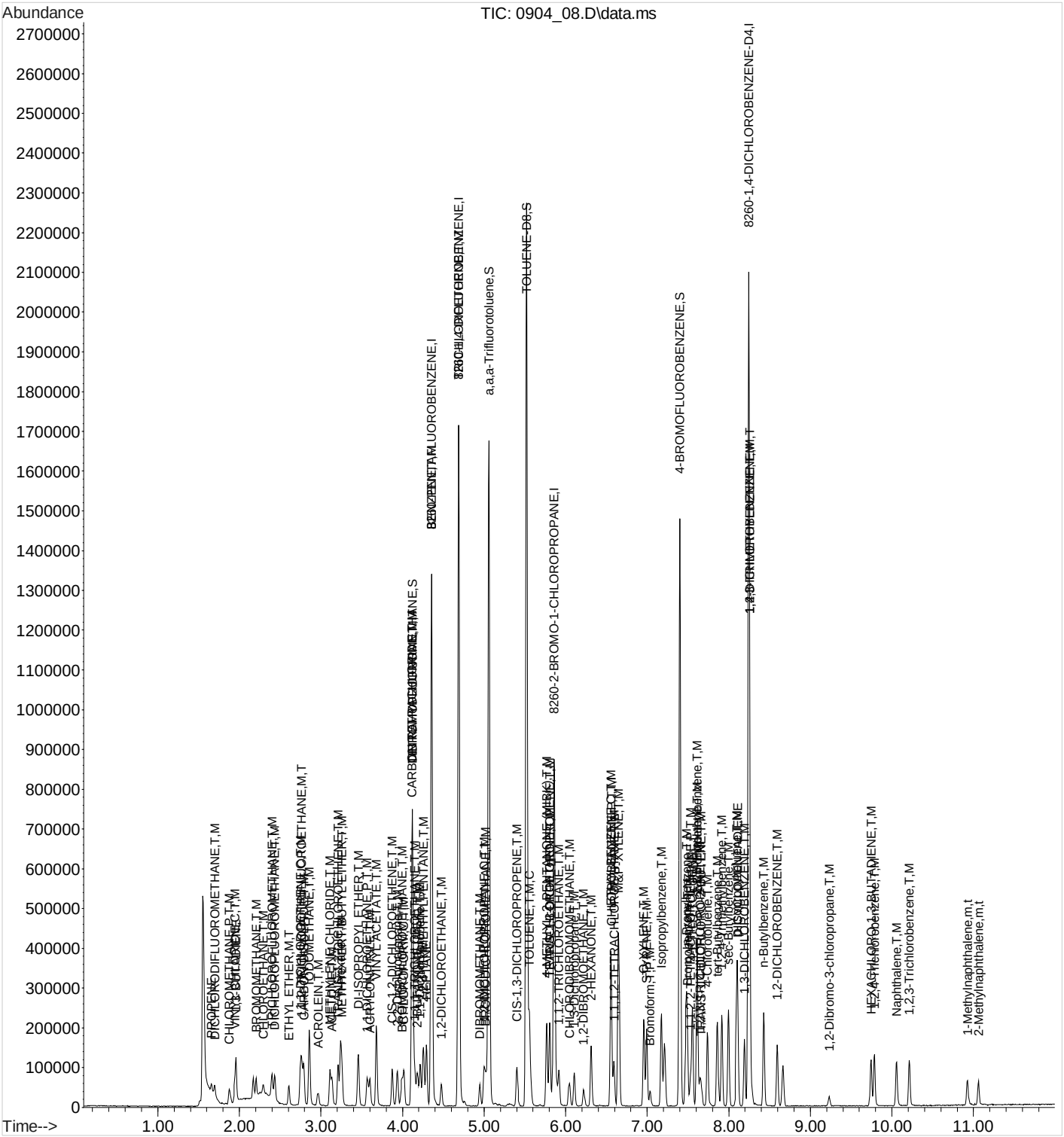
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 08.D
Acq On : 4 Sep 2015 7:31 pm
Operator : 591
Sample : STD VMS 5.0 ppb 15I04618
Misc : water 15G07402
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Sep 07 13:57:20 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 09.D
Acq On : 4 Sep 2015 7:54 pm
Operator : 591
Sample : STD VMS 10 ppb 15I04618
Misc : water 15G07402
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 07 13:57:41 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.359	168	619367	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1041982	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.856	79	157521	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	444304	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.36
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.69
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.86
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.25
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.122	111	337914	44.8295200	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 112.07%			
46) a,a,a-Trifluorotoluene	5.059	146	590016	44.3111660	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 110.78%			
50) TOLUENE-D8	5.521	98	1289369	44.7086899	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 111.77%			
68) 4-BROMOFLUOROBENZENE	7.401	95	482630	44.9202937	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 112.30%			
Target Compounds						Qvalue
3) PROPENE	1.658	41	16797	10.8404406	ppb	96
4) DICHLORODIFLUOROMETHANE	1.701	85	57090	9.8886615	ppb	98
5) CHLOROMETHANE	1.877	50	69334	10.1362797	ppb	100
6) VINYL CHLORIDE	1.944	62	71950	9.8699077	ppb	97
7) 1,3-BUTADIENE	1.956	39	52282	10.0360604	ppb	99
8) BROMOMETHANE	2.206	94	32470	11.2661785	ppb	97
9) CHLOROETHANE	2.291	64	38503	10.7172470	ppb	97
10) TRICHLOROFLUOROMETHANE	2.394	101	85185	10.4291449	ppb	99
11) DICHLOROFLUOROMETHANE	2.431	67	105585	10.2134229	ppb	98
12) ETHYL ETHER	2.607	59	42722	9.9911191	ppb	99
13) ACROLEIN	2.966	56	42606	50.7749992	ppb	100
14) 1,1-DICHLOROETHENE	2.747	61	84894	10.0921903	ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	55095	9.8930466	ppb	98
16) ACETONE	3.136	43	120127	55.4774844	ppb	100
17) IODOMETHANE	2.857	142	359017	51.0688164	ppb	100
18) CARBON DISULFIDE	2.790	76	196329	10.2715596	ppb	100
19) METHYLENE CHLORIDE	3.112	84	58984	10.0927884	ppb	99
20) ACRYLONITRILE	3.599	53	81248	49.3352987	ppb	100
21) n-Hexane	3.240	56	54903	10.3278338	ppb	97
22) TRANS-1,2-DICHLOROETHENE	3.209	96	59277	10.0276281	ppb	98
23) METHYL TERT-BUTYL ETHER	3.258	73	148268	10.1236439	ppb	99
24) 1,1-DICHLOROETHANE	3.568	63	101585	10.0606314	ppb	99
25) VINYL ACETATE	3.678	43	425428	43.4706300	ppb	99
26) DI-ISOPROPYL ETHER	3.459	45	181021	10.1286161	ppb	99
27) 2,2-Dichloropropane	3.939	77	91917	10.2386167	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.873	96	63921	10.2081371	ppb	99
29) 2-BUTANONE (MEK)	4.183	43	134980	52.7678829	ppb	100
30) BROMOCHLOROMETHANE	3.988	130	35179	10.0588618	ppb	95
31) TETRAHYDROFURAN	4.116	42	14869	10.7427401	ppb	97
32) CHLOROFORM	4.013	83	102097	10.4999005	ppb	99
34) 1,1,1-TRICHLOROETHANE	4.152	97	83924	10.2524247	ppb	99
35) CARBON TETRACHLORIDE	4.116	117	81535	9.9610269	ppb	99
36) 1,1-Dichloropropene	4.213	75	75886	10.1104187	ppb	99

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 09.D
Acq On : 4 Sep 2015 7:54 pm
Operator : 591
Sample : STD VMS 10 ppb 15I04618
Misc : water 15G07402
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 07 13:57:41 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.256	41	61083	10.2461631	ppb		98
38) HEPTANE	4.292	43	92154	9.5313612	ppb	#	92
39) BENZENE	4.359	78	231797	10.2665014	ppb		97
40) 1,2-DICHLOROETHANE	4.475	62	67732	9.9713927	ppb		98
42) TRICHLOROETHENE	4.688	130	61402	10.2922576	ppb		99
43) 1,2-DICHLOROPROPANE	5.004	62	40749	9.8849912	ppb		97
44) DIBROMOMETHANE	4.949	93	33691	10.0846878	ppb		99
45) BROMODICHLOROMETHANE	5.022	83	77341	10.3823227	ppb		98
47) 2-CHLOROETHYL VINYL ETHER	5.406	63	618	93.6134568	ppb	#	100
48) CIS-1,3-DICHLOROPROPENE	5.406	75	93963	10.1431127	ppb		99
49) 4-METHYL-2-PENTANONE (...	5.771	43	223779	50.5115649	ppb		100
51) TOLUENE	5.552	91	248404	10.2536221	ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.807	75	81037	10.2462134	ppb		100
54) 1,1,2-TRICHLOROETHANE	5.917	97	47327	10.1546727	ppb		99
55) TETRACHLOROETHENE	5.807	164	46724	10.3943169	ppb		99
56) 1,3-Dichloropropane	6.105	76	79743	9.9425233	ppb		98
57) 2-HEXANONE	6.312	58	93452	52.5684117	ppb		99
58) CHLORODIBROMOMETHANE	6.044	129	51821	9.9269163	ppb		100
59) 1,2-DIBROMOETHANE	6.221	107	48042	9.9619819	ppb		98
60) CHLOROBENZENE	6.562	112	157375	10.1146823	ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.592	133	50478	10.1481439	ppb	#	99
62) ETHYLBENZENE	6.555	106	89967	10.3006624	ppb		100
63) M&P-XYLENE	6.647	106	215238	20.4053857	ppb		99
64) O-XYLENE	6.957	106	105370	10.3113068	ppb		100
65) STYRENE	6.993	104	175557	10.3306034	ppb		99
66) Bromoform	7.036	173	31295	9.9834106	ppb		100
67) Isopropylbenzene	7.176	105	282499	10.2393211	ppb		100
69) Bromobenzene	7.492	77	115994	10.1254506	ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	59221	9.8730370	ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.650	110	15563	10.3393205	ppb		100
72) TRANS-1,4-DICHLORO-2-B...	7.663	53	14721	10.2671684	ppb		97
73) n-Propylbenzene	7.474	91	334651	10.2252401	ppb		100
74) 4-ETHYLTOLUENE	7.553	105	280400	10.3041454	ppb		100
75) 2-Chlorotoluene	7.614	126	60862	10.0927567	ppb		98
76) 4-Chlorotoluene	7.736	91	198985	10.0529058	ppb		99
77) 1,3,5-Trimethylbenzene	7.614	105	231365	10.3279705	ppb		99
78) tert-Butylbenzene	7.863	119	191278	10.0771694	ppb		97
79) 1,2,4-Trimethylbenzene	7.912	105	227599	10.2860601	ppb		100
80) sec-Butylbenzene	7.997	105	310329	10.3947057	ppb		100
81) 1,3-DICHLOROBENZENE	8.192	146	123043	10.1779611	ppb		100
82) p-Isopropyltoluene	8.101	119	253125	10.3451125	ppb		100
83) DICYCLOPENTADIENE	8.107	66	273588	10.3002868	ppb		100
85) 1,4-DICHLOROBENZENE	8.259	146	119278	10.1432850	ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.259	105	231322	10.2632754	ppb		98
87) 1,2-DICHLOROBENZENE	8.593	146	115771	10.0616455	ppb		99
88) n-Butylbenzene	8.429	91	248460	10.2382883	ppb		99
89) 1,2-Dibromo-3-chloropr...	9.238	157	11191	9.6783464	ppb		97
90) 1,2,4-Trichlorobenzene	9.786	180	76474	10.0543504	ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.743	225	39452	10.6590829	ppb		99
92) Naphthalene	10.060	128	166088	9.7872274	ppb		99
93) 1,2,3-Trichlorobenzene	10.212	180	67032	10.0145313	ppb		100
94) 1-Methylnaphthalene	10.930	142	62878	9.5794286	ppb		99
95) 2-Methylnaphthalene	11.063	142	55277	9.8362547	ppb		98

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 09.D
Acq On : 4 Sep 2015 7:54 pm
Operator : 591
Sample : STD VMS 10 ppb 15I04618
Misc : water 15G07402
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 07 13:57:41 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

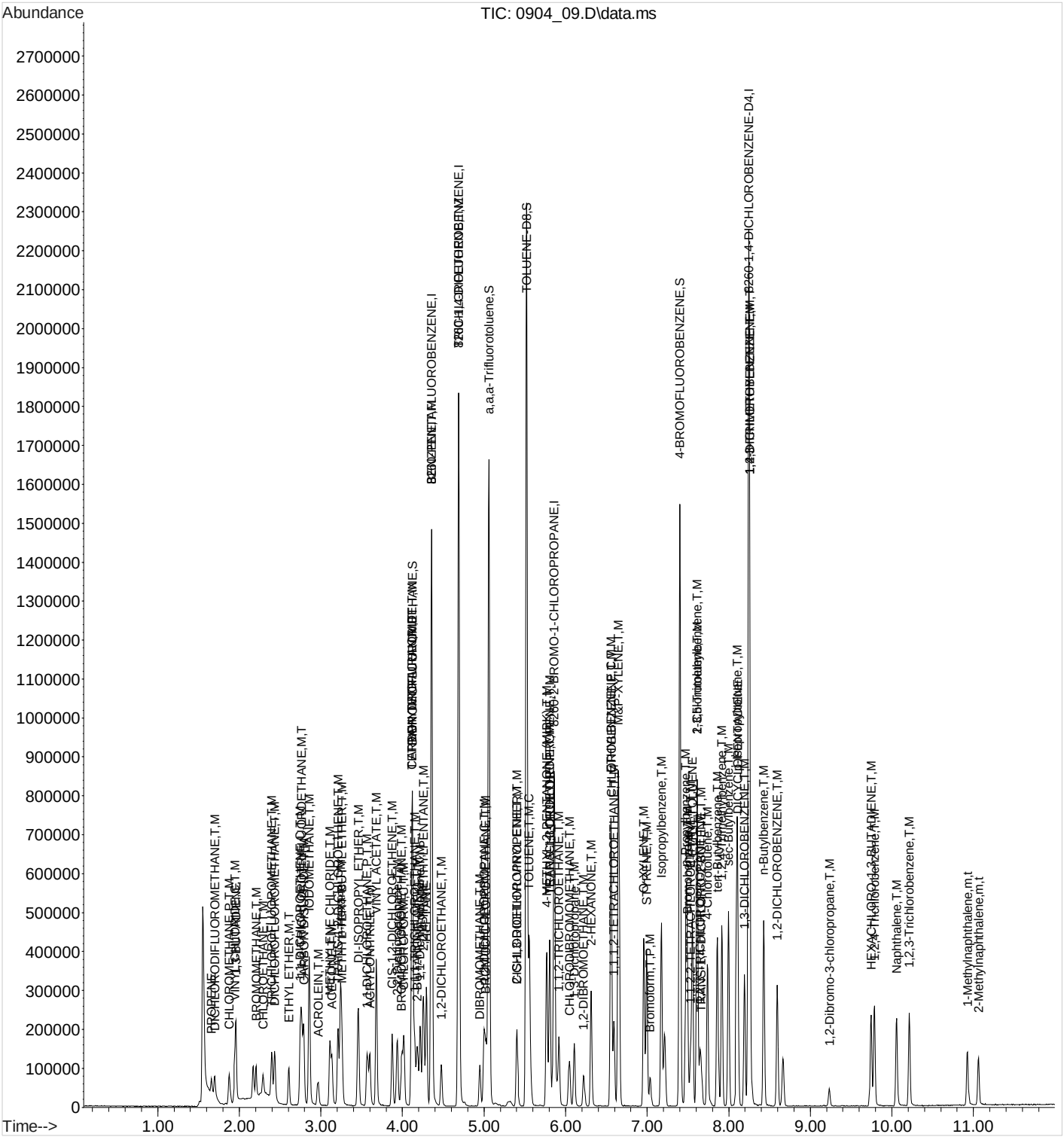
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 09.D
Acq On : 4 Sep 2015 7:54 pm
Operator : 591
Sample : STD VMS 10 ppb 15I04618
Misc : water 15G07402
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Sep 07 13:57:41 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 10.D
Acq On : 4 Sep 2015 8:16 pm
Operator : 591
Sample : MSTD VMS 25 ppb 15I04618
Misc : water 15G07402
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 07 13:58:03 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.359	168	602820	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1025312	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.862	79	154718	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	431496	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.36
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.69
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.86
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.25
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.122	111	330137	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 112.50%			
46) a,a,a-Trifluorotoluene	5.059	146	589602	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 112.50%			
50) TOLUENE-D8	5.521	98	1277008	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 112.50%			
68) 4-BROMOFLUOROBENZENE	7.401	95	474883	45.0000000	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 112.50%			
Target Compounds						Qvalue
3) PROPENE	1.658	41	37702	25.0000000	ppb	100
4) DICHLORODIFLUOROMETHANE	1.701	85	140476	25.0000000	ppb	100
5) CHLOROMETHANE	1.877	50	166436	25.0000000	ppb	100
6) VINYL CHLORIDE	1.944	62	177377	25.0000000	ppb	100
7) 1,3-BUTADIENE	1.956	39	126756	25.0000000	ppb	100
8) BROMOMETHANE	2.206	94	70127	25.0000000	ppb	100
9) CHLOROETHANE	2.291	64	87416	25.0000000	ppb	100
10) TRICHLOROFLUOROMETHANE	2.394	101	198744	25.0000000	ppb	100
11) DICHLOROFLUOROMETHANE	2.431	67	251542	25.0000000	ppb	100
12) ETHYL ETHER	2.601	59	104044	25.0000000	ppb	100
13) ACROLEIN	2.960	56	102087	125.0000000	ppb	100
14) 1,1-DICHLOROETHENE	2.753	61	204678	25.0000000	ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	135507	25.0000000	ppb	100
16) ACETONE	3.136	43	263435	125.0000000	ppb	100
17) IODOMETHANE	2.857	142	855281	125.0000000	ppb	100
18) CARBON DISULFIDE	2.790	76	465080	25.0000000	ppb	100
19) METHYLENE CHLORIDE	3.112	84	142201	25.0000000	ppb	100
20) ACRYLONITRILE	3.599	53	200357	125.0000000	ppb	100
21) n-Hexane	3.240	56	129350	25.0000000	ppb	100
22) TRANS-1,2-DICHLOROETHENE	3.209	96	143836	25.0000000	ppb	100
23) METHYL TERT-BUTYL ETHER	3.252	73	356361	25.0000000	ppb	100
24) 1,1-DICHLOROETHANE	3.568	63	245688	25.0000000	ppb	100
25) VINYL ACETATE	3.678	43	1190638	125.0000000	ppb	100
26) DI-ISOPROPYL ETHER	3.453	45	434869	25.0000000	ppb	100
27) 2,2-Dichloropropane	3.939	77	218441	25.0000000	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.873	96	152362	25.0000000	ppb	100
29) 2-BUTANONE (MEK)	4.183	43	311207	125.0000000	ppb	100
30) BROMOCHLOROMETHANE	3.988	130	85097	25.0000000	ppb	100
31) TETRAHYDROFURAN	4.116	42	33678	25.0000000	ppb	100
32) CHLOROFORM	4.012	83	236596	25.0000000	ppb	100
34) 1,1,1-TRICHLOROETHANE	4.152	97	199177	25.0000000	ppb	100
35) CARBON TETRACHLORIDE	4.110	117	199168	25.0000000	ppb	100
36) 1,1-Dichloropropene	4.213	75	182630	25.0000000	ppb	100

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 10.D
Acq On : 4 Sep 2015 8:16 pm
Operator : 591
Sample : MSTD VMS 25 ppb 15I04618
Misc : water 15G07402
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 07 13:58:03 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.256	41	145057	25.0000000	ppb		100
38) HEPTANE	4.292	43	235255	25.0000000	ppb	#	100
39) BENZENE	4.359	78	549370	25.0000000	ppb		100
40) 1,2-DICHLOROETHANE	4.475	62	165279	25.0000000	ppb		100
42) TRICHLOROETHENE	4.688	130	146760	25.0000000	ppb		100
43) 1,2-DICHLOROPROPANE	5.004	62	101409	25.0000000	ppb		100
44) DIBROMOMETHANE	4.949	93	82184	25.0000000	ppb		100
45) BROMODICHLOROMETHANE	5.022	83	183253	25.0000000	ppb		100
47) 2-CHLOROETHYL VINYL ETHER	5.333	63	812	125.0000000	ppb	#	100
48) CIS-1,3-DICHLOROPROPENE	5.406	75	227888	25.0000000	ppb		100
49) 4-METHYL-2-PENTANONE (...	5.771	43	544922	125.0000000	ppb		100
51) TOLUENE	5.552	91	595960	25.0000000	ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.807	75	194561	25.0000000	ppb		100
54) 1,1,2-TRICHLOROETHANE	5.917	97	114442	25.0000000	ppb		100
55) TETRACHLOROETHENE	5.807	164	110379	25.0000000	ppb		100
56) 1,3-Dichloropropane	6.105	76	196942	25.0000000	ppb		100
57) 2-HEXANONE	6.312	58	218261	125.0000000	ppb		100
58) CHLORODIBROMOMETHANE	6.044	129	128184	25.0000000	ppb		100
59) 1,2-DIBROMOETHANE	6.221	107	118418	25.0000000	ppb		100
60) CHLOROBENZENE	6.561	112	382055	25.0000000	ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.592	133	122140	25.0000000	ppb		100
62) ETHYLBENZENE	6.555	106	214467	25.0000000	ppb		100
63) M&P-XYLENE	6.653	106	518020	50.0000000	ppb		100
64) O-XYLENE	6.957	106	250926	25.0000000	ppb		100
65) STYRENE	6.993	104	417287	25.0000000	ppb		100
66) Bromoform	7.042	173	76973	25.0000000	ppb		100
67) Isopropylbenzene	7.176	105	677467	25.0000000	ppb		100
69) Bromobenzene	7.492	77	281296	25.0000000	ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	147288	25.0000000	ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.650	110	36961	25.0000000	ppb		100
72) TRANS-1,4-DICHLORO-2-B...	7.663	53	35207	25.0000000	ppb		100
73) n-Propylbenzene	7.480	91	803639	25.0000000	ppb		100
74) 4-ETHYLTOLUENE	7.553	105	668203	25.0000000	ppb		100
75) 2-Chlorotoluene	7.614	126	148074	25.0000000	ppb		100
76) 4-Chlorotoluene	7.736	91	486039	25.0000000	ppb		100
77) 1,3,5-Trimethylbenzene	7.614	105	550079	25.0000000	ppb		100
78) tert-Butylbenzene	7.863	119	466089	25.0000000	ppb		100
79) 1,2,4-Trimethylbenzene	7.912	105	543330	25.0000000	ppb		100
80) sec-Butylbenzene	7.997	105	733082	25.0000000	ppb		100
81) 1,3-DICHLOROBENZENE	8.192	146	296851	25.0000000	ppb		100
82) p-Isopropyltoluene	8.101	119	600817	25.0000000	ppb		100
83) DICYCLOPENTADIENE	8.107	66	652214	25.0000000	ppb		100
85) 1,4-DICHLOROBENZENE	8.259	146	285508	25.0000000	ppb		100
86) 1,2,3-TRIMETHYLBENZENE	8.259	105	547227	25.0000000	ppb		100
87) 1,2-DICHLOROBENZENE	8.593	146	279362	25.0000000	ppb		100
88) n-Butylbenzene	8.429	91	589204	25.0000000	ppb		100
89) 1,2-Dibromo-3-chloropr...	9.232	157	28074	25.0000000	ppb		100
90) 1,2,4-Trichlorobenzene	9.786	180	184670	25.0000000	ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.743	225	89864	25.0000000	ppb		100
92) Naphthalene	10.060	128	412017	25.0000000	ppb		100
93) 1,2,3-Trichlorobenzene	10.212	180	162513	25.0000000	ppb		100
94) 1-Methylnaphthalene	10.923	142	159366	25.0000000	ppb		100
95) 2-Methylnaphthalene	11.063	142	136443	25.0000000	ppb		100

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 10.D
Acq On : 4 Sep 2015 8:16 pm
Operator : 591
Sample : MSTD VMS 25 ppb 15I04618
Misc : water 15G07402
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 07 13:58:03 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

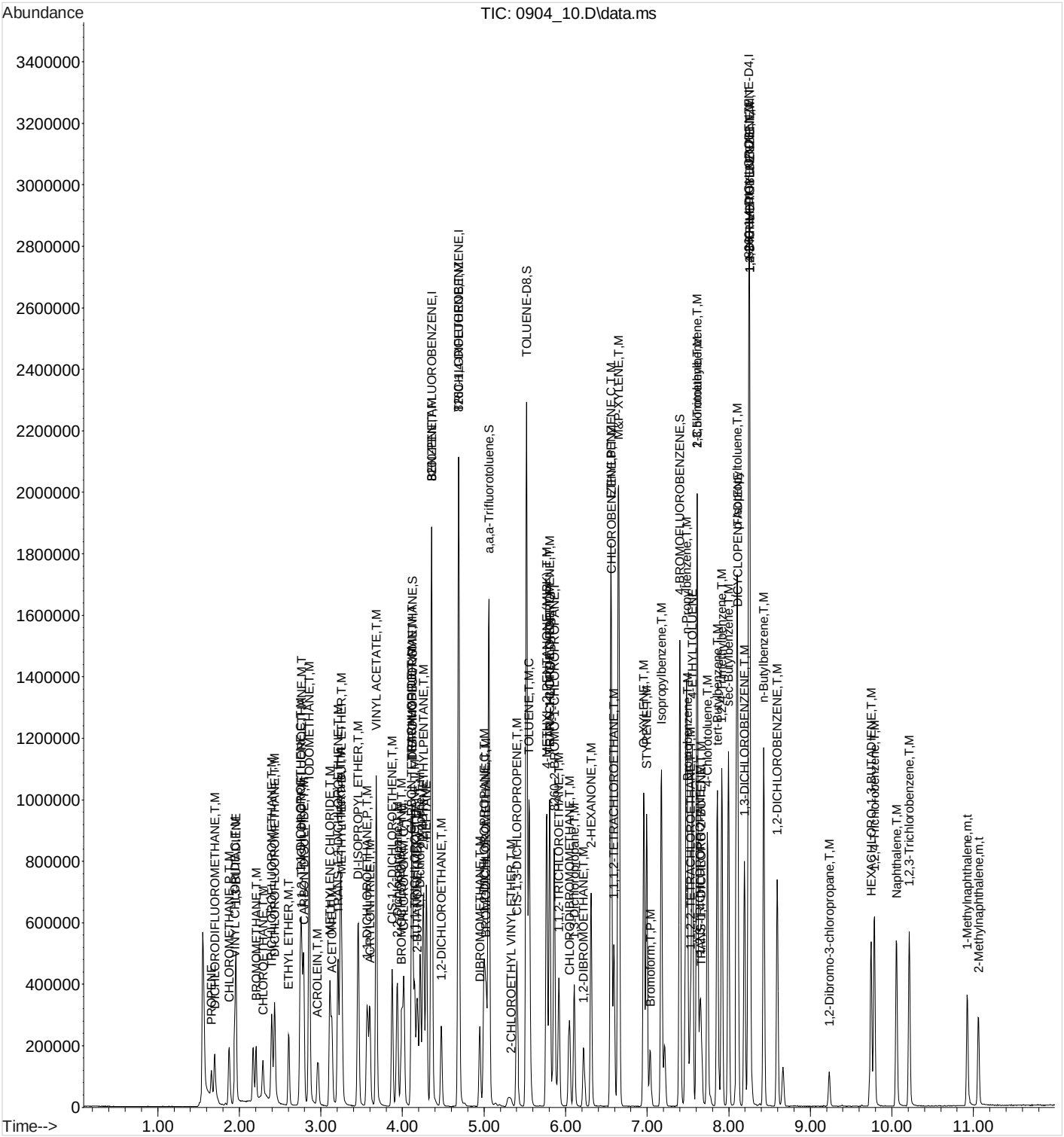
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 10.D
Acq On : 4 Sep 2015 8:16 pm
Operator : 591
Sample : MSTD VMS 25 ppb 15I04618
Misc : water 15G07402
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Sep 07 13:58:03 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 11.D
Acq On : 4 Sep 2015 8:39 pm
Operator : 591
Sample : STD VMS 40 ppb 15I04618
Misc : water 15G07402
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 07 13:58:24 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.359	168	607167	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1033932	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.862	79	156287	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.246	152	434380	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.36
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.69
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.86
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.25
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.122	111	332254	44.9643195	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 112.41%			
46) a,a,a-Trifluorotoluene	5.059	146	603018	45.6402385	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 114.10%			
50) TOLUENE-D8	5.521	98	1305043	45.6045086	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 114.01%			
68) 4-BROMOFLUOROBENZENE	7.401	95	493328	46.2785395	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 115.70%			
Target Compounds						Qvalue
3) PROPENE	1.658	41	58380	38.4343202	ppb	98
4) DICHLORODIFLUOROMETHANE	1.701	85	222788	39.3649011	ppb	99
5) CHLOROMETHANE	1.877	50	263189	39.2500276	ppb	99
6) VINYL CHLORIDE	1.944	62	283550	39.6781896	ppb	99
7) 1,3-BUTADIENE	1.956	39	197214	38.6179057	ppb	98
8) BROMOMETHANE	2.205	94	107591	38.0811615	ppb	97
9) CHLOROETHANE	2.285	64	129393	36.7400171	ppb	98
10) TRICHLOROFLUOROMETHANE	2.394	101	320936	40.0814949	ppb	98
11) DICHLOROFLUOROMETHANE	2.431	67	401385	39.6068343	ppb	100
12) ETHYL ETHER	2.607	59	163525	39.0109584	ppb	98
13) ACROLEIN	2.960	56	153974	187.1830231	ppb	97
14) 1,1-DICHLOROETHENE	2.753	61	321262	38.9589906	ppb	100
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	210708	38.5956888	ppb	99
16) ACETONE	3.136	43	405510	191.0370486	ppb	100
17) IODOMETHANE	2.856	142	1326740	192.5158561	ppb	100
18) CARBON DISULFIDE	2.783	76	733708	39.1575123	ppb	99
19) METHYLENE CHLORIDE	3.112	84	222793	38.8882494	ppb	99
20) ACRYLONITRILE	3.599	53	307252	190.3179297	ppb	98
21) n-Hexane	3.240	56	199454	38.2732921	ppb	100
22) TRANS-1,2-DICHLOROETHENE	3.209	96	225859	38.9752856	ppb	99
23) METHYL TERT-BUTYL ETHER	3.252	73	544303	37.9114208	ppb	98
24) 1,1-DICHLOROETHANE	3.568	63	386039	39.0001915	ppb	99
25) VINYL ACETATE	3.678	43	1770067	184.5013179	ppb	100
26) DI-ISOPROPYL ETHER	3.459	45	682434	38.9512777	ppb	100
27) 2,2-Dichloropropane	3.939	77	338187	38.4275110	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.872	96	241681	39.3718069	ppb	99
29) 2-BUTANONE (MEK)	4.183	43	476028	189.8334095	ppb	100
30) BROMOCHLOROMETHANE	3.994	130	132999	38.7930233	ppb	98
31) TETRAHYDROFURAN	4.116	42	50342	37.1025428	ppb	99
32) CHLOROFORM	4.012	83	372150	39.0418265	ppb	100
34) 1,1,1-TRICHLOROETHANE	4.152	97	315115	39.2689593	ppb	99
35) CARBON TETRACHLORIDE	4.110	117	309555	38.5778272	ppb	99
36) 1,1-Dichloropropene	4.213	75	285560	38.8100995	ppb	100

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 11.D
Acq On : 4 Sep 2015 8:39 pm
Operator : 591
Sample : STD VMS 40 ppb 15I04618
Misc : water 15G07402
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 07 13:58:24 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.256	41	222751	38.1153992	ppb		97
38) HEPTANE	4.292	43	356156	37.5768962	ppb	#	96
39) BENZENE	4.359	78	871254	39.3640112	ppb		99
40) 1,2-DICHLOROETHANE	4.475	62	256216	38.4776086	ppb		100
42) TRICHLOROETHENE	4.688	130	229038	38.6904616	ppb		99
43) 1,2-DICHLOROPROPANE	5.004	62	158607	38.7748318	ppb		99
44) DIBROMOMETHANE	4.949	93	128627	38.8015378	ppb		100
45) BROMODICHLOROMETHANE	5.022	83	292447	39.5639960	ppb		100
47) 2-CHLOROETHYL VINYL ETHER	5.308	63	1371	209.2933849	ppb	#	100
48) CIS-1,3-DICHLOROPROPENE	5.405	75	362243	39.4078387	ppb		100
49) 4-METHYL-2-PENTANONE (...	5.770	43	824306	187.5116242	ppb		100
51) TOLUENE	5.551	91	918839	38.2231418	ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.807	75	299236	38.1295889	ppb		98
54) 1,1,2-TRICHLOROETHANE	5.916	97	178328	38.5648900	ppb		99
55) TETRACHLOROETHENE	5.807	164	172587	38.6972070	ppb		99
56) 1,3-Dichloropropane	6.105	76	309873	38.9406673	ppb		99
57) 2-HEXANONE	6.312	58	342525	194.1977238	ppb		98
58) CHLORODIBROMOMETHANE	6.044	129	203462	39.2832568	ppb		100
59) 1,2-DIBROMOETHANE	6.221	107	187956	39.2822603	ppb		99
60) CHLOROBENZENE	6.561	112	596420	38.6353016	ppb		100
61) 1,1,1,2-TETRACHLOROETHANE	6.592	133	191186	38.7396924	ppb	#	100
62) ETHYLBENZENE	6.555	106	338251	39.0334204	ppb		99
63) M&P-XYLENE	6.653	106	810533	77.4483494	ppb		99
64) O-XYLENE	6.957	106	404445	39.8907135	ppb		99
65) STYRENE	6.993	104	657819	39.0148153	ppb		99
66) Bromoform	7.042	173	122291	39.3200516	ppb		99
67) Isopropylbenzene	7.176	105	1057996	38.6503897	ppb		100
69) Bromobenzene	7.492	77	436031	38.3629333	ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	227454	38.2194304	ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.650	110	58062	38.8782113	ppb		98
72) TRANS-1,4-DICHLORO-2-B...	7.662	53	56307	39.5814195	ppb		97
73) n-Propylbenzene	7.480	91	1273167	39.2086930	ppb		100
74) 4-ETHYLTOLUENE	7.553	105	1049540	38.8730458	ppb		99
75) 2-Chlorotoluene	7.614	126	231141	38.6327991	ppb		99
76) 4-Chlorotoluene	7.735	91	759180	38.6573106	ppb		100
77) 1,3,5-Trimethylbenzene	7.614	105	862839	38.8206406	ppb		99
78) tert-Butylbenzene	7.863	119	724848	38.4889522	ppb		99
79) 1,2,4-Trimethylbenzene	7.912	105	843802	38.4357059	ppb		100
80) sec-Butylbenzene	7.997	105	1147232	38.7308201	ppb		100
81) 1,3-DICHLOROBENZENE	8.192	146	470497	39.2262091	ppb		99
82) p-Isopropyltoluene	8.094	119	926230	38.1535214	ppb		99
83) DICYCLOPENTADIENE	8.107	66	1002247	38.0314291	ppb		100
85) 1,4-DICHLOROBENZENE	8.259	146	445961	38.7905164	ppb	#	61
86) 1,2,3-TRIMETHYLBENZENE	8.259	105	841966	38.2097326	ppb		99
87) 1,2-DICHLOROBENZENE	8.593	146	438500	38.9806636	ppb		99
88) n-Butylbenzene	8.429	91	917572	38.6742079	ppb		100
89) 1,2-Dibromo-3-chloropr...	9.232	157	44996	39.8030704	ppb		97
90) 1,2,4-Trichlorobenzene	9.786	180	289992	38.9974877	ppb		100
91) HEXACHLORO-1,3-BUTADIENE	9.743	225	146695	40.5393263	ppb		100
92) Naphthalene	10.059	128	651048	39.2414309	ppb		99
93) 1,2,3-Trichlorobenzene	10.211	180	257108	39.2893139	ppb		100
94) 1-Methylnaphthalene	10.929	142	259237	40.3969221	ppb		100
95) 2-Methylnaphthalene	11.063	142	211242	38.4481965	ppb		98

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 11.D
Acq On : 4 Sep 2015 8:39 pm
Operator : 591
Sample : STD VMS 40 ppb 15I04618
Misc : water 15G07402
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 07 13:58:24 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

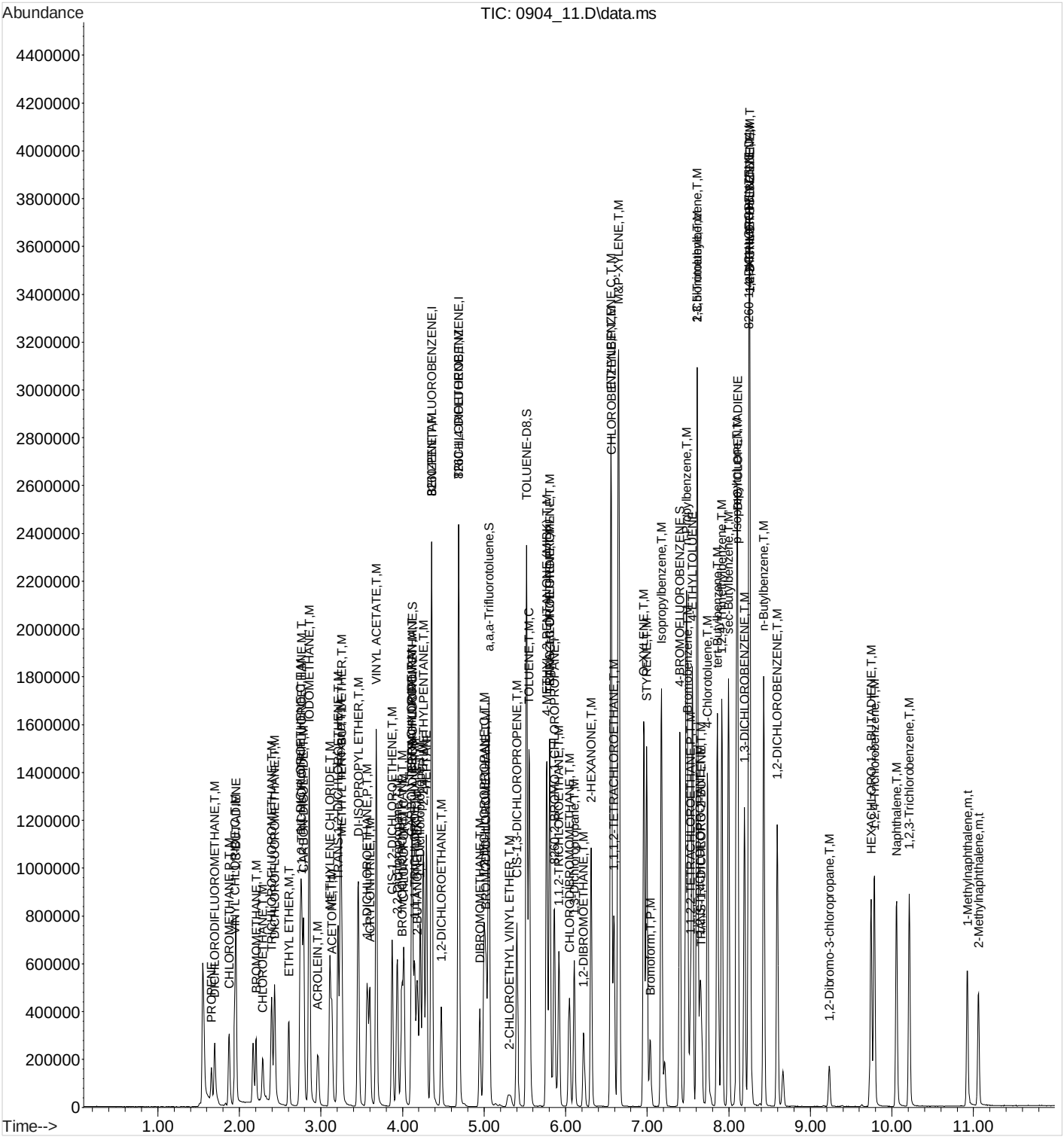
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 11.D
Acq On : 4 Sep 2015 8:39 pm
Operator : 591
Sample : STD VMS 40 ppb 15I04618
Misc : water 15G07402
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Sep 07 13:58:24 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 12.D
Acq On : 4 Sep 2015 9:01 pm
Operator : 591
Sample : STD VMS 75 ppb 15I04618
Misc : water 15G07402
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 13:58:45 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.359	168	591911	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1020068	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.862	79	155266	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.246	152	429360	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.36
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.69
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.86
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.25
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.122	111	333418	46.2848219	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 115.71%			
46) a,a,a-Trifluorotoluene	5.059	146	597110	45.8073140	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 114.52%			
50) TOLUENE-D8	5.521	98	1317444	46.6635716	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 116.66%#			
68) 4-BROMOFLUOROBENZENE	7.401	95	495426	46.7809636	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 116.95%			
Target Compounds						Qvalue
3) PROPENE	1.658	41	106714	72.0656421	ppb	98
4) DICHLORODIFLUOROMETHANE	1.701	85	408119	73.9700533	ppb	100
5) CHLOROMETHANE	1.871	50	476838	72.9448841	ppb	99
6) VINYL CHLORIDE	1.944	62	513843	73.7571946	ppb	99
7) 1,3-BUTADIENE	1.956	39	350635	70.4300488	ppb	98
8) BROMOMETHANE	2.199	94	194645	70.6690482	ppb	97
9) CHLOROETHANE	2.285	64	205025	59.7155093	ppb	97
10) TRICHLOROFLUOROMETHANE	2.388	101	563224	72.1536618	ppb	99
11) DICHLOROFLUOROMETHANE	2.431	67	735532	74.4495904	ppb	100
12) ETHYL ETHER	2.601	59	296875	72.6486983	ppb	100
13) ACROLEIN	2.960	56	290249	361.9441364	ppb	99
14) 1,1-DICHLOROETHENE	2.747	61	578347	71.9430048	ppb	99
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	378911	71.1945474	ppb	99
16) ACETONE	3.136	43	746613	360.7973403	ppb	99
17) IODOMETHANE	2.856	142	2369204	352.6426916	ppb	100
18) CARBON DISULFIDE	2.783	76	1313380	71.9008435	ppb	99
19) METHYLENE CHLORIDE	3.112	84	406236	72.7355969	ppb	100
20) ACRYLONITRILE	3.593	53	573140	364.1643715	ppb	99
21) n-Hexane	3.234	56	361719	71.1993680	ppb	98
22) TRANS-1,2-DICHLOROETHENE	3.209	96	409476	72.4823233	ppb	99
23) METHYL TERT-BUTYL ETHER	3.252	73	991085	70.8095745	ppb	99
24) 1,1-DICHLOROETHANE	3.568	63	705464	73.1075385	ppb	99
25) VINYL ACETATE	3.678	43	3136427	335.3487558	ppb	100
26) DI-ISOPROPYL ETHER	3.453	45	1234202	72.2601812	ppb	100
27) 2,2-Dichloropropane	3.933	77	616948	71.9093983	ppb	99
28) CIS-1,2-DICHLOROETHENE	3.872	96	434269	72.5693803	ppb	100
29) 2-BUTANONE (MEK)	4.183	43	906457	370.7994701	ppb	100
30) BROMOCHLOROMETHANE	3.988	130	239390	71.6247312	ppb	99
31) TETRAHYDROFURAN	4.116	42	95157	71.9392158	ppb	98
32) CHLOROFORM	4.012	83	674312	72.5645892	ppb	99
34) 1,1,1-TRICHLOROETHANE	4.152	97	570305	72.9019664	ppb	99
35) CARBON TETRACHLORIDE	4.110	117	567754	72.5791522	ppb	99
36) 1,1-Dichloropropene	4.213	75	521349	72.6821350	ppb	100

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 12.D
Acq On : 4 Sep 2015 9:01 pm
Operator : 591
Sample : STD VMS 75 ppb 15I04618
Misc : water 15G07402
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 13:58:45 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.256	41	408417	71.6863338	ppb		100
38) HEPTANE	4.292	43	663350	71.7918461	ppb	#	97
39) BENZENE	4.359	78	1558753	72.2409774	ppb		98
40) 1,2-DICHLOROETHANE	4.475	62	478753	73.7505192	ppb		100
42) TRICHLOROETHENE	4.688	130	421863	72.2321695	ppb		99
43) 1,2-DICHLOROPROPANE	5.004	62	292154	72.3939481	ppb		99
44) DIBROMOMETHANE	4.949	93	238593	72.9520244	ppb		99
45) BROMODICHLOROMETHANE	5.022	83	530986	72.8113197	ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.326	63	2484	384.3549617	ppb	#	100
48) CIS-1,3-DICHLOROPROPENE	5.405	75	663937	73.2103259	ppb		100
49) 4-METHYL-2-PENTANONE (...	5.770	43	1542324	355.6134711	ppb		99
51) TOLUENE	5.551	91	1705031	71.8922529	ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.807	75	556051	71.8167523	ppb		99
54) 1,1,2-TRICHLOROETHANE	5.916	97	329659	71.7602569	ppb		99
55) TETRACHLOROETHENE	5.807	164	312181	70.4570570	ppb		99
56) 1,3-Dichloropropane	6.105	76	563325	71.2566118	ppb		99
57) 2-HEXANONE	6.312	58	645845	368.5756601	ppb		98
58) CHLORODIBROMOMETHANE	6.044	129	380630	73.9730766	ppb		100
59) 1,2-DIBROMOETHANE	6.221	107	350075	73.6457793	ppb		99
60) CHLOROBENZENE	6.561	112	1084043	70.6846494	ppb		99
61) 1,1,1,2-TETRACHLOROETHANE	6.592	133	350967	71.5834877	ppb		100
62) ETHYLBENZENE	6.555	106	613226	71.2302666	ppb		98
63) M&P-XYLENE	6.653	106	1465330	140.9364720	ppb		98
64) O-XYLENE	6.957	106	741397	73.6053950	ppb		98
65) STYRENE	6.993	104	1198763	71.5653767	ppb		99
66) Bromoform	7.042	173	228953	74.0990111	ppb		100
67) Isopropylbenzene	7.176	105	1896620	69.7423645	ppb		99
69) Bromobenzene	7.492	77	798430	70.7095017	ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	422590	71.4753577	ppb		99
71) 1,2,3-TRICHLOROPROPANE	7.650	110	107764	72.6330827	ppb		98
72) TRANS-1,4-DICHLORO-2-B...	7.662	53	106898	75.6388725	ppb		98
73) n-Propylbenzene	7.480	91	2278917	70.6434646	ppb		100
74) 4-ETHYLTOLUENE	7.553	105	1888973	70.4241828	ppb		99
75) 2-Chlorotoluene	7.620	126	427537	71.9282317	ppb		95
76) 4-Chlorotoluene	7.735	91	1375146	70.4826425	ppb		99
77) 1,3,5-Trimethylbenzene	7.614	105	1531092	69.3395004	ppb		100
78) tert-Butylbenzene	7.863	119	1296925	69.3187137	ppb		98
79) 1,2,4-Trimethylbenzene	7.912	105	1521635	69.7671995	ppb		100
80) sec-Butylbenzene	7.997	105	2047413	69.5756684	ppb		99
81) 1,3-DICHLOROBENZENE	8.192	146	850914	71.4087843	ppb		100
82) p-Isopropyltoluene	8.100	119	1669868	69.2379844	ppb		99
83) DICYCLOPENTADIENE	8.107	66	1816857	69.3961083	ppb		99
85) 1,4-DICHLOROBENZENE	8.259	146	811778	71.4355176	ppb	#	29
86) 1,2,3-TRIMETHYLBENZENE	8.259	105	1513702	69.4973217	ppb		98
87) 1,2-DICHLOROBENZENE	8.593	146	798218	71.7875921	ppb		100
88) n-Butylbenzene	8.429	91	1632993	69.6327965	ppb		99
89) 1,2-Dibromo-3-chloropr...	9.232	157	87144	77.9881100	ppb		96
90) 1,2,4-Trichlorobenzene	9.786	180	511499	69.5894879	ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.743	225	261996	73.2494074	ppb		98
92) Naphthalene	10.059	128	1201373	73.2584848	ppb		100
93) 1,2,3-Trichlorobenzene	10.211	180	453484	70.1082395	ppb		100
94) 1-Methylnaphthalene	10.923	142	484966	76.4558675	ppb		99
95) 2-Methylnaphthalene	11.063	142	399435	73.5512499	ppb		98

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 12.D
Acq On : 4 Sep 2015 9:01 pm
Operator : 591
Sample : STD VMS 75 ppb 15I04618
Misc : water 15G07402
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 13:58:45 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

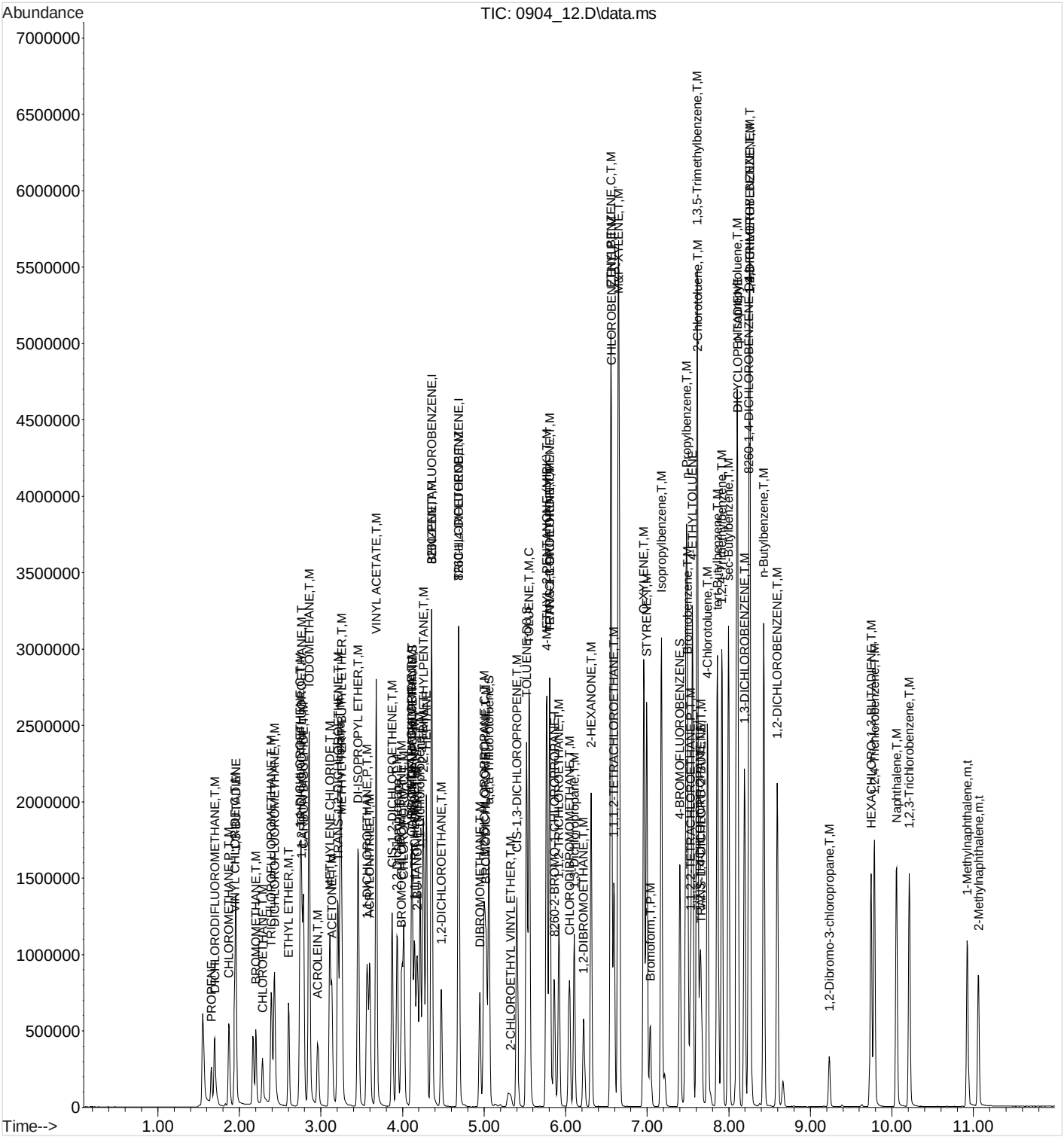
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 12.D
Acq On : 4 Sep 2015 9:01 pm
Operator : 591
Sample : STD VMS 75 ppb 15I04618
Misc : water 15G07402
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Sep 07 13:58:45 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 13.D
Acq On : 4 Sep 2015 9:24 pm
Operator : 591
Sample : STD VMS 100 ppb 15I04618
Misc : water 15G07402
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 07 13:59:08 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 8260-PENTAFLUOROBENZENE	4.359	168	593514	40.0000000	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1018957	40.0000000	ppb	0.00
53) 8260-2-BROMO-1-CHLOROP...	5.862	79	153457	40.0000000	ppb	0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	430585	40.0000000	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb	-4.36
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb	-4.69
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb	-5.86
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb	-8.25
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.122	111	337299	46.6971152	ppb	0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 116.74%			
46) a,a,a-Trifluorotoluene	5.059	146	603338	46.3355613	ppb	0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 115.84%			
50) TOLUENE-D8	5.521	98	1334773	47.3289088	ppb	0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 118.32%#			
68) 4-BROMOFLUOROBENZENE	7.401	95	509558	48.6825876	ppb	0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 121.71%#			
Target Compounds						Qvalue
3) PROPENE	1.658	41	145601	98.0610778	ppb	99
4) DICHLORODIFLUOROMETHANE	1.701	85	550730	99.5481734	ppb	99
5) CHLOROMETHANE	1.871	50	653424	99.6883725	ppb	99
6) VINYL CHLORIDE	1.944	62	692823	99.1794476	ppb	99
7) 1,3-BUTADIENE	1.956	39	472391	94.6302054	ppb	97
8) BROMOMETHANE	2.200	94	270750	98.0347168	ppb	97
9) CHLOROETHANE	2.285	64	245819	71.4037813	ppb	96
10) TRICHLOROFLUOROMETHANE	2.388	101	737474	94.2213627	ppb	98
11) DICHLOROFLUOROMETHANE	2.431	67	981560	99.0838871	ppb	99
12) ETHYL ETHER	2.601	59	403093	98.3750372	ppb	100
13) ACROLEIN	2.960	56	383736	477.2311690	ppb	99
14) 1,1-DICHLOROETHENE	2.747	61	779179	96.6635561	ppb	98
15) 1,1,2-TRICHLOROTRIFLUO...	2.765	101	510536	95.6668192	ppb	99
16) ACETONE	3.136	43	981619	473.0817329	ppb	99
17) IODOMETHANE	2.857	142	3138165	465.8366437	ppb	100
18) CARBON DISULFIDE	2.784	76	1777672	97.0556141	ppb	99
19) METHYLENE CHLORIDE	3.112	84	544178	97.1706311	ppb	99
20) ACRYLONITRILE	3.599	53	765770	485.2443932	ppb	99
21) n-Hexane	3.240	56	488481	95.8910196	ppb	99
22) TRANS-1,2-DICHLOROETHENE	3.209	96	555792	98.1163509	ppb	99
23) METHYL TERT-BUTYL ETHER	3.252	73	1339609	95.4519008	ppb	99
24) 1,1-DICHLOROETHANE	3.568	63	955378	98.7388319	ppb	99
25) VINYL ACETATE	3.678	43	3972428	423.5873610	ppb	100
26) DI-ISOPROPYL ETHER	3.453	45	1667877	97.3872862	ppb	100
27) 2,2-Dichloropropane	3.940	77	833945	96.9393150	ppb	100
28) CIS-1,2-DICHLOROETHENE	3.873	96	598188	99.6914070	ppb	99
29) 2-BUTANONE (MEK)	4.183	43	1180491	481.5928398	ppb	100
30) BROMOCHLOROMETHANE	3.994	130	321930	96.0602900	ppb	99
31) TETRAHYDROFURAN	4.116	42	125776	94.8305305	ppb	98
32) CHLOROFORM	4.013	83	913737	98.0642039	ppb	99
34) 1,1,1-TRICHLOROETHANE	4.152	97	773187	98.5693858	ppb	99
35) CARBON TETRACHLORIDE	4.110	117	781737	99.6638820	ppb	99
36) 1,1-Dichloropropene	4.213	75	703124	97.7589429	ppb	99

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 13.D
Acq On : 4 Sep 2015 9:24 pm
Operator : 591
Sample : STD VMS 100 ppb 15I04618
Misc : water 15G07402
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 07 13:59:08 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.256	41	548725	96.0534016	ppb		98
38) HEPTANE	4.292	43	897403	96.8601970	ppb	#	97
39) BENZENE	4.359	78	2134524	98.6581111	ppb		98
40) 1,2-DICHLOROETHANE	4.475	62	641117	98.4954820	ppb		99
42) TRICHLOROETHENE	4.688	130	577521	98.9920389	ppb		99
43) 1,2-DICHLOROPROPANE	5.004	62	393936	97.7213285	ppb		100
44) DIBROMOMETHANE	4.949	93	320297	98.0405610	ppb		99
45) BROMODICHLOROMETHANE	5.022	83	719743	98.8021849	ppb		98
47) 2-CHLOROETHYL VINYL ETHER	5.320	63	6081	941.9528626	ppb	#	100
48) CIS-1,3-DICHLOROPROPENE	5.406	75	906602	100.0772603	ppb		100
49) 4-METHYL-2-PENTANONE (...	5.771	43	2023090	466.9722332	ppb		99
51) TOLUENE	5.552	91	2298722	97.0307822	ppb		99
52) TRANS-1,3-DICHLOROPROPENE	5.807	75	753094	97.3718877	ppb		100
54) 1,1,2-TRICHLOROETHANE	5.917	97	442176	97.3876476	ppb		99
55) TETRACHLOROETHENE	5.807	164	421682	96.2925650	ppb		100
56) 1,3-Dichloropropane	6.105	76	767402	98.2152057	ppb		100
57) 2-HEXANONE	6.312	58	864375	499.1030328	ppb		97
58) CHLORODIBROMOMETHANE	6.044	129	520896	102.4262683	ppb		100
59) 1,2-DIBROMOETHANE	6.221	107	472607	100.5950419	ppb		99
60) CHLOROBENZENE	6.562	112	1469357	96.9383417	ppb		98
61) 1,1,1,2-TETRACHLOROETHANE	6.592	133	478201	98.6839926	ppb	#	100
62) ETHYLBENZENE	6.555	106	833660	97.9766610	ppb		96
63) M&P-XYLENE	6.653	106	2001464	194.7714954	ppb		96
64) O-XYLENE	6.957	106	1004827	100.9345335	ppb		97
65) STYRENE	6.993	104	1619511	97.8234994	ppb		98
66) Bromoform	7.042	173	313670	102.7137814	ppb		99
67) Isopropylbenzene	7.176	105	2545538	94.7077648	ppb		99
69) Bromobenzene	7.492	77	1083481	97.0849455	ppb		100
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	560794	95.9688170	ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.651	110	146257	99.7394791	ppb		97
72) TRANS-1,4-DICHLORO-2-B...	7.663	53	143117	102.4604718	ppb		98
73) n-Propylbenzene	7.480	91	3076841	96.5024184	ppb		99
74) 4-ETHYLTOLUENE	7.553	105	2544429	95.9789652	ppb		98
75) 2-Chlorotoluene	7.614	126	581656	99.0105679	ppb		94
76) 4-Chlorotoluene	7.736	91	1866587	96.7990881	ppb		100
77) 1,3,5-Trimethylbenzene	7.614	105	2072624	94.9706925	ppb		100
78) tert-Butylbenzene	7.863	119	1727863	93.4403807	ppb		98
79) 1,2,4-Trimethylbenzene	7.912	105	2058726	95.5056384	ppb		99
80) sec-Butylbenzene	7.997	105	2760259	94.9055098	ppb		99
81) 1,3-DICHLOROBENZENE	8.192	146	1137274	96.5652217	ppb		99
82) p-Isopropyltoluene	8.101	119	2244471	94.1598881	ppb		99
83) DICYCLOPENTADIENE	8.107	66	2431873	93.9820517	ppb		99
85) 1,4-DICHLOROBENZENE	8.259	146	1098293	96.3735418	ppb	#	19
86) 1,2,3-TRIMETHYLBENZENE	8.259	105	2044292	93.5908299	ppb		97
87) 1,2-DICHLOROBENZENE	8.593	146	1078436	96.7130171	ppb		100
88) n-Butylbenzene	8.429	91	2193016	93.2468136	ppb		99
89) 1,2-Dibromo-3-chloropr...	9.232	157	119142	106.3208590	ppb		95
90) 1,2,4-Trichlorobenzene	9.786	180	687586	93.2800054	ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.743	225	357521	99.6721203	ppb		99
92) Naphthalene	10.060	128	1620465	98.5331588	ppb		100
93) 1,2,3-Trichlorobenzene	10.212	180	622578	95.9761995	ppb		100
94) 1-Methylnaphthalene	10.923	142	662848	104.2020263	ppb		100
95) 2-Methylnaphthalene	11.063	142	549570	100.9089399	ppb		99

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 13.D
Acq On : 4 Sep 2015 9:24 pm
Operator : 591
Sample : STD VMS 100 ppb 15I04618
Misc : water 15G07402
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 07 13:59:08 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

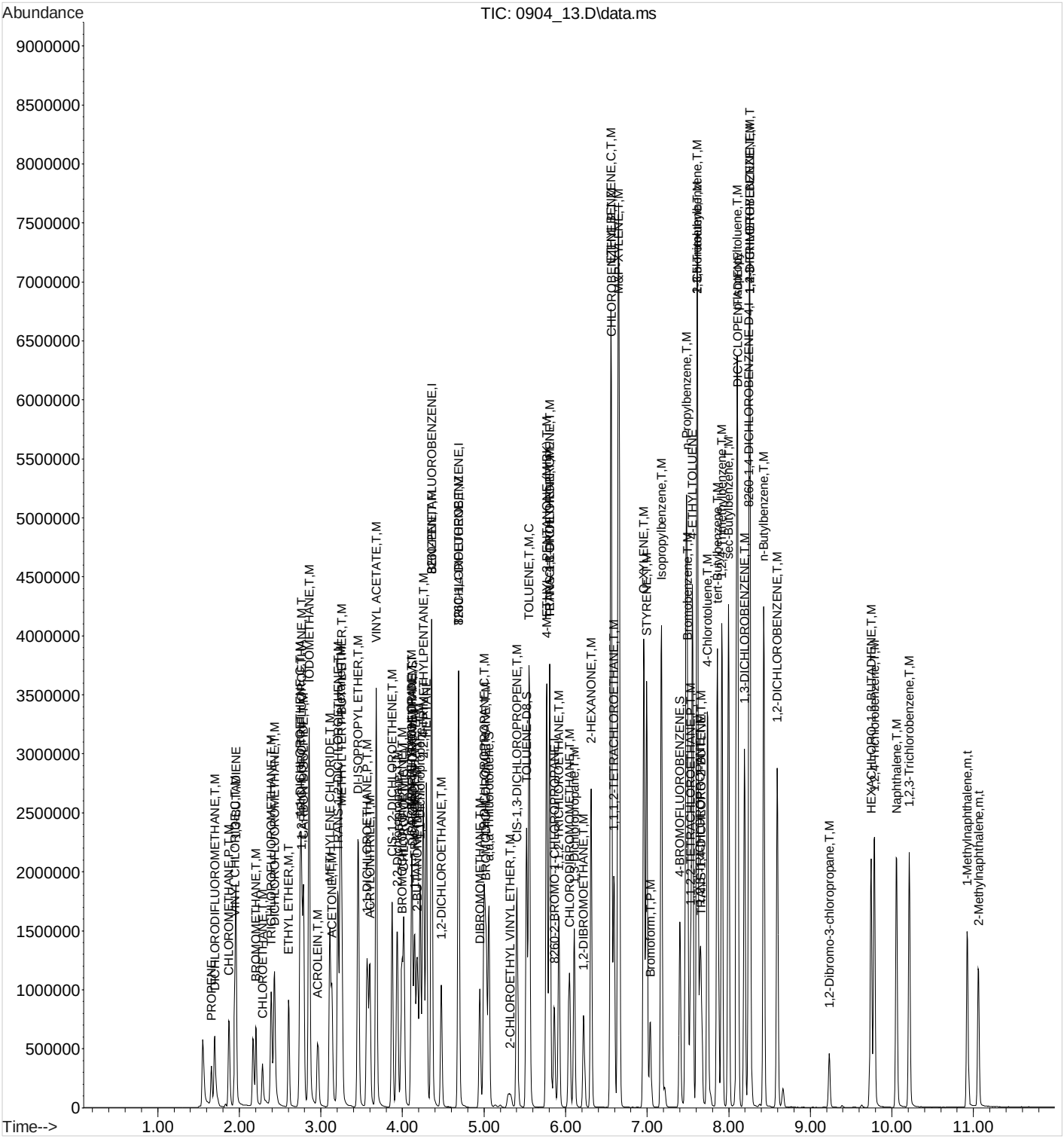
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 13.D
Acq On : 4 Sep 2015 9:24 pm
Operator : 591
Sample : STD VMS 100 ppb 15I04618
Misc : water 15G07402
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Sep 07 13:59:08 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 14.D
Acq On : 4 Sep 2015 9:46 pm
Operator : 591
Sample : STD VMS 200 ppb 15I04618
Misc : water 15G07402
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 07 13:59:31 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.359	168	577824	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1005653	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.862	79	154021	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	421179	40.0000000	ppb	#	0.00
96) AP9-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.36
114) AP9-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.69
122) AP9-2-BROMO-1-CHLOROPR...	0.000	79	0m	40.0000000	ppb		-5.86
128) AP9-1,4-DICHLOROBENZEN...	0.000	152	0m	40.0000000	ppb		-8.25
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.122	111	336458	47.8455167	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 119.61%				
46) a,a,a-Trifluorotoluene	5.059	146	600937	46.7617114	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 116.90%#				
50) TOLUENE-D8	5.521	98	1338380	48.0846236	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 120.21%#				
68) 4-BROMOFLUOROBENZENE	7.401	95	516909	49.2040543	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 123.01%#				
Target Compounds							Qvalue
3) PROPENE	1.658	41	282778	195.6200269	ppb		98
4) DICHLORODIFLUOROMETHANE	1.701	85	1054874	195.8531409	ppb		100
5) CHLOROMETHANE	1.871	50	1248860	195.7034902	ppb		99
6) VINYL CHLORIDE	1.944	62	1324947	194.8198864	ppb		99
7) 1,3-BUTADIENE	1.956	39	878415	180.7437557	ppb		97
8) BROMOMETHANE	2.200	94	482794	179.5596246	ppb		97
9) CHLOROETHANE	2.285	64	242897	72.4708418	ppb	#	92
10) TRICHLOROFLUOROMETHANE	2.382	101	1311435	172.1015686	ppb		99
11) DICHLOROFLUOROMETHANE	2.425	67	1811890	187.8682558	ppb		99
12) ETHYL ETHER	2.601	59	777186	194.8229043	ppb		100
13) ACROLEIN	2.960	56	764963	977.1743921	ppb		99
14) 1,1-DICHLOROETHENE	2.747	61	1473578	187.7733910	ppb		98
15) 1,1,2-TRICHLOROTRIFLUO...	2.759	101	969816	186.6636266	ppb		99
16) ACETONE	3.136	43	1854234	917.8953180	ppb		98
17) IODOMETHANE	2.850	142	5650097	861.4878738	ppb		99
18) CARBON DISULFIDE	2.784	76	3357608	188.2931028	ppb		99
19) METHYLENE CHLORIDE	3.112	84	1058628	194.1658333	ppb		99
20) ACRYLONITRILE	3.599	53	1486582	967.5790110	ppb		98
21) n-Hexane	3.234	56	930029	187.5262818	ppb		100
22) TRANS-1,2-DICHLOROETHENE	3.203	96	1057845	191.8167488	ppb		99
23) METHYL TERT-BUTYL ETHER	3.252	73	2590004	189.5581017	ppb		100
24) 1,1-DICHLOROETHANE	3.568	63	1832001	194.4795076	ppb		99
25) VINYL ACETATE	3.678	43	7942731	869.9458174	ppb		98
26) DI-ISOPROPYL ETHER	3.453	45	3198448	191.8284111	ppb		99
27) 2,2-Dichloropropane	3.933	77	1594602	190.3926740	ppb		100
28) CIS-1,2-DICHLOROETHENE	3.872	96	1147289	196.3940155	ppb		99
29) 2-BUTANONE (MEK)	4.183	43	2322837	973.3554557	ppb		99
30) BROMOCHLOROMETHANE	3.988	130	626729	192.0868462	ppb		100
31) TETRAHYDROFURAN	4.116	42	245920	190.4494148	ppb		98
32) CHLOROFORM	4.012	83	1733843	191.1324630	ppb		99
34) 1,1,1-TRICHLOROETHANE	4.152	97	1478522	193.6068368	ppb		99
35) CARBON TETRACHLORIDE	4.110	117	1495387	195.8240929	ppb		99
36) 1,1-Dichloropropene	4.213	75	1337722	191.0406712	ppb		99

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 14.D
Acq On : 4 Sep 2015 9:46 pm
Operator : 591
Sample : STD VMS 200 ppb 15I04618
Misc : water 15G07402
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 07 13:59:31 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
37) 2,2,4-TRIMETHYLPENTANE	4.256	41	1030827	185.3442763	ppb		96
38) HEPTANE	4.292	43	1709027	189.4707379	ppb	#	96
39) BENZENE	4.359	78	4066094	193.0387780	ppb		98
40) 1,2-DICHLOROETHANE	4.475	62	1240998	195.8328255	ppb		99
42) TRICHLOROETHENE	4.688	130	1099211	190.9067385	ppb		100
43) 1,2-DICHLOROPROPANE	5.004	62	750793	188.7085641	ppb		99
44) DIBROMOMETHANE	4.949	93	624470	193.6743913	ppb		100
45) BROMODICHLOROMETHANE	5.022	83	1384630	192.5885837	ppb		99
47) 2-CHLOROETHYL VINYL ETHER	5.333	63	11624	1824.3891126	ppb	#	100
48) CIS-1,3-DICHLOROPROPENE	5.406	75	1741925	194.8300270	ppb		100
49) 4-METHYL-2-PENTANONE (...	5.771	43	3881599	907.8084589	ppb		97
51) TOLUENE	5.552	91	4302029	183.9941934	ppb		97
52) TRANS-1,3-DICHLOROPROPENE	5.807	75	1452901	190.3391512	ppb		99
54) 1,1,2-TRICHLOROETHANE	5.917	97	871829	191.3140144	ppb		99
55) TETRACHLOROETHENE	5.807	164	791696	180.1245497	ppb		99
56) 1,3-Dichloropropane	6.105	76	1485084	189.3710503	ppb		99
57) 2-HEXANONE	6.312	58	1711654	984.7154584	ppb		95
58) CHLORODIBROMOMETHANE	6.044	129	1027627	201.3272676	ppb		100
59) 1,2-DIBROMOETHANE	6.221	107	923040	195.7508752	ppb		99
60) CHLOROBENZENE	6.561	112	2767882	181.9376565	ppb		98
61) 1,1,1,2-TETRACHLOROETHANE	6.598	133	934117	192.0632497	ppb	#	100
62) ETHYLBENZENE	6.555	106	1575906	184.5315989	ppb		93
63) M&P-XYLENE	6.653	106	3736186	362.2537330	ppb		93
64) O-XYLENE	6.957	106	1902164	190.3720590	ppb		95
65) STYRENE	6.993	104	3070492	184.7881118	ppb		98
66) Bromoform	7.042	173	626697	204.4655358	ppb		100
67) Isopropylbenzene	7.176	105	4753837	176.2207535	ppb		98
69) Bromobenzene	7.492	77	2060285	183.9351186	ppb		99
70) 1,1,2,2-TETRACHLOROETHANE	7.529	83	1116876	190.4313764	ppb		100
71) 1,2,3-TRICHLOROPROPANE	7.650	110	290287	197.2353645	ppb		96
72) TRANS-1,4-DICHLORO-2-B...	7.663	53	283051	201.9001241	ppb		99
73) n-Propylbenzene	7.480	91	5685605	177.6710187	ppb		98
74) 4-ETHYLTOLUENE	7.553	105	4699368	176.6167736	ppb		97
75) 2-Chlorotoluene	7.620	126	1114465	189.0116347	ppb		90
76) 4-Chlorotoluene	7.742	91	3475548	179.5779812	ppb		99
77) 1,3,5-Trimethylbenzene	7.614	105	3855585	176.0216668	ppb		98
78) tert-Butylbenzene	7.863	119	3314329	178.5778854	ppb		98
79) 1,2,4-Trimethylbenzene	7.912	105	3830084	177.0294525	ppb		98
80) sec-Butylbenzene	7.997	105	5098918	174.6732434	ppb		98
81) 1,3-DICHLOROBENZENE	8.192	146	2124217	179.7054617	ppb		99
82) p-Isopropyltoluene	8.101	119	4164964	174.0884474	ppb		99
83) DICYCLOPENTADIENE	8.107	66	4595858	176.9609322	ppb		98
85) 1,4-DICHLOROBENZENE	8.259	146	2008127	180.1453131	ppb	#	6
86) 1,2,3-TRIMETHYLBENZENE	8.259	105	3757968	175.8877665	ppb		96
87) 1,2-DICHLOROBENZENE	8.593	146	2003949	183.7254869	ppb		98
88) n-Butylbenzene	8.429	91	3969271	172.5421234	ppb		98
89) 1,2-Dibromo-3-chloropr...	9.232	157	237516	216.6898899	ppb		96
90) 1,2,4-Trichlorobenzene	9.786	180	1273613	176.6408752	ppb		99
91) HEXACHLORO-1,3-BUTADIENE	9.743	225	691022	196.9500983	ppb		100
92) Naphthalene	10.059	128	3075267	191.1691310	ppb		100
93) 1,2,3-Trichlorobenzene	10.212	180	1160024	182.8222042	ppb		99
94) 1-Methylnaphthalene	10.923	142	1306488	209.9712466	ppb		99
95) 2-Methylnaphthalene	11.063	142	1037271	194.7112523	ppb		98

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 14.D
Acq On : 4 Sep 2015 9:46 pm
Operator : 591
Sample : STD VMS 200 ppb 15I04618
Misc : water 15G07402
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 07 13:59:31 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

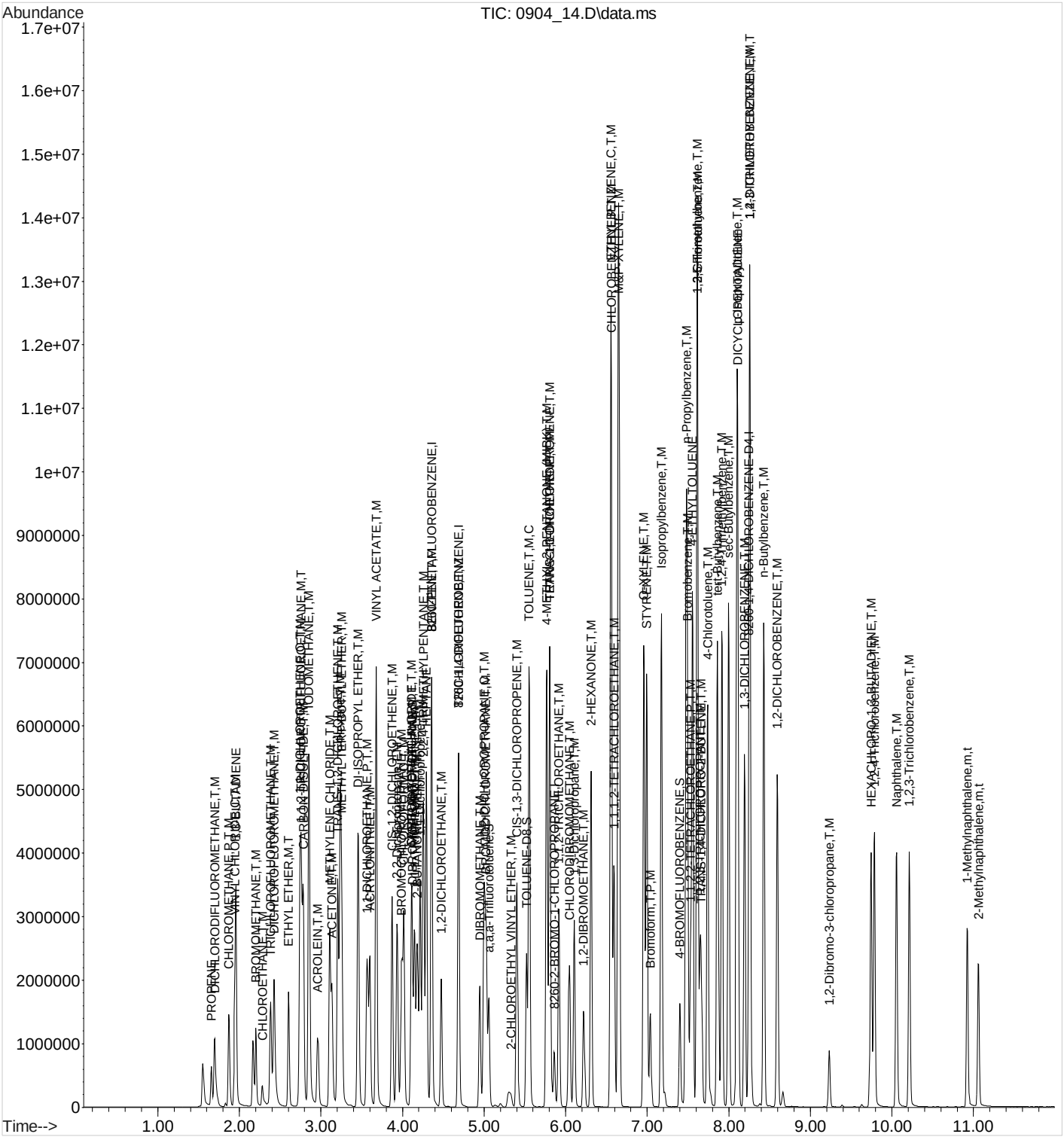
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 14.D
Acq On : 4 Sep 2015 9:46 pm
Operator : 591
Sample : STD VMS 200 ppb 15I04618
Misc : water 15G07402
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Sep 07 13:59:31 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 13:54:03 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 19.D
Acq On : 4 Sep 2015 11:39 pm
Operator : 591
Sample : STD VMS 1a ppb 15H20824
Misc : water 15G07402
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 07 14:16:31 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:15:02 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.36
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.69
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.86
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.25
96) AP9-PENTAFLUOROBENZENE	4.359	168	608408	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	993983	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.856	79	146930	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	420955	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#				
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#				
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#				
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#				
Target Compounds							Qvalue
97) ETHANOL	2.698	45	7838	126.2345699	ppb	#	85
98) Bromoethane	2.924	108	4883	0.9688068	ppb		93
99) 2-PROPANOL	3.033	45	2297	7.2143045	ppb	#	88
100) Methyl Acetate	3.197	43	64560	21.1574107	ppb	#	99
101) ACETONITRILE	3.422	41	26346	51.0172034	ppb		99
102) ALLYL CHLORIDE	3.045	76	14754	5.3687348	ppb		99
103) tert-BUTYL ALCOHOL	3.289	59	5163	5.4949644	ppb	#	91
104) chloroprene	3.550	53	44314	5.3651865	ppb		96
105) ETHYL TERT-BUTYL ETHER	3.666	59	16381	1.0368167	ppb		95
106) PROPIONITRILE	4.365	54	30668	53.2073967	ppb	#	67
107) Ethyl Acetate	4.049	43	40049	10.1961593	ppb		96
108) METHACRYLONITRILE	4.377	67	96819	53.2950171	ppb		93
109) Cyclohexane	3.994	56	15712	1.1029145	ppb		98
110) tert-butyl formate	4.262	59	13615	9.2876466	ppb		89
111) ISOBUTANOL	4.408	43	25281	105.1513962	ppb	#	95
112) t-Amyl Alcohol	4.481	59	2070	5.1864465	ppb		100
113) TERT-AMYL METHYL ETHER	4.390	73	18223	1.1269580	ppb	#	28
115) N-BUTANOL	4.816	56	16440	159.7413683	ppb	#	87
116) Methyl Cyclohexane	4.688	83	24514	1.8266317	ppb	#	80
117) 2-nitropropane	5.704	43	6280	5.3607562	ppb	#	69
118) METHYL METHACRYLATE	5.077	41	20528	5.1808607	ppb	#	1
119) 1,4-DIOXANE	5.138	88	8302	149.0646749	ppb		99
120) n-octane	5.393	85	6175	1.1300802	ppb		96
121) 3,3-DIMETHYL-1-BUTANOL	6.276	57	5897	12.8910418	ppb	#	75
123) ETHYL METHACRYLATE	5.868	69	26079	5.0929272	ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.438	53	6448	4.9649940	ppb	#	30
125) Cyclohexanone	7.699	55	7626	9.5440913	ppb	#	81
126) PENTACHLOROETHANE	7.900	117	12455	4.8126068	ppb		93
127) Hexachloroethane	8.575	117	3627	0.9051988	ppb	#	92

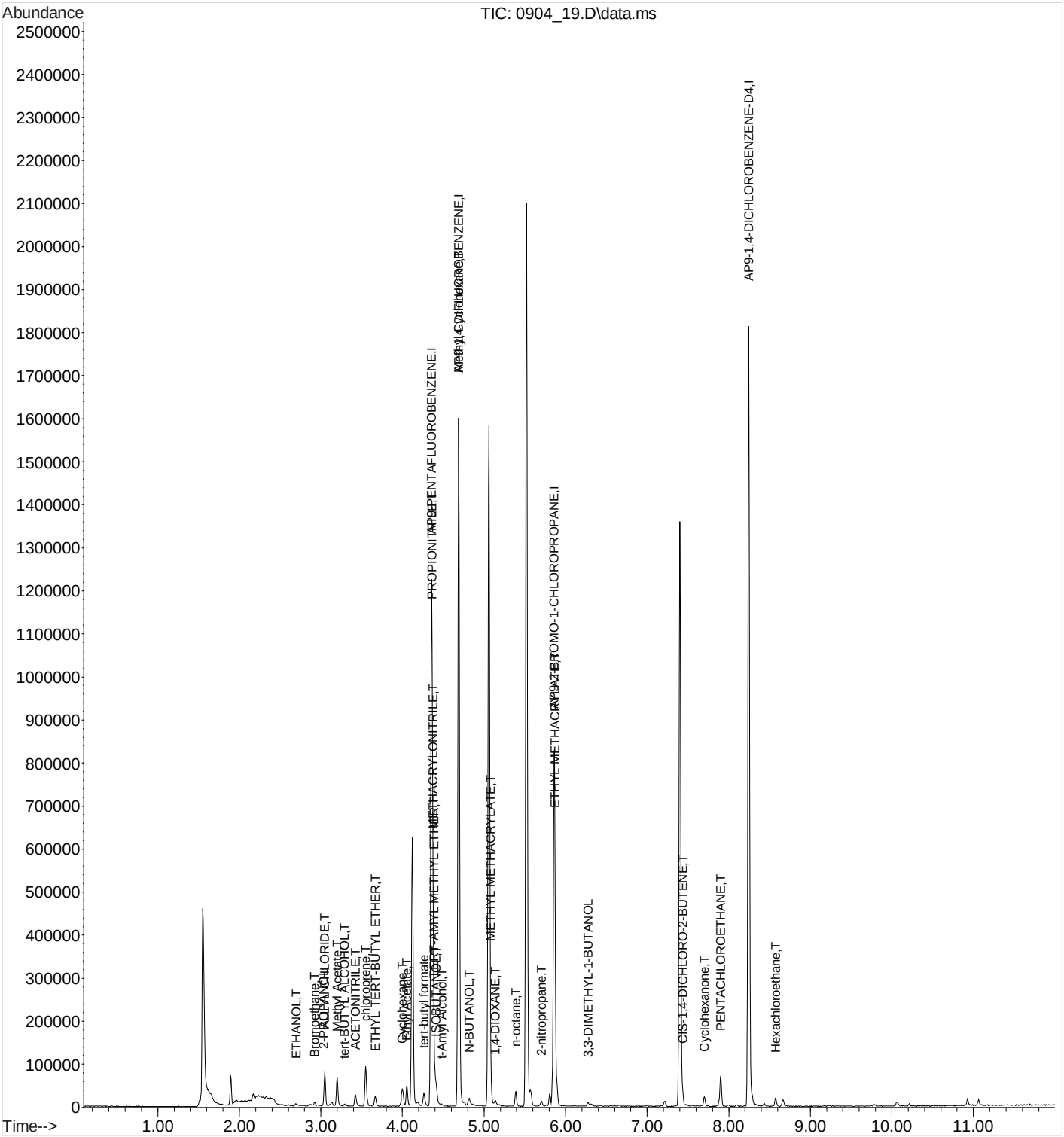
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 19.D
Acq On : 4 Sep 2015 11:39 pm
Operator : 591
Sample : STD VMS 1a ppb 15H20824
Misc : water 15G07402
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Sep 07 14:16:31 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:15:02 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 20.D
Acq On : 5 Sep 2015 12:02 am
Operator : 591
Sample : STD VMS 2.5 ppb 15H20824
Misc : water 15G07402
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 07 14:16:53 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:15:02 2015
Response via : Initial Calibration

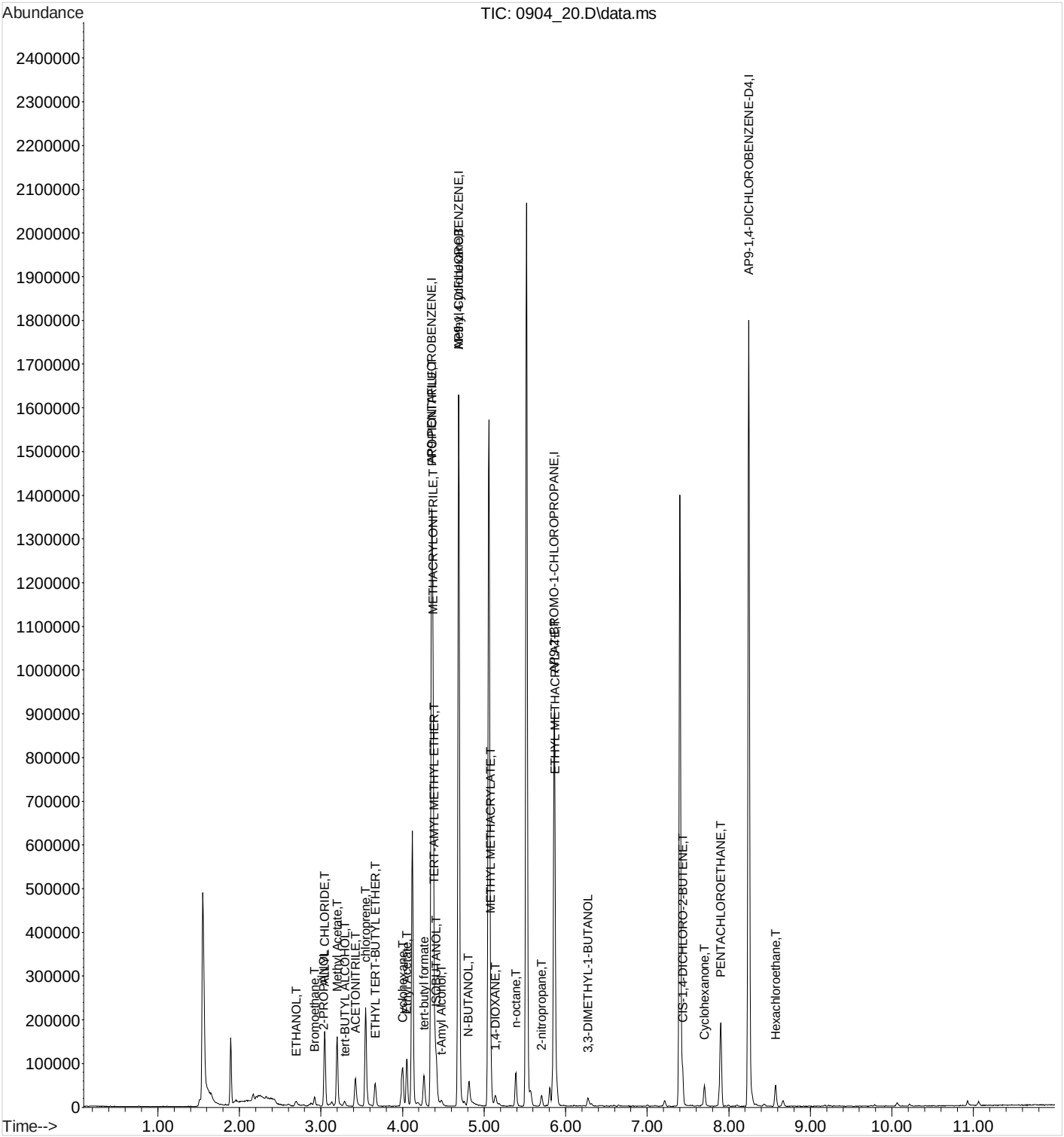
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.36
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.69
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.86
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.25
96) AP9-PENTAFLUOROBENZENE	4.359	168	606690	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	992234	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.856	79	149772	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	422129	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery = 0.00%#				
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery = 0.00%#				
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery = 0.00%#				
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery = 0.00%#				
Target Compounds							Qvalue
97) ETHANOL	2.698	45	15894	256.7050035	ppb	#	94
98) Bromoethane	2.923	108	12061	2.3997272	ppb		98
99) 2-PROPANOL	3.033	45	4705	14.8190780	ppb	#	87
100) Methyl Acetate	3.197	43	151722	49.8626818	ppb	#	99
101) ACETONITRILE	3.422	41	62880	122.1075657	ppb		98
102) ALLYL CHLORIDE	3.045	76	33925	12.3796998	ppb		98
103) tert-BUTYL ALCOHOL	3.295	59	11240	11.9965715	ppb	#	94
104) chloroprene	3.550	53	106201	12.8943828	ppb		97
105) ETHYL TERT-BUTYL ETHER	3.666	59	38877	2.4676434	ppb		99
106) PROPIONITRILE	4.365	54	70480	122.6254266	ppb	#	83
107) Ethyl Acetate	4.049	43	93014	23.7476881	ppb		98
108) METHACRYLONITRILE	4.377	67	228512	126.1429850	ppb		96
109) Cyclohexane	4.000	56	35755	2.5169537	ppb		99
110) tert-butyl formate	4.262	59	34231	23.4172398	ppb		97
111) ISOBUTANOL	4.408	43	60522	252.4423100	ppb	#	100
112) t-Amyl Alcohol	4.475	59	5021	12.6158889	ppb		98
113) TERT-AMYL METHYL ETHER	4.390	73	41649	2.5829769	ppb	#	40
115) N-BUTANOL	4.809	56	40182	391.1217690	ppb		99
116) Methyl Cyclohexane	4.688	83	43255	3.2287764	ppb	#	89
117) 2-nitropropane	5.704	43	14001	11.9726510	ppb	#	90
118) METHYL METHACRYLATE	5.077	41	49270	12.4566911	ppb	#	40
119) 1,4-DIOXANE	5.138	88	16323	293.6005340	ppb		95
120) n-octane	5.393	85	14030	2.5721414	ppb		98
121) 3,3-DIMETHYL-1-BUTANOL	6.269	57	12153	26.6136989	ppb		89
123) ETHYL METHACRYLATE	5.868	69	62267	11.9292826	ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.437	53	15533	11.7335354	ppb	#	30
125) Cyclohexanone	7.699	55	18742	23.0108979	ppb		98
126) PENTACHLOROETHANE	7.900	117	33345	12.6400042	ppb		95
127) Hexachloroethane	8.575	117	9548	2.3376995	ppb		96

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

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 20.D
Acq On : 5 Sep 2015 12:02 am
Operator : 591
Sample : STD VMS 2.5 ppb 15H20824
Misc : water 15G07402
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Sep 07 14:16:53 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:15:02 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 21.D
Acq On : 5 Sep 2015 12:24 am
Operator : 591
Sample : STD VMS 5 ppb 15H20824
Misc : water 15G07402
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 07 14:17:15 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:15:02 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.36
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.69
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.86
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.25
96) AP9-PENTAFLUOROBENZENE	4.359	168	602574	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	998197	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.856	79	151647	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.246	152	422928	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
97) ETHANOL	2.698	45	31198	507.3227369	ppb	#	100
98) Bromoethane	2.923	108	23943	4.7963798	ppb		95
99) 2-PROPANOL	3.033	45	8474	26.8724005	ppb		100
100) Methyl Acetate	3.197	43	313639	103.7799799	ppb	#	100
101) ACETONITRILE	3.422	41	128718	251.6667098	ppb		99
102) ALLYL CHLORIDE	3.045	76	67459	24.7848675	ppb		96
103) tert-BUTYL ALCOHOL	3.294	59	23664	25.4293605	ppb	#	97
104) chloroprene	3.550	53	209544	25.6155468	ppb		99
105) ETHYL TERT-BUTYL ETHER	3.666	59	78399	5.0102181	ppb		100
106) PROPIONITRILE	4.365	54	147460	258.3124349	ppb		93
107) Ethyl Acetate	4.049	43	200085	51.4332532	ppb		99
108) METHACRYLONITRILE	4.377	67	463641	257.6869196	ppb		95
109) Cyclohexane	4.000	56	72143	5.1131565	ppb		99
110) tert-butyl formate	4.262	59	68985	47.5146171	ppb		99
111) ISOBUTANOL	4.414	43	120971	508.0267646	ppb	#	99
112) t-Amyl Alcohol	4.481	59	10171	25.7304711	ppb		96
113) TERT-AMYL METHYL ETHER	4.389	73	82222	5.1340540	ppb	#	40
115) N-BUTANOL	4.809	56	92315	893.2037906	ppb		95
116) Methyl Cyclohexane	4.688	83	77151	5.7245461	ppb		93
117) 2-nitropropane	5.704	43	29380	24.9735857	ppb		94
118) METHYL METHACRYLATE	5.077	41	103360	25.9758924	ppb	#	77
119) 1,4-DIOXANE	5.138	88	29938	535.2756516	ppb		97
120) n-octane	5.393	85	28059	5.1133698	ppb		98
121) 3,3-DIMETHYL-1-BUTANOL	6.269	57	22600	49.1957997	ppb		98
123) ETHYL METHACRYLATE	5.868	69	129975	24.5930853	ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.437	53	32691	24.3892562	ppb	#	30
125) Cyclohexanone	7.699	55	36752	44.5651545	ppb		98
126) PENTACHLOROETHANE	7.900	117	79348	29.7063496	ppb		98
127) Hexachloroethane	8.569	117	18929	4.5772091	ppb		95

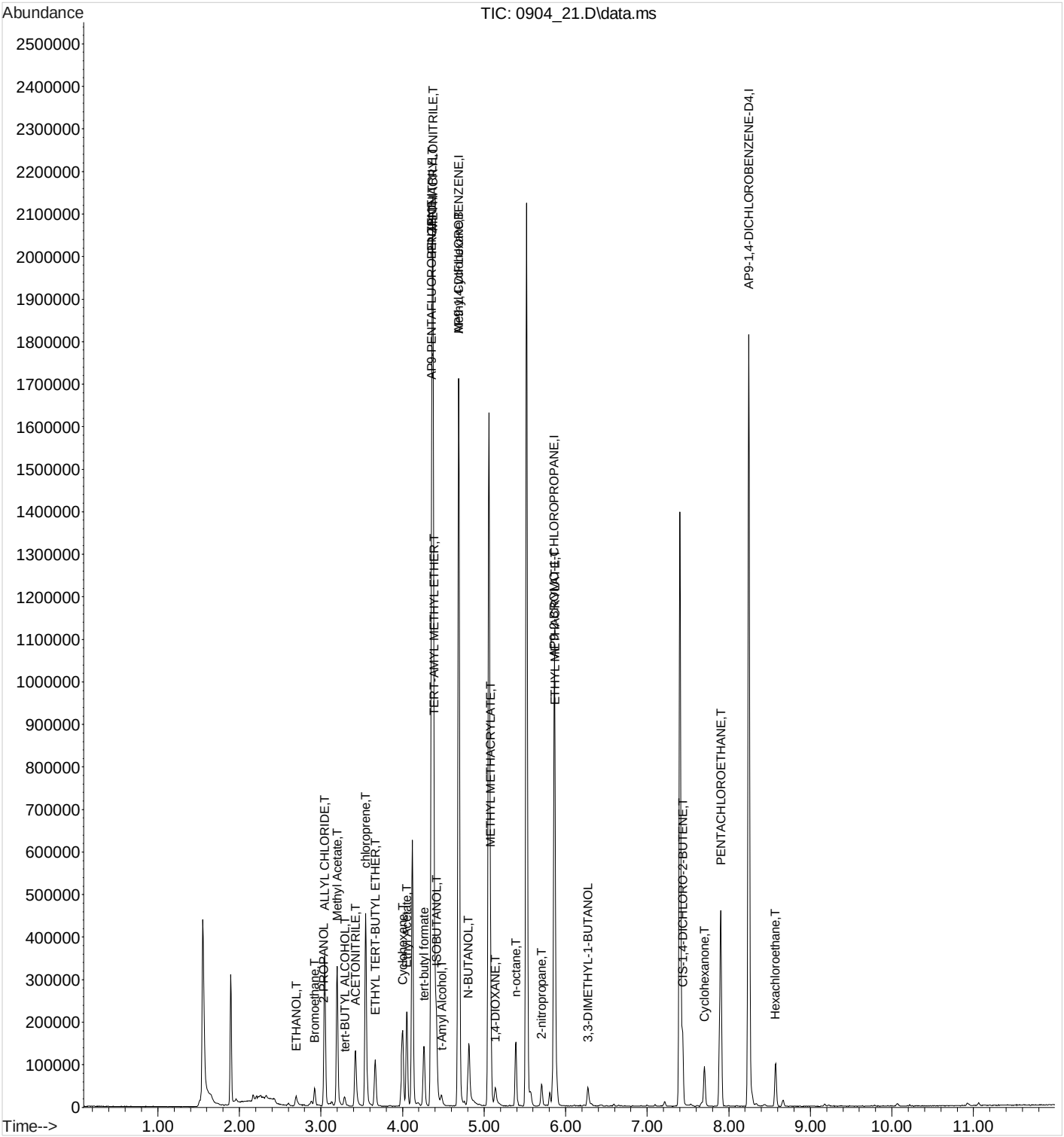
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 21.D
Acq On : 5 Sep 2015 12:24 am
Operator : 591
Sample : STD VMS 5 ppb 15H20824
Misc : water 15G07402
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Sep 07 14:17:15 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:15:02 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 22.D
Acq On : 5 Sep 2015 12:47 am
Operator : 591
Sample : STD VMS 7.5 ppb 15H20824
Misc : water 15G07402
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 07 14:17:38 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:15:02 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.36
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.69
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.86
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.25
96) AP9-PENTAFLUOROBENZENE	4.359	168	596575	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	988601	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.856	79	148571	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.246	152	423891	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
97) ETHANOL	2.698	45	43758	718.7210682	ppb	#	98
98) Bromoethane	2.923	108	35914	7.2668152	ppb		97
99) 2-PROPANOL	3.033	45	11844	37.9368914	ppb	#	82
100) Methyl Acetate	3.197	43	459763	153.6607251	ppb	#	99
101) ACETONITRILE	3.422	41	188427	372.1131011	ppb		98
102) ALLYL CHLORIDE	3.045	76	103573	38.4360366	ppb		99
103) tert-BUTYL ALCOHOL	3.288	59	33426	36.2808147	ppb		98
104) chloroprene	3.550	53	306937	37.8985840	ppb		99
105) ETHYL TERT-BUTYL ETHER	3.666	59	113116	7.3015571	ppb		99
106) PROPIONITRILE	4.365	54	212182	375.4265315	ppb		96
107) Ethyl Acetate	4.049	43	283426	73.5892691	ppb		100
108) METHACRYLONITRILE	4.377	67	673637	378.1654185	ppb		97
109) Cyclohexane	3.994	56	104636	7.4906819	ppb		99
110) tert-butyl formate	4.262	59	97569	67.8781126	ppb		99
111) ISOBUTANOL	4.408	43	175417	744.0846415	ppb	#	100
112) t-Amyl Alcohol	4.475	59	12960	33.1157369	ppb		88
113) TERT-AMYL METHYL ETHER	4.389	73	117534	7.4127823	ppb	#	41
115) N-BUTANOL	4.809	56	139604	1363.8649243	ppb		99
116) Methyl Cyclohexane	4.688	83	106145	7.9523274	ppb		99
117) 2-nitropropane	5.704	43	42498	36.4747915	ppb		100
118) METHYL METHACRYLATE	5.077	41	150022	38.0687084	ppb		87
119) 1,4-DIOXANE	5.138	88	40106	724.0345140	ppb		96
120) n-octane	5.393	85	40060	7.3712506	ppb		98
121) 3,3-DIMETHYL-1-BUTANOL	6.269	57	31498	69.2305496	ppb		97
123) ETHYL METHACRYLATE	5.868	69	182184	35.1854573	ppb	#	26
124) CIS-1,4-DICHLORO-2-BUTENE	7.431	53	47859	36.4446469	ppb	#	30
125) Cyclohexanone	7.699	55	59219	73.2951579	ppb		96
126) PENTACHLOROETHANE	7.900	117	100937	38.5712285	ppb		98
127) Hexachloroethane	8.575	117	28527	7.0409127	ppb		98

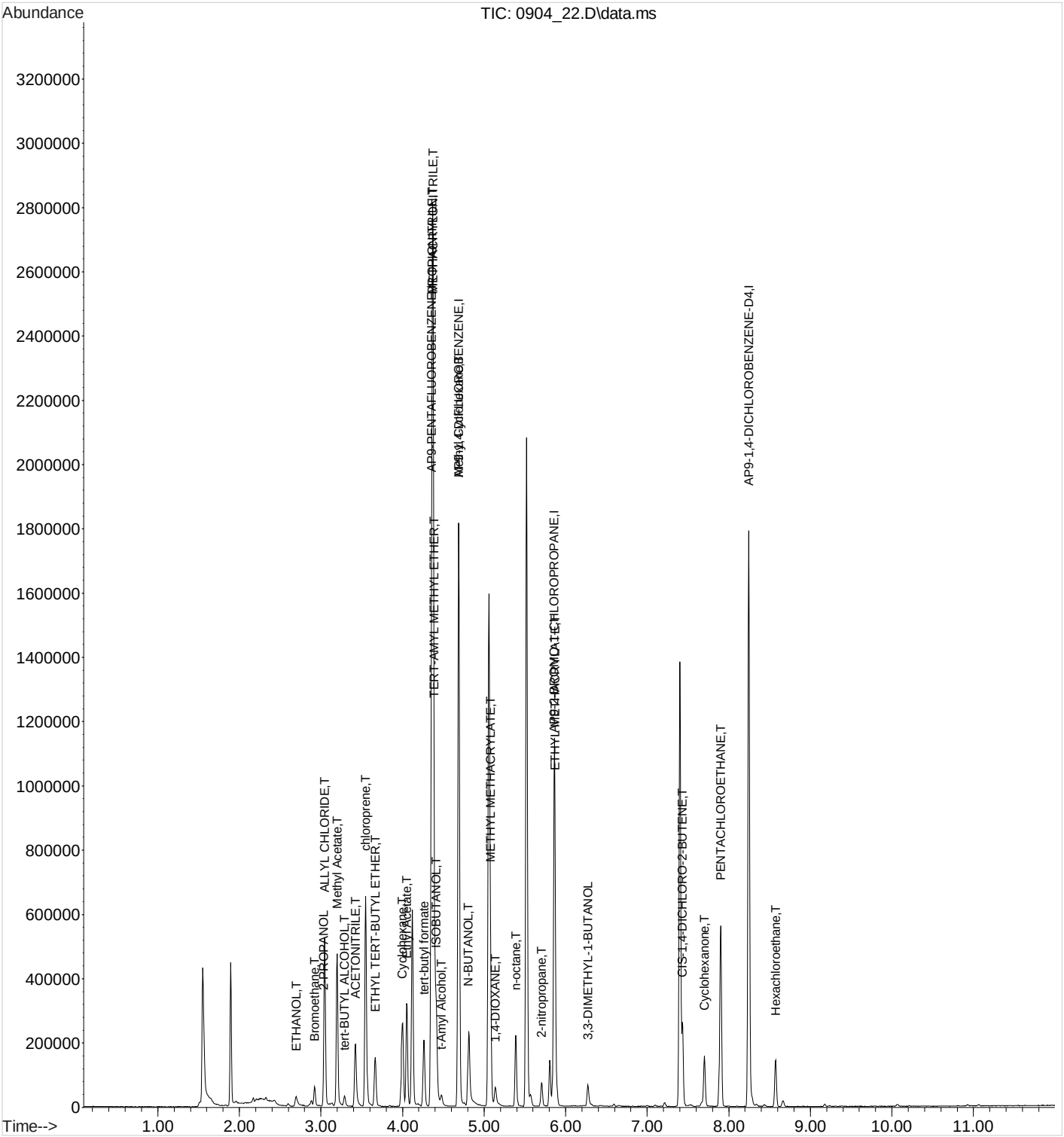
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 22.D
Acq On : 5 Sep 2015 12:47 am
Operator : 591
Sample : STD VMS 7.5 ppb 15H20824
Misc : water 15G07402
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Sep 07 14:17:38 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:15:02 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 23.D
Acq On : 5 Sep 2015 1:09 am
Operator : 591
Sample : MSTD VMS 10a ppb 15H20824
Misc : water 15G07402
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 07 14:18:01 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:15:02 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.36
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.69
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.86
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.25
96) AP9-PENTAFLUOROBENZENE	4.359	168	601302	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	996534	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.862	79	148945	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	429859	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
97) ETHANOL	2.698	45	56930	927.7190981	ppb	#	96
98) Bromoethane	2.923	108	48950	9.8266488	ppb		100
99) 2-PROPANOL	3.033	45	15549	49.4126570	ppb		98
100) Methyl Acetate	3.197	43	597337	198.0709016	ppb	#	99
101) ACETONITRILE	3.422	41	239912	470.0631427	ppb		99
102) ALLYL CHLORIDE	3.045	76	136334	50.1959434	ppb		99
103) tert-BUTYL ALCOHOL	3.288	59	44711	48.1481280	ppb		98
104) chloroprene	3.550	53	405542	49.6800449	ppb		99
105) ETHYL TERT-BUTYL ETHER	3.666	59	154568	9.8988203	ppb		99
106) PROPIONITRILE	4.365	54	279716	491.0278590	ppb		97
107) Ethyl Acetate	4.049	43	375296	96.6765489	ppb		100
108) METHACRYLONITRILE	4.377	67	887869	494.5123855	ppb		98
109) Cyclohexane	4.000	56	136590	9.7013357	ppb		97
110) tert-butyl formate	4.262	59	136216	94.0196063	ppb		98
111) ISOBUTANOL	4.408	43	229965	967.7981895	ppb	#	98
112) t-Amyl Alcohol	4.475	59	17805	45.1381547	ppb		93
113) TERT-AMYL METHYL ETHER	4.390	73	160013	10.0125662	ppb	#	42
115) N-BUTANOL	4.809	56	184889	1791.8988742	ppb		100
116) Methyl Cyclohexane	4.688	83	141359	10.5062347	ppb		97
117) 2-nitropropane	5.704	43	56073	47.7427073	ppb		93
118) METHYL METHACRYLATE	5.077	41	199783	50.2922015	ppb		92
119) 1,4-DIOXANE	5.138	88	52692	943.6773418	ppb		96
120) n-octane	5.393	85	55476	10.1266149	ppb		97
121) 3,3-DIMETHYL-1-BUTANOL	6.269	57	43356	94.5350663	ppb		99
123) ETHYL METHACRYLATE	5.868	69	250126	48.1858941	ppb	#	54
124) CIS-1,4-DICHLORO-2-BUTENE	7.431	53	64014	48.6242830	ppb		90
125) Cyclohexanone	7.699	55	71844	88.6977978	ppb		98
126) PENTACHLOROETHANE	7.900	117	150361	57.3134303	ppb		99
127) Hexachloroethane	8.575	117	38874	9.5706229	ppb		96

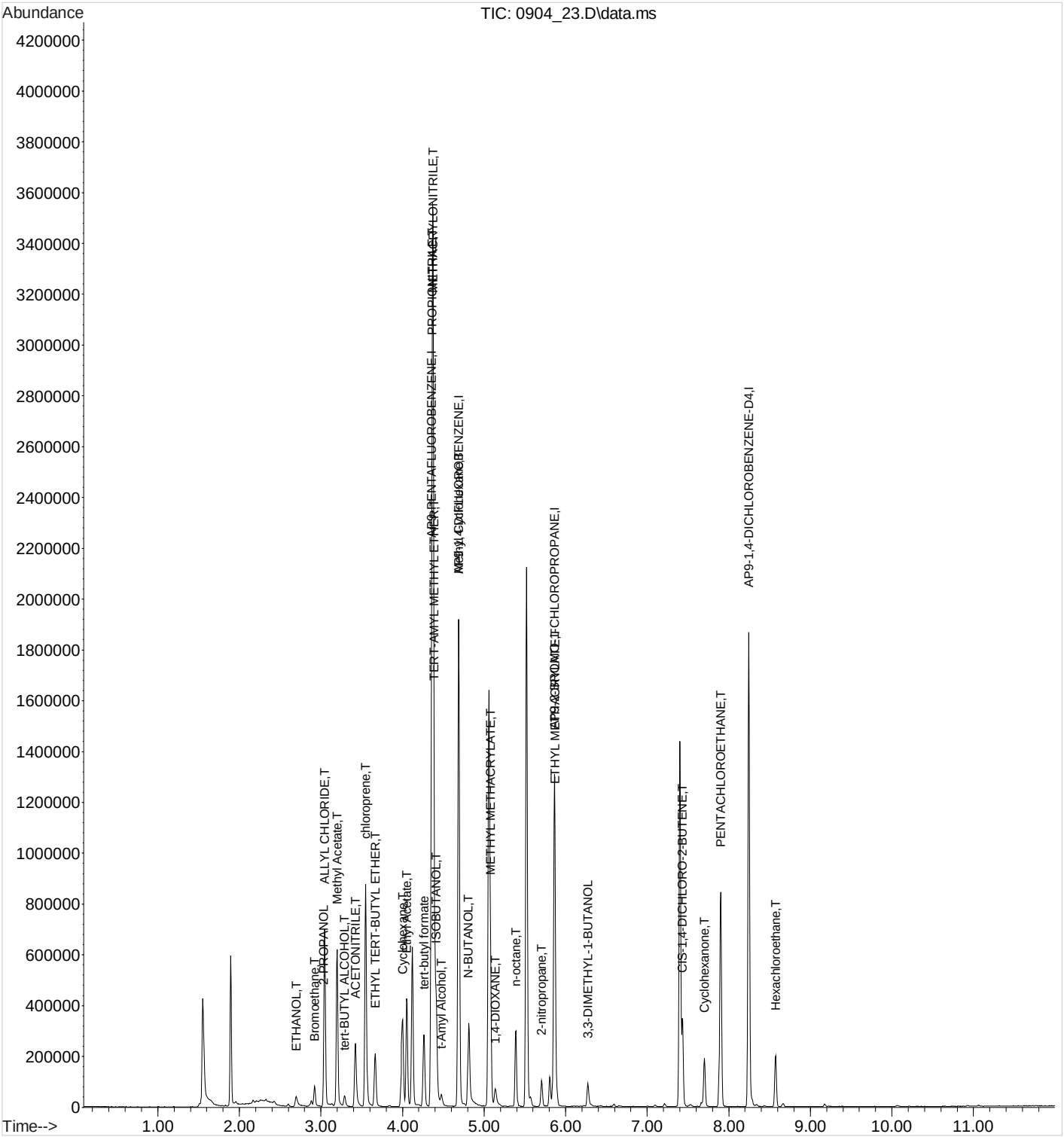
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 23.D
Acq On : 5 Sep 2015 1:09 am
Operator : 591
Sample : MSTD VMS 10a ppb 15H20824
Misc : water 15G07402
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Sep 07 14:18:01 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:15:02 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 24.D
Acq On : 5 Sep 2015 1:32 am
Operator : 591
Sample : STD VMS 12.5 ppb 15H20824
Misc : water 15G07402
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 07 14:18:22 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:15:02 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.36
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.69
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.86
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.25
96) AP9-PENTAFLUOROBENZENE	4.359	168	589607	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	985924	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.856	79	149052	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	8.246	152	417709	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
97) ETHANOL	2.698	45	76537	1271.9697001	ppb	#	98
98) Bromoethane	2.923	108	60498	12.3857918	ppb		98
99) 2-PROPANOL	3.033	45	19028	61.6678637	ppb		93
100) Methyl Acetate	3.197	43	742454	251.0734734	ppb	#	100
101) ACETONITRILE	3.422	41	311437	622.3066663	ppb		99
102) ALLYL CHLORIDE	3.045	76	168937	63.4335824	ppb		99
103) tert-BUTYL ALCOHOL	3.288	59	53598	58.8631670	ppb		97
104) chloroprene	3.550	53	510514	63.7798972	ppb		99
105) ETHYL TERT-BUTYL ETHER	3.666	59	190270	12.4269396	ppb		99
106) PROPIONITRILE	4.365	54	349140	625.0553099	ppb		99
107) Ethyl Acetate	4.049	43	479292	125.9149800	ppb		100
108) METHACRYLONITRILE	4.377	67	1104004	627.0886565	ppb		98
109) Cyclohexane	3.994	56	174863	12.6660317	ppb		99
110) tert-butyl formate	4.262	59	170617	120.0998940	ppb		98
111) ISOBUTANOL	4.414	43	289527	1242.6309044	ppb	#	99
112) t-Amyl Alcohol	4.481	59	23675	61.2099223	ppb		95
113) TERT-AMYL METHYL ETHER	4.389	73	197141	12.5804769	ppb	#	42
115) N-BUTANOL	4.809	56	247839	2427.8438620	ppb		99
116) Methyl Cyclohexane	4.688	83	173585	13.0402077	ppb		97
117) 2-nitropropane	5.704	43	71558	61.5828986	ppb		98
118) METHYL METHACRYLATE	5.077	41	247027	62.8543330	ppb		95
119) 1,4-DIOXANE	5.138	88	71006	1285.3534706	ppb		97
120) n-octane	5.387	85	68459	12.6310190	ppb		100
121) 3,3-DIMETHYL-1-BUTANOL	6.269	57	54546	120.2140740	ppb		95
123) ETHYL METHACRYLATE	5.868	69	315326	60.7028367	ppb	#	73
124) CIS-1,4-DICHLORO-2-BUTENE	7.431	53	80804	61.3337086	ppb		88
125) Cyclohexanone	7.699	55	82485	101.7619528	ppb		99
126) PENTACHLOROETHANE	7.900	117	192523	73.3317313	ppb		99
127) Hexachloroethane	8.575	117	49708	12.2291250	ppb		99

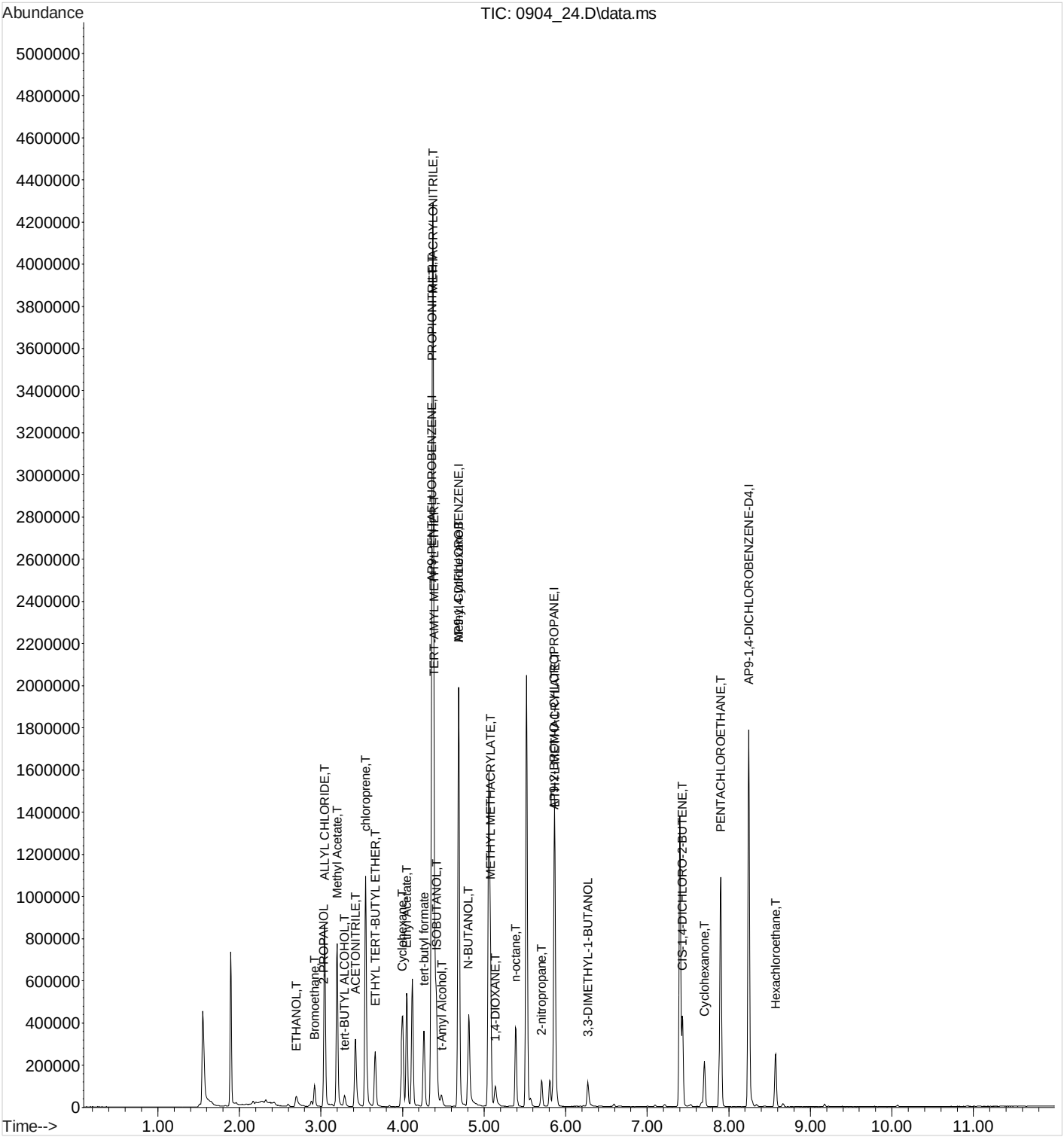
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 24.D
Acq On : 5 Sep 2015 1:32 am
Operator : 591
Sample : STD VMS 12.5 ppb 15H20824
Misc : water 15G07402
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Sep 07 14:18:22 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:15:02 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 25.D
Acq On : 5 Sep 2015 1:54 am
Operator : 591
Sample : STD VMS 15 ppb 15H20824
Misc : water 15G07402
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 07 14:18:46 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:15:02 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.36
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.69
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.86
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.25
96) AP9-PENTAFLUOROBENZENE	4.359	168	574472	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	960598	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.862	79	142123	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	417525	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
97) ETHANOL	2.698	45	93340	1592.0873526	ppb		98
98) Bromoethane	2.924	108	72728	15.2819286	ppb		100
99) 2-PROPANOL	3.033	45	24270	80.7289498	ppb		95
100) Methyl Acetate	3.197	43	891940	309.5712959	ppb	#	99
101) ACETONITRILE	3.422	41	375631	770.3523957	ppb		100
102) ALLYL CHLORIDE	3.045	76	198896	76.6503735	ppb		99
103) tert-BUTYL ALCOHOL	3.289	59	66304	74.7357737	ppb		99
104) chloroprene	3.550	53	601626	77.1429993	ppb		99
105) ETHYL TERT-BUTYL ETHER	3.666	59	225924	15.1443278	ppb		99
106) PROPIONITRILE	4.365	54	425219	781.3133918	ppb		100
107) Ethyl Acetate	4.049	43	579145	156.1558638	ppb		99
108) METHACRYLONITRILE	4.377	67	1323124	771.3520004	ppb		98
109) Cyclohexane	3.994	56	206470	15.3494694	ppb		99
110) tert-butyl formate	4.262	59	201140	145.3156985	ppb		98
111) ISOBUTANOL	4.414	43	355648	1566.6328035	ppb	#	99
112) t-Amyl Alcohol	4.475	59	29945	79.4602492	ppb		97
113) TERT-AMYL METHYL ETHER	4.390	73	232082	15.2004125	ppb	#	43
115) N-BUTANOL	4.809	56	318152	3198.8032114	ppb		98
116) Methyl Cyclohexane	4.688	83	202797	15.6363579	ppb		98
117) 2-nitropropane	5.704	43	87240	77.0582869	ppb		100
118) METHYL METHACRYLATE	5.077	41	291478	76.1199229	ppb		96
119) 1,4-DIOXANE	5.144	88	84165	1563.7265671	ppb		96
120) n-octane	5.393	85	81406	15.4157981	ppb		98
121) 3,3-DIMETHYL-1-BUTANOL	6.269	57	69183	156.4925108	ppb		97
123) ETHYL METHACRYLATE	5.868	69	375946	75.9011079	ppb		87
124) CIS-1,4-DICHLORO-2-BUTENE	7.431	53	97259	77.4229308	ppb		99
125) Cyclohexanone	7.699	55	127460	164.9141078	ppb		100
126) PENTACHLOROETHANE	7.900	117	186053	74.3223506	ppb		99
127) Hexachloroethane	8.575	117	58534	15.1025658	ppb		97

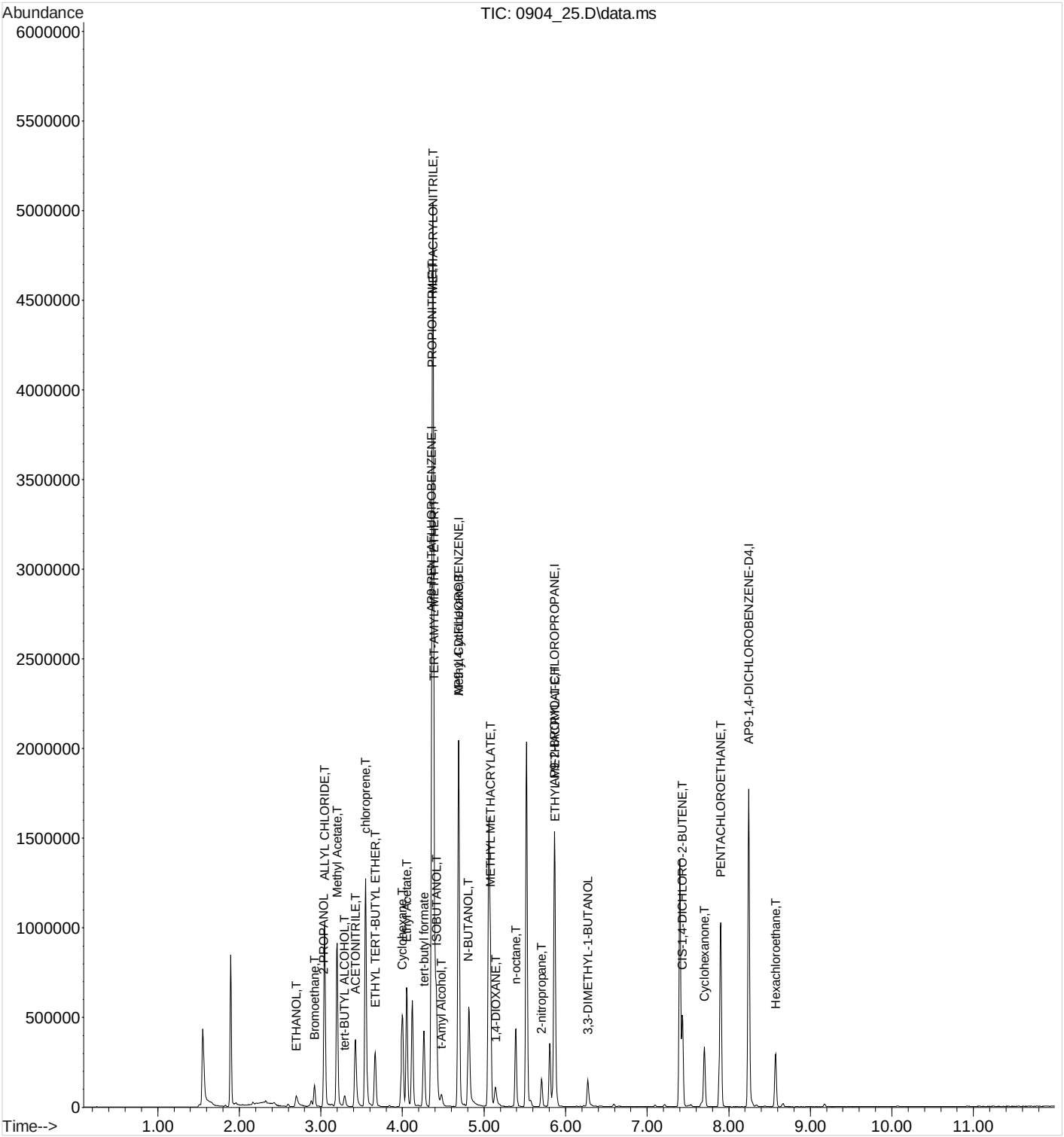
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 25.D
Acq On : 5 Sep 2015 1:54 am
Operator : 591
Sample : STD VMS 15 ppb 15H20824
Misc : water 15G07402
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Sep 07 14:18:46 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:15:02 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 26.D
Acq On : 5 Sep 2015 2:17 am
Operator : 591
Sample : STD VMS 17.5 ppb 15H20824
Misc : water 15G07402
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 07 14:19:10 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:15:02 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.36
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.69
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.86
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.25
96) AP9-PENTAFLUOROBENZENE	4.359	168	576022	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	966931	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.862	79	146219	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	8.246	152	420177	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
97) ETHANOL	2.704	45	109753	1867.0041832	ppb		99
98) Bromoethane	2.923	108	84099	17.6237023	ppb		98
99) 2-PROPANOL	3.033	45	26497	87.8994236	ppb	#	87
100) Methyl Acetate	3.197	43	1043129	361.0712080	ppb	#	99
101) ACETONITRILE	3.422	41	434702	889.0976135	ppb		100
102) ALLYL CHLORIDE	3.045	76	230355	88.5351372	ppb		99
103) tert-BUTYL ALCOHOL	3.294	59	79829	89.7386000	ppb		98
104) chloroprene	3.550	53	691132	88.3813682	ppb		100
105) ETHYL TERT-BUTYL ETHER	3.665	59	262382	17.5408836	ppb		99
106) PROPIONITRILE	4.365	54	496808	910.3973441	ppb		100
107) Ethyl Acetate	4.049	43	675665	181.6904931	ppb		100
108) METHACRYLONITRILE	4.377	67	1537475	893.9020244	ppb		99
109) Cyclohexane	3.994	56	238192	17.6601089	ppb		99
110) tert-butyl formate	4.262	59	250155	180.2407853	ppb		100
111) ISOBUTANOL	4.414	43	413306	1815.7177965	ppb	#	100
112) t-Amyl Alcohol	4.481	59	33284	88.0827599	ppb		93
113) TERT-AMYL METHYL ETHER	4.389	73	267099	17.4468076	ppb	#	98
115) N-BUTANOL	4.815	56	375957	3755.2359954	ppb		99
116) Methyl Cyclohexane	4.688	83	232027	17.7729204	ppb		100
117) 2-nitropropane	5.703	43	100237	87.9585269	ppb		99
118) METHYL METHACRYLATE	5.077	41	336570	87.3200862	ppb		99
119) 1,4-DIOXANE	5.144	88	100912	1862.5944076	ppb		98
120) n-octane	5.393	85	95163	17.9029219	ppb		96
121) 3,3-DIMETHYL-1-BUTANOL	6.269	57	82693	185.8271259	ppb		98
123) ETHYL METHACRYLATE	5.868	69	442396	86.8149251	ppb		93
124) CIS-1,4-DICHLORO-2-BUTENE	7.431	53	112922	87.3733376	ppb		98
125) Cyclohexanone	7.699	55	129144	162.4122138	ppb		100
126) PENTACHLOROETHANE	7.900	117	251447	97.6314580	ppb		99
127) Hexachloroethane	8.569	117	67833	17.0115590	ppb		97

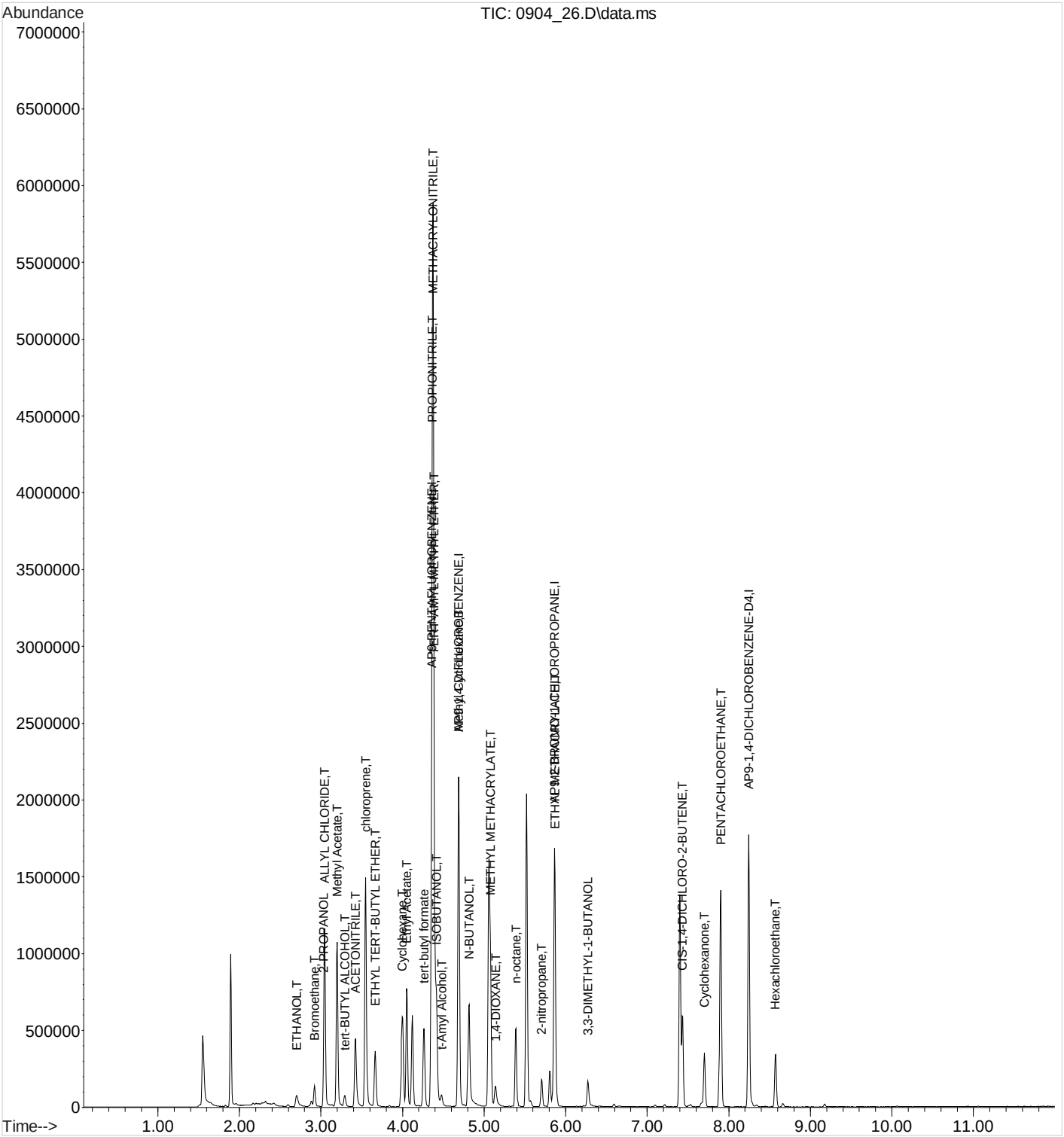
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 26.D
Acq On : 5 Sep 2015 2:17 am
Operator : 591
Sample : STD VMS 17.5 ppb 15H20824
Misc : water 15G07402
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Sep 07 14:19:10 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:15:02 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 27.D
Acq On : 5 Sep 2015 2:40 am
Operator : 591
Sample : STD VMS 20 ppb 15H20824
Misc : water 15G07402
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 07 14:19:30 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:15:02 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	0.000	168	0m	40.0000000	ppb		-4.36
41) 8260-1,4-DIFLUOROBENZENE	0.000	114	0m	40.0000000	ppb		-4.69
53) 8260-2-BROMO-1-CHLOROP...	0.000	79	0m	40.0000000	ppb		-5.86
84) 8260-1,4-DICHLOROBENZE...	0.000	152	0m	40.0000000	ppb		-8.25
96) AP9-PENTAFLUOROBENZENE	4.359	168	576888	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	966758	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.856	79	144891	40.0000000	ppb		0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	415018	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.000	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 79 - 121		Recovery =	0.00%#			
46) a,a,a-Trifluorotoluene	0.000	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 116		Recovery =	0.00%#			
50) TOLUENE-D8	0.000	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 90 - 115		Recovery =	0.00%#			
68) 4-BROMOFLUOROBENZENE	0.000	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 80 - 120		Recovery =	0.00%#			
Target Compounds							Qvalue
97) ETHANOL	2.704	45	117748	2000.0000000	ppb		100
98) Bromoethane	2.923	108	95582	20.0000000	ppb		100
99) 2-PROPANOL	3.039	45	30190	100.0000000	ppb		100
100) Methyl Acetate	3.197	43	1157331	400.0000000	ppb	#	100
101) ACETONITRILE	3.422	41	489660	1000.0000000	ppb		100
102) ALLYL CHLORIDE	3.045	76	260576	100.0000000	ppb		100
103) tert-BUTYL ALCOHOL	3.295	59	89091	100.0000000	ppb		100
104) chloroprene	3.550	53	783164	100.0000000	ppb		100
105) ETHYL TERT-BUTYL ETHER	3.666	59	299616	20.0000000	ppb		100
106) PROPIONITRILE	4.365	54	546525	1000.0000000	ppb		100
107) Ethyl Acetate	4.049	43	744872	200.0000000	ppb		100
108) METHACRYLONITRILE	4.377	67	1722545	1000.0000000	ppb		100
109) Cyclohexane	3.994	56	270157	20.0000000	ppb		100
110) tert-butyl formate	4.262	59	277996	200.0000000	ppb		100
111) ISOBUTANOL	4.414	43	455938	2000.0000000	ppb	#	100
112) t-Amyl Alcohol	4.475	59	37844	100.0000000	ppb		100
113) TERT-AMYL METHYL ETHER	4.390	73	306647	20.0000000	ppb	#	100
115) N-BUTANOL	4.809	56	400390	4000.0000000	ppb		100
116) Methyl Cyclohexane	4.688	83	261055	20.0000000	ppb		100
117) 2-nitropropane	5.704	43	113939	100.0000000	ppb		100
118) METHYL METHACRYLATE	5.077	41	385375	100.0000000	ppb		100
119) 1,4-DIOXANE	5.138	88	108337	2000.0000000	ppb		100
120) n-octane	5.393	85	106291	20.0000000	ppb		100
121) 3,3-DIMETHYL-1-BUTANOL	6.269	57	88984	200.0000000	ppb		100
123) ETHYL METHACRYLATE	5.868	69	504957	100.0000000	ppb		100
124) CIS-1,4-DICHLORO-2-BUTENE	7.431	53	128067	100.0000000	ppb		100
125) Cyclohexanone	7.699	55	157588	200.0000000	ppb		100
126) PENTACHLOROETHANE	7.900	117	255208	100.0000000	ppb		100
127) Hexachloroethane	8.569	117	79025	20.0000000	ppb		100

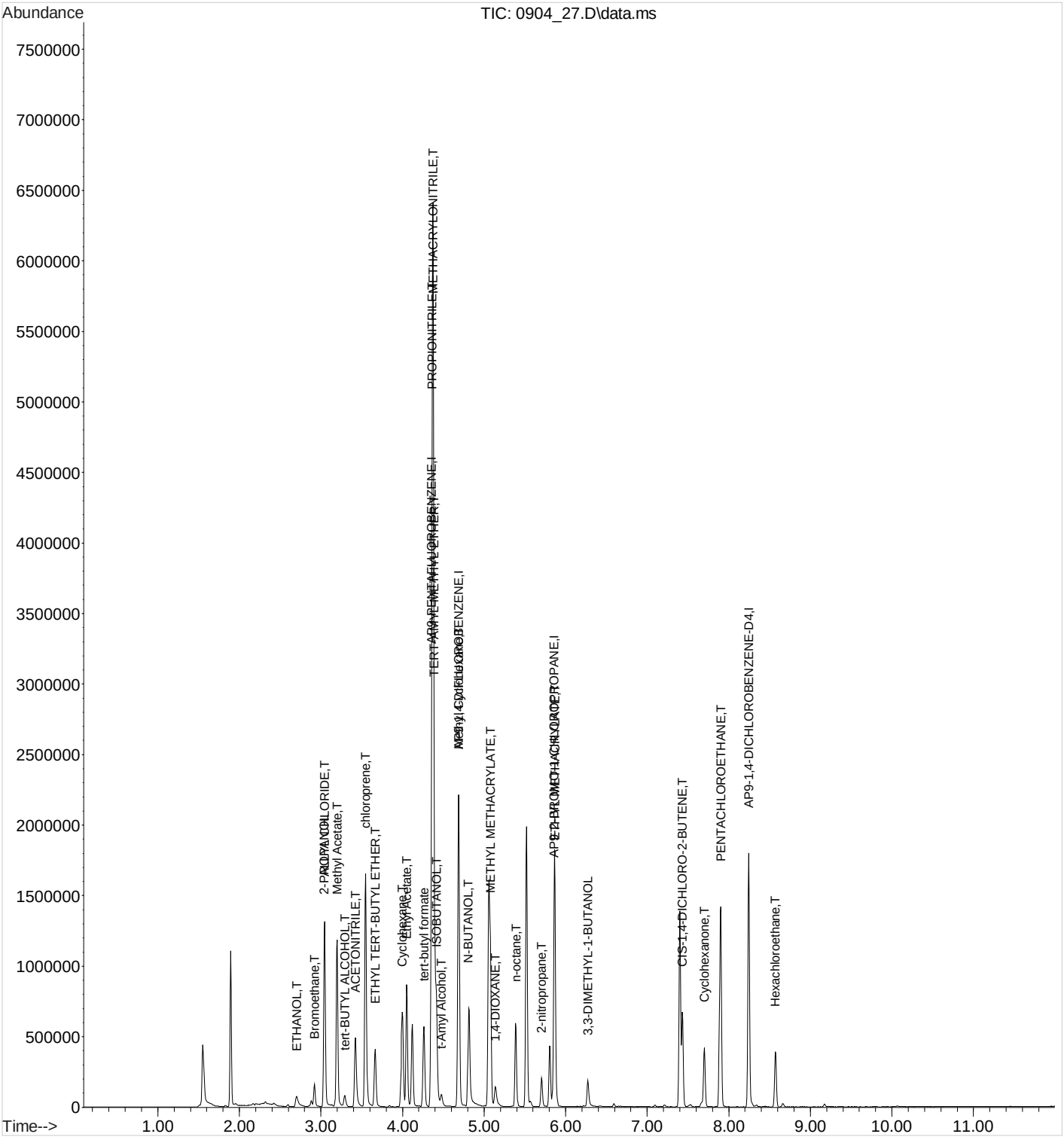
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 27.D
Acq On : 5 Sep 2015 2:40 am
Operator : 591
Sample : STD VMS 20 ppb 15H20824
Misc : water 15G07402
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Sep 07 14:19:30 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:15:02 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 32.D
Acq On : 5 Sep 2015 4:33 am
Operator : 591
Sample : STD GROMS .4 ppm 15H18659
Misc : water 15G07402
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 07 14:24:46 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.359	168	617382	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1031495	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.856	79	154424	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	441012	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.359	168	617382	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	1031495	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.856	79	154424	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	441012	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.122	111	312301	41.3532950	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.38%				
46) a,a,a-Trifluorotoluene	5.059	146	553440	41.3716297	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.43%				
50) TOLUENE-D8	5.521	98	1199466	41.3909393	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 103.48%				
68) 4-BROMOFLUOROBENZENE	7.401	95	444823	41.4747853	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.69%				
Target Compounds							Qvalue
7) 1,3-BUTADIENE	1.950	39	1874	0.3569795	ppb	#	1
8) BROMOMETHANE	2.206	94	2077	0.6994182	ppb	#	69
13) ACROLEIN	2.954	56	15730	18.7261555	ppb	#	24
16) ACETONE	3.100	43	21479	9.7748014	ppb	#	76
17) IODOMETHANE	2.856	142	3098	0.4410486	ppb	#	86
20) ACRYLONITRILE	3.611	53	3762	2.3202944	ppb	#	40
21) n-Hexane	3.240	56	58046	10.6257825	ppb	#	62
29) 2-BUTANONE (MEK)	4.183	43	11277	4.1741790	ppb	#	61
31) TETRAHYDROFURAN	4.122	42	1077	0.7716157	ppb	#	17
37) 2,2,4-TRIMETHYLPENTANE	4.256	41	64783	10.6589835	ppb		97
38) HEPTANE	4.292	43	42550	4.6439181	ppb	#	92
39) BENZENE	4.359	78	104765	4.5620231	ppb	#	92
43) 1,2-DICHLOROPROPANE	5.059	62	9475	2.3083923	ppb	#	24
49) 4-METHYL-2-PENTANONE (...	5.734	43	4721	1.0794968	ppb	#	34
51) TOLUENE	5.551	91	841980	34.5466249	ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.856	75	7163	0.9179979	ppb	#	1
54) 1,1,2-TRICHLOROETHANE	5.917	97	1647	0.3546979	ppb	#	1
57) 2-HEXANONE	6.312	58	620	0.3335577	ppb	#	41
62) ETHYLBENZENE	6.555	106	67209	7.8553127	ppb		100
63) M&P-XYLENE	6.647	106	297386	28.2482374	ppb		99
64) O-XYLENE	6.957	106	119261	11.6534697	ppb		98
67) Isopropylbenzene	7.176	105	19222	0.7119097	ppb		97
70) 1,1,2,2-TETRACHLOROETHANE	7.498	83	2108	0.3536207	ppb	#	26
72) TRANS-1,4-DICHLORO-2-B...	7.784	53	1296	0.8721472	ppb	#	62
73) n-Propylbenzene	7.480	91	72409	2.2804420	ppb		99
74) 4-ETHYLTOLUENE	7.541	105	286671	10.6586121	ppb		98
76) 4-Chlorotoluene	7.784	91	9718	0.5025470	ppb	#	49
77) 1,3,5-Trimethylbenzene	7.614	105	79246	3.6027520	ppb		99
78) tert-Butylbenzene	7.912	119	34377	1.8930466	ppb	#	70
79) 1,2,4-Trimethylbenzene	7.912	105	284480	12.9169981	ppb		99
82) p-Isopropyltoluene	8.070	119	10818	0.4545465	ppb		96
86) 1,2,3-TRIMETHYLBENZENE	8.259	105	75308	2.8824732	ppb		95
88) n-Butylbenzene	8.429	91	11446	0.4707408	ppb		94

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 32.D
Acq On : 5 Sep 2015 4:33 am
Operator : 591
Sample : STD GROMS .4 ppm 15H18659
Misc : water 15G07402
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 07 14:24:46 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
92)	Naphthalene	10.059	128	15661	0.9536660	ppb	#	82
94)	1-Methylnaphthalene	10.923	142	6916	1.1180297	ppb	#	91
95)	2-Methylnaphthalene	11.057	142	4234	0.7900970	ppb		94
97)	ETHANOL	2.692	45	2544	38.9250308	ppb	#	63
100)	Methyl Acetate	3.240	43	60376	19.1256592	ppb	#	51
101)	ACETONITRILE	3.422	41	4975	9.5199032	ppb	#	52
106)	PROPIONITRILE	4.402	54	1006	1.6929226	ppb	#	21
107)	Ethyl Acetate	4.055	43	60810	15.2014198	ppb	#	25
108)	METHACRYLONITRILE	4.353	67	3365	1.7941424	ppb	#	1
109)	Cyclohexane	4.018	56	45982	3.1297199	ppb	#	40
111)	ISOBUTANOL	4.402	43	868	3.5135571	ppb	#	71
115)	N-BUTANOL	4.791	56	6110	61.3713828	ppb	#	64
116)	Methyl Cyclohexane	4.688	83	39883	2.0855584	ppb	#	68
117)	2-nitropropane	5.673	43	2917	2.4063023	ppb		92
118)	METHYL METHACRYLATE	5.034	41	28886	6.9393176	ppb	#	13
119)	1,4-DIOXANE	5.144	88	2477	39.4406435	ppb	#	1
120)	n-octane	5.393	85	12606	2.1657605	ppb	#	86
121)	3,3-DIMETHYL-1-BUTANOL	6.288	57	1682	3.4389321	ppb	#	13
123)	ETHYL METHACRYLATE	5.868	69	2167	0.4102158	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.413	53	2068	1.5383773	ppb	#	1
125)	Cyclohexanone	7.669	55	2253	2.8500459	ppb	#	52
126)	PENTACHLOROETHANE	7.912	117	9502	3.2693098	ppb	#	11
127)	Hexachloroethane	8.648	117	4621	1.1471668	ppb	#	1

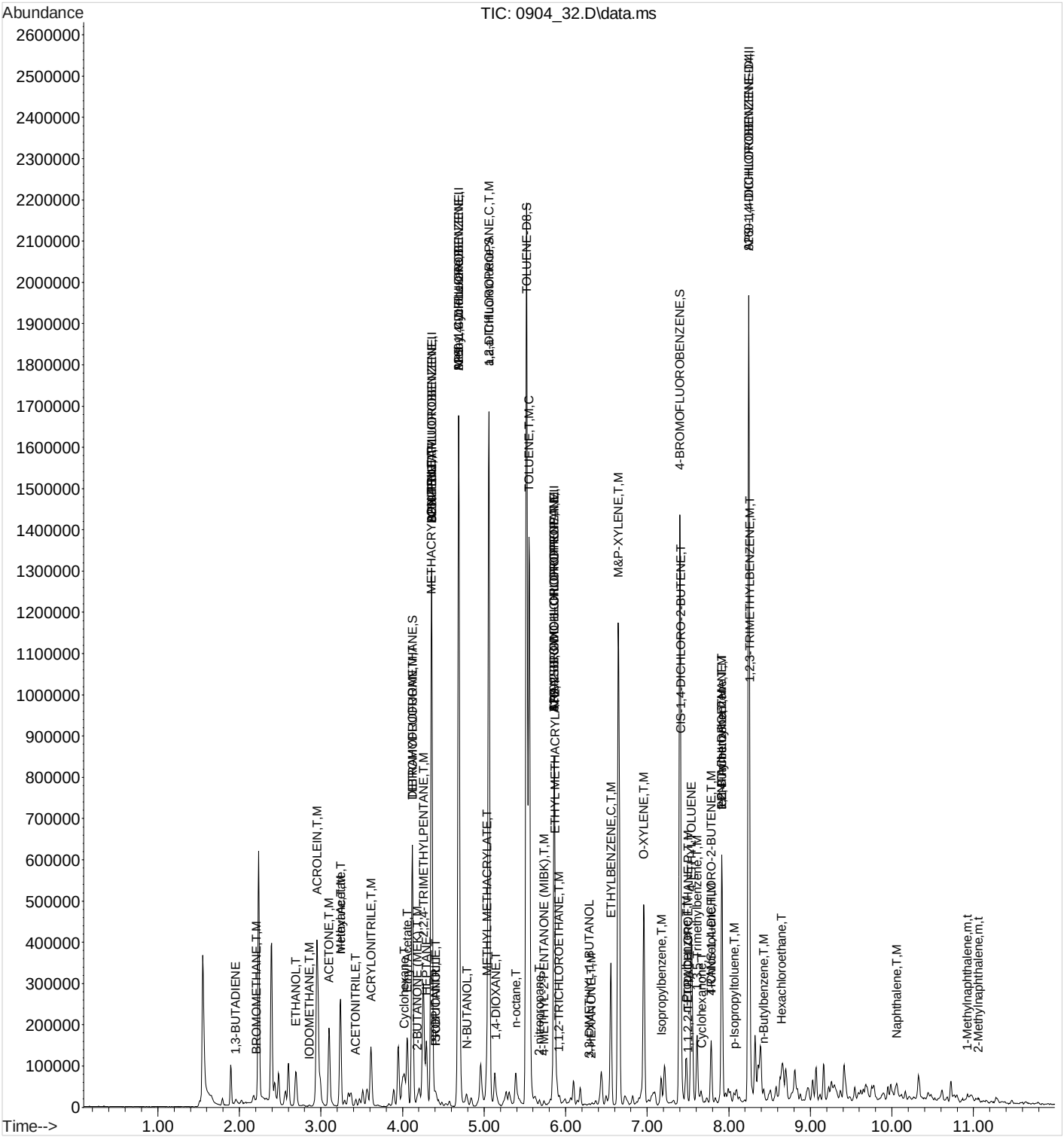
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 32.D
Acq On : 5 Sep 2015 4:33 am
Operator : 591
Sample : STD GROMS .4 ppm 15H18659
Misc : water 15G07402
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 07 14:24:46 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

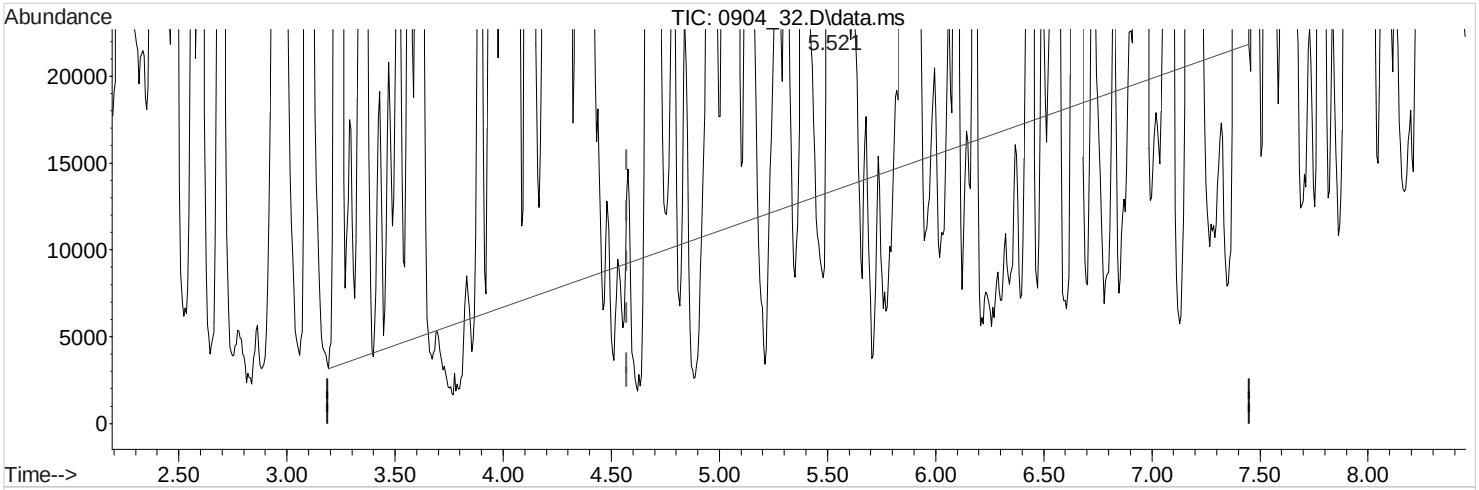


Quantitation Report (Qedit)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 32.D
Acq On : 5 Sep 2015 4:33 am
Operator : 591
Sample : STD GROMS .4 ppm 15H18659
Misc : water 15G07402
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 07 14:24:37 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration



TIC: 0904_32.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

4.570min (0.000) 0.0000000 ppm m

response -1694979

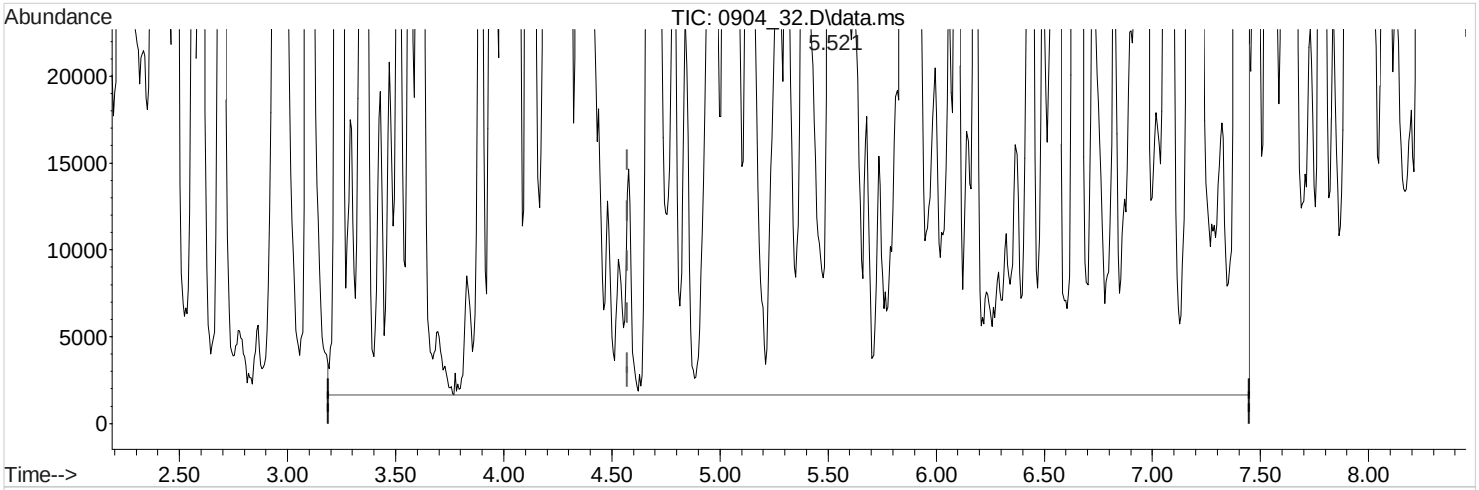
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	-40.57#
0.00	0.00	-15.76#
0.00	0.00	-0.00

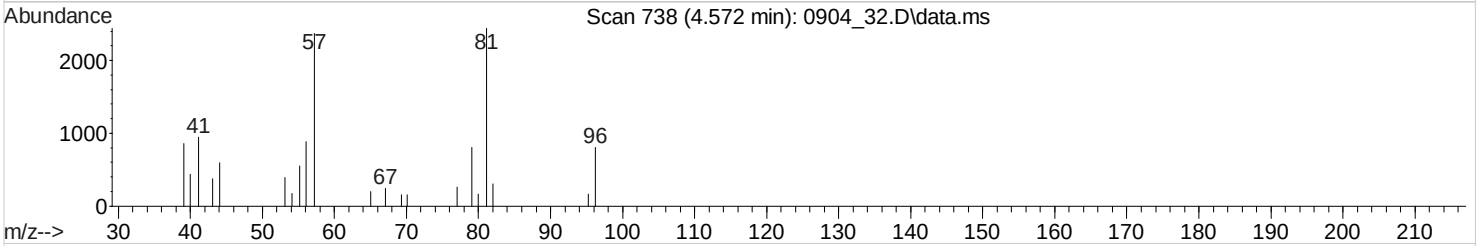
Quantitation Report (Qedit)

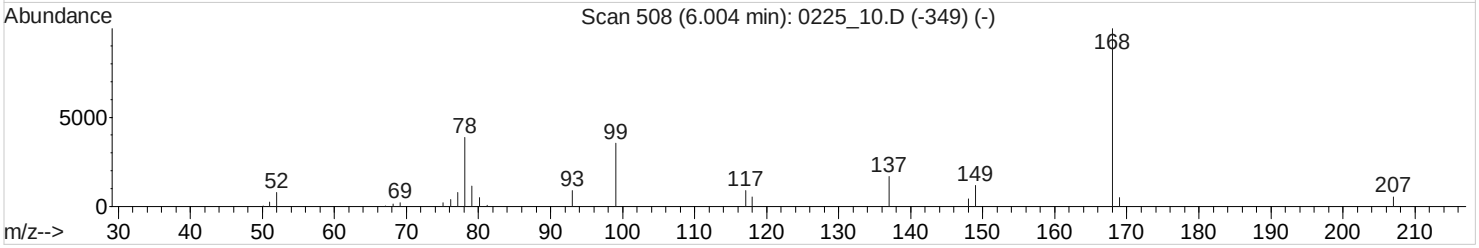
InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 32.D
Acq On : 5 Sep 2015 4:33 am
Operator : 591
Sample : STD GROMS .4 ppm 15H18659
Misc : water 15G07402
ALS Vial : 32 Sample Multiplier: 1

Quant Time: Sep 07 14:24:37 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration







TIC: 0904_32.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

4.570min (0.000) 0.0000000 ppm m

response 5125384

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	13.42#
0.00	0.00	5.21#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 33.D
Acq On : 5 Sep 2015 4:55 am
Operator : 591
Sample : STD GROMS 1 ppm 15H18659
Misc : water 15G07402
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 07 14:25:17 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.359	168	604852	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1024573	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.862	79	156097	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	439763	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.359	168	604852	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	1024573	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.862	79	156097	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	439763	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.122	111	308745	41.7293404	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 104.32%				
46) a,a,a-Trifluorotoluene	5.059	146	552434	41.5754256	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.94%				
50) TOLUENE-D8	5.521	98	1202632	41.7805657	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.45%				
68) 4-BROMOFLUOROBENZENE	7.401	95	451069	41.6063994	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.02%				
Target Compounds							Qvalue
5) CHLOROMETHANE	1.895	50	3993	0.5756883	ppb	#	74
7) 1,3-BUTADIENE	1.956	39	3231	0.6282254	ppb	#	15
8) BROMOMETHANE	2.212	94	958	0.3292841	ppb	#	1
13) ACROLEIN	2.954	56	37762	45.8859506	ppb	#	34
16) ACETONE	3.100	43	59688	27.7259065	ppb	#	81
17) IODOMETHANE	2.857	142	3167	0.4602120	ppb	#	86
20) ACRYLONITRILE	3.611	53	9135	5.7509248	ppb	#	41
21) n-Hexane	3.240	56	138676	25.9116324	ppb	#	64
27) 2,2-Dichloropropane	3.897	77	2922	0.3287886	ppb	#	55
29) 2-BUTANONE (MEK)	4.183	43	23109	8.7309899	ppb	#	55
31) TETRAHYDROFURAN	4.110	42	819	0.5989273	ppb	#	31
32) CHLOROFORM	4.000	83	3417	0.3507436	ppb	#	25
37) 2,2,4-TRIMETHYLPENTANE	4.256	41	166770	28.0077039	ppb		95
38) HEPTANE	4.292	43	105441	11.7462529	ppb	#	94
39) BENZENE	4.359	78	254096	11.2938998	ppb		98
43) 1,2-DICHLOROPROPANE	5.053	62	9809	2.4059099	ppb	#	31
45) BROMODICHLOROMETHANE	5.065	83	3583	0.4634983	ppb	#	1
49) 4-METHYL-2-PENTANONE (...	5.734	43	10113	2.3280461	ppb	#	34
51) TOLUENE	5.552	91	2043485	84.4110929	ppb		100
52) TRANS-1,3-DICHLOROPROPENE	5.856	75	7515	0.9696163	ppb	#	1
54) 1,1,2-TRICHLOROETHANE	5.910	97	2608	0.5556392	ppb	#	1
57) 2-HEXANONE	6.306	58	720	0.3832057	ppb		100
62) ETHYLBENZENE	6.555	106	165374	19.1215685	ppb		100
63) M&P-XYLENE	6.647	106	709942	66.7135339	ppb		100
64) O-XYLENE	6.957	106	289126	27.9488662	ppb		100
65) STYRENE	6.957	104	15267	0.9133139	ppb	#	1
67) Isopropylbenzene	7.176	105	47366	1.7354547	ppb	#	96
69) Bromobenzene	7.474	77	6420	0.5568828	ppb	#	25
71) 1,2,3-TRICHLOROPROPANE	7.644	110	616	0.4021819	ppb	#	18
72) TRANS-1,4-DICHLORO-2-B...	7.656	53	677	0.4507064	ppb	#	18
73) n-Propylbenzene	7.474	91	179667	5.5977699	ppb		99
74) 4-ETHYLTOLUENE	7.541	105	690049	25.3814872	ppb		97
76) 4-Chlorotoluene	7.784	91	23522	1.2033563	ppb	#	49

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 33.D
Acq On : 5 Sep 2015 4:55 am
Operator : 591
Sample : STD GROMS 1 ppm 15H18659
Misc : water 15G07402
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 07 14:25:17 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

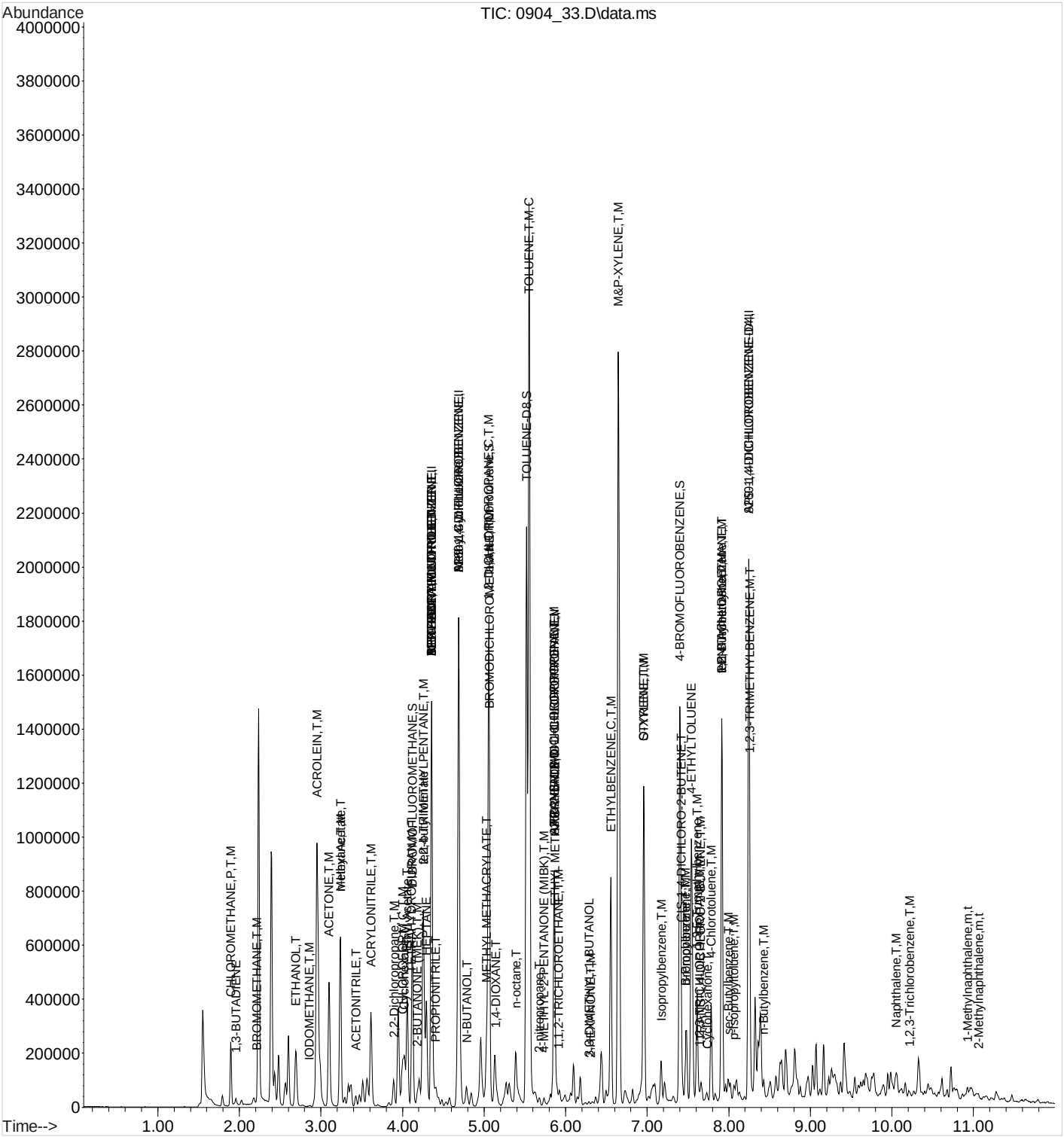
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
77)	1,3,5-Trimethylbenzene	7.614	105	192329	8.6501181	ppb		99
78)	tert-Butylbenzene	7.912	119	81352	4.4318170	ppb	#	72
79)	1,2,4-Trimethylbenzene	7.912	105	687992	30.9039140	ppb		99
80)	sec-Butylbenzene	7.997	105	18003	0.6118090	ppb	#	75
82)	p-Isopropyltoluene	8.064	119	26690	1.1094305	ppb		96
86)	1,2,3-TRIMETHYLBENZENE	8.259	105	173855	7.7666993	ppb		98
88)	n-Butylbenzene	8.429	91	23961	0.9882452	ppb	#	94
92)	Naphthalene	10.053	128	36303	2.2169252	ppb	#	91
93)	1,2,3-Trichlorobenzene	10.218	180	1926	0.3026676	ppb	#	12
94)	1-Methylnaphthalene	10.929	142	16856	2.7326536	ppb		98
95)	2-Methylnaphthalene	11.063	142	8260	1.5457574	ppb	#	90
97)	ETHANOL	2.692	45	3924	61.2838017	ppb	#	87
100)	Methyl Acetate	3.240	43	147570	47.7150074	ppb	#	51
101)	ACETONITRILE	3.428	41	12243	23.9128939	ppb	#	49
106)	PROPIONITRILE	4.402	54	2540	4.3629243	ppb	#	21
107)	Ethyl Acetate	4.055	43	143733	36.6750303	ppb	#	21
108)	METHACRYLONITRILE	4.359	67	1733	0.9431380	ppb	#	1
109)	Cyclohexane	4.019	56	112457	7.8128404	ppb	#	70
110)	tert-butyl formate	4.256	59	532	0.3811145	ppb	#	1
113)	TERT-AMYL METHYL ETHER	4.359	73	5429	0.3306149	ppb	#	1
115)	N-BUTANOL	4.791	56	13719	138.7303157	ppb	#	55
116)	Methyl Cyclohexane	4.688	83	80034	5.1041669	ppb	#	53
117)	2-nitropropane	5.673	43	7441	6.1797269	ppb	#	72
118)	METHYL METHACRYLATE	5.028	41	74197	17.9448538	ppb	#	13
119)	1,4-DIOXANE	5.144	88	2874	46.0711412	ppb	#	1
120)	n-octane	5.393	85	31655	5.4751960	ppb		95
121)	3,3-DIMETHYL-1-BUTANOL	6.288	57	3011	6.1977291	ppb	#	33
123)	ETHYL METHACRYLATE	5.868	69	5962	1.1165178	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.419	53	4431	3.2608762	ppb	#	1
125)	Cyclohexanone	7.736	55	2372	2.9684216	ppb	#	44
126)	PENTACHLOROETHANE	7.912	117	23402	7.9655225	ppb	#	11

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

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 33.D
Acq On : 5 Sep 2015 4:55 am
Operator : 591
Sample : STD GROMS 1 ppm 15H18659
Misc : water 15G07402
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 07 14:25:17 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

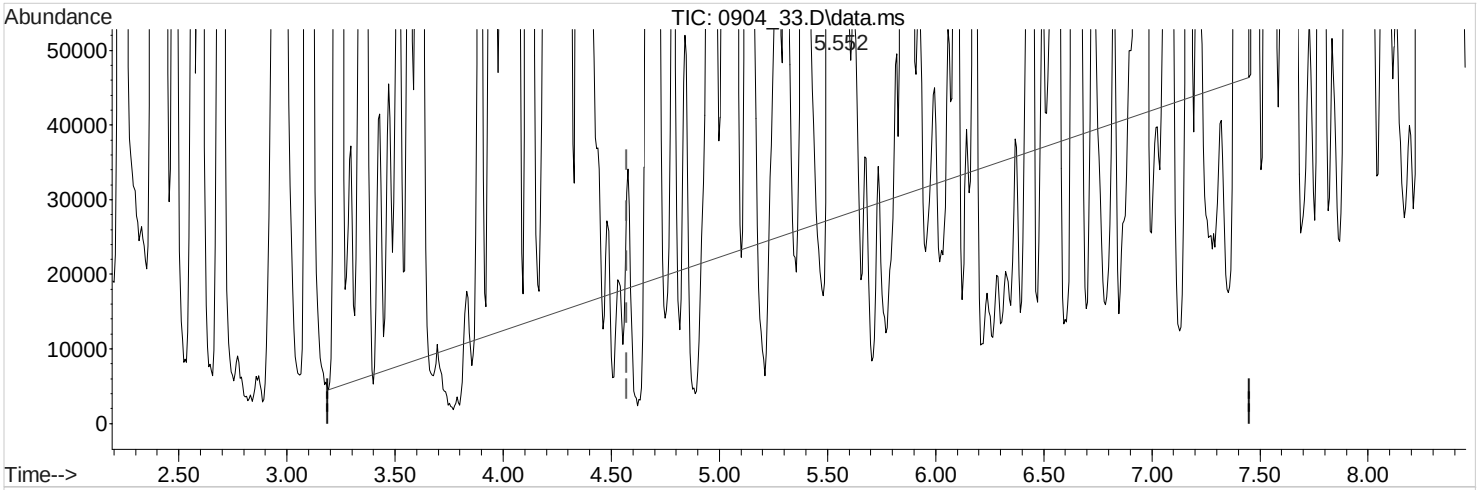


Quantitation Report (Qedit)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 33.D
Acq On : 5 Sep 2015 4:55 am
Operator : 591
Sample : STD GROMS 1 ppm 15H18659
Misc : water 15G07402
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 07 14:25:07 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration



TIC: 0904_33.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

4.570min (0.000) 0.0000000 ppm m

response 4668117

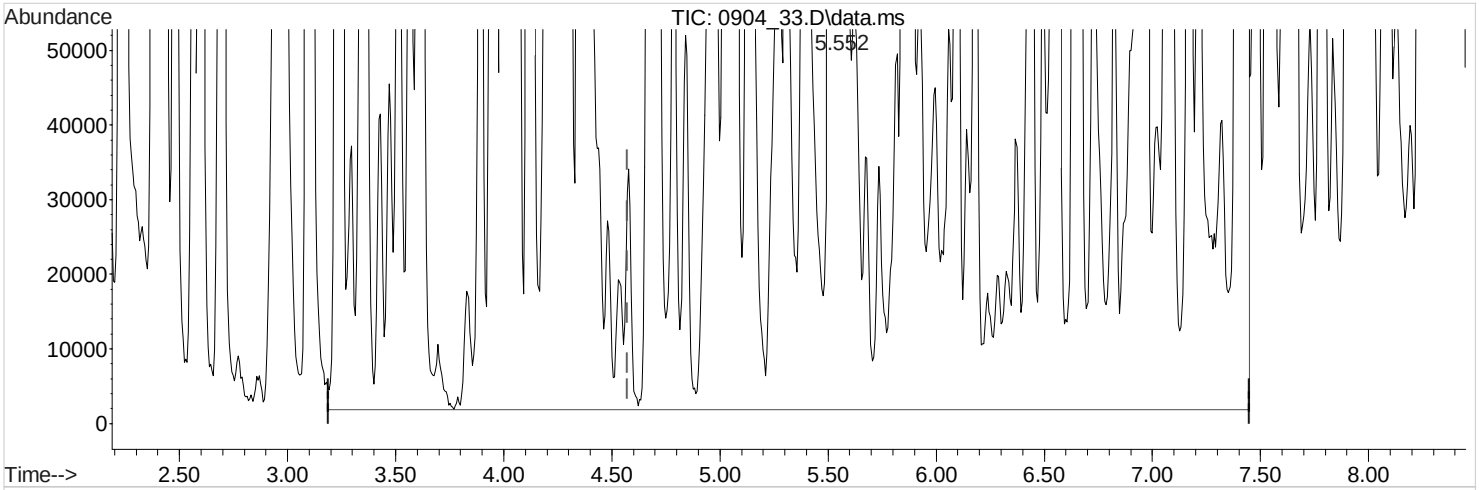
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	14.67#
0.00	0.00	5.75#
0.00	0.00	0.00

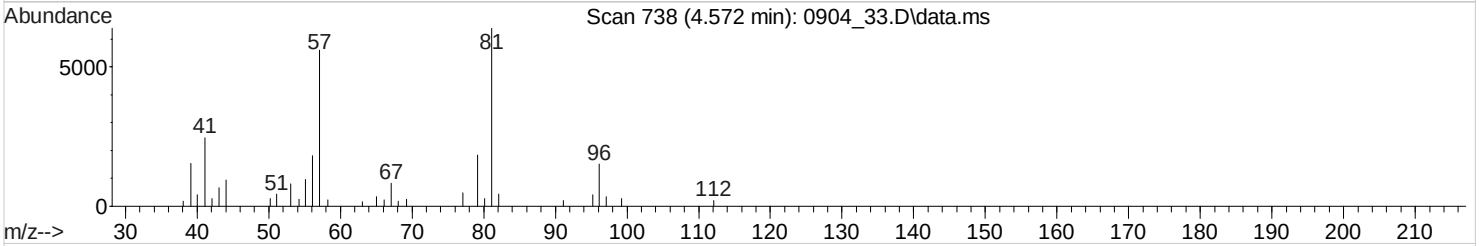
Quantitation Report (Qedit)

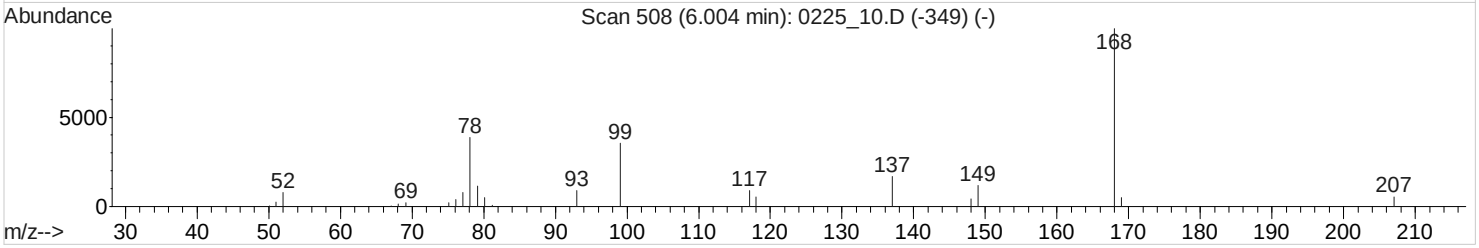
InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 33.D
Acq On : 5 Sep 2015 4:55 am
Operator : 591
Sample : STD GROMS 1 ppm 15H18659
Misc : water 15G07402
ALS Vial : 33 Sample Multiplier: 1

Quant Time: Sep 07 14:25:07 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration







TIC: 0904_33.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

4.570min (0.000) 0.0000000 ppm m

response 19834475

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	3.45#
0.00	0.00	1.35#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 34.D
Acq On : 5 Sep 2015 5:18 am
Operator : 591
Sample : STD GROMS 2 ppm 15H18659
Misc : water 15G07402
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Sep 07 14:25:46 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.359	168	590497	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1015556	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.856	79	152598	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	436451	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.359	168	590497	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	1015556	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.856	79	152598	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	436451	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.122	111	299635	41.4825603	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.71%				
46) a,a,a-Trifluorotoluene	5.059	146	547965	41.6052518	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 104.01%				
50) TOLUENE-D8	5.521	98	1195360	41.8966511	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.74%				
68) 4-BROMOFLUOROBENZENE	7.401	95	447762	42.2483840	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 105.62%				
Target Compounds							Qvalue
3) PROPENE	1.658	41	2040	0.3035466	ppb		95
5) CHLOROMETHANE	1.895	50	7103	1.0489659	ppb	#	75
7) 1,3-BUTADIENE	1.956	39	6042	1.2033464	ppb	#	10
8) BROMOMETHANE	2.206	94	1254	0.4415036	ppb	#	78
13) ACROLEIN	2.954	56	74576	92.8229265	ppb	#	28
16) ACETONE	3.100	43	115631	55.0179538	ppb	#	78
17) IODOMETHANE	2.850	142	3271	0.4868799	ppb	#	87
20) ACRYLONITRILE	3.611	53	17461	11.2597741	ppb	#	41
21) n-Hexane	3.240	56	283973	54.3502996	ppb	#	63
25) VINYL ACETATE	3.696	43	4511	0.5313302	ppb	#	74
29) 2-BUTANONE (MEK)	4.189	43	44331	17.1562074	ppb	#	56
31) TETRAHYDROFURAN	4.122	42	1339	1.0030029	ppb	#	1
32) CHLOROFORM	4.000	83	8131	0.8549095	ppb	#	25
37) 2,2,4-TRIMETHYLPENTANE	4.256	41	312726	53.7966204	ppb		91
38) HEPTANE	4.292	43	216971	24.7584212	ppb	#	96
39) BENZENE	4.359	78	522341	23.7810837	ppb		99
44) DIBROMOMETHANE	4.980	93	1042	0.3236155	ppb	#	1
45) BROMODICHLOROMETHANE	5.059	83	6267	0.8178998	ppb	#	1
49) 4-METHYL-2-PENTANONE (...	5.734	43	21718	5.0439461	ppb	#	39
51) TOLUENE	5.552	91	4083947	170.1951567	ppb		98
52) TRANS-1,3-DICHLOROPROPENE	5.856	75	7508	0.9773143	ppb	#	1
54) 1,1,2-TRICHLOROETHANE	5.910	97	5841	1.2729702	ppb	#	1
57) 2-HEXANONE	6.312	58	1473	0.8019512	ppb		76
62) ETHYLBENZENE	6.555	106	343789	40.6624905	ppb		97
63) M&P-XYLENE	6.653	106	1464474	140.7727055	ppb		98
64) O-XYLENE	6.957	106	592322	58.5707284	ppb		98
65) STYRENE	6.957	104	31018	1.8981297	ppb	#	1
67) Isopropylbenzene	7.176	105	96630	3.6216315	ppb		99
69) Bromobenzene	7.480	77	13608	1.2074491	ppb	#	25
70) 1,1,2,2-TETRACHLOROETHANE	7.504	83	8274	1.4045865	ppb	#	47
71) 1,2,3-TRICHLOROPROPANE	7.644	110	865	0.5777017	ppb	#	18
72) TRANS-1,4-DICHLORO-2-B...	7.736	53	749	0.5100733	ppb	#	18
73) n-Propylbenzene	7.480	91	376461	11.9980989	ppb		99

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 34.D
Acq On : 5 Sep 2015 5:18 am
Operator : 591
Sample : STD GROMS 2 ppm 15H18659
Misc : water 15G07402
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Sep 07 14:25:46 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	4-ETHYLTOLUENE	7.541	105	1438702	54.1319532	ppb		97
76)	4-Chlorotoluene	7.784	91	48044	2.5142292	ppb	#	50
77)	1,3,5-Trimethylbenzene	7.614	105	406622	18.7074180	ppb		99
79)	1,2,4-Trimethylbenzene	7.912	105	1421877	65.3337885	ppb		100
80)	sec-Butylbenzene	7.997	105	38360	1.3335070	ppb	#	75
82)	p-Isopropyltoluene	8.070	119	55880	2.3760395	ppb		94
86)	1,2,3-TRIMETHYLBENZENE	8.259	105	353329	16.7752534	ppb		100
88)	n-Butylbenzene	8.429	91	52356	2.1757523	ppb		99
92)	Naphthalene	10.059	128	76723	4.7208184	ppb	#	83
93)	1,2,3-Trichlorobenzene	10.224	180	2197	0.3478747	ppb	#	12
94)	1-Methylnaphthalene	10.923	142	37166	6.0709839	ppb		96
95)	2-Methylnaphthalene	11.063	142	17819	3.3599113	ppb	#	95
97)	ETHANOL	2.692	45	8144	130.2824421	ppb	#	87
100)	Methyl Acetate	3.240	43	299302	99.1283694	ppb	#	51
101)	ACETONITRILE	3.428	41	23798	47.6119725	ppb	#	46
106)	PROPIONITRILE	4.408	54	4125	7.2577055	ppb	#	21
107)	Ethyl Acetate	4.055	43	390028	101.9391956	ppb	#	40
108)	METHACRYLONITRILE	4.384	67	4613	2.5715299	ppb	#	1
109)	Cyclohexane	4.019	56	229943	16.3634199	ppb	#	70
110)	tert-butyl formate	4.250	59	828	0.6075829	ppb	#	1
111)	ISOBUTANOL	4.390	43	5735	24.2715200	ppb	#	71
113)	TERT-AMYL METHYL ETHER	4.359	73	9021	0.5627152	ppb	#	11
115)	N-BUTANOL	4.785	56	28507	290.8301752	ppb	#	60
116)	Methyl Cyclohexane	4.688	83	159607	11.1527993	ppb	#	51
117)	2-nitropropane	5.673	43	16287	13.6464002	ppb	#	67
118)	METHYL METHACRYLATE	5.034	41	150322	36.6788030	ppb	#	13
119)	1,4-DIOXANE	5.144	88	2917	47.1756254	ppb	#	1
120)	n-octane	5.393	85	66495	11.6034029	ppb		95
121)	3,3-DIMETHYL-1-BUTANOL	6.288	57	6149	12.7692491	ppb	#	46
123)	ETHYL METHACRYLATE	5.862	69	12207	2.3384514	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.419	53	8296	6.2452095	ppb	#	1
125)	Cyclohexanone	7.663	55	7203	9.2208303	ppb	#	72
126)	PENTACHLOROETHANE	7.912	117	48840	17.0052361	ppb	#	11
127)	Hexachloroethane	8.581	117	1923	0.4830987	ppb	#	73

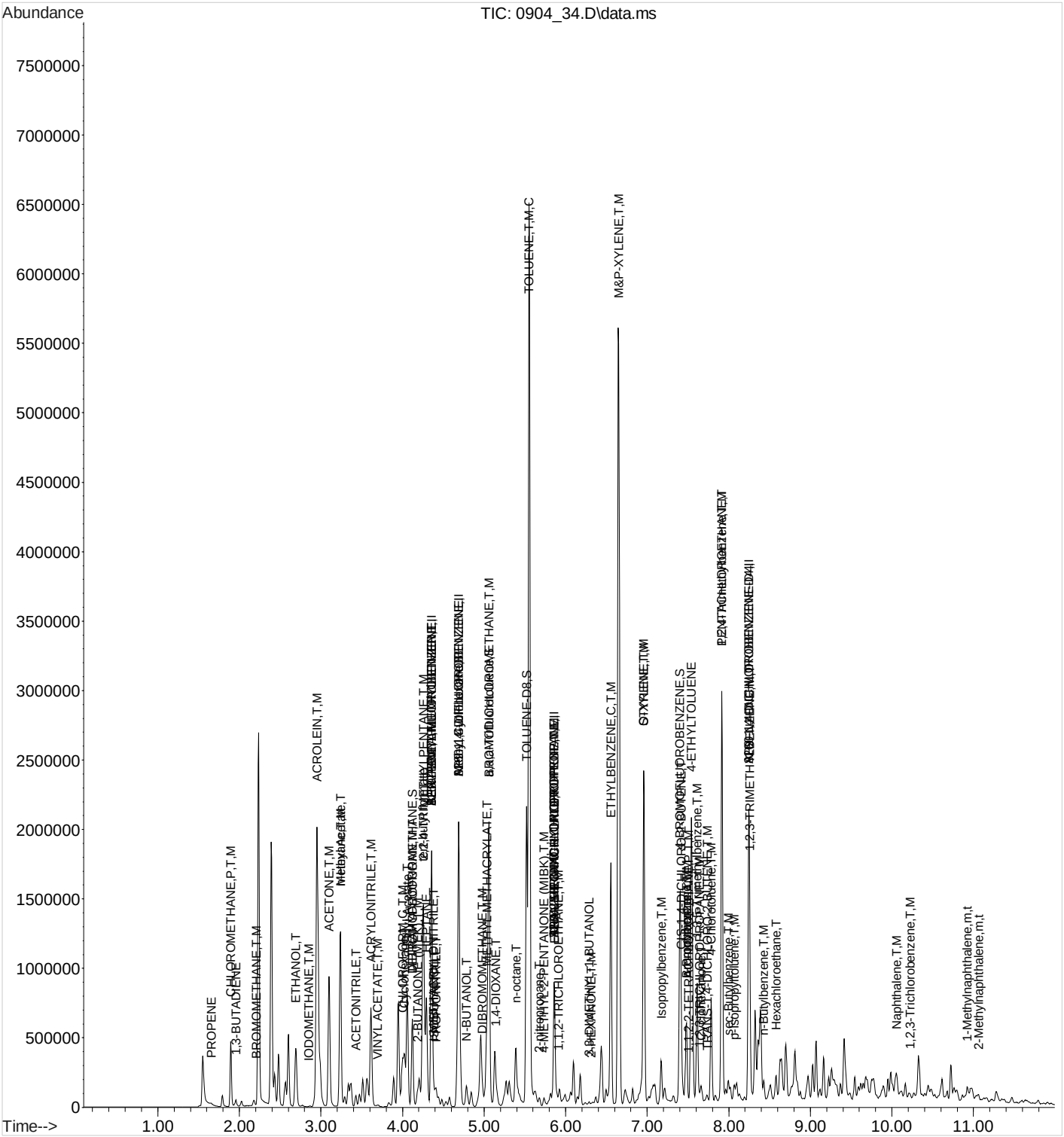
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 34.D
Acq On : 5 Sep 2015 5:18 am
Operator : 591
Sample : STD GROMS 2 ppm 15H18659
Misc : water 15G07402
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Sep 07 14:25:46 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

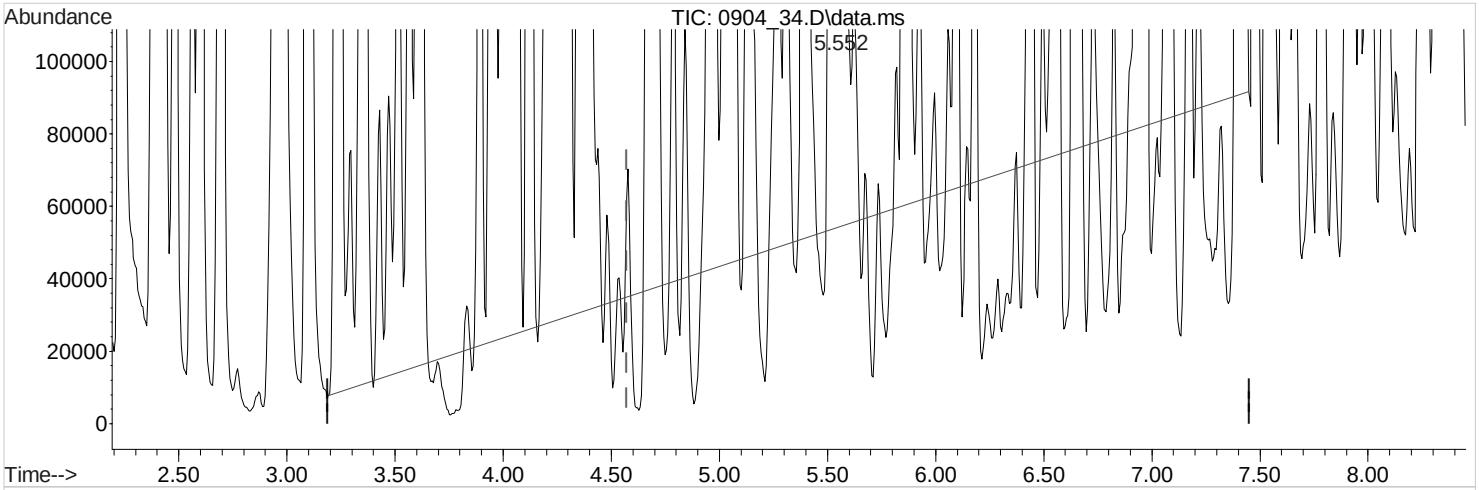


Quantitation Report (Qedit)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 34.D
Acq On : 5 Sep 2015 5:18 am
Operator : 591
Sample : STD GROMS 2 ppm 15H18659
Misc : water 15G07402
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Sep 07 14:25:37 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration



TIC: 0904_34.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

4.570min (0.000) 0.0000000 ppm m

response 17055206

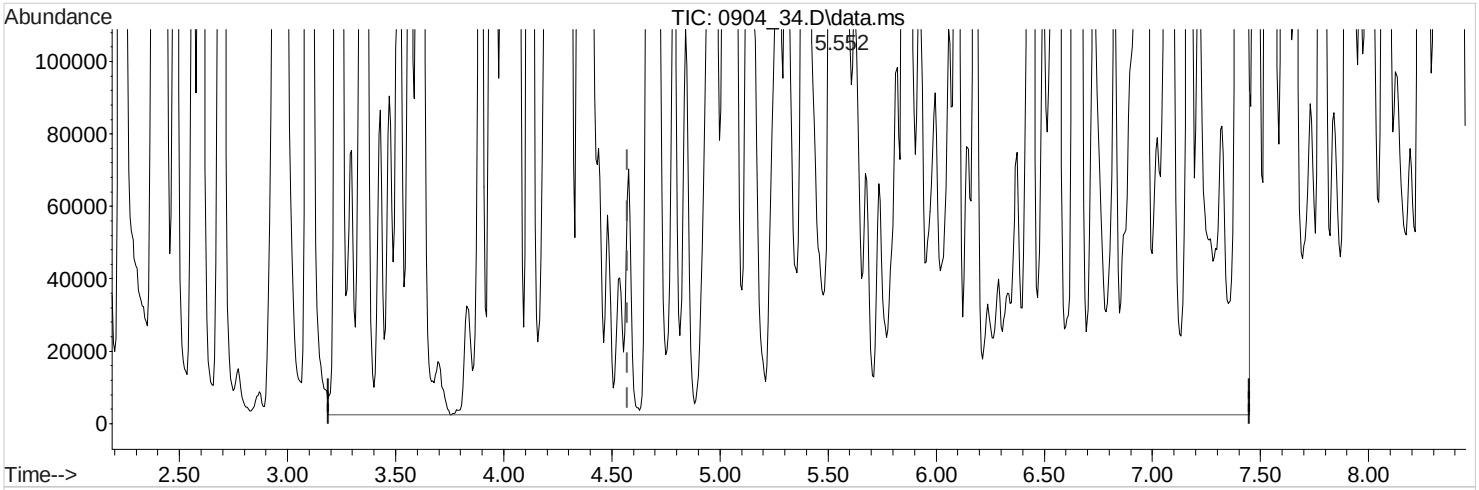
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	3.98#
0.00	0.00	1.59#
0.00	0.00	0.00

Quantitation Report (Qedit)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 34.D
Acq On : 5 Sep 2015 5:18 am
Operator : 591
Sample : STD GROMS 2 ppm 15H18659
Misc : water 15G07402
ALS Vial : 34 Sample Multiplier: 1

Quant Time: Sep 07 14:25:37 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration



TIC: 0904_34.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

4.570min (0.000) 0.0000000 ppm m

response 45564531

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	1.49#
0.00	0.00	0.60#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 35.D
Acq On : 5 Sep 2015 5:40 am
Operator : 591
Sample : STD GROMS 4 ppm 15H18659
Misc : water 15G07402
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Sep 07 14:26:16 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.359	168	578739	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	994927	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.856	79	154824	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.246	152	433157	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.359	168	578739	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	994927	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.856	79	154824	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.246	152	433157	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.122	111	295432	41.7316439	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 104.33%				
46) a,a,a-Trifluorotoluene	5.059	146	535645	41.5130889	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.78%				
50) TOLUENE-D8	5.521	98	1175201	42.0441331	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.11%				
68) 4-BROMOFLUOROBENZENE	7.401	95	450832	41.9264567	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.82%				
Target Compounds							Qvalue
3) PROPENE	1.658	41	2010	0.3111607	ppb		89
5) CHLOROMETHANE	1.895	50	13600	2.0492427	ppb	#	71
7) 1,3-BUTADIENE	1.956	39	11896	2.4173850	ppb	#	12
8) BROMOMETHANE	2.212	94	935	0.3358793	ppb	#	66
11) DICHLOROFLUOROMETHANE	2.437	67	3450	0.3478330	ppb	#	1
13) ACROLEIN	2.954	56	142942	181.5310716	ppb	#	29
16) ACETONE	3.100	43	219810	106.7118245	ppb	#	77
17) IODOMETHANE	2.863	142	3067	0.4657898	ppb	#	83
20) ACRYLONITRILE	3.611	53	33322	21.9243421	ppb	#	39
21) n-Hexane	3.240	56	544589	106.3478474	ppb	#	64
25) VINYL ACETATE	3.696	43	8169	0.9817378	ppb	#	74
29) 2-BUTANONE (MEK)	4.183	43	83011	32.7781435	ppb	#	53
31) TETRAHYDROFURAN	4.128	42	2170	1.6585032	ppb	#	1
32) CHLOROFORM	4.000	83	19940	2.1391256	ppb	#	36
37) 2,2,4-TRIMETHYLPENTANE	4.256	41	632460	111.0092102	ppb		99
38) HEPTANE	4.292	43	426908	49.7039033	ppb	#	98
39) BENZENE	4.359	78	1011576	46.9905998	ppb		99
43) 1,2-DICHLOROPROPANE	4.986	62	1487	0.3755928	ppb	#	1
45) BROMODICHLOROMETHANE	5.059	83	9757	1.2997785	ppb	#	1
49) 4-METHYL-2-PENTANONE (...	5.734	43	40809	9.6742926	ppb	#	39
51) TOLUENE	5.558	91	7422004	315.7191635	ppb		95
52) TRANS-1,3-DICHLOROPROPENE	5.856	75	7142	0.9489481	ppb	#	1
54) 1,1,2-TRICHLOROETHANE	5.910	97	11418	2.4526277	ppb	#	1
57) 2-HEXANONE	6.281	58	766	0.4110404	ppb	#	7
62) ETHYLBENZENE	6.555	106	660837	77.0383385	ppb		96
63) M&P-XYLENE	6.653	106	2756792	261.1868751	ppb		95
64) O-XYLENE	6.957	106	1130201	110.1511427	ppb		97
65) STYRENE	6.957	104	57625	3.4756305	ppb	#	1
67) Isopropylbenzene	7.176	105	188317	6.9565252	ppb		100
69) Bromobenzene	7.480	77	25323	2.2146252	ppb	#	25
70) 1,1,2,2-TETRACHLOROETHANE	7.504	83	17375	2.9071560	ppb	#	36
71) 1,2,3-TRICHLOROPROPANE	7.638	110	1345	0.8853611	ppb	#	18
72) TRANS-1,4-DICHLORO-2-B...	7.784	53	14297	9.5963534	ppb	#	73

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 35.D
Acq On : 5 Sep 2015 5:40 am
Operator : 591
Sample : STD GROMS 4 ppm 15H18659
Misc : water 15G07402
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Sep 07 14:26:16 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
73)	n-Propylbenzene	7.480	91	723703	22.7333467	ppb		99
74)	4-ETHYLTOLUENE	7.541	105	2726553	101.1130830	ppb		96
76)	4-Chlorotoluene	7.784	91	87000	4.4874076	ppb	#	50
77)	1,3,5-Trimethylbenzene	7.614	105	772556	35.0318850	ppb		100
79)	1,2,4-Trimethylbenzene	7.912	105	2687275	121.7022151	ppb		99
80)	sec-Butylbenzene	7.997	105	71825	2.4609505	ppb	#	73
82)	p-Isopropyltoluene	8.070	119	105848	4.4359891	ppb		94
86)	1,2,3-TRIMETHYLBENZENE	8.259	105	672075	32.9132555	ppb		99
88)	n-Butylbenzene	8.429	91	98118	4.1084861	ppb	#	96
92)	Naphthalene	10.059	128	151812	9.4121313	ppb	#	85
93)	1,2,3-Trichlorobenzene	10.224	180	3729	0.5949430	ppb	#	12
94)	1-Methylnaphthalene	10.929	142	71994	11.8494917	ppb		98
95)	2-Methylnaphthalene	11.063	142	33135	6.2953752	ppb	#	89
97)	ETHANOL	2.698	45	14558	237.6209822	ppb	#	87
100)	Methyl Acetate	3.240	43	579690	195.8930815	ppb	#	51
101)	ACETONITRILE	3.428	41	44491	90.8202780	ppb	#	46
103)	tert-BUTYL ALCOHOL	3.234	59	620	0.6959952	ppb	#	1
104)	chloroprene	3.568	53	3385	0.4218136	ppb	#	21
106)	PROPIONITRILE	4.402	54	6891	12.3706518	ppb	#	1
107)	Ethyl Acetate	4.055	43	530271	141.4093868	ppb	#	18
108)	METHACRYLONITRILE	4.383	67	7213	4.1025983	ppb	#	1
109)	Cyclohexane	4.018	56	461489	33.5081292	ppb	#	42
110)	tert-butyl formate	4.256	59	1890	1.4150506	ppb	#	1
111)	ISOBUTANOL	4.402	43	10080	43.5270296	ppb	#	71
113)	TERT-AMYL METHYL ETHER	4.359	73	17145	1.0912051	ppb	#	32
115)	N-BUTANOL	4.791	56	55048	573.2474792	ppb	#	57
116)	Methyl Cyclohexane	4.688	83	297456	22.0039649	ppb	#	47
117)	2-nitropropane	5.679	43	26671	22.8101934	ppb	#	65
118)	METHYL METHACRYLATE	5.034	41	281818	70.1897988	ppb	#	13
119)	1,4-DIOXANE	5.144	88	2544	41.9962975	ppb	#	1
120)	n-octane	5.393	85	128381	22.8670318	ppb		95
121)	3,3-DIMETHYL-1-BUTANOL	6.281	57	11562	24.5079221	ppb	#	34
123)	ETHYL METHACRYLATE	5.868	69	23677	4.4705055	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.419	53	15508	11.5065365	ppb	#	1
125)	Cyclohexanone	7.735	55	5918	7.4669309	ppb	#	63
126)	PENTACHLOROETHANE	7.912	117	93687	32.1511788	ppb	#	11
127)	Hexachloroethane	8.581	117	3515	0.8703470	ppb	#	80

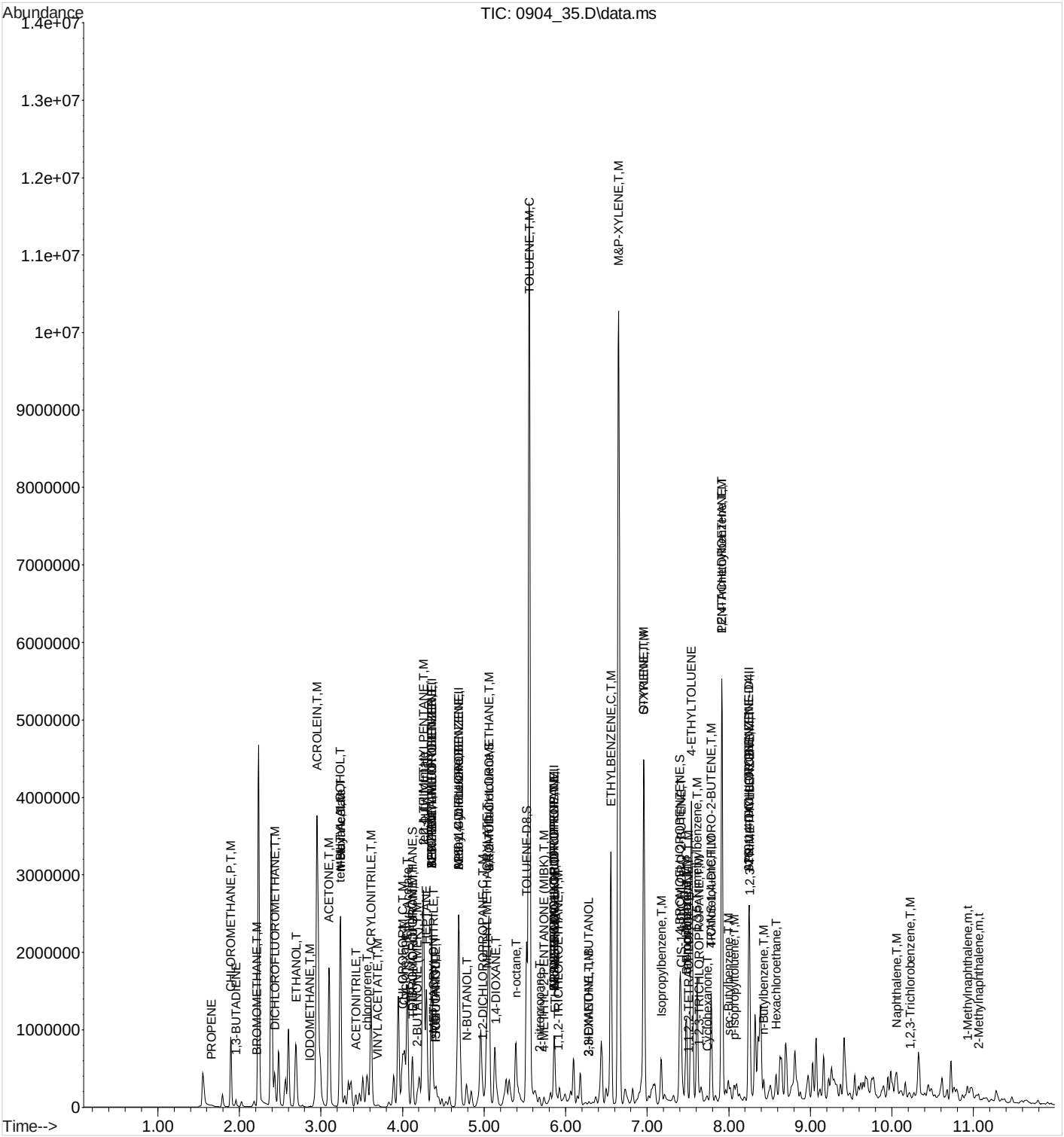
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 35.D
Acq On : 5 Sep 2015 5:40 am
Operator : 591
Sample : STD GROMS 4 ppm 15H18659
Misc : water 15G07402
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Sep 07 14:26:16 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

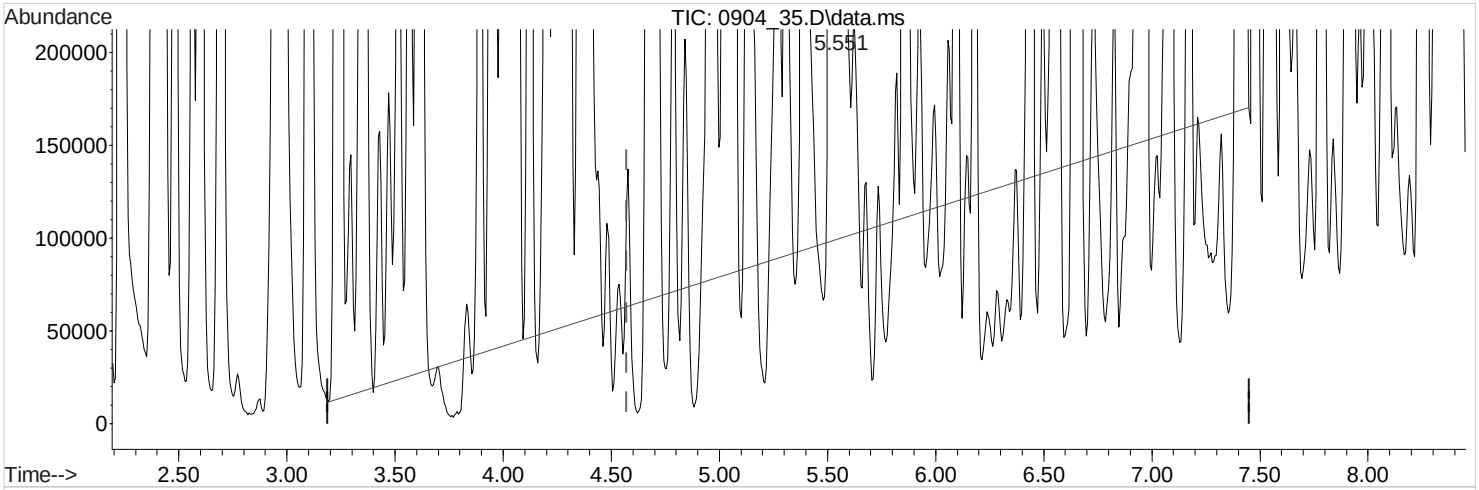


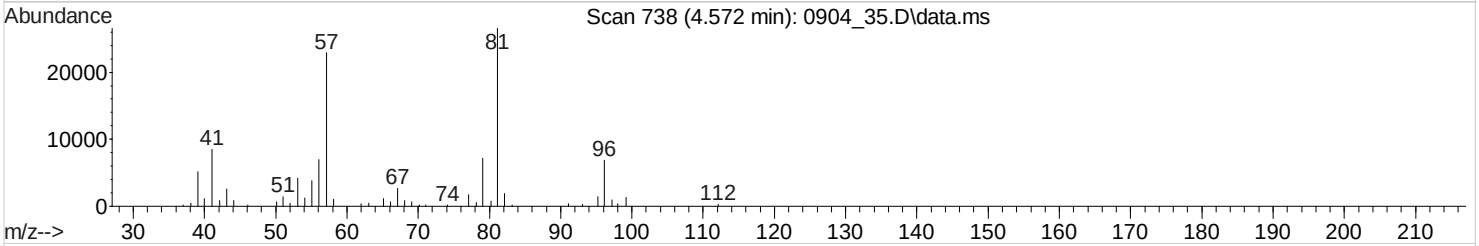
Quantitation Report (Qedit)

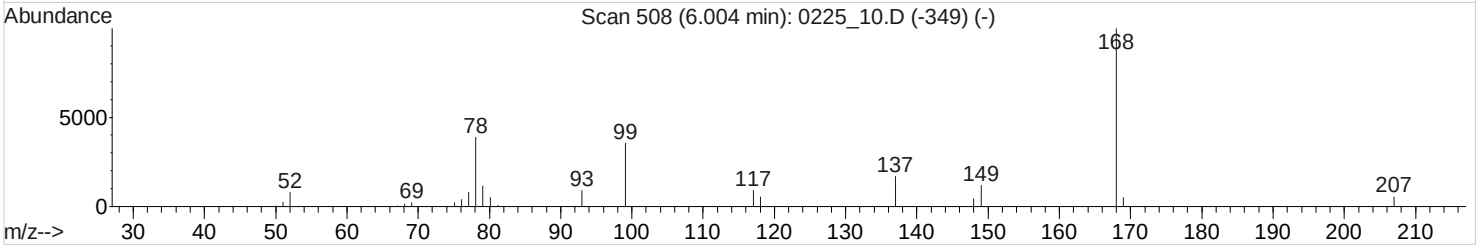
InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 35.D
Acq On : 5 Sep 2015 5:40 am
Operator : 591
Sample : STD GROMS 4 ppm 15H18659
Misc : water 15G07402
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Sep 07 14:26:08 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration







TIC: 0904_35.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

4.570min (0.000) 0.0000000 ppm m

response 43356570

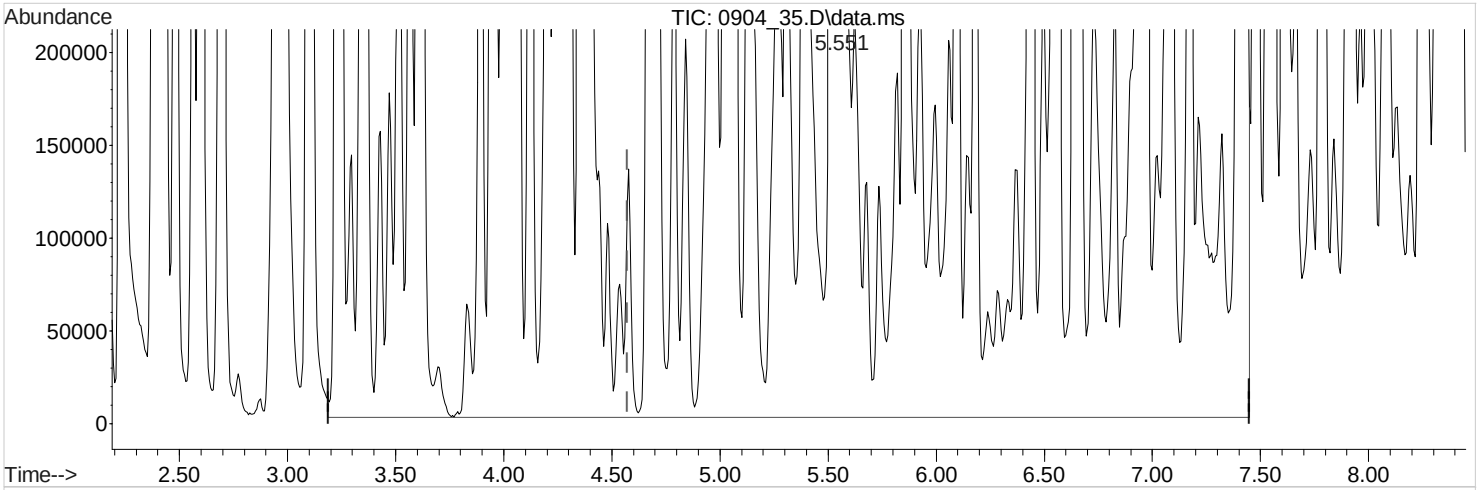
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	1.55#
0.00	0.00	0.65#
0.00	0.00	0.00

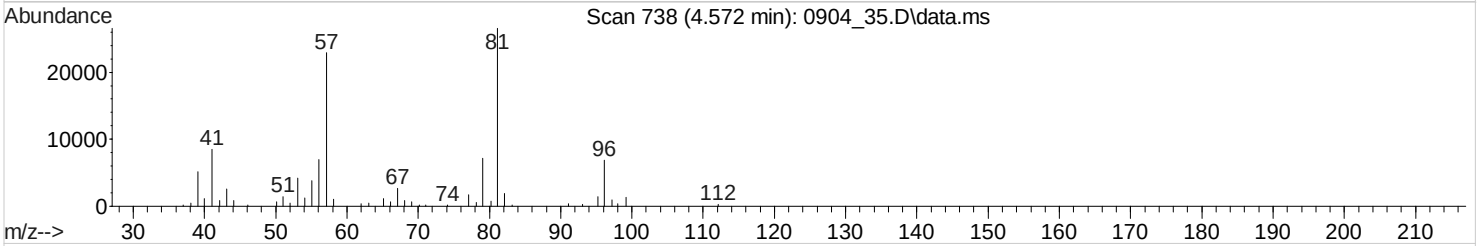
Quantitation Report (Qedit)

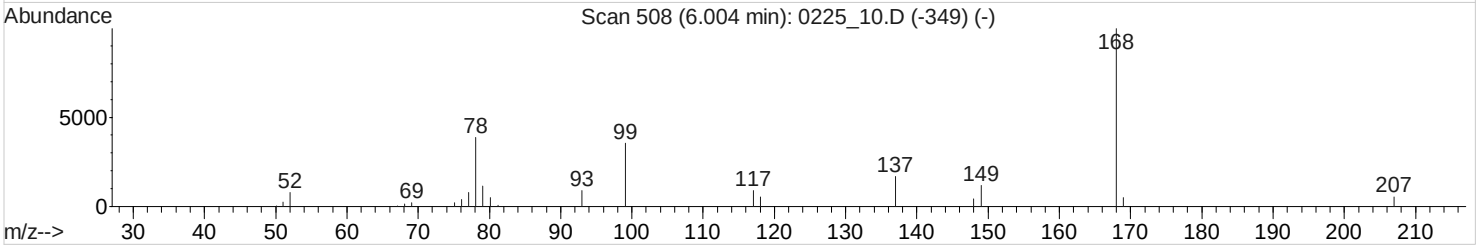
InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 35.D
Acq On : 5 Sep 2015 5:40 am
Operator : 591
Sample : STD GROMS 4 ppm 15H18659
Misc : water 15G07402
ALS Vial : 35 Sample Multiplier: 1

Quant Time: Sep 07 14:26:08 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration







TIC: 0904_35.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

4.570min (0.000) 0.0000000 ppm m

response 90585253

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.74#
0.00	0.00	0.31#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 36.D
Acq On : 5 Sep 2015 6:03 am
Operator : 591
Sample : MSTD GROMS 5.0 ppm 15H18659
Misc : water 15G07402
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 07 14:27:26 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.359	168	579282	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	996185	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.856	79	155565	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	424556	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.359	168	579282	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	996185	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.856	79	155565	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	424556	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.122	111	293123	41.3666708	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.42%				
46) a,a,a-Trifluorotoluene	5.059	146	535398	41.4415468	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 103.60%				
50) TOLUENE-D8	5.521	98	1181603	42.2197885	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 105.55%				
68) 4-BROMOFLUOROBENZENE	7.401	95	452511	41.8821490	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.71%				
Target Compounds							Qvalue
5) CHLOROMETHANE	1.895	50	16242	2.4450442	ppb	#	72
7) 1,3-BUTADIENE	1.956	39	14730	2.9904761	ppb	#	11
8) BROMOMETHANE	2.206	94	1501	0.5386976	ppb	#	83
11) DICHLOROFLUOROMETHANE	2.431	67	4809	0.4843945	ppb	#	1
13) ACROLEIN	2.954	56	174697	221.6507881	ppb	#	26
16) ACETONE	3.100	43	269125	130.5304567	ppb	#	77
17) IODOMETHANE	2.857	142	3176	0.4818917	ppb	#	83
20) ACRYLONITRILE	3.611	53	41098	27.0152451	ppb	#	40
21) n-Hexane	3.234	56	683900	133.4274414	ppb	#	63
25) VINYL ACETATE	3.696	43	9396	1.1281383	ppb	#	74
29) 2-BUTANONE (MEK)	4.189	43	104298	41.1450318	ppb	#	53
31) TETRAHYDROFURAN	4.134	42	2764	2.1105096	ppb	#	1
32) CHLOROFORM	4.000	83	25400	2.7223100	ppb	#	14
37) 2,2,4-TRIMETHYLPENTANE	4.256	41	776670	136.1931281	ppb		98
38) HEPTANE	4.292	43	526501	61.2418242	ppb	#	96
39) BENZENE	4.359	78	1255139	58.2501451	ppb		98
43) 1,2-DICHLOROPROPANE	4.980	62	1649	0.4159855	ppb	#	1
44) DIBROMOMETHANE	4.931	93	1011	0.3200934	ppb	#	1
45) BROMODICHLOROMETHANE	5.059	83	11272	1.4997030	ppb	#	1
49) 4-METHYL-2-PENTANONE (...	5.734	43	49771	11.7839489	ppb	#	42
51) TOLUENE	5.552	91	8947413	380.1267761	ppb		95
52) TRANS-1,3-DICHLOROPROPENE	5.862	75	6891	0.9144419	ppb	#	1
54) 1,1,2-TRICHLOROETHANE	5.917	97	13584	2.9039935	ppb	#	1
57) 2-HEXANONE	6.282	58	972	0.5190968	ppb	#	1
62) ETHYLBENZENE	6.555	106	815756	94.6453374	ppb		95
63) M&P-XYLENE	6.653	106	3370828	317.8413031	ppb		93
64) O-XYLENE	6.957	106	1396820	135.4877887	ppb		97
65) STYRENE	6.957	104	71321	4.2812094	ppb	#	1
67) Isopropylbenzene	7.176	105	230721	8.4823531	ppb		99
69) Bromobenzene	7.474	77	30775	2.6786103	ppb	#	25
71) 1,2,3-TRICHLOROPROPANE	7.644	110	1531	1.0029972	ppb	#	18
72) TRANS-1,4-DICHLORO-2-B...	7.736	53	656	0.4382193	ppb	#	18
73) n-Propylbenzene	7.474	91	880956	27.5412477	ppb		99

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 36.D
Acq On : 5 Sep 2015 6:03 am
Operator : 591
Sample : MSTD GROMS 5.0 ppm 15H18659
Misc : water 15G07402
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 07 14:27:26 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
74)	4-ETHYLTOLUENE	7.541	105	3300649	121.8201532	ppb		96
76)	4-Chlorotoluene	7.784	91	110848	5.6902391	ppb	#	50
77)	1,3,5-Trimethylbenzene	7.614	105	944296	42.6155479	ppb		100
79)	1,2,4-Trimethylbenzene	7.912	105	3233465	145.7407250	ppb		98
80)	sec-Butylbenzene	7.997	105	86806	2.9600796	ppb	#	69
82)	p-Isopropyltoluene	8.064	119	131282	5.4756967	ppb		93
86)	1,2,3-TRIMETHYLBENZENE	8.259	105	818867	41.1165643	ppb		99
88)	n-Butylbenzene	8.429	91	118308	5.0542603	ppb		98
92)	Naphthalene	10.059	128	184371	11.6623169	ppb	#	87
93)	1,2,3-Trichlorobenzene	10.218	180	3564	0.5801376	ppb	#	12
94)	1-Methylnaphthalene	10.923	142	88516	14.8639950	ppb		96
95)	2-Methylnaphthalene	11.063	142	41234	7.9928280	ppb	#	94
97)	ETHANOL	2.692	45	17865	291.3257061	ppb	#	85
100)	Methyl Acetate	3.240	43	709011	239.3695913	ppb	#	51
101)	ACETONITRILE	3.422	41	57901	118.0835605	ppb	#	45
103)	tert-BUTYL ALCOHOL	3.234	59	820	0.9196469	ppb	#	1
104)	chloroprene	3.568	53	3455	0.4301329	ppb	#	21
106)	PROPIONITRILE	4.408	54	9387	16.8356492	ppb	#	1
107)	Ethyl Acetate	4.055	43	933010	248.5761038	ppb	#	40
108)	METHACRYLONITRILE	4.383	67	9517	5.4079896	ppb	#	1
109)	Cyclohexane	4.018	56	541445	39.2767813	ppb	#	71
110)	tert-butyl formate	4.256	59	2386	1.7847332	ppb	#	1
111)	ISOBUTANOL	4.408	43	13890	59.9229878	ppb	#	71
113)	TERT-AMYL METHYL ETHER	4.359	73	21480	1.3658276	ppb	#	38
115)	N-BUTANOL	4.791	56	69859	726.5645297	ppb	#	59
116)	Methyl Cyclohexane	4.688	83	365806	27.2251626	ppb	#	46
117)	2-nitropropane	5.673	43	33116	28.2864705	ppb	#	67
118)	METHYL METHACRYLATE	5.034	41	346402	86.1661877	ppb	#	13
119)	1,4-DIOXANE	5.144	88	2759	45.4879972	ppb	#	1
120)	n-octane	5.393	85	161816	28.7860266	ppb		94
121)	3,3-DIMETHYL-1-BUTANOL	6.288	57	14083	29.8139778	ppb	#	34
123)	ETHYL METHACRYLATE	5.862	69	29750	5.5904057	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.419	53	12697	9.3759728	ppb	#	1
125)	Cyclohexanone	7.736	55	6495	8.1559155	ppb	#	22
126)	PENTACHLOROETHANE	7.912	117	110850	37.8599169	ppb	#	11
127)	Hexachloroethane	8.581	117	3462	0.8531405	ppb	#	67

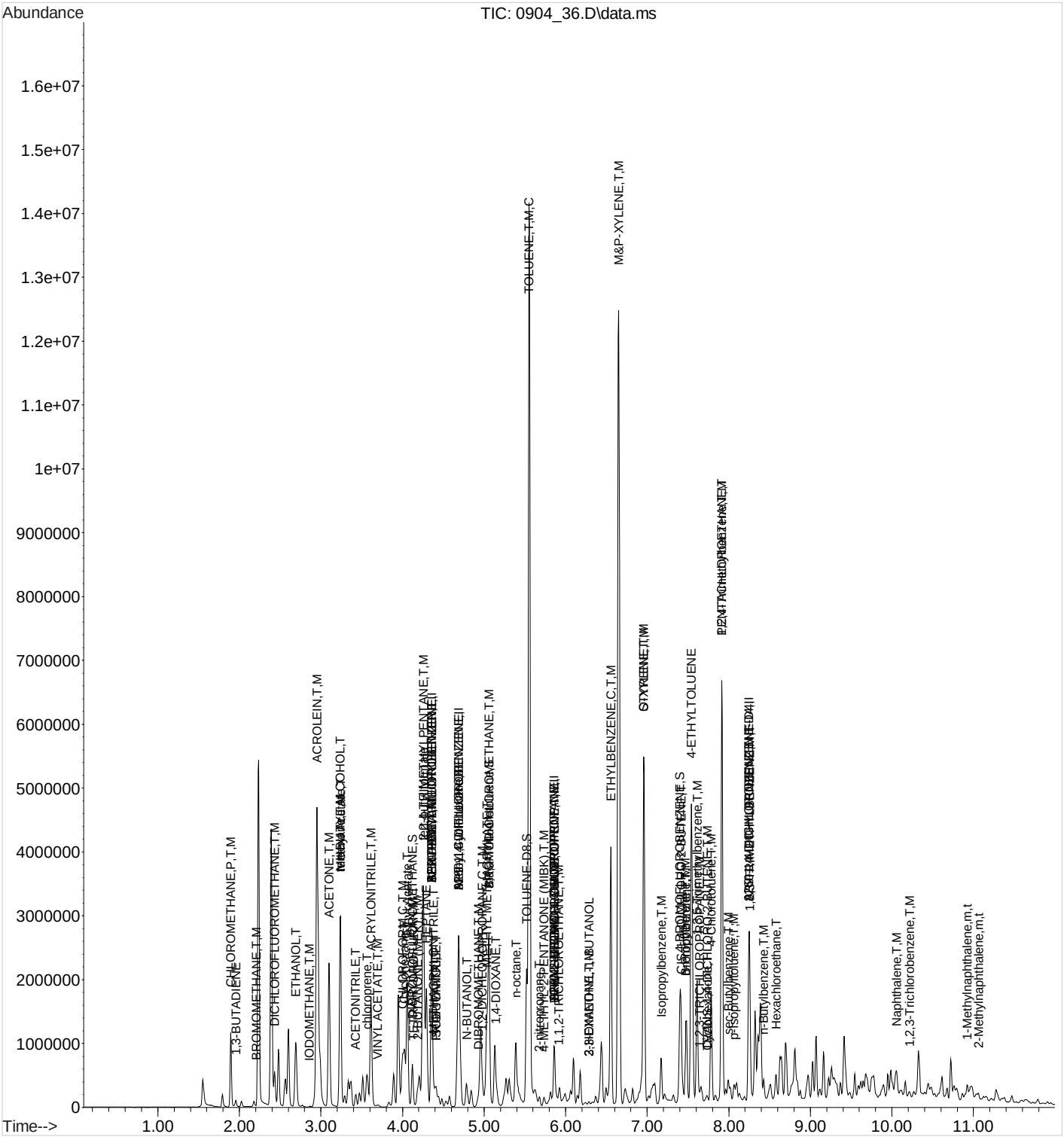
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 36.D
Acq On : 5 Sep 2015 6:03 am
Operator : 591
Sample : MSTD GROMS 5.0 ppm 15H18659
Misc : water 15G07402
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 07 14:27:26 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

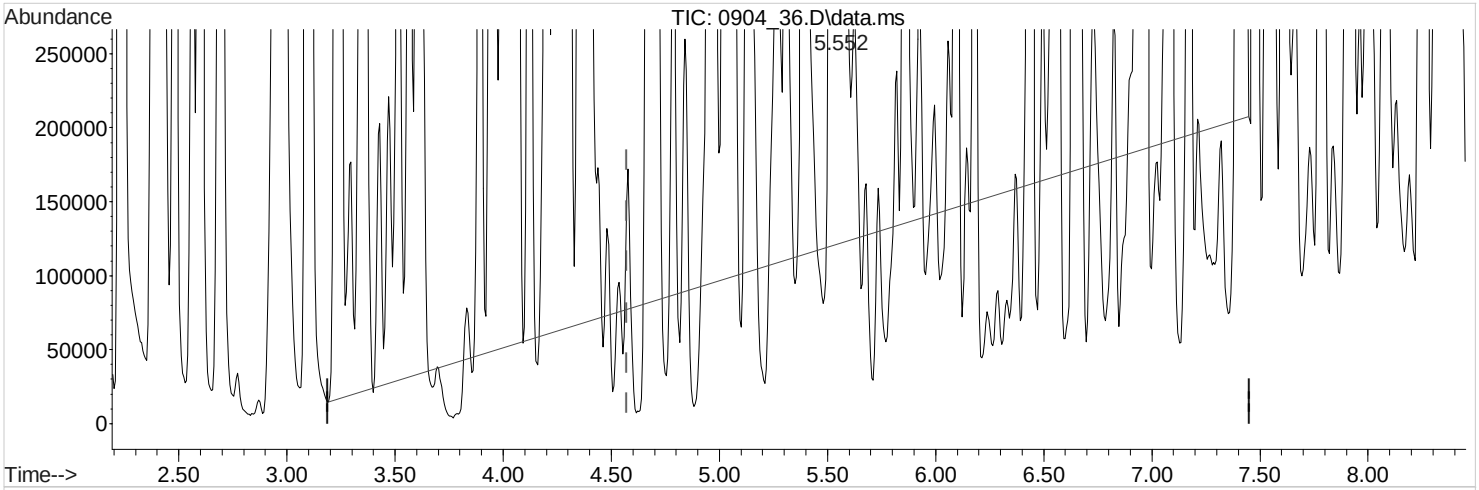


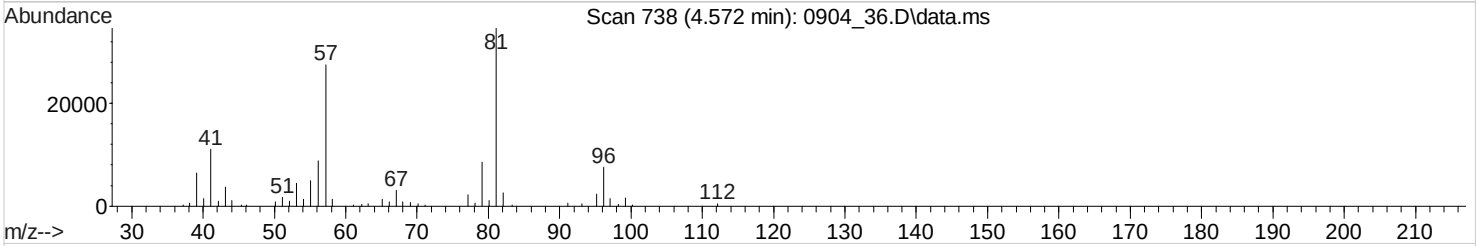
Quantitation Report (Qedit)

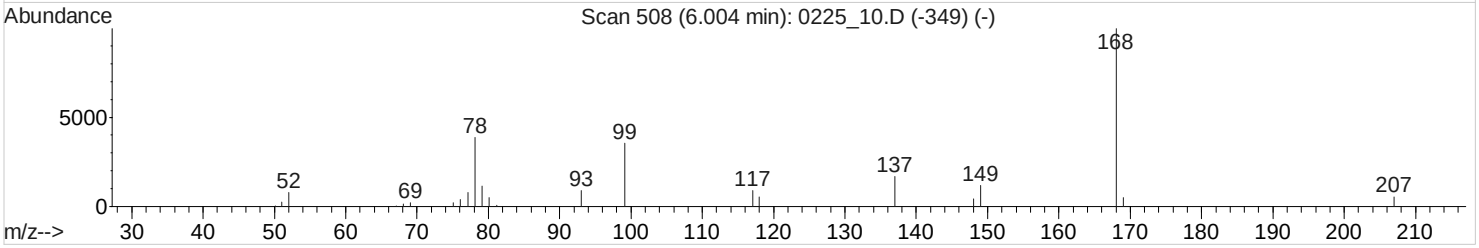
InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 36.D
Acq On : 5 Sep 2015 6:03 am
Operator : 591
Sample : MSTD GROMS 5.0 ppm 15H18659
Misc : water 15G07402
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 07 14:27:16 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration







TIC: 0904_36.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

4.570min (0.000) 0.0000000 ppm m

response 55041525

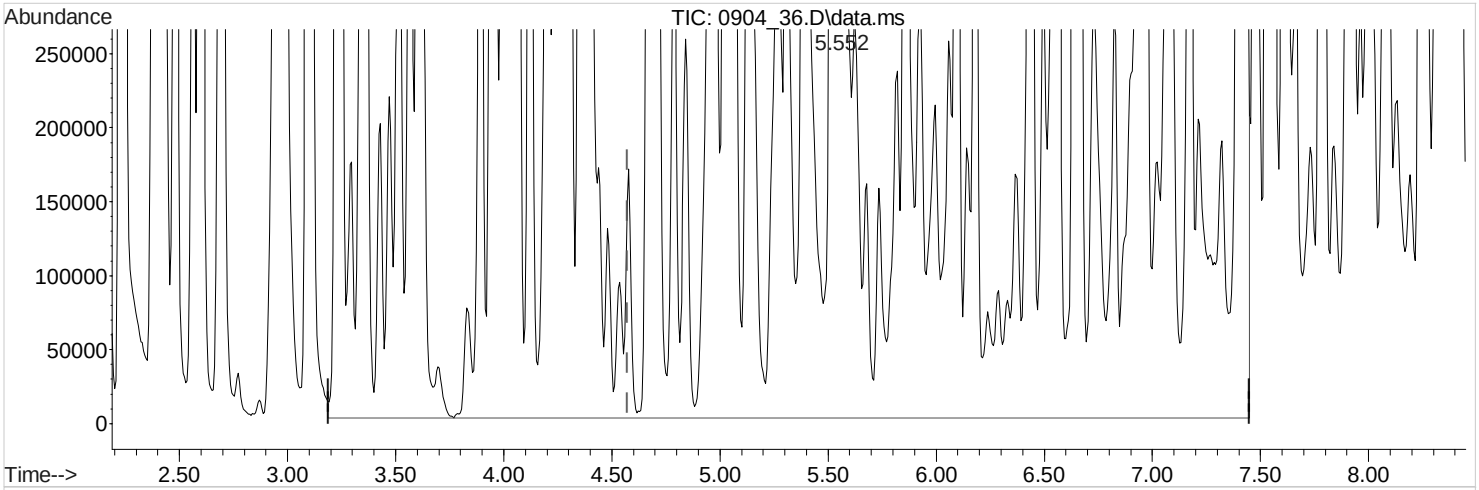
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	1.20#
0.00	0.00	0.52#
0.00	0.00	0.00

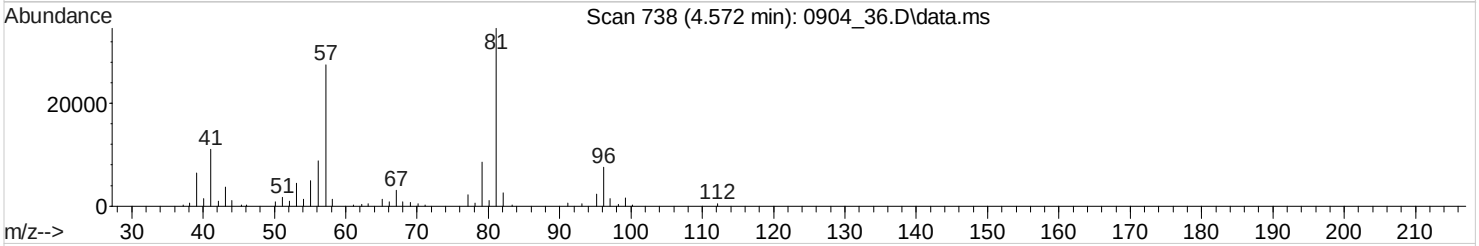
Quantitation Report (Qedit)

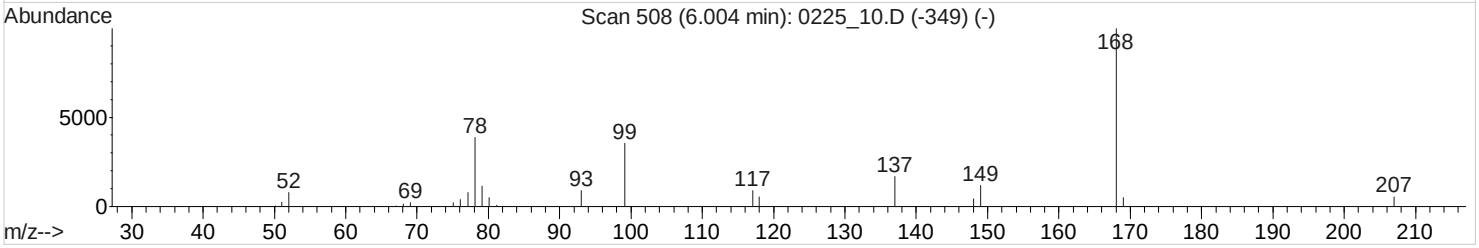
InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 36.D
Acq On : 5 Sep 2015 6:03 am
Operator : 591
Sample : MSTD GROMS 5.0 ppm 15H18659
Misc : water 15G07402
ALS Vial : 36 Sample Multiplier: 1

Quant Time: Sep 07 14:27:16 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration







TIC: 0904_36.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

4.570min (0.000) 0.0000000 ppm m

response 112674350

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.59#
0.00	0.00	0.25#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 37.D
Acq On : 5 Sep 2015 6:25 am
Operator : 591
Sample : STD GROMS 7 ppm 15H18659
Misc : water 15G07402
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 07 14:27:57 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.359	168	574516	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1000487	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.862	79	157627	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	423199	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.359	168	574516	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	1000487	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.862	79	157715	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	423199	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.122	111	292384	41.6046797	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 104.01%				
46) a,a,a-Trifluorotoluene	5.059	146	529342	40.7966136	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 101.99%				
50) TOLUENE-D8	5.521	98	1163874	41.4074974	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 103.52%				
68) 4-BROMOFLUOROBENZENE	7.401	95	451182	41.2128705	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.03%				
Target Compounds							Qvalue
3) PROPENE	1.658	41	2570	0.7261806	ppb		89
5) CHLOROMETHANE	1.895	50	21182	3.2151561	ppb	#	71
7) 1,3-BUTADIENE	1.956	39	20390	4.1739066	ppb	#	9
8) BROMOMETHANE	2.206	94	1776	0.6426806	ppb	#	65
11) DICHLOROFLUOROMETHANE	2.431	67	6704	0.6808734	ppb	#	1
13) ACROLEIN	2.954	56	237911	304.3590788	ppb	#	26
16) ACETONE	3.100	43	358599	175.3697951	ppb	#	78
17) IODOMETHANE	2.863	142	2962	0.4531499	ppb	#	86
20) ACRYLONITRILE	3.611	53	55050	36.4866049	ppb	#	41
21) n-Hexane	3.234	56	932704	183.4781276	ppb	#	63
25) VINYL ACETATE	3.696	43	13076	1.5830046	ppb	#	85
29) 2-BUTANONE (MEK)	4.183	43	141714	56.3692276	ppb	#	53
31) TETRAHYDROFURAN	4.128	42	2882	2.2188665	ppb	#	1
32) CHLOROFORM	4.000	83	33775	3.6499517	ppb	#	36
34) 1,1,1-TRICHLOROETHANE	4.207	97	3069	0.4040978	ppb	#	24
37) 2,2,4-TRIMETHYLPENTANE	4.256	41	1044127	184.6119871	ppb		97
38) HEPTANE	4.292	43	718611	84.2811950	ppb	#	95
39) BENZENE	4.359	78	1726572	80.7937539	ppb		98
43) 1,2-DICHLOROPROPANE	4.980	62	2687	0.6749222	ppb	#	1
44) DIBROMOMETHANE	4.925	93	1749	0.5513709	ppb	#	1
45) BROMODICHLOROMETHANE	5.059	83	15762	2.0880656	ppb	#	1
49) 4-METHYL-2-PENTANONE (...	5.734	43	70726	16.6733216	ppb	#	41
51) TOLUENE	5.558	91	11480649	485.6528768	ppb		93
52) TRANS-1,3-DICHLOROPROPENE	5.856	75	7005	0.9255727	ppb	#	1
54) 1,1,2-TRICHLOROETHANE	5.910	97	19022	4.0133352	ppb	#	1
57) 2-HEXANONE	6.282	58	1229	0.6477617	ppb	#	1
62) ETHYLBENZENE	6.555	106	1111366	127.2557270	ppb		93
63) M&P-XYLENE	6.653	106	4472737	416.2252140	ppb		91
64) O-XYLENE	6.957	106	1873084	179.3074140	ppb		96
65) STYRENE	6.957	104	95654	5.6667423	ppb	#	1
67) Isopropylbenzene	7.176	105	315960	11.4641699	ppb		99
69) Bromobenzene	7.480	77	44228	3.7991816	ppb	#	25
70) 1,1,2,2-TETRACHLOROETHANE	7.498	83	28682	4.7136858	ppb	#	38

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 37.D
Acq On : 5 Sep 2015 6:25 am
Operator : 591
Sample : STD GROMS 7 ppm 15H18659
Misc : water 15G07402
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 07 14:27:57 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
71)	1,2,3-TRICHLOROPROPANE	7.644	110	2232	1.4431119	ppb	#	18
72)	TRANS-1,4-DICHLORO-2-B...	7.729	53	1620	1.0680314	ppb	#	18
73)	n-Propylbenzene	7.480	91	1201844	37.0816265	ppb		99
74)	4-ETHYLTOLUENE	7.541	105	4470164	162.8262941	ppb		95
76)	4-Chlorotoluene	7.784	91	149451	7.5715146	ppb	#	50
77)	1,3,5-Trimethylbenzene	7.614	105	1297204	57.7762685	ppb		100
79)	1,2,4-Trimethylbenzene	7.912	105	4352246	193.6009480	ppb		97
80)	sec-Butylbenzene	7.997	105	122693	4.1290934	ppb	#	74
82)	p-Isopropyltoluene	8.070	119	179397	7.3846626	ppb		94
86)	1,2,3-TRIMETHYLBENZENE	8.259	105	1119877	56.7202917	ppb		98
88)	n-Butylbenzene	8.429	91	159381	6.8307814	ppb		99
92)	Naphthalene	10.059	128	258627	16.4118085	ppb	#	87
93)	1,2,3-Trichlorobenzene	10.218	180	3851	0.6288647	ppb	#	12
94)	1-Methylnaphthalene	10.923	142	122725	20.6746022	ppb		98
95)	2-Methylnaphthalene	11.063	142	55492	10.7911003	ppb	#	90
97)	ETHANOL	2.692	45	23961	393.9749710	ppb	#	83
99)	2-PROPANOL	3.033	45	609	1.8657562	ppb	#	59
100)	Methyl Acetate	3.240	43	981484	334.1082004	ppb	#	51
101)	ACETONITRILE	3.428	41	82015	168.6493106	ppb	#	46
103)	tert-BUTYL ALCOHOL	3.240	59	1083	1.2246828	ppb	#	1
104)	chloroprene	3.562	53	4938	0.6198600	ppb	#	21
106)	PROPIONITRILE	4.402	54	17757	32.1114968	ppb	#	1
107)	Ethyl Acetate	4.055	43	1258300	338.0221661	ppb	#	40
108)	METHACRYLONITRILE	4.383	67	12135	6.9528597	ppb	#	1
109)	Cyclohexane	4.018	56	737147	53.9167308	ppb	#	71
110)	tert-butyl formate	4.250	59	3378	2.5477125	ppb	#	1
111)	ISOBUTANOL	4.408	43	18804	81.7954907	ppb	#	71
113)	TERT-AMYL METHYL ETHER	4.359	73	28610	1.8342874	ppb	#	42
115)	N-BUTANOL	4.785	56	95875	992.8548294	ppb	#	60
116)	Methyl Cyclohexane	4.688	83	500886	37.4354674	ppb	#	46
117)	2-nitropropane	5.673	43	46926	39.9101142	ppb	#	67
118)	METHYL METHACRYLATE	5.034	41	464419	115.0257344	ppb	#	13
119)	1,4-DIOXANE	5.138	88	2582	42.3867288	ppb	#	1
120)	n-octane	5.393	85	219698	38.9148098	ppb		96
121)	3,3-DIMETHYL-1-BUTANOL	6.288	57	18688	39.3927335	ppb	#	39
123)	ETHYL METHACRYLATE	5.868	69	40460	7.4993069	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.419	53	24028	17.5013575	ppb	#	1
125)	Cyclohexanone	7.669	55	21312	26.3971270	ppb	#	66
126)	PENTACHLOROETHANE	7.912	117	153209	51.6139539	ppb	#	11
127)	Hexachloroethane	8.575	117	5705	1.3867176	ppb	#	70

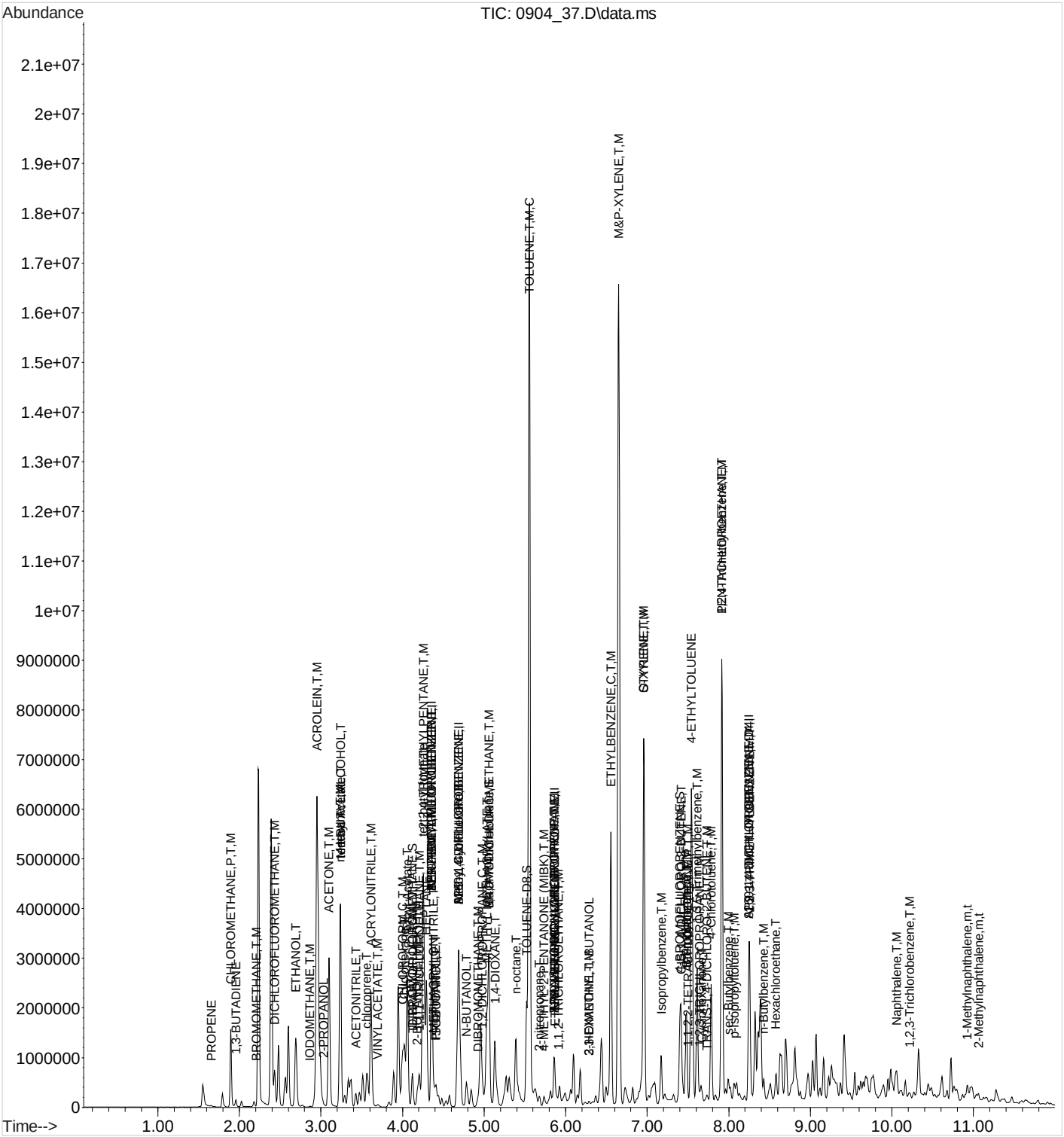
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 37.D
Acq On : 5 Sep 2015 6:25 am
Operator : 591
Sample : STD GROMS 7 ppm 15H18659
Misc : water 15G07402
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 07 14:27:57 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

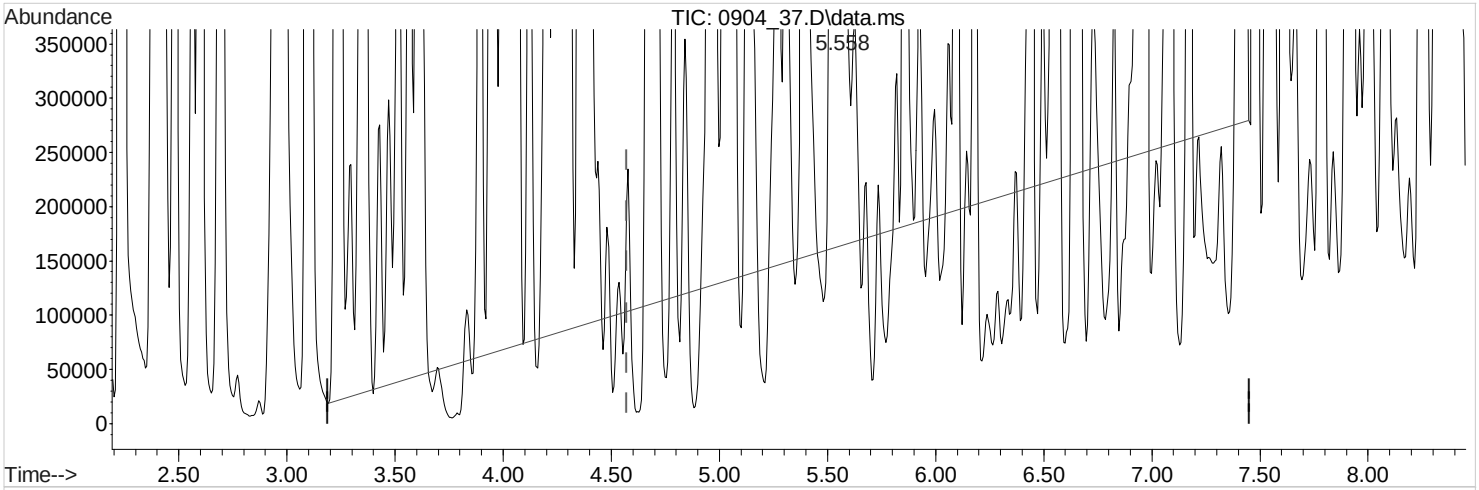


Quantitation Report (Qedit)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 37.D
Acq On : 5 Sep 2015 6:25 am
Operator : 591
Sample : STD GROMS 7 ppm 15H18659
Misc : water 15G07402
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 07 14:27:48 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration



TIC: 0904_37.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

4.570min (0.000) 0.0000000 ppm m

response 76200545

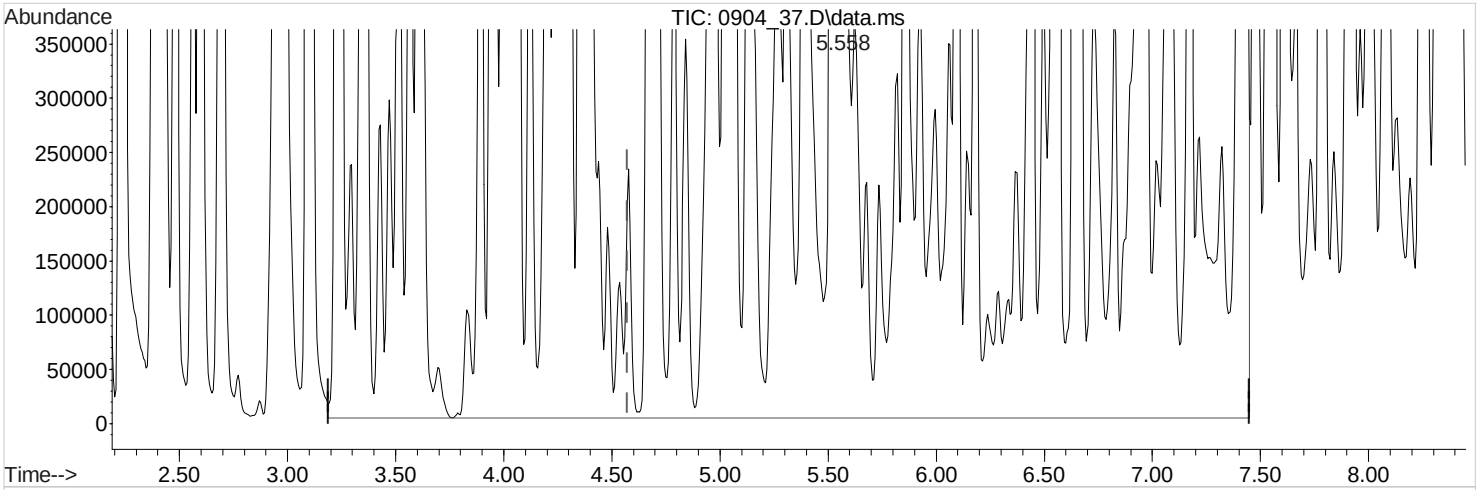
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.87#
0.00	0.00	0.39#
0.00	0.00	0.00

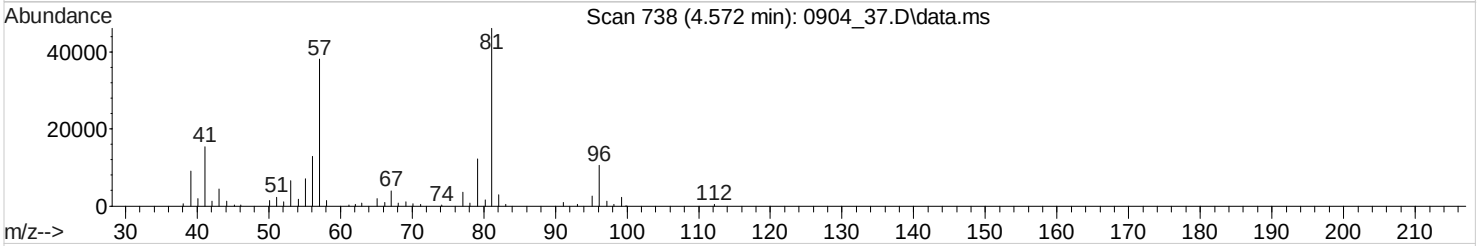
Quantitation Report (Qedit)

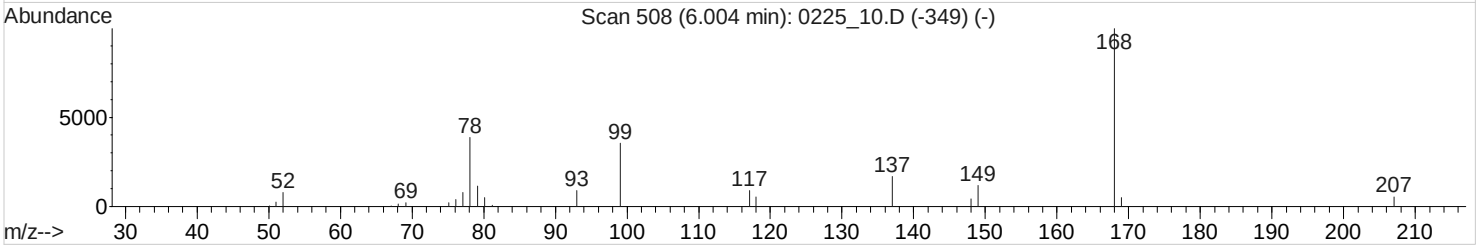
InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 37.D
Acq On : 5 Sep 2015 6:25 am
Operator : 591
Sample : STD GROMS 7 ppm 15H18659
Misc : water 15G07402
ALS Vial : 37 Sample Multiplier: 1

Quant Time: Sep 07 14:27:48 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration







TIC: 0904_37.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

4.570min (0.000) 0.0000000 ppm m

response 152832481

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.43#
0.00	0.00	0.19#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 38.D
Acq On : 5 Sep 2015 6:48 am
Operator : 591
Sample : STD GROMS 10 ppm 15H18659
Misc : water 15G07402
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 07 14:28:27 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.359	168	570221	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	988459	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.862	79	158482	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	417473	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.359	168	570221	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	988459	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.862	79	158482	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	417473	40.0000000	ppb	#	0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.122	111	289781	41.5448702	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.86%				
46) a,a,a-Trifluorotoluene	5.059	146	523902	40.8686797	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 102.17%				
50) TOLUENE-D8	5.521	98	1163041	41.8813654	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.70%				
68) 4-BROMOFLUOROBENZENE	7.401	95	461693	41.9454692	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.86%				
Target Compounds							Qvalue
3) PROPENE	1.658	41	2574	0.7430711	ppb		88
5) CHLOROMETHANE	1.895	50	28310	4.3294616	ppb	#	72
7) 1,3-BUTADIENE	1.956	39	28307	5.8381905	ppb	#	11
8) BROMOMETHANE	2.206	94	858	0.3128229	ppb	#	64
11) DICHLOROFLUOROMETHANE	2.431	67	8194	0.8384695	ppb	#	1
13) ACROLEIN	2.954	56	331704	427.5445432	ppb	#	31
16) ACETONE	3.100	43	489456	241.1672315	ppb	#	78
17) IODOMETHANE	2.857	142	3705	0.5710892	ppb	#	82
20) ACRYLONITRILE	3.611	53	77321	51.6336128	ppb	#	42
21) n-Hexane	3.234	56	1276654	253.0303354	ppb	#	62
25) VINYL ACETATE	3.702	43	17610	2.1479567	ppb	#	87
29) 2-BUTANONE (MEK)	4.183	43	195650	78.4093946	ppb	#	52
31) TETRAHYDROFURAN	4.128	42	4512	3.4999772	ppb	#	1
32) CHLOROFORM	4.000	83	46086	5.0178734	ppb	#	35
34) 1,1,1-TRICHLOROETHANE	4.207	97	3905	0.5180475	ppb	#	24
37) 2,2,4-TRIMETHYLPENTANE	4.256	41	1413851	251.8657620	ppb		95
38) HEPTANE	4.292	43	995105	117.5884465	ppb	#	96
39) BENZENE	4.359	78	2378730	112.1494541	ppb		98
43) 1,2-DICHLOROPROPANE	4.986	62	3471	0.8824569	ppb	#	1
44) DIBROMOMETHANE	4.931	93	2311	0.7374062	ppb	#	1
45) BROMODICHLOROMETHANE	5.065	83	19919	2.6708724	ppb	#	1
49) 4-METHYL-2-PENTANONE (...	5.734	43	97233	23.2011497	ppb	#	42
51) TOLUENE	5.558	91	14588022	624.6097019	ppb		90
52) TRANS-1,3-DICHLOROPROPENE	5.856	75	7150	0.9562275	ppb	#	1
54) 1,1,2-TRICHLOROETHANE	5.917	97	25910	5.4371002	ppb	#	1
57) 2-HEXANONE	6.288	58	2380	1.2476450	ppb	#	48
62) ETHYLBENZENE	6.555	106	1525097	173.6874198	ppb		92
63) M&P-XYLENE	6.653	106	6028807	558.0036901	ppb		88
64) O-XYLENE	6.963	106	2599577	247.5109094	ppb		94
65) STYRENE	6.957	104	133008	7.8371609	ppb	#	1
67) Isopropylbenzene	7.176	105	438917	15.8395769	ppb		99
69) Bromobenzene	7.474	77	59516	5.0848384	ppb	#	25
71) 1,2,3-TRICHLOROPROPANE	7.650	110	3309	2.1279099	ppb	#	18

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 38.D
Acq On : 5 Sep 2015 6:48 am
Operator : 591
Sample : STD GROMS 10 ppm 15H18659
Misc : water 15G07402
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 07 14:28:27 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
72)	TRANS-1,4-DICHLORO-2-B...	7.742	53	3114	2.0419179	ppb	#	18
73)	n-Propylbenzene	7.474	91	1658875	50.9067070	ppb		99
74)	4-ETHYLTOLUENE	7.541	105	6078602	220.2193402	ppb		94
76)	4-Chlorotoluene	7.784	91	202992	10.2285371	ppb	#	50
77)	1,3,5-Trimethylbenzene	7.614	105	1784038	79.0307271	ppb		99
79)	1,2,4-Trimethylbenzene	7.912	105	5873318	259.8532943	ppb		96
80)	sec-Butylbenzene	7.997	105	169133	5.6612710	ppb	#	72
82)	p-Isopropyltoluene	8.064	119	249636	10.2205288	ppb		93
86)	1,2,3-TRIMETHYLBENZENE	8.259	105	1533771	79.0718519	ppb		98
88)	n-Butylbenzene	8.429	91	224572	9.7567615	ppb		99
92)	Naphthalene	10.060	128	339303	21.8266216	ppb	#	84
93)	1,2,3-Trichlorobenzene	10.224	180	5749	0.9516828	ppb	#	12
94)	1-Methylnaphthalene	10.929	142	164394	28.0741311	ppb		99
95)	2-Methylnaphthalene	11.063	142	75074	14.7992990	ppb	#	89
97)	ETHANOL	2.692	45	33143	549.0532045	ppb	#	83
100)	Methyl Acetate	3.240	43	1312537	450.1677578	ppb	#	51
101)	ACETONITRILE	3.428	41	111778	231.5829257	ppb	#	46
103)	tert-BUTYL ALCOHOL	3.240	59	1633	1.8605454	ppb	#	1
104)	chloroprene	3.568	53	8870	1.1218248	ppb	#	21
105)	ETHYL TERT-BUTYL ETHER	3.660	59	5117	0.3457388	ppb	#	70
106)	PROPIONITRILE	4.408	54	20336	37.0523202	ppb	#	1
107)	Ethyl Acetate	4.055	43	1737392	470.2380004	ppb	#	40
108)	METHACRYLONITRILE	4.384	67	16527	9.5406208	ppb	#	1
109)	Cyclohexane	4.019	56	1016691	74.9233779	ppb	#	72
110)	tert-butyl formate	4.256	59	4098	3.1140218	ppb	#	1
111)	ISOBUTANOL	4.396	43	25580	112.1085100	ppb	#	71
112)	t-Amyl Alcohol	4.481	59	549	1.4829583	ppb	#	19
113)	TERT-AMYL METHYL ETHER	4.359	73	38671	2.4980082	ppb	#	39
115)	N-BUTANOL	4.785	56	133158	1395.7268367	ppb	#	61
116)	Methyl Cyclohexane	4.688	83	690967	52.6162080	ppb	#	46
117)	2-nitropropane	5.673	43	64828	55.8065080	ppb	#	66
118)	METHYL METHACRYLATE	5.035	41	635411	159.2914827	ppb	#	13
119)	1,4-DIOXANE	5.144	88	2505	41.6230771	ppb	#	1
120)	n-octane	5.393	85	300364	53.8504675	ppb		93
121)	3,3-DIMETHYL-1-BUTANOL	6.282	57	26076	55.6348671	ppb	#	30
123)	ETHYL METHACRYLATE	5.868	69	54605	10.0721159	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.419	53	31475	22.8146026	ppb	#	1
125)	Cyclohexanone	7.663	55	27970	34.4760878	ppb	#	64
126)	PENTACHLOROETHANE	7.912	117	207404	69.5333313	ppb	#	11
127)	Hexachloroethane	8.581	117	6994	1.6918080	ppb	#	64

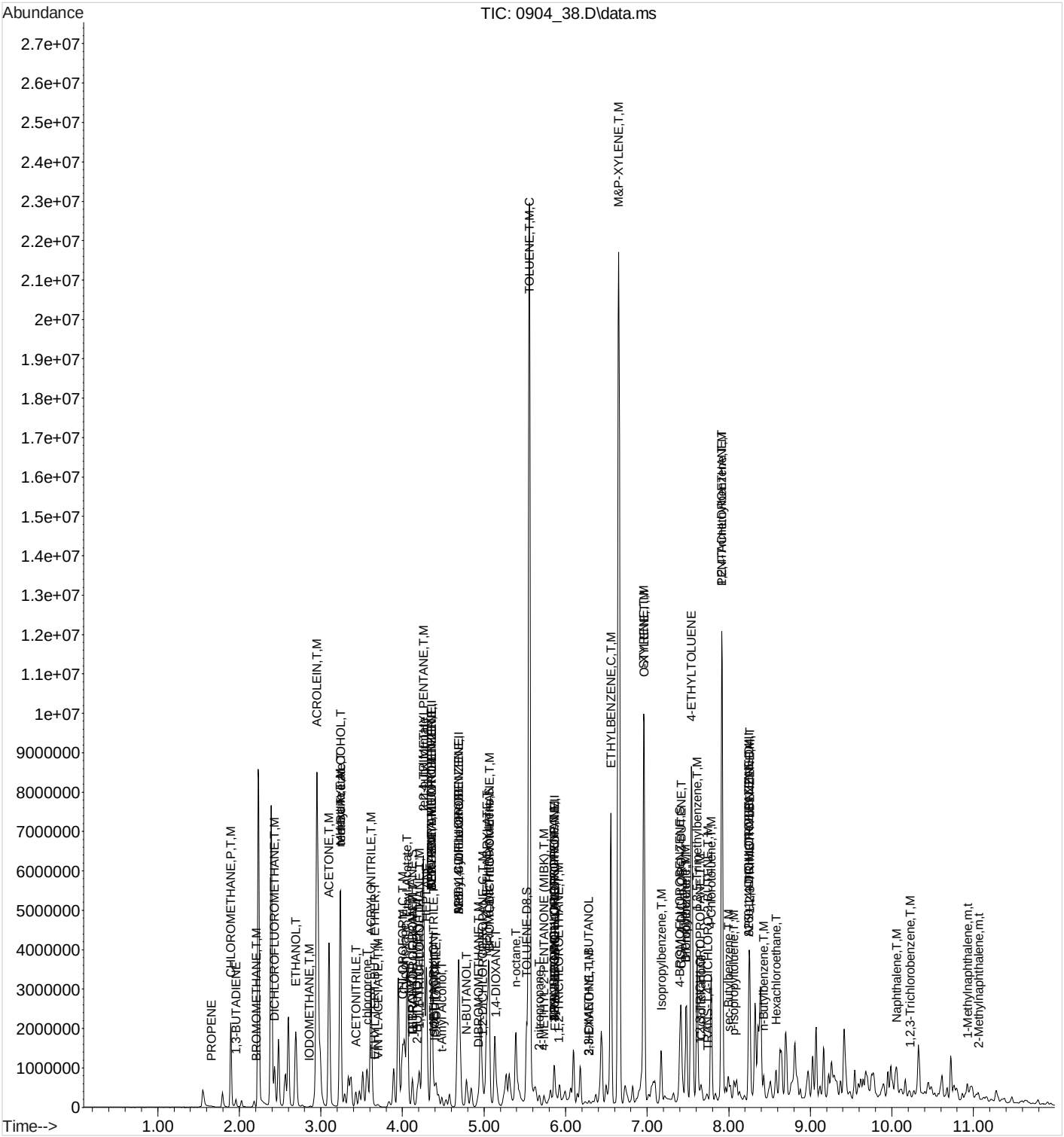
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 38.D
Acq On : 5 Sep 2015 6:48 am
Operator : 591
Sample : STD GROMS 10 ppm 15H18659
Misc : water 15G07402
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 07 14:28:27 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

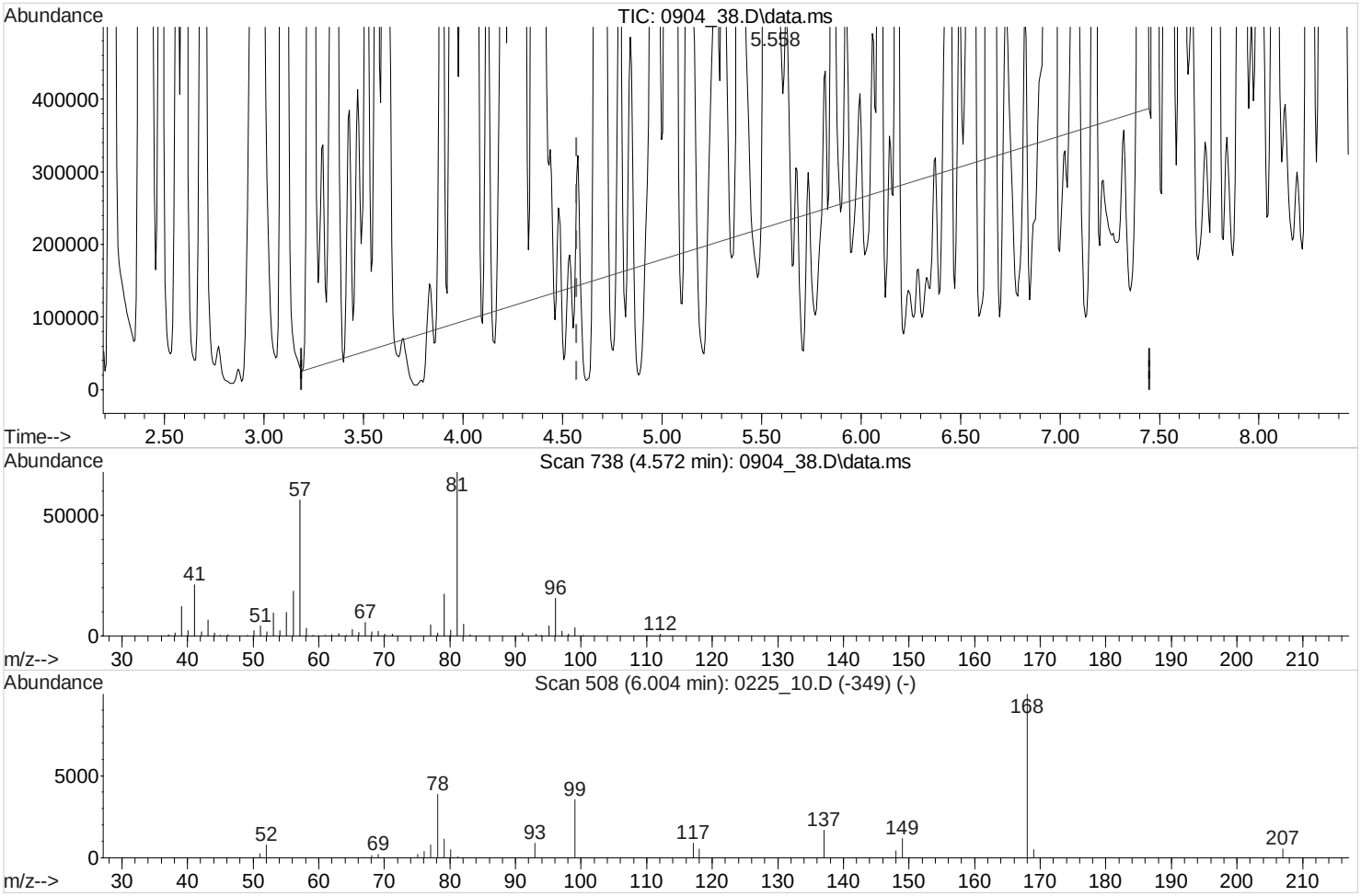


Quantitation Report (Qedit)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 38.D
Acq On : 5 Sep 2015 6:48 am
Operator : 591
Sample : STD GROMS 10 ppm 15H18659
Misc : water 15G07402
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 07 14:28:19 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration



TIC: 0904_38.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

4.570min (0.000) 0.0000000 ppm m

response 105272690

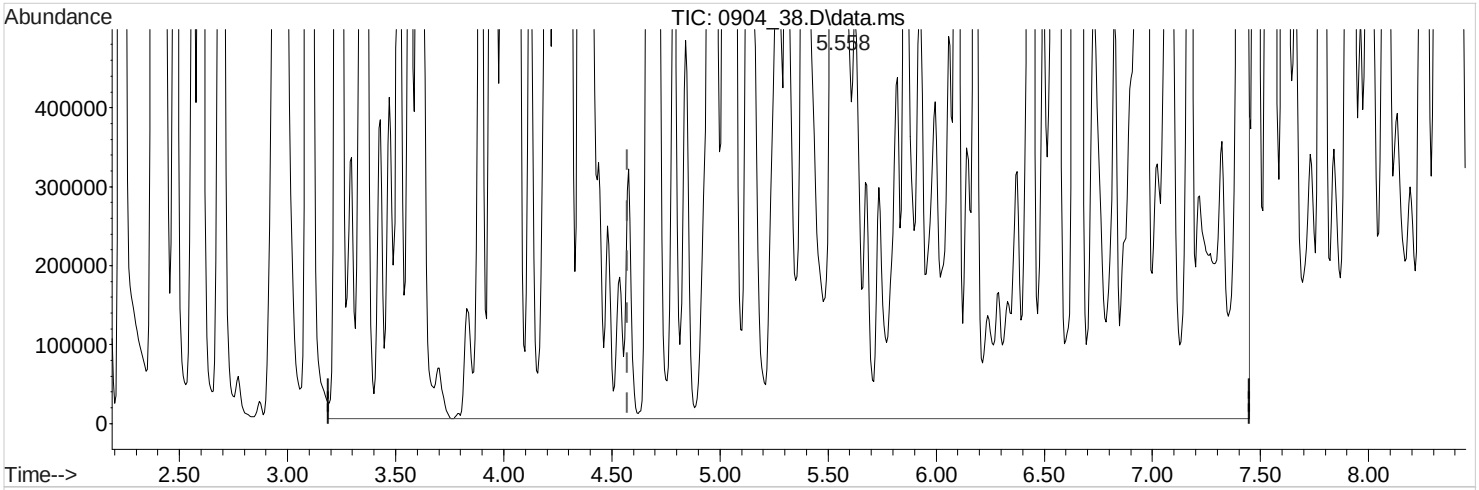
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.62#
0.00	0.00	0.29#
0.00	0.00	0.00

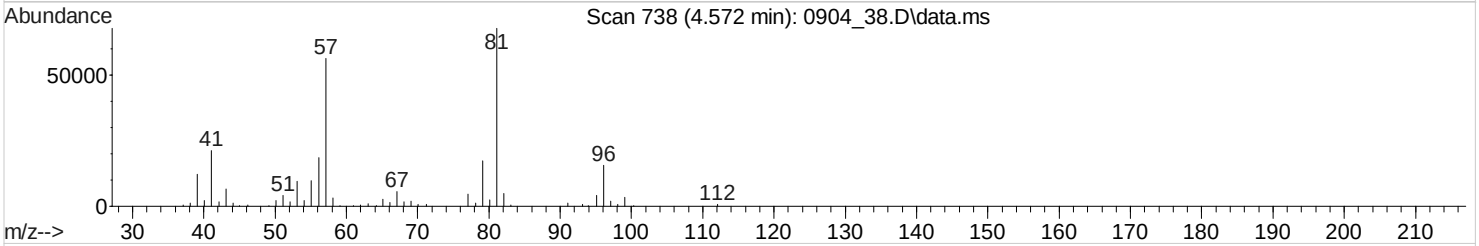
Quantitation Report (Qedit)

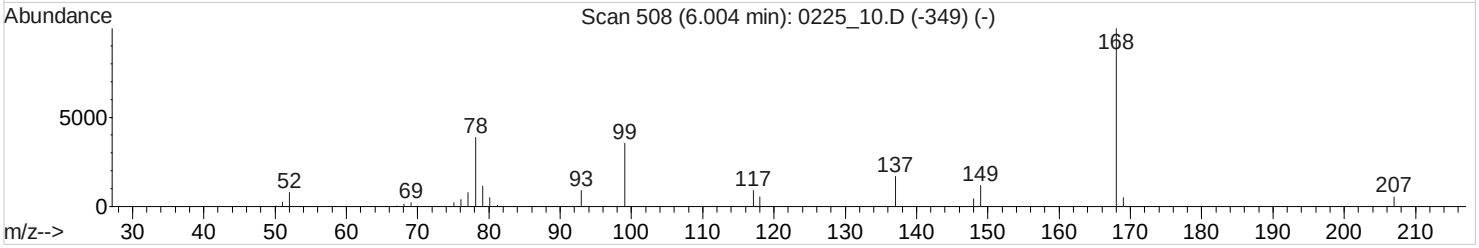
InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 38.D
Acq On : 5 Sep 2015 6:48 am
Operator : 591
Sample : STD GROMS 10 ppm 15H18659
Misc : water 15G07402
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Sep 07 14:28:19 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration







TIC: 0904_38.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

4.570min (0.000) 0.0000000 ppm m

response 209221500

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.31#
0.00	0.00	0.15#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 39.D
Acq On : 5 Sep 2015 7:10 am
Operator : 591
Sample : STD GROMS 20 ppm 15H18659
Misc : water 15G07402
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Sep 07 14:24:13 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.359	168	553787	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	980879	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.862	79	166240	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	405963	40.0000000	ppb	#	0.00
96) AP9-PENTAFLUOROBENZENE	4.359	168	553787	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	980879	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.862	79	166240	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	405963	40.0000000	ppb	#	0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.122	111	281159	41.5049544	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.76%				
46) a,a,a-Trifluorotoluene	5.059	146	500020	39.3071133	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 98.27%				
50) TOLUENE-D8	5.521	98	1156776	41.9776672	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 104.94%				
68) 4-BROMOFLUOROBENZENE	7.401	95	481682	41.7192600	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 104.30%				
Target Compounds							Qvalue
3) PROPENE	1.658	41	3705	1.6460247	ppb		87
5) CHLOROMETHANE	1.895	50	55576	8.7514852	ppb	#	70
7) 1,3-BUTADIENE	1.956	39	51750	10.9899375	ppb	#	10
8) BROMOMETHANE	2.206	94	1567	0.5882753	ppb	#	67
11) DICHLOROFLUOROMETHANE	2.425	67	15184	1.5998451	ppb	#	1
13) ACROLEIN	2.954	56	625985	830.7972239	ppb	#	30
16) ACETONE	3.100	43	941122	477.4754182	ppb	#	77
17) IODOMETHANE	2.857	142	3860	0.6126374	ppb	#	86
19) METHYLENE CHLORIDE	3.094	84	2814	0.5086370	ppb	#	1
20) ACRYLONITRILE	3.611	53	145155	99.8084940	ppb	#	41
21) n-Hexane	3.234	56	2431278	496.1745129	ppb	#	63
23) METHYL TERT-BUTYL ETHER	3.252	73	6701	0.5203170	ppb	#	1
25) VINYL ACETATE	3.696	43	37060	4.6544893	ppb	#	86
27) 2,2-Dichloropropane	3.952	77	3481	0.4278060	ppb	#	55
28) CIS-1,2-DICHLOROETHENE	3.897	96	2046	0.3662263	ppb	#	1
29) 2-BUTANONE (MEK)	4.189	43	379096	156.4364317	ppb	#	52
31) TETRAHYDROFURAN	4.134	42	7493	5.9848367	ppb	#	1
32) CHLOROFORM	4.000	83	89420	10.0250327	ppb	#	35
34) 1,1,1-TRICHLOROETHANE	4.201	97	6854	0.9362527	ppb	#	34
37) 2,2,4-TRIMETHYLPENTANE	4.256	41	2620099	480.5998639	ppb		91
38) HEPTANE	4.292	43	1920458	233.6689511	ppb	#	88
39) BENZENE	4.359	78	4564534	221.5893641	ppb		98
43) 1,2-DICHLOROPROPANE	4.986	62	7075	1.8126274	ppb	#	1
44) DIBROMOMETHANE	4.925	93	4109	1.3212537	ppb	#	1
45) BROMODICHLOROMETHANE	5.065	83	39090	5.2819527	ppb	#	1
49) 4-METHYL-2-PENTANONE (...	5.734	43	191326	46.0058475	ppb	#	40
51) TOLUENE	5.552	91	18926755	816.6419773	ppb	#	74
52) TRANS-1,3-DICHLOROPROPENE	5.862	75	6732	0.9072825	ppb	#	1
54) 1,1,2-TRICHLOROETHANE	5.917	97	53916	10.7860394	ppb	#	1
57) 2-HEXANONE	6.282	58	2621	1.3098619	ppb	#	1
58) CHLORODIBROMOMETHANE	6.099	129	3334	0.6096274	ppb	#	20
60) CHLOROBENZENE	6.537	112	5489	0.3385553	ppb	#	27
62) ETHYLBENZENE	6.555	106	2922277	317.2756115	ppb		86

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 39.D
Acq On : 5 Sep 2015 7:10 am
Operator : 591
Sample : STD GROMS 20 ppm 15H18659
Misc : water 15G07402
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Sep 07 14:24:13 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
63)	M&P-XYLENE	6.653	106	9856613	869.7166977	ppb		76
64)	O-XYLENE	6.963	106	4868082	441.8694314	ppb		89
65)	STYRENE	6.963	104	248802	13.9758837	ppb	#	1
67)	Isopropylbenzene	7.176	105	850426	29.2578303	ppb		99
69)	Bromobenzene	7.480	77	113648	9.2565602	ppb	#	25
70)	1,1,2,2-TETRACHLOROETHANE	7.498	83	72883	11.3572326	ppb	#	40
71)	1,2,3-TRICHLOROPROPANE	7.650	110	6412	3.9309218	ppb	#	18
72)	TRANS-1,4-DICHLORO-2-B...	7.736	53	6950	4.3445908	ppb	#	18
73)	n-Propylbenzene	7.480	91	3205533	93.7790886	ppb		99
74)	4-ETHYLTOLUENE	7.547	105	11146571	384.9793618	ppb		90
77)	1,3,5-Trimethylbenzene	7.614	105	3419788	144.4227046	ppb		98
79)	1,2,4-Trimethylbenzene	7.918	105	10441533	440.4061651	ppb		93
80)	sec-Butylbenzene	7.997	105	331152	10.5671382	ppb	#	72
82)	p-Isopropyltoluene	8.070	119	481810	18.8055644	ppb		94
83)	DICYCLOPENTADIENE	8.107	66	12573	0.4659725	ppb		97
86)	1,2,3-TRIMETHYLBENZENE	8.259	105	2968779	158.2149267	ppb		97
88)	n-Butylbenzene	8.429	91	448488	20.0374684	ppb	#	96
92)	Naphthalene	10.059	128	668556	44.2260904	ppb	#	86
93)	1,2,3-Trichlorobenzene	10.218	180	16566	2.8200676	ppb	#	12
94)	1-Methylnaphthalene	10.929	142	303462	53.2925641	ppb		99
95)	2-Methylnaphthalene	11.063	142	130608	26.4766667	ppb	#	93
97)	ETHANOL	2.698	45	65268	1113.3286096	ppb	#	89
99)	2-PROPANOL	3.045	45	805	2.5585438	ppb	#	59
100)	Methyl Acetate	3.234	43	2535748	895.5078022	ppb	#	51
101)	ACETONITRILE	3.422	41	217412	463.8036517	ppb	#	45
103)	tert-BUTYL ALCOHOL	3.234	59	3476	4.0778788	ppb	#	1
104)	chloroprene	3.562	53	13741	1.7894527	ppb	#	21
105)	ETHYL TERT-BUTYL ETHER	3.666	59	10225	0.7113715	ppb	#	73
106)	PROPIONITRILE	4.408	54	42348	79.4480479	ppb	#	1
107)	Ethyl Acetate	4.055	43	2334694	650.6543274	ppb	#	15
108)	METHACRYLONITRILE	4.390	67	31157	18.5199023	ppb	#	1
109)	Cyclohexane	4.018	56	1968012	149.3332658	ppb	#	73
110)	tert-butyl formate	4.250	59	9005	7.0458577	ppb	#	1
111)	ISOBUTANOL	4.402	43	49932	225.3291888	ppb	#	71
112)	t-Amyl Alcohol	4.481	59	1871	5.2039226	ppb	#	82
113)	TERT-AMYL METHYL ETHER	4.359	73	73299	4.8753629	ppb	#	34
115)	N-BUTANOL	4.785	56	263078	2778.8232282	ppb	#	62
116)	Methyl Cyclohexane	4.688	83	1322011	102.2575611	ppb	#	47
117)	2-nitropropane	5.673	43	126995	110.1671388	ppb	#	62
118)	METHYL METHACRYLATE	5.034	41	1201087	303.4279029	ppb	#	14
119)	1,4-DIOXANE	5.144	88	2041	34.1753272	ppb	#	1
120)	n-octane	5.393	85	596737	107.8121703	ppb		94
121)	3,3-DIMETHYL-1-BUTANOL	6.288	57	52286	112.4177075	ppb	#	29
123)	ETHYL METHACRYLATE	5.868	69	111535	19.6129937	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.419	53	63680	44.0042514	ppb	#	1
125)	Cyclohexanone	7.669	55	60345	70.9106092	ppb	#	76
126)	PENTACHLOROETHANE	7.918	117	384860	123.0050940	ppb	#	11
127)	Hexachloroethane	8.581	117	13043	3.0077889	ppb	#	49

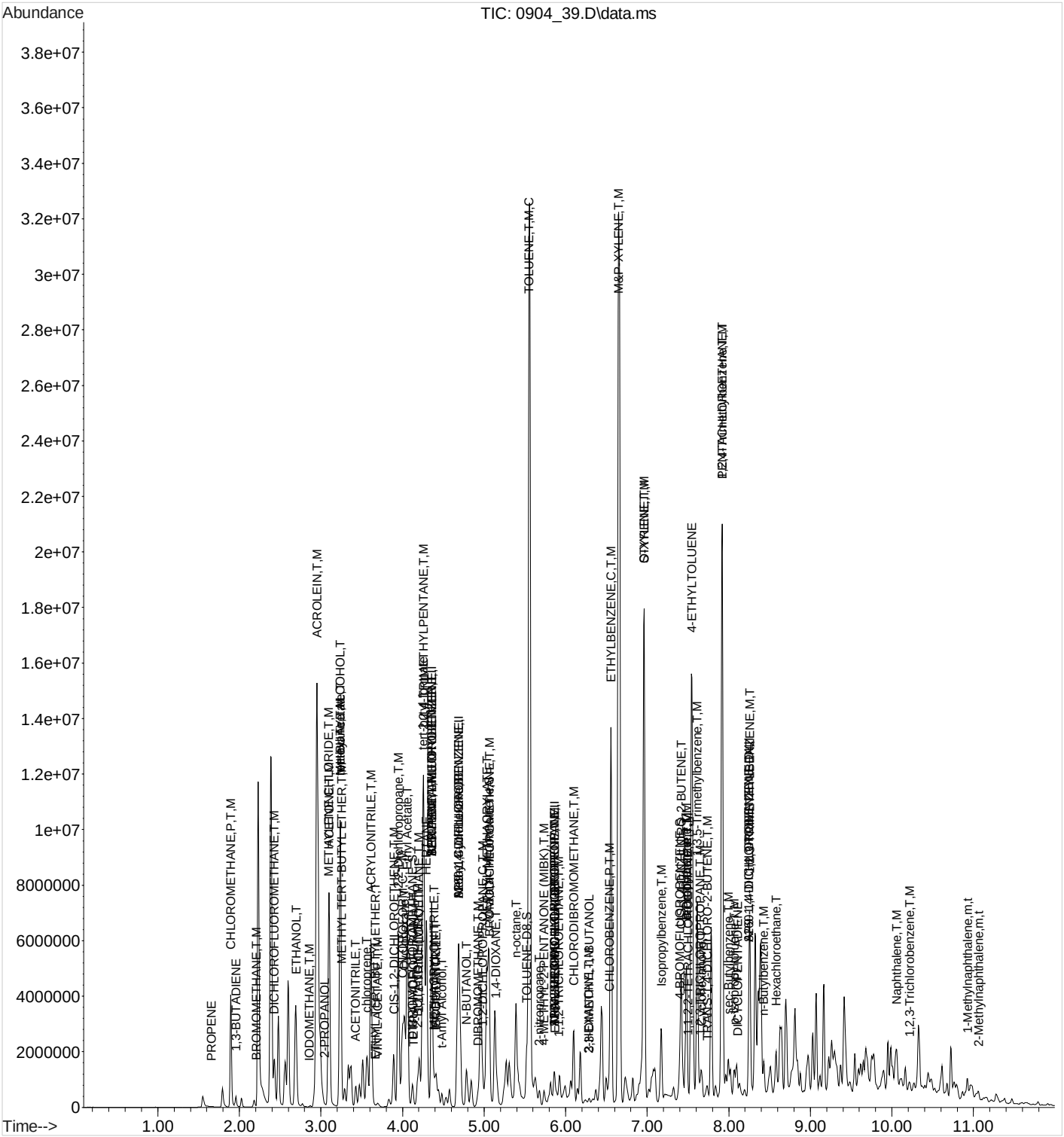
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 39.D
Acq On : 5 Sep 2015 7:10 am
Operator : 591
Sample : STD GROMS 20 ppm 15H18659
Misc : water 15G07402
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Sep 07 14:24:13 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

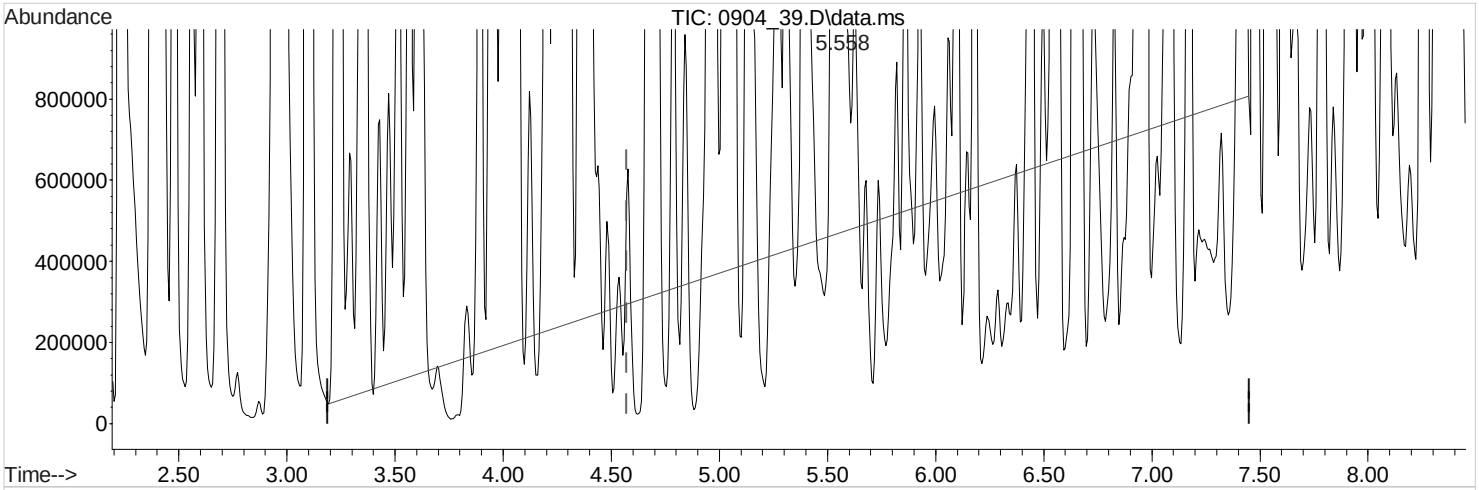


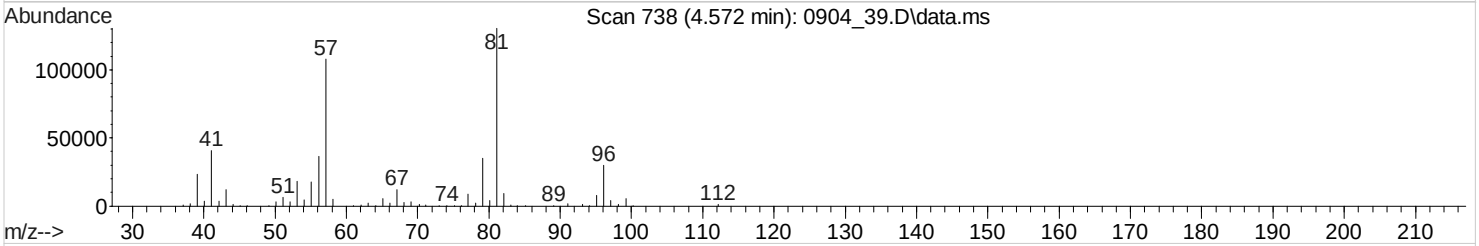
Quantitation Report (Qedit)

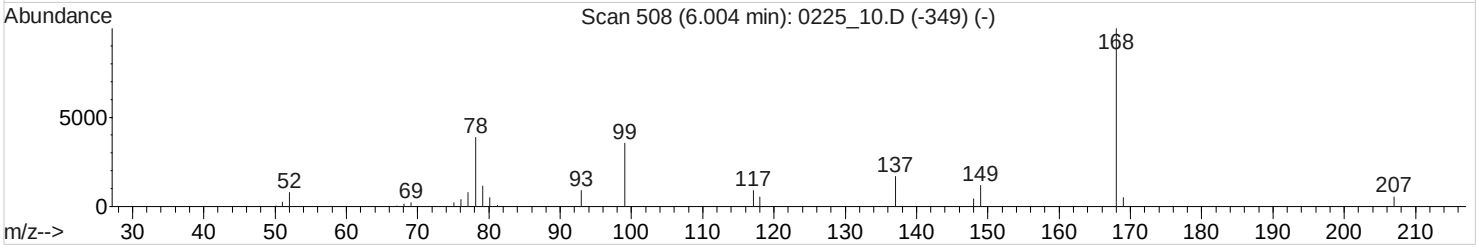
InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 39.D
Acq On : 5 Sep 2015 7:10 am
Operator : 591
Sample : STD GROMS 20 ppm 15H18659
Misc : water 15G07402
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Sep 07 14:23:52 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration







TIC: 0904_39.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

4.570min (0.000) 0.0000000 ppm m

response 185649619

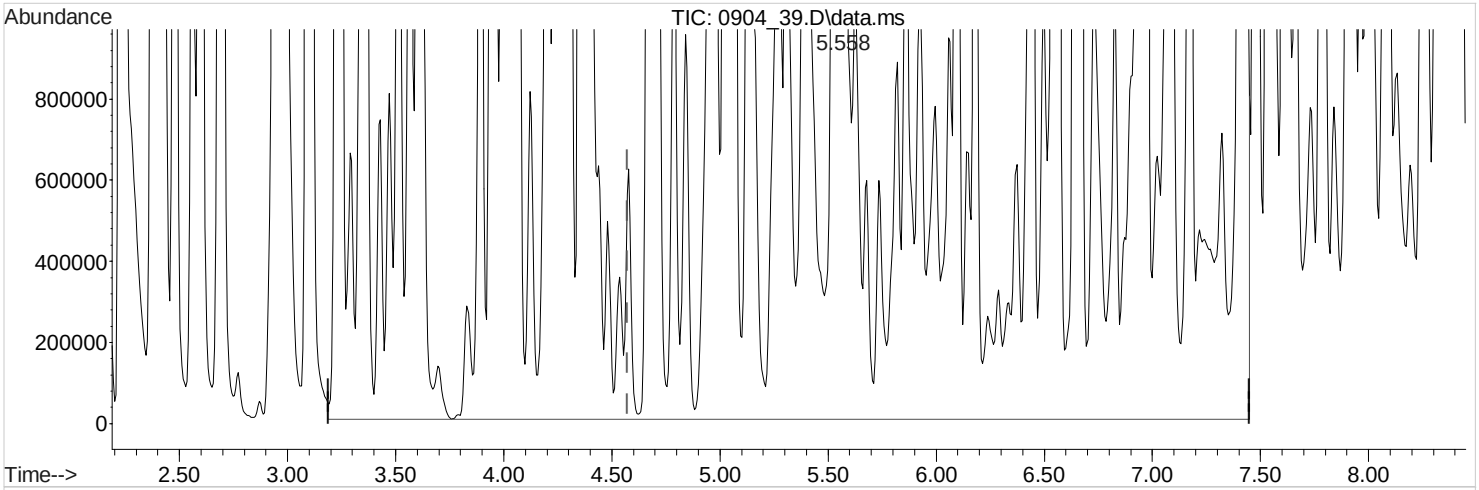
Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.34#
0.00	0.00	0.19#
0.00	0.00	0.00

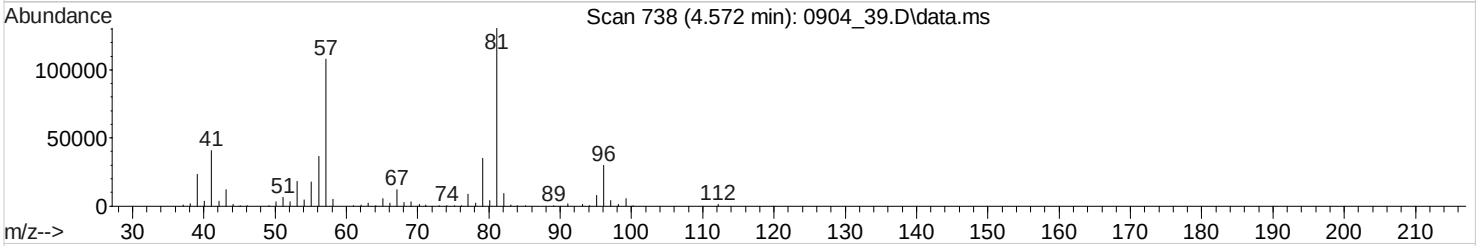
Quantitation Report (Qedit)

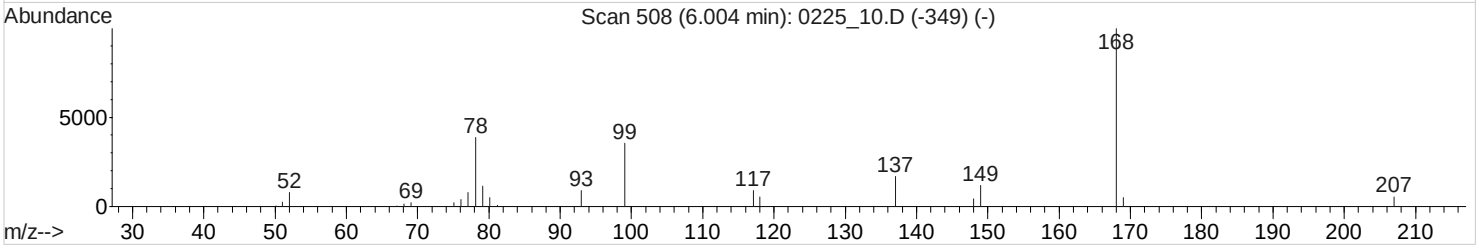
InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 39.D
Acq On : 5 Sep 2015 7:10 am
Operator : 591
Sample : STD GROMS 20 ppm 15H18659
Misc : water 15G07402
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Sep 07 14:23:52 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration







TIC: 0904_39.D\data.ms

(2) TPH (GC/MS) LOW FRACTION (H, M)

4.570min (0.000) 0.0000000 ppm m

response 383918799

Signal	Exp%	Act%
TIC	100	100
0.00	0.00	0.17#
0.00	0.00	0.09#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 17.D
Acq On : 4 Sep 2015 10:54 pm
Operator : 591
Sample : INSTBLK
Misc : water 15G07402
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 07 14:32:49 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.359	168	649765	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1069150	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.862	79	160829	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	455858	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.359	168	649765	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	1069150	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.862	79	160829	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	455858	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.122	111	329130	41.4096789	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.52%				
46) a,a,a-Trifluorotoluene	5.059	146	584981	42.1893011	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 105.47%				
50) TOLUENE-D8	5.521	98	1227032	40.8509081	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.13%				
68) 4-BROMOFLUOROBENZENE	7.401	95	461200	41.2892169	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.22%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC -5154258m		Below Cal			
8) BROMOMETHANE	2.206	94	1457	0.4661843	ppb	#	22
13) ACROLEIN	2.966	56	2438	2.7577269	ppb	#	76
16) ACETONE	3.136	43	10283	4.4464291	ppb		95
17) IODOMETHANE	2.857	142	6757	0.9140218	ppb		93
20) ACRYLONITRILE	3.599	53	1371	0.8034510	ppb	#	71
29) 2-BUTANONE (MEK)	4.183	43	5460	1.9202943	ppb	#	89
31) TETRAHYDROFURAN	4.122	42	1074	0.7311177	ppb	#	78
43) 1,2-DICHLOROPROPANE	5.059	62	9933	2.3347443	ppb	#	25
49) 4-METHYL-2-PENTANONE (...	5.771	43	6662	1.4696722	ppb		99
57) 2-HEXANONE	6.312	58	5988	3.0932245	ppb		78
78) tert-Butylbenzene	7.863	119	6074	0.3211579	ppb		96
80) sec-Butylbenzene	7.997	105	12760	0.4208738	ppb		98
81) 1,3-DICHLOROBENZENE	8.192	146	4010	0.3279292	ppb		88
82) p-Isopropyltoluene	8.101	119	9109	0.3674958	ppb		99
85) 1,4-DICHLOROBENZENE	8.259	146	4065	0.3362766	ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.277	105	14151	Below Cal		#	66
87) 1,2-DICHLOROBENZENE	8.593	146	4033	0.3464487	ppb		99
88) n-Butylbenzene	8.435	91	14724	0.5858342	ppb		94
89) 1,2-Dibromo-3-chloropr...	9.238	157	866	0.7301692	ppb		91
90) 1,2,4-Trichlorobenzene	9.786	180	10145	1.3764971	ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.743	225	5913	1.5194266	ppb		93
92) Naphthalene	10.059	128	39158	2.3068435	ppb		100
93) 1,2,3-Trichlorobenzene	10.212	180	13040	1.9768619	ppb		94
94) 1-Methylnaphthalene	10.929	142	47050	7.3583222	ppb		100
95) 2-Methylnaphthalene	11.063	142	40061	7.2322293	ppb		99
97) ETHANOL	2.704	45	1210	17.5911761	ppb	#	39
99) 2-PROPANOL	3.039	45	529	1.4329766	ppb	#	59
101) ACETONITRILE	3.416	41	771	1.4018175	ppb	#	8
108) METHACRYLONITRILE	4.353	67	1998	1.0121969	ppb	#	11
111) ISOBUTANOL	4.353	43	1336	5.1384412	ppb	#	1
116) Methyl Cyclohexane	4.688	83	11815	Below Cal		#	50
117) 2-nitropropane	5.771	43	6662	5.3020873	ppb	#	42

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 17.D
Acq On : 4 Sep 2015 10:54 pm
Operator : 591
Sample : INSTBLK
Misc : water 15G07402
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 07 14:32:49 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
119) 1,4-DIOXANE	5.144	88	2831	43.4896930	ppb		89
121) 3,3-DIMETHYL-1-BUTANOL	6.318	57	2891	5.7026169	ppb	#	38

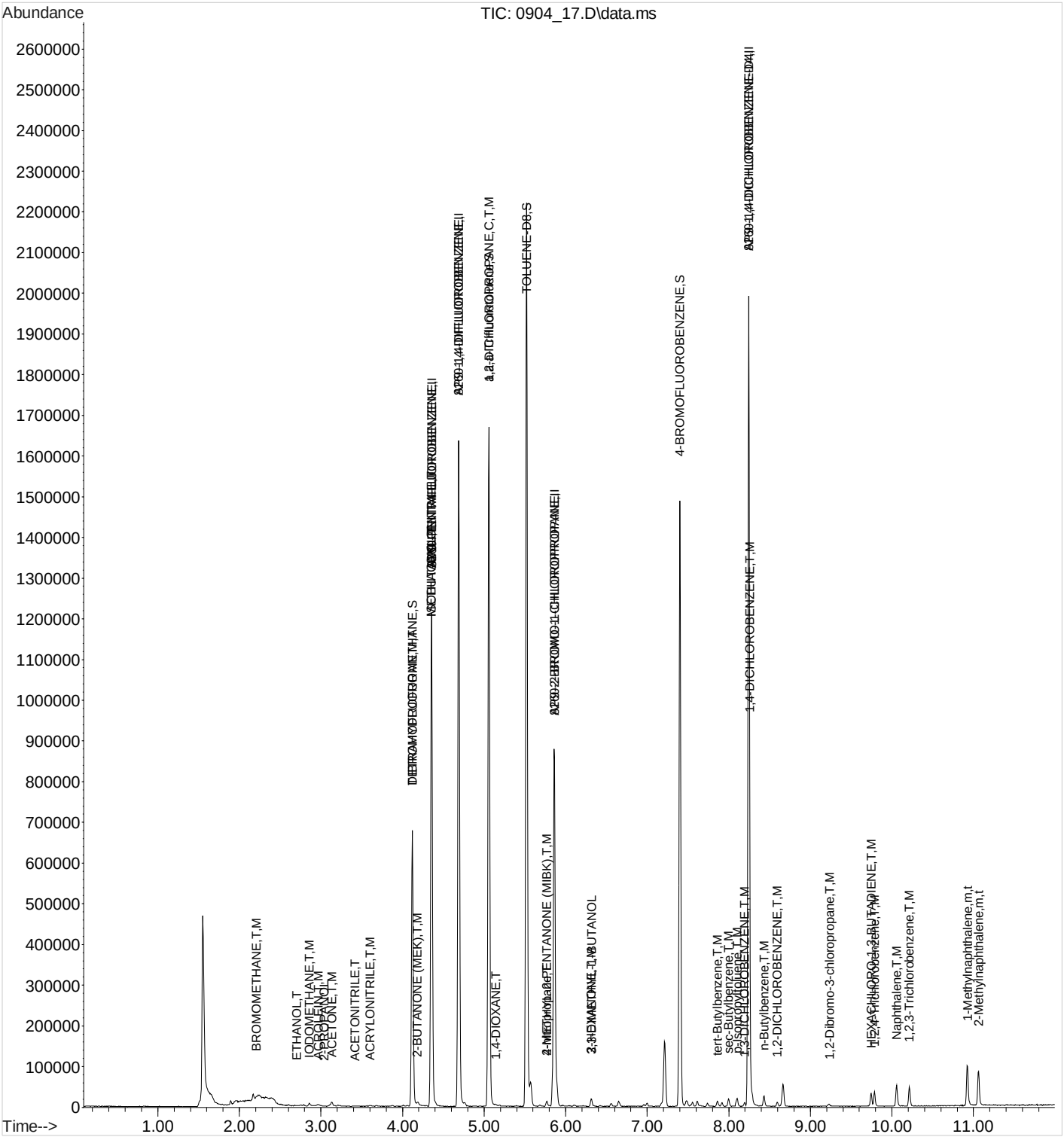
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 17.D
Acq On : 4 Sep 2015 10:54 pm
Operator : 591
Sample : INSTBLK
Misc : water 15G07402
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 07 14:32:49 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 17.D
Acq On : 4 Sep 2015 10:54 pm
Operator : 591
Sample : INSTBLK
Misc : water 15G07402
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 07 14:32:49 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 8260-PENTAFLUOROBENZENE	4.359	168	649765	40.0000000	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.688	114	1069150	40.0000000	ppb		0.00
53) 8260-2-BROMO-1-CHLOROP...	5.862	79	160829	40.0000000	ppb		0.00
84) 8260-1,4-DICHLOROBENZE...	8.247	152	455858	40.0000000	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.359	168	649765	40.0000000	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.688	114	1069150	40.0000000	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPR...	5.862	79	160829	40.0000000	ppb	#	0.00
128) AP9-1,4-DICHLOROBENZEN...	8.247	152	455858	40.0000000	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.122	111	329130	41.4096789	ppb		0.00
Spiked Amount 40.000	Range 79 - 121		Recovery = 103.52%				
46) a,a,a-Trifluorotoluene	5.059	146	584981	42.1893011	ppb		0.00
Spiked Amount 40.000	Range 90 - 116		Recovery = 105.47%				
50) TOLUENE-D8	5.521	98	1227032	40.8509081	ppb		0.00
Spiked Amount 40.000	Range 90 - 115		Recovery = 102.13%				
68) 4-BROMOFLUOROBENZENE	7.401	95	461200	41.2892169	ppb		0.00
Spiked Amount 40.000	Range 80 - 120		Recovery = 103.22%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	4.570	TIC -5154258m		Below Cal			
8) BROMOMETHANE	2.206	94	1457	0.4661843	ppb	#	22
13) ACROLEIN	2.966	56	2438	2.7577269	ppb	#	76
16) ACETONE	3.136	43	10283	4.4464291	ppb		95
17) IODOMETHANE	2.857	142	6757	0.9140218	ppb		93
20) ACRYLONITRILE	3.599	53	1371	0.8034510	ppb	#	71
29) 2-BUTANONE (MEK)	4.183	43	5460	1.9202943	ppb	#	89
31) TETRAHYDROFURAN	4.122	42	1074	0.7311177	ppb	#	78
43) 1,2-DICHLOROPROPANE	5.059	62	9933	2.3347443	ppb	#	25
49) 4-METHYL-2-PENTANONE (...	5.771	43	6662	1.4696722	ppb		99
57) 2-HEXANONE	6.312	58	5988	3.0932245	ppb		78
78) tert-Butylbenzene	7.863	119	6074	0.3211579	ppb		96
80) sec-Butylbenzene	7.997	105	12760	0.4208738	ppb		98
81) 1,3-DICHLOROBENZENE	8.192	146	4010	0.3279292	ppb		88
82) p-Isopropyltoluene	8.101	119	9109	0.3674958	ppb		99
85) 1,4-DICHLOROBENZENE	8.259	146	4065	0.3362766	ppb	#	1
86) 1,2,3-TRIMETHYLBENZENE	8.277	105	14151	Below Cal		#	66
87) 1,2-DICHLOROBENZENE	8.593	146	4033	0.3464487	ppb		99
88) n-Butylbenzene	8.435	91	14724	0.5858342	ppb		94
89) 1,2-Dibromo-3-chloropr...	9.238	157	866	0.7301692	ppb		91
90) 1,2,4-Trichlorobenzene	9.786	180	10145	1.3764971	ppb		97
91) HEXACHLORO-1,3-BUTADIENE	9.743	225	5913	1.5194266	ppb		93
92) Naphthalene	10.059	128	39158	2.3068435	ppb		100
93) 1,2,3-Trichlorobenzene	10.212	180	13040	1.9768619	ppb		94
94) 1-Methylnaphthalene	10.929	142	47050	7.3583222	ppb		100
95) 2-Methylnaphthalene	11.063	142	40061	7.2322293	ppb		99
97) ETHANOL	2.704	45	1210	17.5911761	ppb	#	39
99) 2-PROPANOL	3.039	45	529	1.4329766	ppb	#	59
101) ACETONITRILE	3.416	41	771	1.4018175	ppb	#	8
108) METHACRYLONITRILE	4.353	67	1998	1.0121969	ppb	#	11
111) ISOBUTANOL	4.353	43	1336	5.1384412	ppb	#	1
116) Methyl Cyclohexane	4.688	83	11815	Below Cal		#	50
117) 2-nitropropane	5.771	43	6662	5.3020873	ppb	#	42

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 17.D
Acq On : 4 Sep 2015 10:54 pm
Operator : 591
Sample : INSTBLK
Misc : water 15G07402
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 07 14:32:49 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
119) 1,4-DIOXANE	5.144	88	2831	43.4896930	ppb		89
121) 3,3-DIMETHYL-1-BUTANOL	6.318	57	2891	5.7026169	ppb	#	38

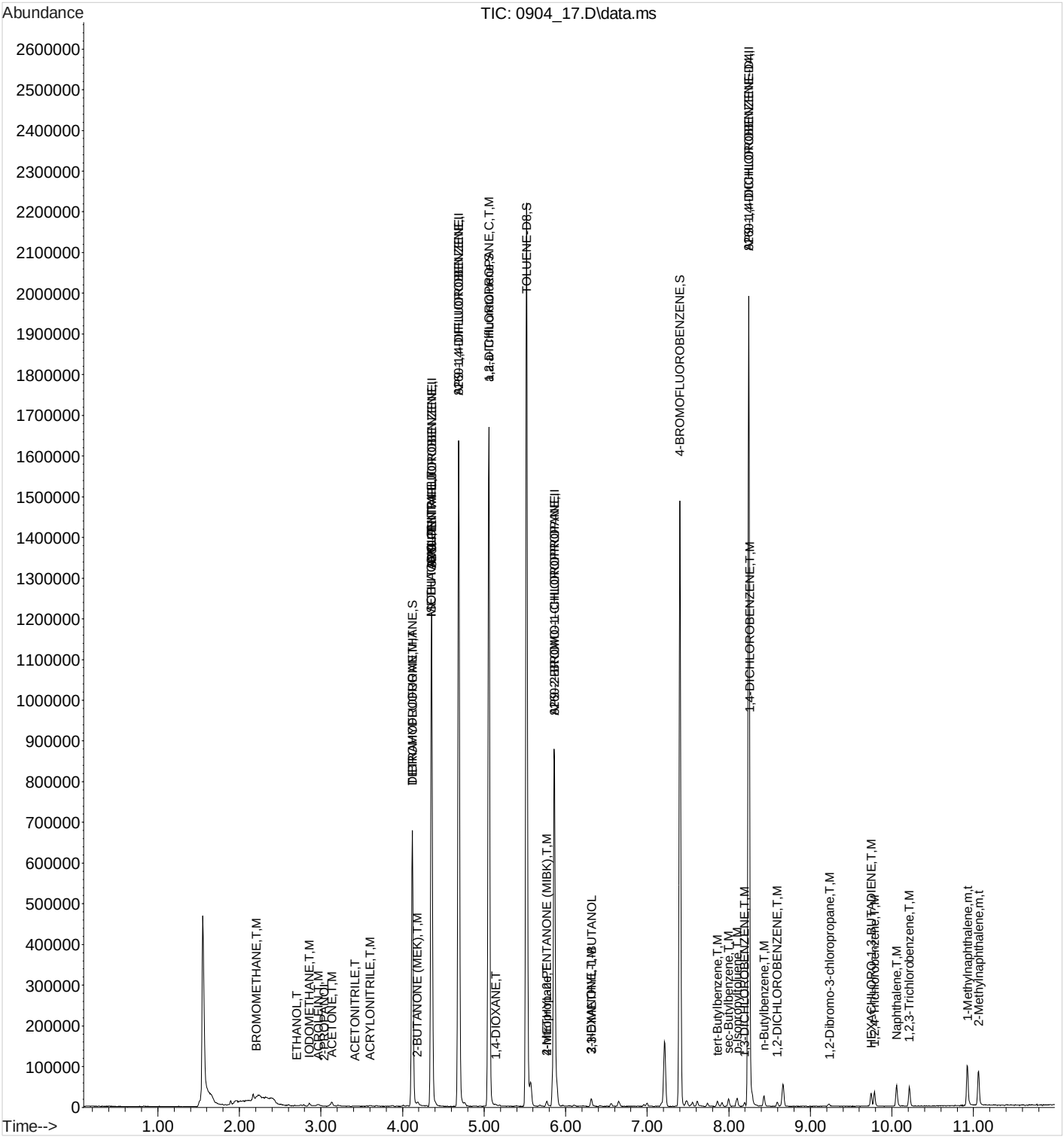
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

InstName : VOCMS30

Data Path : C:\msdchem\1\data\090415\
Data File : 0904 17.D
Acq On : 4 Sep 2015 10:54 pm
Operator : 591
Sample : INSTBLK
Misc : water 15G07402
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Sep 07 14:32:49 2015
Quant Method : C:\msdchem\1\methods\V830I04O.M
Quant Title : Env. Science Corp. 8260B/6210D/624 - VOCMS30
QLast Update : Mon Sep 07 14:20:13 2015
Response via : Initial Calibration



Instrument: VOCMS8
Method: V808J11O

Initial Calibration Run Log

File ID	Level ID	Date Analyzed
1011_04.D	.25	10/11/2015 6:48:00 PM
1011_05.D	.50	10/11/2015 7:12:00 PM
1011_06.D	1	10/11/2015 7:36:00 PM
1011_07.D	2	10/11/2015 8:01:00 PM
1011_08.D	5.0	10/11/2015 8:25:00 PM
1011_09.D	10	10/11/2015 8:49:00 PM
1011_10.D	25	10/11/2015 9:13:00 PM
1011_11.D	40	10/11/2015 9:37:00 PM
1011_12.D	75	10/11/2015 10:01:00 PM
1011_13.D	100	10/11/2015 10:25:00 PM
1011_14.D	200	10/11/2015 10:49:00 PM
1011_19.D	1A	10/12/2015 12:50:00 AM
1011_20.D	2.5A	10/12/2015 1:14:00 AM
1011_21.D	5A	10/12/2015 1:38:00 AM
1011_22.D	7.5A	10/12/2015 2:02:00 AM
1011_23.D	10A	10/12/2015 2:26:00 AM
1011_24.D	12A	10/12/2015 2:50:00 AM
1011_25.D	15A	10/12/2015 3:14:00 AM
1011_26.D	17A	10/12/2015 3:39:00 AM
1011_27.D	20A	10/12/2015 4:03:00 AM

Mint Miner 2.6.4 Directory Scan: y:\101115

12 Oct 2015 13:14

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\101115\1011_01.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_01.D					
5	Scanned	TA(1)	591	VOCMS8	INSTBLK (soil IS/SURR15H19728)
Scan File Path: y:\101115\1011_02.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_02.D					
0	Scanned		591	VOCMS8	INSTBLK (soil IS/SURR15H19728)
Scan File Path: y:\101115\1011_03.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_03.D					
0	Scanned		591	VOCMS8	INSTBLK (soil IS/SURR15H19728)
Scan File Path: y:\101115\1011_04.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_04.D					
12	Scanned	D(12)	591	VOCMS8	STD VMS 0.25 ppb 15J11486 (soil IS/SURR15H
Scan File Path: y:\101115\1011_05.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_05.D					
15	Scanned	D(15)	591	VOCMS8	STD VMS 0.5 ppb 15J11486 (soil IS/SURR15H1
Scan File Path: y:\101115\1011_06.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_06.D					
15	Scanned	D(15)	591	VOCMS8	STD VMS 1 ppb 15J11486 (soil IS/SURR15H19
Scan File Path: y:\101115\1011_06A.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_06.D					
15	Scanned	D(15)	591	VOCMS8	STD VMS 1 ppb 15J11486 (soil IS/SURR15H19
Scan File Path: y:\101115\1011_07.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_07.D					
19	Scanned	D(19)	591	VOCMS8	STD VMS 2 ppb 15J11486 (soil IS/SURR15H19
Scan File Path: y:\101115\1011_07A.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_07.D					
21	Scanned	D(19), QM(1)	591	VOCMS8	STD VMS 2 ppb 15J11486 (soil IS/SURR15H19
Scan File Path: y:\101115\1011_08A.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_08.D					
25	Scanned	D(23), QM(1)	591	VOCMS8	STD VMS 5 ppb 15J11486 (soil IS/SURR15H19
Scan File Path: y:\101115\1011_08.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_08.D					
23	Scanned	D(23)	591	VOCMS8	STD VMS 5 ppb 15J11486 (soil IS/SURR15H19

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\101115\1011_09.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_09.D					
26	Scanned	D(26)	591	VOCMS8	STD VMS 10 ppb 15J11486 (soil IS/SURR15H1
Scan File Path: y:\101115\1011_10.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_10.D					
85	Scanned	D(84), DP(1)	591	VOCMS8	MSTD VMS 25 ppb 15J11486 (soil IS/SURR15H
Scan File Path: y:\101115\1011_11.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_11.D					
28	Scanned	D(28)	591	VOCMS8	STD VMS 40 ppb 15J11486 (soil IS/SURR15H1
Scan File Path: y:\101115\1011_12.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_12.D					
29	Scanned	D(29)	591	VOCMS8	STD VMS 75 ppb 15J11486 (soil IS/SURR15H1
Scan File Path: y:\101115\1011_13.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_13.D					
29	Scanned	D(29)	591	VOCMS8	STD VMS 100 ppb 15J11486 (soil IS/SURR15H
Scan File Path: y:\101115\1011_14.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_14.D					
28	Scanned	D(28)	591	VOCMS8	STD VMS 200 ppb 15J11486 (soil IS/SURR15H
Scan File Path: y:\101115\1011_15.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_15.D					
0	Scanned		591	VOCMS8	INSTBLK (soil IS/SURR15H19728)
Scan File Path: y:\101115\1011_16.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_16.D					
0	Scanned		591	VOCMS8	SSCV (soil IS/SURR15H19728)
Scan File Path: y:\101115\1011_17.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_17.D					
0	Scanned		591	VOCMS8	INSTBLK (soil IS/SURR15H19728)
Scan File Path: y:\101115\1011_18.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_18.D					
0	Scanned		591	VOCMS8	STD VMS 0.5 a 15H20824 (soil IS/SURR15H19
Scan File Path: y:\101115\1011_19.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_19.D					
53	Scanned	D(35), DB(2), DP(1), DC(2), DK(3), DS(2)	591	VOCMS8	STD VMS 1 ppb 15H20824 (soil IS/SURR15H1

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\101115\1011_19A.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_19.D					
53	Scanned	D(35), DB(2), DP(1), DC(2), DK(3), DS(2)	591	VOCMS8	STD VMS 1 ppb 15H20824 (soil IS/SURR15H19
Scan File Path: y:\101115\1011_20.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_20.D					
52	Scanned	D(35), DB(2), DP(1), DC(2), DK(2), DS(2)	591	VOCMS8	STD VMS 2.5 ppb 15H20824 (soil IS/SURR15H
Scan File Path: y:\101115\1011_21.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_21.D					
56	Scanned	D(37), DB(2), DP(2), DC(2), DK(3), DS(2)	591	VOCMS8	STD VMS 5 ppb 15H20824 (soil IS/SURR15H19
Scan File Path: y:\101115\1011_22.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_22.D					
60	Scanned	D(41), DB(2), DP(2), DC(2), DK(3), DS(2)	591	VOCMS8	STD VMS 7.5 ppb 15H20824 (soil IS/SURR15H
Scan File Path: y:\101115\1011_23.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_23.D					
65	Scanned	D(45), DB(2), DP(2), DC(2), DK(4), DS(2)	591	VOCMS8	MSTD VMS 10a ppb 15H20824 (soil IS/SURR15
Scan File Path: y:\101115\1011_24.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_24.D					
61	Scanned	D(42), DB(2), DP(2), DC(2), DK(3), DS(2)	591	VOCMS8	STD VMS 12.5 ppb 15H20824 (soil IS/SURR15I
Scan File Path: y:\101115\1011_25.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_25.D					
62	Scanned	D(43), DB(2), DP(2), DC(2), DK(3), DS(2)	591	VOCMS8	STD VMS 15 ppb 15H20824 (soil IS/SURR15H1
Scan File Path: y:\101115\1011_26.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_26.D					
63	Scanned	D(44), DB(2), DP(2), DC(2), DK(3), DS(2)	591	VOCMS8	STD VMS 17.5 ppb 15H20824 (soil IS/SURR15I
Scan File Path: y:\101115\1011_27.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_27.D					
136	Scanned	D(94), DB(4), DP(4), DC(6), DK(8), DS(4)	591	VOCMS8	STD VMS 20 ppb 15H20824 (soil IS/SURR15H1
Scan File Path: y:\101115\1011_28.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_28.D					
0	Scanned		591	VOCMS8	INSTBLK (soil IS/SURR15H19728)

Level	Status	Code	Operator	Instrument	Sample ID
Scan File Path: y:\101115\1011_29.D					
Original Path: C:\MSDCHEM\1\DATA\101115\1011_29.D					
0	Scanned		591	VOCMS8	SSCV (soil IS/SURR15H19728)

D = Deletion of any analyte
DC = Deletion of a CCC
DP = Deletion of an SPCC
QM = Processed >3 times using the same method
DB = Deletion of a common contaminant
DK = Deletion of a spike compound
DS = Deletion of a surrogate
TA = Tune spectrum obtained by spectral averaging

ScanSummary.rpt

Total Files Scanned	33	Beginning Analyzed Date	10/11/2015 5:36:00PM
Methods	0	Ending Analyzed Date	10/12/2015 4:51:00AM
Samples	32	Analyzed Range	11 hours, 15 minutes
Tunes	1	Greatest Time Between Tunes	N/A
CCCs	0	Greatest Time Between CCCs	N/A

Distinct Method Last Updated count 0
Operators 1 Intruments 1

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS8
Computer Name : VOCCOMPJ
Released By : Amy Green
Date Released : 10/12/2015 11:22:38 AM
Run ID : 101115
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
1	1011_01	INSTBLK	V808J11O						1	1	10/11/15 1736	"soil IS/SURR15H19728"
2	1011_01	INSTBLK								1	10/11/15 1736	
3	1011_02	INSTBLK	V808J11O						1	1	10/11/15 1800	"soil IS/SURR15H19728"
4	1011_03	INSTBLK	V808J11O						1	1	10/11/15 1824	"soil IS/SURR15H19728"
5	1011_04	STD VMS 0.25 PPB 15J11486	V808J11O						1	1	10/11/15 1848	"soil IS/SURR15H19728"
6	1011_05	STD VMS 0.5 PPB 15J11486	V808J11O						1	1	10/11/15 1912	"soil IS/SURR15H19728"
7	1011_06	STD VMS 1 PPB 15J11486	V808J11O						1	1	10/11/15 1936	"soil IS/SURR15H19728"
8	1011_06A	RL VMS 1 PPB 15J11486	V808J11O						1	1	10/11/15 1936	"soil IS/SURR15H19728"
9	1011_07	STD VMS 2 PPB 15J11486	V808J11O						1	1	10/11/15 2001	"soil IS/SURR15H19728"
10	1011_07A	RL VMS 2 PPB 15J11486	V808J11O						1	1	10/11/15 2001	"soil IS/SURR15H19728"
11	1011_08	STD VMS 5 PPB 15J11486	V808J11O						1	1	10/11/15 2025	"soil IS/SURR15H19728"
12	1011_08A	RL VMS 5.0 PPB 15J11486	V808J11O						1	1	10/11/15 2025	"soil IS/SURR15H19728"
13	1011_09	STD VMS 10 PPB 15J11486	V808J11O						1	1	10/11/15 2049	"soil IS/SURR15H19728"
14	1011_10	MSTD VMS 25 PPB 15J11486	V808J11O						1	1	10/11/15 2113	"soil IS/SURR15H19728"
15	1011_11	STD VMS 40 PPB 15J11486	V808J11O						1	1	10/11/15 2137	"soil IS/SURR15H19728"

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS8
Computer Name : VOCCOMPJ
Released By : Amy Green
Date Released : 10/12/2015 11:22:38 AM
Run ID : 101115
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
16	1011_12	STD VMS 75 PPB 15J11486	V808J11O						1	1	10/11/15 2201	"soil IS/SURR15H19728"
17	1011_13	STD VMS 100 PPB 15J11486	V808J11O						1	1	10/11/15 2225	"soil IS/SURR15H19728"
18	1011_14	STD VMS 200 PPB 15J11486	V808J11O						1	1	10/11/15 2249	"soil IS/SURR15H19728"
19	1011_15	INSTBLK	V808J11O						1	1	10/11/15 2313	"soil IS/SURR15H19728"
20	1011_16	SSCV VMS 25 PPB 15J11487	V808J11O						1	1	10/11/15 2338	"soil IS/SURR15H19728"
21	1011_17	INSTBLK	V808J11O						1	1	10/12/15 0002	"soil IS/SURR15H19728"
22	1011_19	STD VMS 1 PPB 15H20824	V808J11O						1	1	10/12/15 0050	"soil IS/SURR15H19728"
23	1011_19A	RL VMS 1A PPB 15H20824	V808J11O						1	1	10/12/15 0050	"soil IS/SURR15H19728"
24	1011_20	STD VMS 2.5 PPB 15H20824	V808J11O						1	1	10/12/15 0114	"soil IS/SURR15H19728"
25	1011_21	STD VMS 5 PPB 15H20824	V808J11O						1	1	10/12/15 0138	"soil IS/SURR15H19728"
26	1011_22	STD VMS 7.5 PPB 15H20824	V808J11O						1	1	10/12/15 0202	"soil IS/SURR15H19728"
27	1011_23	MSTD VMS 10A PPB 15H20824	V808J11O						1	1	10/12/15 0226	"soil IS/SURR15H19728"
28	1011_24	STD VMS 12.5 PPB 15H20824	V808J11O						1	1	10/12/15 0250	"soil IS/SURR15H19728"
29	1011_25	STD VMS 15 PPB 15H20824	V808J11O						1	1	10/12/15 0314	"soil IS/SURR15H19728"

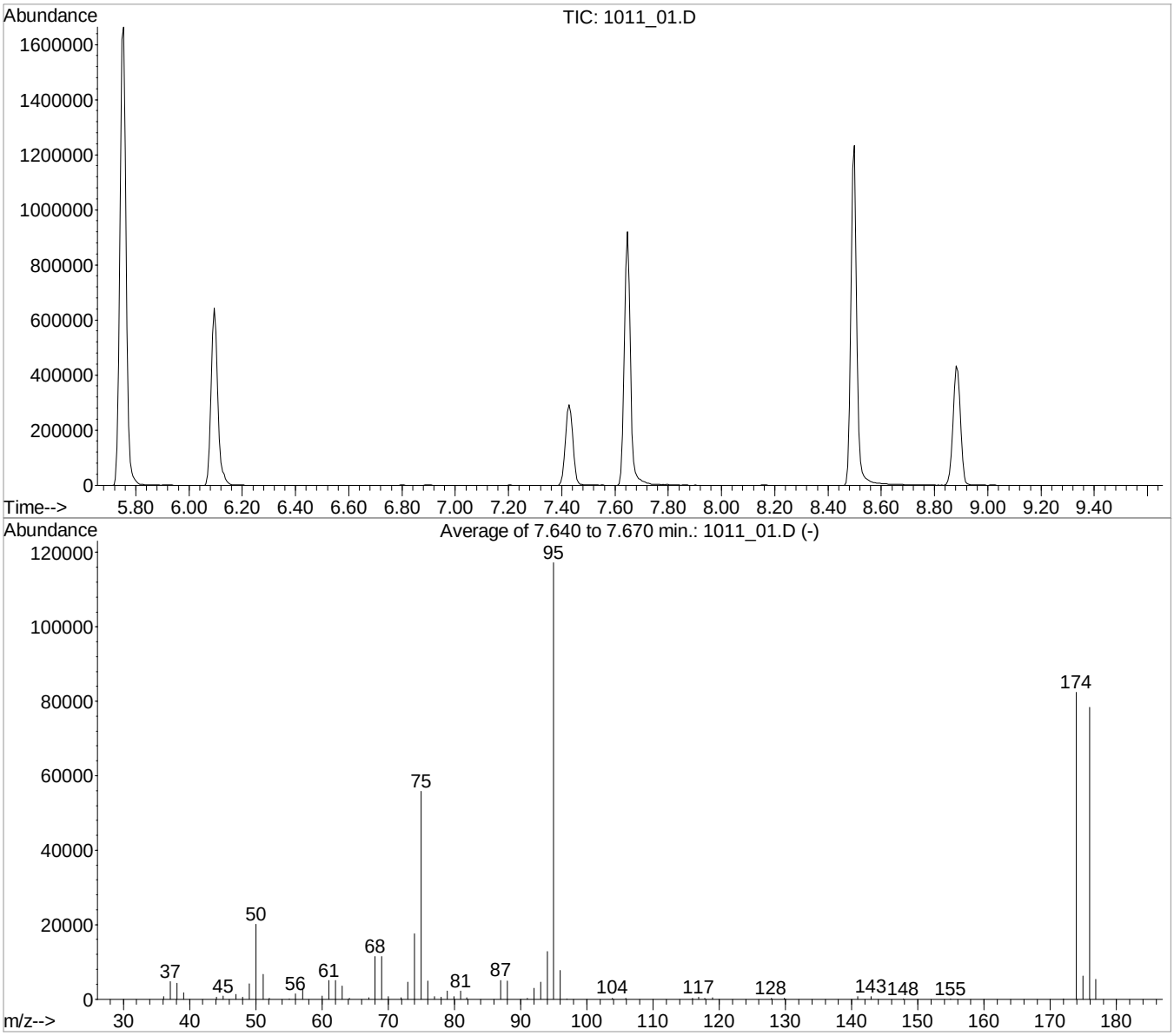
Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

Injection Log

Instrument ID : VOCMS8
Computer Name : VOCCOMPJ
Released By : Amy Green
Date Released : 10/12/2015 11:22:38 AM
Run ID : 101115
Signature : _____

#	File ID	Sample ID	Method	WG	Product	Matrix	Account #	State	Dil.	Mult.	Injected	Misc.
30	1011_26	STD VMS 17.5 PPB 15H20824	V808J11O						1	1	10/12/15 0339	"soil IS/SURR15H19728"
31	1011_27	STD VMS 20 PPB 15H20824	V808J11O						1	1	10/12/15 0403	"soil IS/SURR15H19728"
32	1011_28	INSTBLK	V808J11O						1	5	10/12/15 0427	"soil IS/SURR15H19728"
33	1011_29	SSCV AP9 10A PPB 15H19752	V808J11O						1	1	10/12/15 0451	"soil IS/SURR15H19728"

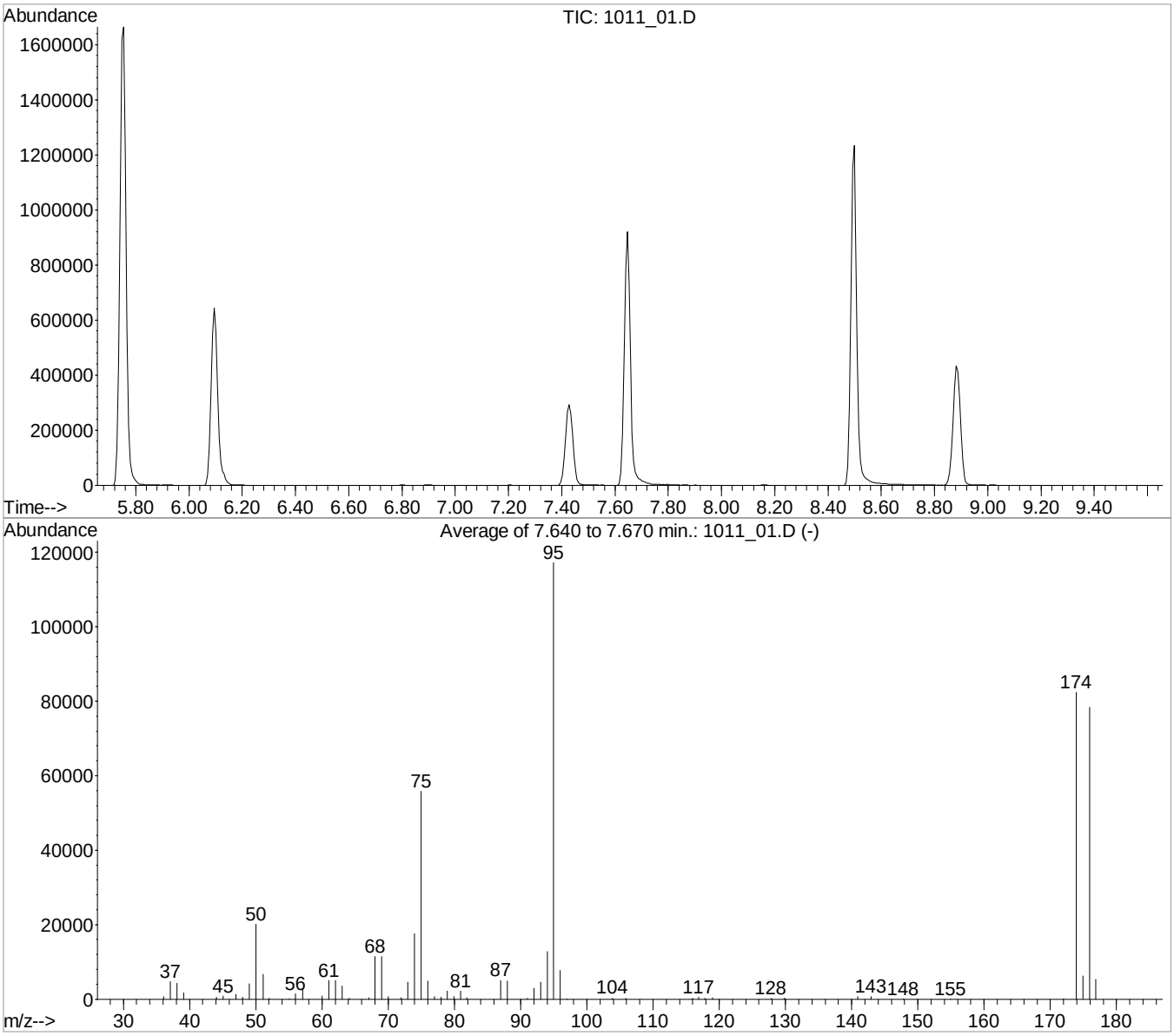
Data File : C:\MSDCHEM\1\DATA\101115\1011 01.D Vial: 1
Acq On : 11 Oct 2015 5:36 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08



Spectrum Information: Average of 7.640 to 7.670 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.1	20103	PASS
75	95	30	60	47.7	55880	PASS
95	95	100	100	100.0	117268	PASS
96	95	5	9	6.6	7724	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	70.2	82345	PASS
175	174	5	9	7.5	6174	PASS
176	174	95	101	95.3	78444	PASS
177	176	5	9	6.8	5372	PASS

Data File : C:\MSDCHEM\1\DATA\101115\1011 01.D Vial: 1
Acq On : 11 Oct 2015 5:36 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08



Spectrum Information: Average of 7.640 to 7.670 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.1	20103	PASS
75	95	30	60	47.7	55880	PASS
95	95	100	100	100.0	117268	PASS
96	95	5	9	6.6	7724	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	150	70.2	82345	PASS
175	174	5	9	7.5	6174	PASS
176	174	95	101	95.3	78444	PASS
177	176	5	9	6.8	5372	PASS

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 8260C
Review Protocol : SW846
Released By : Amy Green
Released On : 10/12/2015 11:22:38 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
8260-PENTAFLUOROBENZENE																									
TPH (GC/MS) LOW FRACTION																					0	0	0	1	
PROPENE	0.118	0.163	0.144	0.132	0.112	0.12	0.117	0.122	0.124	0.129	0.129										0.128242	11.09	0.111	1	
DICHLORODIFLUOROMETHANE		0.288	0.332	0.387	0.412	0.427	0.397	0.416	0.428	0.433	0.428										0.394819	12.15	0.121	1	0.1
CHLOROMETHANE			1.082	1.012	0.854	0.75	0.622	0.605	0.579	0.574	0.552										0.736825	27.35	0.997	0	0.1
VINYL CHLORIDE		0.486	0.502	0.589	0.564	0.578	0.57	0.585	0.594	0.581	0.604										0.565211	6.99	0.07	1	0.1
1,3-BUTADIENE	0.223	0.328	0.341	0.383	0.384	0.413	0.366	0.39	0.381	0.395	0.394										0.363547	14.45	0.145	1	
BROMOMETHANE		0.137	0.14	0.141	0.117	0.126	0.113	0.111	0.115	0.122	0.117										0.123916	9.22	0.092	1	0.1
CHLOROETHANE				0.258	0.29	0.268	0.211	0.192													0.243818	16.8	0.991	0	0.1
TRICHLOROFLUOROMETHANE		0.469	0.535	0.591	0.585	0.587	0.551	0.521	0.522	0.47	0.357										0.518853	13.89	0.139	1	0.1
DICHLOROFLUORMETHANE		0.64	0.696	0.768	0.773	0.813	0.761	0.788	0.778	0.772	0.651										0.74399	8.04	0.08	1	
ETHYL ETHER		0.294	0.312	0.345	0.348	0.372	0.351	0.367	0.38	0.377	0.386										0.353234	8.54	0.085	1	
ACROLEIN		0.072	0.071	0.087	0.079	0.088	0.092	0.092	0.096	0.094	0.095										0.086561	10.88	0.109	1	
1,1-DICHLOROETHENE		0.297	0.324	0.365	0.356	0.392	0.373	0.376	0.397	0.414	0.416										0.371076	10.25	0.102	1	0.1
1,1,2 -TRICHLOROTRIFLUOROETHANE		0.324	0.336	0.37	0.384	0.395	0.365	0.393	0.39	0.395	0.389										0.374091	6.81	0.068	1	0.1
ACETONE	0.242	0.289	0.263	0.288	0.264	0.277	0.257	0.256	0.272	0.254	0.233										0.26309	6.64	0.066	1	0.1
IODOMETHANE	0.234	0.256	0.235	0.271	0.3	0.369	0.416	0.46	0.466	0.486	0.473										0.360565	28.68	0.997	0	
CARBON DISULFIDE	1.157	1.408	1.356	1.385	1.33	1.392	1.394	1.432	1.465	1.553	1.528										1.40009	7.55	0.075	1	0.1
METHYLENE CHLORIDE		0.347	0.379	0.43	0.414	0.436	0.396	0.414	0.44	0.447	0.442										0.41451	7.75	0.078	1	0.1
ACRYLONITRILE		0.137	0.138	0.159	0.162	0.174	0.164	0.17	0.176	0.176	0.181										0.163876	9.39	0.094	1	
N-HEXANE		0.373	0.42	0.465	0.449	0.474	0.444	0.459	0.482	0.501	0.496										0.456235	8.34	0.083	1	
TRANS-1,2-DICHLOROETHENE		0.362	0.387	0.425	0.411	0.438	0.424	0.445	0.453	0.449	0.464										0.425967	7.43	0.074	1	0.1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 8260C
Review Protocol : SW846
Released By : Amy Green
Released On : 10/12/2015 11:22:38 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
METHYL TERT-BUTYL ETHER		1.125	1.068	1.245	1.178	1.248	1.2	1.264	1.318	1.292	1.371										1.230938	7.36	0.074	1	0.1
1,1-DICHLOROETHANE		0.601	0.711	0.751	0.724	0.787	0.758	0.81	0.829	0.839	0.865										0.767474	10.07	0.101	1	0.2
VINYL ACETATE	0.41	0.641	0.597	0.662	0.62	0.727	0.664	0.687	0.764	0.736	0.665										0.652154	14.55	0.145	1	
DI-ISOPROPYL ETHER		1.226	1.235	1.347	1.3	1.368	1.311	1.417	1.42	1.461	1.499										1.358483	6.78	0.068	1	
2,2-DICHLOROPROPANE		0.616	0.605	0.665	0.641	0.678	0.638	0.665	0.706	0.726	0.716										0.665618	6.23	0.062	1	
CIS-1,2-DICHLOROETHENE		0.375	0.426	0.455	0.438	0.472	0.449	0.458	0.464	0.473	0.484										0.449269	6.94	0.069	1	0.1
2-BUTANONE (MEK)	0.209	0.293	0.266	0.316	0.292	0.317	0.308	0.304	0.343	0.333	0.327										0.300812	12.43	0.124	1	0.1
BROMOCHLOROMETHANE		0.16	0.182	0.23	0.23	0.234	0.214	0.215	0.221	0.224	0.202										0.211291	11.26	0.113	1	
TETRAHYDROFURAN	0.196	0.192	0.148	0.163	0.153	0.162	0.155	0.155	0.165	0.164	0.159										0.164754	9.31	0.093	1	
CHLOROFORM	0.436	0.655	0.645	0.728	0.676	0.709	0.673	0.728	0.712	0.73	0.743										0.67588	12.73	0.127	1	0.2
DIBROMOFLUOROMETHANE	0.501	0.487	0.502	0.528	0.479	0.494	0.492	0.506	0.507	0.497	0.504										0.499796	2.57	0.026	1	
1,1,1-TRICHLOROETHANE		0.519	0.507	0.565	0.565	0.596	0.552	0.585	0.635	0.646	0.642										0.581113	8.47	0.085	1	0.1
CARBON TETRACHLORIDE		0.417	0.435	0.478	0.492	0.516	0.49	0.491	0.532	0.548	0.547										0.494668	8.89	0.089	1	0.1
1,1-DICHLOROPROPENE		0.474	0.534	0.603	0.56	0.604	0.576	0.606	0.628	0.639	0.641										0.586543	8.91	0.089	1	
2,2,4-TRIMETHYLPENTANE	1.508	2.261	2.245	2.441	2.375	2.519	2.465	2.531	2.578	2.683	2.754										2.396259	13.93	0.139	1	
HEPTANE		0.372	0.458	0.514	0.516	0.568	0.529	0.567	0.586	0.618	0.601										0.53281	13.9	0.139	1	
BENZENE		1.703	1.627	1.89	1.813	1.841	1.745	1.806	1.857	1.927	1.984										1.819298	5.84	0.058	1	0.5
1,2-DICHLOROETHANE		0.49	0.464	0.541	0.501	0.529	0.523	0.551	0.559	0.584	0.578										0.531972	7.28	0.073	1	0.1
8260-1,4-DIFLUOROBENZENE																									
TRICHLOROETHENE		0.222	0.228	0.237	0.236	0.25	0.234	0.248	0.24	0.226	0.248										0.236819	4.05	0.04	1	0.2
1,2-DICHLOROPROPANE		0.168	0.165	0.181	0.173	0.178	0.179	0.186	0.184	0.182	0.189										0.178454	4.25	0.042	1	0.1
DIBROMOMETHANE		0.095	0.106	0.113	0.118	0.126	0.123	0.134	0.131	0.125	0.133										0.120372	10.51	0.105	1	

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INITIAL CALIBRATION SUMMARY

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Review Method : 8260C
Review Protocol : SW846
Released By : Amy Green
Released On : 10/12/2015 11:22:38 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
BROMODICHLOROMETHANE		0.283	0.264	0.293	0.276	0.3	0.296	0.306	0.295	0.298	0.316										0.292548	5.1	0.051	1	0.2
A,A,A-TRIFLUOROTOLUENE	0.531	0.513	0.519	0.53	0.517	0.512	0.508	0.522	0.508	0.485	0.485										0.511911	3.02	0.03	1	
-CHLOROETHYL VINYL ETHER		0.102	0.106	0.116	0.115	0.126	0.131	0.136	0.136	0.128	0.134										0.122969	10.02	0.1	1	
CIS-1,3-DICHLOROPROPENE		0.326	0.343	0.392	0.367	0.384	0.392	0.409	0.412	0.395	0.429										0.384967	8.22	0.082	1	0.2
4-METHYL-2-PENTANONE (MIBK)		0.186	0.194	0.221	0.222	0.241	0.253	0.247	0.264	0.244	0.256										0.232824	11.28	0.113	1	0.1
TOLUENE-D8	1.235	1.264	1.21	1.239	1.148	1.214	1.153	1.276	1.179	1.155	1.145										1.20163	4.01	0.04	1	
TOLUENE	0.991	1.147	1.047	1.104	1.006	1.138	1.024	1.142	1.07	1.088	1.092										1.077083	5.11	0.051	1	0.4
TRANS-1,3-DICHLOROPROPENE		0.282	0.276	0.309	0.31	0.339	0.347	0.364	0.369	0.346	0.379										0.332022	10.85	0.109	1	0.1
8260-2-BROMO-1 -CHLOROPROPANE																									
1,1,2-TRICHLOROETHANE		1.064	1.14	1.178	1.204	1.213	1.186	1.198	1.232	1.206	1.143										1.176398	4.16	0.042	1	0.1
TETRACHLOROETHENE		0.883	1.069	1.054	1.117	1.047	1.077	1.014	1.034	1.01	1.026										1.032996	5.98	0.06	1	0.2
1,3-DICHLOROPROPANE	1.8	2.534	2.131	2.333	2.285	2.212	2.31	2.203	2.25	2.228	2.279										2.233142	7.9	0.079	1	
2-HEXANONE				0.539	0.689	0.767	0.788	0.774	0.828	0.841	0.856										0.760402	13.63	0.136	1	0.1
CHLORODIBROMOMETHANE		1.09	1.076	1.161	1.17	1.189	1.251	1.206	1.246	1.217	1.252										1.185772	5.32	0.053	1	0.1
1,2-DIBROMOETHANE		0.882	1.042	1.103	1.153	1.17	1.211	1.149	1.257	1.158	1.163										1.128785	9.2	0.092	1	0.1
CHLOROBENZENE	2.254	3.473	3.406	3.662	4.013	3.979	3.942	3.76	3.99	3.802	3.65										3.630055	13.81	0.138	1	0.5
1,1,1,2-TETRACHLOROETHANE		1.034	0.964	1.046	1.21	1.158	1.201	1.143	1.219	1.141	1.145										1.125942	7.5	0.075	1	
ETHYLBENZENE		1.897	2.001	2.124	2.288	2.15	2.183	2.093	2.286	2.162	2.245										2.1428	5.76	0.058	1	0.1
M&P-XYLENE		2.516	2.404	2.57	2.873	2.867	2.766	2.746	2.801	2.787	2.531										2.686143	6.17	0.062	1	0.1
O-XYLENE		2.199	2.26	2.382	2.649	2.561	2.629	2.524	2.678	2.694	2.558										2.513419	6.97	0.07	1	0.3
STYRENE		3.332	3.4	3.82	4.112	4.224	4.29	4.128	4.374	4.272	4.322										4.027356	9.48	0.095	1	0.3
BROMOFORM			0.608	0.686	0.681	0.72	0.751	0.754	0.82	0.752	0.766										0.726377	8.45	0.084	1	0.1

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Review Method : 8260C
Review Protocol : SW846
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Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
ISOPROPYLBENZENE	5.098	6.572	6.529	6.889	7.168	7.035	6.922	6.793	7.311	6.827	6.422										6.687701	8.85	0.088	1	0.1
4-BROMOFLUOROBENZENE	2.792	2.748	2.685	2.714	2.758	2.615	2.658	2.601	2.647	2.468	2.503										2.653572	3.86	0.039	1	
BROMOBENZENE	1.964	2.677	2.824	3.088	3.081	3.039	3	2.909	3.069	3.01	3.094										2.886897	11.52	0.115	1	
1,1,2,2-TETRACHLOROETHANE		1.26	1.448	1.568	1.639	1.686	1.679	1.673	1.695	1.593	1.669										1.590968	8.72	0.087	1	0.3
1,2,3-TRICHLOROPROPANE			0.404	0.416	0.466	0.498	0.494	0.46	0.501	0.473	0.454										0.46289	7.42	0.074	1	
TRANS-1,4-DICHLORO-2-BUTENE				0.269	0.41	0.429	0.493	0.479	0.52	0.508	0.529										0.454591	18.89	0.999	0	
N-PROPYLBENZENE	5.163	7.645	7.655	7.968	8.109	8.386	8.476	8.486	8.301	8.073	8.121										7.853077	11.94	0.119	1	
4-ETHYLTOLUENE	4.814	6.057	6.041	6.489	6.799	6.746	6.767	6.698	6.944	6.786	6.535										6.425066	9.5	0.095	1	
2-CHLOROTOLUENE	3.27	5.233	5.226	5.059	5.415	5.334	5.349	5.141	5.552	5.438	5.319										5.121402	12.29	0.123	1	
4-CHLOROTOLUENE	3.234	4.597	4.705	4.794	4.895	4.861	4.802	4.819	5.162	4.917	4.722										4.682471	10.71	0.107	1	
1,3,5-TRIMETHYLBENZENE		5.316	5.54	5.444	5.705	5.803	5.561	5.599	5.906	5.556	5.349										5.577756	3.36	0.034	1	
TERT-BUTYLBENZENE	2.802	4.21	4.428	4.729	4.857	4.724	5.029	4.581	4.836	4.849	4.59										4.512111	13.53	0.135	1	
1,2,4-TRIMETHYLBENZENE	3.54	4.593	4.893	5.036	5.304	5.529	5.516	5.4	5.752	5.459	5.301										5.120245	12.06	0.121	1	
SEC-BUTYLBENZENE	4.853	7.091	6.737	7.366	7.634	7.478	7.683	7.175	7.31	7.759	7.027										7.101182	11.36	0.114	1	
1,3-DICHLOROBENZENE	1.904	2.657	2.585	2.785	2.998	2.842	2.8	2.805	2.847	2.647	2.545										2.674036	10.76	0.108	1	0.6
P-ISOPROPYLTOLUENE		4.995	4.982	5.346	6.01	6.141	6.352	6.249	6.09	5.916	5.878										5.795738	8.71	0.087	1	
DICYCLOPENTADIENE		5.617	5.92	6.635	6.705	6.846	7.116	6.792	7.151	7.388	6.938										6.710897	8.19	0.082	1	
8260-1,4-DICHLOROBENZENE-D4																									
1,4-DICHLOROBENZENE	0.992	1.22	1.21	1.152	1.201	1.154	1.122	1.109	1.182	1.064	1.18										1.144261	6.02	0.06	1	
1,2,3-TRIMETHYLBENZENE	1.514	2.088	2.021	2.169	2.213	2.127	2.186	2.249	2.511	2.218	2.46										2.15966	11.99	0.12	1	
1,2-DICHLOROBENZENE		0.921	0.946	1.017	1.034	1.044	1.024	1.041	1.11	1.078	1.166										1.038081	6.91	0.069	1	0.4
N-BUTYLBENZENE		1.686	1.674	1.977	2.018	2.131	2.174	2.218	2.423	2.452	2.567										2.131984	14.25	0.143	1	

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1,2-DIBROMO-3-CHLOROPROPANE					0.102	0.111	0.125	0.124	0.146	0.136	0.159										0.128901	15.27	0.153	1	0.05
1,2,4-TRICHLOROBENZENE			0.446	0.561	0.565	0.629	0.641	0.652	0.683	0.659	0.765										0.622386	14.44	0.144	1	0.2
HEXACHLORO-1,3-BUTADIENE		0.319	0.317	0.348	0.356	0.338	0.34	0.364	0.383	0.368	0.393										0.352617	7.2	0.072	1	
NAPHTHALENE				1.629	1.599	1.642	1.749	1.801	1.948	1.77	2.064										1.775199	9.15	0.091	1	
1,2,3-TRICHLOROBENZENE		0.485	0.507	0.532	0.6	0.589	0.602	0.61	0.689	0.664	0.734										0.601159	13.23	0.132	1	
2-METHYLNAPHTHALENE		0.705	0.728	0.78	0.823	0.918	0.94	0.944	1.027	0.933	1.021										0.88188	13.11	0.131	1	
1-METHYLNAPHTHALENE		0.761	0.703	0.833	0.902	0.938	0.907	0.905	0.901	0.845	0.94										0.863558	9.11	0.091	1	
AP9-PENTAFLUOROBENZENE																									
ETHANOL												0.006	0.007	0.007	0.007	0.007	0.008	0.007	0.007	0.007	0.007077	8.69	0.087	1	
BROMOETHANE												0.321	0.334	0.37	0.347	0.365	0.373	0.369	0.36	0.382	0.357787	5.58	0.056	1	
2-PROPANOL												0.032	0.039	0.04	0.039	0.042	0.048	0.04	0.039	0.039	0.039593	10.47	0.105	1	
METHYL ACETATE												0.369	0.402	0.379	0.384	0.396	0.406	0.358	0.361	0.383	0.382028	4.55	0.045	1	0.1
ACETONITRILE												0.064	0.069	0.067	0.068	0.069	0.079	0.067	0.068	0.068	0.068815	6.13	0.061	1	
ALLYL CHLORIDE												0.233	0.245	0.255	0.247	0.253	0.254	0.249	0.237	0.253	0.247308	3.11	0.031	1	
TERT-BUTYL ALCOHOL												0.086	0.097	0.091	0.087	0.091	0.099	0.08	0.085	0.085	0.088899	6.7	0.067	1	
CHLOROPRENE												0.735	0.788	0.807	0.771	0.789	0.818	0.796	0.799	0.805	0.789699	3.12	0.031	1	
ETHYL TERT-BUTYL ETHER												1.4	1.325	1.359	1.374	1.321	1.366	1.33	1.337	1.355	1.351952	1.92	0.019	1	
PROPIONITRILE												0.084	0.088	0.088	0.086	0.085	0.096	0.085	0.084	0.087	0.086718	4.25	0.043	1	
ETHYL ACETATE												0.499	0.507	0.498	0.484	0.501	0.529	0.493	0.494	0.499	0.500533	2.51	0.025	1	
METHACRYLONITRILE												0.226	0.234	0.226	0.218	0.226	0.244	0.224	0.217	0.232	0.227446	3.66	0.037	1	
CYCLOHEXANE												1.199	1.183	1.238	1.209	1.248	1.283	1.238	1.206	1.245	1.227759	2.51	0.025	1	0.1
TERT-BUTYL FORMATE												0.372	0.372	0.381	0.38	0.387	0.388	0.379	0.391	0.381	0.381257	1.74	0.017	1	

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12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 8260C
Review Protocol : SW846
Released By : Amy Green
Released On : 10/12/2015 11:22:38 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur	RF
ISOBUTANOL												0.036	0.036	0.034	0.037	0.039	0.044	0.035	0.038	0.036	0.037306	7.95	0.079	1	
T-AMYL ALCOHOL												0.058	0.064	0.06	0.06	0.064	0.07	0.056	0.056	0.056	0.060322	8.01	0.08	1	
TERT-AMYL METHYL ETHER												1.632	1.669	1.606	1.587	1.614	1.546	1.596	1.578	1.64	1.607601	2.27	0.023	1	
AP9-1,4-DIFLUOROBENZENE																									
N-BUTANOL												0.009	0.01	0.011	0.011	0.011	0.014	0.011	0.012	0.01	0.011075	11.54	0.115	1	
METHYL CYCLOHEXANE												1.102	0.867	0.794	0.779	0.759	0.804	0.75	0.776	0.746	0.819583	13.68	0.137	1	0.1
2-NITROPROPANE												0.065	0.07	0.072	0.08	0.08	0.09	0.08	0.084	0.08	0.077769	9.58	0.096	1	
METHYL METHACRYLATE												0.227	0.233	0.239	0.231	0.232	0.25	0.222	0.249	0.223	0.233798	4.36	0.044	1	
1,4-DIOXANE												0.003	0.004	0.004	0.004	0.004	0.004	0.003	0.004	0.003	0.003604	10.02	0.1	1	
N-OCTANE												0.273	0.293	0.313	0.311	0.311	0.333	0.32	0.327	0.312	0.310344	5.78	0.058	1	
3,3-DIMETHYL-1-BUTANOL																					0	0	0	1	
AP9-2-BROMO-1 -CHLOROPROPANE																									
ETHYL METHACRYLATE												1.463	1.563	1.621	1.788	1.746	1.868	1.779	1.85	1.831	1.723178	8.21	0.082	1	
CIS-1,4-DICHLORO-2-BUTENE												0.389	0.41	0.434	0.506	0.499	0.523	0.508	0.526	0.48	0.475082	10.74	0.107	1	
CYCLOHEXANONE																					0	0	0	1	
PENTACHLOROETHANE												0.77	0.703	0.733	0.834	0.749	0.832	0.738	0.768	0.722	0.760818	6.03	0.06	1	
HEXACHLOROETHANE												0.945	0.921	0.944	1.073	1.089	1.129	1.076	1.086	1.033	1.032851	7.4	0.074	1	
AP9-1,4-DICHLOROBENZENE-D4																									

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 601-602
Review Protocol : EPA
Released By : Amy Green
Released On : 10/12/2015 11:19:39 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE	0.118	0.163	0.144	0.132	0.112	0.12	0.117	0.122	0.124	0.129	0.129										0.128242	11.09	0.111	1
DICHLORODIFLUOROMETHANE		0.288	0.332	0.387	0.412	0.427	0.397	0.416	0.428	0.433	0.428										0.394819	12.15	0.121	1
CHLOROMETHANE			1.082	1.012	0.854	0.75	0.622	0.605	0.579	0.574	0.552										0.736825	27.35	0.997	0
VINYL CHLORIDE		0.486	0.502	0.589	0.564	0.578	0.57	0.585	0.594	0.581	0.604										0.565211	6.99	0.07	1
1,3-BUTADIENE	0.223	0.328	0.341	0.383	0.384	0.413	0.366	0.39	0.381	0.395	0.394										0.363547	14.45	0.145	1
BROMOMETHANE		0.137	0.14	0.141	0.117	0.126	0.113	0.111	0.115	0.122	0.117										0.123916	9.22	0.092	1
CHLOROETHANE				0.258	0.29	0.268	0.211	0.192													0.243818	16.8	0.991	0
TRICHLOROFLUOROMETHANE		0.469	0.535	0.591	0.585	0.587	0.551	0.521	0.522	0.47	0.357										0.518853	13.89	0.139	1
DICHLOROFLUORMETHANE		0.64	0.696	0.768	0.773	0.813	0.761	0.788	0.778	0.772	0.651										0.74399	8.04	0.08	1
ETHYL ETHER		0.294	0.312	0.345	0.348	0.372	0.351	0.367	0.38	0.377	0.386										0.353234	8.54	0.085	1
ACROLEIN		0.072	0.071	0.087	0.079	0.088	0.092	0.092	0.096	0.094	0.095										0.086561	10.88	0.109	1
1,1-DICHLOROETHENE		0.297	0.324	0.365	0.356	0.392	0.373	0.376	0.397	0.414	0.416										0.371076	10.25	0.102	1
1,1,2 -TRICHLOROTRIFLUOROETHANE		0.324	0.336	0.37	0.384	0.395	0.365	0.393	0.39	0.395	0.389										0.374091	6.81	0.068	1
ACETONE	0.242	0.289	0.263	0.288	0.264	0.277	0.257	0.256	0.272	0.254	0.233										0.26309	6.64	0.066	1
IODOMETHANE	0.234	0.256	0.235	0.271	0.3	0.369	0.416	0.46	0.466	0.486	0.473										0.360565	28.68	0.997	0
CARBON DISULFIDE	1.157	1.408	1.356	1.385	1.33	1.392	1.394	1.432	1.465	1.553	1.528										1.40009	7.55	0.075	1
METHYLENE CHLORIDE		0.347	0.379	0.43	0.414	0.436	0.396	0.414	0.44	0.447	0.442										0.41451	7.75	0.078	1
ACRYLONITRILE		0.137	0.138	0.159	0.162	0.174	0.164	0.17	0.176	0.176	0.181										0.163876	9.39	0.094	1
N-HEXANE		0.373	0.42	0.465	0.449	0.474	0.444	0.459	0.482	0.501	0.496										0.456235	8.34	0.083	1
TRANS-1,2-DICHLOROETHENE		0.362	0.387	0.425	0.411	0.438	0.424	0.445	0.453	0.449	0.464										0.425967	7.43	0.074	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 601-602
Review Protocol : EPA
Released By : Amy Green
Released On : 10/12/2015 11:19:39 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER		1.125	1.068	1.245	1.178	1.248	1.2	1.264	1.318	1.292	1.371										1.230938	7.36	0.074	1
1,1-DICHLOROETHANE		0.601	0.711	0.751	0.724	0.787	0.758	0.81	0.829	0.839	0.865										0.767474	10.07	0.101	1
VINYL ACETATE	0.41	0.641	0.597	0.662	0.62	0.727	0.664	0.687	0.764	0.736	0.665										0.652154	14.55	0.145	1
DI-ISOPROPYL ETHER		1.226	1.235	1.347	1.3	1.368	1.311	1.417	1.42	1.461	1.499										1.358483	6.78	0.068	1
2,2-DICHLOROPROPANE		0.616	0.605	0.665	0.641	0.678	0.638	0.665	0.706	0.726	0.716										0.665618	6.23	0.062	1
CIS-1,2-DICHLOROETHENE		0.375	0.426	0.455	0.438	0.472	0.449	0.458	0.464	0.473	0.484										0.449269	6.94	0.069	1
2-BUTANONE (MEK)	0.209	0.293	0.266	0.316	0.292	0.317	0.308	0.304	0.343	0.333	0.327										0.300812	12.43	0.124	1
BROMOCHLOROMETHANE		0.16	0.182	0.23	0.23	0.234	0.214	0.215	0.221	0.224	0.202										0.211291	11.26	0.113	1
TETRAHYDROFURAN	0.196	0.192	0.148	0.163	0.153	0.162	0.155	0.155	0.165	0.164	0.159										0.164754	9.31	0.093	1
CHLOROFORM	0.436	0.655	0.645	0.728	0.676	0.709	0.673	0.728	0.712	0.73	0.743										0.67588	12.73	0.127	1
DIBROMOFLUOROMETHANE	0.501	0.487	0.502	0.528	0.479	0.494	0.492	0.506	0.507	0.497	0.504										0.499796	2.57	0.026	1
1,1,1-TRICHLOROETHANE		0.519	0.507	0.565	0.565	0.596	0.552	0.585	0.635	0.646	0.642										0.581113	8.47	0.085	1
CARBON TETRACHLORIDE		0.417	0.435	0.478	0.492	0.516	0.49	0.491	0.532	0.548	0.547										0.494668	8.89	0.089	1
1,1-DICHLOROPROPENE		0.474	0.534	0.603	0.56	0.604	0.576	0.606	0.628	0.639	0.641										0.586543	8.91	0.089	1
2,2,4-TRIMETHYLPENTANE	1.508	2.261	2.245	2.441	2.375	2.519	2.465	2.531	2.578	2.683	2.754										2.396259	13.93	0.139	1
HEPTANE		0.372	0.458	0.514	0.516	0.568	0.529	0.567	0.586	0.618	0.601										0.53281	13.9	0.139	1
BENZENE		1.703	1.627	1.89	1.813	1.841	1.745	1.806	1.857	1.927	1.984										1.819298	5.84	0.058	1
1,2-DICHLOROETHANE		0.49	0.464	0.541	0.501	0.529	0.523	0.551	0.559	0.584	0.578										0.531972	7.28	0.073	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE		0.222	0.228	0.237	0.236	0.25	0.234	0.248	0.24	0.226	0.248										0.236819	4.05	0.04	1
1,2-DICHLOROPROPANE		0.168	0.165	0.181	0.173	0.178	0.179	0.186	0.184	0.182	0.189										0.178454	4.25	0.042	1
DIBROMOMETHANE		0.095	0.106	0.113	0.118	0.126	0.123	0.134	0.131	0.125	0.133										0.120372	10.51	0.105	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 601-602
Review Protocol : EPA
Released By : Amy Green
Released On : 10/12/2015 11:19:39 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE		0.283	0.264	0.293	0.276	0.3	0.296	0.306	0.295	0.298	0.316										0.292548	5.1	0.051	1
A,A,A-TRIFLUOROTOLUENE	0.531	0.513	0.519	0.53	0.517	0.512	0.508	0.522	0.508	0.485	0.485										0.511911	3.02	0.03	1
-CHLOROETHYL VINYL ETHER		0.102	0.106	0.116	0.115	0.126	0.131	0.136	0.136	0.128	0.134										0.122969	10.02	0.1	1
CIS-1,3-DICHLOROPROPENE		0.326	0.343	0.392	0.367	0.384	0.392	0.409	0.412	0.395	0.429										0.384967	8.22	0.082	1
4-METHYL-2-PENTANONE (MIBK)		0.186	0.194	0.221	0.222	0.241	0.253	0.247	0.264	0.244	0.256										0.232824	11.28	0.113	1
TOLUENE-D8	1.235	1.264	1.21	1.239	1.148	1.214	1.153	1.276	1.179	1.155	1.145										1.20163	4.01	0.04	1
TOLUENE	0.991	1.147	1.047	1.104	1.006	1.138	1.024	1.142	1.07	1.088	1.092										1.077083	5.11	0.051	1
TRANS-1,3-DICHLOROPROPENE		0.282	0.276	0.309	0.31	0.339	0.347	0.364	0.369	0.346	0.379										0.332022	10.85	0.109	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE		1.064	1.14	1.178	1.204	1.213	1.186	1.198	1.232	1.206	1.143										1.176398	4.16	0.042	1
TETRACHLOROETHENE		0.883	1.069	1.054	1.117	1.047	1.077	1.014	1.034	1.01	1.026										1.032996	5.98	0.06	1
1,3-DICHLOROPROPANE	1.8	2.534	2.131	2.333	2.285	2.212	2.31	2.203	2.25	2.228	2.279										2.233142	7.9	0.079	1
2-HEXANONE				0.539	0.689	0.767	0.788	0.774	0.828	0.841	0.856										0.760402	13.63	0.136	1
CHLORODIBROMOMETHANE		1.09	1.076	1.161	1.17	1.189	1.251	1.206	1.246	1.217	1.252										1.185772	5.32	0.053	1
1,2-DIBROMOETHANE		0.882	1.042	1.103	1.153	1.17	1.211	1.149	1.257	1.158	1.163										1.128785	9.2	0.092	1
CHLOROBENZENE	2.254	3.473	3.406	3.662	4.013	3.979	3.942	3.76	3.99	3.802	3.65										3.630055	13.81	0.138	1
1,1,1,2-TETRACHLOROETHANE		1.034	0.964	1.046	1.21	1.158	1.201	1.143	1.219	1.141	1.145										1.125942	7.5	0.075	1
ETHYLBENZENE		1.897	2.001	2.124	2.288	2.15	2.183	2.093	2.286	2.162	2.245										2.1428	5.76	0.058	1
M&P-XYLENE		2.516	2.404	2.57	2.873	2.867	2.766	2.746	2.801	2.787	2.531										2.686143	6.17	0.062	1
O-XYLENE		2.199	2.26	2.382	2.649	2.561	2.629	2.524	2.678	2.694	2.558										2.513419	6.97	0.07	1
STYRENE		3.332	3.4	3.82	4.112	4.224	4.29	4.128	4.374	4.272	4.322										4.027356	9.48	0.095	1
BROMOFORM			0.608	0.686	0.681	0.72	0.751	0.754	0.82	0.752	0.766										0.726377	8.45	0.084	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 601-602
Review Protocol : EPA
Released By : Amy Green
Released On : 10/12/2015 11:19:39 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOPROPYLBENZENE	5.098	6.572	6.529	6.889	7.168	7.035	6.922	6.793	7.311	6.827	6.422										6.687701	8.85	0.088	1
4-BROMOFLUOROBENZENE	2.792	2.748	2.685	2.714	2.758	2.615	2.658	2.601	2.647	2.468	2.503										2.653572	3.86	0.039	1
BROMOBENZENE	1.964	2.677	2.824	3.088	3.081	3.039	3	2.909	3.069	3.01	3.094										2.886897	11.52	0.115	1
1,1,2,2-TETRACHLOROETHANE		1.26	1.448	1.568	1.639	1.686	1.679	1.673	1.695	1.593	1.669										1.590968	8.72	0.087	1
1,2,3-TRICHLOROPROPANE			0.404	0.416	0.466	0.498	0.494	0.46	0.501	0.473	0.454										0.46289	7.42	0.074	1
TRANS-1,4-DICHLORO-2-BUTENE				0.269	0.41	0.429	0.493	0.479	0.52	0.508	0.529										0.454591	18.89	0.999	0
N-PROPYLBENZENE	5.163	7.645	7.655	7.968	8.109	8.386	8.476	8.486	8.301	8.073	8.121										7.853077	11.94	0.119	1
4-ETHYLTOLUENE	4.814	6.057	6.041	6.489	6.799	6.746	6.767	6.698	6.944	6.786	6.535										6.425066	9.5	0.095	1
2-CHLOROTOLUENE	3.27	5.233	5.226	5.059	5.415	5.334	5.349	5.141	5.552	5.438	5.319										5.121402	12.29	0.123	1
4-CHLOROTOLUENE	3.234	4.597	4.705	4.794	4.895	4.861	4.802	4.819	5.162	4.917	4.722										4.682471	10.71	0.107	1
1,3,5-TRIMETHYLBENZENE		5.316	5.54	5.444	5.705	5.803	5.561	5.599	5.906	5.556	5.349										5.577756	3.36	0.034	1
TERT-BUTYLBENZENE	2.802	4.21	4.428	4.729	4.857	4.724	5.029	4.581	4.836	4.849	4.59										4.512111	13.53	0.135	1
1,2,4-TRIMETHYLBENZENE	3.54	4.593	4.893	5.036	5.304	5.529	5.516	5.4	5.752	5.459	5.301										5.120245	12.06	0.121	1
SEC-BUTYLBENZENE	4.853	7.091	6.737	7.366	7.634	7.478	7.683	7.175	7.31	7.759	7.027										7.101182	11.36	0.114	1
1,3-DICHLOROBENZENE	1.904	2.657	2.585	2.785	2.998	2.842	2.8	2.805	2.847	2.647	2.545										2.674036	10.76	0.108	1
P-ISOPROPYLTOLUENE		4.995	4.982	5.346	6.01	6.141	6.352	6.249	6.09	5.916	5.878										5.795738	8.71	0.087	1
DICYCLOPENTADIENE		5.617	5.92	6.635	6.705	6.846	7.116	6.792	7.151	7.388	6.938										6.710897	8.19	0.082	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	0.992	1.22	1.21	1.152	1.201	1.154	1.122	1.109	1.182	1.064	1.18										1.144261	6.02	0.06	1
1,2,3-TRIMETHYLBENZENE	1.514	2.088	2.021	2.169	2.213	2.127	2.186	2.249	2.511	2.218	2.46										2.15966	11.99	0.12	1
1,2-DICHLOROBENZENE		0.921	0.946	1.017	1.034	1.044	1.024	1.041	1.11	1.078	1.166										1.038081	6.91	0.069	1
N-BUTYLBENZENE		1.686	1.674	1.977	2.018	2.131	2.174	2.218	2.423	2.452	2.567										2.131984	14.25	0.143	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 601-602
Review Protocol : EPA
Released By : Amy Green
Released On : 10/12/2015 11:19:39 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-DIBROMO-3-CHLOROPROPANE					0.102	0.111	0.125	0.124	0.146	0.136	0.159										0.128901	15.27	0.153	1
1,2,4-TRICHLOROBENZENE			0.446	0.561	0.565	0.629	0.641	0.652	0.683	0.659	0.765										0.622386	14.44	0.144	1
HEXACHLORO-1,3-BUTADIENE		0.319	0.317	0.348	0.356	0.338	0.34	0.364	0.383	0.368	0.393										0.352617	7.2	0.072	1
NAPHTHALENE				1.629	1.599	1.642	1.749	1.801	1.948	1.77	2.064										1.775199	9.15	0.091	1
1,2,3-TRICHLOROBENZENE		0.485	0.507	0.532	0.6	0.589	0.602	0.61	0.689	0.664	0.734										0.601159	13.23	0.132	1
2-METHYLNAPHTHALENE		0.705	0.728	0.78	0.823	0.918	0.94	0.944	1.027	0.933	1.021										0.88188	13.11	0.131	1
1-METHYLNAPHTHALENE		0.761	0.703	0.833	0.902	0.938	0.907	0.905	0.901	0.845	0.94										0.863558	9.11	0.091	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.006	0.007	0.007	0.007	0.007	0.008	0.007	0.007	0.007	0.007077	8.69	0.087	1
BROMOETHANE												0.321	0.334	0.37	0.347	0.365	0.373	0.369	0.36	0.382	0.357787	5.58	0.056	1
2-PROPANOL												0.032	0.039	0.04	0.039	0.042	0.048	0.04	0.039	0.039	0.039593	10.47	0.105	1
METHYL ACETATE												0.369	0.402	0.379	0.384	0.396	0.406	0.358	0.361	0.383	0.382028	4.55	0.045	1
ACETONITRILE												0.064	0.069	0.067	0.068	0.069	0.079	0.067	0.068	0.068	0.068815	6.13	0.061	1
ALLYL CHLORIDE												0.233	0.245	0.255	0.247	0.253	0.254	0.249	0.237	0.253	0.247308	3.11	0.031	1
TERT-BUTYL ALCOHOL												0.086	0.097	0.091	0.087	0.091	0.099	0.08	0.085	0.085	0.088899	6.7	0.067	1
CHLOROPRENE												0.735	0.788	0.807	0.771	0.789	0.818	0.796	0.799	0.805	0.789699	3.12	0.031	1
ETHYL TERT-BUTYL ETHER												1.4	1.325	1.359	1.374	1.321	1.366	1.33	1.337	1.355	1.351952	1.92	0.019	1
PROPIONITRILE												0.084	0.088	0.088	0.086	0.085	0.096	0.085	0.084	0.087	0.086718	4.25	0.043	1
ETHYL ACETATE												0.499	0.507	0.498	0.484	0.501	0.529	0.493	0.494	0.499	0.500533	2.51	0.025	1
METHACRYLONITRILE												0.226	0.234	0.226	0.218	0.226	0.244	0.224	0.217	0.232	0.227446	3.66	0.037	1
CYCLOHEXANE												1.199	1.183	1.238	1.209	1.248	1.283	1.238	1.206	1.245	1.227759	2.51	0.025	1
TERT-BUTYL FORMATE												0.372	0.372	0.381	0.38	0.387	0.388	0.379	0.391	0.381	0.381257	1.74	0.017	1

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 601-602
Review Protocol : EPA
Released By : Amy Green
Released On : 10/12/2015 11:19:39 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.036	0.036	0.034	0.037	0.039	0.044	0.035	0.038	0.036	0.037306	7.95	0.079	1
T-AMYL ALCOHOL												0.058	0.064	0.06	0.06	0.064	0.07	0.056	0.056	0.056	0.060322	8.01	0.08	1
TERT-AMYL METHYL ETHER												1.632	1.669	1.606	1.587	1.614	1.546	1.596	1.578	1.64	1.607601	2.27	0.023	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.009	0.01	0.011	0.011	0.011	0.014	0.011	0.012	0.01	0.011075	11.54	0.115	1
METHYL CYCLOHEXANE												1.102	0.867	0.794	0.779	0.759	0.804	0.75	0.776	0.746	0.819583	13.68	0.137	1
2-NITROPROPANE												0.065	0.07	0.072	0.08	0.08	0.09	0.08	0.084	0.08	0.077769	9.58	0.096	1
METHYL METHACRYLATE												0.227	0.233	0.239	0.231	0.232	0.25	0.222	0.249	0.223	0.233798	4.36	0.044	1
1,4-DIOXANE												0.003	0.004	0.004	0.004	0.004	0.004	0.003	0.004	0.003	0.003604	10.02	0.1	1
N-OCTANE												0.273	0.293	0.313	0.311	0.311	0.333	0.32	0.327	0.312	0.310344	5.78	0.058	1
3,3-DIMETHYL-1-BUTANOL																					0	0	0	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.463	1.563	1.621	1.788	1.746	1.868	1.779	1.85	1.831	1.723178	8.21	0.082	1
CIS-1,4-DICHLORO-2-BUTENE												0.389	0.41	0.434	0.506	0.499	0.523	0.508	0.526	0.48	0.475082	10.74	0.107	1
CYCLOHEXANONE																					0	0	0	1
PENTACHLOROETHANE												0.77	0.703	0.733	0.834	0.749	0.832	0.738	0.768	0.722	0.760818	6.03	0.06	1
HEXACHLOROETHANE												0.945	0.921	0.944	1.073	1.089	1.129	1.076	1.086	1.033	1.032851	7.4	0.074	1
AP9-1,4-DICHLOROBENZENE-D4																								

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 624
Review Protocol : EPA
Released By : Amy Green
Released On : 10/12/2015 11:20:17 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE	0.118	0.163	0.144	0.132	0.112	0.12	0.117	0.122	0.124	0.129	0.129										0.128242	11.09	0.111	1
DICHLORODIFLUOROMETHANE		0.288	0.332	0.387	0.412	0.427	0.397	0.416	0.428	0.433	0.428										0.394819	12.15	0.121	1
CHLOROMETHANE			1.082	1.012	0.854	0.75	0.622	0.605	0.579	0.574	0.552										0.736825	27.35	0.997	0
VINYL CHLORIDE		0.486	0.502	0.589	0.564	0.578	0.57	0.585	0.594	0.581	0.604										0.565211	6.99	0.07	1
1,3-BUTADIENE	0.223	0.328	0.341	0.383	0.384	0.413	0.366	0.39	0.381	0.395	0.394										0.363547	14.45	0.145	1
BROMOMETHANE		0.137	0.14	0.141	0.117	0.126	0.113	0.111	0.115	0.122	0.117										0.123916	9.22	0.092	1
CHLOROETHANE				0.258	0.29	0.268	0.211	0.192													0.243818	16.8	0.991	0
TRICHLOROFLUOROMETHANE		0.469	0.535	0.591	0.585	0.587	0.551	0.521	0.522	0.47	0.357										0.518853	13.89	0.139	1
DICHLOROFLUORMETHANE		0.64	0.696	0.768	0.773	0.813	0.761	0.788	0.778	0.772	0.651										0.74399	8.04	0.08	1
ETHYL ETHER		0.294	0.312	0.345	0.348	0.372	0.351	0.367	0.38	0.377	0.386										0.353234	8.54	0.085	1
ACROLEIN		0.072	0.071	0.087	0.079	0.088	0.092	0.092	0.096	0.094	0.095										0.086561	10.88	0.109	1
1,1-DICHLOROETHENE		0.297	0.324	0.365	0.356	0.392	0.373	0.376	0.397	0.414	0.416										0.371076	10.25	0.102	1
1,1,2 -TRICHLOROTRIFLUOROETHANE		0.324	0.336	0.37	0.384	0.395	0.365	0.393	0.39	0.395	0.389										0.374091	6.81	0.068	1
ACETONE	0.242	0.289	0.263	0.288	0.264	0.277	0.257	0.256	0.272	0.254	0.233										0.26309	6.64	0.066	1
IODOMETHANE	0.234	0.256	0.235	0.271	0.3	0.369	0.416	0.46	0.466	0.486	0.473										0.360565	28.68	0.997	0
CARBON DISULFIDE	1.157	1.408	1.356	1.385	1.33	1.392	1.394	1.432	1.465	1.553	1.528										1.40009	7.55	0.075	1
METHYLENE CHLORIDE		0.347	0.379	0.43	0.414	0.436	0.396	0.414	0.44	0.447	0.442										0.41451	7.75	0.078	1
ACRYLONITRILE		0.137	0.138	0.159	0.162	0.174	0.164	0.17	0.176	0.176	0.181										0.163876	9.39	0.094	1
N-HEXANE		0.373	0.42	0.465	0.449	0.474	0.444	0.459	0.482	0.501	0.496										0.456235	8.34	0.083	1
TRANS-1,2-DICHLOROETHENE		0.362	0.387	0.425	0.411	0.438	0.424	0.445	0.453	0.449	0.464										0.425967	7.43	0.074	1

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Environmental Science Corporation
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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 624
Review Protocol : EPA
Released By : Amy Green
Released On : 10/12/2015 11:20:17 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER		1.125	1.068	1.245	1.178	1.248	1.2	1.264	1.318	1.292	1.371										1.230938	7.36	0.074	1
1,1-DICHLOROETHANE		0.601	0.711	0.751	0.724	0.787	0.758	0.81	0.829	0.839	0.865										0.767474	10.07	0.101	1
VINYL ACETATE	0.41	0.641	0.597	0.662	0.62	0.727	0.664	0.687	0.764	0.736	0.665										0.652154	14.55	0.145	1
DI-ISOPROPYL ETHER		1.226	1.235	1.347	1.3	1.368	1.311	1.417	1.42	1.461	1.499										1.358483	6.78	0.068	1
2,2-DICHLOROPROPANE		0.616	0.605	0.665	0.641	0.678	0.638	0.665	0.706	0.726	0.716										0.665618	6.23	0.062	1
CIS-1,2-DICHLOROETHENE		0.375	0.426	0.455	0.438	0.472	0.449	0.458	0.464	0.473	0.484										0.449269	6.94	0.069	1
2-BUTANONE (MEK)	0.209	0.293	0.266	0.316	0.292	0.317	0.308	0.304	0.343	0.333	0.327										0.300812	12.43	0.124	1
BROMOCHLOROMETHANE		0.16	0.182	0.23	0.23	0.234	0.214	0.215	0.221	0.224	0.202										0.211291	11.26	0.113	1
TETRAHYDROFURAN	0.196	0.192	0.148	0.163	0.153	0.162	0.155	0.155	0.165	0.164	0.159										0.164754	9.31	0.093	1
CHLOROFORM	0.436	0.655	0.645	0.728	0.676	0.709	0.673	0.728	0.712	0.73	0.743										0.67588	12.73	0.127	1
DIBROMOFLUOROMETHANE	0.501	0.487	0.502	0.528	0.479	0.494	0.492	0.506	0.507	0.497	0.504										0.499796	2.57	0.026	1
1,1,1-TRICHLOROETHANE		0.519	0.507	0.565	0.565	0.596	0.552	0.585	0.635	0.646	0.642										0.581113	8.47	0.085	1
CARBON TETRACHLORIDE		0.417	0.435	0.478	0.492	0.516	0.49	0.491	0.532	0.548	0.547										0.494668	8.89	0.089	1
1,1-DICHLOROPROPENE		0.474	0.534	0.603	0.56	0.604	0.576	0.606	0.628	0.639	0.641										0.586543	8.91	0.089	1
2,2,4-TRIMETHYLPENTANE	1.508	2.261	2.245	2.441	2.375	2.519	2.465	2.531	2.578	2.683	2.754										2.396259	13.93	0.139	1
HEPTANE		0.372	0.458	0.514	0.516	0.568	0.529	0.567	0.586	0.618	0.601										0.53281	13.9	0.139	1
BENZENE		1.703	1.627	1.89	1.813	1.841	1.745	1.806	1.857	1.927	1.984										1.819298	5.84	0.058	1
1,2-DICHLOROETHANE		0.49	0.464	0.541	0.501	0.529	0.523	0.551	0.559	0.584	0.578										0.531972	7.28	0.073	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE		0.222	0.228	0.237	0.236	0.25	0.234	0.248	0.24	0.226	0.248										0.236819	4.05	0.04	1
1,2-DICHLOROPROPANE		0.168	0.165	0.181	0.173	0.178	0.179	0.186	0.184	0.182	0.189										0.178454	4.25	0.042	1
DIBROMOMETHANE		0.095	0.106	0.113	0.118	0.126	0.123	0.134	0.131	0.125	0.133										0.120372	10.51	0.105	1

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 624
Review Protocol : EPA
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INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE		0.283	0.264	0.293	0.276	0.3	0.296	0.306	0.295	0.298	0.316										0.292548	5.1	0.051	1
A,A,A-TRIFLUOROTOLUENE	0.531	0.513	0.519	0.53	0.517	0.512	0.508	0.522	0.508	0.485	0.485										0.511911	3.02	0.03	1
-CHLOROETHYL VINYL ETHER		0.102	0.106	0.116	0.115	0.126	0.131	0.136	0.136	0.128	0.134										0.122969	10.02	0.1	1
CIS-1,3-DICHLOROPROPENE		0.326	0.343	0.392	0.367	0.384	0.392	0.409	0.412	0.395	0.429										0.384967	8.22	0.082	1
4-METHYL-2-PENTANONE (MIBK)		0.186	0.194	0.221	0.222	0.241	0.253	0.247	0.264	0.244	0.256										0.232824	11.28	0.113	1
TOLUENE-D8	1.235	1.264	1.21	1.239	1.148	1.214	1.153	1.276	1.179	1.155	1.145										1.20163	4.01	0.04	1
TOLUENE	0.991	1.147	1.047	1.104	1.006	1.138	1.024	1.142	1.07	1.088	1.092										1.077083	5.11	0.051	1
TRANS-1,3-DICHLOROPROPENE		0.282	0.276	0.309	0.31	0.339	0.347	0.364	0.369	0.346	0.379										0.332022	10.85	0.109	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE		1.064	1.14	1.178	1.204	1.213	1.186	1.198	1.232	1.206	1.143										1.176398	4.16	0.042	1
TETRACHLOROETHENE		0.883	1.069	1.054	1.117	1.047	1.077	1.014	1.034	1.01	1.026										1.032996	5.98	0.06	1
1,3-DICHLOROPROPANE	1.8	2.534	2.131	2.333	2.285	2.212	2.31	2.203	2.25	2.228	2.279										2.233142	7.9	0.079	1
2-HEXANONE				0.539	0.689	0.767	0.788	0.774	0.828	0.841	0.856										0.760402	13.63	0.136	1
CHLORODIBROMOMETHANE		1.09	1.076	1.161	1.17	1.189	1.251	1.206	1.246	1.217	1.252										1.185772	5.32	0.053	1
1,2-DIBROMOETHANE		0.882	1.042	1.103	1.153	1.17	1.211	1.149	1.257	1.158	1.163										1.128785	9.2	0.092	1
CHLOROBENZENE	2.254	3.473	3.406	3.662	4.013	3.979	3.942	3.76	3.99	3.802	3.65										3.630055	13.81	0.138	1
1,1,1,2-TETRACHLOROETHANE		1.034	0.964	1.046	1.21	1.158	1.201	1.143	1.219	1.141	1.145										1.125942	7.5	0.075	1
ETHYLBENZENE		1.897	2.001	2.124	2.288	2.15	2.183	2.093	2.286	2.162	2.245										2.1428	5.76	0.058	1
M&P-XYLENE		2.516	2.404	2.57	2.873	2.867	2.766	2.746	2.801	2.787	2.531										2.686143	6.17	0.062	1
O-XYLENE		2.199	2.26	2.382	2.649	2.561	2.629	2.524	2.678	2.694	2.558										2.513419	6.97	0.07	1
STYRENE		3.332	3.4	3.82	4.112	4.224	4.29	4.128	4.374	4.272	4.322										4.027356	9.48	0.095	1
BROMOFORM			0.608	0.686	0.681	0.72	0.751	0.754	0.82	0.752	0.766										0.726377	8.45	0.084	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 624
Review Protocol : EPA
Released By : Amy Green
Released On : 10/12/2015 11:20:17 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOPROPYLBENZENE	5.098	6.572	6.529	6.889	7.168	7.035	6.922	6.793	7.311	6.827	6.422										6.687701	8.85	0.088	1
4-BROMOFLUOROBENZENE	2.792	2.748	2.685	2.714	2.758	2.615	2.658	2.601	2.647	2.468	2.503										2.653572	3.86	0.039	1
BROMOBENZENE	1.964	2.677	2.824	3.088	3.081	3.039	3	2.909	3.069	3.01	3.094										2.886897	11.52	0.115	1
1,1,2,2-TETRACHLOROETHANE		1.26	1.448	1.568	1.639	1.686	1.679	1.673	1.695	1.593	1.669										1.590968	8.72	0.087	1
1,2,3-TRICHLOROPROPANE			0.404	0.416	0.466	0.498	0.494	0.46	0.501	0.473	0.454										0.46289	7.42	0.074	1
TRANS-1,4-DICHLORO-2-BUTENE				0.269	0.41	0.429	0.493	0.479	0.52	0.508	0.529										0.454591	18.89	0.999	0
N-PROPYLBENZENE	5.163	7.645	7.655	7.968	8.109	8.386	8.476	8.486	8.301	8.073	8.121										7.853077	11.94	0.119	1
4-ETHYLTOLUENE	4.814	6.057	6.041	6.489	6.799	6.746	6.767	6.698	6.944	6.786	6.535										6.425066	9.5	0.095	1
2-CHLOROTOLUENE	3.27	5.233	5.226	5.059	5.415	5.334	5.349	5.141	5.552	5.438	5.319										5.121402	12.29	0.123	1
4-CHLOROTOLUENE	3.234	4.597	4.705	4.794	4.895	4.861	4.802	4.819	5.162	4.917	4.722										4.682471	10.71	0.107	1
1,3,5-TRIMETHYLBENZENE		5.316	5.54	5.444	5.705	5.803	5.561	5.599	5.906	5.556	5.349										5.577756	3.36	0.034	1
TERT-BUTYLBENZENE	2.802	4.21	4.428	4.729	4.857	4.724	5.029	4.581	4.836	4.849	4.59										4.512111	13.53	0.135	1
1,2,4-TRIMETHYLBENZENE	3.54	4.593	4.893	5.036	5.304	5.529	5.516	5.4	5.752	5.459	5.301										5.120245	12.06	0.121	1
SEC-BUTYLBENZENE	4.853	7.091	6.737	7.366	7.634	7.478	7.683	7.175	7.31	7.759	7.027										7.101182	11.36	0.114	1
1,3-DICHLOROBENZENE	1.904	2.657	2.585	2.785	2.998	2.842	2.8	2.805	2.847	2.647	2.545										2.674036	10.76	0.108	1
P-ISOPROPYLTOLUENE		4.995	4.982	5.346	6.01	6.141	6.352	6.249	6.09	5.916	5.878										5.795738	8.71	0.087	1
DICYCLOPENTADIENE		5.617	5.92	6.635	6.705	6.846	7.116	6.792	7.151	7.388	6.938										6.710897	8.19	0.082	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	0.992	1.22	1.21	1.152	1.201	1.154	1.122	1.109	1.182	1.064	1.18										1.144261	6.02	0.06	1
1,2,3-TRIMETHYLBENZENE	1.514	2.088	2.021	2.169	2.213	2.127	2.186	2.249	2.511	2.218	2.46										2.15966	11.99	0.12	1
1,2-DICHLOROBENZENE		0.921	0.946	1.017	1.034	1.044	1.024	1.041	1.11	1.078	1.166										1.038081	6.91	0.069	1
N-BUTYLBENZENE		1.686	1.674	1.977	2.018	2.131	2.174	2.218	2.423	2.452	2.567										2.131984	14.25	0.143	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 624
Review Protocol : EPA
Released By : Amy Green
Released On : 10/12/2015 11:20:17 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-DIBROMO-3-CHLOROPROPANE					0.102	0.111	0.125	0.124	0.146	0.136	0.159										0.128901	15.27	0.153	1
1,2,4-TRICHLOROBENZENE			0.446	0.561	0.565	0.629	0.641	0.652	0.683	0.659	0.765										0.622386	14.44	0.144	1
HEXACHLORO-1,3-BUTADIENE		0.319	0.317	0.348	0.356	0.338	0.34	0.364	0.383	0.368	0.393										0.352617	7.2	0.072	1
NAPHTHALENE				1.629	1.599	1.642	1.749	1.801	1.948	1.77	2.064										1.775199	9.15	0.091	1
1,2,3-TRICHLOROBENZENE		0.485	0.507	0.532	0.6	0.589	0.602	0.61	0.689	0.664	0.734										0.601159	13.23	0.132	1
1-METHYLNAPHTHALENE		0.705	0.728	0.78	0.823	0.918	0.94	0.944	1.027	0.933	1.021										0.88188	13.11	0.131	1
2-METHYLNAPHTHALENE		0.761	0.703	0.833	0.902	0.938	0.907	0.905	0.901	0.845	0.94										0.863558	9.11	0.091	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.006	0.007	0.007	0.007	0.007	0.008	0.007	0.007	0.007	0.007077	8.69	0.087	1
BROMOETHANE												0.321	0.334	0.37	0.347	0.365	0.373	0.369	0.36	0.382	0.357787	5.58	0.056	1
2-PROPANOL												0.032	0.039	0.04	0.039	0.042	0.048	0.04	0.039	0.039	0.039593	10.47	0.105	1
METHYL ACETATE												0.369	0.402	0.379	0.384	0.396	0.406	0.358	0.361	0.383	0.382028	4.55	0.045	1
ACETONITRILE												0.064	0.069	0.067	0.068	0.069	0.079	0.067	0.068	0.068	0.068815	6.13	0.061	1
ALLYL CHLORIDE												0.233	0.245	0.255	0.247	0.253	0.254	0.249	0.237	0.253	0.247308	3.11	0.031	1
TERT-BUTYL ALCOHOL												0.086	0.097	0.091	0.087	0.091	0.099	0.08	0.085	0.085	0.088899	6.7	0.067	1
CHLOROPRENE												0.735	0.788	0.807	0.771	0.789	0.818	0.796	0.799	0.805	0.789699	3.12	0.031	1
ETHYL TERT-BUTYL ETHER												1.4	1.325	1.359	1.374	1.321	1.366	1.33	1.337	1.355	1.351952	1.92	0.019	1
PROPIONITRILE												0.084	0.088	0.088	0.086	0.085	0.096	0.085	0.084	0.087	0.086718	4.25	0.043	1
ETHYL ACETATE												0.499	0.507	0.498	0.484	0.501	0.529	0.493	0.494	0.499	0.500533	2.51	0.025	1
METHACRYLONITRILE												0.226	0.234	0.226	0.218	0.226	0.244	0.224	0.217	0.232	0.227446	3.66	0.037	1
CYCLOHEXANE												1.199	1.183	1.238	1.209	1.248	1.283	1.238	1.206	1.245	1.227759	2.51	0.025	1
TERT-BUTYL FORMATE												0.372	0.372	0.381	0.38	0.387	0.388	0.379	0.391	0.381	0.381257	1.74	0.017	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 624
Review Protocol : EPA
Released By : Amy Green
Released On : 10/12/2015 11:20:17 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.036	0.036	0.034	0.037	0.039	0.044	0.035	0.038	0.036	0.037306	7.95	0.079	1
T-AMYL ALCOHOL												0.058	0.064	0.06	0.06	0.064	0.07	0.056	0.056	0.056	0.060322	8.01	0.08	1
TERT-AMYL METHYL ETHER												1.632	1.669	1.606	1.587	1.614	1.546	1.596	1.578	1.64	1.607601	2.27	0.023	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.009	0.01	0.011	0.011	0.011	0.014	0.011	0.012	0.01	0.011075	11.54	0.115	1
METHYL CYCLOHEXANE												1.102	0.867	0.794	0.779	0.759	0.804	0.75	0.776	0.746	0.819583	13.68	0.137	1
2-NITROPROPANE												0.065	0.07	0.072	0.08	0.08	0.09	0.08	0.084	0.08	0.077769	9.58	0.096	1
METHYL METHACRYLATE												0.227	0.233	0.239	0.231	0.232	0.25	0.222	0.249	0.223	0.233798	4.36	0.044	1
1,4-DIOXANE												0.003	0.004	0.004	0.004	0.004	0.004	0.003	0.004	0.003	0.003604	10.02	0.1	1
N-OCTANE												0.273	0.293	0.313	0.311	0.311	0.333	0.32	0.327	0.312	0.310344	5.78	0.058	1
3,3-DIMETHYL-1-BUTANOL																					0	0	0	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.463	1.563	1.621	1.788	1.746	1.868	1.779	1.85	1.831	1.723178	8.21	0.082	1
CIS-1,4-DICHLORO-2-BUTENE												0.389	0.41	0.434	0.506	0.499	0.523	0.508	0.526	0.48	0.475082	10.74	0.107	1
CYCLOHEXANONE																					0	0	0	1
PENTACHLOROETHANE												0.77	0.703	0.733	0.834	0.749	0.832	0.738	0.768	0.722	0.760818	6.03	0.06	1
HEXACHLOROETHANE												0.945	0.921	0.944	1.073	1.089	1.129	1.076	1.086	1.033	1.032851	7.4	0.074	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 8260SC
Review Protocol : SC
Released By : Amy Green
Released On : 10/12/2015 11:20:50 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE	0.118	0.163	0.144	0.132	0.112	0.12	0.117	0.122	0.124	0.129	0.129										0.128242	11.09	0.111	1
DICHLORODIFLUOROMETHANE		0.288	0.332	0.387	0.412	0.427	0.397	0.416	0.428	0.433	0.428										0.394819	12.15	0.121	1
CHLOROMETHANE			1.082	1.012	0.854	0.75	0.622	0.605	0.579	0.574	0.552										0.736825	27.35	0.997	0
VINYL CHLORIDE		0.486	0.502	0.589	0.564	0.578	0.57	0.585	0.594	0.581	0.604										0.565211	6.99	0.07	1
1,3-BUTADIENE	0.223	0.328	0.341	0.383	0.384	0.413	0.366	0.39	0.381	0.395	0.394										0.363547	14.45	0.145	1
BROMOMETHANE		0.137	0.14	0.141	0.117	0.126	0.113	0.111	0.115	0.122	0.117										0.123916	9.22	0.092	1
CHLOROETHANE				0.258	0.29	0.268	0.211	0.192													0.243818	16.8	0.991	0
TRICHLOROFLUOROMETHANE		0.469	0.535	0.591	0.585	0.587	0.551	0.521	0.522	0.47	0.357										0.518853	13.89	0.139	1
DICHLOROFLUORMETHANE		0.64	0.696	0.768	0.773	0.813	0.761	0.788	0.778	0.772	0.651										0.74399	8.04	0.08	1
ETHYL ETHER		0.294	0.312	0.345	0.348	0.372	0.351	0.367	0.38	0.377	0.386										0.353234	8.54	0.085	1
ACROLEIN		0.072	0.071	0.087	0.079	0.088	0.092	0.092	0.096	0.094	0.095										0.086561	10.88	0.109	1
1,1-DICHLOROETHENE		0.297	0.324	0.365	0.356	0.392	0.373	0.376	0.397	0.414	0.416										0.371076	10.25	0.102	1
1,1,2 -TRICHLOROTRIFLUOROETHANE		0.324	0.336	0.37	0.384	0.395	0.365	0.393	0.39	0.395	0.389										0.374091	6.81	0.068	1
ACETONE	0.242	0.289	0.263	0.288	0.264	0.277	0.257	0.256	0.272	0.254	0.233										0.26309	6.64	0.066	1
IODOMETHANE	0.234	0.256	0.235	0.271	0.3	0.369	0.416	0.46	0.466	0.486	0.473										0.360565	28.68	0.997	0
CARBON DISULFIDE	1.157	1.408	1.356	1.385	1.33	1.392	1.394	1.432	1.465	1.553	1.528										1.40009	7.55	0.075	1
METHYLENE CHLORIDE		0.347	0.379	0.43	0.414	0.436	0.396	0.414	0.44	0.447	0.442										0.41451	7.75	0.078	1
ACRYLONITRILE		0.137	0.138	0.159	0.162	0.174	0.164	0.17	0.176	0.176	0.181										0.163876	9.39	0.094	1
N-HEXANE		0.373	0.42	0.465	0.449	0.474	0.444	0.459	0.482	0.501	0.496										0.456235	8.34	0.083	1
TRANS-1,2-DICHLOROETHENE		0.362	0.387	0.425	0.411	0.438	0.424	0.445	0.453	0.449	0.464										0.425967	7.43	0.074	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 8260SC
Review Protocol : SC
Released By : Amy Green
Released On : 10/12/2015 11:20:50 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER		1.125	1.068	1.245	1.178	1.248	1.2	1.264	1.318	1.292	1.371										1.230938	7.36	0.074	1
1,1-DICHLOROETHANE		0.601	0.711	0.751	0.724	0.787	0.758	0.81	0.829	0.839	0.865										0.767474	10.07	0.101	1
VINYL ACETATE	0.41	0.641	0.597	0.662	0.62	0.727	0.664	0.687	0.764	0.736	0.665										0.652154	14.55	0.145	1
DI-ISOPROPYL ETHER		1.226	1.235	1.347	1.3	1.368	1.311	1.417	1.42	1.461	1.499										1.358483	6.78	0.068	1
2,2-DICHLOROPROPANE		0.616	0.605	0.665	0.641	0.678	0.638	0.665	0.706	0.726	0.716										0.665618	6.23	0.062	1
CIS-1,2-DICHLOROETHENE		0.375	0.426	0.455	0.438	0.472	0.449	0.458	0.464	0.473	0.484										0.449269	6.94	0.069	1
2-BUTANONE (MEK)	0.209	0.293	0.266	0.316	0.292	0.317	0.308	0.304	0.343	0.333	0.327										0.300812	12.43	0.124	1
BROMOCHLOROMETHANE		0.16	0.182	0.23	0.23	0.234	0.214	0.215	0.221	0.224	0.202										0.211291	11.26	0.113	1
TETRAHYDROFURAN	0.196	0.192	0.148	0.163	0.153	0.162	0.155	0.155	0.165	0.164	0.159										0.164754	9.31	0.093	1
CHLOROFORM	0.436	0.655	0.645	0.728	0.676	0.709	0.673	0.728	0.712	0.73	0.743										0.67588	12.73	0.127	1
DIBROMOFLUOROMETHANE	0.501	0.487	0.502	0.528	0.479	0.494	0.492	0.506	0.507	0.497	0.504										0.499796	2.57	0.026	1
1,1,1-TRICHLOROETHANE		0.519	0.507	0.565	0.565	0.596	0.552	0.585	0.635	0.646	0.642										0.581113	8.47	0.085	1
CARBON TETRACHLORIDE		0.417	0.435	0.478	0.492	0.516	0.49	0.491	0.532	0.548	0.547										0.494668	8.89	0.089	1
1,1-DICHLOROPROPENE		0.474	0.534	0.603	0.56	0.604	0.576	0.606	0.628	0.639	0.641										0.586543	8.91	0.089	1
2,2,4-TRIMETHYLPENTANE	1.508	2.261	2.245	2.441	2.375	2.519	2.465	2.531	2.578	2.683	2.754										2.396259	13.93	0.139	1
HEPTANE		0.372	0.458	0.514	0.516	0.568	0.529	0.567	0.586	0.618	0.601										0.53281	13.9	0.139	1
BENZENE		1.703	1.627	1.89	1.813	1.841	1.745	1.806	1.857	1.927	1.984										1.819298	5.84	0.058	1
1,2-DICHLOROETHANE		0.49	0.464	0.541	0.501	0.529	0.523	0.551	0.559	0.584	0.578										0.531972	7.28	0.073	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE		0.222	0.228	0.237	0.236	0.25	0.234	0.248	0.24	0.226	0.248										0.236819	4.05	0.04	1
1,2-DICHLOROPROPANE		0.168	0.165	0.181	0.173	0.178	0.179	0.186	0.184	0.182	0.189										0.178454	4.25	0.042	1
DIBROMOMETHANE		0.095	0.106	0.113	0.118	0.126	0.123	0.134	0.131	0.125	0.133										0.120372	10.51	0.105	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 8260SC
Review Protocol : SC
Released By : Amy Green
Released On : 10/12/2015 11:20:50 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE		0.283	0.264	0.293	0.276	0.3	0.296	0.306	0.295	0.298	0.316										0.292548	5.1	0.051	1
A,A,A-TRIFLUOROTOLUENE	0.531	0.513	0.519	0.53	0.517	0.512	0.508	0.522	0.508	0.485	0.485										0.511911	3.02	0.03	1
-CHLOROETHYL VINYL ETHER		0.102	0.106	0.116	0.115	0.126	0.131	0.136	0.136	0.128	0.134										0.122969	10.02	0.1	1
CIS-1,3-DICHLOROPROPENE		0.326	0.343	0.392	0.367	0.384	0.392	0.409	0.412	0.395	0.429										0.384967	8.22	0.082	1
4-METHYL-2-PENTANONE (MIBK)		0.186	0.194	0.221	0.222	0.241	0.253	0.247	0.264	0.244	0.256										0.232824	11.28	0.113	1
TOLUENE-D8	1.235	1.264	1.21	1.239	1.148	1.214	1.153	1.276	1.179	1.155	1.145										1.20163	4.01	0.04	1
TOLUENE	0.991	1.147	1.047	1.104	1.006	1.138	1.024	1.142	1.07	1.088	1.092										1.077083	5.11	0.051	1
TRANS-1,3-DICHLOROPROPENE		0.282	0.276	0.309	0.31	0.339	0.347	0.364	0.369	0.346	0.379										0.332022	10.85	0.109	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE		1.064	1.14	1.178	1.204	1.213	1.186	1.198	1.232	1.206	1.143										1.176398	4.16	0.042	1
TETRACHLOROETHENE		0.883	1.069	1.054	1.117	1.047	1.077	1.014	1.034	1.01	1.026										1.032996	5.98	0.06	1
1,3-DICHLOROPROPANE	1.8	2.534	2.131	2.333	2.285	2.212	2.31	2.203	2.25	2.228	2.279										2.233142	7.9	0.079	1
2-HEXANONE				0.539	0.689	0.767	0.788	0.774	0.828	0.841	0.856										0.760402	13.63	0.136	1
CHLORODIBROMOMETHANE		1.09	1.076	1.161	1.17	1.189	1.251	1.206	1.246	1.217	1.252										1.185772	5.32	0.053	1
1,2-DIBROMOETHANE		0.882	1.042	1.103	1.153	1.17	1.211	1.149	1.257	1.158	1.163										1.128785	9.2	0.092	1
CHLOROBENZENE	2.254	3.473	3.406	3.662	4.013	3.979	3.942	3.76	3.99	3.802	3.65										3.630055	13.81	0.138	1
1,1,1,2-TETRACHLOROETHANE		1.034	0.964	1.046	1.21	1.158	1.201	1.143	1.219	1.141	1.145										1.125942	7.5	0.075	1
ETHYLBENZENE		1.897	2.001	2.124	2.288	2.15	2.183	2.093	2.286	2.162	2.245										2.1428	5.76	0.058	1
M&P-XYLENE		2.516	2.404	2.57	2.873	2.867	2.766	2.746	2.801	2.787	2.531										2.686143	6.17	0.062	1
O-XYLENE		2.199	2.26	2.382	2.649	2.561	2.629	2.524	2.678	2.694	2.558										2.513419	6.97	0.07	1
STYRENE		3.332	3.4	3.82	4.112	4.224	4.29	4.128	4.374	4.272	4.322										4.027356	9.48	0.095	1
BROMOFORM			0.608	0.686	0.681	0.72	0.751	0.754	0.82	0.752	0.766										0.726377	8.45	0.084	1

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 8260SC
Review Protocol : SC
Released By : Amy Green
Released On : 10/12/2015 11:20:50 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOPROPYLBENZENE	5.098	6.572	6.529	6.889	7.168	7.035	6.922	6.793	7.311	6.827	6.422										6.687701	8.85	0.088	1
4-BROMOFLUOROBENZENE	2.792	2.748	2.685	2.714	2.758	2.615	2.658	2.601	2.647	2.468	2.503										2.653572	3.86	0.039	1
BROMOBENZENE	1.964	2.677	2.824	3.088	3.081	3.039	3	2.909	3.069	3.01	3.094										2.886897	11.52	0.115	1
1,1,2,2-TETRACHLOROETHANE		1.26	1.448	1.568	1.639	1.686	1.679	1.673	1.695	1.593	1.669										1.590968	8.72	0.087	1
1,2,3-TRICHLOROPROPANE			0.404	0.416	0.466	0.498	0.494	0.46	0.501	0.473	0.454										0.46289	7.42	0.074	1
TRANS-1,4-DICHLORO-2-BUTENE				0.269	0.41	0.429	0.493	0.479	0.52	0.508	0.529										0.454591	18.89	0.999	0
N-PROPYLBENZENE	5.163	7.645	7.655	7.968	8.109	8.386	8.476	8.486	8.301	8.073	8.121										7.853077	11.94	0.119	1
4-ETHYLTOLUENE	4.814	6.057	6.041	6.489	6.799	6.746	6.767	6.698	6.944	6.786	6.535										6.425066	9.5	0.095	1
2-CHLOROTOLUENE	3.27	5.233	5.226	5.059	5.415	5.334	5.349	5.141	5.552	5.438	5.319										5.121402	12.29	0.123	1
4-CHLOROTOLUENE	3.234	4.597	4.705	4.794	4.895	4.861	4.802	4.819	5.162	4.917	4.722										4.682471	10.71	0.107	1
1,3,5-TRIMETHYLBENZENE		5.316	5.54	5.444	5.705	5.803	5.561	5.599	5.906	5.556	5.349										5.577756	3.36	0.034	1
TERT-BUTYLBENZENE	2.802	4.21	4.428	4.729	4.857	4.724	5.029	4.581	4.836	4.849	4.59										4.512111	13.53	0.135	1
1,2,4-TRIMETHYLBENZENE	3.54	4.593	4.893	5.036	5.304	5.529	5.516	5.4	5.752	5.459	5.301										5.120245	12.06	0.121	1
SEC-BUTYLBENZENE	4.853	7.091	6.737	7.366	7.634	7.478	7.683	7.175	7.31	7.759	7.027										7.101182	11.36	0.114	1
1,3-DICHLOROBENZENE	1.904	2.657	2.585	2.785	2.998	2.842	2.8	2.805	2.847	2.647	2.545										2.674036	10.76	0.108	1
P-ISOPROPYLTOLUENE		4.995	4.982	5.346	6.01	6.141	6.352	6.249	6.09	5.916	5.878										5.795738	8.71	0.087	1
DICYCLOPENTADIENE		5.617	5.92	6.635	6.705	6.846	7.116	6.792	7.151	7.388	6.938										6.710897	8.19	0.082	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	0.992	1.22	1.21	1.152	1.201	1.154	1.122	1.109	1.182	1.064	1.18										1.144261	6.02	0.06	1
1,2,3-TRIMETHYLBENZENE	1.514	2.088	2.021	2.169	2.213	2.127	2.186	2.249	2.511	2.218	2.46										2.15966	11.99	0.12	1
1,2-DICHLOROBENZENE		0.921	0.946	1.017	1.034	1.044	1.024	1.041	1.11	1.078	1.166										1.038081	6.91	0.069	1
N-BUTYLBENZENE		1.686	1.674	1.977	2.018	2.131	2.174	2.218	2.423	2.452	2.567										2.131984	14.25	0.143	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 8260SC
Review Protocol : SC
Released By : Amy Green
Released On : 10/12/2015 11:20:50 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-DIBROMO-3-CHLOROPROPANE					0.102	0.111	0.125	0.124	0.146	0.136	0.159										0.128901	15.27	0.153	1
1,2,4-TRICHLOROBENZENE			0.446	0.561	0.565	0.629	0.641	0.652	0.683	0.659	0.765										0.622386	14.44	0.144	1
HEXACHLORO-1,3-BUTADIENE		0.319	0.317	0.348	0.356	0.338	0.34	0.364	0.383	0.368	0.393										0.352617	7.2	0.072	1
NAPHTHALENE				1.629	1.599	1.642	1.749	1.801	1.948	1.77	2.064										1.775199	9.15	0.091	1
1,2,3-TRICHLOROBENZENE		0.485	0.507	0.532	0.6	0.589	0.602	0.61	0.689	0.664	0.734										0.601159	13.23	0.132	1
1-METHYLNAPHTHALENE		0.705	0.728	0.78	0.823	0.918	0.94	0.944	1.027	0.933	1.021										0.88188	13.11	0.131	1
2-METHYLNAPHTHALENE		0.761	0.703	0.833	0.902	0.938	0.907	0.905	0.901	0.845	0.94										0.863558	9.11	0.091	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.006	0.007	0.007	0.007	0.007	0.008	0.007	0.007	0.007	0.007077	8.69	0.087	1
BROMOETHANE												0.321	0.334	0.37	0.347	0.365	0.373	0.369	0.36	0.382	0.357787	5.58	0.056	1
2-PROPANOL												0.032	0.039	0.04	0.039	0.042	0.048	0.04	0.039	0.039	0.039593	10.47	0.105	1
METHYL ACETATE												0.369	0.402	0.379	0.384	0.396	0.406	0.358	0.361	0.383	0.382028	4.55	0.045	1
ACETONITRILE												0.064	0.069	0.067	0.068	0.069	0.079	0.067	0.068	0.068	0.068815	6.13	0.061	1
ALLYL CHLORIDE												0.233	0.245	0.255	0.247	0.253	0.254	0.249	0.237	0.253	0.247308	3.11	0.031	1
TERT-BUTYL ALCOHOL												0.086	0.097	0.091	0.087	0.091	0.099	0.08	0.085	0.085	0.088899	6.7	0.067	1
CHLOROPRENE												0.735	0.788	0.807	0.771	0.789	0.818	0.796	0.799	0.805	0.789699	3.12	0.031	1
ETHYL TERT-BUTYL ETHER												1.4	1.325	1.359	1.374	1.321	1.366	1.33	1.337	1.355	1.351952	1.92	0.019	1
PROPIONITRILE												0.084	0.088	0.088	0.086	0.085	0.096	0.085	0.084	0.087	0.086718	4.25	0.043	1
ETHYL ACETATE												0.499	0.507	0.498	0.484	0.501	0.529	0.493	0.494	0.499	0.500533	2.51	0.025	1
METHACRYLONITRILE												0.226	0.234	0.226	0.218	0.226	0.244	0.224	0.217	0.232	0.227446	3.66	0.037	1
CYCLOHEXANE												1.199	1.183	1.238	1.209	1.248	1.283	1.238	1.206	1.245	1.227759	2.51	0.025	1
TERT-BUTYL FORMATE												0.372	0.372	0.381	0.38	0.387	0.388	0.379	0.391	0.381	0.381257	1.74	0.017	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 8260SC	Released By	: Amy Green
Method	: V808J11O	Review Protocol	: SC	Released On	: 10/12/2015 11:20:50 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.036	0.036	0.034	0.037	0.039	0.044	0.035	0.038	0.036	0.037306	7.95	0.079	1
T-AMYL ALCOHOL												0.058	0.064	0.06	0.06	0.064	0.07	0.056	0.056	0.056	0.060322	8.01	0.08	1
TERT-AMYL METHYL ETHER												1.632	1.669	1.606	1.587	1.614	1.546	1.596	1.578	1.64	1.607601	2.27	0.023	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.009	0.01	0.011	0.011	0.011	0.014	0.011	0.012	0.01	0.011075	11.54	0.115	1
METHYL CYCLOHEXANE												1.102	0.867	0.794	0.779	0.759	0.804	0.75	0.776	0.746	0.819583	13.68	0.137	1
2-NITROPROPANE												0.065	0.07	0.072	0.08	0.08	0.09	0.08	0.084	0.08	0.077769	9.58	0.096	1
METHYL METHACRYLATE												0.227	0.233	0.239	0.231	0.232	0.25	0.222	0.249	0.223	0.233798	4.36	0.044	1
1,4-DIOXANE												0.003	0.004	0.004	0.004	0.004	0.004	0.003	0.004	0.003	0.003604	10.02	0.1	1
N-OCTANE												0.273	0.293	0.313	0.311	0.311	0.333	0.32	0.327	0.312	0.310344	5.78	0.058	1
3,3-DIMETHYL-1-BUTANOL																					0	0	0	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.463	1.563	1.621	1.788	1.746	1.868	1.779	1.85	1.831	1.723178	8.21	0.082	1
CIS-1,4-DICHLORO-2-BUTENE												0.389	0.41	0.434	0.506	0.499	0.523	0.508	0.526	0.48	0.475082	10.74	0.107	1
CYCLOHEXANONE																					0	0	0	1
PENTACHLOROETHANE												0.77	0.703	0.733	0.834	0.749	0.832	0.738	0.768	0.722	0.760818	6.03	0.06	1
HEXACHLOROETHANE												0.945	0.921	0.944	1.073	1.089	1.129	1.076	1.086	1.033	1.032851	7.4	0.074	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 6200
Review Protocol : SM 20th
Released By : Amy Green
Released On : 10/12/2015 11:21:26 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE	0.118	0.163	0.144	0.132	0.112	0.12	0.117	0.122	0.124	0.129	0.129										0.128242	11.09	0.111	1
DICHLORODIFLUOROMETHANE		0.288	0.332	0.387	0.412	0.427	0.397	0.416	0.428	0.433	0.428										0.394819	12.15	0.121	1
CHLOROMETHANE			1.082	1.012	0.854	0.75	0.622	0.605	0.579	0.574	0.552										0.736825	27.35	0.997	0
VINYL CHLORIDE		0.486	0.502	0.589	0.564	0.578	0.57	0.585	0.594	0.581	0.604										0.565211	6.99	0.07	1
1,3-BUTADIENE	0.223	0.328	0.341	0.383	0.384	0.413	0.366	0.39	0.381	0.395	0.394										0.363547	14.45	0.145	1
BROMOMETHANE		0.137	0.14	0.141	0.117	0.126	0.113	0.111	0.115	0.122	0.117										0.123916	9.22	0.092	1
CHLOROETHANE				0.258	0.29	0.268	0.211	0.192													0.243818	16.8	0.991	0
TRICHLOROFLUOROMETHANE		0.469	0.535	0.591	0.585	0.587	0.551	0.521	0.522	0.47	0.357										0.518853	13.89	0.139	1
DICHLOROFLUORMETHANE		0.64	0.696	0.768	0.773	0.813	0.761	0.788	0.778	0.772	0.651										0.74399	8.04	0.08	1
ETHYL ETHER		0.294	0.312	0.345	0.348	0.372	0.351	0.367	0.38	0.377	0.386										0.353234	8.54	0.085	1
ACROLEIN		0.072	0.071	0.087	0.079	0.088	0.092	0.092	0.096	0.094	0.095										0.086561	10.88	0.109	1
1,1-DICHLOROETHENE		0.297	0.324	0.365	0.356	0.392	0.373	0.376	0.397	0.414	0.416										0.371076	10.25	0.102	1
1,1,2 -TRICHLOROTRIFLUOROETHANE		0.324	0.336	0.37	0.384	0.395	0.365	0.393	0.39	0.395	0.389										0.374091	6.81	0.068	1
ACETONE	0.242	0.289	0.263	0.288	0.264	0.277	0.257	0.256	0.272	0.254	0.233										0.26309	6.64	0.066	1
IODOMETHANE	0.234	0.256	0.235	0.271	0.3	0.369	0.416	0.46	0.466	0.486	0.473										0.360565	28.68	0.997	0
CARBON DISULFIDE	1.157	1.408	1.356	1.385	1.33	1.392	1.394	1.432	1.465	1.553	1.528										1.40009	7.55	0.075	1
METHYLENE CHLORIDE		0.347	0.379	0.43	0.414	0.436	0.396	0.414	0.44	0.447	0.442										0.41451	7.75	0.078	1
ACRYLONITRILE		0.137	0.138	0.159	0.162	0.174	0.164	0.17	0.176	0.176	0.181										0.163876	9.39	0.094	1
N-HEXANE		0.373	0.42	0.465	0.449	0.474	0.444	0.459	0.482	0.501	0.496										0.456235	8.34	0.083	1
TRANS-1,2-DICHLOROETHENE		0.362	0.387	0.425	0.411	0.438	0.424	0.445	0.453	0.449	0.464										0.425967	7.43	0.074	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 6200
Review Protocol : SM 20th
Released By : Amy Green
Released On : 10/12/2015 11:21:26 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER		1.125	1.068	1.245	1.178	1.248	1.2	1.264	1.318	1.292	1.371										1.230938	7.36	0.074	1
1,1-DICHLOROETHANE		0.601	0.711	0.751	0.724	0.787	0.758	0.81	0.829	0.839	0.865										0.767474	10.07	0.101	1
VINYL ACETATE	0.41	0.641	0.597	0.662	0.62	0.727	0.664	0.687	0.764	0.736	0.665										0.652154	14.55	0.145	1
DI-ISOPROPYL ETHER		1.226	1.235	1.347	1.3	1.368	1.311	1.417	1.42	1.461	1.499										1.358483	6.78	0.068	1
2,2-DICHLOROPROPANE		0.616	0.605	0.665	0.641	0.678	0.638	0.665	0.706	0.726	0.716										0.665618	6.23	0.062	1
CIS-1,2-DICHLOROETHENE		0.375	0.426	0.455	0.438	0.472	0.449	0.458	0.464	0.473	0.484										0.449269	6.94	0.069	1
2-BUTANONE (MEK)	0.209	0.293	0.266	0.316	0.292	0.317	0.308	0.304	0.343	0.333	0.327										0.300812	12.43	0.124	1
BROMOCHLOROMETHANE		0.16	0.182	0.23	0.23	0.234	0.214	0.215	0.221	0.224	0.202										0.211291	11.26	0.113	1
TETRAHYDROFURAN	0.196	0.192	0.148	0.163	0.153	0.162	0.155	0.155	0.165	0.164	0.159										0.164754	9.31	0.093	1
CHLOROFORM	0.436	0.655	0.645	0.728	0.676	0.709	0.673	0.728	0.712	0.73	0.743										0.67588	12.73	0.127	1
DIBROMOFLUOROMETHANE	0.501	0.487	0.502	0.528	0.479	0.494	0.492	0.506	0.507	0.497	0.504										0.499796	2.57	0.026	1
1,1,1-TRICHLOROETHANE		0.519	0.507	0.565	0.565	0.596	0.552	0.585	0.635	0.646	0.642										0.581113	8.47	0.085	1
CARBON TETRACHLORIDE		0.417	0.435	0.478	0.492	0.516	0.49	0.491	0.532	0.548	0.547										0.494668	8.89	0.089	1
1,1-DICHLOROPROPENE		0.474	0.534	0.603	0.56	0.604	0.576	0.606	0.628	0.639	0.641										0.586543	8.91	0.089	1
2,2,4-TRIMETHYLPENTANE	1.508	2.261	2.245	2.441	2.375	2.519	2.465	2.531	2.578	2.683	2.754										2.396259	13.93	0.139	1
HEPTANE		0.372	0.458	0.514	0.516	0.568	0.529	0.567	0.586	0.618	0.601										0.53281	13.9	0.139	1
BENZENE		1.703	1.627	1.89	1.813	1.841	1.745	1.806	1.857	1.927	1.984										1.819298	5.84	0.058	1
1,2-DICHLOROETHANE		0.49	0.464	0.541	0.501	0.529	0.523	0.551	0.559	0.584	0.578										0.531972	7.28	0.073	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE		0.222	0.228	0.237	0.236	0.25	0.234	0.248	0.24	0.226	0.248										0.236819	4.05	0.04	1
1,2-DICHLOROPROPANE		0.168	0.165	0.181	0.173	0.178	0.179	0.186	0.184	0.182	0.189										0.178454	4.25	0.042	1
DIBROMOMETHANE		0.095	0.106	0.113	0.118	0.126	0.123	0.134	0.131	0.125	0.133										0.120372	10.51	0.105	1

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 6200
Review Protocol : SM 20th
Released By : Amy Green
Released On : 10/12/2015 11:21:26 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

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BROMODICHLOROMETHANE		0.283	0.264	0.293	0.276	0.3	0.296	0.306	0.295	0.298	0.316										0.292548	5.1	0.051	1
A,A,A-TRIFLUOROTOLUENE	0.531	0.513	0.519	0.53	0.517	0.512	0.508	0.522	0.508	0.485	0.485										0.511911	3.02	0.03	1
-CHLOROETHYL VINYL ETHER		0.102	0.106	0.116	0.115	0.126	0.131	0.136	0.136	0.128	0.134										0.122969	10.02	0.1	1
CIS-1,3-DICHLOROPROPENE		0.326	0.343	0.392	0.367	0.384	0.392	0.409	0.412	0.395	0.429										0.384967	8.22	0.082	1
4-METHYL-2-PENTANONE (MIBK)		0.186	0.194	0.221	0.222	0.241	0.253	0.247	0.264	0.244	0.256										0.232824	11.28	0.113	1
TOLUENE-D8	1.235	1.264	1.21	1.239	1.148	1.214	1.153	1.276	1.179	1.155	1.145										1.20163	4.01	0.04	1
TOLUENE	0.991	1.147	1.047	1.104	1.006	1.138	1.024	1.142	1.07	1.088	1.092										1.077083	5.11	0.051	1
TRANS-1,3-DICHLOROPROPENE		0.282	0.276	0.309	0.31	0.339	0.347	0.364	0.369	0.346	0.379										0.332022	10.85	0.109	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE		1.064	1.14	1.178	1.204	1.213	1.186	1.198	1.232	1.206	1.143										1.176398	4.16	0.042	1
TETRACHLOROETHENE		0.883	1.069	1.054	1.117	1.047	1.077	1.014	1.034	1.01	1.026										1.032996	5.98	0.06	1
1,3-DICHLOROPROPANE	1.8	2.534	2.131	2.333	2.285	2.212	2.31	2.203	2.25	2.228	2.279										2.233142	7.9	0.079	1
2-HEXANONE				0.539	0.689	0.767	0.788	0.774	0.828	0.841	0.856										0.760402	13.63	0.136	1
CHLORODIBROMOMETHANE		1.09	1.076	1.161	1.17	1.189	1.251	1.206	1.246	1.217	1.252										1.185772	5.32	0.053	1
1,2-DIBROMOETHANE		0.882	1.042	1.103	1.153	1.17	1.211	1.149	1.257	1.158	1.163										1.128785	9.2	0.092	1
CHLOROBENZENE	2.254	3.473	3.406	3.662	4.013	3.979	3.942	3.76	3.99	3.802	3.65										3.630055	13.81	0.138	1
1,1,1,2-TETRACHLOROETHANE		1.034	0.964	1.046	1.21	1.158	1.201	1.143	1.219	1.141	1.145										1.125942	7.5	0.075	1
ETHYLBENZENE		1.897	2.001	2.124	2.288	2.15	2.183	2.093	2.286	2.162	2.245										2.1428	5.76	0.058	1
M&P-XYLENE		2.516	2.404	2.57	2.873	2.867	2.766	2.746	2.801	2.787	2.531										2.686143	6.17	0.062	1
O-XYLENE		2.199	2.26	2.382	2.649	2.561	2.629	2.524	2.678	2.694	2.558										2.513419	6.97	0.07	1
STYRENE		3.332	3.4	3.82	4.112	4.224	4.29	4.128	4.374	4.272	4.322										4.027356	9.48	0.095	1
BROMOFORM			0.608	0.686	0.681	0.72	0.751	0.754	0.82	0.752	0.766										0.726377	8.45	0.084	1

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 6200
Review Protocol : SM 20th
Released By : Amy Green
Released On : 10/12/2015 11:21:26 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOPROPYLBENZENE	5.098	6.572	6.529	6.889	7.168	7.035	6.922	6.793	7.311	6.827	6.422										6.687701	8.85	0.088	1
4-BROMOFLUOROBENZENE	2.792	2.748	2.685	2.714	2.758	2.615	2.658	2.601	2.647	2.468	2.503										2.653572	3.86	0.039	1
BROMOBENZENE	1.964	2.677	2.824	3.088	3.081	3.039	3	2.909	3.069	3.01	3.094										2.886897	11.52	0.115	1
1,1,2,2-TETRACHLOROETHANE		1.26	1.448	1.568	1.639	1.686	1.679	1.673	1.695	1.593	1.669										1.590968	8.72	0.087	1
1,2,3-TRICHLOROPROPANE			0.404	0.416	0.466	0.498	0.494	0.46	0.501	0.473	0.454										0.46289	7.42	0.074	1
TRANS-1,4-DICHLORO-2-BUTENE				0.269	0.41	0.429	0.493	0.479	0.52	0.508	0.529										0.454591	18.89	0.999	0
N-PROPYLBENZENE	5.163	7.645	7.655	7.968	8.109	8.386	8.476	8.486	8.301	8.073	8.121										7.853077	11.94	0.119	1
4-ETHYLTOLUENE	4.814	6.057	6.041	6.489	6.799	6.746	6.767	6.698	6.944	6.786	6.535										6.425066	9.5	0.095	1
2-CHLOROTOLUENE	3.27	5.233	5.226	5.059	5.415	5.334	5.349	5.141	5.552	5.438	5.319										5.121402	12.29	0.123	1
4-CHLOROTOLUENE	3.234	4.597	4.705	4.794	4.895	4.861	4.802	4.819	5.162	4.917	4.722										4.682471	10.71	0.107	1
1,3,5-TRIMETHYLBENZENE		5.316	5.54	5.444	5.705	5.803	5.561	5.599	5.906	5.556	5.349										5.577756	3.36	0.034	1
TERT-BUTYLBENZENE	2.802	4.21	4.428	4.729	4.857	4.724	5.029	4.581	4.836	4.849	4.59										4.512111	13.53	0.135	1
1,2,4-TRIMETHYLBENZENE	3.54	4.593	4.893	5.036	5.304	5.529	5.516	5.4	5.752	5.459	5.301										5.120245	12.06	0.121	1
SEC-BUTYLBENZENE	4.853	7.091	6.737	7.366	7.634	7.478	7.683	7.175	7.31	7.759	7.027										7.101182	11.36	0.114	1
1,3-DICHLOROBENZENE	1.904	2.657	2.585	2.785	2.998	2.842	2.8	2.805	2.847	2.647	2.545										2.674036	10.76	0.108	1
P-ISOPROPYLTOLUENE		4.995	4.982	5.346	6.01	6.141	6.352	6.249	6.09	5.916	5.878										5.795738	8.71	0.087	1
DICYCLOPENTADIENE		5.617	5.92	6.635	6.705	6.846	7.116	6.792	7.151	7.388	6.938										6.710897	8.19	0.082	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	0.992	1.22	1.21	1.152	1.201	1.154	1.122	1.109	1.182	1.064	1.18										1.144261	6.02	0.06	1
1,2,3-TRIMETHYLBENZENE	1.514	2.088	2.021	2.169	2.213	2.127	2.186	2.249	2.511	2.218	2.46										2.15966	11.99	0.12	1
1,2-DICHLOROBENZENE		0.921	0.946	1.017	1.034	1.044	1.024	1.041	1.11	1.078	1.166										1.038081	6.91	0.069	1
N-BUTYLBENZENE		1.686	1.674	1.977	2.018	2.131	2.174	2.218	2.423	2.452	2.567										2.131984	14.25	0.143	1

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 6200
Review Protocol : SM 20th
Released By : Amy Green
Released On : 10/12/2015 11:21:26 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
1,2-DIBROMO-3-CHLOROPROPANE					0.102	0.111	0.125	0.124	0.146	0.136	0.159										0.128901	15.27	0.153	1
1,2,4-TRICHLOROBENZENE			0.446	0.561	0.565	0.629	0.641	0.652	0.683	0.659	0.765										0.622386	14.44	0.144	1
HEXACHLORO-1,3-BUTADIENE		0.319	0.317	0.348	0.356	0.338	0.34	0.364	0.383	0.368	0.393										0.352617	7.2	0.072	1
NAPHTHALENE				1.629	1.599	1.642	1.749	1.801	1.948	1.77	2.064										1.775199	9.15	0.091	1
1,2,3-TRICHLOROBENZENE		0.485	0.507	0.532	0.6	0.589	0.602	0.61	0.689	0.664	0.734										0.601159	13.23	0.132	1
1-METHYLNAPHTHALENE		0.705	0.728	0.78	0.823	0.918	0.94	0.944	1.027	0.933	1.021										0.88188	13.11	0.131	1
2-METHYLNAPHTHALENE		0.761	0.703	0.833	0.902	0.938	0.907	0.905	0.901	0.845	0.94										0.863558	9.11	0.091	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.006	0.007	0.007	0.007	0.007	0.008	0.007	0.007	0.007	0.007077	8.69	0.087	1
BROMOETHANE												0.321	0.334	0.37	0.347	0.365	0.373	0.369	0.36	0.382	0.357787	5.58	0.056	1
2-PROPANOL												0.032	0.039	0.04	0.039	0.042	0.048	0.04	0.039	0.039	0.039593	10.47	0.105	1
METHYL ACETATE												0.369	0.402	0.379	0.384	0.396	0.406	0.358	0.361	0.383	0.382028	4.55	0.045	1
ACETONITRILE												0.064	0.069	0.067	0.068	0.069	0.079	0.067	0.068	0.068	0.068815	6.13	0.061	1
ALLYL CHLORIDE												0.233	0.245	0.255	0.247	0.253	0.254	0.249	0.237	0.253	0.247308	3.11	0.031	1
TERT-BUTYL ALCOHOL												0.086	0.097	0.091	0.087	0.091	0.099	0.08	0.085	0.085	0.088899	6.7	0.067	1
CHLOROPRENE												0.735	0.788	0.807	0.771	0.789	0.818	0.796	0.799	0.805	0.789699	3.12	0.031	1
ETHYL TERT-BUTYL ETHER												1.4	1.325	1.359	1.374	1.321	1.366	1.33	1.337	1.355	1.351952	1.92	0.019	1
PROPIONITRILE												0.084	0.088	0.088	0.086	0.085	0.096	0.085	0.084	0.087	0.086718	4.25	0.043	1
ETHYL ACETATE												0.499	0.507	0.498	0.484	0.501	0.529	0.493	0.494	0.499	0.500533	2.51	0.025	1
METHACRYLONITRILE												0.226	0.234	0.226	0.218	0.226	0.244	0.224	0.217	0.232	0.227446	3.66	0.037	1
CYCLOHEXANE												1.199	1.183	1.238	1.209	1.248	1.283	1.238	1.206	1.245	1.227759	2.51	0.025	1
TERT-BUTYL FORMATE												0.372	0.372	0.381	0.38	0.387	0.388	0.379	0.391	0.381	0.381257	1.74	0.017	1

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INITIAL CALIBRATION SUMMARY

Instrument ID	: VOCMS8	Review Method	: 6200	Released By	: Amy Green
Method	: V808J11O	Review Protocol	: SM 20th	Released On	: 10/12/2015 11:21:26 AM

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ISOBUTANOL												0.036	0.036	0.034	0.037	0.039	0.044	0.035	0.038	0.036	0.037306	7.95	0.079	1
T-AMYL ALCOHOL												0.058	0.064	0.06	0.06	0.064	0.07	0.056	0.056	0.056	0.060322	8.01	0.08	1
TERT-AMYL METHYL ETHER												1.632	1.669	1.606	1.587	1.614	1.546	1.596	1.578	1.64	1.607601	2.27	0.023	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.009	0.01	0.011	0.011	0.011	0.014	0.011	0.012	0.01	0.011075	11.54	0.115	1
METHYL CYCLOHEXANE												1.102	0.867	0.794	0.779	0.759	0.804	0.75	0.776	0.746	0.819583	13.68	0.137	1
2-NITROPROPANE												0.065	0.07	0.072	0.08	0.08	0.09	0.08	0.084	0.08	0.077769	9.58	0.096	1
METHYL METHACRYLATE												0.227	0.233	0.239	0.231	0.232	0.25	0.222	0.249	0.223	0.233798	4.36	0.044	1
1,4-DIOXANE												0.003	0.004	0.004	0.004	0.004	0.004	0.003	0.004	0.003	0.003604	10.02	0.1	1
N-OCTANE												0.273	0.293	0.313	0.311	0.311	0.333	0.32	0.327	0.312	0.310344	5.78	0.058	1
3,3-DIMETHYL-1-BUTANOL																					0	0	0	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.463	1.563	1.621	1.788	1.746	1.868	1.779	1.85	1.831	1.723178	8.21	0.082	1
CIS-1,4-DICHLORO-2-BUTENE												0.389	0.41	0.434	0.506	0.499	0.523	0.508	0.526	0.48	0.475082	10.74	0.107	1
CYCLOHEXANONE																					0	0	0	1
PENTACHLOROETHANE												0.77	0.703	0.733	0.834	0.749	0.832	0.738	0.768	0.722	0.760818	6.03	0.06	1
HEXACHLOROETHANE												0.945	0.921	0.944	1.073	1.089	1.129	1.076	1.086	1.033	1.032851	7.4	0.074	1
AP9-1,4-DICHLOROBENZENE-D4																								

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 8260B
Review Protocol : SW846
Released By : Amy Green
Released On : 10/12/2015 11:22:02 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
8260-PENTAFLUOROBENZENE																								
TPH (GC/MS) LOW FRACTION																					0	0	0	1
PROPENE	0.118	0.163	0.144	0.132	0.112	0.12	0.117	0.122	0.124	0.129	0.129										0.128242	11.09	0.111	1
DICHLORODIFLUOROMETHANE		0.288	0.332	0.387	0.412	0.427	0.397	0.416	0.428	0.433	0.428										0.394819	12.15	0.121	1
CHLOROMETHANE			1.082	1.012	0.854	0.75	0.622	0.605	0.579	0.574	0.552										0.736825	27.35	0.997	0
VINYL CHLORIDE		0.486	0.502	0.589	0.564	0.578	0.57	0.585	0.594	0.581	0.604										0.565211	6.99	0.07	1
1,3-BUTADIENE	0.223	0.328	0.341	0.383	0.384	0.413	0.366	0.39	0.381	0.395	0.394										0.363547	14.45	0.145	1
BROMOMETHANE		0.137	0.14	0.141	0.117	0.126	0.113	0.111	0.115	0.122	0.117										0.123916	9.22	0.092	1
CHLOROETHANE				0.258	0.29	0.268	0.211	0.192													0.243818	16.8	0.991	0
TRICHLOROFLUOROMETHANE		0.469	0.535	0.591	0.585	0.587	0.551	0.521	0.522	0.47	0.357										0.518853	13.89	0.139	1
DICHLOROFLUORMETHANE		0.64	0.696	0.768	0.773	0.813	0.761	0.788	0.778	0.772	0.651										0.74399	8.04	0.08	1
ETHYL ETHER		0.294	0.312	0.345	0.348	0.372	0.351	0.367	0.38	0.377	0.386										0.353234	8.54	0.085	1
ACROLEIN		0.072	0.071	0.087	0.079	0.088	0.092	0.092	0.096	0.094	0.095										0.086561	10.88	0.109	1
1,1-DICHLOROETHENE		0.297	0.324	0.365	0.356	0.392	0.373	0.376	0.397	0.414	0.416										0.371076	10.25	0.102	1
1,1,2 -TRICHLOROTRIFLUOROETHANE		0.324	0.336	0.37	0.384	0.395	0.365	0.393	0.39	0.395	0.389										0.374091	6.81	0.068	1
ACETONE	0.242	0.289	0.263	0.288	0.264	0.277	0.257	0.256	0.272	0.254	0.233										0.26309	6.64	0.066	1
IODOMETHANE	0.234	0.256	0.235	0.271	0.3	0.369	0.416	0.46	0.466	0.486	0.473										0.360565	28.68	0.997	0
CARBON DISULFIDE	1.157	1.408	1.356	1.385	1.33	1.392	1.394	1.432	1.465	1.553	1.528										1.40009	7.55	0.075	1
METHYLENE CHLORIDE		0.347	0.379	0.43	0.414	0.436	0.396	0.414	0.44	0.447	0.442										0.41451	7.75	0.078	1
ACRYLONITRILE		0.137	0.138	0.159	0.162	0.174	0.164	0.17	0.176	0.176	0.181										0.163876	9.39	0.094	1
N-HEXANE		0.373	0.42	0.465	0.449	0.474	0.444	0.459	0.482	0.501	0.496										0.456235	8.34	0.083	1
TRANS-1,2-DICHLOROETHENE		0.362	0.387	0.425	0.411	0.438	0.424	0.445	0.453	0.449	0.464										0.425967	7.43	0.074	1

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Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 8260B
Review Protocol : SW846
Released By : Amy Green
Released On : 10/12/2015 11:22:02 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
METHYL TERT-BUTYL ETHER		1.125	1.068	1.245	1.178	1.248	1.2	1.264	1.318	1.292	1.371										1.230938	7.36	0.074	1
1,1-DICHLOROETHANE		0.601	0.711	0.751	0.724	0.787	0.758	0.81	0.829	0.839	0.865										0.767474	10.07	0.101	1
VINYL ACETATE	0.41	0.641	0.597	0.662	0.62	0.727	0.664	0.687	0.764	0.736	0.665										0.652154	14.55	0.145	1
DI-ISOPROPYL ETHER		1.226	1.235	1.347	1.3	1.368	1.311	1.417	1.42	1.461	1.499										1.358483	6.78	0.068	1
2,2-DICHLOROPROPANE		0.616	0.605	0.665	0.641	0.678	0.638	0.665	0.706	0.726	0.716										0.665618	6.23	0.062	1
CIS-1,2-DICHLOROETHENE		0.375	0.426	0.455	0.438	0.472	0.449	0.458	0.464	0.473	0.484										0.449269	6.94	0.069	1
2-BUTANONE (MEK)	0.209	0.293	0.266	0.316	0.292	0.317	0.308	0.304	0.343	0.333	0.327										0.300812	12.43	0.124	1
BROMOCHLOROMETHANE		0.16	0.182	0.23	0.23	0.234	0.214	0.215	0.221	0.224	0.202										0.211291	11.26	0.113	1
TETRAHYDROFURAN	0.196	0.192	0.148	0.163	0.153	0.162	0.155	0.155	0.165	0.164	0.159										0.164754	9.31	0.093	1
CHLOROFORM	0.436	0.655	0.645	0.728	0.676	0.709	0.673	0.728	0.712	0.73	0.743										0.67588	12.73	0.127	1
DIBROMOFLUOROMETHANE	0.501	0.487	0.502	0.528	0.479	0.494	0.492	0.506	0.507	0.497	0.504										0.499796	2.57	0.026	1
1,1,1-TRICHLOROETHANE		0.519	0.507	0.565	0.565	0.596	0.552	0.585	0.635	0.646	0.642										0.581113	8.47	0.085	1
CARBON TETRACHLORIDE		0.417	0.435	0.478	0.492	0.516	0.49	0.491	0.532	0.548	0.547										0.494668	8.89	0.089	1
1,1-DICHLOROPROPENE		0.474	0.534	0.603	0.56	0.604	0.576	0.606	0.628	0.639	0.641										0.586543	8.91	0.089	1
2,2,4-TRIMETHYLPENTANE	1.508	2.261	2.245	2.441	2.375	2.519	2.465	2.531	2.578	2.683	2.754										2.396259	13.93	0.139	1
HEPTANE		0.372	0.458	0.514	0.516	0.568	0.529	0.567	0.586	0.618	0.601										0.53281	13.9	0.139	1
BENZENE		1.703	1.627	1.89	1.813	1.841	1.745	1.806	1.857	1.927	1.984										1.819298	5.84	0.058	1
1,2-DICHLOROETHANE		0.49	0.464	0.541	0.501	0.529	0.523	0.551	0.559	0.584	0.578										0.531972	7.28	0.073	1
8260-1,4-DIFLUOROBENZENE																								
TRICHLOROETHENE		0.222	0.228	0.237	0.236	0.25	0.234	0.248	0.24	0.226	0.248										0.236819	4.05	0.04	1
1,2-DICHLOROPROPANE		0.168	0.165	0.181	0.173	0.178	0.179	0.186	0.184	0.182	0.189										0.178454	4.25	0.042	1
DIBROMOMETHANE		0.095	0.106	0.113	0.118	0.126	0.123	0.134	0.131	0.125	0.133										0.120372	10.51	0.105	1

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
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Review Method : 8260B
Review Protocol : SW846
Released By : Amy Green
Released On : 10/12/2015 11:22:02 AM

INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
BROMODICHLOROMETHANE		0.283	0.264	0.293	0.276	0.3	0.296	0.306	0.295	0.298	0.316										0.292548	5.1	0.051	1
A,A,A-TRIFLUOROTOLUENE	0.531	0.513	0.519	0.53	0.517	0.512	0.508	0.522	0.508	0.485	0.485										0.511911	3.02	0.03	1
-CHLOROETHYL VINYL ETHER		0.102	0.106	0.116	0.115	0.126	0.131	0.136	0.136	0.128	0.134										0.122969	10.02	0.1	1
CIS-1,3-DICHLOROPROPENE		0.326	0.343	0.392	0.367	0.384	0.392	0.409	0.412	0.395	0.429										0.384967	8.22	0.082	1
4-METHYL-2-PENTANONE (MIBK)		0.186	0.194	0.221	0.222	0.241	0.253	0.247	0.264	0.244	0.256										0.232824	11.28	0.113	1
TOLUENE-D8	1.235	1.264	1.21	1.239	1.148	1.214	1.153	1.276	1.179	1.155	1.145										1.20163	4.01	0.04	1
TOLUENE	0.991	1.147	1.047	1.104	1.006	1.138	1.024	1.142	1.07	1.088	1.092										1.077083	5.11	0.051	1
TRANS-1,3-DICHLOROPROPENE		0.282	0.276	0.309	0.31	0.339	0.347	0.364	0.369	0.346	0.379										0.332022	10.85	0.109	1
8260-2-BROMO-1 -CHLOROPROPANE																								
1,1,2-TRICHLOROETHANE		1.064	1.14	1.178	1.204	1.213	1.186	1.198	1.232	1.206	1.143										1.176398	4.16	0.042	1
TETRACHLOROETHENE		0.883	1.069	1.054	1.117	1.047	1.077	1.014	1.034	1.01	1.026										1.032996	5.98	0.06	1
1,3-DICHLOROPROPANE	1.8	2.534	2.131	2.333	2.285	2.212	2.31	2.203	2.25	2.228	2.279										2.233142	7.9	0.079	1
2-HEXANONE				0.539	0.689	0.767	0.788	0.774	0.828	0.841	0.856										0.760402	13.63	0.136	1
CHLORODIBROMOMETHANE		1.09	1.076	1.161	1.17	1.189	1.251	1.206	1.246	1.217	1.252										1.185772	5.32	0.053	1
1,2-DIBROMOETHANE		0.882	1.042	1.103	1.153	1.17	1.211	1.149	1.257	1.158	1.163										1.128785	9.2	0.092	1
CHLOROBENZENE	2.254	3.473	3.406	3.662	4.013	3.979	3.942	3.76	3.99	3.802	3.65										3.630055	13.81	0.138	1
1,1,1,2-TETRACHLOROETHANE		1.034	0.964	1.046	1.21	1.158	1.201	1.143	1.219	1.141	1.145										1.125942	7.5	0.075	1
ETHYLBENZENE		1.897	2.001	2.124	2.288	2.15	2.183	2.093	2.286	2.162	2.245										2.1428	5.76	0.058	1
M&P-XYLENE		2.516	2.404	2.57	2.873	2.867	2.766	2.746	2.801	2.787	2.531										2.686143	6.17	0.062	1
O-XYLENE		2.199	2.26	2.382	2.649	2.561	2.629	2.524	2.678	2.694	2.558										2.513419	6.97	0.07	1
STYRENE		3.332	3.4	3.82	4.112	4.224	4.29	4.128	4.374	4.272	4.322										4.027356	9.48	0.095	1
BROMOFORM			0.608	0.686	0.681	0.72	0.751	0.754	0.82	0.752	0.766										0.726377	8.45	0.084	1

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INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
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Review Method : 8260B
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Released By : Amy Green
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INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOPROPYLBENZENE	5.098	6.572	6.529	6.889	7.168	7.035	6.922	6.793	7.311	6.827	6.422										6.687701	8.85	0.088	1
4-BROMOFLUOROBENZENE	2.792	2.748	2.685	2.714	2.758	2.615	2.658	2.601	2.647	2.468	2.503										2.653572	3.86	0.039	1
BROMOBENZENE	1.964	2.677	2.824	3.088	3.081	3.039	3	2.909	3.069	3.01	3.094										2.886897	11.52	0.115	1
1,1,2,2-TETRACHLOROETHANE		1.26	1.448	1.568	1.639	1.686	1.679	1.673	1.695	1.593	1.669										1.590968	8.72	0.087	1
1,2,3-TRICHLOROPROPANE			0.404	0.416	0.466	0.498	0.494	0.46	0.501	0.473	0.454										0.46289	7.42	0.074	1
TRANS-1,4-DICHLORO-2-BUTENE				0.269	0.41	0.429	0.493	0.479	0.52	0.508	0.529										0.454591	18.89	0.999	0
N-PROPYLBENZENE	5.163	7.645	7.655	7.968	8.109	8.386	8.476	8.486	8.301	8.073	8.121										7.853077	11.94	0.119	1
4-ETHYLTOLUENE	4.814	6.057	6.041	6.489	6.799	6.746	6.767	6.698	6.944	6.786	6.535										6.425066	9.5	0.095	1
2-CHLOROTOLUENE	3.27	5.233	5.226	5.059	5.415	5.334	5.349	5.141	5.552	5.438	5.319										5.121402	12.29	0.123	1
4-CHLOROTOLUENE	3.234	4.597	4.705	4.794	4.895	4.861	4.802	4.819	5.162	4.917	4.722										4.682471	10.71	0.107	1
1,3,5-TRIMETHYLBENZENE		5.316	5.54	5.444	5.705	5.803	5.561	5.599	5.906	5.556	5.349										5.577756	3.36	0.034	1
TERT-BUTYLBENZENE	2.802	4.21	4.428	4.729	4.857	4.724	5.029	4.581	4.836	4.849	4.59										4.512111	13.53	0.135	1
1,2,4-TRIMETHYLBENZENE	3.54	4.593	4.893	5.036	5.304	5.529	5.516	5.4	5.752	5.459	5.301										5.120245	12.06	0.121	1
SEC-BUTYLBENZENE	4.853	7.091	6.737	7.366	7.634	7.478	7.683	7.175	7.31	7.759	7.027										7.101182	11.36	0.114	1
1,3-DICHLOROBENZENE	1.904	2.657	2.585	2.785	2.998	2.842	2.8	2.805	2.847	2.647	2.545										2.674036	10.76	0.108	1
P-ISOPROPYLTOLUENE		4.995	4.982	5.346	6.01	6.141	6.352	6.249	6.09	5.916	5.878										5.795738	8.71	0.087	1
DICYCLOPENTADIENE		5.617	5.92	6.635	6.705	6.846	7.116	6.792	7.151	7.388	6.938										6.710897	8.19	0.082	1
8260-1,4-DICHLOROBENZENE-D4																								
1,4-DICHLOROBENZENE	0.992	1.22	1.21	1.152	1.201	1.154	1.122	1.109	1.182	1.064	1.18										1.144261	6.02	0.06	1
1,2,3-TRIMETHYLBENZENE	1.514	2.088	2.021	2.169	2.213	2.127	2.186	2.249	2.511	2.218	2.46										2.15966	11.99	0.12	1
1,2-DICHLOROBENZENE		0.921	0.946	1.017	1.034	1.044	1.024	1.041	1.11	1.078	1.166										1.038081	6.91	0.069	1
N-BUTYLBENZENE		1.686	1.674	1.977	2.018	2.131	2.174	2.218	2.423	2.452	2.567										2.131984	14.25	0.143	1

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1,2-DIBROMO-3-CHLOROPROPANE					0.102	0.111	0.125	0.124	0.146	0.136	0.159										0.128901	15.27	0.153	1
1,2,4-TRICHLOROBENZENE			0.446	0.561	0.565	0.629	0.641	0.652	0.683	0.659	0.765										0.622386	14.44	0.144	1
HEXACHLORO-1,3-BUTADIENE		0.319	0.317	0.348	0.356	0.338	0.34	0.364	0.383	0.368	0.393										0.352617	7.2	0.072	1
NAPHTHALENE				1.629	1.599	1.642	1.749	1.801	1.948	1.77	2.064										1.775199	9.15	0.091	1
1,2,3-TRICHLOROBENZENE		0.485	0.507	0.532	0.6	0.589	0.602	0.61	0.689	0.664	0.734										0.601159	13.23	0.132	1
1-METHYLNAPHTHALENE		0.705	0.728	0.78	0.823	0.918	0.94	0.944	1.027	0.933	1.021										0.88188	13.11	0.131	1
2-METHYLNAPHTHALENE		0.761	0.703	0.833	0.902	0.938	0.907	0.905	0.901	0.845	0.94										0.863558	9.11	0.091	1
AP9-PENTAFLUOROBENZENE																								
ETHANOL												0.006	0.007	0.007	0.007	0.007	0.008	0.007	0.007	0.007	0.007077	8.69	0.087	1
BROMOETHANE												0.321	0.334	0.37	0.347	0.365	0.373	0.369	0.36	0.382	0.357787	5.58	0.056	1
2-PROPANOL												0.032	0.039	0.04	0.039	0.042	0.048	0.04	0.039	0.039	0.039593	10.47	0.105	1
METHYL ACETATE												0.369	0.402	0.379	0.384	0.396	0.406	0.358	0.361	0.383	0.382028	4.55	0.045	1
ACETONITRILE												0.064	0.069	0.067	0.068	0.069	0.079	0.067	0.068	0.068	0.068815	6.13	0.061	1
ALLYL CHLORIDE												0.233	0.245	0.255	0.247	0.253	0.254	0.249	0.237	0.253	0.247308	3.11	0.031	1
TERT-BUTYL ALCOHOL												0.086	0.097	0.091	0.087	0.091	0.099	0.08	0.085	0.085	0.088899	6.7	0.067	1
CHLOROPRENE												0.735	0.788	0.807	0.771	0.789	0.818	0.796	0.799	0.805	0.789699	3.12	0.031	1
ETHYL TERT-BUTYL ETHER												1.4	1.325	1.359	1.374	1.321	1.366	1.33	1.337	1.355	1.351952	1.92	0.019	1
PROPIONITRILE												0.084	0.088	0.088	0.086	0.085	0.096	0.085	0.084	0.087	0.086718	4.25	0.043	1
ETHYL ACETATE												0.499	0.507	0.498	0.484	0.501	0.529	0.493	0.494	0.499	0.500533	2.51	0.025	1
METHACRYLONITRILE												0.226	0.234	0.226	0.218	0.226	0.244	0.224	0.217	0.232	0.227446	3.66	0.037	1
CYCLOHEXANE												1.199	1.183	1.238	1.209	1.248	1.283	1.238	1.206	1.245	1.227759	2.51	0.025	1
TERT-BUTYL FORMATE												0.372	0.372	0.381	0.38	0.387	0.388	0.379	0.391	0.381	0.381257	1.74	0.017	1

PDF Generated On: 10/12/2015 -- By: Amy Green

Environmental Science Corporation
12065 Lebanon Rd., Mt. Juliet, TN 37122

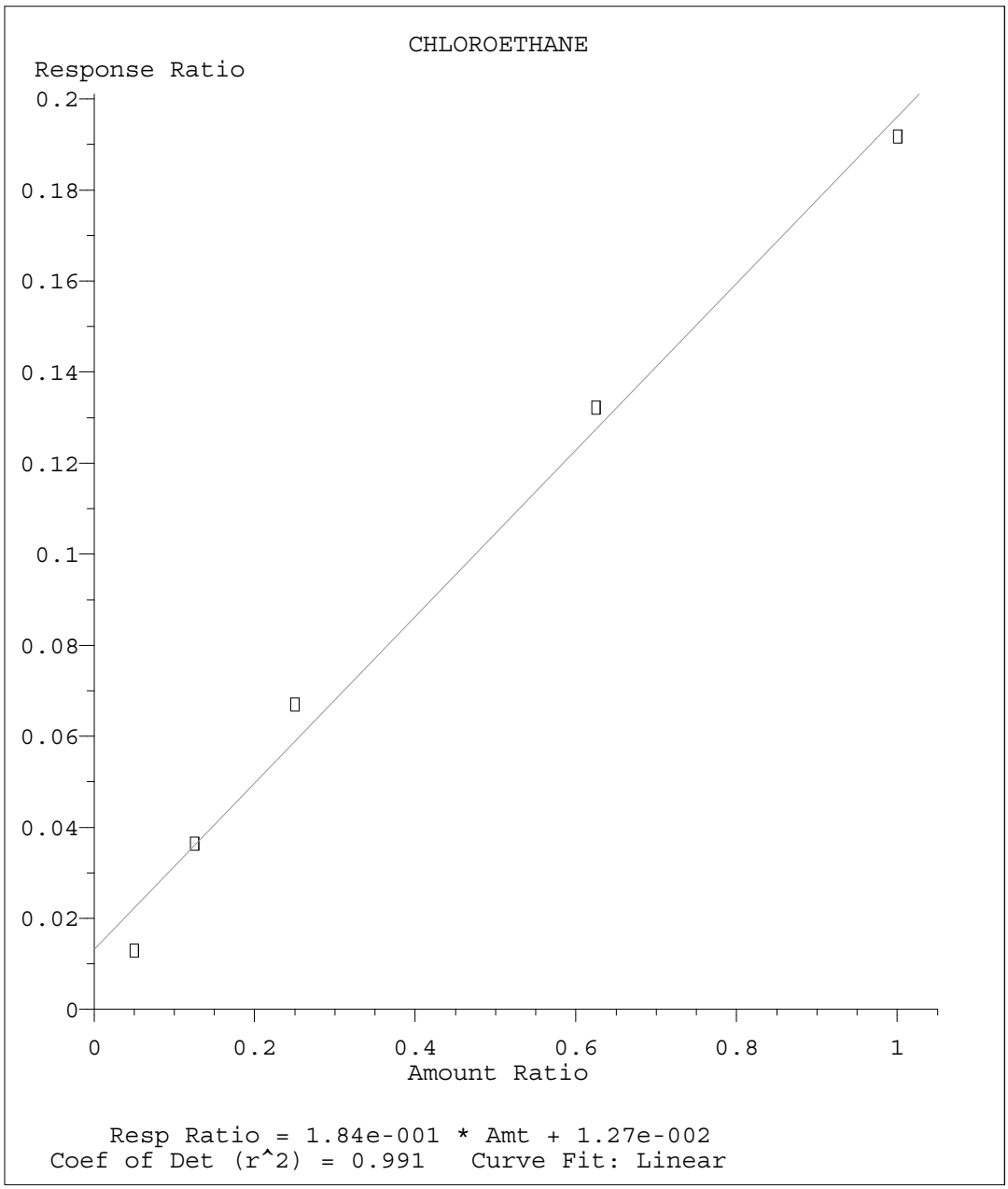
INITIAL CALIBRATION SUMMARY

Instrument ID : VOCMS8
Method : V808J11O
Review Method : 8260B
Review Protocol : SW846
Released By : Amy Green
Released On : 10/12/2015 11:22:02 AM

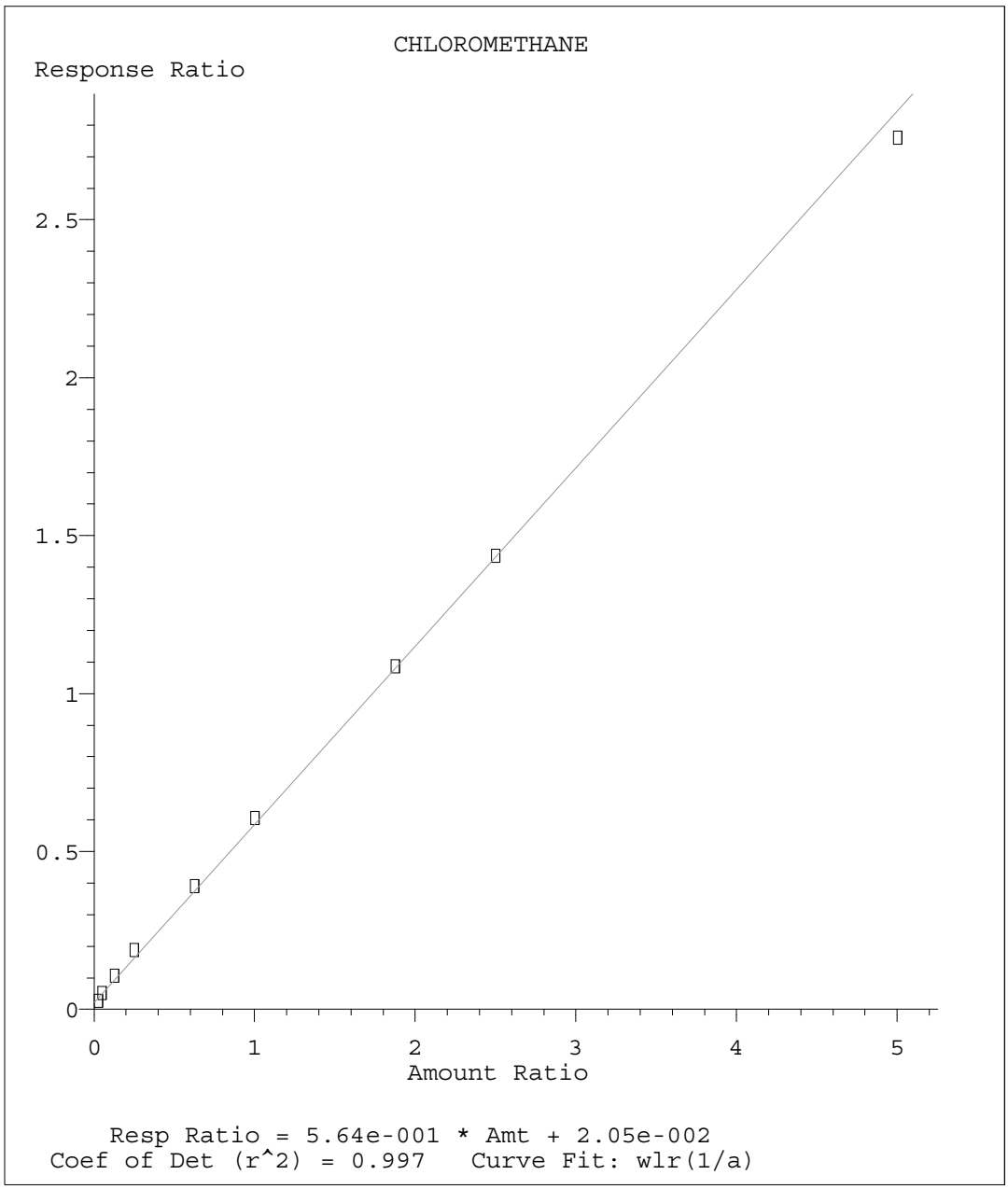
INITIAL CALIBRATION SUMMARY(C = 1 --> Average Response, C = 0 --> Linear Regression, C = 3 --> Quadratic) -- V808J11O -- ICal Updated Time: Mon Oct 12 11:06:11 2015

Parameter	.25	.50	1	2	5.0	10	25	40	75	100	200	1A	2.5A	5A	7.5A	10A	12A	15A	17A	20A	AvgRF	%RSD	COD	Cur
ISOBUTANOL												0.036	0.036	0.034	0.037	0.039	0.044	0.035	0.038	0.036	0.037306	7.95	0.079	1
T-AMYL ALCOHOL												0.058	0.064	0.06	0.06	0.064	0.07	0.056	0.056	0.056	0.060322	8.01	0.08	1
TERT-AMYL METHYL ETHER												1.632	1.669	1.606	1.587	1.614	1.546	1.596	1.578	1.64	1.607601	2.27	0.023	1
AP9-1,4-DIFLUOROBENZENE																								
N-BUTANOL												0.009	0.01	0.011	0.011	0.011	0.014	0.011	0.012	0.01	0.011075	11.54	0.115	1
METHYL CYCLOHEXANE												1.102	0.867	0.794	0.779	0.759	0.804	0.75	0.776	0.746	0.819583	13.68	0.137	1
2-NITROPROPANE												0.065	0.07	0.072	0.08	0.08	0.09	0.08	0.084	0.08	0.077769	9.58	0.096	1
METHYL METHACRYLATE												0.227	0.233	0.239	0.231	0.232	0.25	0.222	0.249	0.223	0.233798	4.36	0.044	1
1,4-DIOXANE												0.003	0.004	0.004	0.004	0.004	0.004	0.003	0.004	0.003	0.003604	10.02	0.1	1
N-OCTANE												0.273	0.293	0.313	0.311	0.311	0.333	0.32	0.327	0.312	0.310344	5.78	0.058	1
3,3-DIMETHYL-1-BUTANOL																					0	0	0	1
AP9-2-BROMO-1 -CHLOROPROPANE																								
ETHYL METHACRYLATE												1.463	1.563	1.621	1.788	1.746	1.868	1.779	1.85	1.831	1.723178	8.21	0.082	1
CIS-1,4-DICHLORO-2-BUTENE												0.389	0.41	0.434	0.506	0.499	0.523	0.508	0.526	0.48	0.475082	10.74	0.107	1
CYCLOHEXANONE																					0	0	0	1
PENTACHLOROETHANE												0.77	0.703	0.733	0.834	0.749	0.832	0.738	0.768	0.722	0.760818	6.03	0.06	1
HEXACHLOROETHANE												0.945	0.921	0.944	1.073	1.089	1.129	1.076	1.086	1.033	1.032851	7.4	0.074	1
AP9-1,4-DICHLOROBENZENE-D4																								

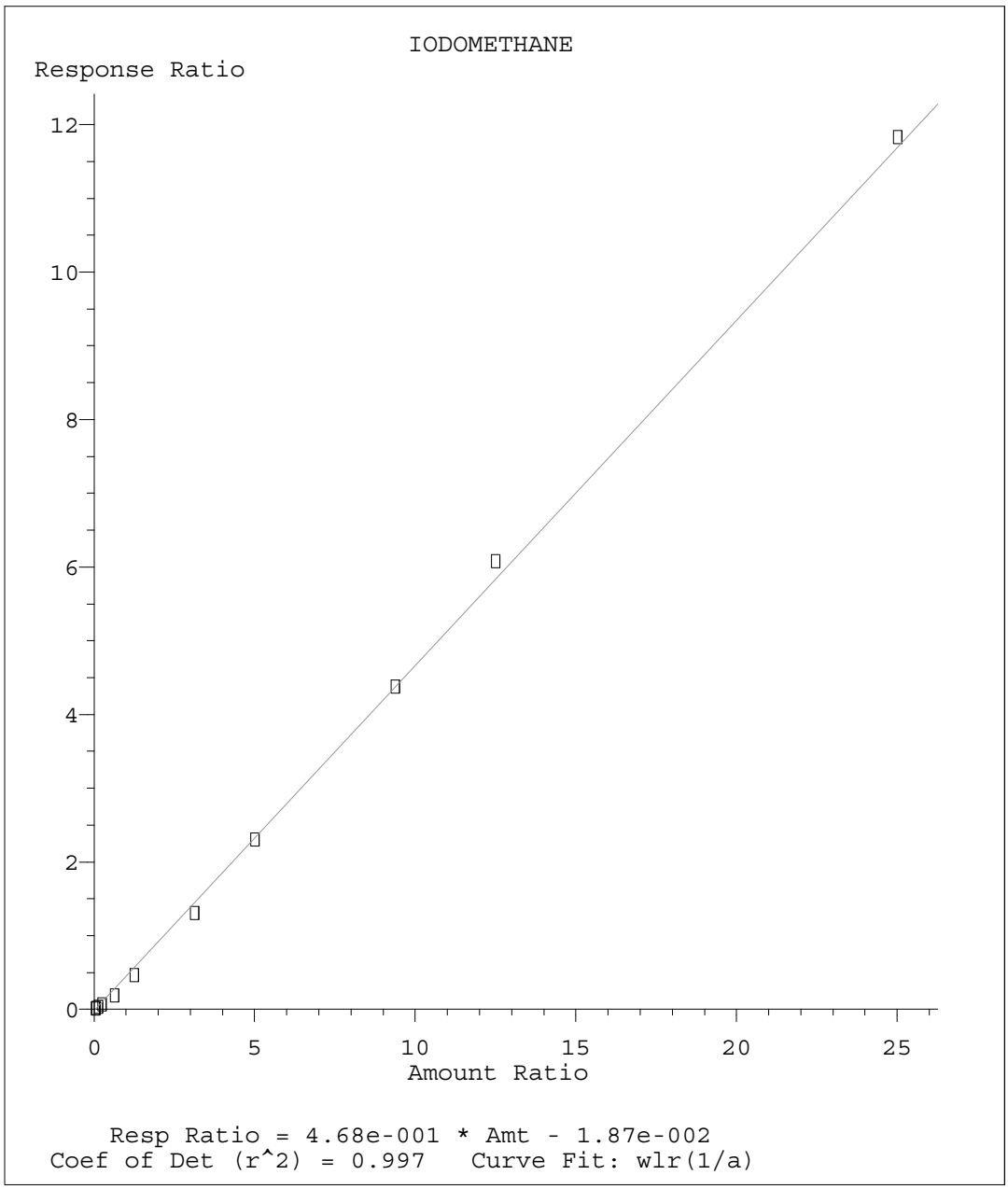
PDF Generated On: 10/12/2015 -- By: Amy Green



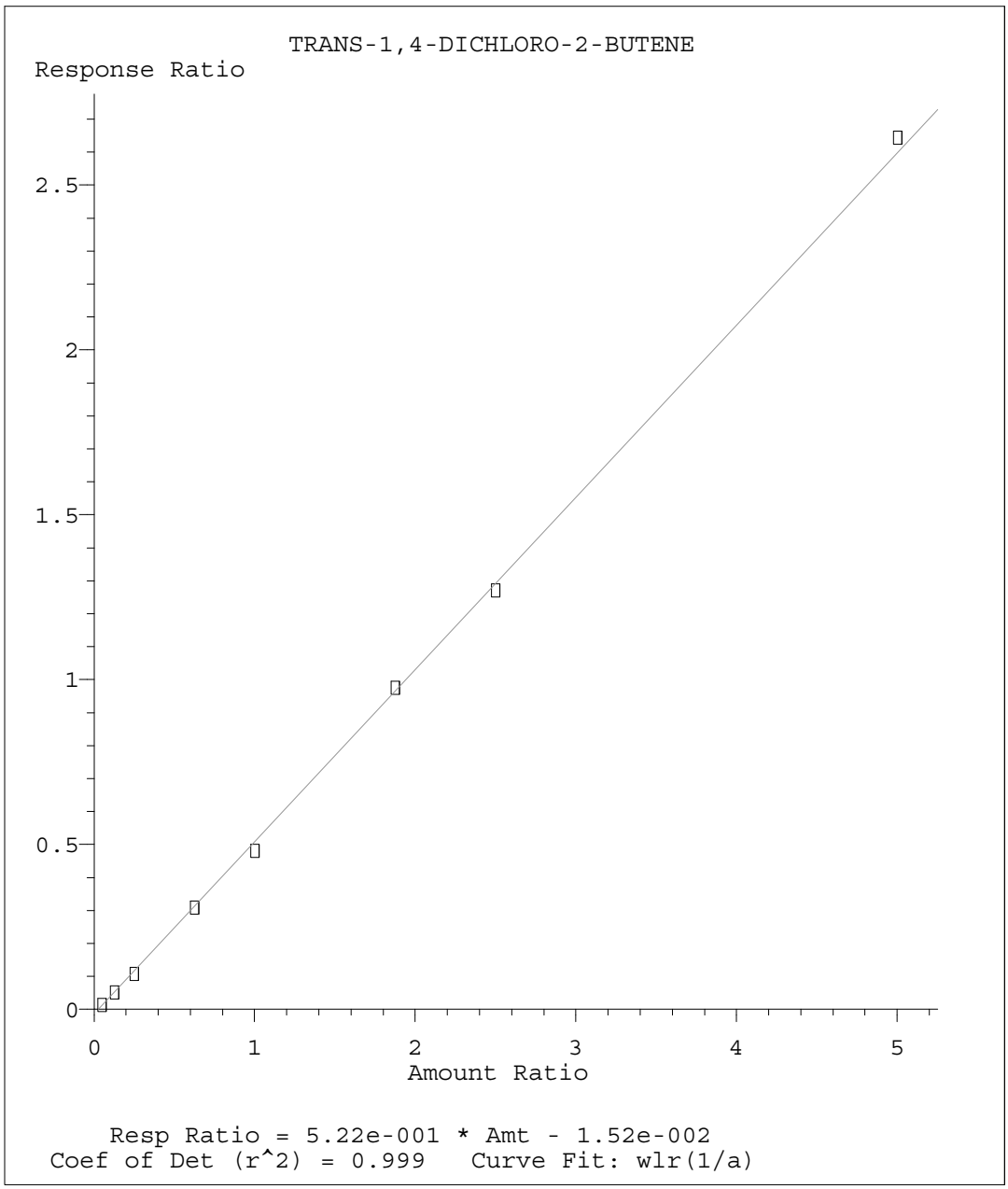
Method Name: C:\MSDCHEM\1\METHODS\V808J11O.M



Method Name: C:\MSDCHEM\1\METHODS\V808J11O.M



Method Name: C:\MSDCHEM\1\METHODS\V808J11O.M



Method Name: C:\MSDCHEM\1\METHODS\V808J11O.M

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 03.D Vial: 3
Acq On : 11 Oct 2015 6:24 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57:34 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

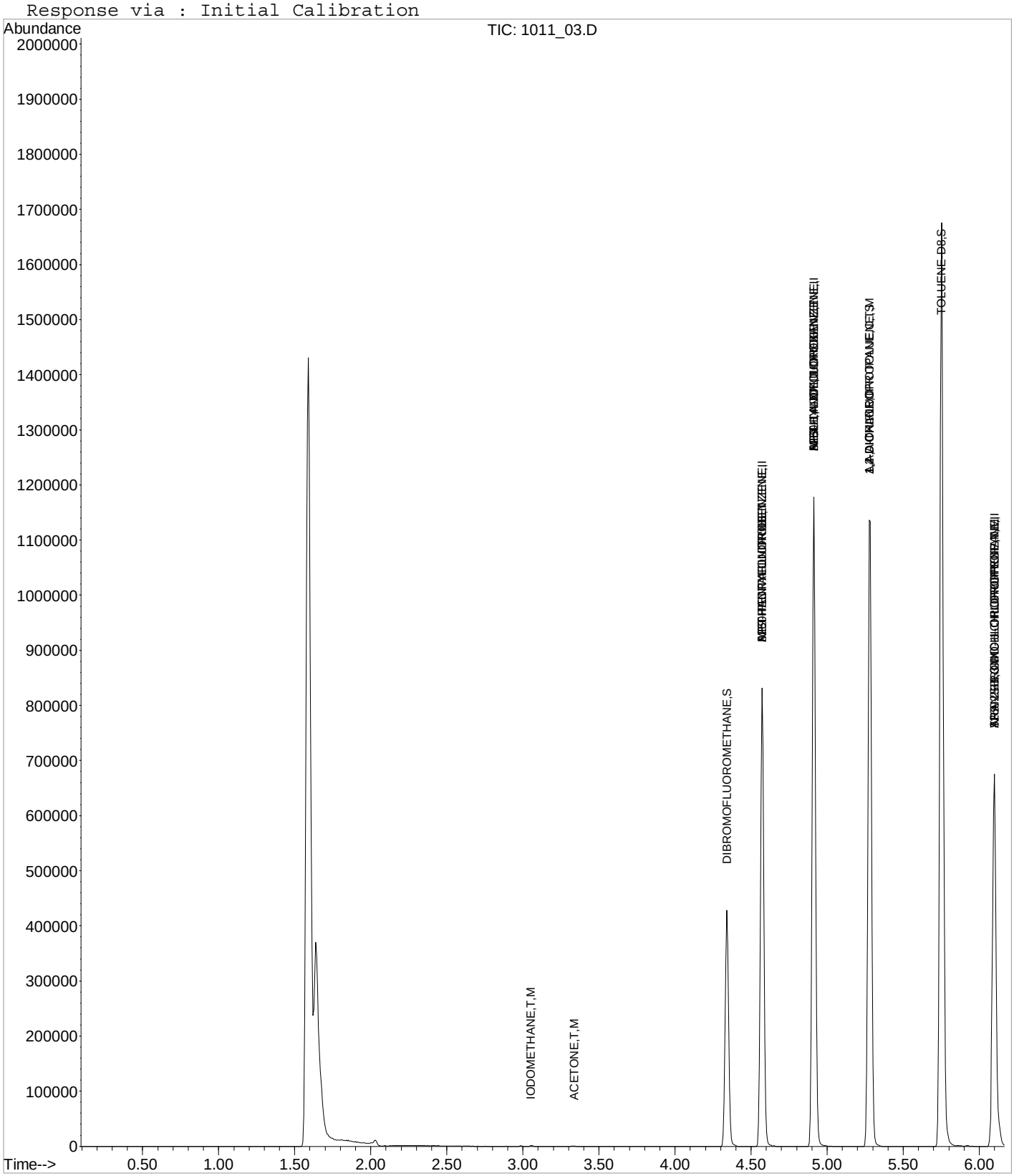
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	440499	40.00	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	775695	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	130928	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	315572	40.00	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.57	168	440931	40.00	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	775695	40.00	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.10	79	130928	40.00	ppb	0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	315572	40.00	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.34	111	220756	40.1083868	ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 100.27%			
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	442703	44.5950980	ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 111.49%			
50) TOLUENE-D8	5.75	98	1001571	42.9813549	ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 107.45%			
68) 4-BROMOFLUOROBENZENE	7.64	95	341665	39.3366201	ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 98.34%			
Target Compounds						Qvalue
5) CHLOROMETHANE	2.00	50	1968	Below Cal	#	49
16) ACETONE	3.34	43	1089	0.3758708	ppb #	39
17) IODOMETHANE	3.06	142	1841	1.9586103	ppb #	57
43) 1,2-DICHLOROPROPANE	5.28	62	7537	2.1779172	ppb #	26
52) TRANS-1,3-DICHLOROPROPENE	6.09	75	5871	0.9118294	ppb #	1
108) METHACRYLONITRILE	4.57	67	1100	0.4387356	ppb #	1
115) N-BUTANOL	4.91	56	15395	71.6803334	ppb #	23
116) METHYL CYCLOHEXANE	4.91	83	8875	0.5583989	ppb #	41
119) 1,4-DIOXANE	5.28	88	4923	70.4299306	ppb #	23

(#) = qualifier out of range (m) = manual integration
1011_03.D V808J11O.M Mon Oct 12 10:57:38 2015 1656 of 1797 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 03.D Vial: 3
Acq On : 11 Oct 2015 6:24 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57 2015 Quant Results File: V808J11O.RES

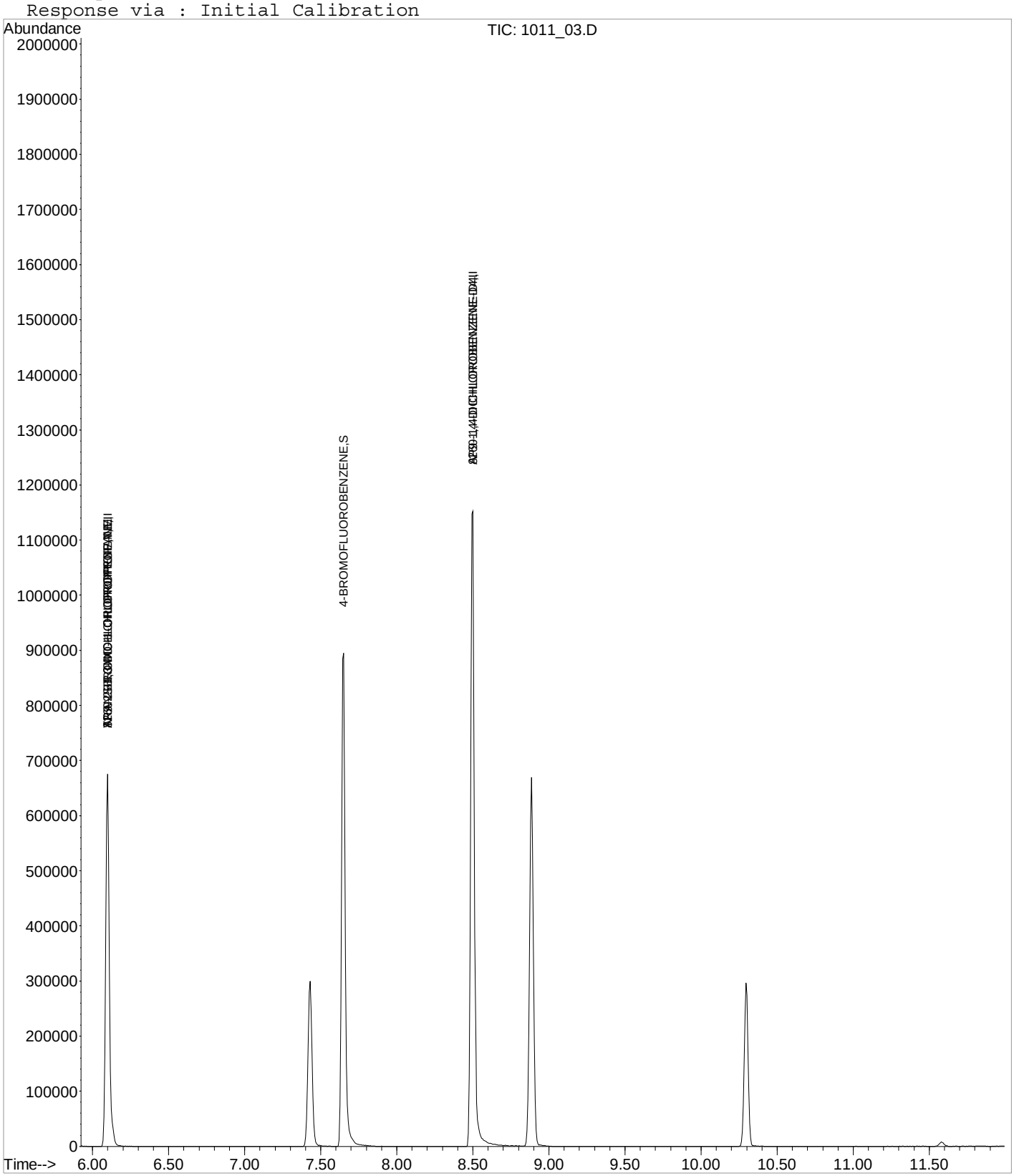
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_03.D Vial: 3
Acq On : 11 Oct 2015 6:24 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 03.D Vial: 3
Acq On : 11 Oct 2015 6:24 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57:34 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

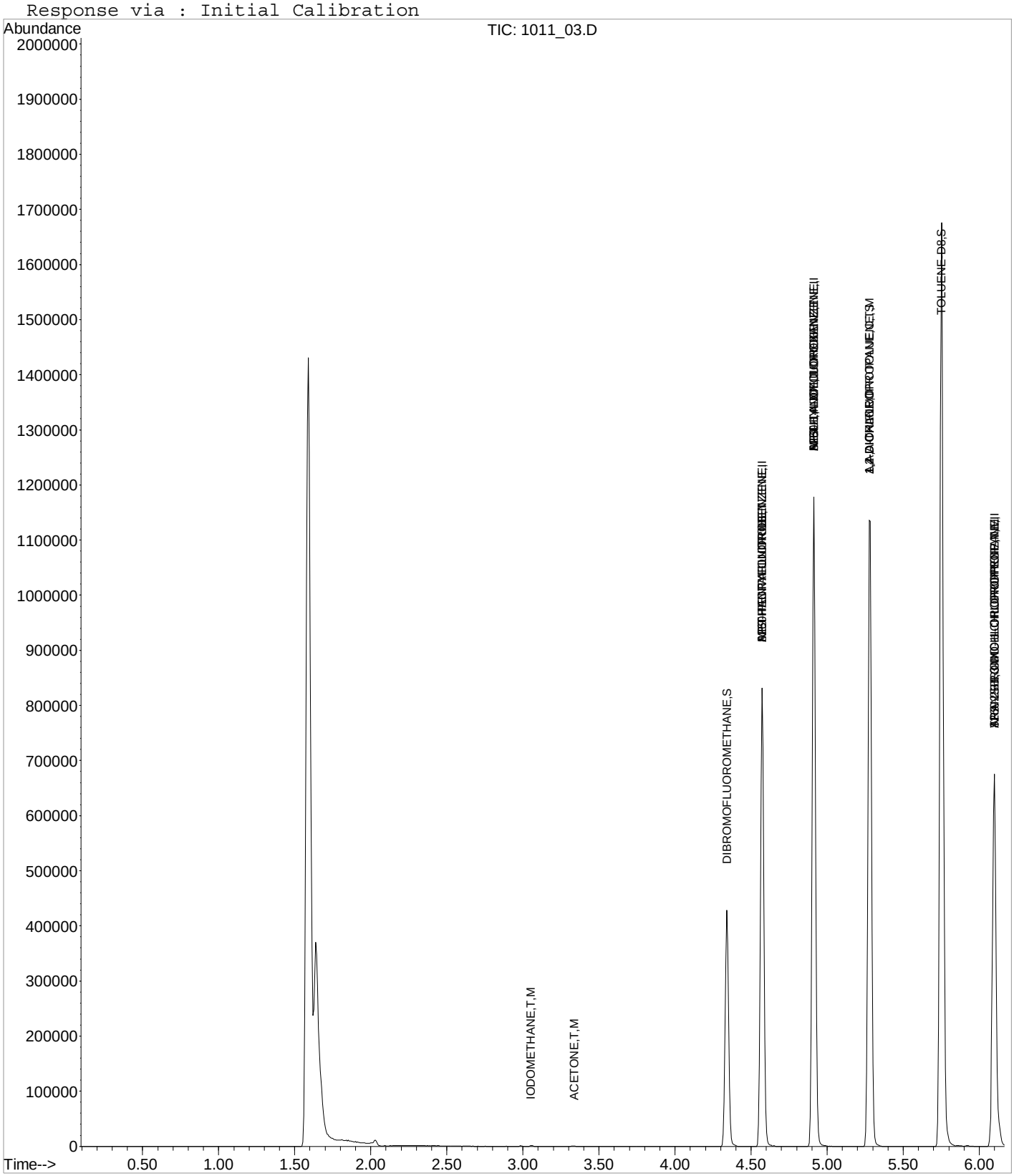
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	440499	40.00	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	775695	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	130928	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	315572	40.00	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.57	168	440931	40.00	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	775695	40.00	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.10	79	130928	40.00	ppb	0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	315572	40.00	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.34	111	220756	40.1083868	ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 100.27%			
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	442703	44.5950980	ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 111.49%			
50) TOLUENE-D8	5.75	98	1001571	42.9813549	ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 107.45%			
68) 4-BROMOFLUOROBENZENE	7.64	95	341665	39.3366201	ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 98.34%			
Target Compounds						Qvalue
5) CHLOROMETHANE	2.00	50	1968	Below Cal	#	49
16) ACETONE	3.34	43	1089	0.3758708	ppb #	39
17) IODOMETHANE	3.06	142	1841	1.9586103	ppb #	57
43) 1,2-DICHLOROPROPANE	5.28	62	7537	2.1779172	ppb #	26
52) TRANS-1,3-DICHLOROPROPENE	6.09	75	5871	0.9118294	ppb #	1
108) METHACRYLONITRILE	4.57	67	1100	0.4387356	ppb #	1
115) N-BUTANOL	4.91	56	15395	71.6803334	ppb #	23
116) METHYL CYCLOHEXANE	4.91	83	8875	0.5583989	ppb #	41
119) 1,4-DIOXANE	5.28	88	4923	70.4299306	ppb #	23

(#) = qualifier out of range (m) = manual integration
1011_03.D V808J11O.M Mon Oct 12 10:57:38 2015 1659 of 1797 Page 1

Quantitation Report (QT Reviewed)

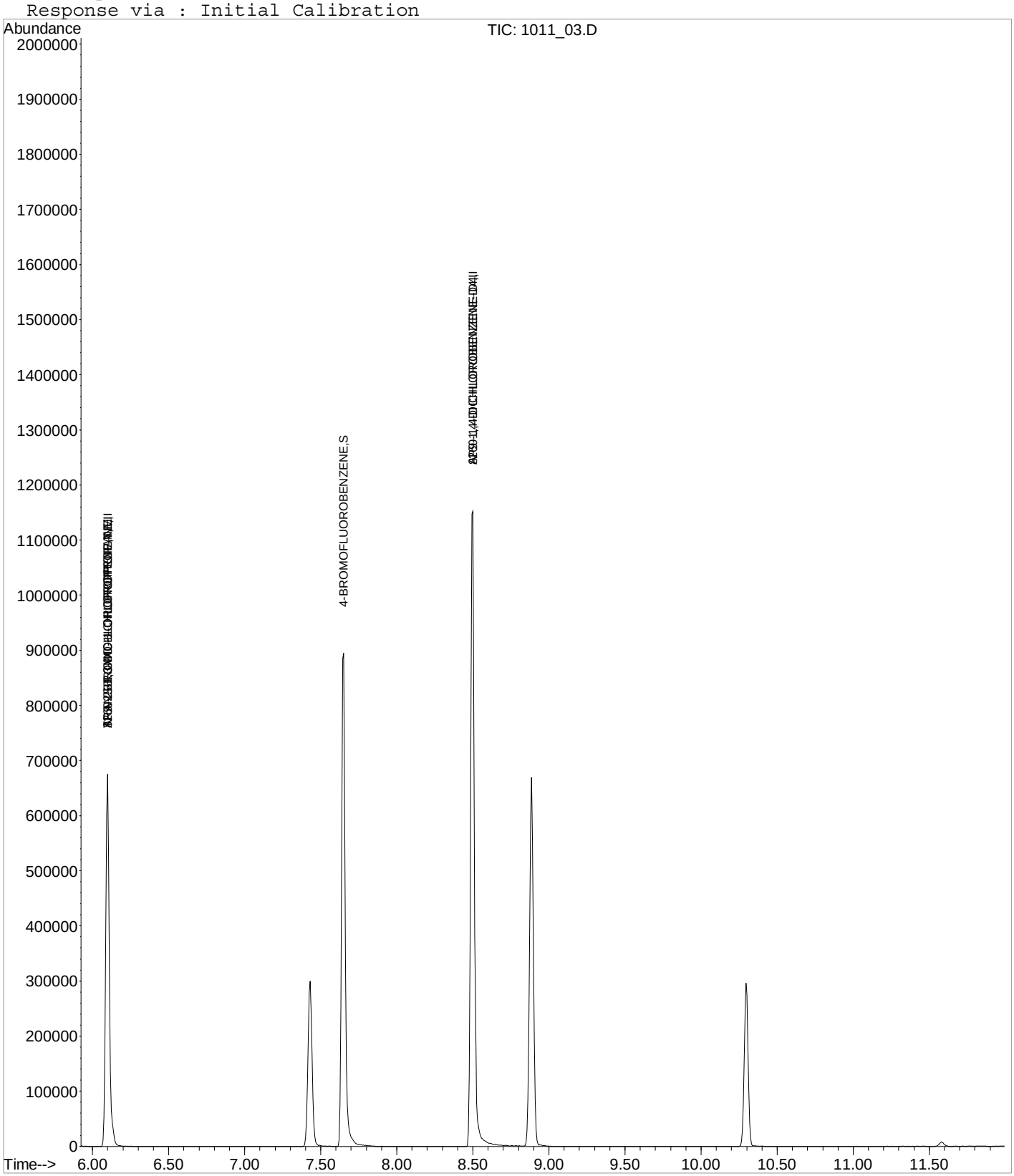
Data File : C:\MSDCHEM\1\DATA\101115\1011 03.D Vial: 3
Acq On : 11 Oct 2015 6:24 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\101115\1011_03.D Vial: 3
Acq On : 11 Oct 2015 6:24 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 06A.D Vial: 6
Acq On : 11 Oct 2015 7:36 pm Operator: 591
Sample : RL VMS 1 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:06:47 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	450312	40.00 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	794664	40.00 ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	128953	40.00 ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.49	152	312734	40.00 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.57	168	450658	40.00 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	794664	40.00 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.10	79	128953	40.00 ppb	0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.49	152	312734	40.00 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.34	111	231866	41.2089126 ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 103.02%		
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	422492	41.5432626 ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 103.86%		
50) TOLUENE-D8	5.75	98	985535	41.2836289 ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 103.21%		
68) 4-BROMOFLUOROBENZENE	7.64	95	354864	41.4819895 ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 103.70%		
Target Compounds					Qvalue
3) PROPENE	1.76	41	1617	1.1200197 ppb #	76
4) DICHLORODIFLUOROMETHANE	1.82	85	3742	0.8418840 ppb #	80
5) CHLOROMETHANE	2.00	50	12184	0.4657609 ppb #	89
6) VINYL CHLORIDE	2.08	62	5650	0.8879420 ppb #	91
7) 1,3-BUTADIENE	2.09	39	3842	0.9387363 ppb	95
8) BROMOMETHANE	2.36	94	1580	1.1325956 ppb #	86
9) CHLOROETHANE	2.45	64	2486	Below Cal #	73
10) TRICHLOROFLUOROMETHANE	2.56	101	6025	1.0314768 ppb #	95
11) DICHLOROFLUORMETHANE	2.60	67	7840	0.9360417 ug/l	95
12) ETHYL ETHER	2.78	59	3511	0.8829076 ppb	97
13) ACROLEIN	3.15	56	3979	4.0831607 ppb	99
14) 1,1-DICHLOROETHENE	2.94	96	3647	0.8730114 ppb	93
15) 1,1,2-TRICHLOROTRIFLUOROET	2.95	101	3779	0.8973178 ppb #	88
16) ACETONE	3.33	43	14777	4.9891704 ppb	93
17) IODOMETHANE	3.06	142	13227	4.1111242 ppb	97
18) CARBON DISULFIDE	2.99	76	15270	0.9687898 ppb #	92
19) METHYLENE CHLORIDE	3.31	84	4270	0.9150379 ppb	96
20) ACRYLONITRILE	3.80	53	7768	4.2105732 ppb	97
21) n-HEXANE	3.45	56	4731	0.9211084 ppb #	96
22) TRANS-1,2-DICHLOROETHENE	3.41	96	4353	0.9077358 ppb	96
23) METHYL TERT-BUTYL ETHER	3.46	73	12024	0.8676794 ppb	99
24) 1,1-DICHLOROETHANE	3.78	63	8005	0.9264977 ppb	97
25) VINYL ACETATE	3.88	43	33600	4.5765235 ppb	99
26) DI-ISOPROPYL ETHER	3.66	45	13904	0.9091426 ppb	98
27) 2,2-DICHLOROPROPANE	4.16	77	6815	0.9094681 ppb	92
28) CIS-1,2-DICHLOROETHENE	4.09	96	4795	0.9480450 ppb	96
29) 2-BUTANONE (MEK)	4.39	43	14956	4.4163868 ppb	93
30) BROMOCHLOROMETHANE	4.21	130	2049	0.8614057 ppb #	74
31) TETRAHYDROFURAN	4.34	42	1666	0.8982280 ppb #	76
32) CHLOROFORM	4.23	83	7262	0.9544058 ppb #	96
34) 1,1,1-TRICHLOROETHANE	4.38	97	5708	0.8725083 ppb	98
35) CARBON TETRACHLORIDE	4.34	117	4896	0.8791724 ppb	92
36) 1,1-DICHLOROPROPENE	4.44	75	6014	0.9107735 ppb	97
37) 2,2,4-TRIMETHYLPENTANE	4.48	57	25276	0.9369599 ppb	98
38) HEPTANE	4.52	71	5156	0.8595808 ppb #	88

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 06A.D Vial: 6
Acq On : 11 Oct 2015 7:36 pm Operator: 591
Sample : RL VMS 1 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:06:47 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	BENZENE	4.58	78	18319	0.8944259	ppb	#	66
40)	1,2-DICHLOROETHANE	4.70	62	5220	0.8716219	ppb	#	83
42)	TRICHLOROETHENE	4.92	130	4531	0.9630620	ppb	#	66
43)	1,2-DICHLOROPROPANE	5.23	62	3284	0.9263038	ppb		94
44)	DIBROMOMETHANE	5.18	93	2097	0.8768970	ppb		94
45)	BROMODICHLOROMETHANE	5.25	83	5248	0.9029697	ppb	#	72
47)	2-CHLOROETHYL VINYL ETHER	5.56	63	10534	4.3119520	ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.63	75	6812	0.8906911	ppb	#	95
49)	4-METHYL-2-PENTANONE (MIBK	5.99	43	19294	4.1713039	ppb		100
51)	TOLUENE	5.79	91	20797	0.9719142	ppb		98
52)	TRANS-1,3-DICHLOROPROPENE	6.04	75	5481	0.8309383	ppb	#	95
54)	1,1,2-TRICHLOROETHANE	6.15	97	3675	0.9690178	ppb		96
55)	TETRACHLOROETHENE	6.05	164	3445	1.0344734	ppb		91
56)	1,3-DICHLOROPROPANE	6.34	76	6871	0.9544037	ppb		96
57)	2-HEXANONE	6.56	58	5464	2.2289289	ppb		86
58)	CHLORODIBROMOMETHANE	6.29	129	3469	0.9074688	ppb	#	94
59)	1,2-DIBROMOETHANE	6.46	107	3359	0.9230544	ppb		97
60)	CHLOROBENZENE	6.80	112	10980	0.9382481	ppb		100
61)	1,1,1,2-TETRACHLOROETHANE	6.83	133	3108	0.8562362	ppb	#	91
62)	ETHYLBENZENE	6.80	106	6451	0.9338431	ppb		96
63)	M&P-XYLENE	6.89	106	15499	1.7897939	ppb		83
64)	O-XYLENE	7.20	106	7286	0.8991926	ppb		91
65)	STYRENE	7.24	104	10961	0.8442260	ppb		98
66)	BROMOFORM	7.29	173	1959	0.8365677	ppb	#	68
67)	ISOPROPYLBENZENE	7.42	105	21048	0.9762534	ppb		97
69)	BROMOBENZENE	7.74	77	9105	0.9783117	ppb		97
70)	1,1,2,2-TETRACHLOROETHANE	7.76	83	4669	0.9103137	ppb	#	93
71)	1,2,3-TRICHLOROPROPANE	7.89	110	1304	0.8738334	ppb	#	90
72)	TRANS-1,4-DICHLORO-2-BUTEN	7.91	53	493	1.4551985	ppb	#	19
73)	N-PROPYLBENZENE	7.72	91	24677	0.9747227	ppb		96
74)	4-ETHYLTOLUENE	7.80	105	19476	0.9402660	ppb		99
75)	2-CHLOROTOLUENE	7.86	91	16849	1.0205019	ppb		96
76)	4-CHLOROTOLUENE	7.99	91	15167	1.0047387	ppb	#	95
77)	1,3,5-TRIMETHYLBENZENE	7.86	105	17859	0.9931758	ppb		96
78)	TERT-BUTYLBENZENE	8.11	119	14274	0.9812834	ppb		95
79)	1,2,4-TRIMETHYLBENZENE	8.15	105	15773	0.9555471	ppb		97
80)	SEC-BUTYLBENZENE	8.24	105	21719	0.9487192	ppb		98
81)	1,3-DICHLOROBENZENE	8.45	146	8334	0.9667514	ppb		99
82)	P-ISOPROPYLTOLUENE	8.34	119	16060	0.8595385	ppb		97
83)	DICYCLOPENTADIENE	8.36	66	19086	0.8821915	ppb		99
85)	1,4-DICHLOROBENZENE	8.51	146	9462	1.0576520	ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.50	105	15802	0.9358613	ppb		96
87)	1,2-DICHLOROBENZENE	8.85	146	7395	0.9111544	ppb		96
88)	N-BUTYLBENZENE	8.68	91	13089	0.7852491	ppb		94
89)	1,2-DIBROMO-3-CHLOROPROPAN	9.50	157	167	0.1657088	ppb	#	1
90)	1,2,4-TRICHLOROBENZENE	10.05	180	3489	0.7170118	ppb	#	95
91)	HEXACHLORO-1,3-BUTADIENE	10.00	225	2479	0.8992037	ppb	#	90
92)	NAPHTHALENE	10.33	128	11478	0.8269971	ppb	#	92
93)	1,2,3-TRICHLOROBENZENE	10.48	180	3960	0.8425406	ppb		96
94)	1-METHYLNAPHTHALENE	11.20	142	5695	0.8259789	ppb	#	91
95)	2-METHYLNAPHTHALENE	11.34	142	5493	0.8135850	ppb		96
100)	METHYL ACETATE	3.39	43	849	0.1972540	ppb	#	51
101)	ACETONITRILE	3.66	41	2143	2.7640790	ppb	#	39
104)	CHLOROPRENE	3.80	53	7768	0.8730930	ppb	#	22

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 06A.D Vial: 6
Acq On : 11 Oct 2015 7:36 pm Operator: 591
Sample : RL VMS 1 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:06:47 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

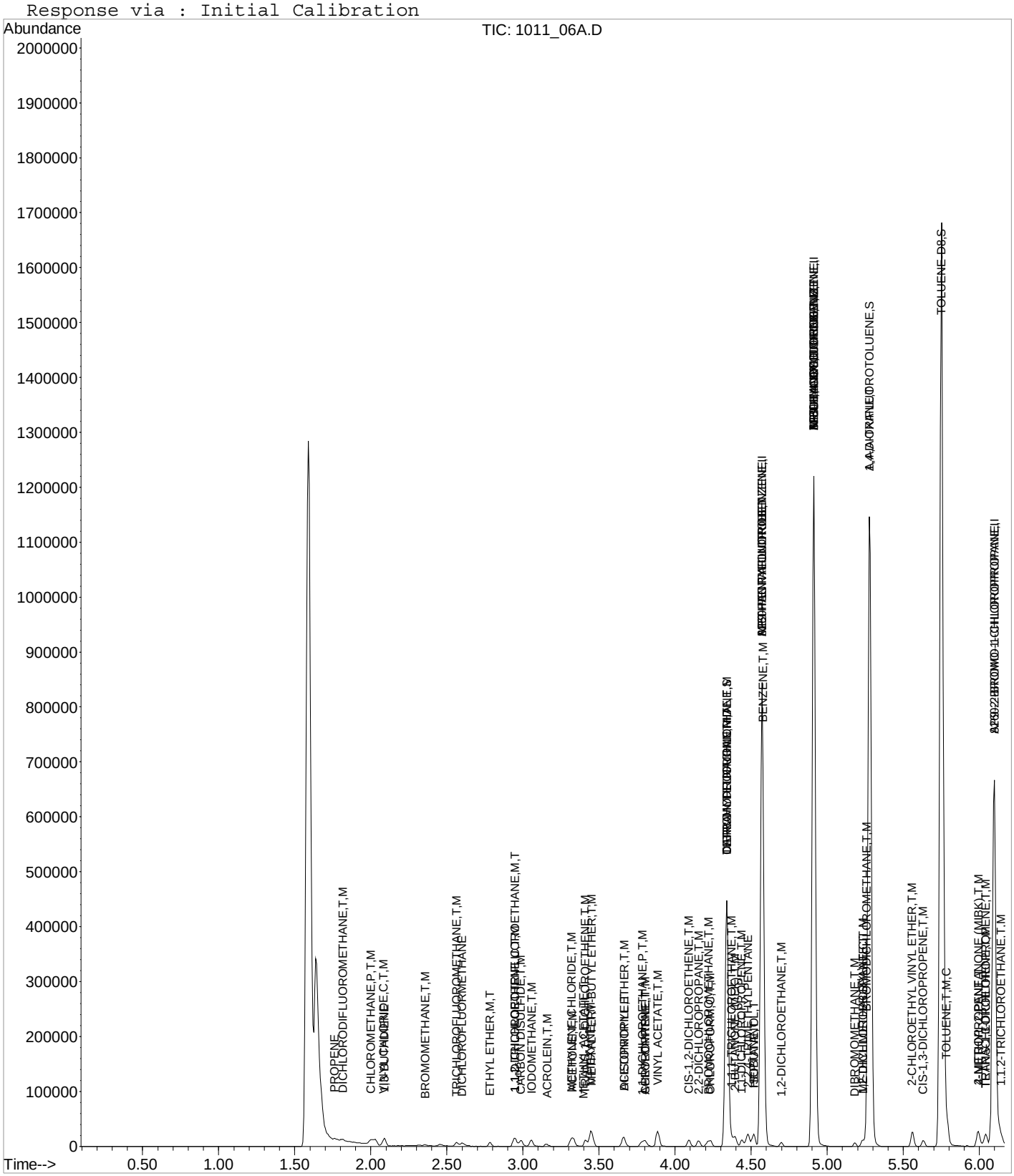
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
108)	METHACRYLONITRILE	4.57	67	929	0.3625346	ppb	#	1
111)	ISOBUTANOL	4.52	43	7990	19.0100345	ppb	#	67
115)	N-BUTANOL	4.91	56	14557	66.1606340	ppb	#	23
116)	METHYL CYCLOHEXANE	4.91	83	8314	0.5106151	ppb	#	43
117)	2-NITROPROPANE	5.99	43	19294	12.4880586	ppb	#	41
118)	METHYL METHACRYLATE	5.23	41	2180	0.4693451	ppb	#	12
119)	1,4-DIOXANE	5.28	88	4833	67.4919028	ppb	#	23
126)	PENTACHLOROETHANE	8.34	117	2946	1.2011042	ppb	#	14

(#) = qualifier out of range (m) = manual integration
1011_06A.D V808J11O.M Mon Oct 12 11:06:54 2015 1664 of 1797 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 06A.D Vial: 6
Acq On : 11 Oct 2015 7:36 pm Operator: 591
Sample : RL VMS 1 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:06 2015 Quant Results File: V808J11O.RES

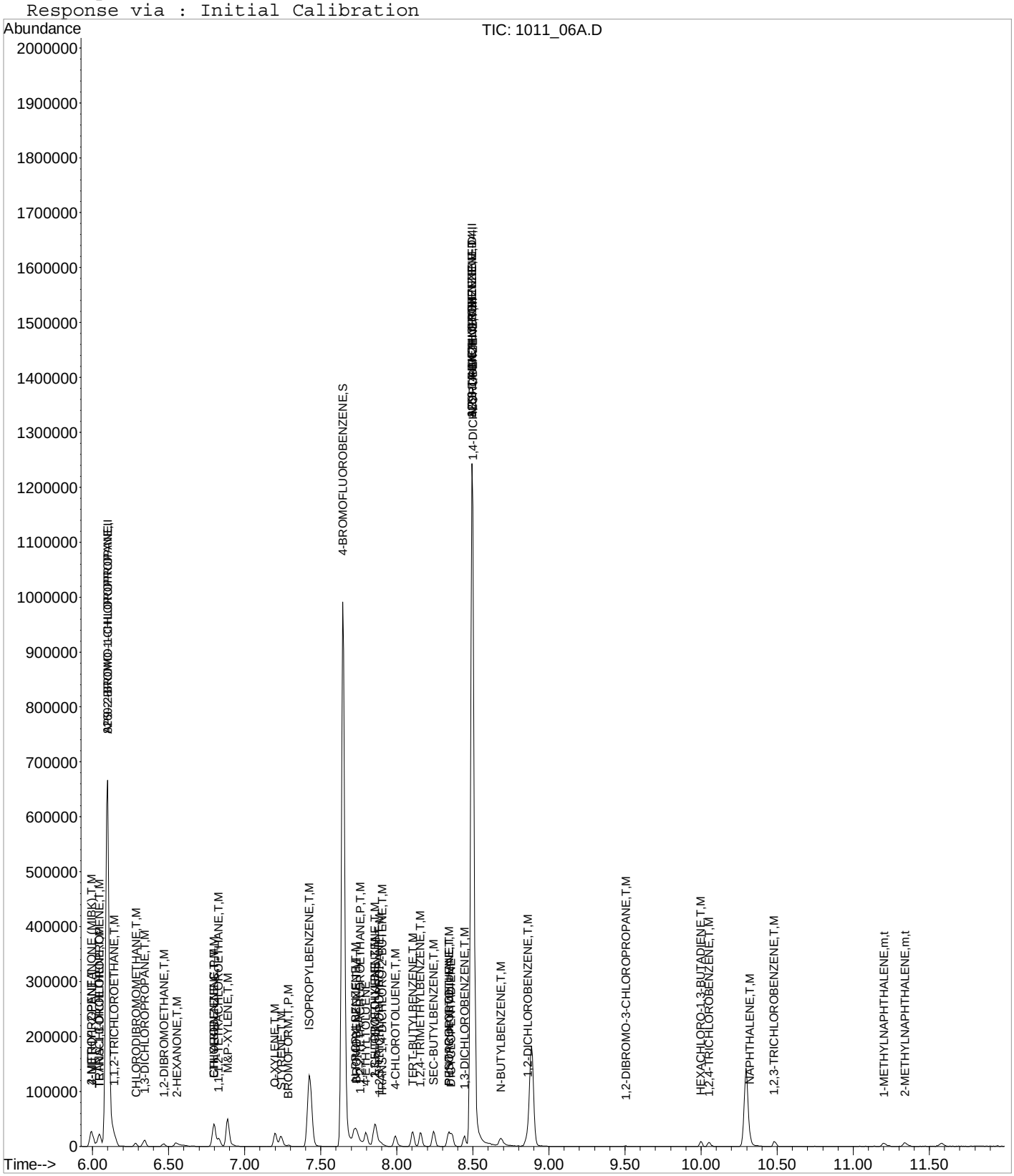
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_06A.D Vial: 6
Acq On : 11 Oct 2015 7:36 pm Operator: 591
Sample : RL VMS 1 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:06 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 07A.D Vial: 7
Acq On : 11 Oct 2015 8:01 pm Operator: 591
Sample : RL VMS 2 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:06:58 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	415138	40.00	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	767468	40.00	ppb		0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	126777	40.00	ppb		0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	312629	40.00	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	4.57	168	415455	40.00	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	767468	40.00	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.10	79	126777	40.00	ppb		0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	312629	40.00	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.34	111	230254	44.3897092	ppb		0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 110.97%				
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	427477	43.5229302	ppb		0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 108.81%				
50) TOLUENE-D8	5.75	98	998259	43.2984461	ppb		0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 108.25%				
68) 4-BROMOFLUOROBENZENE	7.64	95	361247	42.9529367	ppb		0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 107.38%				
Target Compounds							Qvalue
3) PROPENE	1.77	41	2737	2.0564183	ppb		93
4) DICHLORODIFLUOROMETHANE	1.81	85	8029	1.9594354	ppb		97
5) CHLOROMETHANE	2.00	50	21005	2.1339828	ppb		97
6) VINYL CHLORIDE	2.08	62	12219	2.0830171	ppb		96
7) 1,3-BUTADIENE	2.09	39	7949	2.1067829	ppb		97
8) BROMOMETHANE	2.36	94	2918	2.2689457	ppb	#	93
9) CHLOROETHANE	2.45	64	5355	0.0420002	ppb	#	86
10) TRICHLOROFLUOROMETHANE	2.56	101	12265	2.2776710	ppb		98
11) DICHLOROFLUORMETHANE	2.60	67	15946	2.0651515	ug/l		94
12) ETHYL ETHER	2.78	59	7158	1.9525275	ppb		96
13) ACROLEIN	3.15	56	9006	10.0247953	ppb		97
14) 1,1-DICHLOROETHENE	2.94	96	7567	1.9648479	ppb		96
15) 1,1,2-TRICHLOROTRIFLUOROET	2.95	101	7684	1.9791458	ppb	#	94
16) ACETONE	3.33	43	29867	10.9384227	ppb		96
17) IODOMETHANE	3.06	142	28074	7.3793944	ppb		97
18) CARBON DISULFIDE	2.99	76	28756	1.9789737	ppb		97
19) METHYLENE CHLORIDE	3.31	84	8927	2.0750940	ppb		95
20) ACRYLONITRILE	3.81	53	16543	9.7267399	ppb		97
21) n-HEXANE	3.44	56	9642	2.0363197	ppb		98
22) TRANS-1,2-DICHLOROETHENE	3.42	96	8828	1.9968900	ppb		97
23) METHYL TERT-BUTYL ETHER	3.45	73	25835	2.0222731	ppb		99
24) 1,1-DICHLOROETHANE	3.78	63	15594	1.9577696	ppb		98
25) VINYL ACETATE	3.88	43	68712	10.1519633	ppb		99
26) DI-ISOPROPYL ETHER	3.66	45	27966	1.9835523	ppb		100
27) 2,2-DICHLOROPROPANE	4.15	77	13801	1.9978054	ppb		94
28) CIS-1,2-DICHLOROETHENE	4.09	96	9435	2.0235003	ppb		96
29) 2-BUTANONE (MEK)	4.40	43	32801	10.5065411	ppb		99
30) BROMOCHLOROMETHANE	4.21	130	4776	2.1779662	ppb		99
31) TETRAHYDROFURAN	4.34	42	3379	1.9761541	ppb	#	85
32) CHLOROFORM	4.23	83	15113	2.1545102	ppb		98
34) 1,1,1-TRICHLOROETHANE	4.38	97	11725	1.9441040	ppb		97
35) CARBON TETRACHLORIDE	4.35	117	9923	1.9328434	ppb		98
36) 1,1-DICHLOROPROPENE	4.44	75	12509	2.0548996	ppb		98
37) 2,2,4-TRIMETHYLPENTANE	4.48	57	50676	2.0376802	ppb		98
38) HEPTANE	4.52	71	10659	1.9275750	ppb	#	83

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 07A.D Vial: 7
Acq On : 11 Oct 2015 8:01 pm Operator: 591
Sample : RL VMS 2 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SUR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:06:58 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
39)	BENZENE	4.59	78	39227	2.0775368 ppb	#	87
40)	1,2-DICHLOROETHANE	4.70	62	11233	2.0345784 ppb		95
42)	TRICHLOROETHENE	4.92	130	9109	2.0047219 ppb	#	66
43)	1,2-DICHLOROPROPANE	5.24	62	6931	2.0242748 ppb		97
44)	DIBROMOMETHANE	5.18	93	4336	1.8774254 ppb		92
45)	BROMODICHLOROMETHANE	5.25	83	11229	2.0005236 ppb	#	86
47)	2-CHLOROETHYL VINYL ETHER	5.56	63	22305	9.4537931 ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.64	75	15060	2.0389224 ppb	#	97
49)	4-METHYL-2-PENTANONE (MIBK	6.00	43	42314	9.4723317 ppb		99
51)	TOLUENE	5.79	91	42360	2.0497762 ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	6.04	75	11856	1.8611030 ppb	#	97
54)	1,1,2-TRICHLOROETHANE	6.15	97	7469	2.0032163 ppb		97
55)	TETRACHLOROETHENE	6.05	164	6682	2.0409274 ppb		96
56)	1,3-DICHLOROPROPANE	6.34	76	14789	2.0894979 ppb		99
57)	2-HEXANONE	6.54	58	17096	7.0936706 ppb		99
58)	CHLORODIBROMOMETHANE	6.28	129	7357	1.9575784 ppb		97
59)	1,2-DIBROMOETHANE	6.46	107	6991	1.9541035 ppb		98
60)	CHLOROBENZENE	6.80	112	23215	2.0177855 ppb		97
61)	1,1,1,2-TETRACHLOROETHANE	6.83	133	6631	1.8581579 ppb	#	91
62)	ETHYLBENZENE	6.79	106	13463	1.9823471 ppb		91
63)	M&P-XYLENE	6.89	106	32584	3.8273195 ppb		89
64)	O-XYLENE	7.20	106	15096	1.8950315 ppb		95
65)	STYRENE	7.24	104	24215	1.8970729 ppb		98
66)	BROMOFORM	7.29	173	4348	1.8886312 ppb		93
67)	ISOPROPYLBENZENE	7.42	105	43669	2.0602311 ppb		99
69)	BROMOBENZENE	7.74	77	19575	2.1393904 ppb		97
70)	1,1,2,2-TETRACHLOROETHANE	7.77	83	9940	1.9712629 ppb	#	98
71)	1,2,3-TRICHLOROPROPANE	7.89	110	2636	1.7967490 ppb		93
72)	TRANS-1,4-DICHLORO-2-BUTEN	7.91	53	1708	2.1940427 ppb	#	52
73)	N-PROPYLBENZENE	7.72	91	50510	2.0293504 ppb		98
74)	4-ETHYLTOLUENE	7.80	105	41131	2.0198133 ppb		98
75)	2-CHLOROTOLUENE	7.86	91	32066	1.9754928 ppb		98
76)	4-CHLOROTOLUENE	7.99	91	30391	2.0478088 ppb		95
77)	1,3,5-TRIMETHYLBENZENE	7.85	105	34506	1.9518867 ppb		98
78)	TERT-BUTYLBENZENE	8.11	119	29974	2.0959670 ppb		96
79)	1,2,4-TRIMETHYLBENZENE	8.16	105	31925	1.9672507 ppb		98
80)	SEC-BUTYLBENZENE	8.24	105	46695	2.0747188 ppb		100
81)	1,3-DICHLOROBENZENE	8.45	146	17651	2.0826755 ppb		92
82)	P-ISOPROPYLTOLUENE	8.34	119	33886	1.8447227 ppb		98
83)	DICYCLOPENTADIENE	8.36	66	42061	1.9775093 ppb		98
85)	1,4-DICHLOROBENZENE	8.51	146	18010	2.0138142 ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.50	105	33906	2.0087313 ppb		100
87)	1,2-DICHLOROBENZENE	8.85	146	15896	1.9592394 ppb		97
88)	N-BUTYLBENZENE	8.68	91	30908	1.8548881 ppb		95
89)	1,2-DIBROMO-3-CHLOROPROPAN	9.49	157	1296	1.2864117 ppb	#	91
90)	1,2,4-TRICHLOROBENZENE	10.05	180	8771	1.8031019 ppb		97
91)	HEXACHLORO-1,3-BUTADIENE	10.00	225	5437	1.9728167 ppb		96
92)	NAPHTHALENE	10.33	128	25467	1.8355295 ppb	#	94
93)	1,2,3-TRICHLOROBENZENE	10.48	180	8313	1.7692911 ppb		95
94)	1-METHYLNAPHTHALENE	11.20	142	12188	1.7682901 ppb		97
95)	2-METHYLNAPHTHALENE	11.34	142	13019	1.9289314 ppb		94
100)	METHYL ACETATE	3.39	43	1280	0.3225902 ppb	#	51
101)	ACETONITRILE	3.66	41	4471	6.2554139 ppb	#	30
104)	CHLOROPRENE	3.81	53	16543	2.0169198 ppb	#	22

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 07A.D Vial: 7
Acq On : 11 Oct 2015 8:01 pm Operator: 591
Sample : RL VMS 2 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:06:58 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

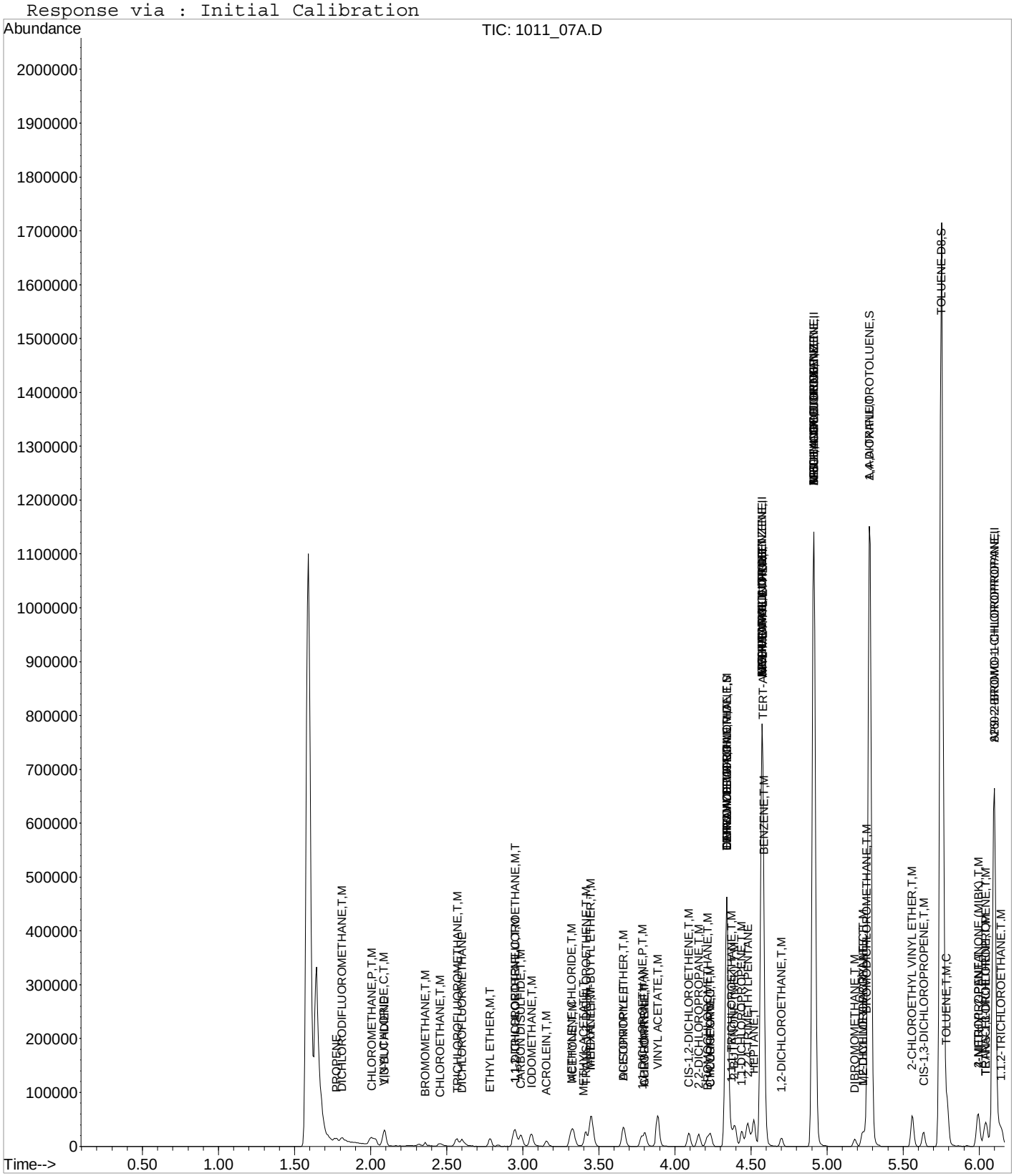
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
107)	ETHYL ACETATE	4.34	43	593	0.1140665	ppb	#	66
108)	METHACRYLONITRILE	4.57	67	1035	0.4381242	ppb	#	1
109)	CYCLOHEXANE	4.24	84	163	0.0127823	ppb	#	2
111)	ISOBUTANOL	4.57	43	354	0.9136134	ppb	#	1
113)	TERT-AMYL METHYL ETHER	4.58	73	759	0.0454569	ppb	#	1
115)	N-BUTANOL	4.91	56	14363	67.5921405	ppb	#	23
116)	METHYL CYCLOHEXANE	4.91	83	8895	0.5656566	ppb	#	40
117)	2-NITROPROPANE	6.00	43	42670	28.5968739	ppb	#	41
118)	METHYL METHACRYLATE	5.23	41	4651	1.0368249	ppb	#	12
119)	1,4-DIOXANE	5.28	88	5007	72.3995274	ppb	#	23
126)	PENTACHLOROETHANE	8.16	117	843	0.3495960	ppb	#	14

(#) = qualifier out of range (m) = manual integration
1011_07A.D V808J11O.M Mon Oct 12 11:07:03 2015 1669 of 1797 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 07A.D Vial: 7
Acq On : 11 Oct 2015 8:01 pm Operator: 591
Sample : RL VMS 2 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:06 2015 Quant Results File: V808J11O.RES

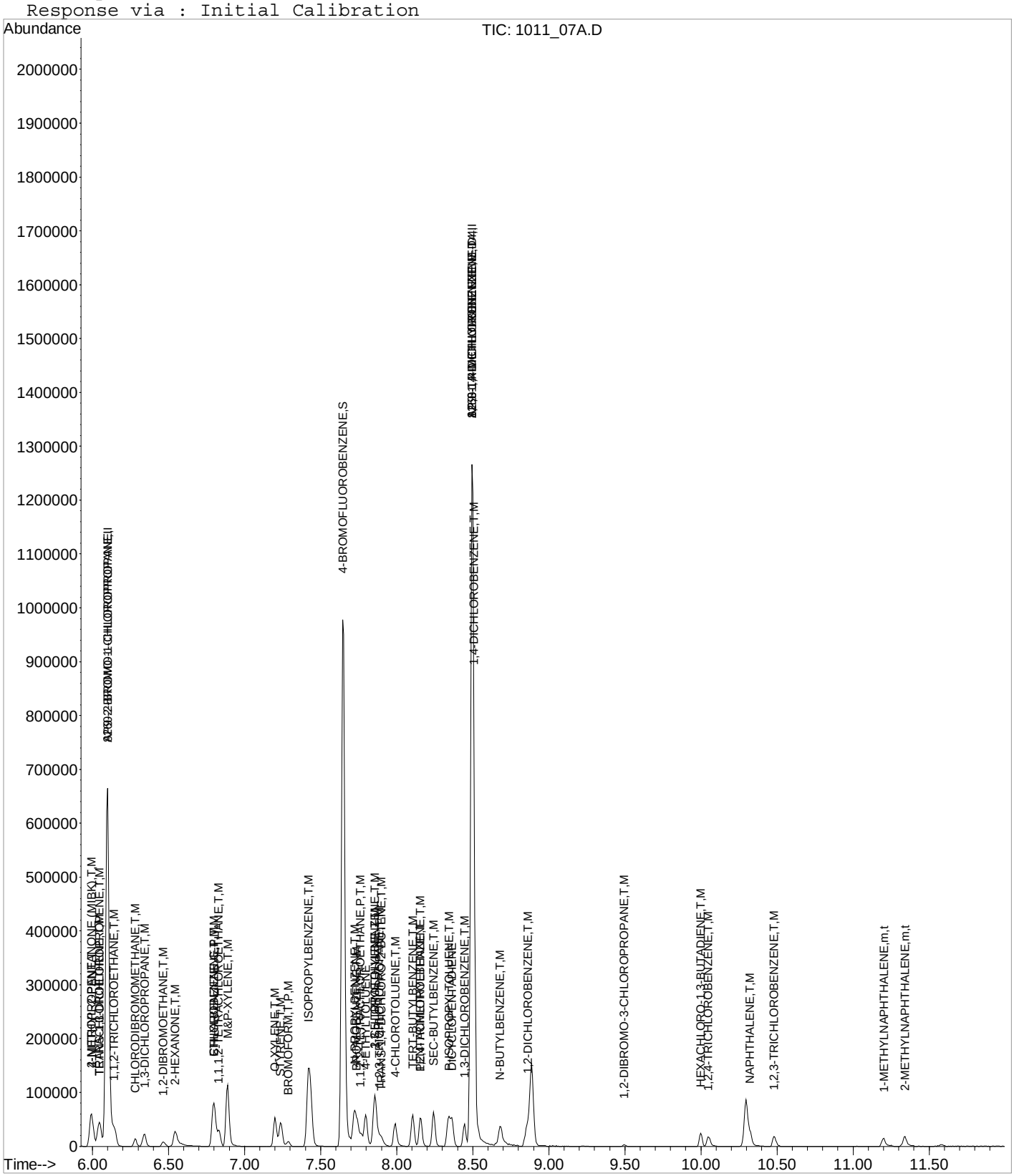
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_07A.D Vial: 7
Acq On : 11 Oct 2015 8:01 pm Operator: 591
Sample : RL VMS 2 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:06 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 08A.D Vial: 8
Acq On : 11 Oct 2015 8:25 pm Operator: 591
Sample : RL VMS 5.0 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:07:08 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	430613	40.00 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	793457	40.00 ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.09	79	120505	40.00 ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	308859	40.00 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.57	168	430986	40.00 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	793457	40.00 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.09	79	120505	40.00 ppb	0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	308859	40.00 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.34	111	221616	41.1890315 ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 102.97%		
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	441192	43.4480093 ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 108.62%		
50) TOLUENE-D8	5.75	98	979100	41.0764598 ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 102.69%		
68) 4-BROMOFLUOROBENZENE	7.65	95	357279	44.6921766 ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 111.73%		
Target Compounds					Qvalue
3) PROPENE	1.76	41	6053	4.3844255 ppb	96
4) DICHLORODIFLUOROMETHANE	1.81	85	22183	5.2190940 ppb	96
5) CHLOROMETHANE	2.00	50	45975	6.1143840 ppb	98
6) VINYL CHLORIDE	2.08	62	30359	4.9894191 ppb	97
7) 1,3-BUTADIENE	2.09	39	20655	5.2776166 ppb	97
8) BROMOMETHANE	2.35	94	6305	4.7263868 ppb	99
9) CHLOROETHANE	2.45	64	15632	5.1408508 ppb	96
10) TRICHLOROFLUOROMETHANE	2.57	101	31485	5.6367983 ppb	98
11) DICHLOROFLUORMETHANE	2.60	67	41603	5.1943374 ug/l	97
12) ETHYL ETHER	2.78	59	18718	4.9223248 ppb	98
13) ACROLEIN	3.16	56	21392	22.9562165 ppb	99
14) 1,1-DICHLOROETHENE	2.94	96	19162	4.7967975 ppb	98
15) 1,1,2-TRICHLOROTRIFLUOROET	2.96	101	20693	5.1382976 ppb	97
16) ACETONE	3.33	43	70919	25.0398114 ppb	98
17) IODOMETHANE	3.05	142	80614	17.5963300 ppb	97
18) CARBON DISULFIDE	2.99	76	71574	4.7486721 ppb	97
19) METHYLENE CHLORIDE	3.31	84	22311	4.9998460 ppb	94
20) ACRYLONITRILE	3.80	53	43715	24.7792905 ppb	97
21) n-HEXANE	3.45	56	24166	4.9202704 ppb	96
22) TRANS-1,2-DICHLOROETHENE	3.41	96	22131	4.8261209 ppb	97
23) METHYL TERT-BUTYL ETHER	3.45	73	63391	4.7837038 ppb	97
24) 1,1-DICHLOROETHANE	3.78	63	38988	4.7188955 ppb	97
25) VINYL ACETATE	3.89	43	166848	23.7653276 ppb	98
26) DI-ISOPROPYL ETHER	3.66	45	69992	4.7859378 ppb	95
27) 2,2-DICHLOROPROPANE	4.15	77	34500	4.8146761 ppb	98
28) CIS-1,2-DICHLOROETHENE	4.09	96	23565	4.8723016 ppb	96
29) 2-BUTANONE (MEK)	4.40	43	78608	24.2741919 ppb	96
30) BROMOCHLOROMETHANE	4.21	130	12398	5.4505937 ppb	91
31) TETRAHYDROFURAN	4.34	42	8254	4.6537433 ppb	98
32) CHLOROFORM	4.23	83	36393	5.0017396 ppb	97
34) 1,1,1-TRICHLOROETHANE	4.37	97	30411	4.8611912 ppb	99
35) CARBON TETRACHLORIDE	4.34	117	26503	4.9768445 ppb	99
36) 1,1-DICHLOROPROPENE	4.44	75	30127	4.7712178 ppb	98
37) 2,2,4-TRIMETHYLPENTANE	4.48	57	127812	4.9546237 ppb	97
38) HEPTANE	4.52	71	27775	4.8423284 ppb #	89

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 08A.D Vial: 8
Acq On : 11 Oct 2015 8:25 pm Operator: 591
Sample : RL VMS 5.0 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:07:08 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	BENZENE	4.59	78	97576	4.9820948	ppb		97
40)	1,2-DICHLOROETHANE	4.70	62	26941	4.7043296	ppb		100
42)	TRICHLOROETHENE	4.91	130	23362	4.9731361	ppb	#	66
43)	1,2-DICHLOROPROPANE	5.23	62	17204	4.8600404	ppb		97
44)	DIBROMOMETHANE	5.18	93	11727	4.9113087	ppb		99
45)	BROMODICHLOROMETHANE	5.25	83	27345	4.7121316	ppb		92
47)	2-CHLOROETHYL VINYL ETHER	5.56	63	57098	23.4078563	ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.63	75	36370	4.7627294	ppb		99
49)	4-METHYL-2-PENTANONE (MIBK	5.99	43	110002	23.8182735	ppb		98
51)	TOLUENE	5.78	91	99749	4.6686996	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	6.03	75	30749	4.6687445	ppb		98
54)	1,1,2-TRICHLOROETHANE	6.15	97	18132	5.1161880	ppb		99
55)	TETRACHLOROETHENE	6.05	164	16819	5.4045142	ppb		98
56)	1,3-DICHLOROPROPANE	6.34	76	34424	5.1168168	ppb		100
57)	2-HEXANONE	6.54	58	51881	22.6474990	ppb		99
58)	CHLORODIBROMOMETHANE	6.28	129	17619	4.9321362	ppb		98
59)	1,2-DIBROMOETHANE	6.47	107	17365	5.1064425	ppb		95
60)	CHLOROBENZENE	6.81	112	60452	5.5278009	ppb		98
61)	1,1,1,2-TETRACHLOROETHANE	6.84	133	18219	5.3711035	ppb	#	100
62)	ETHYLBENZENE	6.79	106	34457	5.3376577	ppb		99
63)	M&P-XYLENE	6.89	106	86540	10.6940600	ppb		99
64)	O-XYLENE	7.20	106	39901	5.2695525	ppb		95
65)	STYRENE	7.24	104	61945	5.1055343	ppb		98
66)	BROMOFORM	7.29	173	10262	4.6894839	ppb		97
67)	ISOPROPYLBENZENE	7.41	105	107968	5.3588692	ppb		98
69)	BROMOBENZENE	7.74	77	46416	5.3369284	ppb		98
70)	1,1,2,2-TETRACHLOROETHANE	7.77	83	24690	5.1512741	ppb		98
71)	1,2,3-TRICHLOROPROPANE	7.89	110	7026	5.0383179	ppb		94
72)	TRANS-1,4-DICHLORO-2-BUTEN	7.91	53	6174	5.0854386	ppb	#	65
73)	N-PROPYLBENZENE	7.72	91	122149	5.1630342	ppb		99
74)	4-ETHYLTOLUENE	7.80	105	102408	5.2906769	ppb		98
75)	2-CHLOROTOLUENE	7.86	91	81566	5.2865851	ppb		99
76)	4-CHLOROTOLUENE	7.99	91	73738	5.2272247	ppb		98
77)	1,3,5-TRIMETHYLBENZENE	7.85	105	85930	5.1137583	ppb		98
78)	TERT-BUTYLBENZENE	8.11	119	73161	5.3821372	ppb		97
79)	1,2,4-TRIMETHYLBENZENE	8.16	105	79895	5.1794519	ppb		100
80)	SEC-BUTYLBENZENE	8.24	105	114997	5.3753999	ppb		97
81)	1,3-DICHLOROBENZENE	8.44	146	45153	5.6049831	ppb		97
82)	P-ISOPROPYLTOLUENE	8.34	119	90535	5.1851662	ppb		98
83)	DICYCLOPENTADIENE	8.36	66	100991	4.9952477	ppb		97
85)	1,4-DICHLOROBENZENE	8.51	146	46377	5.2490094	ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.50	105	85439	5.1235436	ppb		99
87)	1,2-DICHLOROBENZENE	8.85	146	39916	4.9798431	ppb		100
88)	N-BUTYLBENZENE	8.67	91	77910	4.7327004	ppb		98
89)	1,2-DIBROMO-3-CHLOROPROPAN	9.49	157	3919	3.9374881	ppb		94
90)	1,2,4-TRICHLOROBENZENE	10.05	180	21817	4.5397840	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	10.00	225	13753	5.0511918	ppb		95
92)	NAPHTHALENE	10.32	128	61718	4.5026110	ppb		96
93)	1,2,3-TRICHLOROBENZENE	10.48	180	23162	4.9898394	ppb		96
94)	1-METHYLNAPHTHALENE	11.19	142	31760	4.6641291	ppb		99
95)	2-METHYLNAPHTHALENE	11.34	142	34834	5.2241002	ppb		97
100)	METHYL ACETATE	3.39	43	2935	0.7130338	ppb	#	90
101)	ACETONITRILE	3.66	41	12080	16.2921779	ppb	#	39
104)	CHLOROPRENE	3.80	53	43715	5.1376637	ppb	#	22

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 08A.D Vial: 8
Acq On : 11 Oct 2015 8:25 pm Operator: 591
Sample : RL VMS 5.0 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:07:08 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

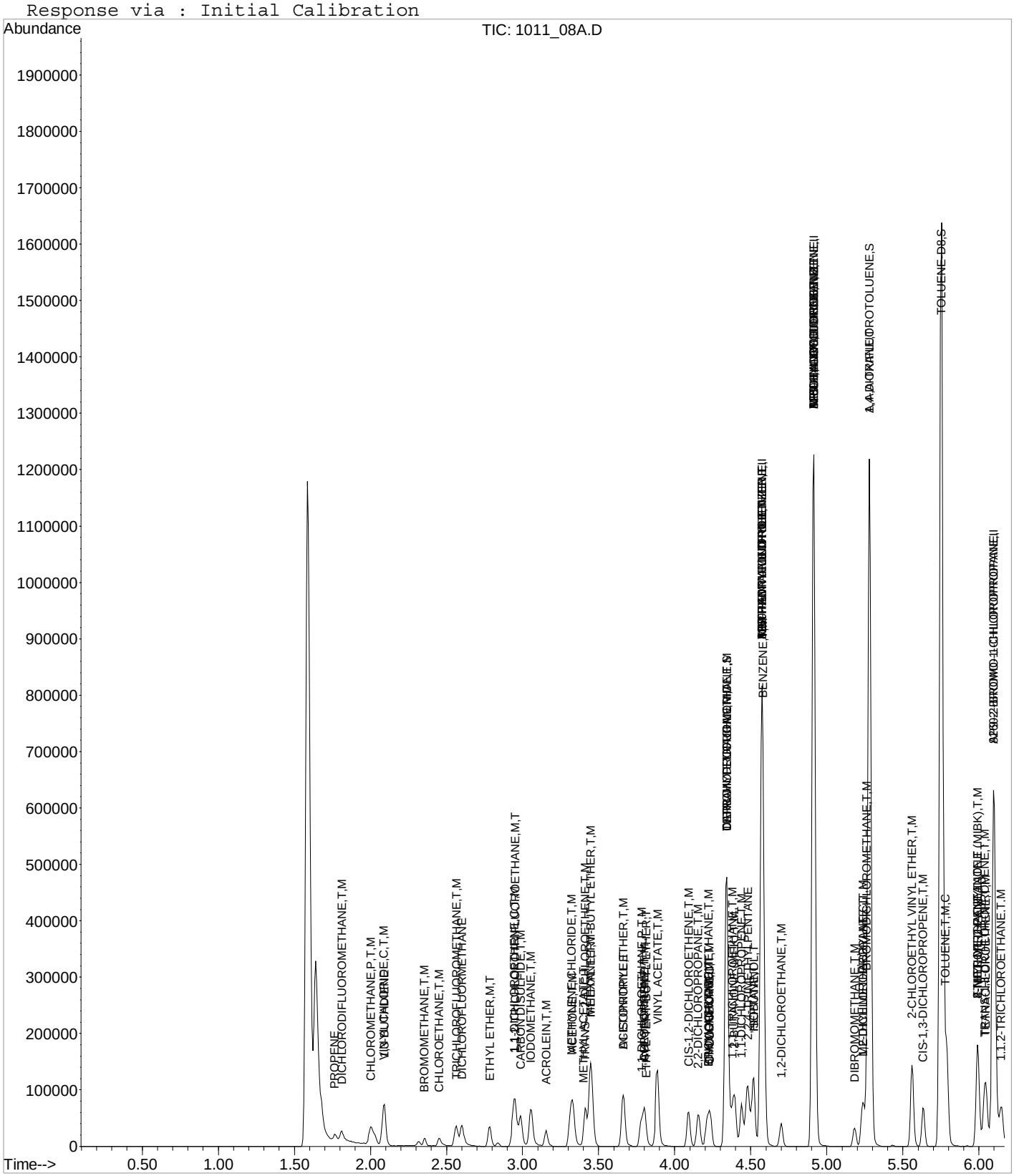
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
105)	ETHYL TERT-BUTYL ETHER	3.82	59	150	0.0102974	ppb	#	38
107)	ETHYL ACETATE	4.21	43	1030	0.1909859	ppb	#	66
108)	METHACRYLONITRILE	4.57	67	1020	0.4162151	ppb	#	1
109)	CYCLOHEXANE	4.23	84	1257	0.0950208	ppb	#	21
111)	ISOBUTANOL	4.51	43	42506	105.7475428	ppb	#	67
113)	TERT-AMYL METHYL ETHER	4.58	73	1653	0.0954314	ppb	#	1
115)	N-BUTANOL	4.91	56	13889	63.2206414	ppb	#	23
116)	METHYL CYCLOHEXANE	4.91	83	9210	0.5665045	ppb	#	42
117)	2-NITROPROPANE	5.99	43	110740	71.7855971	ppb	#	42
118)	METHYL METHACRYLATE	5.23	41	12136	2.6168059	ppb	#	12
119)	1,4-DIOXANE	5.28	88	4921	68.8253432	ppb	#	23
123)	ETHYL METHACRYLATE	5.99	69	633	0.1219350	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.79	53	1043	0.7287360	ppb	#	2
126)	PENTACHLOROETHANE	8.15	117	2420	1.0558196	ppb	#	14
127)	HEXACHLOROETHANE	8.68	117	388	0.1246950	ppb	#	58

(#) = qualifier out of range (m) = manual integration
1011_08A.D V808J11O.M Mon Oct 12 11:07:13 2015 1674 of 1797 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 08A.D Vial: 8
Acq On : 11 Oct 2015 8:25 pm Operator: 591
Sample : RL VMS 5.0 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:07 2015 Quant Results File: V808J11O.RES

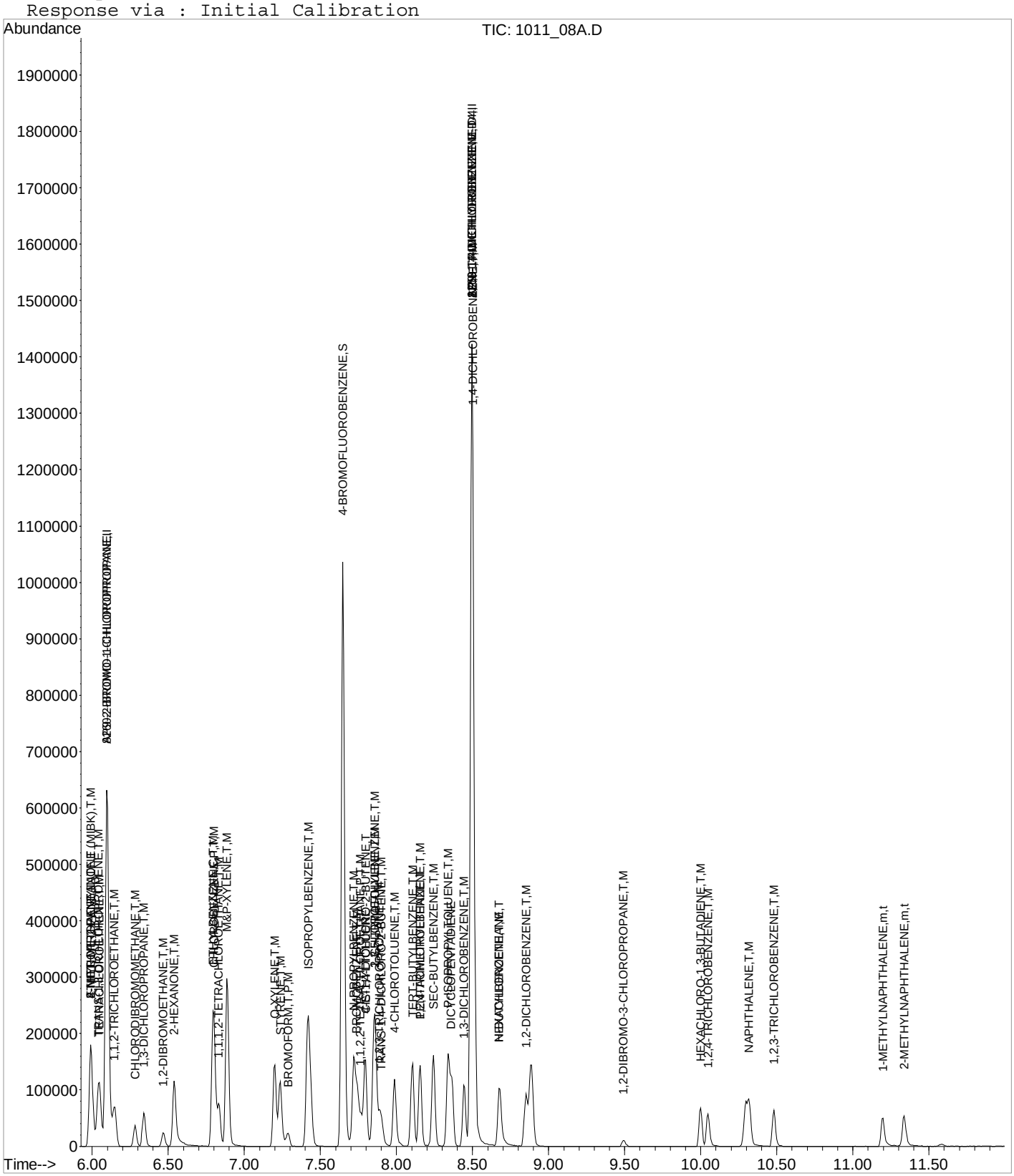
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_08A.D Vial: 8
Acq On : 11 Oct 2015 8:25 pm Operator: 591
Sample : RL VMS 5.0 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:07 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 19A.D Vial: 19
Acq On : 12 Oct 2015 12:50 am Operator: 591
Sample : RL VMS 1a ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:07:21 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	364819	40.00 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	700029	40.00 ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	109379	40.00 ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	261771	40.00 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.57	168	364819	40.00 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	700029	40.00 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.10	79	109379	40.00 ppb	0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	261771	40.00 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.34	111	183298	40.2112786 ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 100.53%		
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	356349	39.7763714 ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 99.44%		
50) TOLUENE-D8	5.75	98	852472	40.5371716 ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 101.34%		
68) 4-BROMOFLUOROBENZENE	7.65	95	301656	41.5725920 ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 103.93%		
Target Compounds					Qvalue
5) CHLOROMETHANE	2.00	50	155	Below Cal #	49
16) ACETONE	3.34	43	1114	0.4642622 ppb #	39
17) IODOMETHANE	3.06	142	1646	1.9870166 ppb #	71
18) CARBON DISULFIDE	2.99	76	937	0.0733781 ppb #	83
19) METHYLENE CHLORIDE	3.31	84	6768	1.7902251 ppb	97
20) ACRYLONITRILE	3.76	53	33496	22.4109889 ppb #	51
25) VINYL ACETATE	3.88	43	1391	0.2338620 ppb #	72
29) 2-BUTANONE (MEK)	4.48	43	5258	1.9164977 ppb #	44
31) TETRAHYDROFURAN	4.26	42	2855	1.9000007 ppb #	35
32) CHLOROFORM	4.23	83	190	0.0308224 ppb #	26
37) 2,2,4-TRIMETHYLPENTANE	4.48	57	27739	1.2692277 ppb #	1
38) HEPTANE	4.61	71	1276	0.2625793 ppb #	1
39) BENZENE	4.58	78	154	0.0092811 ppb #	1
40) 1,2-DICHLOROETHANE	4.60	62	4244	0.8747201 ppb #	75
43) 1,2-DICHLOROPROPANE	5.28	62	6781	2.1712586 ppb #	54
49) 4-METHYL-2-PENTANONE (MIBK	5.93	43	5709	1.4011257 ppb #	33
51) TOLUENE	5.78	91	1041	0.0552262 ppb #	64
52) TRANS-1,3-DICHLOROPROPENE	6.10	75	4507	0.7756468 ppb #	1
55) TETRACHLOROETHENE	6.06	164	1021	0.3614543 ppb #	85
69) BROMOBENZENE	7.64	77	1297	0.1642989 ppb #	29
73) N-PROPYLBENZENE	7.67	91	515	0.0239824 ppb #	60
78) TERT-BUTYLBENZENE	8.15	119	9861	0.7992216 ppb #	33
82) P-ISOPROPYLTOLUENE	8.15	119	9861	0.6222118 ppb #	58
83) DICYCLOPENTADIENE	8.50	66	4557	0.2483273 ppb #	70
88) N-BUTYLBENZENE	8.50	91	166	0.0118977 ppb #	32
95) 2-METHYLNAPHTHALENE	11.35	142	359	0.0635245 ppb #	82
97) ETHANOL	2.87	45	5532	85.7021725 ppb #	77
98) BROMOETHANE	3.12	108	2928	0.8972817 ppb	96
99) 2-PROPANOL	3.23	45	1456	4.0320207 ppb #	58
100) METHYL ACETATE	3.39	43	67254	19.3021567 ppb #	96
101) ACETONITRILE	3.62	41	29057	46.2965573 ppb	99
102) ALLYL CHLORIDE	3.24	76	10629	4.7123330 ppb	93
103) TERT-BUTYL ALCOHOL	3.48	59	3941	4.8606417 ppb #	77
104) CHLOROPRENE	3.76	53	33496	4.6506521 ppb	100
105) ETHYL TERT-BUTYL ETHER	3.88	59	12766	1.0353238 ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 19A.D Vial: 19
Acq On : 12 Oct 2015 12:50 am Operator: 591
Sample : RL VMS 1a ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:07:21 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

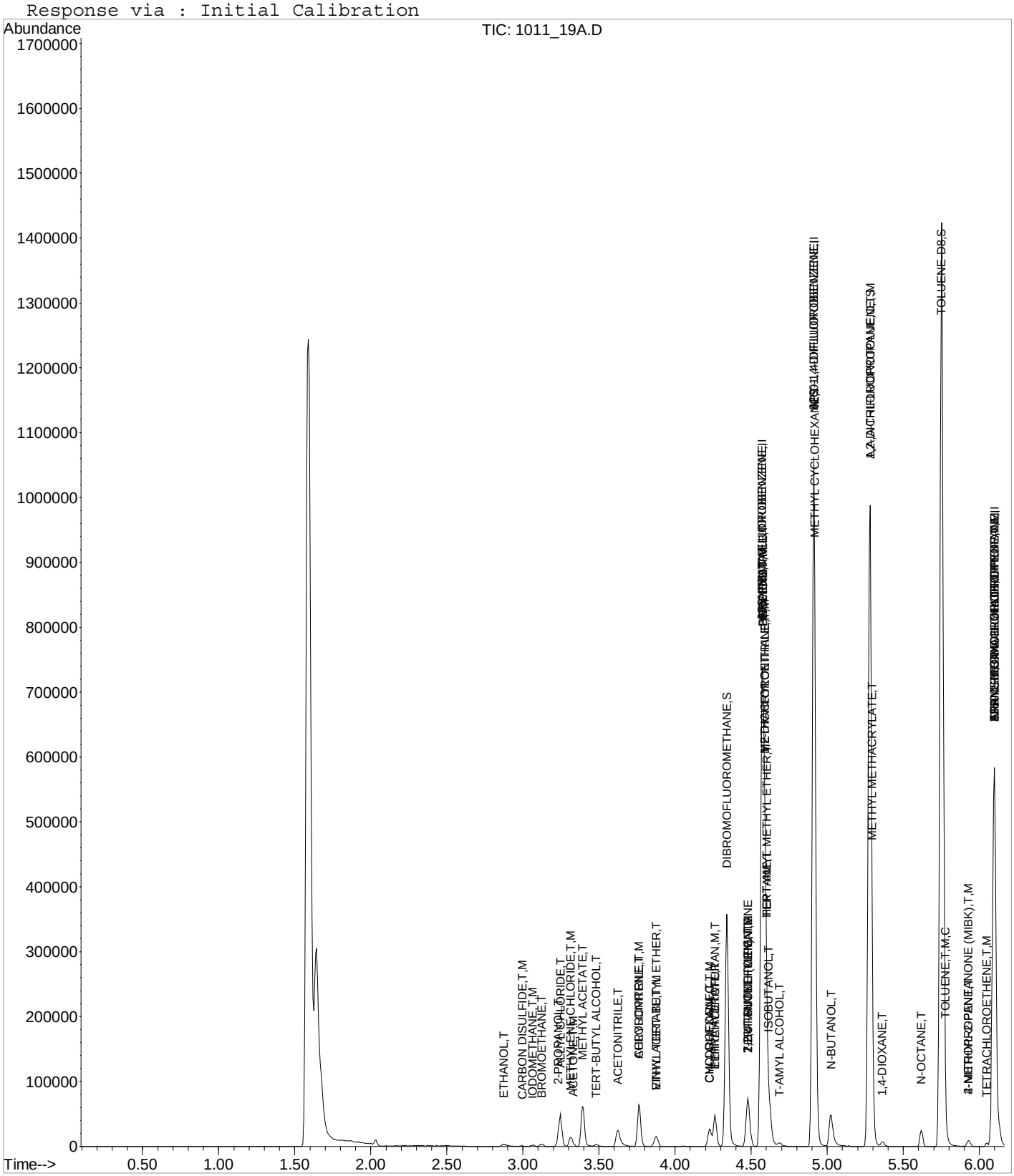
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
106)	PROPIONITRILE	4.58	54	38098	48.1698689	ppb	#	79
107)	ETHYL ACETATE	4.26	43	45553	9.9785350	ppb		98
108)	METHACRYLONITRILE	4.60	67	103097	49.6992055	ppb		96
109)	CYCLOHEXANE	4.23	84	10938	0.9768035	ppb		97
110)	TERT-BUTYL FORMATE	4.48	59	33905	9.7505284	ppb		96
111)	ISOBUTANOL	4.62	43	32926	96.7708900	ppb	#	93
112)	T-AMYL ALCOHOL	4.69	59	2639	4.7967290	ppb		95
113)	TERT-AMYL METHYL ETHER	4.61	73	14888	1.0154080	ppb	#	97
115)	N-BUTANOL	5.02	56	32292	166.6058427	ppb		97
116)	METHYL CYCLOHEXANE	4.92	83	19290	1.3448795	ppb	#	81
117)	2-NITROPROPANE	5.93	43	5709	4.1946932	ppb		91
118)	METHYL METHACRYLATE	5.30	41	19829	4.8462312	ppb	#	1
119)	1,4-DIOXANE	5.36	88	5484	86.9360354	ppb	#	95
120)	N-OCTANE	5.62	85	4780	0.8800929	ppb		97
123)	ETHYL METHACRYLATE	6.09	69	20009	4.2464041	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.67	53	5315	4.0912902	ppb	#	1
126)	PENTACHLOROETHANE	8.15	117	10526	5.0595143	ppb	#	93
127)	HEXACHLOROETHANE	8.83	117	2583	0.9145611	ppb	#	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 19A.D Vial: 19
Acq On : 12 Oct 2015 12:50 am Operator: 591
Sample : RL VMS 1a ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:07 2015 Quant Results File: V808J11O.RES

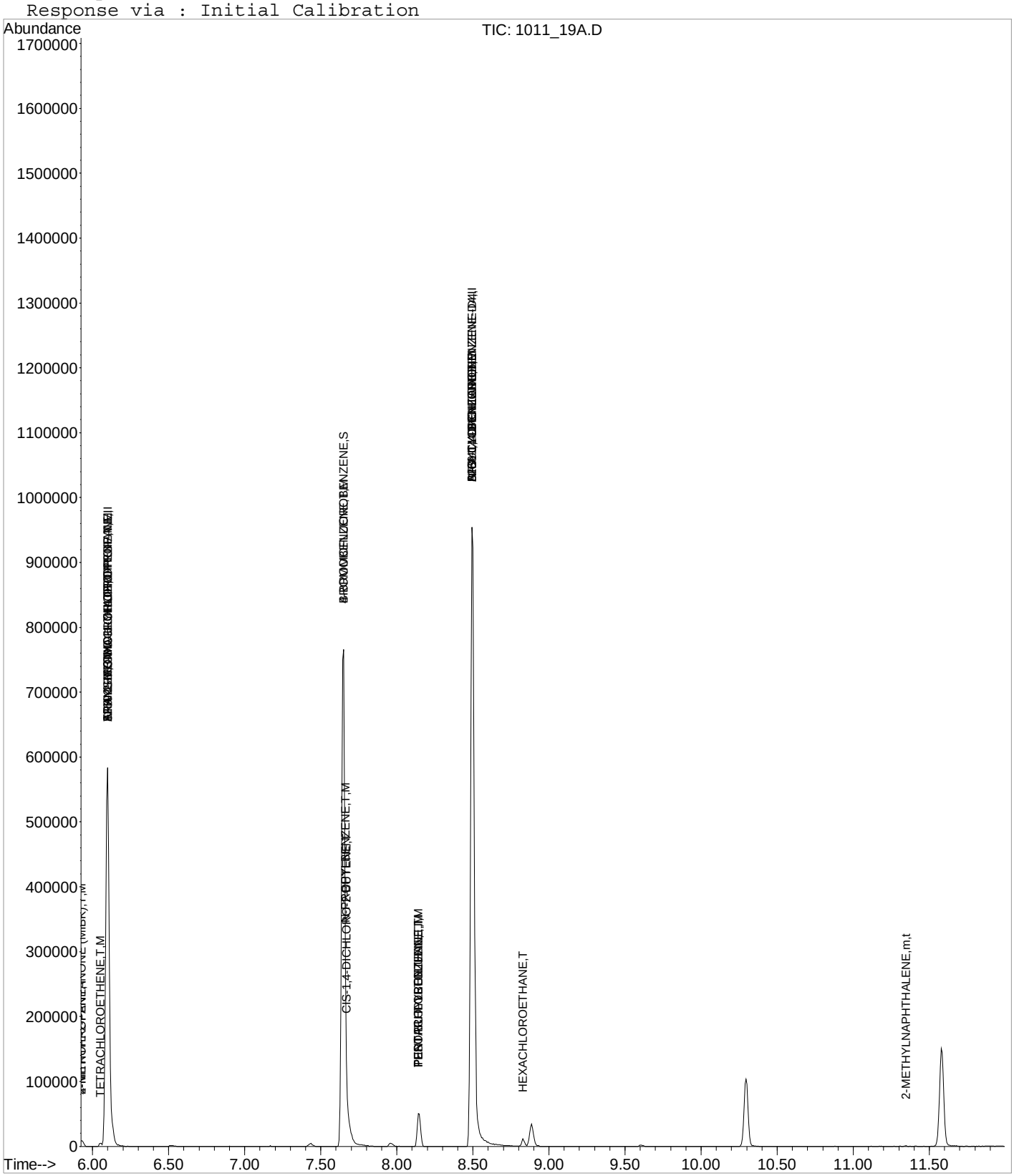
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_19A.D Vial: 19
Acq On : 12 Oct 2015 12:50 am Operator: 591
Sample : RL VMS 1a ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:07 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 16.D Vial: 16
Acq On : 11 Oct 2015 11:38 pm Operator: 591
Sample : SSCV VMS 25 ppb 15J11487 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:06:27 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	425345	40.00	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	796041	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.09	79	129410	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	317126	40.00	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.57	168	425554	40.00	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	796041	40.00	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.09	79	129410	40.00	ppb	0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	317126	40.00	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.34	111	220895	41.5635045	ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 103.91%			
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	428346	42.0460235	ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 105.12%			
50) TOLUENE-D8	5.75	98	1008028	42.1528081	ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 105.38%			
68) 4-BROMOFLUOROBENZENE	7.64	95	344030	40.0735264	ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 100.18%			
Target Compounds						Qvalue
3) PROPENE	1.77	41	20638	15.1340592	ppb	99
4) DICHLORODIFLUOROMETHANE	1.81	85	109081	25.9818311	ppb	99
5) CHLOROMETHANE	2.01	50	149937	23.5287828	ppb	100
6) VINYL CHLORIDE	2.08	62	151572	25.2189677	ppb	100
7) 1,3-BUTADIENE	2.09	39	106751	27.6140682	ppb	98
8) BROMOMETHANE	2.36	94	49631	37.6654359	ppb	100
9) CHLOROETHANE	2.45	64	70441	33.3139672	ppb	97
10) TRICHLOROFLUOROMETHANE	2.56	101	156693	28.4003830	ppb	99
11) DICHLOROFLUORMETHANE	2.60	67	214645	27.1313927	ug/l	100
12) ETHYL ETHER	2.78	59	97602	25.9845588	ppb	98
13) ACROLEIN	3.15	56	111893	121.5619462	ppb	99
14) 1,1-DICHLOROETHENE	2.94	96	105232	26.6688435	ppb	96
15) 1,1,2-TRICHLOROTRIFLUOROET	2.95	101	108039	27.1595239	ppb	98
16) ACETONE	3.33	43	358498	128.1448014	ppb	100
17) IODOMETHANE	3.06	142	572238	116.5467226	ppb	99
18) CARBON DISULFIDE	2.98	76	405627	27.2451721	ppb	99
19) METHYLENE CHLORIDE	3.31	84	115155	26.1255954	ppb	98
20) ACRYLONITRILE	3.81	53	256543	147.2191678	ppb	99
21) n-HEXANE	3.45	56	130544	26.9083408	ppb	99
22) TRANS-1,2-DICHLOROETHENE	3.41	96	118311	26.1196944	ppb	94
23) METHYL TERT-BUTYL ETHER	3.46	73	346136	26.4441284	ppb	100
24) 1,1-DICHLOROETHANE	3.78	63	213500	26.1609245	ppb	98
25) VINYL ACETATE	3.88	43	936022	134.9754121	ppb	99
26) DI-ISOPROPYL ETHER	3.66	45	383764	26.5661539	ppb	100
27) 2,2-DICHLOROPROPANE	4.16	77	182481	25.7816934	ppb	99
28) CIS-1,2-DICHLOROETHENE	4.09	96	126155	26.4068738	ppb	97
29) 2-BUTANONE (MEK)	4.40	43	436311	136.4017683	ppb	92
30) BROMOCHLOROMETHANE	4.21	130	60016	26.7119153	ppb	97
31) TETRAHYDROFURAN	4.34	42	46899	26.7699368	ppb	97
32) CHLOROFORM	4.23	83	191040	26.5811237	ppb	100
34) 1,1,1-TRICHLOROETHANE	4.38	97	160985	26.0521288	ppb	99
35) CARBON TETRACHLORIDE	4.34	117	135746	25.8066646	ppb	99
36) 1,1-DICHLOROPROPENE	4.44	75	166322	26.6666745	ppb	99
37) 2,2,4-TRIMETHYLPENTANE	4.48	57	701205	27.5188227	ppb	96
38) HEPTANE	4.52	71	158476	27.9710954	ppb #	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 16.D Vial: 16
Acq On : 11 Oct 2015 11:38 pm Operator: 591
Sample : SSCV VMS 25 ppb 15J11487 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:06:27 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
39)	BENZENE	4.58	78	487174	25.1825023	ppb		98
40)	1,2-DICHLOROETHANE	4.70	62	144745	25.5878268	ppb		98
42)	TRICHLOROETHENE	4.92	130	122820	26.0601779	ppb	#	66
43)	1,2-DICHLOROPROPANE	5.23	62	91309	25.7105871	ppb		100
44)	DIBROMOMETHANE	5.18	93	64117	26.7652596	ppb		98
45)	BROMODICHLOROMETHANE	5.25	83	153388	26.3462510	ppb		100
47)	2-CHLOROETHYL VINYL ETHER	5.56	63	345507	141.1840244	ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.64	75	191831	25.0391368	ppb		98
49)	4-METHYL-2-PENTANONE (MIBK	5.99	43	652872	140.9047711	ppb		99
51)	TOLUENE	5.79	91	530914	24.7684893	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	6.03	75	179449	27.1580204	ppb		99
54)	1,1,2-TRICHLOROETHANE	6.15	97	97935	25.7321419	ppb		99
55)	TETRACHLOROETHENE	6.05	164	87645	26.2253241	ppb		99
56)	1,3-DICHLOROPROPANE	6.34	76	187784	25.9916799	ppb		99
57)	2-HEXANONE	6.54	58	335421	136.3450543	ppb		98
58)	CHLORODIBROMOMETHANE	6.28	129	98763	25.7445502	ppb		99
59)	1,2-DIBROMOETHANE	6.46	107	97137	26.5990160	ppb		94
60)	CHLOROBENZENE	6.80	112	311974	26.5642373	ppb		100
61)	1,1,1,2-TETRACHLOROETHANE	6.83	133	93167	25.5763357	ppb		97
62)	ETHYLBENZENE	6.79	106	184699	26.6425032	ppb		96
63)	M&P-XYLENE	6.88	106	434219	49.9656774	ppb		94
64)	O-XYLENE	7.20	106	210176	25.8470096	ppb		91
65)	STYRENE	7.23	104	351632	26.9873700	ppb		99
66)	BROMOFORM	7.29	173	61870	26.3275461	ppb		97
67)	ISOPROPYLBENZENE	7.41	105	560353	25.8986444	ppb		99
69)	BROMOBENZENE	7.74	77	240264	25.7246573	ppb		98
70)	1,1,2,2-TETRACHLOROETHANE	7.77	83	134035	26.0404820	ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.89	110	38450	25.6750319	ppb		93
72)	TRANS-1,4-DICHLORO-2-BUTEN	7.90	53	37434	23.3113578	ppb		98
73)	N-PROPYLBENZENE	7.72	91	675536	26.5889270	ppb		98
74)	4-ETHYLTOLUENE	7.79	105	527402	25.3720967	ppb		99
75)	2-CHLOROTOLUENE	7.86	91	433435	26.1593692	ppb		100
76)	4-CHLOROTOLUENE	7.98	91	389704	25.7247942	ppb		100
77)	1,3,5-TRIMETHYLBENZENE	7.85	105	450776	24.9800554	ppb		99
78)	TERT-BUTYLBENZENE	8.11	119	392496	26.8873251	ppb		97
79)	1,2,4-TRIMETHYLBENZENE	8.15	105	435252	26.2749686	ppb		100
80)	SEC-BUTYLBENZENE	8.24	105	630605	27.4485182	ppb		99
81)	1,3-DICHLOROBENZENE	8.44	146	216890	25.0705841	ppb		100
82)	P-ISOPROPYLTOLUENE	8.34	119	474679	25.3153203	ppb		96
83)	DICYCLOPENTADIENE	8.36	66	570204	26.2628494	ppb		100
85)	1,4-DICHLOROBENZENE	8.51	146	216339	23.8472292	ppb		98
86)	1,2,3-TRIMETHYLBENZENE	8.50	105	447919	26.1602674	ppb		98
87)	1,2-DICHLOROBENZENE	8.85	146	214546	26.0685862	ppb		99
88)	N-BUTYLBENZENE	8.67	91	469730	27.7902539	ppb		98
89)	1,2-DIBROMO-3-CHLOROPROPAN	9.49	157	26950	26.3712775	ppb		99
90)	1,2,4-TRICHLOROBENZENE	10.05	180	135728	27.5066703	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	10.00	225	71913	25.7236286	ppb		99
92)	NAPHTHALENE	10.31	128	355675	25.2716927	ppb		100
93)	1,2,3-TRICHLOROBENZENE	10.48	180	130137	27.3048448	ppb		94
94)	1-METHYLNAPHTHALENE	11.19	142	197514	28.2498644	ppb		98
95)	2-METHYLNAPHTHALENE	11.34	142	196886	28.7575176	ppb		99
100)	METHYL ACETATE	3.39	43	16613	4.0875074	ppb	#	86
101)	ACETONITRILE	3.66	41	59904	81.8232109	ppb	#	37
104)	CHLOROPRENE	3.81	53	256543	30.5354162	ppb	#	22

(#) = qualifier out of range (m) = manual integration

Data File : C:\MSDCHEM\1\DATA\101115\1011 16.D Vial: 16
Acq On : 11 Oct 2015 11:38 pm Operator: 591
Sample : SSCV VMS 25 ppb 15J11487 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:06:27 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

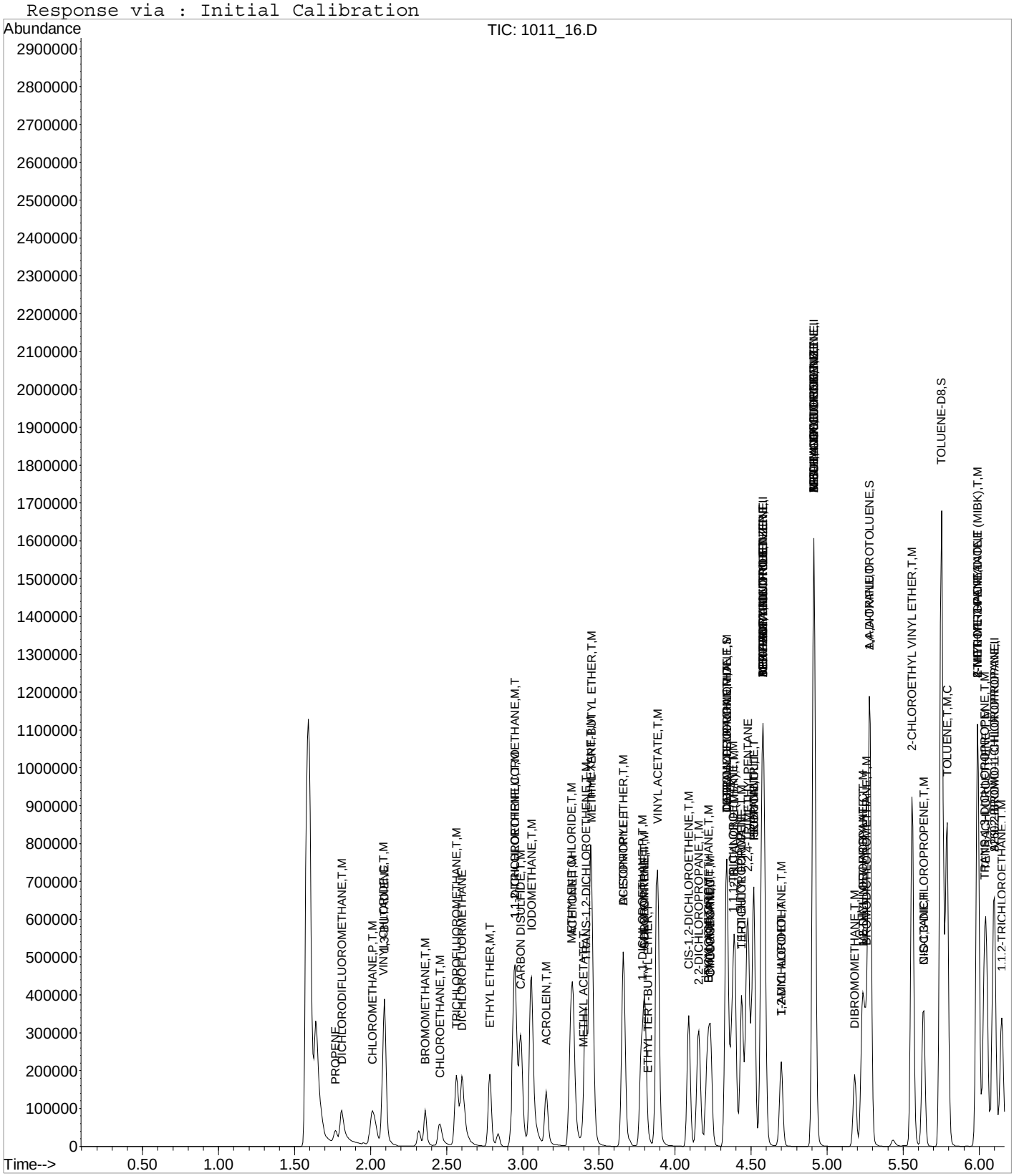
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
105)	ETHYL TERT-BUTYL ETHER	3.83	59	1981	0.1377300	ppb	#	38
106)	PROPIONITRILE	4.52	54	2143	2.3228343	ppb	#	1
107)	ETHYL ACETATE	4.21	43	5265	0.9887146	ppb	#	63
108)	METHACRYLONITRILE	4.58	67	1045	0.4318595	ppb	#	1
109)	CYCLOHEXANE	4.23	84	7277	0.5571144	ppb	#	33
110)	TERT-BUTYL FORMATE	4.44	59	519	0.1279542	ppb	#	13
111)	ISOBUTANOL	4.52	43	233558	588.4685812	ppb	#	67
112)	T-AMYL ALCOHOL	4.69	59	364	0.5671918	ppb	#	20
113)	TERT-AMYL METHYL ETHER	4.58	73	8611	0.5034781	ppb	#	1
115)	N-BUTANOL	4.91	56	14885	67.5343490	ppb	#	23
116)	METHYL CYCLOHEXANE	4.91	83	10956	0.6717130	ppb	#	47
117)	2-NITROPROPANE	5.99	43	655656	423.6398420	ppb	#	41
118)	METHYL METHACRYLATE	5.23	41	61513	13.2205894	ppb	#	12
119)	1,4-DIOXANE	5.28	88	4923	68.6298130	ppb	#	23
120)	N-OCTANE	5.64	85	2451	0.3968483	ppb	#	21
123)	ETHYL METHACRYLATE	5.99	69	5003	0.8974134	ppb	#	1
124)	CIS-1,4-DICHLORO-2-BUTENE	7.67	53	1287	0.8373397	ppb	#	1
126)	PENTACHLOROETHANE	8.15	117	14721	5.9806569	ppb	#	14
127)	HEXACHLOROETHANE	8.84	117	321	0.0960637	ppb	#	31

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

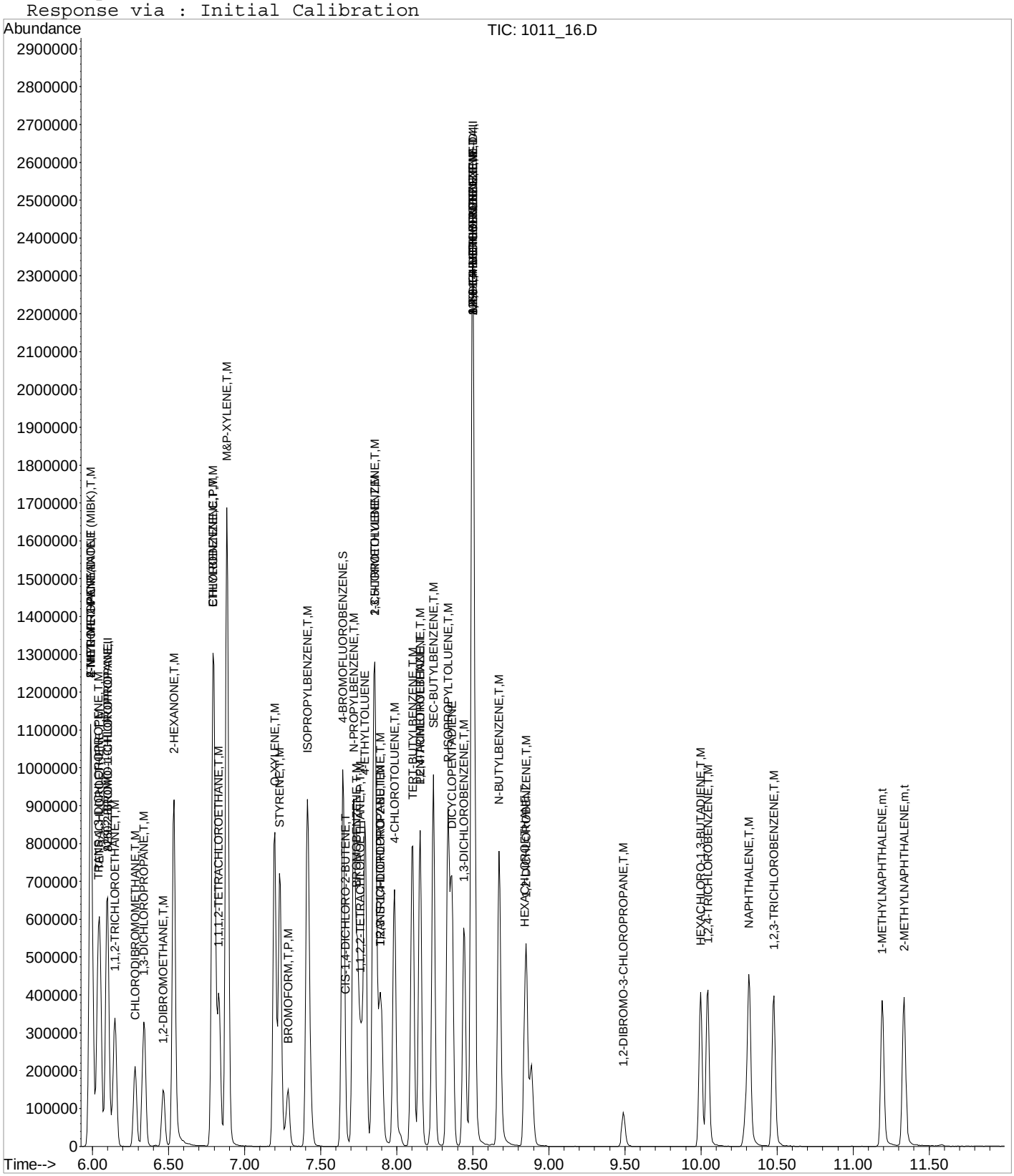
Data File : C:\MSDCHEM\1\DATA\101115\1011 16.D Vial: 16
Acq On : 11 Oct 2015 11:38 pm Operator: 591
Sample : SSCV VMS 25 ppb 15J11487 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:06 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\101115\1011_16.D Vial: 16
Acq On : 11 Oct 2015 11:38 pm Operator: 591
Sample : SSCV VMS 25 ppb 15J11487 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:06 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 29.D Vial: 29
Acq On : 12 Oct 2015 4:51 am Operator: 591
Sample : SSCV AP9 10a ppb 15H19752 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:06:35 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	367776	40.00 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	657828	40.00 ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	110332	40.00 ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	274469	40.00 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.57	168	367824	40.00 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	657828	40.00 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.10	79	110332	40.00 ppb	0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	274469	40.00 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.34	111	187747	40.8561299 ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 102.14%		
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	360109	42.7747294 ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 106.94%		
50) TOLUENE-D8	5.76	98	864510	43.7468733 ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 109.37%		
68) 4-BROMOFLUOROBENZENE	7.65	95	298803	40.8237172 ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 102.06%		
Target Compounds					Qvalue
5) CHLOROMETHANE	2.03	50	1684	Below Cal #	49
16) ACETONE	3.33	43	2052	0.8483002 ppb #	64
18) CARBON DISULFIDE	2.98	76	918	0.0713121 ppb #	80
19) METHYLENE CHLORIDE	3.31	84	8801	2.3092628 ppb	100
20) ACRYLONITRILE	3.76	53	333615	221.4153396 ppb #	50
21) n-HEXANE	3.49	56	645	0.1537615 ppb #	1
23) METHYL TERT-BUTYL ETHER	3.39	73	735	0.0649423 ppb #	5
24) 1,1-DICHLOROETHANE	3.77	63	5091	0.7214666 ppb #	42
25) VINYL ACETATE	3.87	43	10908	1.8191633 ppb #	72
27) 2,2-DICHLOROPROPANE	4.23	77	1038	0.1696091 ppb #	57
29) 2-BUTANONE (MEK)	4.48	43	52080	18.8301058 ppb #	44
31) TETRAHYDROFURAN	4.34	42	694	0.4581431 ppb #	35
32) CHLOROFORM	4.22	83	5867	0.9441110 ppb #	44
37) 2,2,4-TRIMETHYLPENTANE	4.48	57	282481	12.8212992 ppb #	1
38) HEPTANE	4.61	71	15487	3.1613401 ppb #	1
40) 1,2-DICHLOROETHANE	4.59	62	29457	6.0224929 ppb #	75
42) TRICHLOROETHENE	4.92	130	2854	0.7327998 ppb #	60
43) 1,2-DICHLOROPROPANE	5.28	62	6589	2.2451274 ppb #	48
45) BROMODICHLOROMETHANE	5.29	83	745	0.1548484 ppb #	1
49) 4-METHYL-2-PENTANONE (MIBK	5.93	43	65301	17.0545620 ppb #	33
51) TOLUENE	5.79	91	1187	0.0670115 ppb #	66
52) TRANS-1,3-DICHLOROPROPENE	6.10	75	4696	0.8600194 ppb #	1
54) 1,1,2-TRICHLOROETHANE	6.09	97	772	0.2379149 ppb #	1
55) TETRACHLOROETHENE	6.05	164	19358	6.7939219 ppb	96
56) 1,3-DICHLOROPROPANE	6.34	76	165	0.0267871 ppb #	44
57) 2-HEXANONE	6.50	58	1910	0.9106445 ppb #	1
61) 1,1,1,2-TETRACHLOROETHANE	6.83	133	1177	0.3789824 ppb #	90
69) BROMOBENZENE	7.67	77	25785	3.2381307 ppb #	29
72) TRANS-1,4-DICHLORO-2-BUTEN	7.90	53	1084	1.9147505 ppb #	70
73) N-PROPYLBENZENE	7.67	91	10412	0.4806764 ppb #	65
78) TERT-BUTYLBENZENE	8.15	119	104020	8.3578690 ppb #	34
82) P-ISOPROPYLTOLUENE	8.15	119	104020	6.5067872 ppb #	60
83) DICYCLOPENTADIENE	8.49	66	4762	0.2572571 ppb #	70
88) N-BUTYLBENZENE	8.50	91	385	0.0263174 ppb #	32
97) ETHANOL	2.87	45	63706	978.8753278 ppb	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 29.D Vial: 29
Acq On : 12 Oct 2015 4:51 am Operator: 591
Sample : SSCV AP9 10a ppb 15H19752 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:06:35 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

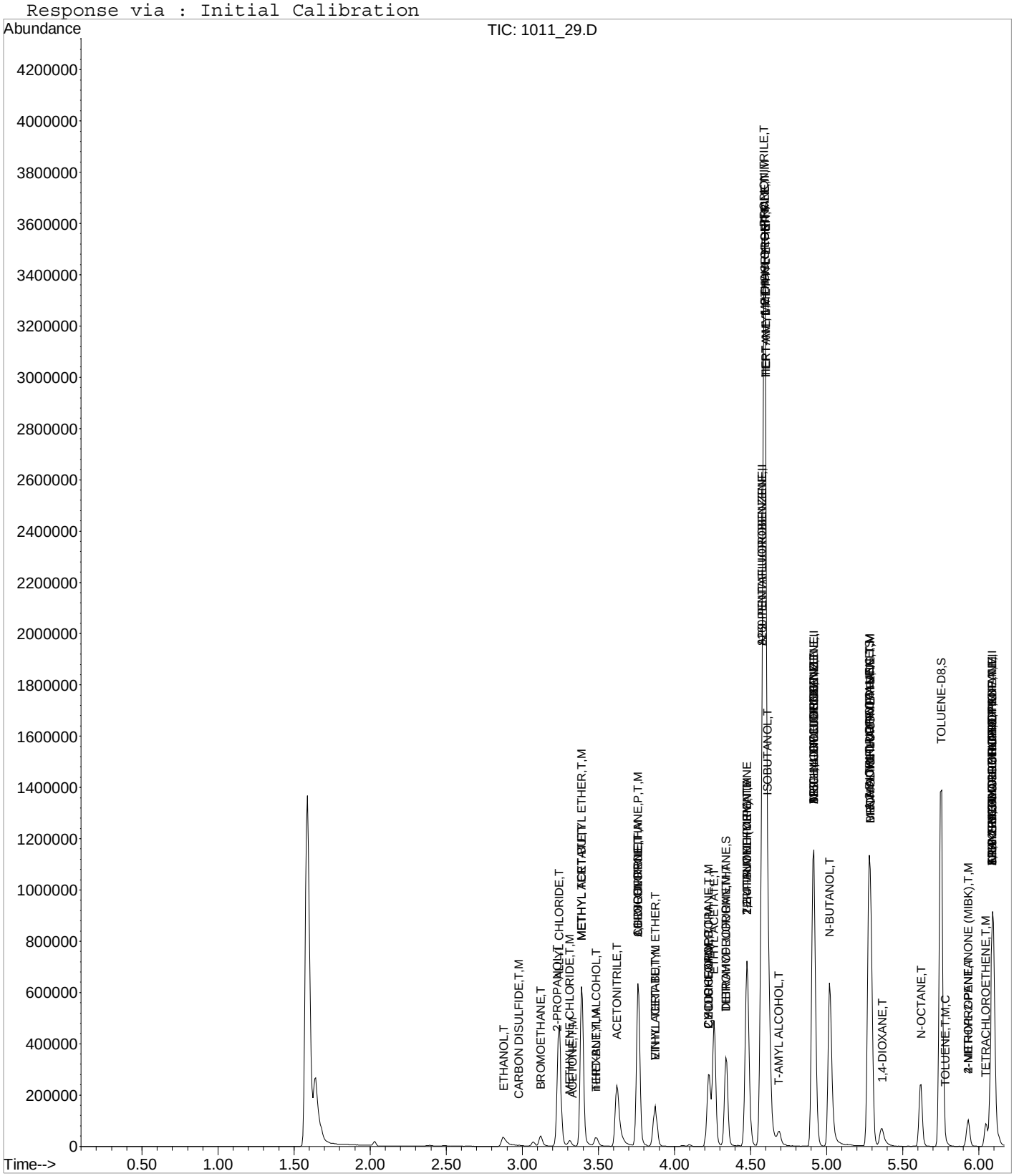
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
98)	BROMOETHANE	3.12	108	32478	9.8715288	ppb		98
99)	2-PROPANOL	3.22	45	17978	49.3787553	ppb		96
100)	METHYL ACETATE	3.39	43	661542	188.3139639	ppb	#	99
101)	ACETONITRILE	3.62	41	292089	461.5837499	ppb		100
102)	ALLYL CHLORIDE	3.24	76	110894	48.7628407	ppb		93
103)	TERT-BUTYL ALCOHOL	3.49	59	38749	47.4007335	ppb		97
104)	CHLOROPRENE	3.76	53	333615	45.9413611	ppb		99
105)	ETHYL TERT-BUTYL ETHER	3.88	59	123678	9.9483536	ppb		98
106)	PROPIONITRILE	4.58	54	362303	454.3417041	ppb		95
107)	ETHYL ACETATE	4.26	43	448818	97.5118630	ppb		100
108)	METHACRYLONITRILE	4.59	67	1022725	488.9896602	ppb		99
109)	CYCLOHEXANE	4.22	84	105334	9.3298622	ppb		100
110)	TERT-BUTYL FORMATE	4.48	59	346060	98.7081906	ppb		99
111)	ISOBUTANOL	4.62	43	340808	993.4658147	ppb	#	99
112)	T-AMYL ALCOHOL	4.69	59	28132	50.7158590	ppb		98
113)	TERT-AMYL METHYL ETHER	4.61	73	139049	9.4060978	ppb	#	84
115)	N-BUTANOL	5.02	56	387460	2127.2857686	ppb		98
116)	METHYL CYCLOHEXANE	4.92	83	126132	9.3579365	ppb		98
117)	2-NITROPROPANE	5.93	43	65301	51.0579850	ppb		100
118)	METHYL METHACRYLATE	5.29	41	203468	52.9179617	ppb		98
119)	1,4-DIOXANE	5.37	88	60861	1026.7037432	ppb		96
120)	N-OCTANE	5.62	85	51943	10.1772702	ppb		98
123)	ETHYL METHACRYLATE	6.08	69	237034	49.8699622	ppb	#	60
124)	CIS-1,4-DICHLORO-2-BUTENE	7.67	53	65024	49.6207309	ppb	#	1
126)	PENTACHLOROETHANE	8.15	117	105295	50.1748021	ppb		99
127)	HEXACHLOROETHANE	8.83	117	29220	10.2565427	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 29.D Vial: 29
Acq On : 12 Oct 2015 4:51 am Operator: 591
Sample : SSCV AP9 10a ppb 15H19752 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:06 2015 Quant Results File: V808J11O.RES

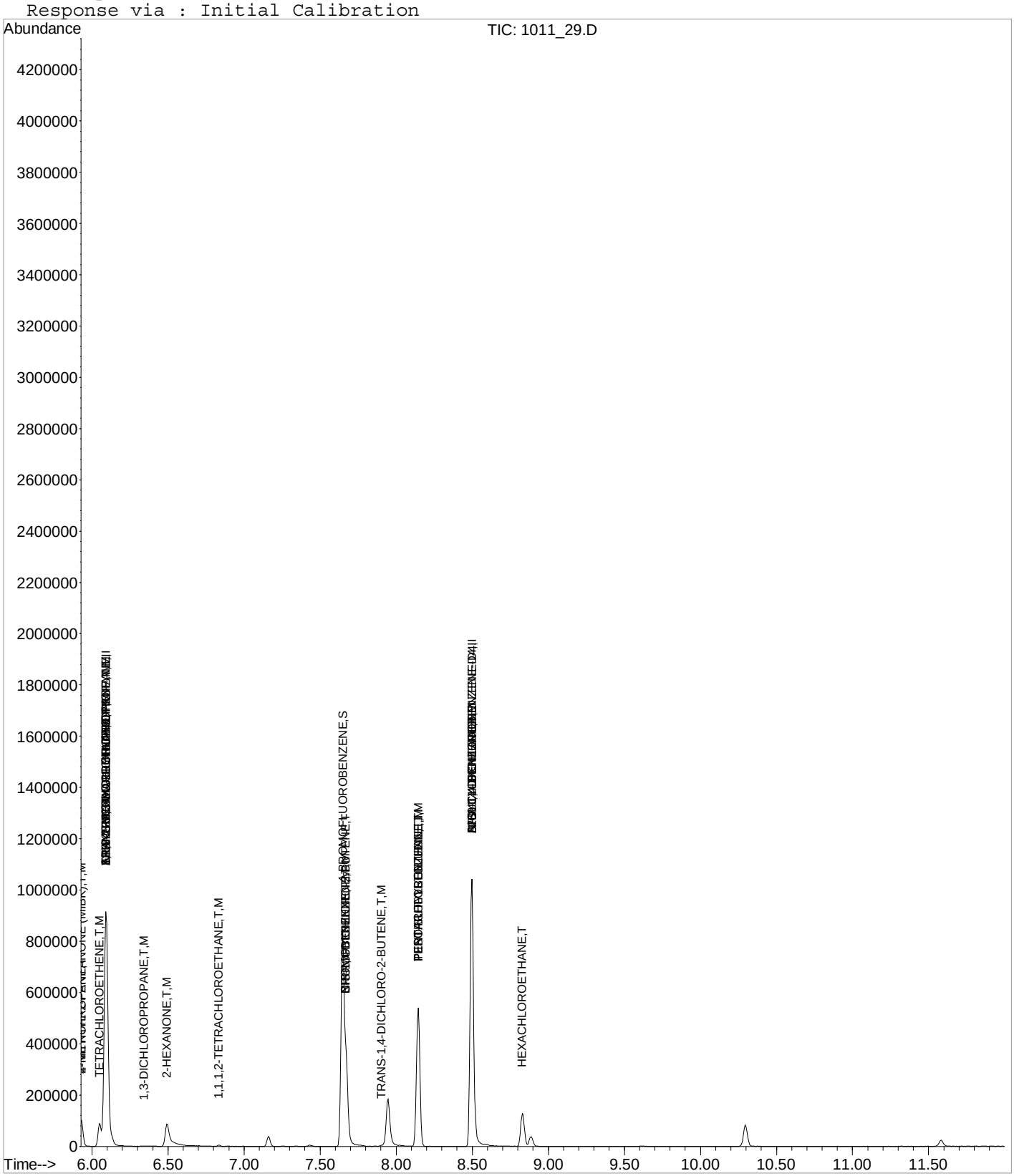
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



1011_29.D V808J11O.M Mon Oct 12 11:06:40 2015 1688 of 1797 Page 3

Data File : C:\MSDCHEM\1\DATA\101115\1011_29.D Vial: 29
Acq On : 12 Oct 2015 4:51 am Operator: 591
Sample : SSCV AP9 10a ppb 15H19752 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:06 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 11:06:11 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 04.D Vial: 4
Acq On : 11 Oct 2015 6:48 pm Operator: 591
Sample : STD VMS 0.25 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:15:53 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:15:02 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	436759	40.00	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	786608	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	121623	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	322921	40.00	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb	-4.56
114) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb	-4.91
122) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00	ppb	-6.09
128) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00	ppb	-8.49
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.34	111	218873	37.3616700	ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 93.40%			
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	417641	41.4699862	ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 103.67%			
50) TOLUENE-D8	5.75	98	971389	39.4053051	ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 98.51%			
68) 4-BROMOFLUOROBENZENE	7.64	95	339561	43.5774096	ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 108.94%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.00	TIC	-3621638m	Below Cal		
5) CHLOROMETHANE	2.00	50	4073	0.6729494	ppb #	73
6) VINYL CHLORIDE	2.08	62	581	0.0930091	ppb #	49
7) 1,3-BUTADIENE	2.09	39	610	0.1317658	ppb #	55
10) TRICHLOROFLUOROMETHANE	2.57	101	761	0.1102994	ppb #	76
11) DICHLOROFLUORMETHANE	2.61	67	935	0.1118413	ug/l #	42
13) ACROLEIN	3.15	56	313	0.6338370	ppb #	15
14) 1,1-DICHLOROETHENE	2.93	96	321	0.0828074	ppb #	5
16) ACETONE	3.33	43	3307	2.0206234	ppb #	76
17) IODOMETHANE	3.05	142	3199	6.3788515	ppb #	83
18) CARBON DISULFIDE	2.98	76	3158	0.2021165	ppb #	81
19) METHYLENE CHLORIDE	3.31	84	556	0.1350313	ppb #	58
20) ACRYLONITRILE	3.80	53	1006	0.9284015	ppb #	66
21) n-HEXANE	3.44	56	314	0.0694020	ppb #	1
22) TRANS-1,2-DICHLOROETHENE	3.41	96	518	0.1188187	ppb #	58
23) METHYL TERT-BUTYL ETHER	3.46	73	1902	0.2068330	ppb	94
24) 1,1-DICHLOROETHANE	3.78	63	1067	0.1345538	ppb #	42
25) VINYL ACETATE	3.88	43	5590	0.8421484	ppb #	87
26) DI-ISOPROPYL ETHER	3.66	45	2135	0.1594749	ppb	95
27) 2,2-DICHLOROPROPANE	4.16	77	944	0.1769523	ppb #	57
28) CIS-1,2-DICHLOROETHENE	4.10	96	492	0.1070264	ppb #	28
29) 2-BUTANONE (MEK)	4.40	43	2848	1.6306654	ppb #	77
31) TETRAHYDROFURAN	4.34	42	534	0.5900949	ppb #	35
32) CHLOROFORM	4.23	83	1191	0.1692689	ppb #	78
34) 1,1,1-TRICHLOROETHANE	4.38	97	581	0.0959289	ppb #	23
35) CARBON TETRACHLORIDE	4.34	117	334	0.0616338	ppb #	42
36) 1,1-DICHLOROPROPENE	4.44	75	832	0.1377267	ppb #	42
37) 2,2,4-TRIMETHYLPENTANE	4.48	57	4116	0.1566844	ppb #	79
38) HEPTANE	4.52	71	568	0.1025702	ppb #	34
39) BENZENE	4.59	78	3427	0.1826395	ppb #	1
40) 1,2-DICHLOROETHANE	4.70	62	608	0.1292355	ppb #	75
42) TRICHLOROETHENE	4.92	130	368	0.0974630	ppb #	66
43) 1,2-DICHLOROPROPANE	5.23	62	154	0.0501025	ppb #	1
45) BROMODICHLOROMETHANE	5.25	83	963	0.1985890	ppb #	62
47) 2-CHLOROETHYL VINYL ETHER	5.56	63	1644	2.8298609	ppb #	79

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 04.D Vial: 4
Acq On : 11 Oct 2015 6:48 pm Operator: 591
Sample : STD VMS 0.25 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:15:53 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:15:02 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

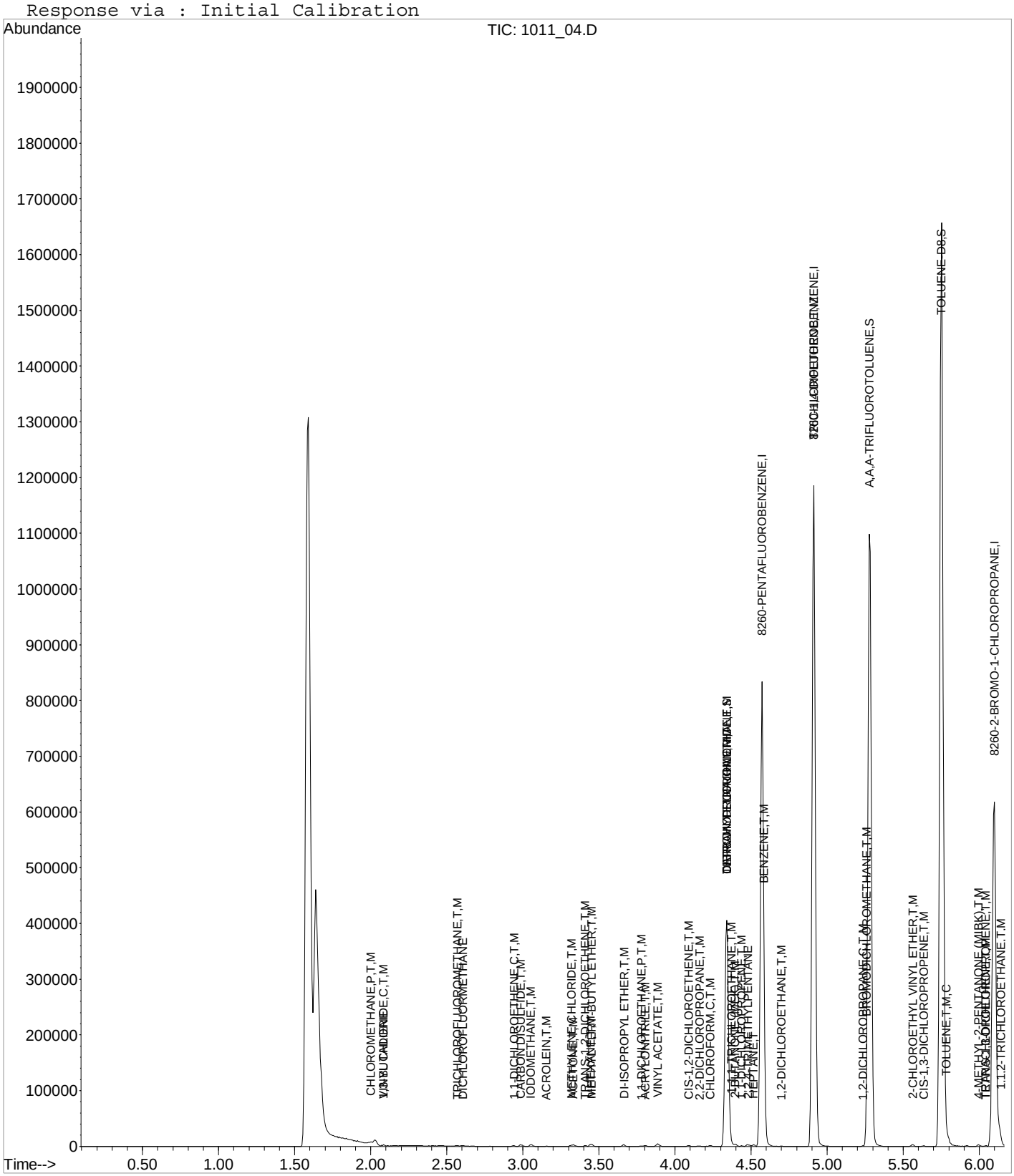
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
48)	CIS-1,3-DICHLOROPROPENE	5.63	75	1006	0.1680748	ppb	#	48
49)	4-METHYL-2-PENTANONE (MIBK	6.00	43	2614	0.9958219	ppb	#	81
51)	TOLUENE	5.79	91	4871	0.2653125	ppb		88
52)	TRANS-1,3-DICHLOROPROPENE	6.04	75	805	0.1612884	ppb	#	51
54)	1,1,2-TRICHLOROETHANE	6.15	97	340	0.1287185	ppb	#	56
55)	TETRACHLOROETHENE	6.05	164	173	0.0641666	ppb	#	30
56)	1,3-DICHLOROPROPANE	6.34	76	1368	0.2677797	ppb	#	44
58)	CHLORODIBROMOMETHANE	6.29	129	167	0.0603708	ppb	#	19
60)	CHLOROBENZENE	6.81	112	1713	0.1745638	ppb	#	77
62)	ETHYLBENZENE	6.80	106	797	0.1410276	ppb	#	55
63)	M&P-XYLENE	6.89	106	2406	0.3374799	ppb		83
64)	O-XYLENE	7.21	106	873	0.1305810	ppb	#	47
65)	STYRENE	7.24	104	1499	0.1464216	ppb	#	73
67)	ISOPROPYLBENZENE	7.42	105	3875	0.2137304	ppb	#	83
69)	BROMOBENZENE	7.73	77	1493	0.1978331	ppb	#	56
70)	1,1,2,2-TETRACHLOROETHANE	7.77	83	386	0.1285466	ppb	#	26
73)	N-PROPYLBENZENE	7.72	91	3925	0.1870580	ppb	#	60
74)	4-ETHYLTOLUENE	7.80	105	3659	0.1984098	ppb	#	85
75)	2-CHLOROTOLUENE	7.86	91	2486	0.1792120	ppb	#	77
76)	4-CHLOROTOLUENE	8.00	91	2458	0.2022045	ppb	#	77
77)	1,3,5-TRIMETHYLBENZENE	7.80	105	1803	0.1206208	ppb		88
78)	TERT-BUTYLBENZENE	8.11	119	2130	0.1763023	ppb	#	81
79)	1,2,4-TRIMETHYLBENZENE	8.16	105	2691	0.2028404	ppb		86
80)	SEC-BUTYLBENZENE	8.24	105	3689	0.1962536	ppb	#	78
81)	1,3-DICHLOROBENZENE	8.45	146	1447	0.2175508	ppb	#	71
82)	P-ISOPROPYLTOLUENE	8.34	119	2439	0.1673341	ppb	#	48
83)	DICYCLOPENTADIENE	8.37	66	2631	0.1261293	ppb	#	70
85)	1,4-DICHLOROBENZENE	8.51	146	2003	0.2584121	ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.51	105	3056	0.1998858	ppb		96
87)	1,2-DICHLOROBENZENE	8.87	146	1018	0.1537067	ppb	#	75
88)	N-BUTYLBENZENE	8.69	91	1691	0.1143068	ppb	#	71
90)	1,2,4-TRICHLOROBENZENE	10.06	180	325	0.0893593	ppb	#	83
92)	NAPHTHALENE	10.33	128	1753	0.2107636	ppb	#	72
93)	1,2,3-TRICHLOROBENZENE	10.49	180	168	0.0526092	ppb	#	11
94)	1-METHYLNAPHTHALENE	11.21	142	526	0.1153577	ppb	#	71
95)	2-METHYLNAPHTHALENE	11.34	142	999	0.2566426	ppb	#	58

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 04.D Vial: 4
Acq On : 11 Oct 2015 6:48 pm Operator: 591
Sample : STD VMS 0.25 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:17 2015 Quant Results File: V808J11O.RES

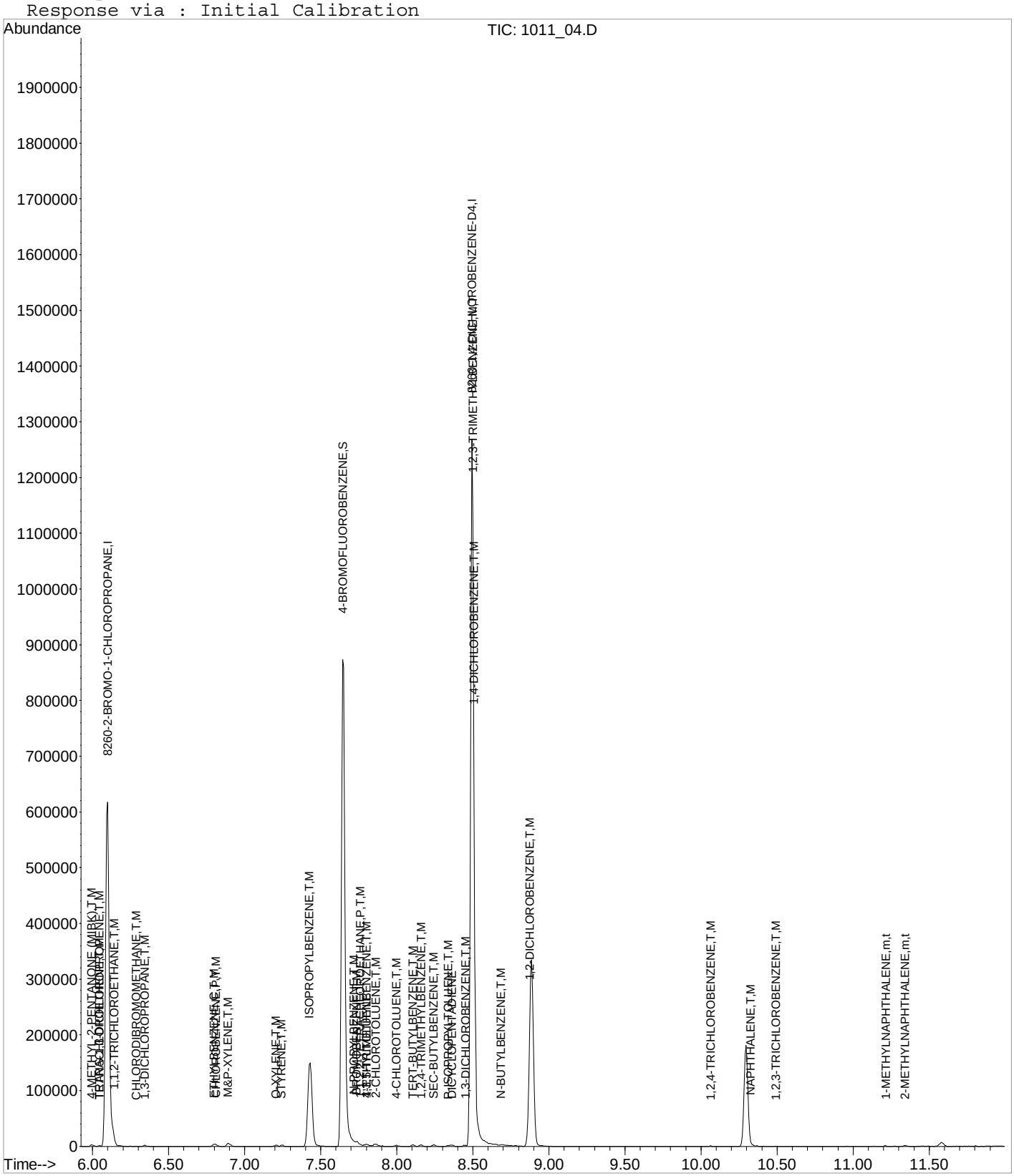
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:15:26 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_04.D Vial: 4
Acq On : 11 Oct 2015 6:48 pm Operator: 591
Sample : STD VMS 0.25 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:17 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:15:26 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 05.D Vial: 5
Acq On : 11 Oct 2015 7:12 pm Operator: 591
Sample : STD VMS 0.5 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:15:56 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:15:26 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	452207	40.00	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	797068	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	126893	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	308155	40.00	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb	-4.56
114) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb	-4.91
122) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00	ppb	-6.09
128) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00	ppb	-8.49
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.34	111	220022	36.2747794	ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 90.69%			
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	409291	40.1075325	ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 100.27%			
50) TOLUENE-D8	5.75	98	1007266	40.3244704	ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 100.81%			
68) 4-BROMOFLUOROBENZENE	7.65	95	348744	42.8971459	ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 107.24%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.00	TIC	-4035979m	Below Cal		
3) PROPENE	1.77	41	919	0.7053177	ppb #	40
4) DICHLORODIFLUOROMETHANE	1.81	85	1630	0.3334128	ppb #	59
5) CHLOROMETHANE	2.00	50	6921	1.1044383	ppb #	85
6) VINYL CHLORIDE	2.08	62	2746	0.4245750	ppb #	82
7) 1,3-BUTADIENE	2.09	39	1853	0.3865922	ppb	98
8) BROMOMETHANE	2.35	94	772	0.2239082	ppb #	91
9) CHLOROETHANE	2.45	64	1113	0.2973324	ppb #	48
10) TRICHLOROFLUOROMETHANE	2.57	101	2651	0.3711101	ppb #	89
11) DICHLOROFLUORMETHANE	2.60	67	3615	0.4176412	ug/l #	85
12) ETHYL ETHER	2.78	59	1664	0.5450941	ppb	91
13) ACROLEIN	3.16	56	2024	3.9586612	ppb	88
14) 1,1-DICHLOROETHENE	2.94	96	1680	0.4185794	ppb	91
15) 1,1,2-TRICHLOROTRIFLUOROET	2.96	101	1834	0.4420827	ppb #	86
16) ACETONE	3.33	43	8165	4.8185011	ppb	88
17) IODOMETHANE	3.05	142	7249	7.2375875	ppb #	86
18) CARBON DISULFIDE	2.99	76	7957	0.4918624	ppb #	88
19) METHYLENE CHLORIDE	3.31	84	1961	0.4599830	ppb	97
20) ACRYLONITRILE	3.80	53	3886	3.4637394	ppb #	91
21) n-HEXANE	3.45	56	2109	0.4502184	ppb	85
22) TRANS-1,2-DICHLOROETHENE	3.41	96	2049	0.4539434	ppb	92
23) METHYL TERT-BUTYL ETHER	3.46	73	6361	0.6680967	ppb	97
24) 1,1-DICHLOROETHANE	3.78	63	3396	0.4136222	ppb	92
25) VINYL ACETATE	3.89	43	18118	2.6362809	ppb	97
26) DI-ISOPROPYL ETHER	3.66	45	6928	0.4998123	ppb	99
27) 2,2-DICHLOROPROPANE	4.16	77	3480	0.6300399	ppb #	57
28) CIS-1,2-DICHLOROETHENE	4.09	96	2121	0.4456264	ppb	87
29) 2-BUTANONE (MEK)	4.40	43	8284	4.5810975	ppb #	86
30) BROMOCHLOROMETHANE	4.21	130	904	0.4504265	ppb	89
31) TETRAHYDROFURAN	4.34	42	1087	1.1601516	ppb #	71
32) CHLOROFORM	4.23	83	3700	0.5078924	ppb #	95
34) 1,1,1-TRICHLOROETHANE	4.37	97	2931	0.4674056	ppb #	93
35) CARBON TETRACHLORIDE	4.34	117	2357	0.4200846	ppb	90
36) 1,1-DICHLOROPROPENE	4.45	75	2680	0.4284835	ppb #	85
37) 2,2,4-TRIMETHYLPENTANE	4.48	57	12779	0.4698422	ppb	94

(#) = qualifier out of range (m) = manual integration

Data File : C:\MSDCHEM\1\DATA\101115\1011 05.D Vial: 5
Acq On : 11 Oct 2015 7:12 pm Operator: 591
Sample : STD VMS 0.5 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:15:56 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:15:26 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

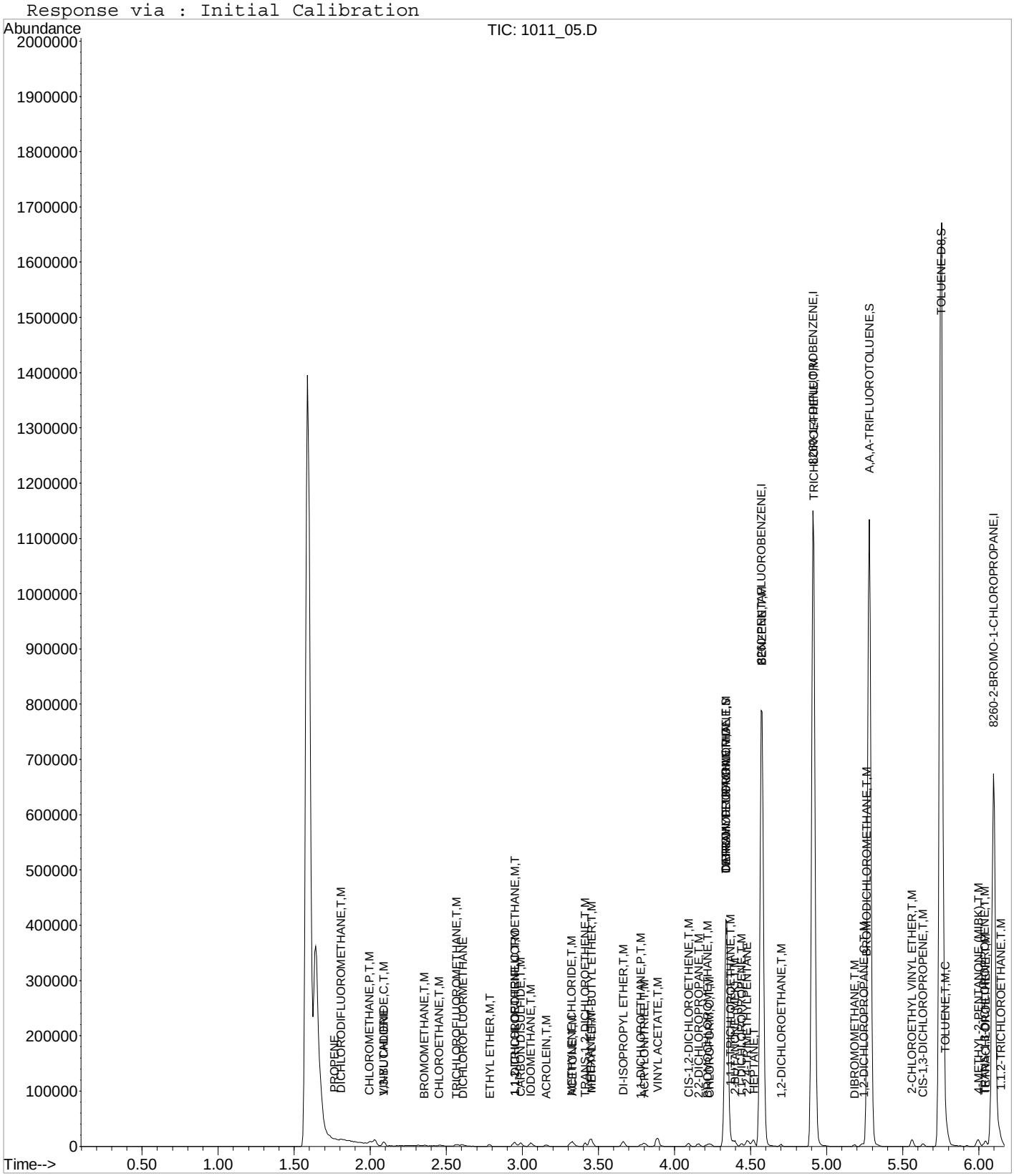
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	HEPTANE	4.51	71	2101	0.3664404	ppb	#	62
39)	BENZENE	4.58	78	9629	0.4956401	ppb	#	24
40)	1,2-DICHLOROETHANE	4.70	62	2772	0.5690837	ppb	#	75
42)	TRICHLOROETHENE	4.92	130	2214	0.5786721	ppb	#	100
43)	1,2-DICHLOROPROPANE	5.24	62	1675	0.5377947	ppb	#	87
44)	DIBROMOMETHANE	5.18	93	945	0.5251483	ppb	#	87
45)	BROMODICHLOROMETHANE	5.26	83	2816	0.5730922	ppb	#	93
47)	2-CHLOROETHYL VINYL ETHER	5.56	63	5089	8.6448749	ppb	#	93
48)	CIS-1,3-DICHLOROPROPENE	5.63	75	3251	0.5360243	ppb	#	89
49)	4-METHYL-2-PENTANONE (MIBK	6.00	43	9285	3.4907681	ppb		90
51)	TOLUENE	5.78	91	11423	0.6140203	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	6.03	75	2808	0.5552228	ppb	#	83
54)	1,1,2-TRICHLOROETHANE	6.15	97	1688	0.6125090	ppb		96
55)	TETRACHLOROETHENE	6.05	164	1400	0.4977015	ppb	#	87
56)	1,3-DICHLOROPROPANE	6.34	76	4020	0.7542159	ppb		93
57)	2-HEXANONE	6.57	58	912	3.9854994	ppb		83
58)	CHLORODIBROMOMETHANE	6.29	129	1729	0.5990778	ppb	#	82
59)	1,2-DIBROMOETHANE	6.47	107	1399	0.5816638	ppb		100
60)	CHLOROBENZENE	6.81	112	5508	0.5379834	ppb	#	93
61)	1,1,1,2-TETRACHLOROETHANE	6.83	133	1640	0.5362610	ppb	#	81
62)	ETHYLBENZENE	6.80	106	3009	0.5103240	ppb		94
63)	M&P-XYLENE	6.89	106	7983	1.0732389	ppb		90
64)	O-XYLENE	7.20	106	3488	0.5000577	ppb		83
65)	STYRENE	7.24	104	5285	0.4947966	ppb		89
66)	BROMOFORM	7.29	173	634	0.4107354	ppb	#	27
67)	ISOPROPYLBENZENE	7.42	105	10424	0.5510704	ppb		99
69)	BROMOBENZENE	7.74	77	4246	0.5392587	ppb		93
70)	1,1,2,2-TETRACHLOROETHANE	7.77	83	1998	0.6377448	ppb	#	93
73)	N-PROPYLBENZENE	7.73	91	12127	0.5539468	ppb	#	95
74)	4-ETHYLTOLUENE	7.80	105	9608	0.4993578	ppb		98
75)	2-CHLOROTOLUENE	7.87	91	8300	0.5734850	ppb	#	87
76)	4-CHLOROTOLUENE	7.99	91	7291	0.5748758	ppb	#	91
77)	1,3,5-TRIMETHYLBENZENE	7.86	105	8432	0.5406734	ppb		99
78)	TERT-BUTYLBENZENE	8.11	119	6678	0.5297890	ppb		94
79)	1,2,4-TRIMETHYLBENZENE	8.16	105	7285	0.5263181	ppb		93
80)	SEC-BUTYLBENZENE	8.24	105	11247	0.5734871	ppb		98
81)	1,3-DICHLOROBENZENE	8.45	146	4215	0.6073902	ppb		87
82)	P-ISOPROPYLTOLUENE	8.34	119	7923	0.5210033	ppb		93
83)	DICYCLOPENTADIENE	8.36	66	8910	0.4094027	ppb	#	93
85)	1,4-DICHLOROBENZENE	8.52	146	4700	0.6354141	ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.50	105	8041	0.5511449	ppb		93
87)	1,2-DICHLOROBENZENE	8.86	146	3546	0.5610619	ppb		92
88)	N-BUTYLBENZENE	8.69	91	6493	0.4599395	ppb	#	83
90)	1,2,4-TRICHLOROBENZENE	10.06	180	1691	0.4872221	ppb	#	86
91)	HEXACHLORO-1,3-BUTADIENE	10.01	225	1229	0.5294497	ppb	#	73
92)	NAPHTHALENE	10.32	128	5503	0.6933304	ppb	#	72
93)	1,2,3-TRICHLOROBENZENE	10.49	180	1867	0.6126666	ppb	#	82
94)	1-METHYLNAPHTHALENE	11.20	142	2716	0.6241910	ppb	#	89
95)	2-METHYLNAPHTHALENE	11.34	142	2932	0.7893221	ppb	#	81

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 05.D Vial: 5
Acq On : 11 Oct 2015 7:12 pm Operator: 591
Sample : STD VMS 0.5 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:18 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:17:57 2015
Response via : Initial Calibration

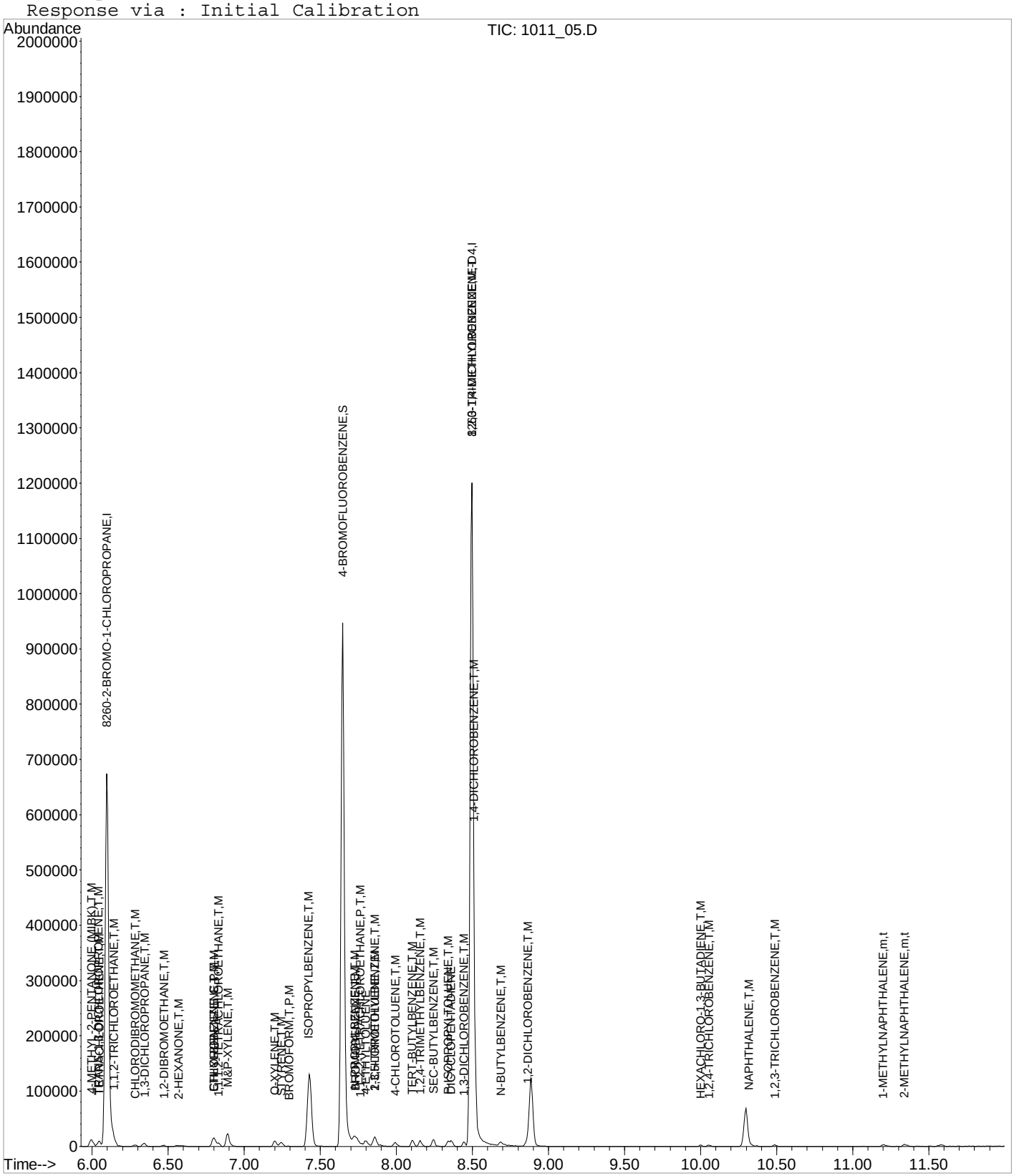


1011_05.D V808J11O.M Mon Oct 12 10:18:59 2015 1696 of 1797 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_05.D Vial: 5
Acq On : 11 Oct 2015 7:12 pm Operator: 591
Sample : STD VMS 0.5 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:18 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:17:57 2015
Response via : Initial Calibration



1011_05.D V808J11O.M Mon Oct 12 10:18:59 2015 1697 of 1797 Page 4

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 06.D Vial: 6
Acq On : 11 Oct 2015 7:36 pm Operator: 591
Sample : STD VMS 1 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SUR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:15:59 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:15:26 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	450312	40.00	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	794664	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	128953	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.49	152	312734	40.00	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb	-4.56
114) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb	-4.91
122) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00	ppb	-6.09
128) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00	ppb	-8.49
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.34	111	231866	38.3883550	ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 95.97%			
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	422492	41.5263800	ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 103.82%			
50) TOLUENE-D8	5.75	98	985535	39.5738575	ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 98.93%			
68) 4-BROMOFLUOROBENZENE	7.64	95	354864	42.9526350	ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 107.38%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.00	TIC	-3753594m	Below Cal		
3) PROPENE	1.76	41	1617	1.2462439	ppb #	76
4) DICHLORODIFLUOROMETHANE	1.82	85	3742	0.7686386	ppb #	80
5) CHLOROMETHANE	2.00	50	12184	1.9524784	ppb #	89
6) VINYL CHLORIDE	2.08	62	5650	0.8772555	ppb #	91
7) 1,3-BUTADIENE	2.09	39	3842	0.8049312	ppb	95
8) BROMOMETHANE	2.36	94	1580	0.4601862	ppb #	86
9) CHLOROETHANE	2.45	64	2486	0.6669172	ppb #	73
10) TRICHLOROFLUOROMETHANE	2.56	101	6025	0.8469813	ppb #	95
11) DICHLOROFLUORMETHANE	2.60	67	7840	0.9095673	ug/l	95
12) ETHYL ETHER	2.78	59	3511	1.1549753	ppb	97
13) ACROLEIN	3.15	56	3979	7.8151178	ppb	99
14) 1,1-DICHLOROETHENE	2.94	96	3647	0.9124900	ppb	93
15) 1,1,2-TRICHLOROTRIFLUOROET	2.95	101	3779	0.9147551	ppb #	88
16) ACETONE	3.33	43	14777	8.7572109	ppb	93
17) IODOMETHANE	3.06	142	13227	8.5536954	ppb	97
18) CARBON DISULFIDE	2.99	76	15270	0.9478881	ppb #	92
19) METHYLENE CHLORIDE	3.31	84	4270	1.0058096	ppb	96
20) ACRYLONITRILE	3.80	53	7768	6.9530506	ppb	97
21) n-HEXANE	3.45	56	4731	1.0141995	ppb #	96
22) TRANS-1,2-DICHLOROETHENE	3.41	96	4353	0.9684388	ppb	96
23) METHYL TERT-BUTYL ETHER	3.46	73	12024	1.2681969	ppb	99
24) 1,1-DICHLOROETHANE	3.78	63	8005	0.9790869	ppb	97
25) VINYL ACETATE	3.88	43	33600	4.9095814	ppb	99
26) DI-ISOPROPYL ETHER	3.66	45	13904	1.0073087	ppb	98
27) 2,2-DICHLOROPROPANE	4.16	77	6815	1.2390204	ppb	92
28) CIS-1,2-DICHLOROETHENE	4.09	96	4795	1.0116787	ppb	96
29) 2-BUTANONE (MEK)	4.39	43	14956	8.3055550	ppb	93
30) BROMOCHLOROMETHANE	4.21	130	2049	1.0252298	ppb #	74
31) TETRAHYDROFURAN	4.34	42	1666	1.7855991	ppb #	76
32) CHLOROFORM	4.23	83	7262	1.0010368	ppb #	96
34) 1,1,1-TRICHLOROETHANE	4.38	97	5708	0.9140835	ppb	98
35) CARBON TETRACHLORIDE	4.34	117	4896	0.8762788	ppb	92
36) 1,1-DICHLOROPROPENE	4.44	75	6014	0.9655761	ppb	97
37) 2,2,4-TRIMETHYLPENTANE	4.48	57	25276	0.9332268	ppb	98

(#) = qualifier out of range (m) = manual integration

Data File : C:\MSDCHEM\1\DATA\101115\1011 06.D Vial: 6
Acq On : 11 Oct 2015 7:36 pm Operator: 591
Sample : STD VMS 1 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:15:59 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:15:26 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

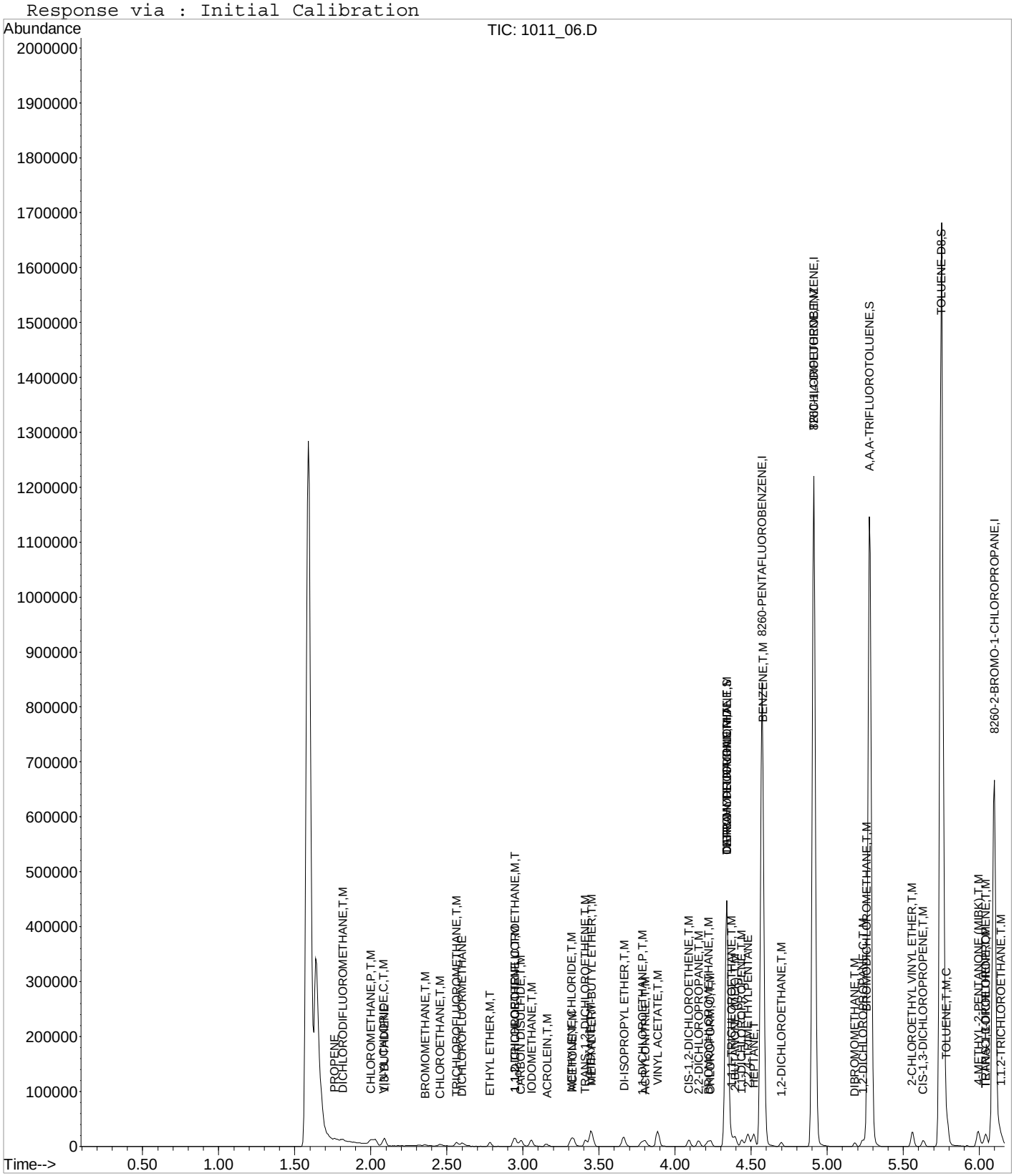
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	HEPTANE	4.52	71	5156	0.9030545	ppb	#	88
39)	BENZENE	4.58	78	18319	0.9469146	ppb	#	66
40)	1,2-DICHLOROETHANE	4.70	62	5220	1.0761609	ppb	#	83
42)	TRICHLOROETHENE	4.92	130	4531	1.1878478	ppb	#	66
43)	1,2-DICHLOROPROPANE	5.23	62	3284	1.0575883	ppb		94
44)	DIBROMOMETHANE	5.18	93	2097	1.1688544	ppb		94
45)	BROMODICHLOROMETHANE	5.25	83	5248	1.0712665	ppb	#	72
47)	2-CHLOROETHYL VINYL ETHER	5.56	63	10534	17.9486344	ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.63	75	6812	1.1265590	ppb	#	95
49)	4-METHYL-2-PENTANONE (MIBK	5.99	43	19294	7.2756736	ppb		100
51)	TOLUENE	5.79	91	20797	1.1212827	ppb		98
52)	TRANS-1,3-DICHLOROPROPENE	6.04	75	5481	1.0870306	ppb	#	95
54)	1,1,2-TRICHLOROETHANE	6.15	97	3675	1.3122107	ppb		96
55)	TETRACHLOROETHENE	6.05	164	3445	1.2051368	ppb		91
56)	1,3-DICHLOROPROPANE	6.34	76	6871	1.2685155	ppb		96
57)	2-HEXANONE	6.56	58	5464	7.5114450	ppb		86
58)	CHLORODIBROMOMETHANE	6.29	129	3469	1.1827658	ppb	#	94
59)	1,2-DIBROMOETHANE	6.46	107	3359	1.3742652	ppb		97
60)	CHLOROBENZENE	6.80	112	10980	1.0553184	ppb		100
61)	1,1,1,2-TETRACHLOROETHANE	6.83	133	3108	1.0000452	ppb	#	91
62)	ETHYLBENZENE	6.80	106	6451	1.0766066	ppb		96
63)	M&P-XYLENE	6.89	106	15499	2.0504075	ppb		83
64)	O-XYLENE	7.20	106	7286	1.0278720	ppb		91
65)	STYRENE	7.24	104	10961	1.0098063	ppb		98
66)	BROMOFORM	7.29	173	1959	1.2488595	ppb	#	68
67)	ISOPROPYLBENZENE	7.42	105	21048	1.0949385	ppb		97
69)	BROMOBENZENE	7.74	77	9105	1.1378979	ppb		97
70)	1,1,2,2-TETRACHLOROETHANE	7.76	83	4669	1.4664982	ppb	#	93
71)	1,2,3-TRICHLOROPROPANE	7.89	110	1304	1.7179001	ppb	#	90
72)	TRANS-1,4-DICHLORO-2-BUTEN	7.91	53	493	2.1899830	ppb	#	19
73)	N-PROPYLBENZENE	7.72	91	24677	1.1092087	ppb		96
74)	4-ETHYLTOLUENE	7.80	105	19476	0.9960584	ppb		99
75)	2-CHLOROTOLUENE	7.86	91	16849	1.1455770	ppb		96
76)	4-CHLOROTOLUENE	7.99	91	15167	1.1767733	ppb	#	95
77)	1,3,5-TRIMETHYLBENZENE	7.86	105	17859	1.1268544	ppb		96
78)	TERT-BUTYLBENZENE	8.11	119	14274	1.1143162	ppb		95
79)	1,2,4-TRIMETHYLBENZENE	8.15	105	15773	1.1213450	ppb		97
80)	SEC-BUTYLBENZENE	8.24	105	21719	1.0897653	ppb		98
81)	1,3-DICHLOROBENZENE	8.45	146	8334	1.1817616	ppb		99
82)	P-ISOPROPYLTOLUENE	8.34	119	16060	1.0392081	ppb		97
83)	DICYCLOPENTADIENE	8.36	66	19086	0.8629670	ppb		99
85)	1,4-DICHLOROBENZENE	8.51	146	9462	1.2604802	ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.50	105	15802	1.0672396	ppb		96
87)	1,2-DICHLOROBENZENE	8.85	146	7395	1.1529337	ppb		96
88)	N-BUTYLBENZENE	8.68	91	13089	0.9135997	ppb		94
89)	1,2-DIBROMO-3-CHLOROPROPAN	9.50	157	167	0.3239049	ppb	#	1
90)	1,2,4-TRICHLOROBENZENE	10.05	180	3489	0.9905547	ppb	#	95
91)	HEXACHLORO-1,3-BUTADIENE	10.00	225	2479	1.0523094	ppb	#	90
92)	NAPHTHALENE	10.33	128	11478	1.4249546	ppb	#	92
93)	1,2,3-TRICHLOROBENZENE	10.48	180	3960	1.2804693	ppb		96
94)	1-METHYLNAPHTHALENE	11.20	142	5695	1.2896611	ppb	#	91
95)	2-METHYLNAPHTHALENE	11.34	142	5493	1.4571155	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 06.D Vial: 6
Acq On : 11 Oct 2015 7:36 pm Operator: 591
Sample : STD VMS 1 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:20 2015 Quant Results File: V808J11O.RES

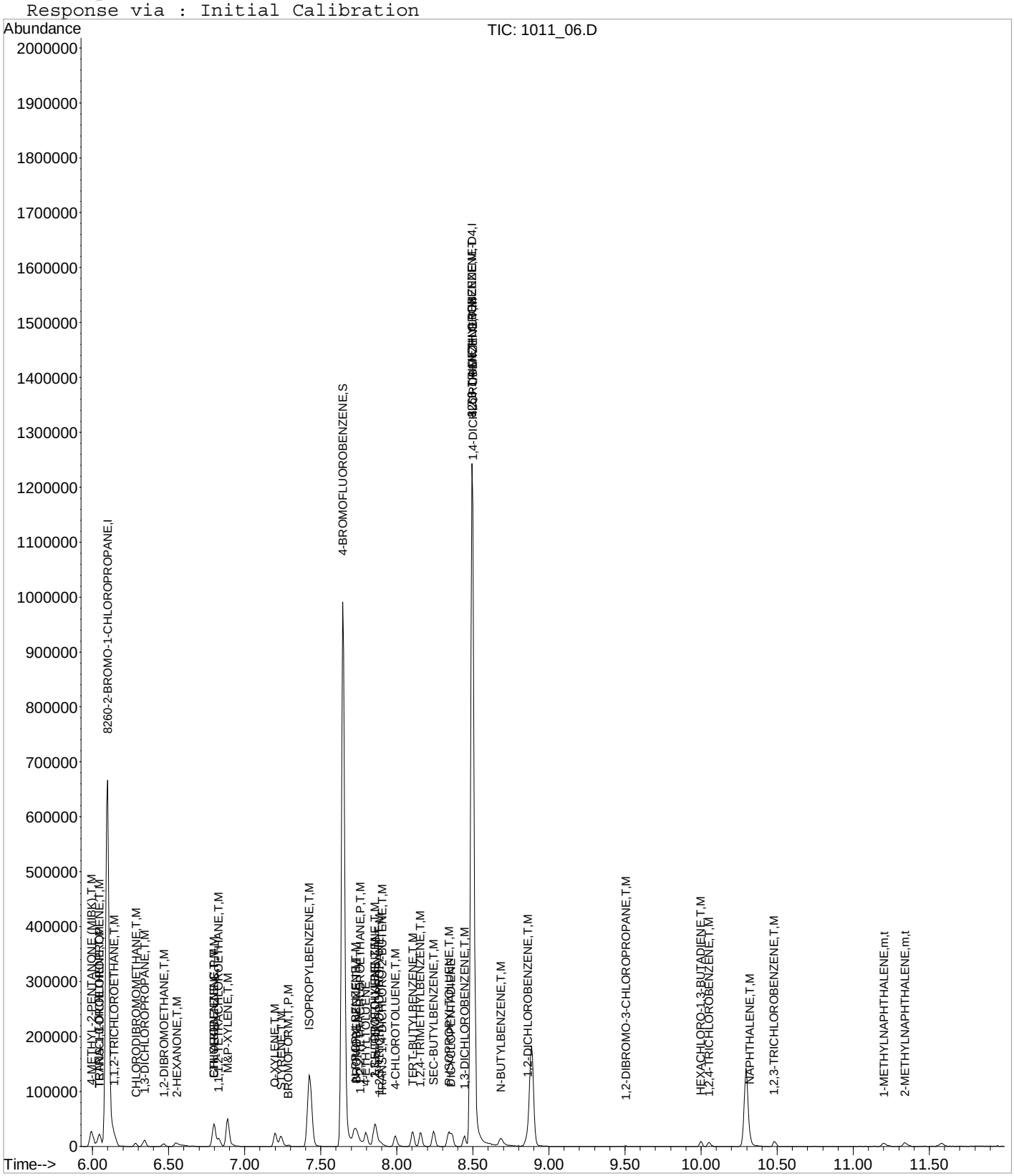
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:19:03 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_06.D Vial: 6
Acq On : 11 Oct 2015 7:36 pm Operator: 591
Sample : STD VMS 1 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:20 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:19:03 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 07.D Vial: 7
Acq On : 11 Oct 2015 8:01 pm Operator: 591
Sample : STD VMS 2 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:16:02 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:15:26 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	415138	40.00	ppb		0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	767468	40.00	ppb		0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	126777	40.00	ppb		0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	312629	40.00	ppb		0.00
96) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.56
114) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.91
122) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00	ppb		-6.09
128) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00	ppb		-8.49
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	4.34	111	230254	41.3514409	ppb		0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 103.38%				
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	427477	43.5052431	ppb		0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 108.76%				
50) TOLUENE-D8	5.75	98	998259	41.5052305	ppb		0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 103.76%				
68) 4-BROMOFLUOROBENZENE	7.64	95	361247	44.4757312	ppb		0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 111.19%				
Target Compounds							Qvalue
2) TPH (GC/MS) LOW FRACTION	6.00	TIC	-3660991m	Below Cal			
3) PROPENE	1.77	41	2737	2.2881731	ppb		93
4) DICHLORODIFLUOROMETHANE	1.81	85	8029	1.7889610	ppb		97
5) CHLOROMETHANE	2.00	50	21005	3.6512374	ppb		97
6) VINYL CHLORIDE	2.08	62	12219	2.0579478	ppb		96
7) 1,3-BUTADIENE	2.09	39	7949	1.8064873	ppb		97
8) BROMOMETHANE	2.36	94	2918	0.9218978	ppb	#	93
9) CHLOROETHANE	2.45	64	5355	1.5583009	ppb	#	86
10) TRICHLOROFLUOROMETHANE	2.56	101	12265	1.8702746	ppb		98
11) DICHLOROFLUORMETHANE	2.60	67	15946	2.0067420	ug/l		94
12) ETHYL ETHER	2.78	59	7158	2.5541983	ppb		96
13) ACROLEIN	3.15	56	9006	19.1873308	ppb		97
14) 1,1-DICHLOROETHENE	2.94	96	7567	2.0537005	ppb		96
15) 1,1,2-TRICHLOROTRIFLUOROET	2.95	101	7684	2.0176059	ppb	#	94
16) ACETONE	3.33	43	29867	19.1995995	ppb		96
17) IODOMETHANE	3.06	142	28074	12.3268998	ppb		97
18) CARBON DISULFIDE	2.99	76	28756	1.9362773	ppb		97
19) METHYLENE CHLORIDE	3.31	84	8927	2.2809432	ppb		95
20) ACRYLONITRILE	3.81	53	16543	16.0620686	ppb		97
21) n-HEXANE	3.44	56	9642	2.2421187	ppb		98
22) TRANS-1,2-DICHLOROETHENE	3.42	96	8828	2.1304279	ppb		97
23) METHYL TERT-BUTYL ETHER	3.45	73	25835	2.9557467	ppb		99
24) 1,1-DICHLOROETHANE	3.78	63	15594	2.0688951	ppb		98
25) VINYL ACETATE	3.88	43	68712	10.8907755	ppb		99
26) DI-ISOPROPYL ETHER	3.66	45	27966	2.1977294	ppb		100
27) 2,2-DICHLOROPROPANE	4.15	77	13801	2.7217246	ppb		94
28) CIS-1,2-DICHLOROETHENE	4.09	96	9435	2.1593196	ppb		96
29) 2-BUTANONE (MEK)	4.40	43	32801	19.7588343	ppb		99
30) BROMOCHLOROMETHANE	4.21	130	4776	2.5921767	ppb		99
31) TETRAHYDROFURAN	4.34	42	3379	3.9284224	ppb	#	85
32) CHLOROFORM	4.23	83	15113	2.2597766	ppb		98
34) 1,1,1-TRICHLOROETHANE	4.38	97	11725	2.0367409	ppb		97
35) CARBON TETRACHLORIDE	4.35	117	9923	1.9264819	ppb		98
36) 1,1-DICHLOROPROPENE	4.44	75	12509	2.1785458	ppb		98
37) 2,2,4-TRIMETHYLPENTANE	4.48	57	50676	2.0295616	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 07.D Vial: 7
Acq On : 11 Oct 2015 8:01 pm Operator: 591
Sample : STD VMS 2 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:16:02 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:15:26 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

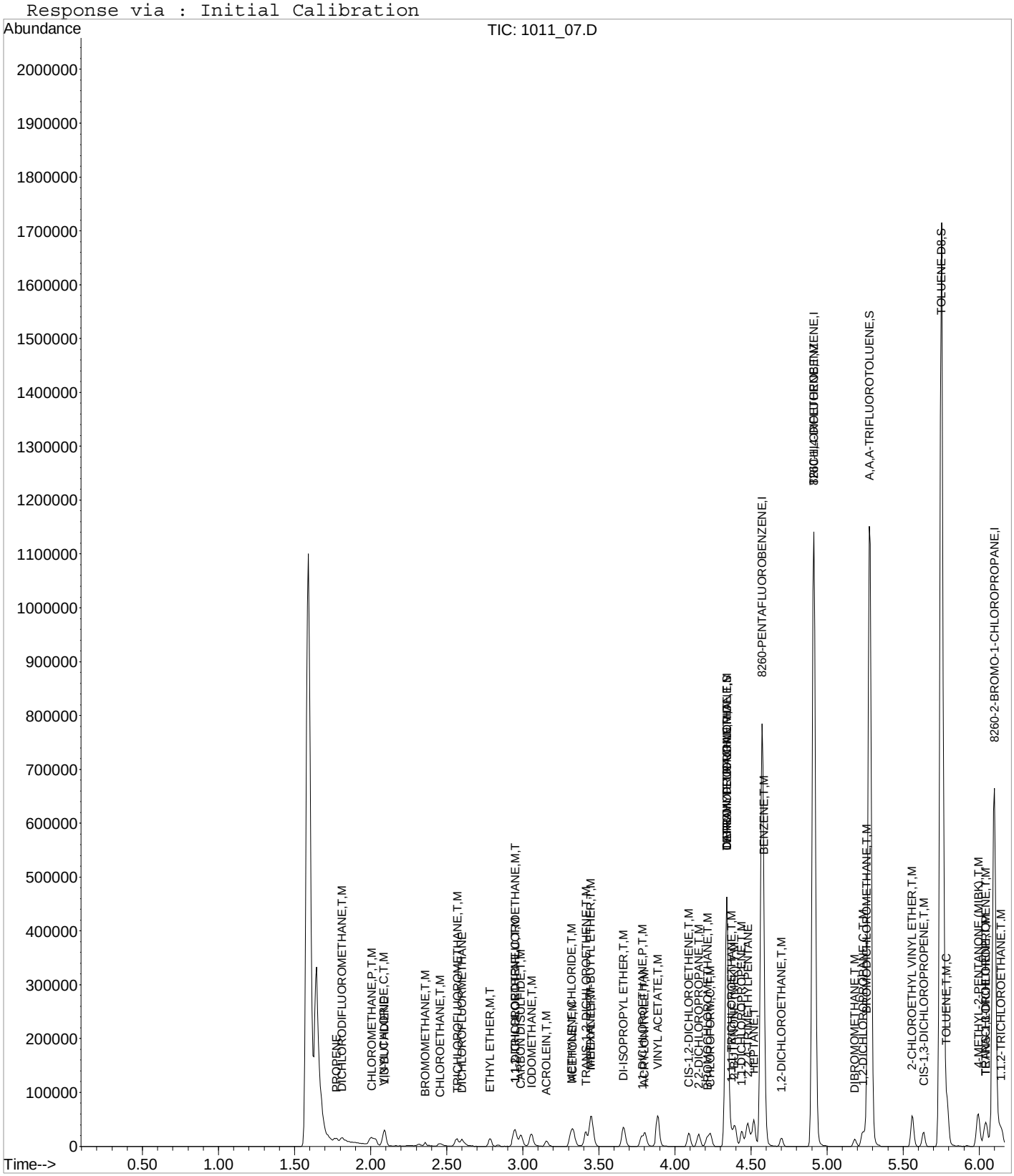
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	HEPTANE	4.52	71	10659	2.0250631	ppb	#	83
39)	BENZENE	4.59	78	39227	2.1994554	ppb	#	87
40)	1,2-DICHLOROETHANE	4.70	62	11233	2.5120223	ppb		95
42)	TRICHLOROETHENE	4.92	130	9109	2.4726389	ppb	#	66
43)	1,2-DICHLOROPROPANE	5.24	62	6931	2.3111741	ppb		97
44)	DIBROMOMETHANE	5.18	93	4336	2.5025026	ppb		92
45)	BROMODICHLOROMETHANE	5.25	83	11229	2.3733842	ppb	#	86
47)	2-CHLOROETHYL VINYL ETHER	5.56	63	22305	39.3517080	ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.64	75	15060	2.5788587	ppb	#	97
49)	4-METHYL-2-PENTANONE (MIBK	6.00	43	42314	16.5218348	ppb		99
51)	TOLUENE	5.79	91	42360	2.3647958	ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	6.04	75	11856	2.4346887	ppb	#	97
54)	1,1,2-TRICHLOROETHANE	6.15	97	7469	2.7126868	ppb		97
55)	TETRACHLOROETHENE	6.05	164	6682	2.3776317	ppb		96
56)	1,3-DICHLOROPROPANE	6.34	76	14789	2.7771902	ppb		99
57)	2-HEXANONE	6.54	58	17096	16.7789422	ppb		99
58)	CHLORODIBROMOMETHANE	6.28	129	7357	2.5514450	ppb		97
59)	1,2-DIBROMOETHANE	6.46	107	6991	2.9093156	ppb		98
60)	CHLOROBENZENE	6.80	112	23215	2.2695557	ppb		97
61)	1,1,1,2-TETRACHLOROETHANE	6.83	133	6631	2.1702442	ppb	#	91
62)	ETHYLBENZENE	6.79	106	13463	2.2854031	ppb		91
63)	M&P-XYLENE	6.89	106	32584	4.3846192	ppb		89
64)	O-XYLENE	7.20	106	15096	2.1662209	ppb		95
65)	STYRENE	7.24	104	24215	2.2691508	ppb		98
66)	BROMOFORM	7.29	173	4348	2.8194192	ppb		93
67)	ISOPROPYLBENZENE	7.42	105	43669	2.3106976	ppb		99
69)	BROMOBENZENE	7.74	77	19575	2.4883766	ppb		97
70)	1,1,2,2-TETRACHLOROETHANE	7.77	83	9940	3.1756674	ppb	#	98
71)	1,2,3-TRICHLOROPROPANE	7.89	110	2636	3.1540327	ppb		93
72)	TRANS-1,4-DICHLORO-2-BUTEN	7.91	53	1708	3.6295439	ppb	#	52
73)	N-PROPYLBENZENE	7.72	91	50510	2.3093473	ppb		98
74)	4-ETHYLTOLUENE	7.80	105	41131	2.1396625	ppb		98
75)	2-CHLOROTOLUENE	7.86	91	32066	2.2176138	ppb		98
76)	4-CHLOROTOLUENE	7.99	91	30391	2.3984413	ppb		95
77)	1,3,5-TRIMETHYLBENZENE	7.85	105	34506	2.2146049	ppb		98
78)	TERT-BUTYLBENZENE	8.11	119	29974	2.3801176	ppb		96
79)	1,2,4-TRIMETHYLBENZENE	8.16	105	31925	2.3085901	ppb		98
80)	SEC-BUTYLBENZENE	8.24	105	46695	2.3831673	ppb		100
81)	1,3-DICHLOROBENZENE	8.45	146	17651	2.5458727	ppb		92
82)	P-ISOPROPYLTOLUENE	8.34	119	33886	2.2303257	ppb		98
83)	DICYCLOPENTADIENE	8.36	66	42061	1.9344158	ppb		98
85)	1,4-DICHLOROBENZENE	8.51	146	18010	2.4000077	ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.50	105	33906	2.2907214	ppb		100
87)	1,2-DICHLOROBENZENE	8.85	146	15896	2.4791332	ppb		97
88)	N-BUTYLBENZENE	8.68	91	30908	2.1580734	ppb		95
89)	1,2-DIBROMO-3-CHLOROPROPAN	9.49	157	1296	2.5145017	ppb	#	91
90)	1,2,4-TRICHLOROBENZENE	10.05	180	8771	2.4909926	ppb		97
91)	HEXACHLORO-1,3-BUTADIENE	10.00	225	5437	2.3087243	ppb		96
92)	NAPHTHALENE	10.33	128	25467	3.1627033	ppb	#	94
93)	1,2,3-TRICHLOROBENZENE	10.48	180	8313	2.6889183	ppb		95
94)	1-METHYLNAPHTHALENE	11.20	142	12188	2.7609603	ppb		97
95)	2-METHYLNAPHTHALENE	11.34	142	13019	3.4546803	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

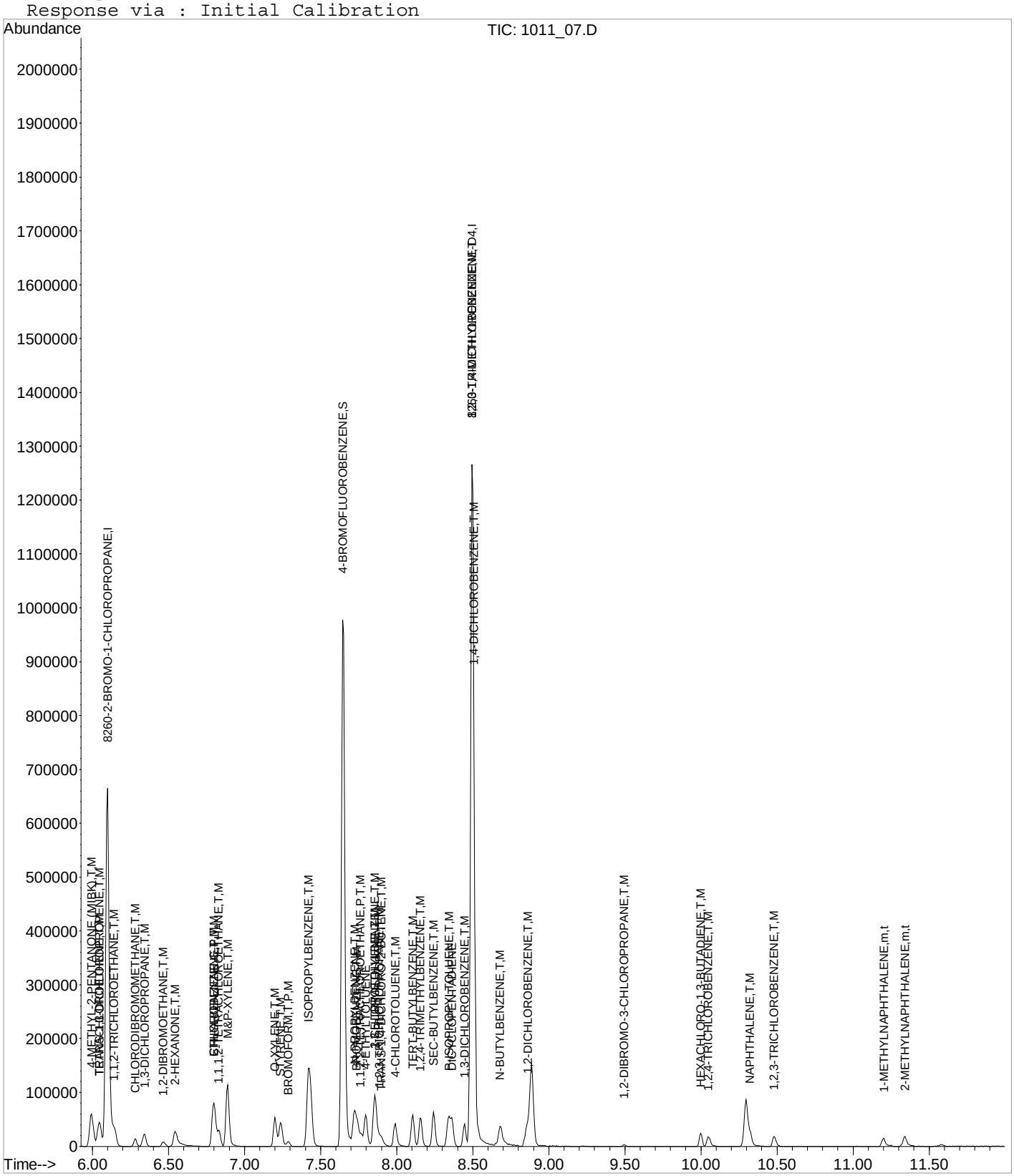
Data File : C:\MSDCHEM\1\DATA\101115\1011 07.D Vial: 7
Acq On : 11 Oct 2015 8:01 pm Operator: 591
Sample : STD VMS 2 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:21 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:20:08 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\101115\1011_07.D Vial: 7
Acq On : 11 Oct 2015 8:01 pm Operator: 591
Sample : STD VMS 2 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:21 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:20:08 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 08.D Vial: 8
Acq On : 11 Oct 2015 8:25 pm Operator: 591
Sample : STD VMS 5 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:21:34 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:21:29 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	430613	40.00	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	793457	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.09	79	120505	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	308859	40.00	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb	-4.56
114) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb	-4.91
122) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00	ppb	-6.09
128) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00	ppb	-8.49
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.34	111	221616	38.8166126	ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 97.04%			
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	441192	43.6464438	ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 109.12%			
50) TOLUENE-D8	5.75	98	979100	40.3876611	ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 100.97%			
68) 4-BROMOFLUOROBENZENE	7.65	95	357279	45.5563486	ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 113.89%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.00	TIC	-2835807m	Below Cal		
3) PROPENE	1.76	41	6053	4.7038733	ppb	96
4) DICHLORODIFLUOROMETHANE	1.81	85	22183	4.9947228	ppb	96
5) CHLOROMETHANE	2.00	50	45975	5.4476188	ppb	98
6) VINYL CHLORIDE	2.08	62	30359	5.1473328	ppb	97
7) 1,3-BUTADIENE	2.09	39	20655	4.9278270	ppb	97
8) BROMOMETHANE	2.35	94	6305	2.3158104	ppb	99
9) CHLOROETHANE	2.45	64	15632	4.9180666	ppb	96
10) TRICHLOROFLUOROMETHANE	2.57	101	31485	5.0235882	ppb	98
11) DICHLOROFLUORMETHANE	2.60	67	41603	5.2485752	ug/l	97
12) ETHYL ETHER	2.78	59	18718	5.9090671	ppb	98
13) ACROLEIN	3.16	56	21392	36.9912612	ppb	99
14) 1,1-DICHLOROETHENE	2.94	96	19162	5.3337545	ppb	98
15) 1,1,2-TRICHLOROTRIFLUOROET	2.96	101	20693	5.3110997	ppb	97
16) ACETONE	3.33	43	70919	33.3578909	ppb	98
17) IODOMETHANE	3.05	142	80614	20.1619680	ppb	97
18) CARBON DISULFIDE	2.99	76	71574	4.9226054	ppb	97
19) METHYLENE CHLORIDE	3.31	84	22311	5.6068421	ppb	94
20) ACRYLONITRILE	3.80	53	43715	35.4105778	ppb	97
21) n-HEXANE	3.45	56	24166	5.5991363	ppb	96
22) TRANS-1,2-DICHLOROETHENE	3.41	96	22131	5.3451380	ppb	97
23) METHYL TERT-BUTYL ETHER	3.45	73	63391	6.3716256	ppb	97
24) 1,1-DICHLOROETHANE	3.78	63	38988	5.0985183	ppb	97
25) VINYL ACETATE	3.89	43	166848	25.1308686	ppb	98
26) DI-ISOPROPYL ETHER	3.66	45	69992	5.2501139	ppb	95
27) 2,2-DICHLOROPROPANE	4.15	77	34500	5.9499058	ppb	98
28) CIS-1,2-DICHLOROETHENE	4.09	96	23565	5.3605667	ppb	96
29) 2-BUTANONE (MEK)	4.40	43	78608	34.7665968	ppb	96
30) BROMOCHLOROMETHANE	4.21	130	12398	6.3581795	ppb	91
31) TETRAHYDROFURAN	4.34	42	8254	6.3839109	ppb	98
32) CHLOROFORM	4.23	83	36393	5.1434444	ppb	97
34) 1,1,1-TRICHLOROETHANE	4.37	97	30411	5.2321212	ppb	99
35) CARBON TETRACHLORIDE	4.34	117	26503	5.2717127	ppb	99
36) 1,1-DICHLOROPROPENE	4.44	75	30127	5.0831880	ppb	98
37) 2,2,4-TRIMETHYLPENTANE	4.48	57	127812	5.0347826	ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 08.D Vial: 8
Acq On : 11 Oct 2015 8:25 pm Operator: 591
Sample : STD VMS 5 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:21:34 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:21:29 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

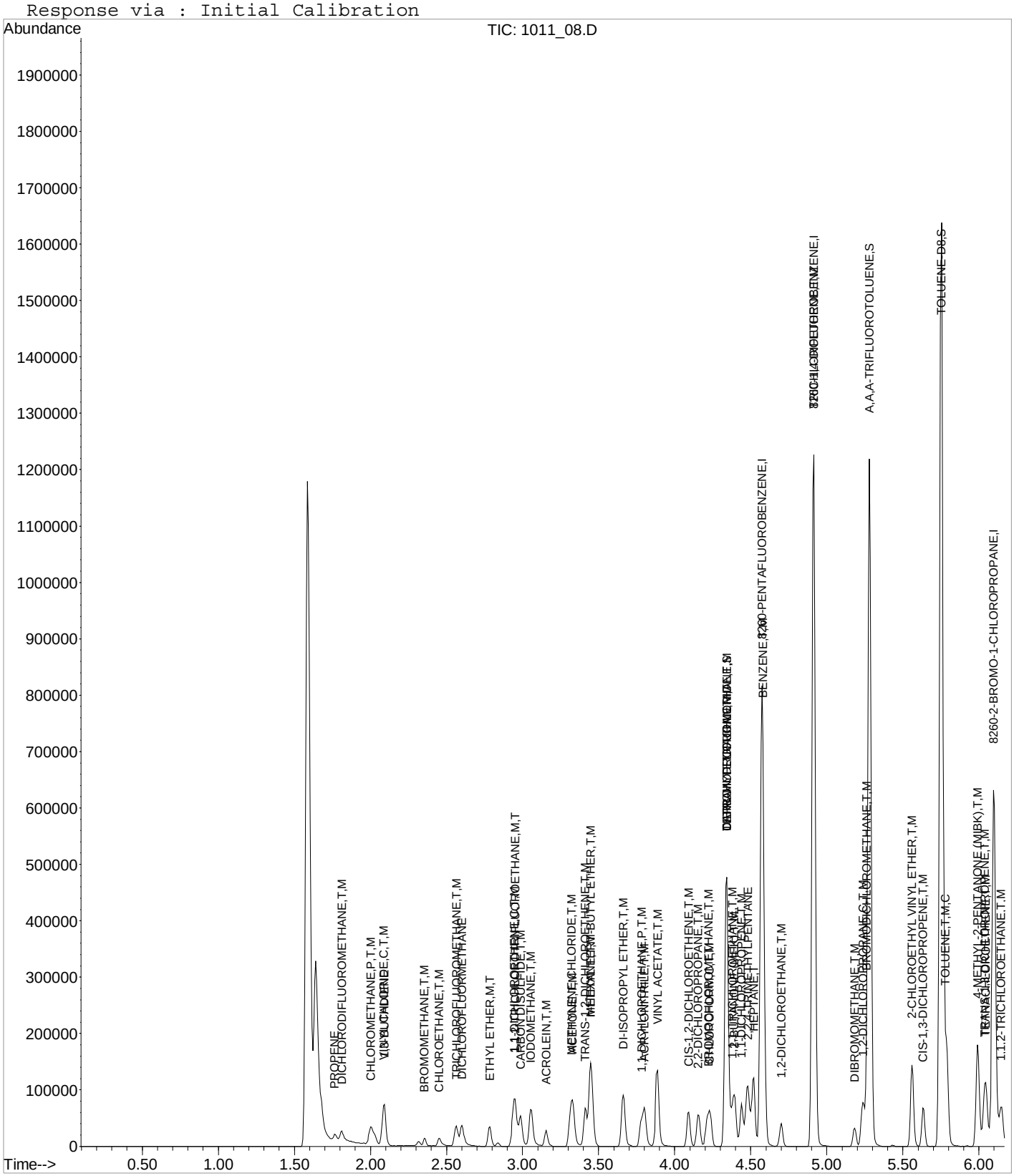
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	HEPTANE	4.52	71	27775	5.3056170	ppb	#	89
39)	BENZENE	4.59	78	97576	5.2901637	ppb		97
40)	1,2-DICHLOROETHANE	4.70	62	26941	5.5822191	ppb		100
42)	TRICHLOROETHENE	4.91	130	23362	5.8769267	ppb	#	66
43)	1,2-DICHLOROPROPANE	5.23	62	17204	5.7647601	ppb		97
44)	DIBROMOMETHANE	5.18	93	11727	6.0467906	ppb		99
45)	BROMODICHLOROMETHANE	5.25	83	27345	5.3705959	ppb		92
47)	2-CHLOROETHYL VINYL ETHER	5.56	63	57098	49.6335722	ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.63	75	36370	5.6918559	ppb		99
49)	4-METHYL-2-PENTANONE (MIBK	5.99	43	110305	35.1104805	ppb		98
51)	TOLUENE	5.78	91	99749	5.0966456	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	6.03	75	30749	5.8196497	ppb		98
54)	1,1,2-TRICHLOROETHANE	6.15	97	18132	6.4947012	ppb		99
55)	TETRACHLOROETHENE	6.05	164	16819	6.3958271	ppb		98
56)	1,3-DICHLOROPROPANE	6.34	76	34424	6.0555475	ppb		100
57)	2-HEXANONE	6.54	58	51881	43.9128820	ppb		99
58)	CHLORODIBROMOMETHANE	6.28	129	17619	6.2605337	ppb		98
59)	1,2-DIBROMOETHANE	6.47	107	17365	6.6005341	ppb		95
60)	CHLOROBENZENE	6.81	112	60452	5.9932085	ppb		98
61)	1,1,1,2-TETRACHLOROETHANE	6.84	133	18219	5.9857433	ppb	#	100
62)	ETHYLBENZENE	6.79	106	34457	6.0959406	ppb		99
63)	M&P-XYLENE	6.89	106	86540	12.0240858	ppb		99
64)	O-XYLENE	7.20	106	39901	6.1711855	ppb		95
65)	STYRENE	7.24	104	61945	5.9303293	ppb		98
66)	BROMOFORM	7.29	173	10262	6.3854085	ppb		97
67)	ISOPROPYLBENZENE	7.41	105	107968	5.7854897	ppb		98
69)	BROMOBENZENE	7.74	77	46416	5.8973299	ppb		98
70)	1,1,2,2-TETRACHLOROETHANE	7.77	83	24690	7.3975769	ppb		98
71)	1,2,3-TRICHLOROPROPANE	7.89	110	7026	7.4056546	ppb		94
72)	TRANS-1,4-DICHLORO-2-BUTEN	7.91	53	6174	8.3114500	ppb	#	65
73)	N-PROPYLBENZENE	7.72	91	122149	5.6636232	ppb		99
74)	4-ETHYLTOLUENE	7.80	105	102408	5.4574565	ppb		98
75)	2-CHLOROTOLUENE	7.86	91	81566	5.7071323	ppb		99
76)	4-CHLOROTOLUENE	7.99	91	73738	5.7786137	ppb		98
77)	1,3,5-TRIMETHYLBENZENE	7.85	105	85930	5.8190576	ppb		98
78)	TERT-BUTYLBENZENE	8.11	119	73161	5.8901339	ppb		97
79)	1,2,4-TRIMETHYLBENZENE	8.16	105	79895	5.7779787	ppb		100
80)	SEC-BUTYLBENZENE	8.24	105	114997	5.8680327	ppb		97
81)	1,3-DICHLOROBENZENE	8.44	146	45153	6.2743921	ppb		97
82)	P-ISOPROPYLTOLUENE	8.34	119	90535	6.0555808	ppb		98
83)	DICYCLOPENTADIENE	8.36	66	100991	5.1024592	ppb		97
85)	1,4-DICHLOROBENZENE	8.51	146	46377	5.7691424	ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.50	105	85439	5.6186690	ppb		99
87)	1,2-DICHLOROBENZENE	8.85	146	39916	6.0227094	ppb		100
88)	N-BUTYLBENZENE	8.67	91	77910	5.6391264	ppb		98
89)	1,2-DIBROMO-3-CHLOROPROPAN	9.49	157	3919	8.0721258	ppb		94
90)	1,2,4-TRICHLOROBENZENE	10.05	180	21817	6.2112364	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	10.00	225	13753	5.7093286	ppb		95
92)	NAPHTHALENE	10.32	128	61718	6.7895356	ppb		96
93)	1,2,3-TRICHLOROBENZENE	10.48	180	23162	7.1347121	ppb		96
94)	1-METHYLNAPHTHALENE	11.19	142	31760	6.8733529	ppb		99
95)	2-METHYLNAPHTHALENE	11.34	142	34834	7.5783631	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

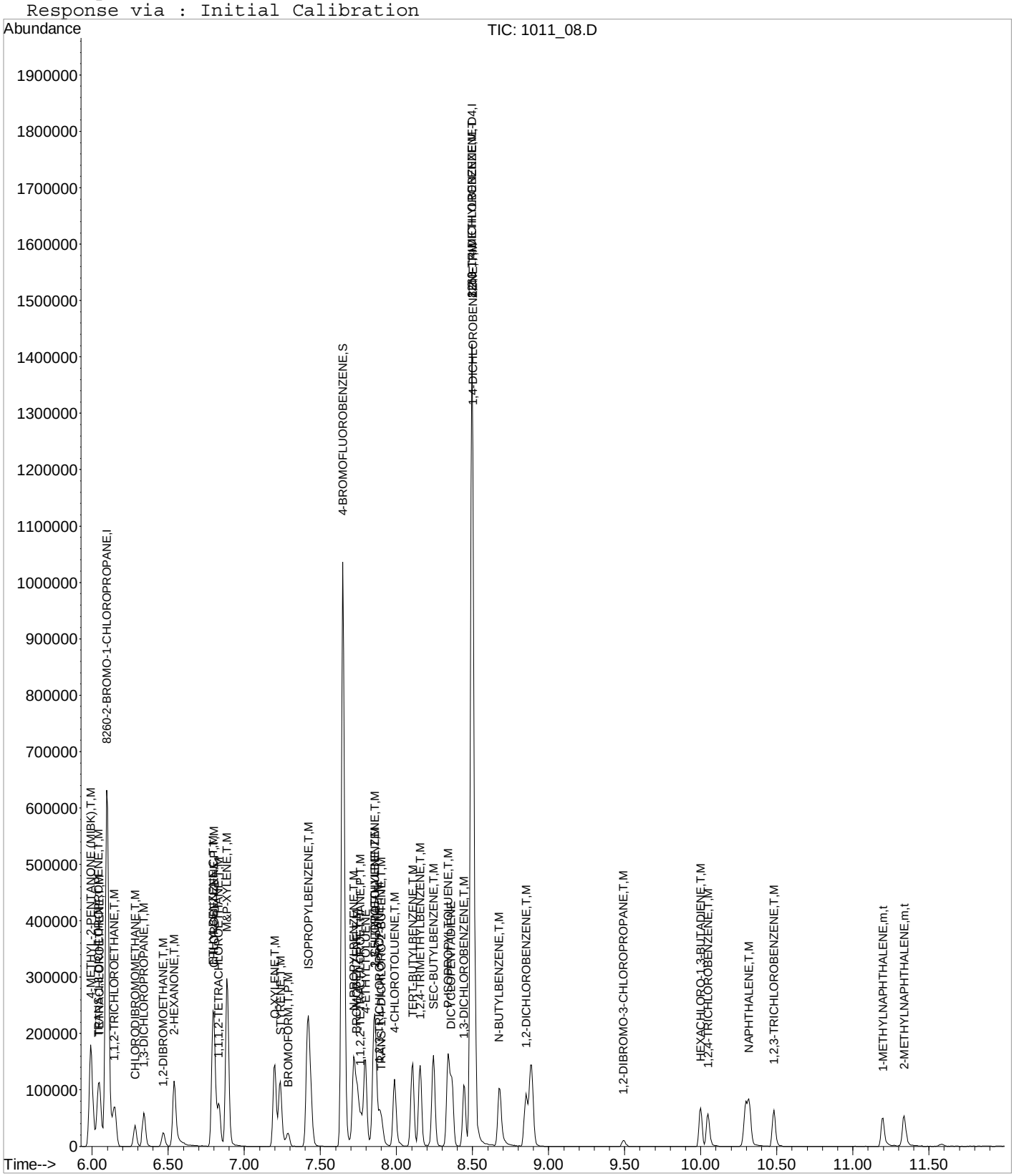
Data File : C:\MSDCHEM\1\DATA\101115\1011 08.D Vial: 8
Acq On : 11 Oct 2015 8:25 pm Operator: 591
Sample : STD VMS 5 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:22 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:21:29 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\101115\1011_08.D Vial: 8
Acq On : 11 Oct 2015 8:25 pm Operator: 591
Sample : STD VMS 5 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:22 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:21:29 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 09.D Vial: 9
Acq On : 11 Oct 2015 8:49 pm Operator: 591
Sample : STD VMS 10 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:23:11 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:22:46 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	424020	40.00	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	779314	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	128442	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	326643	40.00	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb	-4.56
114) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb	-4.91
122) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00	ppb	-6.09
128) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00	ppb	-8.49
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.34	111	230493	41.4794709	ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 103.70%			
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	439216	44.3627706	ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 110.91%			
50) TOLUENE-D8	5.75	98	1040842	44.1239741	ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 110.31%			
68) 4-BROMOFLUOROBENZENE	7.65	95	369510	43.8772390	ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 109.69%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.00	TIC	-1348884m	0.9307626	ppm	
3) PROPENE	1.76	41	12750	9.9647932	ppb	96
4) DICHLORODIFLUOROMETHANE	1.81	85	45218	10.4337750	ppb	99
5) CHLOROMETHANE	2.01	50	79530	9.2576551	ppb	99
6) VINYL CHLORIDE	2.07	62	61232	10.6615350	ppb	98
7) 1,3-BUTADIENE	2.09	39	43824	10.7616578	ppb	98
8) BROMOMETHANE	2.35	94	13387	5.3430276	ppb	97
9) CHLOROETHANE	2.45	64	28374	9.2952772	ppb #	95
10) TRICHLOROFLUOROMETHANE	2.56	101	62241	10.2151598	ppb	97
11) DICHLOROFLUORMETHANE	2.60	67	86208	11.0264146	ug/l	100
12) ETHYL ETHER	2.79	59	39484	12.2397319	ppb	98
13) ACROLEIN	3.16	56	46796	76.4007657	ppb	100
14) 1,1-DICHLOROETHENE	2.94	96	41546	11.6931656	ppb	93
15) 1,1,2-TRICHLOROTRIFLUOROET	2.95	101	41855	10.7944051	ppb	96
16) ACETONE	3.33	43	146723	66.0789005	ppb	98
17) IODOMETHANE	3.05	142	195586	47.4129559	ppb	99
18) CARBON DISULFIDE	2.99	76	147558	10.2842545	ppb	98
19) METHYLENE CHLORIDE	3.32	84	46194	11.6270509	ppb	95
20) ACRYLONITRILE	3.80	53	92123	72.0376785	ppb	99
21) n-HEXANE	3.44	56	50256	11.6763389	ppb	97
22) TRANS-1,2-DICHLOROETHENE	3.41	96	46467	11.3273987	ppb	96
23) METHYL TERT-BUTYL ETHER	3.46	73	132330	13.0483110	ppb	99
24) 1,1-DICHLOROETHANE	3.78	63	83408	11.1648202	ppb	98
25) VINYL ACETATE	3.88	43	385468	59.0478905	ppb	98
26) DI-ISOPROPYL ETHER	3.66	45	145025	10.9924448	ppb	100
27) 2,2-DICHLOROPROPANE	4.15	77	71870	12.2829408	ppb	99
28) CIS-1,2-DICHLOROETHENE	4.09	96	50046	11.5592407	ppb	100
29) 2-BUTANONE (MEK)	4.39	43	168021	71.4789494	ppb	100
30) BROMOCHLOROMETHANE	4.21	130	24792	12.6650317	ppb	96
31) TETRAHYDROFURAN	4.34	42	17201	12.7666876	ppb	94
32) CHLOROFORM	4.23	83	75159	10.7799201	ppb	99
34) 1,1,1-TRICHLOROETHANE	4.37	97	63166	11.0782685	ppb	100
35) CARBON TETRACHLORIDE	4.34	117	54677	11.0995514	ppb	98
36) 1,1-DICHLOROPROPENE	4.44	75	64051	11.0270419	ppb	98
37) 2,2,4-TRIMETHYLPENTANE	4.48	57	267008	10.7483447	ppb	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 09.D Vial: 9
Acq On : 11 Oct 2015 8:49 pm Operator: 591
Sample : STD VMS 10 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:23:11 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:22:46 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

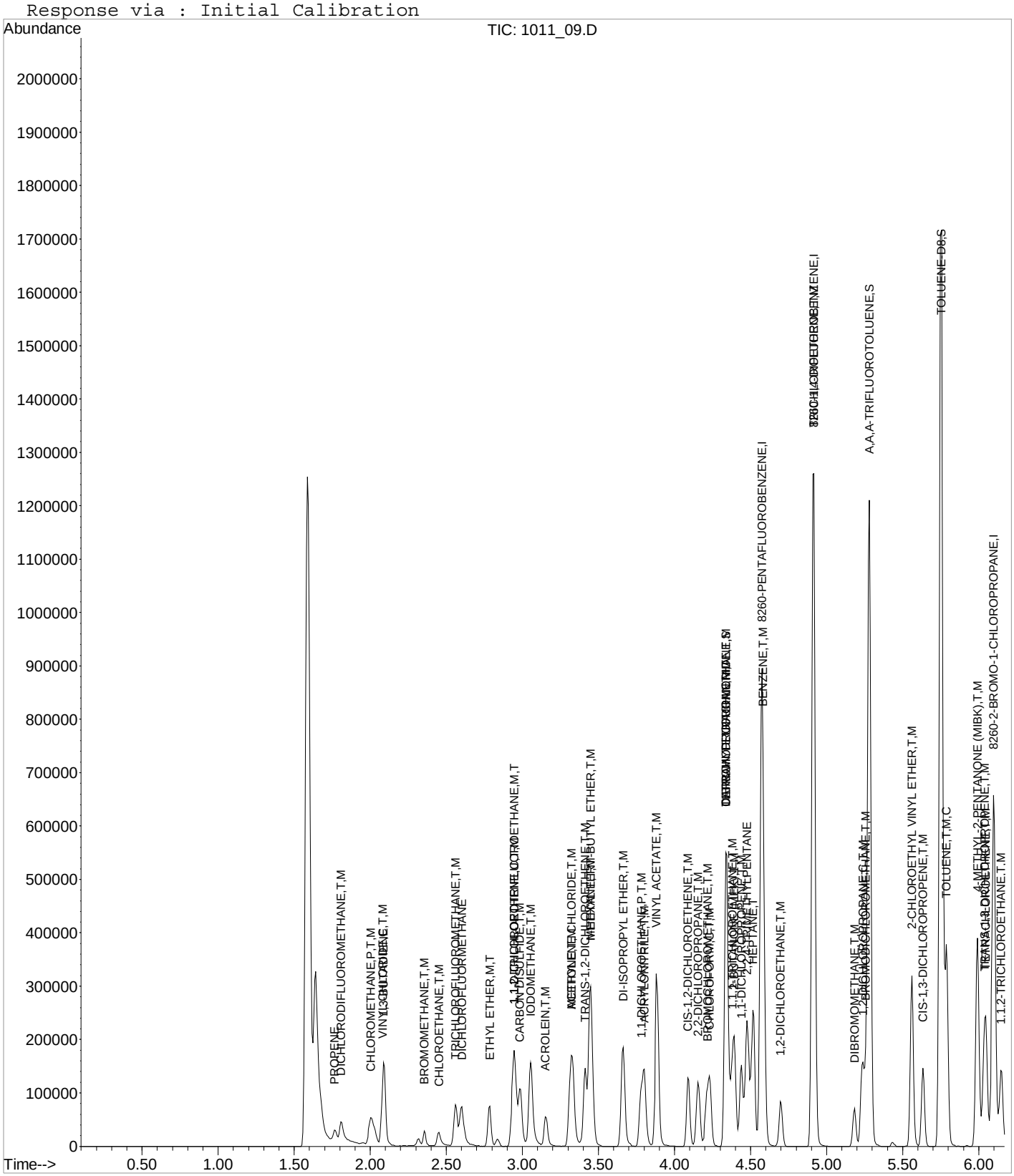
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	HEPTANE	4.52	71	60217	11.7167684	ppb	#	97
39)	BENZENE	4.59	78	195147	10.6997666	ppb		99
40)	1,2-DICHLOROETHANE	4.70	62	56045	11.6429058	ppb		97
42)	TRICHLOROETHENE	4.92	130	48747	12.3153441	ppb	#	66
43)	1,2-DICHLOROPROPANE	5.23	62	34688	11.7396412	ppb		95
44)	DIBROMOMETHANE	5.18	93	24590	12.6323887	ppb		98
45)	BROMODICHLOROMETHANE	5.25	83	58466	11.5320140	ppb		98
47)	2-CHLOROETHYL VINYL ETHER	5.56	63	123028	94.5455668	ppb		100
48)	CIS-1,3-DICHLOROPROPENE	5.63	75	74822	11.7249331	ppb		99
49)	4-METHYL-2-PENTANONE (MIBK	5.99	43	234686	72.0213009	ppb		100
51)	TOLUENE	5.79	91	221770	11.4626177	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	6.03	75	66074	12.4271798	ppb		98
54)	1,1,2-TRICHLOROETHANE	6.15	97	38958	12.6510523	ppb		96
55)	TETRACHLOROETHENE	6.05	164	33628	11.6549596	ppb		89
56)	1,3-DICHLOROPROPANE	6.34	76	71014	11.2904591	ppb		100
57)	2-HEXANONE	6.53	58	123125	95.2372016	ppb		99
58)	CHLORODIBROMOMETHANE	6.28	129	38178	12.2857480	ppb		97
59)	1,2-DIBROMOETHANE	6.47	107	37570	12.7407631	ppb		97
60)	CHLOROBENZENE	6.80	112	127759	11.6267542	ppb		97
61)	1,1,1,2-TETRACHLOROETHANE	6.83	133	37172	11.1427714	ppb	#	93
62)	ETHYLBENZENE	6.79	106	69028	11.1701595	ppb		100
63)	M&P-XYLENE	6.89	106	184095	23.4611410	ppb		99
64)	O-XYLENE	7.20	106	82240	11.6246878	ppb		96
65)	STYRENE	7.23	104	135630	11.8786203	ppb		89
66)	BROMOFORM	7.28	173	23108	12.8454164	ppb		99
67)	ISOPROPYLBENZENE	7.42	105	225890	11.0893483	ppb		99
69)	BROMOBENZENE	7.74	77	97589	11.3864834	ppb		97
70)	1,1,2,2-TETRACHLOROETHANE	7.76	83	54124	14.2748978	ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.89	110	15992	15.9985260	ppb		85
72)	TRANS-1,4-DICHLORO-2-BUTEN	7.90	53	13766	16.2209794	ppb		89
73)	N-PROPYLBENZENE	7.72	91	269275	11.4630462	ppb		97
74)	4-ETHYLTOLUENE	7.79	105	216612	10.6730065	ppb		100
75)	2-CHLOROTOLUENE	7.86	91	171275	10.9807459	ppb		99
76)	4-CHLOROTOLUENE	7.98	91	156077	11.1762710	ppb		100
77)	1,3,5-TRIMETHYLBENZENE	7.85	105	186323	11.5679579	ppb		97
78)	TERT-BUTYLBENZENE	8.10	119	151675	11.1569885	ppb		95
79)	1,2,4-TRIMETHYLBENZENE	8.16	105	177541	11.7279130	ppb		99
80)	SEC-BUTYLBENZENE	8.24	105	240116	11.1824737	ppb		100
81)	1,3-DICHLOROBENZENE	8.44	146	91250	11.5029656	ppb		98
82)	P-ISOPROPYLTOLUENE	8.34	119	197176	12.0240805	ppb		98
83)	DICYCLOPENTADIENE	8.36	66	219814	10.3957445	ppb		99
85)	1,4-DICHLOROBENZENE	8.51	146	94207	10.9118052	ppb	#	1
86)	1,2,3-TRIMETHYLBENZENE	8.50	105	173702	10.6776840	ppb		98
87)	1,2-DICHLOROBENZENE	8.85	146	85257	11.9715274	ppb		99
88)	N-BUTYLBENZENE	8.67	91	173985	11.8047319	ppb		98
89)	1,2-DIBROMO-3-CHLOROPROPAN	9.49	157	9083	16.1683639	ppb		98
90)	1,2,4-TRICHLOROBENZENE	10.04	180	51375	13.4604274	ppb		97
91)	HEXACHLORO-1,3-BUTADIENE	10.00	225	27578	10.6680129	ppb		99
92)	NAPHTHALENE	10.32	128	134107	13.3208938	ppb		100
93)	1,2,3-TRICHLOROBENZENE	10.48	180	48131	13.4177124	ppb		97
94)	1-METHYLNAPHTHALENE	11.19	142	74934	14.4881400	ppb		97
95)	2-METHYLNAPHTHALENE	11.34	142	76634	14.7679284	ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

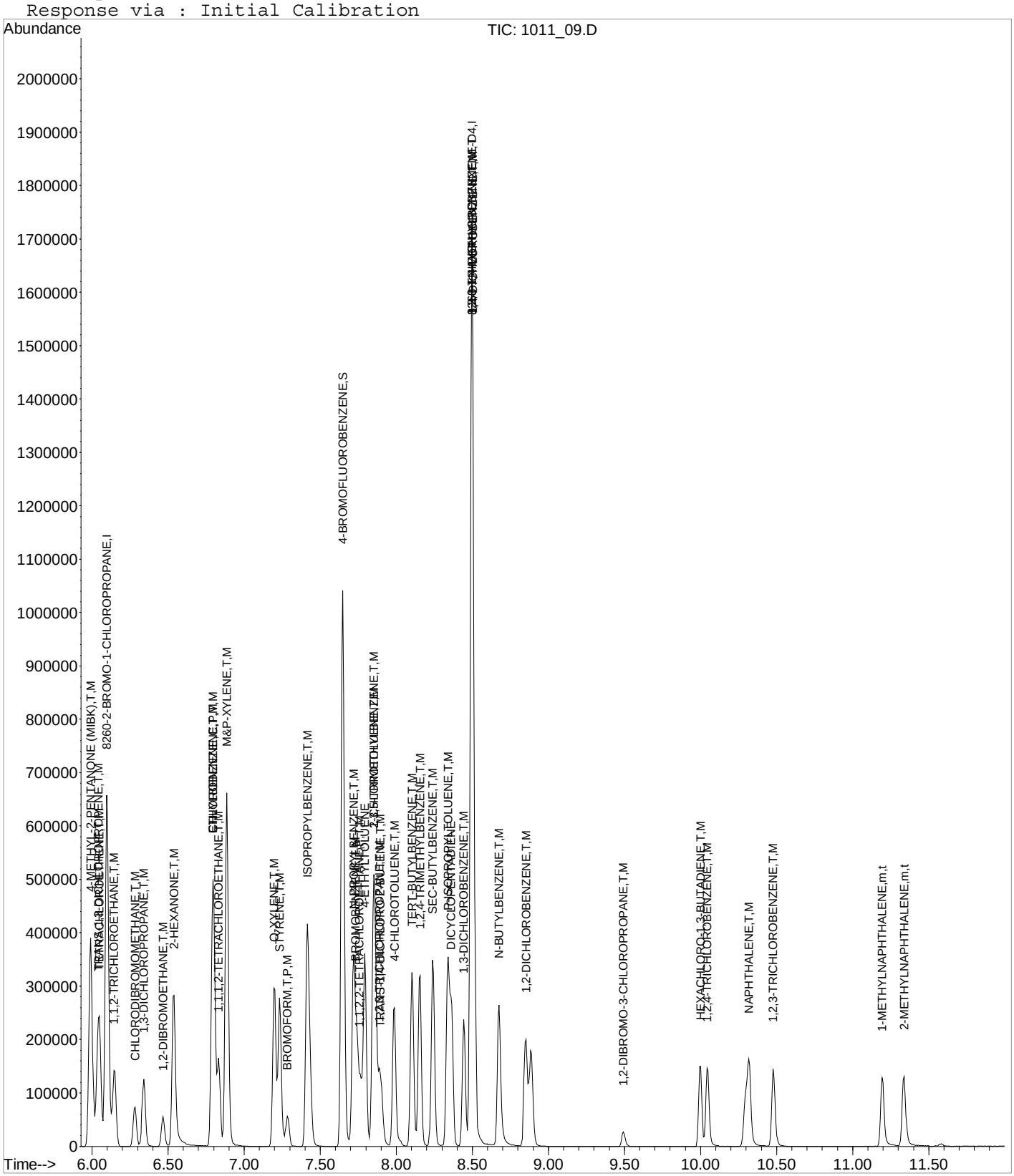
Data File : C:\MSDCHEM\1\DATA\101115\1011 09.D Vial: 9
Acq On : 11 Oct 2015 8:49 pm Operator: 591
Sample : STD VMS 10 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:24 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:22:46 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\101115\1011_09.D Vial: 9
Acq On : 11 Oct 2015 8:49 pm Operator: 591
Sample : STD VMS 10 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:24 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:22:46 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 10.D Vial: 10
Acq On : 11 Oct 2015 9:13 pm Operator: 591
Sample : MSTD VMS 25 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:24:23 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:24:17 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	428315	40.00	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	781821	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	125658	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	324047	40.00	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb	-4.56
114) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb	-4.91
122) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00	ppb	-6.09
128) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00	ppb	-8.49
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.34	111	237089	42.6643811	ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 106.66%			
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	447070	45.1540754	ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 112.89%			
50) TOLUENE-D8	5.75	98	1014442	43.0106734	ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 107.53%			
68) 4-BROMOFLUOROBENZENE	7.65	95	375742	45.3866666	ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 113.47%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.00	TIC	1966012m	12.1248408	ppm	
3) PROPENE	1.76	41	31350	24.1773511	ppb	100
4) DICHLORODIFLUOROMETHANE	1.81	85	106279	24.5913435	ppb	100
5) CHLOROMETHANE	2.01	50	166625	18.8355342	ppb	100
6) VINYL CHLORIDE	2.07	62	152483	26.5511095	ppb	100
7) 1,3-BUTADIENE	2.09	39	98102	24.1971860	ppb	100
8) BROMOMETHANE	2.35	94	30202	12.7998042	ppb	100
9) CHLOROETHANE	2.45	64	56573	19.1609546	ppb	100
10) TRICHLOROFLUOROMETHANE	2.56	101	147599	24.3786148	ppb	100
11) DICHLOROFLUORMETHANE	2.60	67	203680	25.9281411	ug/l	100
12) ETHYL ETHER	2.78	59	93967	28.1515365	ppb	100
13) ACROLEIN	3.15	56	123090	186.4986855	ppb	100
14) 1,1-DICHLOROETHENE	2.94	96	99905	27.7487276	ppb	100
15) 1,1,2-TRICHLOROTRIFLUOROET	2.95	101	97632	24.9302487	ppb	100
16) ACETONE	3.33	43	344603	146.0951575	ppb	99
17) IODOMETHANE	3.05	142	557327	130.7181237	ppb	100
18) CARBON DISULFIDE	2.99	76	373074	26.0226045	ppb	100
19) METHYLENE CHLORIDE	3.31	84	106045	26.2326230	ppb	100
20) ACRYLONITRILE	3.80	53	219378	161.5271441	ppb	100
21) n-HEXANE	3.44	56	118789	27.3039793	ppb	100
22) TRANS-1,2-DICHLOROETHENE	3.41	96	113629	27.3720552	ppb	100
23) METHYL TERT-BUTYL ETHER	3.45	73	321329	30.4320430	ppb	100
24) 1,1-DICHLOROETHANE	3.78	63	202820	26.8611901	ppb	100
25) VINYL ACETATE	3.88	43	888132	133.3600723	ppb	100
26) DI-ISOPROPYL ETHER	3.66	45	350843	26.4083068	ppb	100
27) 2,2-DICHLOROPROPANE	4.15	77	170799	28.1083288	ppb	100
28) CIS-1,2-DICHLOROETHENE	4.09	96	120199	27.2800715	ppb	100
29) 2-BUTANONE (MEK)	4.39	43	412727	163.5151466	ppb	100
30) BROMOCHLOROMETHANE	4.21	130	57344	28.4651165	ppb	100
31) TETRAHYDROFURAN	4.34	42	41532	28.9126856	ppb	100
32) CHLOROFORM	4.23	83	180219	25.6131719	ppb	100
34) 1,1,1-TRICHLOROETHANE	4.37	97	147816	25.6367805	ppb	100
35) CARBON TETRACHLORIDE	4.34	117	131249	26.4330798	ppb	100
36) 1,1-DICHLOROPROPENE	4.44	75	154251	26.3724651	ppb	100
37) 2,2,4-TRIMETHYLPENTANE	4.48	57	659777	26.3946063	ppb	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 10.D Vial: 10
Acq On : 11 Oct 2015 9:13 pm Operator: 591
Sample : MSTD VMS 25 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:24:23 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:24:17 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

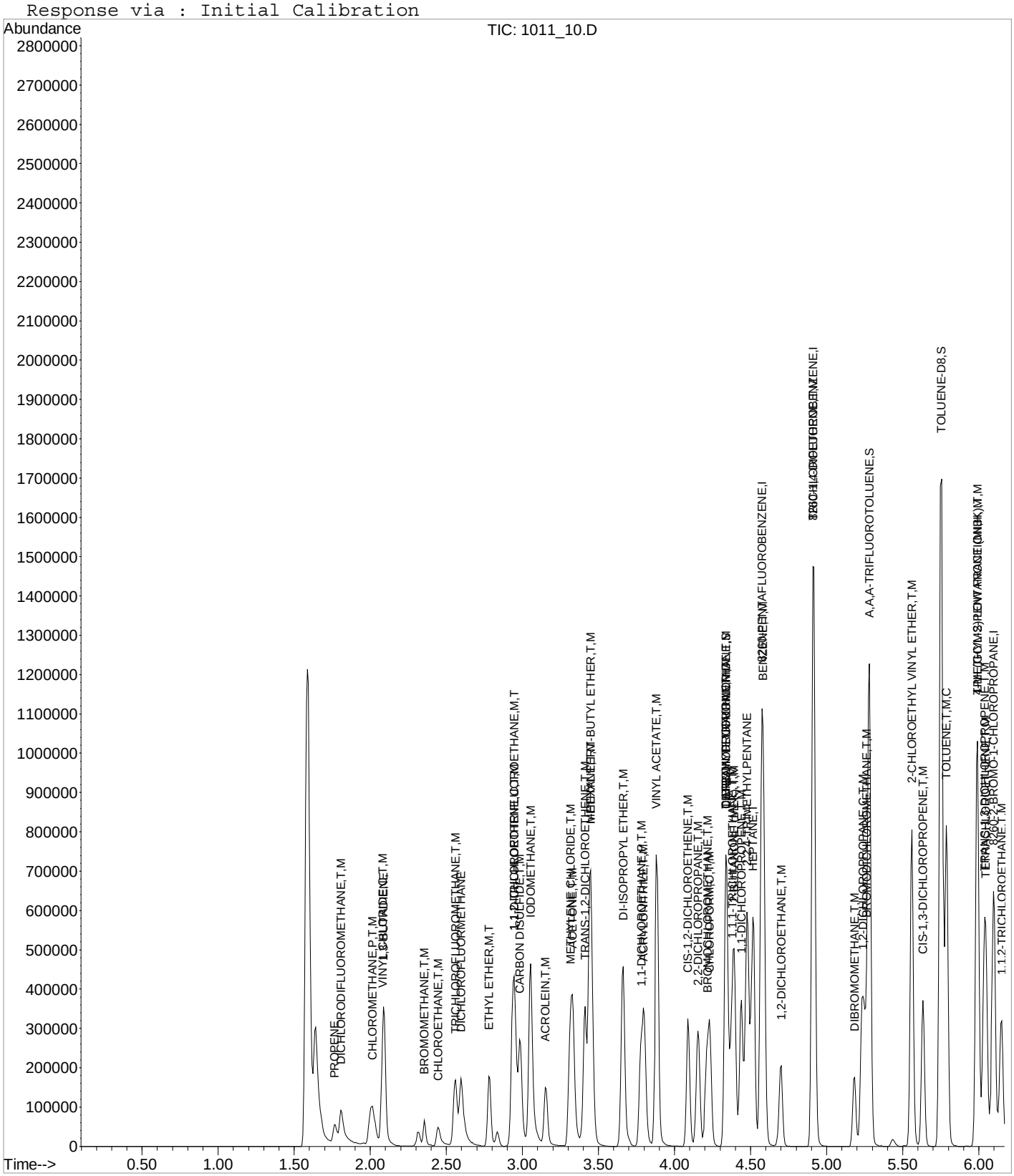
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	HEPTANE	4.52	71	141594	27.2934386	ppb	#	100
39)	BENZENE	4.59	78	467213	25.4416491	ppb		100
40)	1,2-DICHLOROETHANE	4.70	62	140003	28.3739917	ppb		100
42)	TRICHLOROETHENE	4.92	130	114122	28.1616369	ppb	#	100
43)	1,2-DICHLOROPROPANE	5.23	62	87231	29.1719577	ppb		100
44)	DIBROMOMETHANE	5.18	93	60171	29.8099494	ppb		100
45)	BROMODICHLOROMETHANE	5.26	83	144418	27.9953506	ppb		100
47)	2-CHLOROETHYL VINYL ETHER	5.56	63	319045	213.5831532	ppb		100
48)	CIS-1,3-DICHLOROPROPENE	5.63	75	191721	29.4016554	ppb		100
49)	4-METHYL-2-PENTANONE (MIBK	5.99	43	618258	179.0953494	ppb		100
51)	TOLUENE	5.78	91	500238	25.3317837	ppb		100
52)	TRANS-1,3-DICHLOROPROPENE	6.03	75	169783	30.9505631	ppb		100
54)	1,1,2-TRICHLOROETHANE	6.15	97	93134	30.0111945	ppb		100
55)	TETRACHLOROETHENE	6.05	164	84554	29.5477803	ppb		100
56)	1,3-DICHLOROPROPANE	6.34	76	181415	28.7589082	ppb		100
57)	2-HEXANONE	6.53	58	309475	240.1036968	ppb		100
58)	CHLORODIBROMOMETHANE	6.28	129	98237	31.4857047	ppb		100
59)	1,2-DIBROMOETHANE	6.47	107	95080	31.7267196	ppb		100
60)	CHLOROBENZENE	6.80	112	309602	28.4422440	ppb		100
61)	1,1,1,2-TETRACHLOROETHANE	6.83	133	94297	28.5453251	ppb		100
62)	ETHYLBENZENE	6.79	106	171407	27.9587755	ppb		100
63)	M&P-XYLENE	6.89	106	434537	55.8559914	ppb		100
64)	O-XYLENE	7.20	106	206485	29.5701222	ppb		100
65)	STYRENE	7.23	104	336903	29.5699919	ppb		100
66)	BROMOFORM	7.28	173	59001	32.0251493	ppb		100
67)	ISOPROPYLBENZENE	7.42	105	543644	26.8688185	ppb		100
69)	BROMOBENZENE	7.74	77	235582	27.6380884	ppb		100
70)	1,1,2,2-TETRACHLOROETHANE	7.76	83	131868	33.6568633	ppb		100
71)	1,2,3-TRICHLOROPROPANE	7.89	110	38762	40.2950603	ppb		100
72)	TRANS-1,4-DICHLORO-2-BUTEN	7.90	53	38717	44.5150175	ppb		100
73)	N-PROPYLBENZENE	7.72	91	665655	28.3852712	ppb		100
74)	4-ETHYLTOLUENE	7.79	105	531425	26.5754634	ppb		100
75)	2-CHLOROTOLUENE	7.86	91	420085	27.1931147	ppb		100
76)	4-CHLOROTOLUENE	7.98	91	377122	27.1795628	ppb		100
77)	1,3,5-TRIMETHYLBENZENE	7.85	105	436760	27.2032931	ppb		100
78)	TERT-BUTYLBENZENE	8.10	119	394962	29.2891266	ppb		100
79)	1,2,4-TRIMETHYLBENZENE	8.16	105	433206	28.6297148	ppb		100
80)	SEC-BUTYLBENZENE	8.24	105	603415	28.2440231	ppb		100
81)	1,3-DICHLOROBENZENE	8.44	146	219905	27.6843827	ppb		100
82)	P-ISOPROPYLTOLUENE	8.34	119	498871	30.4332659	ppb		100
83)	DICYCLOPENTADIENE	8.36	66	558895	27.2744077	ppb		100
85)	1,4-DICHLOROBENZENE	8.51	146	227153	26.0177447	ppb		100
86)	1,2,3-TRIMETHYLBENZENE	8.50	105	442708	27.0893056	ppb		100
87)	1,2-DICHLOROBENZENE	8.85	146	207438	28.8072791	ppb		100
88)	N-BUTYLBENZENE	8.67	91	440395	29.7509459	ppb		100
89)	1,2-DIBROMO-3-CHLOROPROPAN	9.49	157	25285	41.5593734	ppb		100
90)	1,2,4-TRICHLOROBENZENE	10.04	180	129824	33.1051998	ppb		100
91)	HEXACHLORO-1,3-BUTADIENE	10.00	225	68795	26.4646652	ppb		100
92)	NAPHTHALENE	10.32	128	354241	33.7599500	ppb		100
93)	1,2,3-TRICHLOROBENZENE	10.48	180	121906	32.8648837	ppb		100
94)	1-METHYLNAPHTHALENE	11.19	142	190386	34.8608783	ppb		100
95)	2-METHYLNAPHTHALENE	11.34	142	183791	33.3346366	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

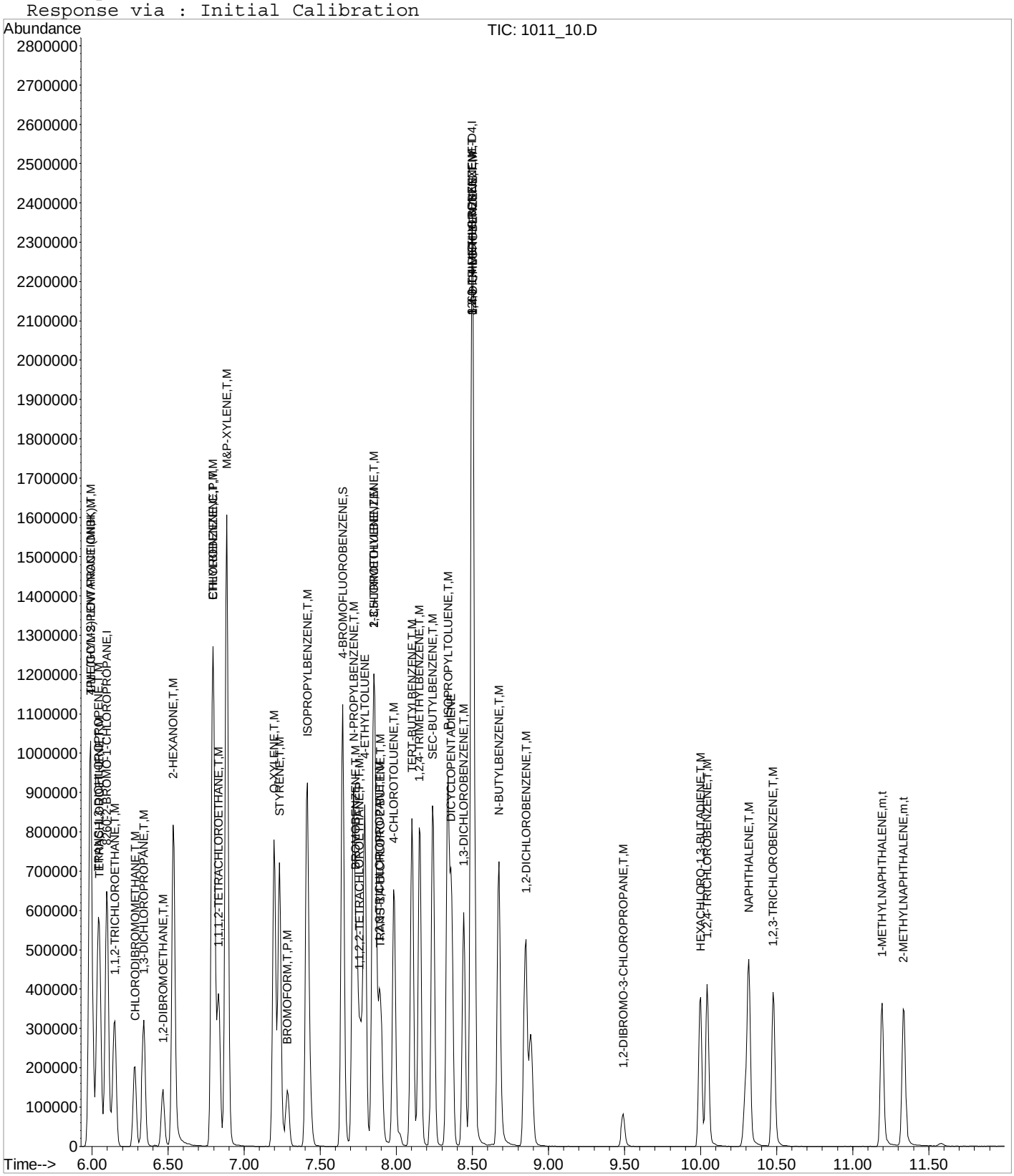
Data File : C:\MSDCHEM\1\DATA\101115\1011 10.D Vial: 10
Acq On : 11 Oct 2015 9:13 pm Operator: 591
Sample : MSTD VMS 25 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:24 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:24:17 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\101115\1011_10.D Vial: 10
Acq On : 11 Oct 2015 9:13 pm Operator: 591
Sample : MSTD VMS 25 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:24 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:24:17 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 11.D Vial: 11
Acq On : 11 Oct 2015 9:37 pm Operator: 591
Sample : STD VMS 40 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:24:49 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:24:41 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	421099	40.00 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	755393	40.00 ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	131743	40.00 ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	320383	40.00 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00 ppb	-4.56
114) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00 ppb	-4.91
122) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00 ppb	-6.09
128) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00 ppb	-8.49
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.34	111	244915	44.8279113 ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 112.07%		
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	453385	47.3939547 ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 118.48%#		
50) TOLUENE-D8	5.75	98	1108349	48.6362330 ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 121.59%#		
68) 4-BROMOFLUOROBENZENE	7.65	95	394048	45.3994160 ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 113.50%		
Target Compounds					Qvalue
2) TPH (GC/MS) LOW FRACTION	6.00	TIC	6188460m	19.9460095 ppm	
3) PROPENE	1.77	41	51468	40.3726763 ppb	99
4) DICHLORODIFLUOROMETHANE	1.81	85	175224	41.2389369 ppb	100
5) CHLOROMETHANE	2.01	50	254714	29.2866482 ppb	100
6) VINYL CHLORIDE	2.08	62	246206	43.6052672 ppb	100
7) 1,3-BUTADIENE	2.09	39	164356	41.2336365 ppb	99
8) BROMOMETHANE	2.36	94	46813	20.1796286 ppb	98
9) CHLOROETHANE	2.45	64	80721	27.8082424 ppb #	95
10) TRICHLOROFLUOROMETHANE	2.56	101	219542	36.8826655 ppb	99
11) DICHLOROFLUORMETHANE	2.60	67	331982	42.9849678 ug/l	100
12) ETHYL ETHER	2.79	59	154605	47.1117624 ppb	99
13) ACROLEIN	3.16	56	193612	298.3763167 ppb	100
14) 1,1-DICHLOROETHENE	2.94	96	158438	44.7604326 ppb	97
15) 1,1,2-TRICHLOROTRIFLUOROET	2.95	101	165613	43.0138111 ppb	98
16) ACETONE	3.33	43	539797	232.7696254 ppb	100
17) IODOMETHANE	3.05	142	967478	229.8758635 ppb	99
18) CARBON DISULFIDE	2.99	76	603206	42.7957364 ppb	99
19) METHYLENE CHLORIDE	3.31	84	174158	43.8201665 ppb	99
20) ACRYLONITRILE	3.80	53	358078	268.1693596 ppb	99
21) n-HEXANE	3.44	56	193352	45.2040620 ppb	99
22) TRANS-1,2-DICHLOROETHENE	3.41	96	187484	45.9368814 ppb	100
23) METHYL TERT-BUTYL ETHER	3.46	73	532404	51.2863239 ppb	98
24) 1,1-DICHLOROETHANE	3.78	63	341200	45.9623863 ppb	97
25) VINYL ACETATE	3.89	43	1447526	221.0821864 ppb	99
26) DI-ISOPROPYL ETHER	3.66	45	596785	45.6903741 ppb	100
27) 2,2-DICHLOROPROPANE	4.15	77	280027	46.8736403 ppb	99
28) CIS-1,2-DICHLOROETHENE	4.09	96	192658	44.4744690 ppb	95
29) 2-BUTANONE (MEK)	4.40	43	640021	257.9101329 ppb	99
30) BROMOCHLOROMETHANE	4.21	130	90406	45.6458512 ppb	96
31) TETRAHYDROFURAN	4.34	42	65244	46.1982199 ppb	97
32) CHLOROFORM	4.23	83	306489	44.3054095 ppb	99
34) 1,1,1-TRICHLOROETHANE	4.38	97	246293	43.4483394 ppb	99
35) CARBON TETRACHLORIDE	4.34	117	206697	42.3413803 ppb	99
36) 1,1-DICHLOROPROPENE	4.44	75	255331	44.4022889 ppb	99
37) 2,2,4-TRIMETHYLPENTANE	4.48	57	1065739	43.3658586 ppb	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 11.D Vial: 11
Acq On : 11 Oct 2015 9:37 pm Operator: 591
Sample : STD VMS 40 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:24:49 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:24:41 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

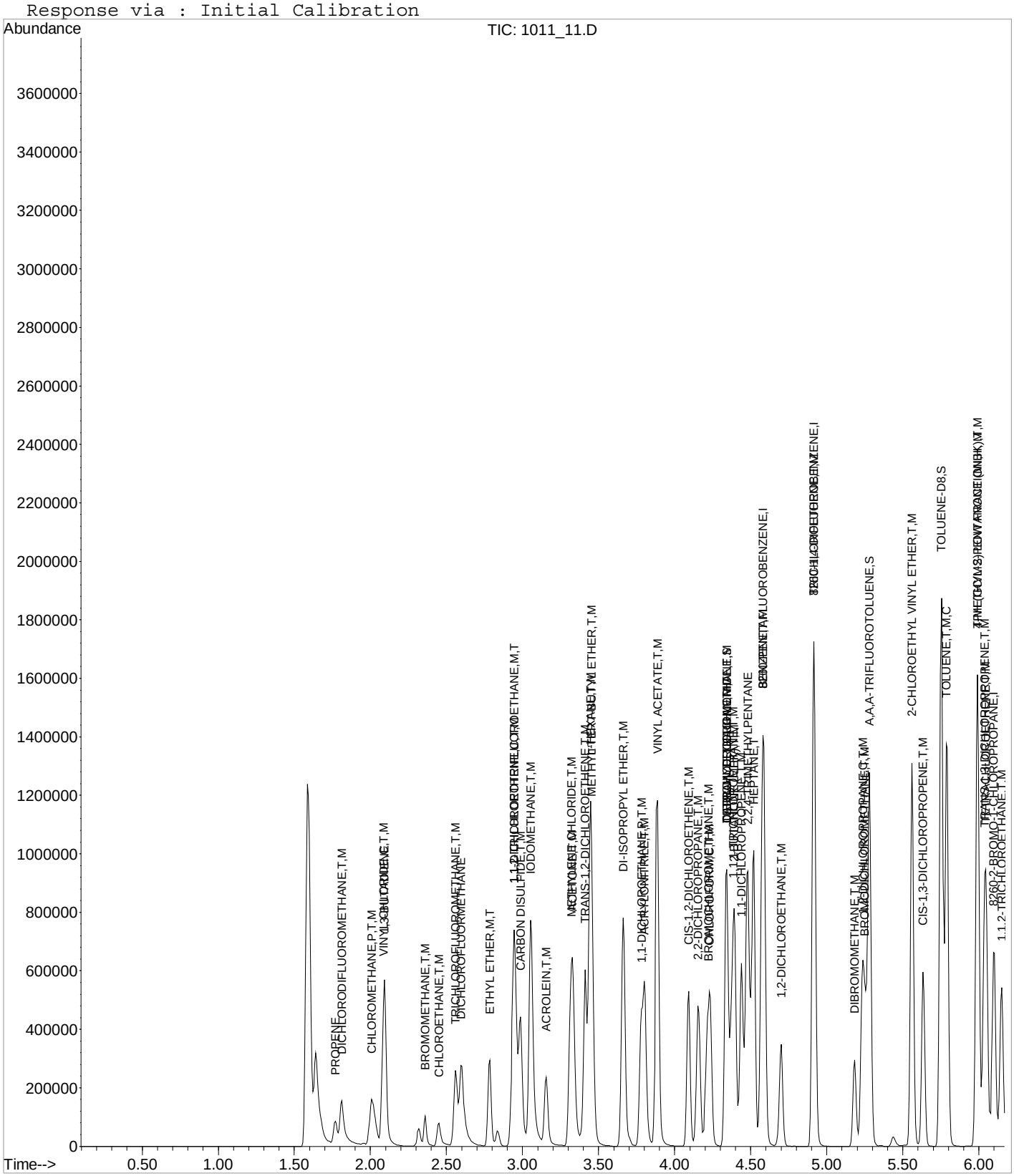
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	HEPTANE	4.52	71	238756	46.8108765	ppb	#	96
39)	BENZENE	4.59	78	760547	42.1245691	ppb		98
40)	1,2-DICHLOROETHANE	4.70	62	232035	47.8316836	ppb		99
42)	TRICHLOROETHENE	4.92	130	187084	47.7814739	ppb	#	100
43)	1,2-DICHLOROPROPANE	5.23	62	140410	48.5989783	ppb		99
44)	DIBROMOMETHANE	5.18	93	100982	51.7788443	ppb		96
45)	BROMODICHLOROMETHANE	5.25	83	231040	46.3538846	ppb		100
47)	2-CHLOROETHYL VINYL ETHER	5.56	63	511901	354.6789422	ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.63	75	309305	49.0934343	ppb		100
49)	4-METHYL-2-PENTANONE (MIBK	5.99	43	933331	279.8489031	ppb		98
51)	TOLUENE	5.79	91	862958	45.2285981	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	6.03	75	275073	51.8987253	ppb		99
54)	1,1,2-TRICHLOROETHANE	6.15	97	157776	48.4929452	ppb		98
55)	TETRACHLOROETHENE	6.05	164	133565	44.5190580	ppb		93
56)	1,3-DICHLOROPROPANE	6.34	76	290170	43.8747146	ppb		99
57)	2-HEXANONE	6.53	58	510159	378.6511423	ppb		99
58)	CHLORODIBROMOMETHANE	6.28	129	158883	48.5711463	ppb		97
59)	1,2-DIBROMOETHANE	6.47	107	151318	48.1603000	ppb		95
60)	CHLOROBENZENE	6.80	112	495368	43.4060876	ppb		97
61)	1,1,1,2-TETRACHLOROETHANE	6.84	133	150544	43.4673498	ppb		94
62)	ETHYLBENZENE	6.79	106	275790	42.9072521	ppb		98
63)	M&P-XYLENE	6.89	106	723644	88.7218446	ppb		97
64)	O-XYLENE	7.20	106	332551	45.4240092	ppb		89
65)	STYRENE	7.23	104	543819	45.5263989	ppb		99
66)	BROMOFORM	7.29	173	99272	51.3950338	ppb		97
67)	ISOPROPYLBENZENE	7.41	105	894869	42.1848032	ppb		98
69)	BROMOBENZENE	7.74	77	383209	42.8809297	ppb		98
70)	1,1,2,2-TETRACHLOROETHANE	7.77	83	220468	53.6713323	ppb		98
71)	1,2,3-TRICHLOROPROPANE	7.89	110	60573	60.6952222	ppb		95
72)	TRANS-1,4-DICHLORO-2-BUTEN	7.90	53	63157	69.5518404	ppb		97
73)	N-PROPYLBENZENE	7.72	91	1117980	45.4716254	ppb		99
74)	4-ETHYLTOLUENE	7.79	105	882469	42.0921313	ppb		99
75)	2-CHLOROTOLUENE	7.86	91	677237	41.7959923	ppb		98
76)	4-CHLOROTOLUENE	7.99	91	634909	43.6450179	ppb		99
77)	1,3,5-TRIMETHYLBENZENE	7.85	105	737667	43.8229464	ppb		95
78)	TERT-BUTYLBENZENE	8.10	119	603470	42.6844203	ppb		95
79)	1,2,4-TRIMETHYLBENZENE	8.16	105	711471	44.8479252	ppb		98
80)	SEC-BUTYLBENZENE	8.24	105	945281	42.2020920	ppb		98
81)	1,3-DICHLOROBENZENE	8.44	146	369534	44.3727900	ppb		99
82)	P-ISOPROPYLTOLUENE	8.34	119	823225	47.9006545	ppb		100
83)	DICYCLOPENTADIENE	8.36	66	894855	41.6524323	ppb		99
85)	1,4-DICHLOROBENZENE	8.51	146	355223	41.1519852	ppb	#	60
86)	1,2,3-TRIMETHYLBENZENE	8.50	105	720517	44.5926494	ppb		99
87)	1,2-DICHLOROBENZENE	8.85	146	333388	46.8276571	ppb		99
88)	N-BUTYLBENZENE	8.67	91	710467	48.5445915	ppb		100
89)	1,2-DIBROMO-3-CHLOROPROPAN	9.49	157	39776	66.1249995	ppb		98
90)	1,2,4-TRICHLOROBENZENE	10.04	180	209000	53.9046281	ppb		99
91)	HEXACHLORO-1,3-BUTADIENE	10.00	225	116474	45.3186601	ppb		96
92)	NAPHTHALENE	10.32	128	576900	55.6086113	ppb		99
93)	1,2,3-TRICHLOROBENZENE	10.47	180	195403	53.2815423	ppb		99
94)	1-METHYLNAPHTHALENE	11.19	142	302468	56.0375214	ppb		99
95)	2-METHYLNAPHTHALENE	11.34	142	289959	53.1920366	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 11.D Vial: 11
Acq On : 11 Oct 2015 9:37 pm Operator: 591
Sample : STD VMS 40 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:25 2015 Quant Results File: V808J11O.RES

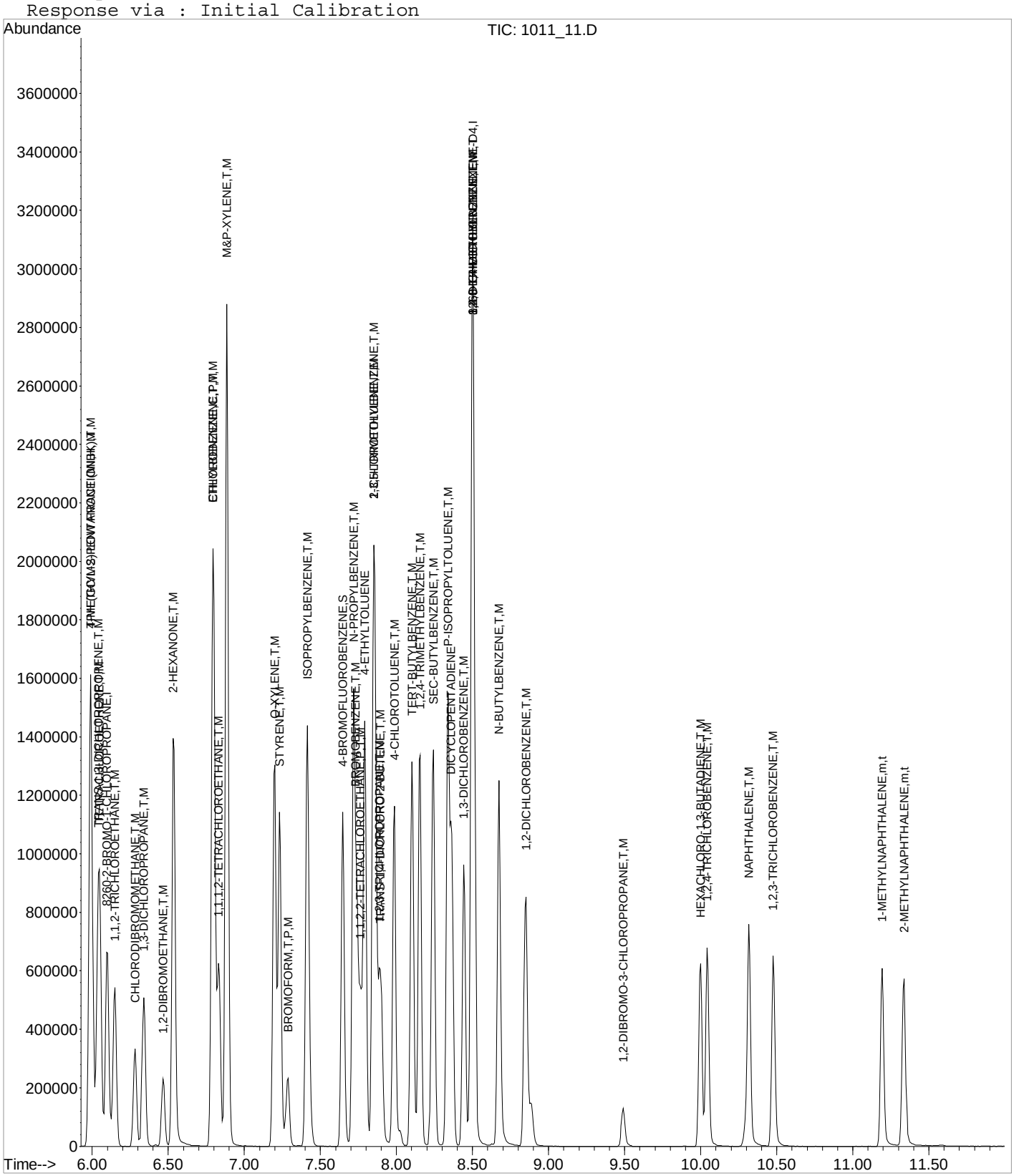
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:24:41 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_11.D Vial: 11
Acq On : 11 Oct 2015 9:37 pm Operator: 591
Sample : STD VMS 40 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:25 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:24:41 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 12.D Vial: 12
Acq On : 11 Oct 2015 10:01 pm Operator: 591
Sample : STD VMS 75 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:26:02 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:25:56 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	410640	40.00	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	775961	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	128116	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	304414	40.00	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb	-4.56
114) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb	-4.91
122) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00	ppb	-6.09
128) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00	ppb	-8.49
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.34	111	244798	46.4878453	ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 116.22%			
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	463337	46.9384464	ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 117.35%#			
50) TOLUENE-D8	5.75	98	1075025	45.6707699	ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 114.18%			
68) 4-BROMOFLUOROBENZENE	7.64	95	398530	46.9204034	ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 117.30%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.00	TIC	21934723m	50.0318941	ppm	
3) PROPENE	1.77	41	95752	76.2404722	ppb	99
4) DICHLORODIFLUOROMETHANE	1.81	85	329702	80.7760104	ppb	100
5) CHLOROMETHANE	2.01	50	445933	52.1034792	ppb	100
6) VINYL CHLORIDE	2.08	62	457579	83.4148356	ppb	99
7) 1,3-BUTADIENE	2.09	39	293071	76.2063346	ppb	93
8) BROMOMETHANE	2.36	94	88360	43.6528109	ppb	99
9) CHLOROETHANE	2.44	64	113391	43.0441866	ppb	93
10) TRICHLOROFLUOROMETHANE	2.56	101	402175	71.4224047	ppb	96
11) DICHLOROFLUORMETHANE	2.60	67	598918	80.0004989	ug/l	100
12) ETHYL ETHER	2.78	59	292258	88.4509639	ppb	97
13) ACROLEIN	3.15	56	368578	542.5172838	ppb	99
14) 1,1-DICHLOROETHENE	2.94	96	305551	88.3371503	ppb	98
15) 1,1,2-TRICHLOROTRIFLUOROET	2.95	101	300045	79.5913737	ppb	99
16) ACETONE	3.33	43	1045286	440.9630303	ppb	99
17) IODOMETHANE	3.05	142	1795014	428.2737587	ppb	98
18) CARBON DISULFIDE	2.98	76	1128081	81.7403167	ppb	99
19) METHYLENE CHLORIDE	3.31	84	338509	86.8627036	ppb	98
20) ACRYLONITRILE	3.80	53	677369	494.4123736	ppb	99
21) n-HEXANE	3.45	56	371129	88.3650561	ppb	100
22) TRANS-1,2-DICHLOROETHENE	3.41	96	348844	86.9662373	ppb	98
23) METHYL TERT-BUTYL ETHER	3.45	73	1014720	96.6943335	ppb	99
24) 1,1-DICHLOROETHANE	3.78	63	637936	87.4384537	ppb	100
25) VINYL ACETATE	3.88	43	2942027	460.0943995	ppb	99
26) DI-ISOPROPYL ETHER	3.66	45	1093333	84.8842332	ppb	99
27) 2,2-DICHLOROPROPANE	4.16	77	543559	90.9439708	ppb	99
28) CIS-1,2-DICHLOROETHENE	4.09	96	356986	84.4391364	ppb	96
29) 2-BUTANONE (MEK)	4.39	43	1322187	516.1396980	ppb	97
30) BROMOCHLOROMETHANE	4.21	130	170314	86.6370593	ppb	98
31) TETRAHYDROFURAN	4.34	42	127112	87.8587569	ppb	97
32) CHLOROFORM	4.23	83	548349	80.6523392	ppb	97
34) 1,1,1-TRICHLOROETHANE	4.38	97	488788	88.7657738	ppb	98
35) CARBON TETRACHLORIDE	4.34	117	409752	86.5502274	ppb	100
36) 1,1-DICHLOROPROPENE	4.44	75	483349	85.9401043	ppb	99
37) 2,2,4-TRIMETHYLPENTANE	4.48	57	1984782	82.6920936	ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 12.D Vial: 12
Acq On : 11 Oct 2015 10:01 pm Operator: 591
Sample : STD VMS 75 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:26:02 2015 Quant Results File: V808J11O.RES

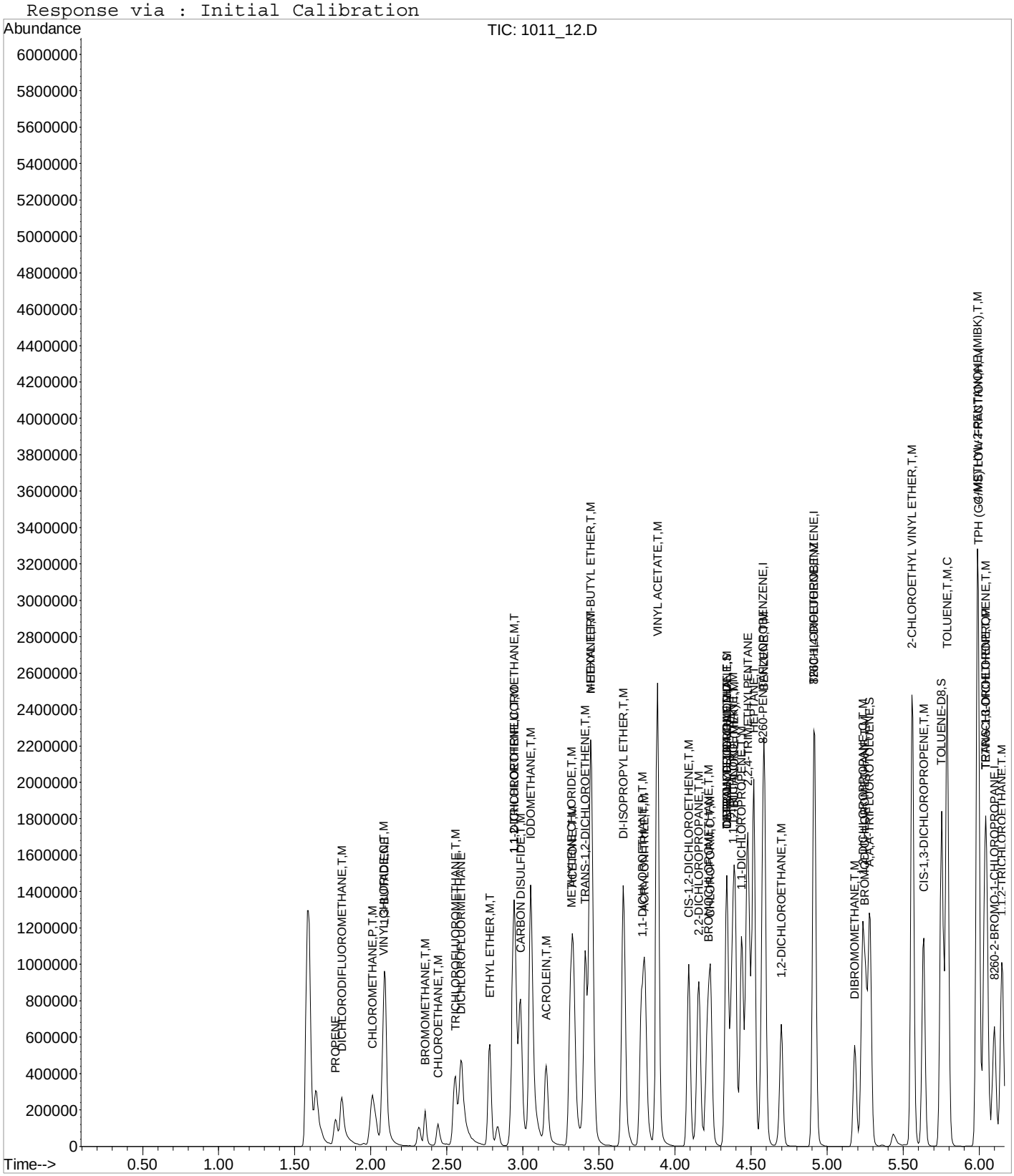
Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:25:56 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	HEPTANE	4.52	71	451086	90.3094124	ppb	#	89
39)	BENZENE	4.59	78	1429495	80.9168536	ppb		98
40)	1,2-DICHLOROETHANE	4.70	62	430235	89.1631477	ppb		97
42)	TRICHLOROETHENE	4.92	130	348518	84.8296945	ppb	#	66
43)	1,2-DICHLOROPROPANE	5.23	62	267658	88.1568321	ppb		98
44)	DIBROMOMETHANE	5.18	93	191055	91.0935582	ppb		98
45)	BROMODICHLOROMETHANE	5.25	83	428940	82.1523182	ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.56	63	988801	586.1868862	ppb		99
48)	CIS-1,3-DICHLOROPROPENE	5.64	75	599065	89.8891463	ppb		100
49)	4-METHYL-2-PENTANONE (MIBK	5.99	43	1920659	526.2319804	ppb		99
51)	TOLUENE	5.79	91	1556598	77.8043549	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	6.04	75	536183	95.0599646	ppb		100
54)	1,1,2-TRICHLOROETHANE	6.15	97	295873	90.2277674	ppb		99
55)	TETRACHLOROETHENE	6.05	164	248501	83.7879319	ppb		97
56)	1,3-DICHLOROPROPANE	6.34	76	540551	81.6907625	ppb		98
57)	2-HEXANONE	6.54	58	995035	695.8527839	ppb		92
58)	CHLORODIBROMOMETHANE	6.28	129	299362	91.4982367	ppb		98
59)	1,2-DIBROMOETHANE	6.46	107	302038	94.4955533	ppb		97
60)	CHLOROBENZENE	6.80	112	958487	84.8787860	ppb		100
61)	1,1,1,2-TETRACHLOROETHANE	6.83	133	292776	84.9560528	ppb	#	99
62)	ETHYLBENZENE	6.79	106	549137	86.7798173	ppb		97
63)	M&P-XYLENE	6.89	106	1345829	166.0323353	ppb		98
64)	O-XYLENE	7.20	106	643281	88.5061876	ppb		93
65)	STYRENE	7.24	104	1050685	88.7389461	ppb		98
66)	BROMOFORM	7.28	173	196889	99.7313419	ppb		97
67)	ISOPROPYLBENZENE	7.41	105	1756175	83.5107468	ppb		99
69)	BROMOBENZENE	7.74	77	737337	83.2273033	ppb		98
70)	1,1,2,2-TETRACHLOROETHANE	7.76	83	407170	96.8006009	ppb		99
71)	1,2,3-TRICHLOROPROPANE	7.89	110	120322	118.6526370	ppb		98
72)	TRANS-1,4-DICHLORO-2-BUTEN	7.90	53	124868	112.2134548	ppb		95
73)	N-PROPYLBENZENE	7.72	91	1994095	81.8589451	ppb		99
74)	4-ETHYLTOLUENE	7.79	105	1668032	81.1119631	ppb		100
75)	2-CHLOROTOLUENE	7.86	91	1333592	83.5085440	ppb		98
76)	4-CHLOROTOLUENE	7.98	91	1239988	86.2966960	ppb		97
77)	1,3,5-TRIMETHYLBENZENE	7.85	105	1418623	85.4916748	ppb		97
78)	TERT-BUTYLBENZENE	8.11	119	1161584	83.3381807	ppb		95
79)	1,2,4-TRIMETHYLBENZENE	8.15	105	1381653	87.5254751	ppb		97
80)	SEC-BUTYLBENZENE	8.24	105	1755996	79.3440163	ppb		96
81)	1,3-DICHLOROBENZENE	8.45	146	683978	82.6098255	ppb		97
82)	P-ISOPROPYLTOLUENE	8.34	119	1462869	84.7878568	ppb		99
83)	DICYCLOPENTADIENE	8.36	66	1717698	82.3800004	ppb		99
85)	1,4-DICHLOROBENZENE	8.51	146	674663	81.2710389	ppb	#	27
86)	1,2,3-TRIMETHYLBENZENE	8.50	105	1433209	92.4420513	ppb		97
87)	1,2-DICHLOROBENZENE	8.85	146	633786	92.0159279	ppb		97
88)	N-BUTYLBENZENE	8.67	91	1383246	97.8323216	ppb		99
89)	1,2-DIBROMO-3-CHLOROPROPAN	9.49	157	83131	132.4109783	ppb		99
90)	1,2,4-TRICHLOROBENZENE	10.05	180	389738	102.3029308	ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	10.00	225	218852	87.9322147	ppb		98
92)	NAPHTHALENE	10.31	128	1111869	106.6155136	ppb		100
93)	1,2,3-TRICHLOROBENZENE	10.48	180	393089	108.4970556	ppb		94
94)	1-METHYLNAPHTHALENE	11.20	142	586199	108.4287290	ppb		98
95)	2-METHYLNAPHTHALENE	11.34	142	514276	94.0655398	ppb		98

(#) = qualifier out of range (m) = manual integration

Data File : C:\MSDCHEM\1\DATA\101115\1011 12.D Vial: 12
Acq On : 11 Oct 2015 10:01 pm Operator: 591
Sample : STD VMS 75 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:26 2015 Quant Results File: V808J11O.RES

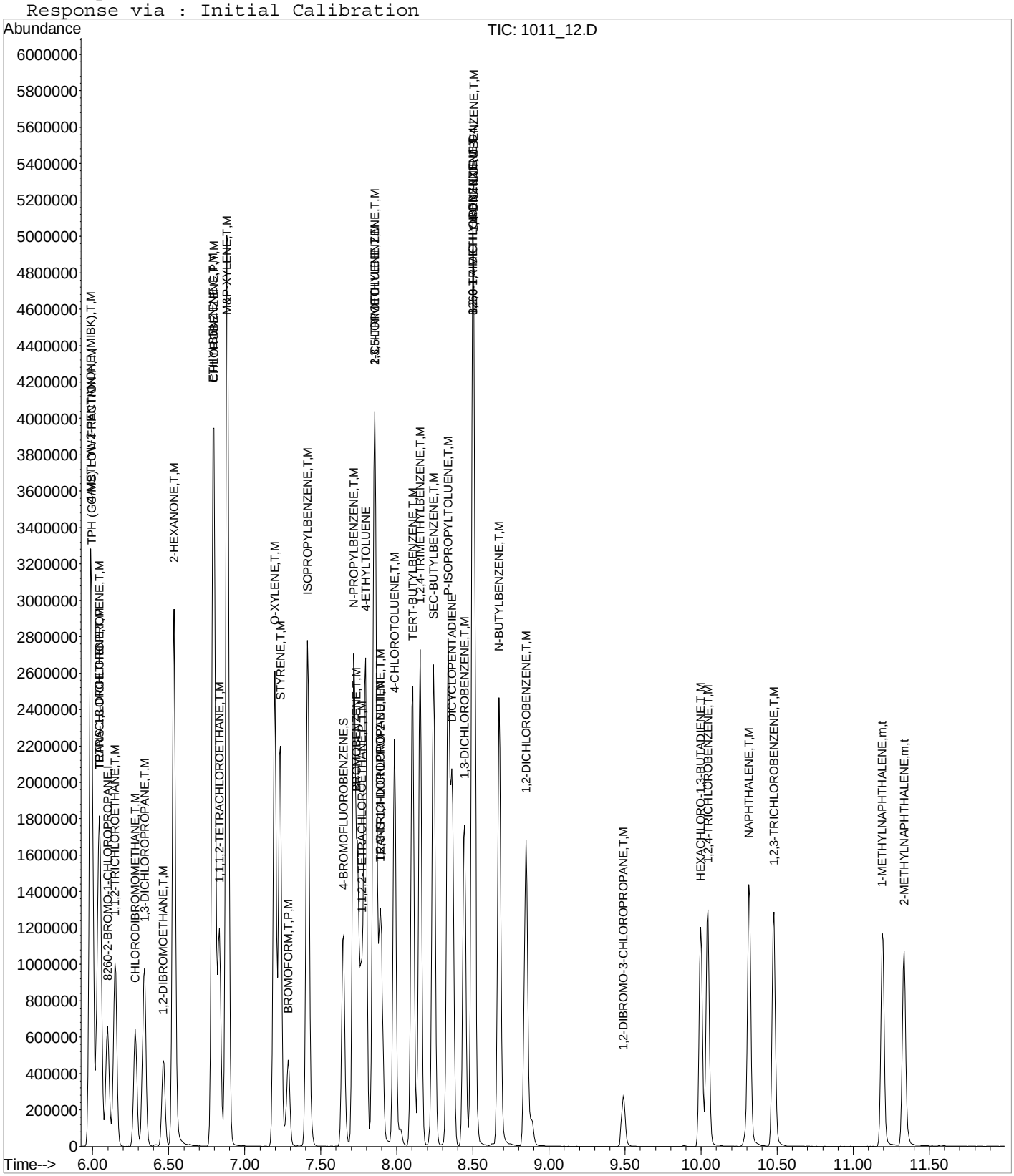
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:25:56 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_12.D Vial: 12
Acq On : 11 Oct 2015 10:01 pm Operator: 591
Sample : STD VMS 75 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:26 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:25:56 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 13.D Vial: 13
Acq On : 11 Oct 2015 10:25 pm Operator: 591
Sample : STD VMS 100 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:27:13 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:27:08 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	410766	40.00	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	803083	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	132254	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	318511	40.00	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb	-4.56
114) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb	-4.91
122) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00	ppb	-6.09
128) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00	ppb	-8.49
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.34	111	245003	46.8985789	ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 117.25%			
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	467005	45.4528916	ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 113.63%			
50) TOLUENE-D8	5.75	98	1113477	45.6537795	ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 114.13%			
68) 4-BROMOFLUOROBENZENE	7.64	95	391611	44.6734519	ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 111.68%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.00	TIC	32209841m	69.4284536	ppm	
3) PROPENE	1.77	41	132344	106.5242860	ppb	99
4) DICHLORODIFLUOROMETHANE	1.81	85	444725	112.5880551	ppb	100
5) CHLOROMETHANE	2.01	50	589916	69.5434175	ppb	99
6) VINYL CHLORIDE	2.08	62	597003	111.9696919	ppb	99
7) 1,3-BUTADIENE	2.09	39	405971	109.1719370	ppb	96
8) BROMOMETHANE	2.35	94	125519	72.1687884	ppb	99
9) CHLOROETHANE	2.44	64	160722	67.0439024	ppb	96
10) TRICHLOROFLUOROMETHANE	2.55	101	482283	90.3679270	ppb	93
11) DICHLOROFLUORMETHANE	2.60	67	792382	109.2763461	ug/l	100
12) ETHYL ETHER	2.78	59	386926	116.7081602	ppb	99
13) ACROLEIN	3.16	56	484476	686.3449810	ppb	99
14) 1,1-DICHLOROETHENE	2.94	96	425623	125.6860024	ppb	100
15) 1,1,2-TRICHLOROTRIFLUOROET	2.95	101	405303	109.5392289	ppb	99
16) ACETONE	3.33	43	1305291	537.6982727	ppb	100
17) IODOMETHANE	3.05	142	2496349	610.9315055	ppb	98
18) CARBON DISULFIDE	2.98	76	1595131	117.4748147	ppb	99
19) METHYLENE CHLORIDE	3.31	84	458742	119.5491306	ppb	97
20) ACRYLONITRILE	3.80	53	906064	646.5488514	ppb	99
21) n-HEXANE	3.44	56	514294	124.5299601	ppb	98
22) TRANS-1,2-DICHLOROETHENE	3.41	96	461100	116.8626222	ppb	95
23) METHYL TERT-BUTYL ETHER	3.45	73	1326566	124.1030146	ppb	96
24) 1,1-DICHLOROETHANE	3.78	63	861116	120.0327907	ppb	99
25) VINYL ACETATE	3.88	43	3780773	598.3073669	ppb	100
26) DI-ISOPROPYL ETHER	3.66	45	1500568	118.2142331	ppb	98
27) 2,2-DICHLOROPROPANE	4.15	77	745515	124.6141888	ppb	98
28) CIS-1,2-DICHLOROETHENE	4.09	96	485706	117.0335086	ppb	94
29) 2-BUTANONE (MEK)	4.39	43	1710524	643.8286712	ppb	98
30) BROMOCHLOROMETHANE	4.21	130	230510	116.5373319	ppb	99
31) TETRAHYDROFURAN	4.34	42	168001	112.7171401	ppb	96
32) CHLOROFORM	4.23	83	749211	112.1868680	ppb	97
34) 1,1,1-TRICHLOROETHANE	4.37	97	663404	123.7380785	ppb	98
35) CARBON TETRACHLORIDE	4.34	117	563162	122.6109166	ppb	100
36) 1,1-DICHLOROPROPENE	4.44	75	656420	118.9165520	ppb	99
37) 2,2,4-TRIMETHYLPENTANE	4.48	57	2755462	117.3059765	ppb	95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 13.D Vial: 13
Acq On : 11 Oct 2015 10:25 pm Operator: 591
Sample : STD VMS 100 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:27:13 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:27:08 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

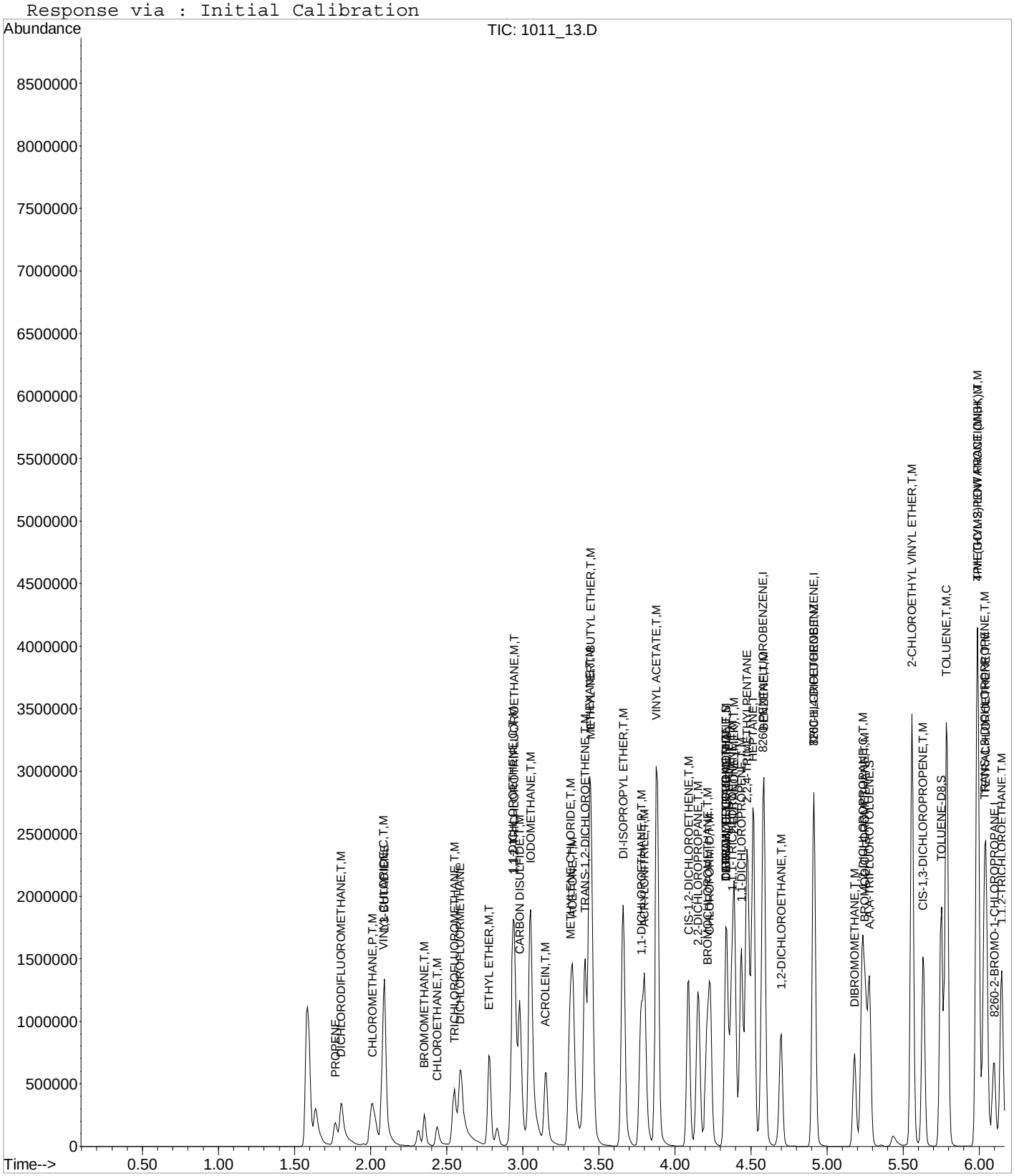
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	HEPTANE	4.51	71	634730	129.5850294	ppb	#	88
39)	BENZENE	4.58	78	1978654	114.0929427	ppb		98
40)	1,2-DICHLOROETHANE	4.70	62	600175	124.9106617	ppb		99
42)	TRICHLOROETHENE	4.91	130	454738	107.4293450	ppb	#	66
43)	1,2-DICHLOROPROPANE	5.23	62	364561	116.9028643	ppb		97
44)	DIBROMOMETHANE	5.18	93	251331	114.1392698	ppb		97
45)	BROMODICHLOROMETHANE	5.25	83	599297	111.9707979	ppb		99
47)	2-CHLOROETHYL VINYL ETHER	5.56	63	1281128	674.7231668	ppb		98
48)	CIS-1,3-DICHLOROPROPENE	5.63	75	792431	114.9201845	ppb		99
49)	4-METHYL-2-PENTANONE (MIBK	5.99	43	2447650	626.8311161	ppb		100
51)	TOLUENE	5.78	91	2184675	106.2206329	ppb		98
52)	TRANS-1,3-DICHLOROPROPENE	6.03	75	694133	118.1829018	ppb		98
54)	1,1,2-TRICHLOROETHANE	6.15	97	398776	117.4798574	ppb		97
55)	TETRACHLOROETHENE	6.05	164	334038	110.4663987	ppb		93
56)	1,3-DICHLOROPROPANE	6.34	76	736605	107.9847469	ppb		99
57)	2-HEXANONE	6.53	58	1390526	844.9352199	ppb		99
58)	CHLORODIBROMOMETHANE	6.28	129	402407	119.4328906	ppb		98
59)	1,2-DIBROMOETHANE	6.46	107	383017	114.1012785	ppb		96
60)	CHLOROBENZENE	6.80	112	1257116	108.8465713	ppb		98
61)	1,1,1,2-TETRACHLOROETHANE	6.84	133	377134	106.8929220	ppb		94
62)	ETHYLBENZENE	6.79	106	714834	111.0000711	ppb		98
63)	M&P-XYLENE	6.88	106	1842904	223.5294155	ppb		96
64)	O-XYLENE	7.20	106	890865	119.8944985	ppb		98
65)	STYRENE	7.23	104	1412346	117.2104752	ppb		87
66)	BROMOFORM	7.29	173	248653	120.5266934	ppb		97
67)	ISOPROPYLBENZENE	7.41	105	2257140	105.7667636	ppb		100
69)	BROMOBENZENE	7.74	77	995095	110.2581646	ppb		98
70)	1,1,2,2-TETRACHLOROETHANE	7.77	83	526611	119.0615162	ppb		98
71)	1,2,3-TRICHLOROPROPANE	7.89	110	156230	140.7496226	ppb		95
72)	TRANS-1,4-DICHLORO-2-BUTEN	7.90	53	167906	139.0766420	ppb		97
73)	N-PROPYLBENZENE	7.72	91	2669187	107.4238196	ppb		97
74)	4-ETHYLTOLUENE	7.79	105	2243759	108.2913784	ppb		98
75)	2-CHLOROTOLUENE	7.86	91	1797972	110.8694272	ppb		98
76)	4-CHLOROTOLUENE	7.99	91	1625587	110.5544459	ppb		98
77)	1,3,5-TRIMETHYLBENZENE	7.85	105	1836944	108.7537440	ppb		98
78)	TERT-BUTYLBENZENE	8.10	119	1603388	112.7365566	ppb		97
79)	1,2,4-TRIMETHYLBENZENE	8.16	105	1804891	111.8788978	ppb		99
80)	SEC-BUTYLBENZENE	8.24	105	2565237	114.1483926	ppb		99
81)	1,3-DICHLOROBENZENE	8.44	146	875129	103.5930757	ppb		100
82)	P-ISOPROPYLTOLUENE	8.34	119	1955884	111.5413501	ppb		98
83)	DICYCLOPENTADIENE	8.36	66	2442789	116.9070715	ppb		100
85)	1,4-DICHLOROBENZENE	8.51	146	847439	98.6385034	ppb	#	21
86)	1,2,3-TRIMETHYLBENZENE	8.50	105	1766246	109.5936854	ppb		100
87)	1,2-DICHLOROBENZENE	8.85	146	858326	119.0947749	ppb		99
88)	N-BUTYLBENZENE	8.67	91	1952393	132.6714659	ppb		99
89)	1,2-DIBROMO-3-CHLOROPROPAN	9.49	157	108477	155.1088425	ppb		99
90)	1,2,4-TRICHLOROBENZENE	10.04	180	524688	131.1680690	ppb		98
91)	HEXACHLORO-1,3-BUTADIENE	10.00	225	293150	113.5609748	ppb		99
92)	NAPHTHALENE	10.32	128	1409633	125.6211914	ppb		99
93)	1,2,3-TRICHLOROBENZENE	10.48	180	528942	137.3705668	ppb		96
94)	1-METHYLNAPHTHALENE	11.19	142	743100	128.7752767	ppb		99
95)	2-METHYLNAPHTHALENE	11.34	142	672494	115.2921393	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

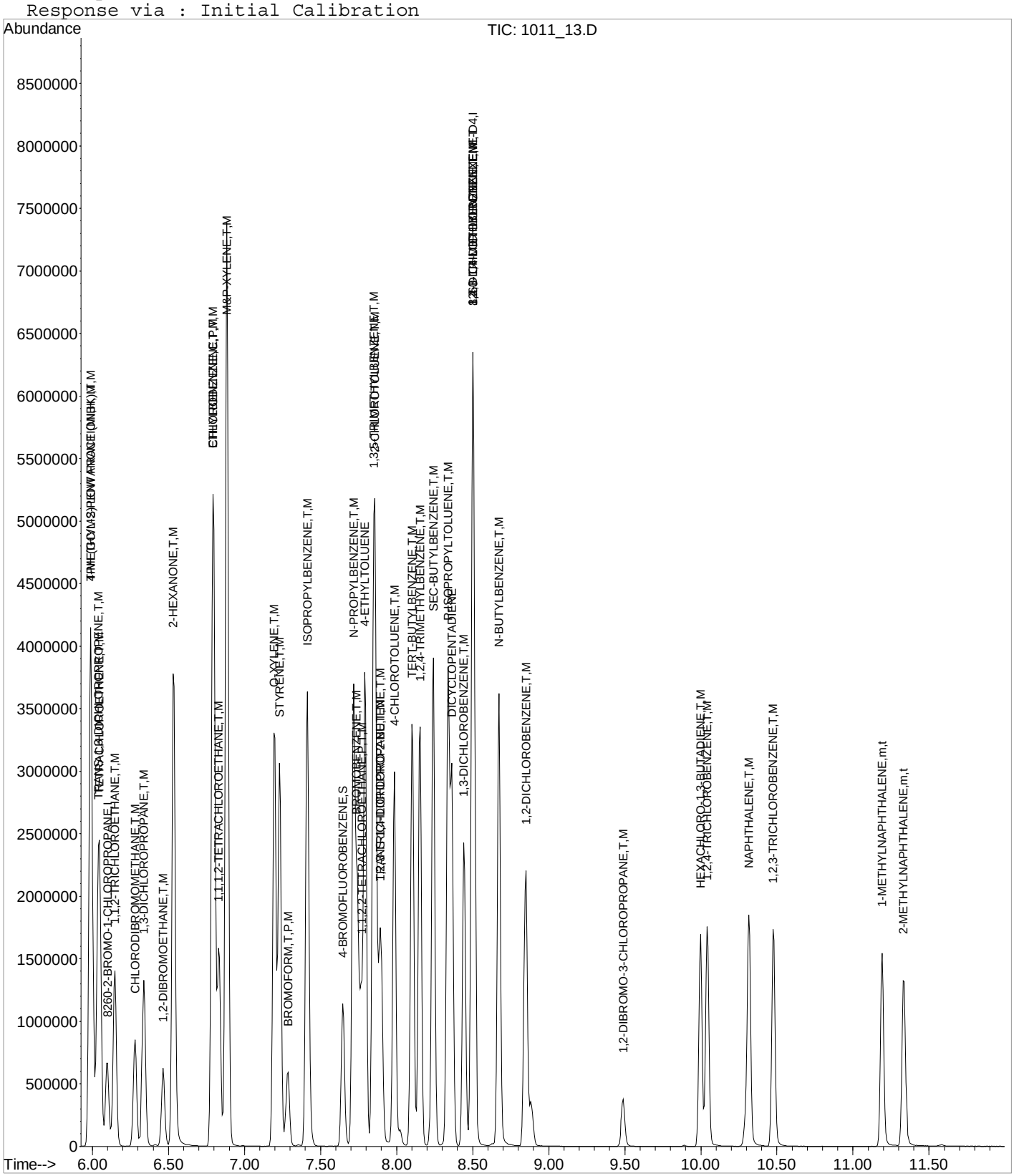
Data File : C:\MSDCHEM\1\DATA\101115\1011 13.D Vial: 13
Acq On : 11 Oct 2015 10:25 pm Operator: 591
Sample : STD VMS 100 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:28 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:27:08 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\101115\1011_13.D Vial: 13
Acq On : 11 Oct 2015 10:25 pm Operator: 591
Sample : STD VMS 100 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:28 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:27:08 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 14.D Vial: 14
Acq On : 11 Oct 2015 10:49 pm Operator: 591
Sample : STD VMS 200 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:28:29 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:28:24 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	423095	40.00	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	807173	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.09	79	136995	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	288155	40.00	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb	-4.56
114) AP9-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb	-4.91
122) AP9-2-BROMO-1-CHLOROPROPAN	0.00	79	0m	40.00	ppb	-6.09
128) AP9-1,4-DICHLOROBENZENE-D4	0.00	152	0m	40.00	ppb	-8.49
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.34	111	261425	48.5815697	ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 121.45%			
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	479396	46.5299093	ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 116.32%			
50) TOLUENE-D8	5.75	98	1131972	46.1737775	ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 115.43%#			
68) 4-BROMOFLUOROBENZENE	7.65	95	420114	46.4650998	ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 116.16%			
Target Compounds						Qvalue
2) TPH (GC/MS) LOW FRACTION	6.00	TIC	87057344m	168.2411021	ppm	
3) PROPENE	1.76	41	273593	208.2281986	ppb	100
4) DICHLORODIFLUOROMETHANE	1.81	85	904438	216.0136161	ppb	99
5) CHLOROMETHANE	2.01	50	1167480	131.5915188	ppb	100
6) VINYL CHLORIDE	2.07	62	1278126	227.3322608	ppb	99
7) 1,3-BUTADIENE	2.09	39	832695	211.5648592	ppb	93
8) BROMOMETHANE	2.35	94	248061	135.5753281	ppb	99
9) CHLOROETHANE	2.43	64	163759	65.0370538	ppb #	91
10) TRICHLOROFLUOROMETHANE	2.54	101	754543	135.4178093	ppb	99
11) DICHLOROFLUORMETHANE	2.59	67	1376917	179.9938436	ug/l	100
12) ETHYL ETHER	2.78	59	817599	232.7846370	ppb	99
13) ACROLEIN	3.15	56	1002166	1338.4545625	ppb	99
14) 1,1-DICHLOROETHENE	2.93	96	880791	244.6379462	ppb	99
15) 1,1,2-TRICHLOROTRIFLUOROET	2.94	101	822784	209.9233030	ppb	99
16) ACETONE	3.33	43	2460318	965.1911025	ppb	97
17) IODOMETHANE	3.05	142	5002839	1103.8862931	ppb	97
18) CARBON DISULFIDE	2.97	76	3233301	224.1758304	ppb	100
19) METHYLENE CHLORIDE	3.31	84	936010	230.2648427	ppb	96
20) ACRYLONITRILE	3.80	53	1917058	1289.8734017	ppb	99
21) n-HEXANE	3.44	56	1048636	238.9896455	ppb	93
22) TRANS-1,2-DICHLOROETHENE	3.41	96	981423	235.4040555	ppb	98
23) METHYL TERT-BUTYL ETHER	3.45	73	2900221	256.6162988	ppb	99
24) 1,1-DICHLOROETHANE	3.78	63	1830869	240.9631378	ppb	100
25) VINYL ACETATE	3.88	43	7037145	1055.7266690	ppb	100
26) DI-ISOPROPYL ETHER	3.66	45	3171862	235.7273483	ppb	99
27) 2,2-DICHLOROPROPANE	4.15	77	1515498	238.6197218	ppb	99
28) CIS-1,2-DICHLOROETHENE	4.09	96	1023749	232.9276240	ppb	94
29) 2-BUTANONE (MEK)	4.39	43	3463143	1232.7893175	ppb	99
30) BROMOCHLOROMETHANE	4.21	130	427541	203.6578223	ppb	91
31) TETRAHYDROFURAN	4.34	42	336800	214.0516212	ppb	97
32) CHLOROFORM	4.23	83	1571177	222.3380992	ppb	99
34) 1,1,1-TRICHLOROETHANE	4.37	97	1358024	238.8514731	ppb	98
35) CARBON TETRACHLORIDE	4.34	117	1156848	237.3277762	ppb	99
36) 1,1-DICHLOROPROPENE	4.44	75	1355984	231.8869843	ppb	100
37) 2,2,4-TRIMETHYLPENTANE	4.48	57	5825596	233.8128682	ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 14.D Vial: 14
Acq On : 11 Oct 2015 10:49 pm Operator: 591
Sample : STD VMS 200 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SUR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:28:29 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:28:24 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

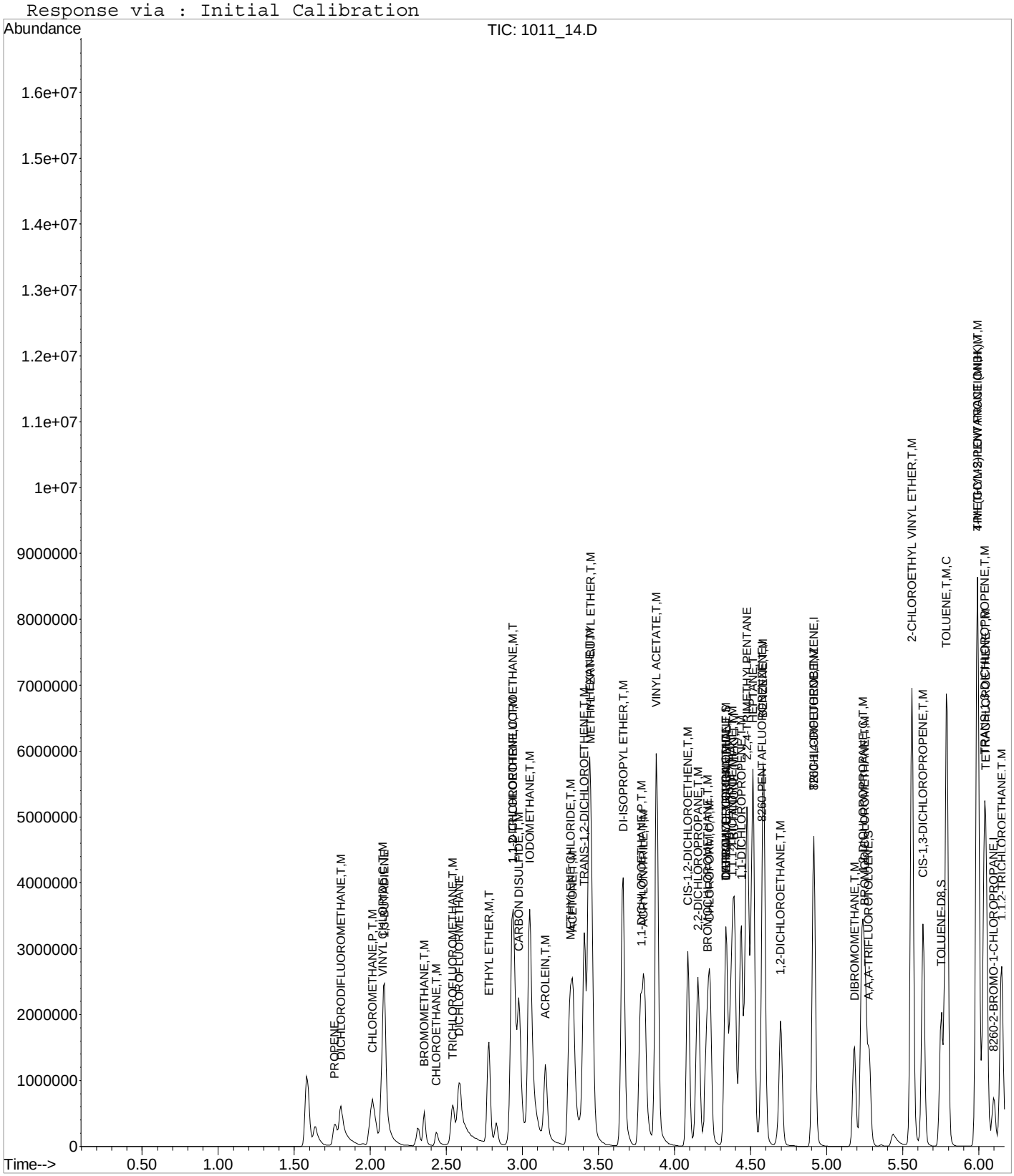
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
38)	HEPTANE	4.51	71	1271325	243.6879097	ppb	#	84
39)	BENZENE	4.59	78	4196982	228.3846562	ppb		99
40)	1,2-DICHLOROETHANE	4.70	62	1222789	239.3845200	ppb		98
42)	TRICHLOROETHENE	4.91	130	998952	230.1528317	ppb	#	66
43)	1,2-DICHLOROPROPANE	5.23	62	763003	237.3723990	ppb		98
44)	DIBROMOMETHANE	5.18	93	534972	235.9768143	ppb		96
45)	BROMODICHLOROMETHANE	5.26	83	1273476	230.6403518	ppb		100
47)	2-CHLOROETHYL VINYL ETHER	5.56	63	2706893	1384.2308475	ppb		98
48)	CIS-1,3-DICHLOROPROPENE	5.63	75	1731502	244.2809491	ppb		99
49)	4-METHYL-2-PENTANONE (MIBK	5.99	43	5160304	1287.2688209	ppb		99
51)	TOLUENE	5.78	91	4406139	207.8734917	ppb		99
52)	TRANS-1,3-DICHLOROPROPENE	6.03	75	1527584	253.3101096	ppb		99
54)	1,1,2-TRICHLOROETHANE	6.15	97	783128	217.2938197	ppb		96
55)	TETRACHLOROETHENE	6.05	164	702459	219.1570008	ppb		96
56)	1,3-DICHLOROPROPANE	6.34	76	1560800	215.7562353	ppb		97
57)	2-HEXANONE	6.53	58	2931436	1565.5657578	ppb		93
58)	CHLORODIBROMOMETHANE	6.28	129	857738	239.7237274	ppb		99
59)	1,2-DIBROMOETHANE	6.47	107	796751	224.3783210	ppb		95
60)	CHLOROBENZENE	6.80	112	2500077	204.6641182	ppb		96
61)	1,1,1,2-TETRACHLOROETHANE	6.83	133	784540	210.2078820	ppb	#	96
62)	ETHYLBENZENE	6.79	106	1537713	225.7978841	ppb		94
63)	M&P-XYLENE	6.89	106	3466975	396.0584610	ppb		91
64)	O-XYLENE	7.20	106	1752045	221.4876737	ppb		97
65)	STYRENE	7.23	104	2960564	231.4708993	ppb		87
66)	BROMOFORM	7.29	173	524986	240.3736466	ppb		98
67)	ISOPROPYLBENZENE	7.42	105	4399245	195.3129669	ppb		97
69)	BROMOBENZENE	7.74	77	2119558	221.5033439	ppb		92
70)	1,1,2,2-TETRACHLOROETHANE	7.77	83	1143028	244.1500481	ppb		97
71)	1,2,3-TRICHLOROPROPANE	7.89	110	311296	254.9064611	ppb		93
72)	TRANS-1,4-DICHLORO-2-BUTEN	7.90	53	362132	254.7235205	ppb		95
73)	N-PROPYLBENZENE	7.72	91	5562666	211.4033879	ppb		97
74)	4-ETHYLTOLUENE	7.79	105	4476503	203.9054801	ppb		99
75)	2-CHLOROTOLUENE	7.87	91	3643556	211.8950033	ppb		99
76)	4-CHLOROTOLUENE	7.99	91	3234672	207.9312642	ppb		98
77)	1,3,5-TRIMETHYLBENZENE	7.85	105	3664055	205.3021685	ppb		96
78)	TERT-BUTYLBENZENE	8.10	119	3143704	208.0134913	ppb		98
79)	1,2,4-TRIMETHYLBENZENE	8.16	105	3630798	212.7330844	ppb		98
80)	SEC-BUTYLBENZENE	8.24	105	4813066	200.6525846	ppb		100
81)	1,3-DICHLOROBENZENE	8.44	146	1743444	195.6773842	ppb		99
82)	P-ISOPROPYLTOLUENE	8.34	119	4026163	216.6535279	ppb		100
83)	DICYCLOPENTADIENE	8.36	66	4752528	213.3595630	ppb		99
85)	1,4-DICHLOROBENZENE	8.51	146	1700687	215.5781812	ppb	#	6
86)	1,2,3-TRIMETHYLBENZENE	8.50	105	3544685	239.5113898	ppb		99
87)	1,2-DICHLOROBENZENE	8.85	146	1680484	251.5416130	ppb		99
88)	N-BUTYLBENZENE	8.67	91	3698169	269.3713669	ppb		98
89)	1,2-DIBROMO-3-CHLOROPROPAN	9.49	157	228644	349.4398727	ppb		98
90)	1,2,4-TRICHLOROBENZENE	10.04	180	1101861	296.5954260	ppb		96
91)	HEXACHLORO-1,3-BUTADIENE	10.00	225	566895	236.8521893	ppb		99
92)	NAPHTHALENE	10.32	128	2973058	287.1301624	ppb		99
93)	1,2,3-TRICHLOROBENZENE	10.47	180	1058195	295.5634843	ppb		94
94)	1-METHYLNAPHTHALENE	11.19	142	1470960	276.1189317	ppb		99
95)	2-METHYLNAPHTHALENE	11.34	142	1354579	251.4262462	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

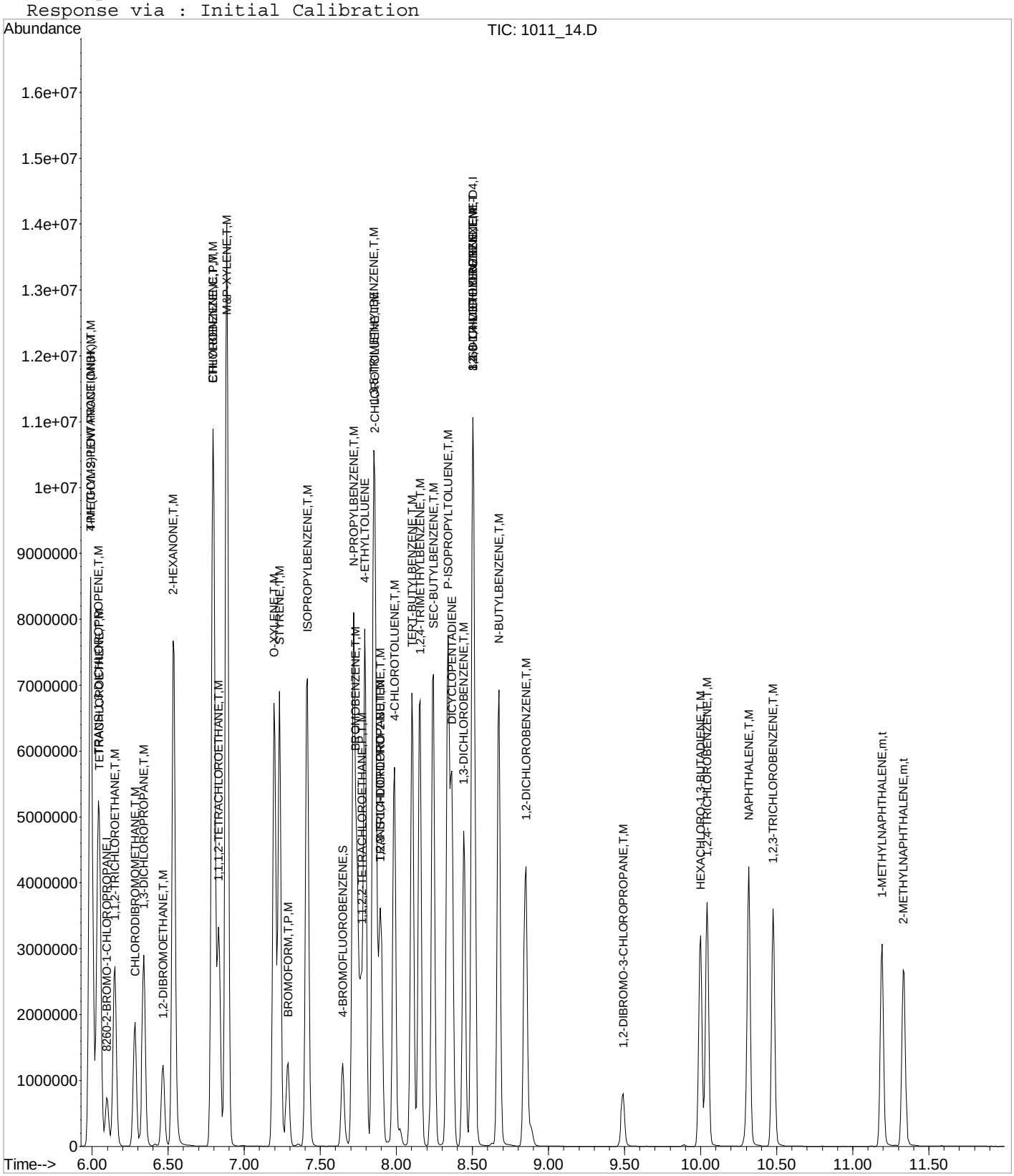
Data File : C:\MSDCHEM\1\DATA\101115\1011 14.D Vial: 14
Acq On : 11 Oct 2015 10:49 pm Operator: 591
Sample : STD VMS 200 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:29 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:28:24 2015
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\101115\1011_14.D Vial: 14
Acq On : 11 Oct 2015 10:49 pm Operator: 591
Sample : STD VMS 200 ppb 15J11486 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:29 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:28:24 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 19.D Vial: 19
Acq On : 12 Oct 2015 12:50 am Operator: 591
Sample : STD VMS 1 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:47:35 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:47:17 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb	-4.57
41) 8260-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb	-4.91
53) 8260-2-BROMO-1-CHLOROPROPA	0.00	79	0m	40.00	ppb	-6.10
84) 8260-1,4-DICHLOROBENZENE-D	0.00	152	0m	40.00	ppb	-8.50
96) AP9-PENTAFLUOROBENZENE	4.57	168	364819	40.00	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	700029	40.00	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.10	79	109379	40.00	ppb	0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	261771	40.00	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.00	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 76 - 123		Recovery =	0.00%#		
46) A,A,A-TRIFLUOROTOLUENE	0.00	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 87 - 117		Recovery =	0.00%#		
50) TOLUENE-D8	0.00	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 115		Recovery =	0.00%#		
68) 4-BROMOFLUOROBENZENE	0.00	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 70 - 129		Recovery =	0.00%#		

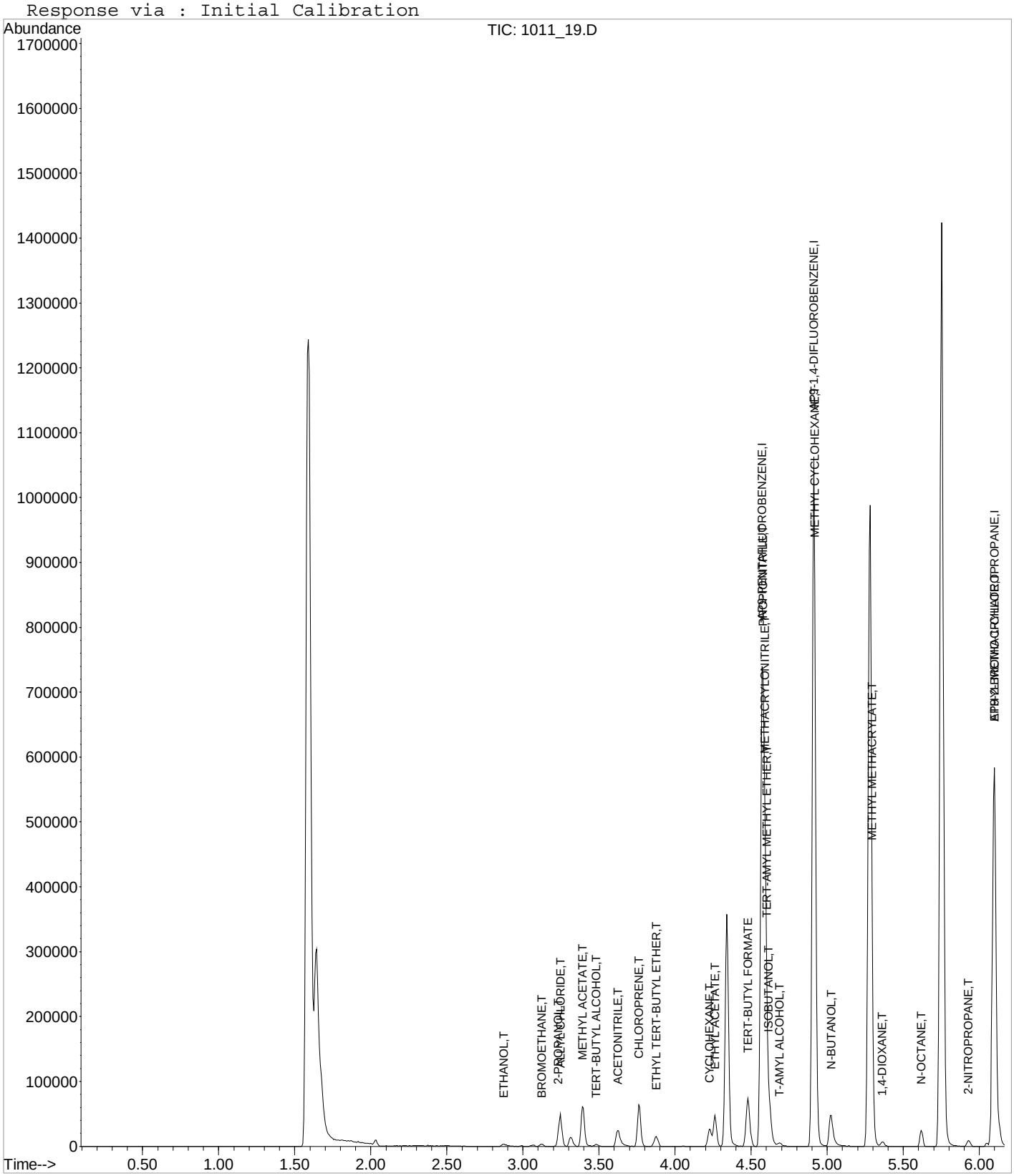
Target Compounds						Qvalue
97) ETHANOL	2.87	45	5532	144.5607410	ppb #	77
98) BROMOETHANE	3.12	108	2928	0.9747419	ppb	96
99) 2-PROPANOL	3.23	45	1456	4.1934977	ppb #	58
100) METHYL ACETATE	3.39	43	67254	28.9381176	ppb #	96
101) ACETONITRILE	3.62	41	29057	69.0772938	ppb	99
102) ALLYL CHLORIDE	3.24	76	10629	4.9171125	ppb	93
103) TERT-BUTYL ALCOHOL	3.48	59	3941	12.7067635	ppb #	77
104) CHLOROPRENE	3.76	53	33496	4.3838415	ppb	100
105) ETHYL TERT-BUTYL ETHER	3.88	59	12766	1.1796670	ppb	99
106) PROPIONITRILE	4.58	54	38098	74.5734684	ppb #	79
107) ETHYL ACETATE	4.26	43	45553	14.6495407	ppb	98
108) METHACRYLONITRILE	4.60	67	103097	68.6616326	ppb	96
109) CYCLOHEXANE	4.23	84	10938	0.9474870	ppb	97
110) TERT-BUTYL FORMATE	4.48	59	33905	9.7841367	ppb	96
111) ISOBUTANOL	4.62	43	32926	179.4861726	ppb #	93
112) T-AMYL ALCOHOL	4.69	59	2639	12.6620040	ppb	95
113) TERT-AMYL METHYL ETHER	4.61	73	14888	1.2118492	ppb #	97
115) N-BUTANOL	5.02	56	32292	357.5567406	ppb	97
116) METHYL CYCLOHEXANE	4.92	83	19290	1.4773999	ppb #	81
117) 2-NITROPROPANE	5.93	43	5709	6.0762392	ppb	91
118) METHYL METHACRYLATE	5.30	41	19829	6.4303465	ppb #	1
119) 1,4-DIOXANE	5.36	88	5484	140.6321708	ppb #	95
120) N-OCTANE	5.62	85	4780	0.9013859	ppb	97
121) 3,3-DIMETHYL-1-BUTANOL	6.52	57	900	1.5262931	ppb #	59
123) ETHYL METHACRYLATE	6.09	69	20009	5.5938697	ppb #	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.67	53	5315	7.4093371	ppb #	1
125) CYCLOHEXANONE	7.95	55	3489	3.8548822	ppb	96
126) PENTACHLOROETHANE	8.15	117	10526	5.0503356	ppb #	93
127) HEXACHLOROETHANE	8.83	117	2583	0.8734837	ppb #	90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 19.D Vial: 19
Acq On : 12 Oct 2015 12:50 am Operator: 591
Sample : STD VMS 1 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:48 2015 Quant Results File: V808J11O.RES

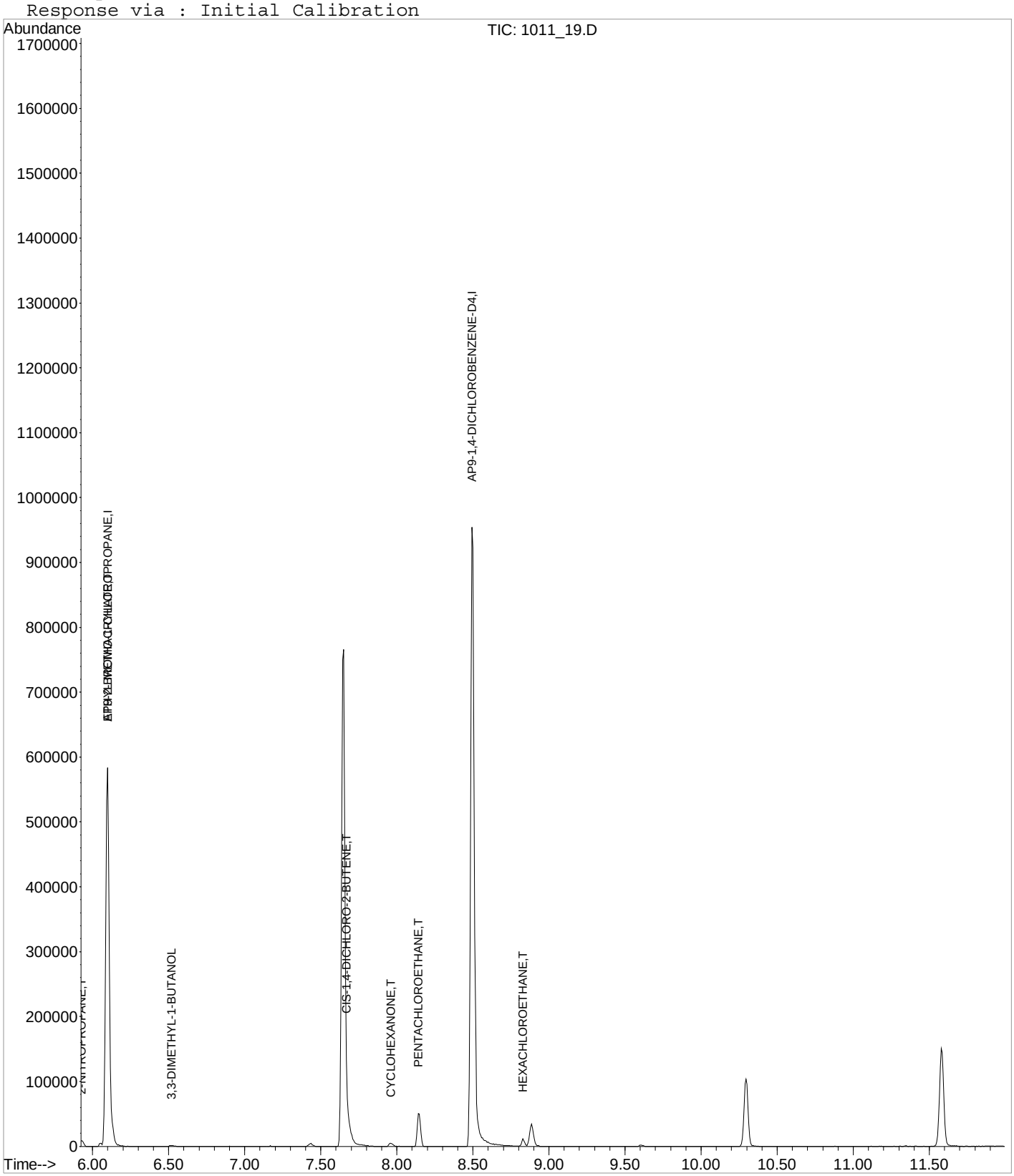
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:47:17 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_19.D Vial: 19
Acq On : 12 Oct 2015 12:50 am Operator: 591
Sample : STD VMS 1 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:48 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:47:17 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 20.D Vial: 20
Acq On : 12 Oct 2015 1:14 am Operator: 591
Sample : STD VMS 2.5 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:47:38 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:47:17 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb	-4.57
41) 8260-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb	-4.91
53) 8260-2-BROMO-1-CHLOROPROPA	0.00	79	0m	40.00	ppb	-6.10
84) 8260-1,4-DICHLOROBENZENE-D	0.00	152	0m	40.00	ppb	-8.50
96) AP9-PENTAFLUOROBENZENE	4.57	168	357428	40.00	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	692239	40.00	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.10	79	105476	40.00	ppb	0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	270366	40.00	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.00	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 76 - 123		Recovery =	0.00%#		
46) A,A,A-TRIFLUOROTOLUENE	0.00	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 87 - 117		Recovery =	0.00%#		
50) TOLUENE-D8	0.00	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 115		Recovery =	0.00%#		
68) 4-BROMOFLUOROBENZENE	0.00	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 70 - 129		Recovery =	0.00%#		

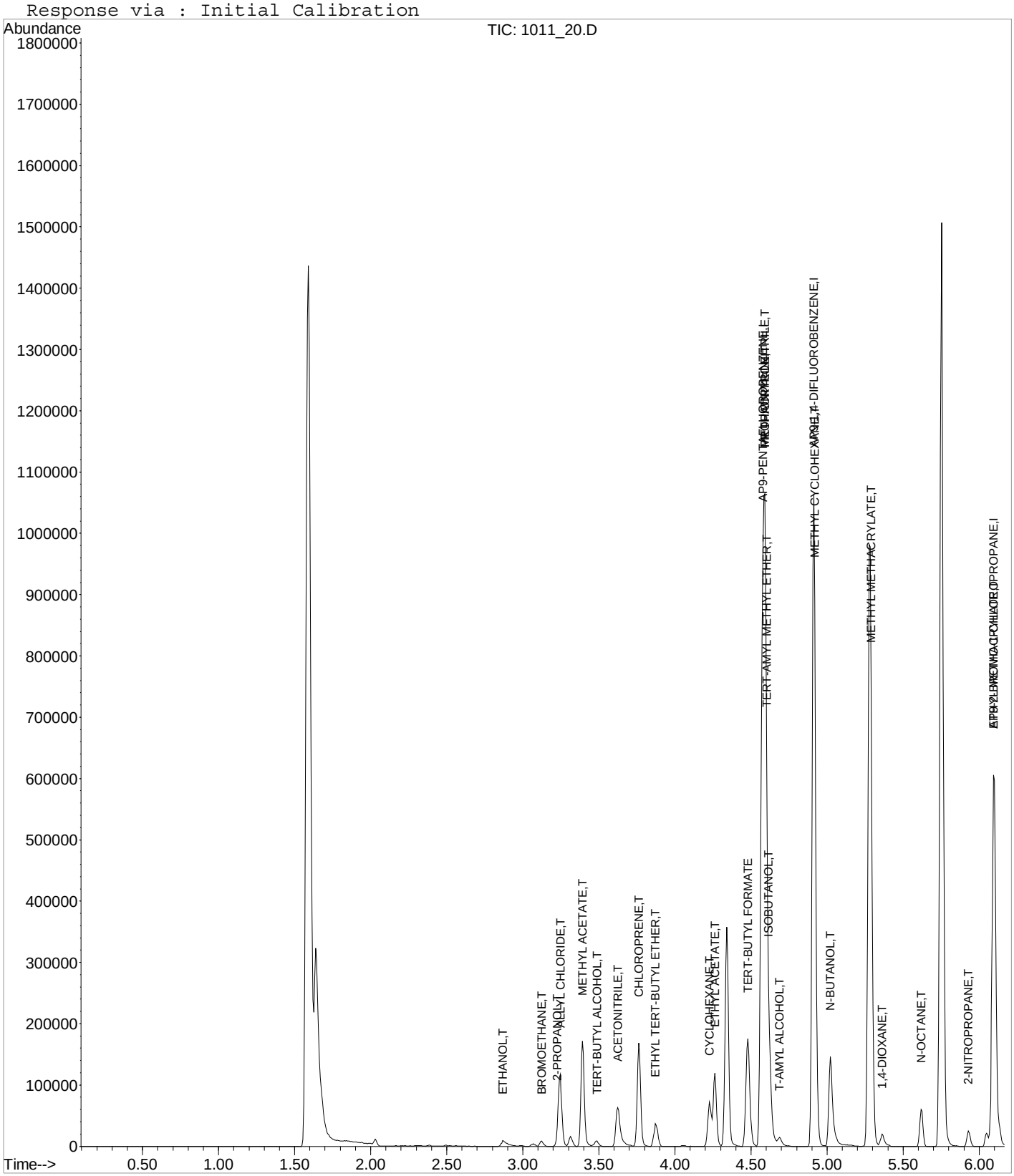
Target Compounds						Qvalue
97) ETHANOL	2.87	45	15769	420.5922104	ppb #	91
98) BROMOETHANE	3.12	108	7455	2.5331162	ppb	95
99) 2-PROPANOL	3.22	45	4351	12.7906613	ppb #	73
100) METHYL ACETATE	3.39	43	179653	78.8997286	ppb #	100
101) ACETONITRILE	3.62	41	76936	186.6822480	ppb	99
102) ALLYL CHLORIDE	3.25	76	27326	12.9027619	ppb	96
103) TERT-BUTYL ALCOHOL	3.49	59	10804	35.5551049	ppb #	94
104) CHLOROPRENE	3.76	53	88045	11.7613039	ppb	100
105) ETHYL TERT-BUTYL ETHER	3.87	59	29599	2.7917114	ppb	99
106) PROPIONITRILE	4.58	54	97842	195.4773146	ppb #	92
107) ETHYL ACETATE	4.26	43	113237	37.1692892	ppb	99
108) METHACRYLONITRILE	4.60	67	261332	177.6436007	ppb	97
109) CYCLOHEXANE	4.22	84	26432	2.3369759	ppb	98
110) TERT-BUTYL FORMATE	4.48	59	83209	24.5085683	ppb	96
111) ISOBUTANOL	4.62	43	81410	452.9587516	ppb #	96
112) T-AMYL ALCOHOL	4.69	59	7129	34.9124678	ppb	99
113) TERT-AMYL METHYL ETHER	4.61	73	37282	3.0974214	ppb #	99
115) N-BUTANOL	5.02	56	88503	990.9870670	ppb	97
116) METHYL CYCLOHEXANE	4.92	83	37507	2.9049465	ppb	92
117) 2-NITROPROPANE	5.93	43	15093	16.2446501	ppb	91
118) METHYL METHACRYLATE	5.30	41	50323	16.5028919	ppb #	65
119) 1,4-DIOXANE	5.36	88	15341	397.8330625	ppb	94
120) N-OCTANE	5.62	85	12674	2.4168882	ppb	97
121) 3,3-DIMETHYL-1-BUTANOL	6.50	57	8597	14.7435590	ppb	89
123) ETHYL METHACRYLATE	6.09	69	51516	14.9351433	ppb #	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.67	53	13530	19.5593391	ppb #	1
125) CYCLOHEXANONE	7.95	55	18956	21.7188654	ppb	94
126) PENTACHLOROETHANE	8.14	117	23178	11.5322255	ppb	96
127) HEXACHLOROETHANE	8.83	117	6074	2.1300289	ppb	98

(#) = qualifier out of range (m) = manual integration
1011_20.D V808J11O.M Mon Oct 12 10:49:24 2015 1737 of 1797 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 20.D Vial: 20
Acq On : 12 Oct 2015 1:14 am Operator: 591
Sample : STD VMS 2.5 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:49 2015 Quant Results File: V808J11O.RES

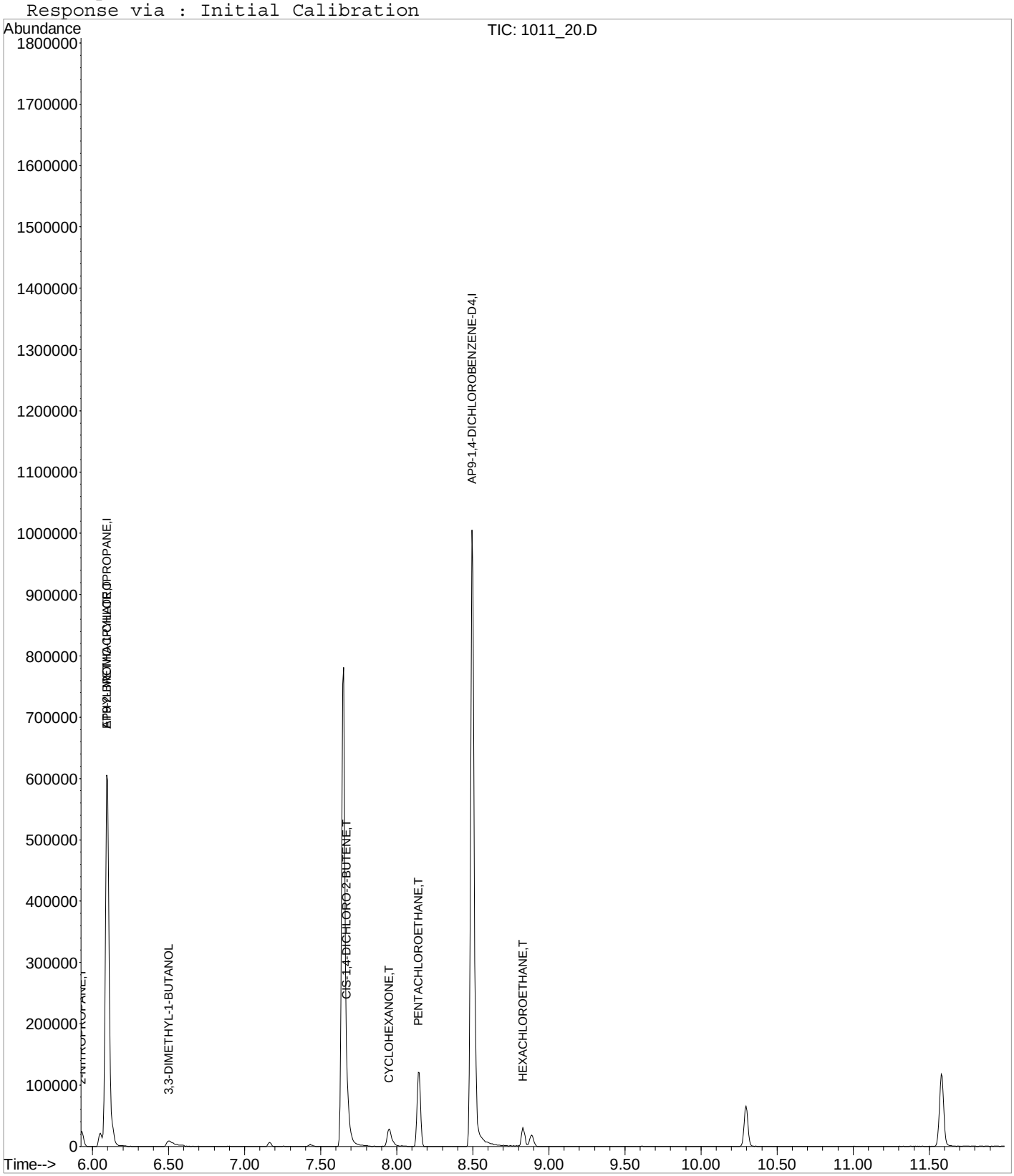
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:48:54 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_20.D Vial: 20
Acq On : 12 Oct 2015 1:14 am Operator: 591
Sample : STD VMS 2.5 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:49 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:48:54 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 21.D Vial: 21
Acq On : 12 Oct 2015 1:38 am Operator: 591
Sample : STD VMS 5 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:47:41 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:47:17 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

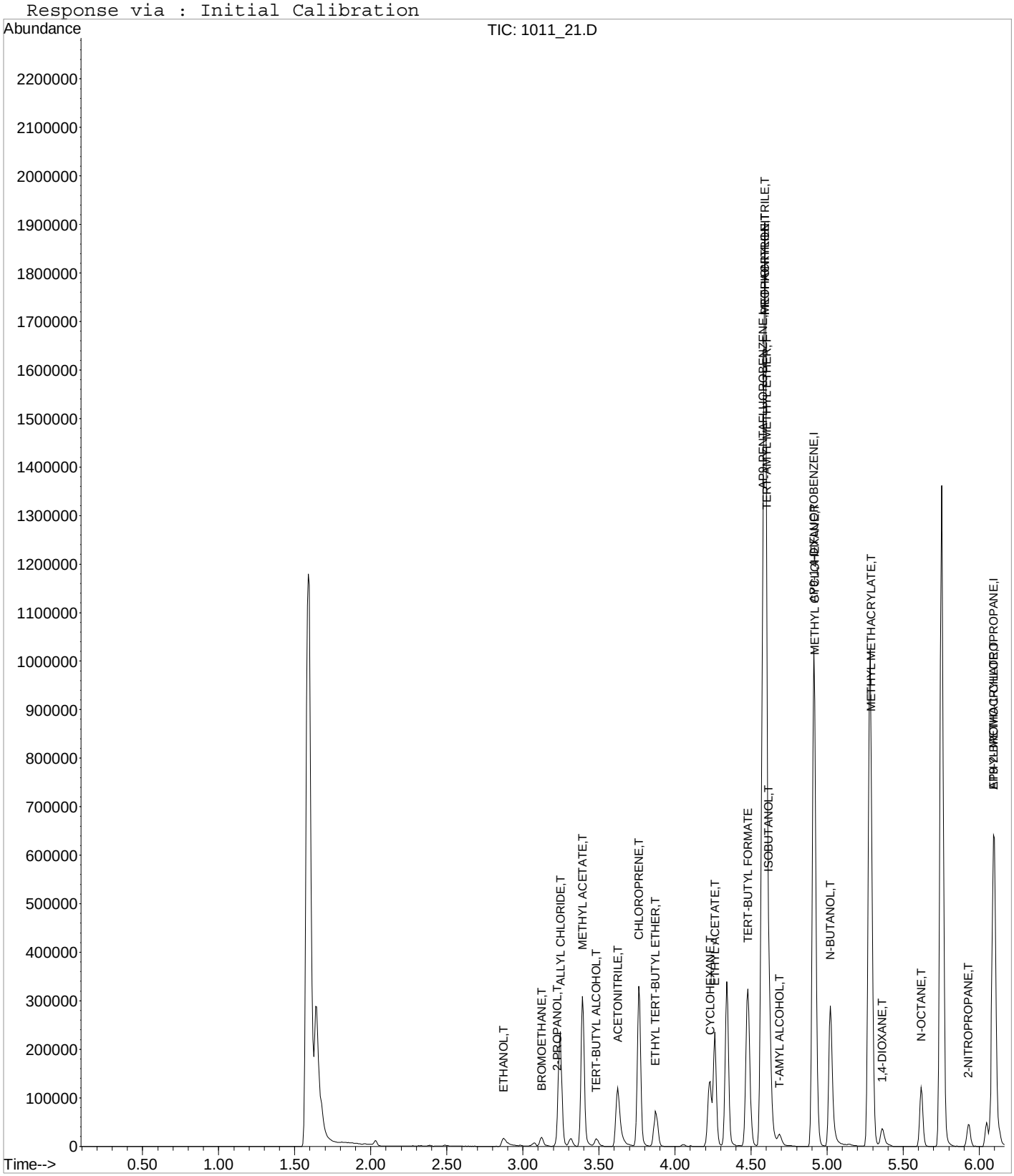
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.57
41) 8260-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.91
53) 8260-2-BROMO-1-CHLOROPROPA	0.00	79	0m	40.00	ppb		-6.10
84) 8260-1,4-DICHLOROBENZENE-D	0.00	152	0m	40.00	ppb		-8.50
96) AP9-PENTAFLUOROBENZENE	4.57	168	339112	40.00	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	634892	40.00	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.10	79	102718	40.00	ppb		0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	244230	40.00	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.00	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 76 - 123		Recovery =	0.00%#			
46) A,A,A-TRIFLUOROTOLUENE	0.00	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 87 - 117		Recovery =	0.00%#			
50) TOLUENE-D8	0.00	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 89 - 115		Recovery =	0.00%#			
68) 4-BROMOFLUOROBENZENE	0.00	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 70 - 129		Recovery =	0.00%#			
Target Compounds							Qvalue
97) ETHANOL	2.87	45	29855	839.3045166	ppb		93
98) BROMOETHANE	3.12	108	15686	5.6177846	ppb		99
99) 2-PROPANOL	3.22	45	8457	26.2038835	ppb	#	88
100) METHYL ACETATE	3.39	43	321174	148.6711939	ppb	#	97
101) ACETONITRILE	3.62	41	141743	362.5103847	ppb		99
102) ALLYL CHLORIDE	3.25	76	53954	26.8519407	ppb		98
103) TERT-BUTYL ALCOHOL	3.48	59	19190	66.5637493	ppb		98
104) CHLOROPRENE	3.76	53	170961	24.0709504	ppb		98
105) ETHYL TERT-BUTYL ETHER	3.87	59	57604	5.7265300	ppb		99
106) PROPIONITRILE	4.58	54	185829	391.3181082	ppb		96
107) ETHYL ACETATE	4.26	43	211019	73.0067263	ppb		98
108) METHACRYLONITRILE	4.59	67	478491	342.8279024	ppb		96
109) CYCLOHEXANE	4.22	84	52480	4.8906146	ppb		97
110) TERT-BUTYL FORMATE	4.48	59	161469	50.1282112	ppb		98
111) ISOBUTANOL	4.62	43	145270	851.9267394	ppb	#	99
112) T-AMYL ALCOHOL	4.69	59	12656	65.3271652	ppb		99
113) TERT-AMYL METHYL ETHER	4.61	73	68058	5.9597177	ppb	#	97
115) N-BUTANOL	5.02	56	171854	2098.0983780	ppb		98
116) METHYL CYCLOHEXANE	4.92	83	62974	5.3179383	ppb		98
117) 2-NITROPROPANE	5.93	43	28663	33.6366426	ppb		95
118) METHYL METHACRYLATE	5.30	41	94962	33.9546762	ppb		91
119) 1,4-DIOXANE	5.37	88	28805	814.4628716	ppb		96
120) N-OCTANE	5.62	85	24814	5.1593601	ppb		99
121) 3,3-DIMETHYL-1-BUTANOL	6.49	57	19468	36.4026458	ppb		95
123) ETHYL METHACRYLATE	6.09	69	104044	30.9735795	ppb	#	1
124) CIS-1,4-DICHLORO-2-BUTENE	7.67	53	27888	41.3981417	ppb	#	1
125) CYCLOHEXANONE	7.94	55	39134	46.0417447	ppb		98
126) PENTACHLOROETHANE	8.14	117	47038	24.0321770	ppb		97
127) HEXACHLOROETHANE	8.83	117	12119	4.3639984	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 21.D Vial: 21
Acq On : 12 Oct 2015 1:38 am Operator: 591
Sample : STD VMS 5 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:49 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:49:29 2015
Response via : Initial Calibration

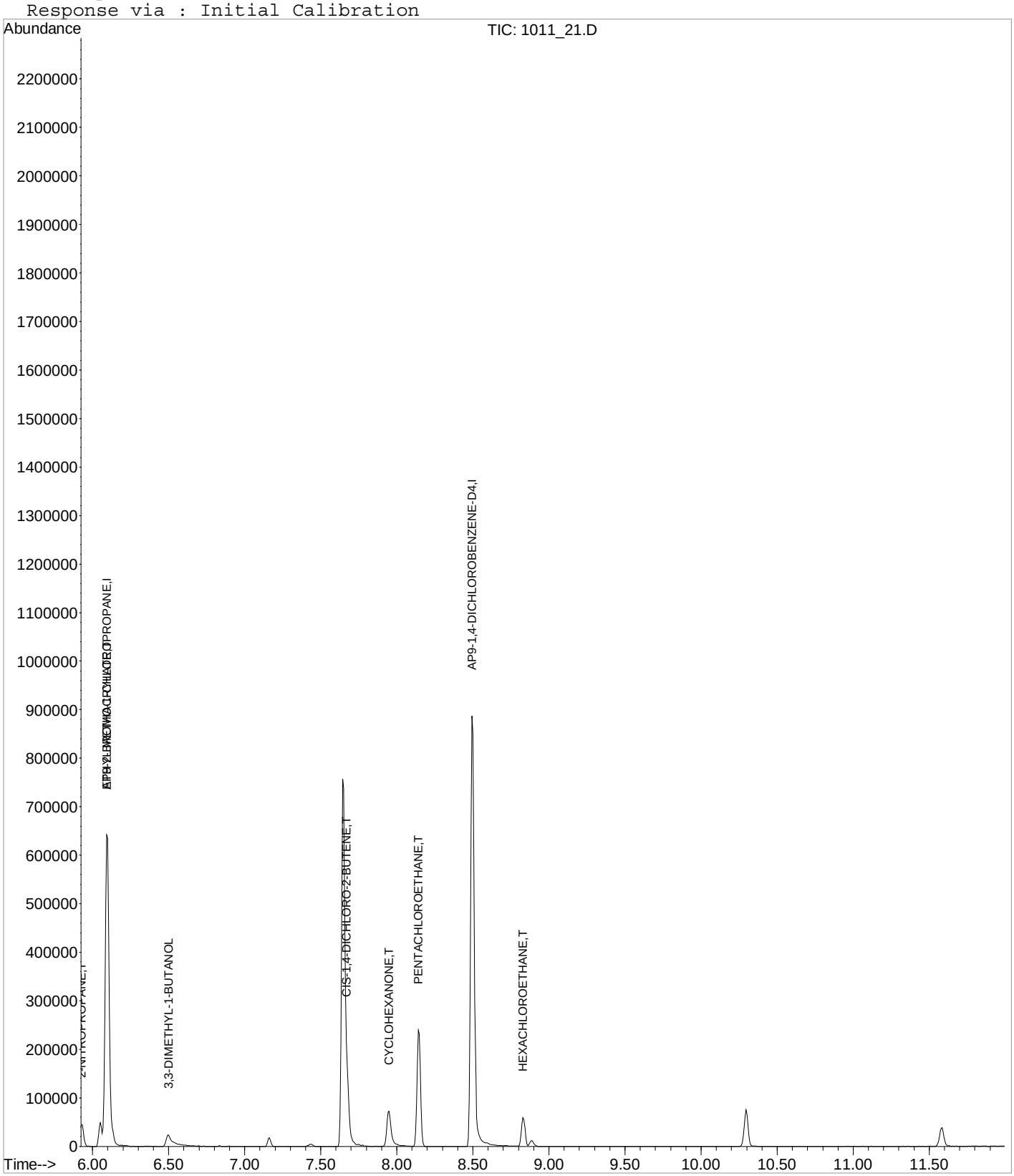


1011_21.D V808J11O.M Mon Oct 12 10:49:59 2015 1741 of 1797 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_21.D Vial: 21
Acq On : 12 Oct 2015 1:38 am Operator: 591
Sample : STD VMS 5 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:49 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:49:29 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 22.D Vial: 22
Acq On : 12 Oct 2015 2:02 am Operator: 591
Sample : STD VMS 7.5 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:47:44 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:47:17 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

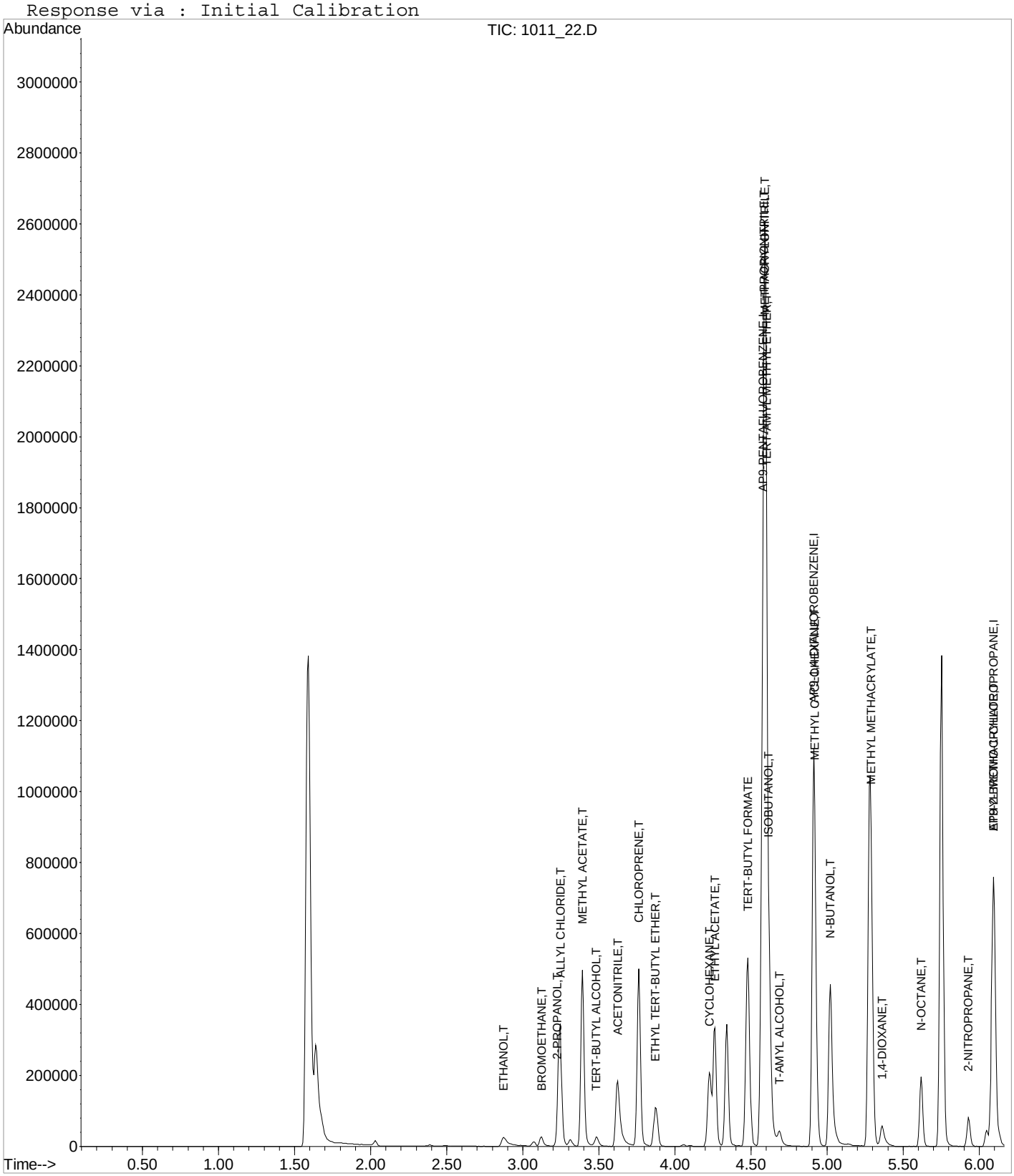
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.57
41) 8260-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.91
53) 8260-2-BROMO-1-CHLOROPROPA	0.00	79	0m	40.00	ppb		-6.10
84) 8260-1,4-DICHLOROBENZENE-D	0.00	152	0m	40.00	ppb		-8.50
96) AP9-PENTAFLUOROBENZENE	4.57	168	352108	40.00	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	654923	40.00	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.10	79	100747	40.00	ppb		0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	258172	40.00	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.00	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 76 - 123		Recovery =	0.00%#			
46) A,A,A-TRIFLUOROTOLUENE	0.00	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 87 - 117		Recovery =	0.00%#			
50) TOLUENE-D8	0.00	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 89 - 115		Recovery =	0.00%#			
68) 4-BROMOFLUOROBENZENE	0.00	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 70 - 129		Recovery =	0.00%#			
Target Compounds							Qvalue
97) ETHANOL	2.87	45	47920	1297.4378393	ppb		96
98) BROMOETHANE	3.12	108	22886	7.8938712	ppb		100
99) 2-PROPANOL	3.22	45	12726	37.9759384	ppb		96
100) METHYL ACETATE	3.39	43	507376	226.1953300	ppb	#	98
101) ACETONITRILE	3.62	41	225837	556.2643064	ppb		99
102) ALLYL CHLORIDE	3.25	76	81664	39.1426249	ppb		96
103) TERT-BUTYL ALCOHOL	3.49	59	28755	96.0601895	ppb		94
104) CHLOROPRENE	3.76	53	254516	34.5126688	ppb		100
105) ETHYL TERT-BUTYL ETHER	3.87	59	90690	8.6829153	ppb		98
106) PROPIONITRILE	4.58	54	284924	577.8468550	ppb	#	94
107) ETHYL ACETATE	4.26	43	319408	106.4276246	ppb		100
108) METHACRYLONITRILE	4.60	67	720625	497.2547935	ppb		96
109) CYCLOHEXANE	4.23	84	79792	7.1613720	ppb		98
110) TERT-BUTYL FORMATE	4.48	59	250923	75.0240990	ppb		98
111) ISOBUTANOL	4.62	43	243282	1374.0532267	ppb	#	96
112) T-AMYL ALCOHOL	4.69	59	19665	97.7594081	ppb		97
113) TERT-AMYL METHYL ETHER	4.61	73	104793	8.8378382	ppb	#	92
115) N-BUTANOL	5.02	56	272351	3223.3301424	ppb		99
116) METHYL CYCLOHEXANE	4.92	83	95603	7.8264199	ppb		99
117) 2-NITROPROPANE	5.93	43	48815	55.5333539	ppb		99
118) METHYL METHACRYLATE	5.30	41	141606	49.0841198	ppb		92
119) 1,4-DIOXANE	5.36	88	44367	1216.1106380	ppb		100
120) N-OCTANE	5.62	85	38242	7.7081342	ppb		99
121) 3,3-DIMETHYL-1-BUTANOL	6.49	57	38656	70.0709713	ppb		98
123) ETHYL METHACRYLATE	6.09	69	168909	51.2674339	ppb	#	41
124) CIS-1,4-DICHLORO-2-BUTENE	7.67	53	47816	72.3687634	ppb	#	1
125) CYCLOHEXANONE	7.94	55	66166	79.3682572	ppb		99
126) PENTACHLOROETHANE	8.14	117	78757	41.0249313	ppb		97
127) HEXACHLOROETHANE	8.83	117	20267	7.4408354	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 22.D Vial: 22
Acq On : 12 Oct 2015 2:02 am Operator: 591
Sample : STD VMS 7.5 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:50 2015 Quant Results File: V808J11O.RES

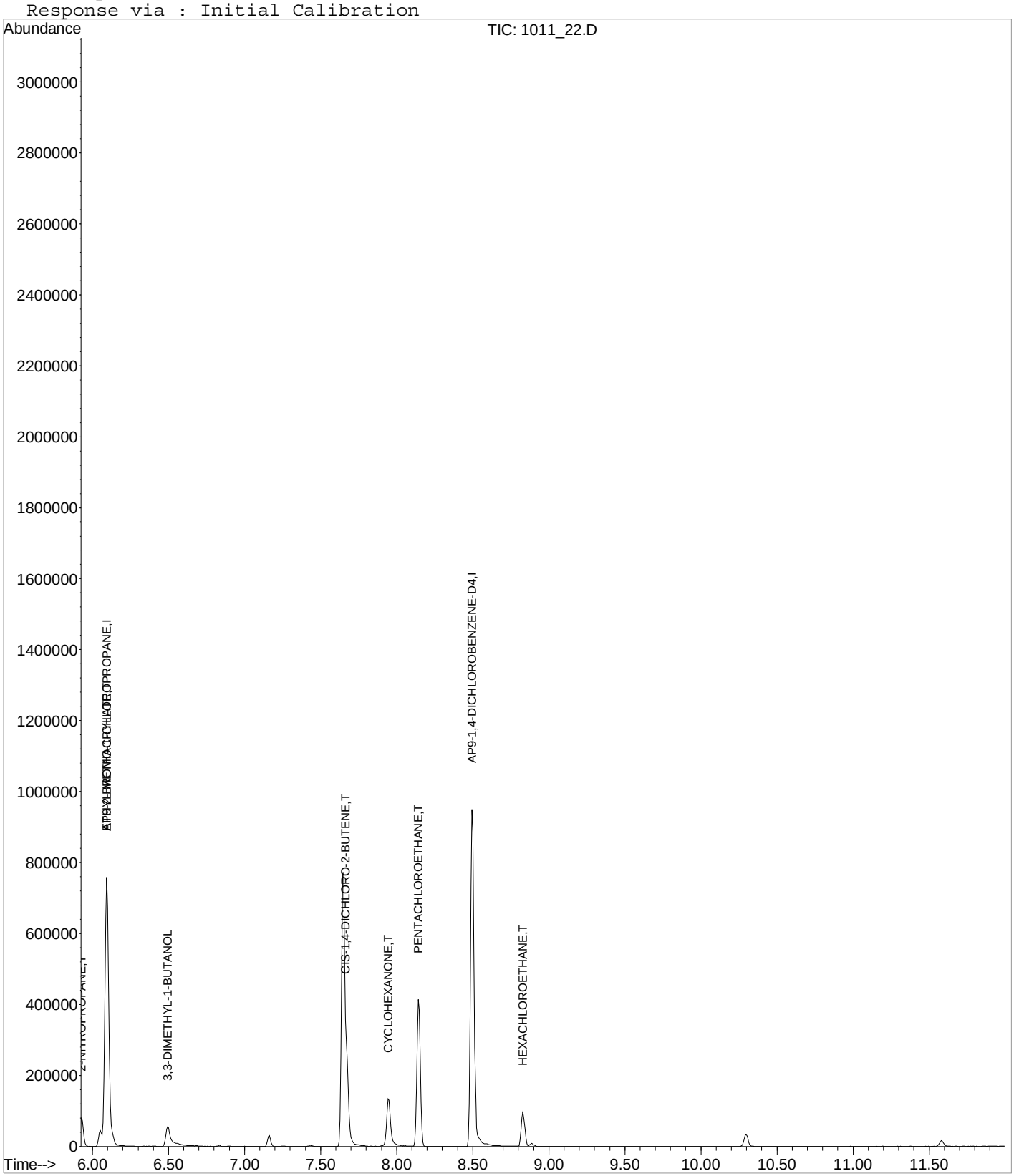
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:50:03 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_22.D Vial: 22
Acq On : 12 Oct 2015 2:02 am Operator: 591
Sample : STD VMS 7.5 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:50 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:50:03 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 23.D Vial: 23
Acq On : 12 Oct 2015 2:26 am Operator: 591
Sample : MSTD VMS 10a ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:47:47 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:47:17 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

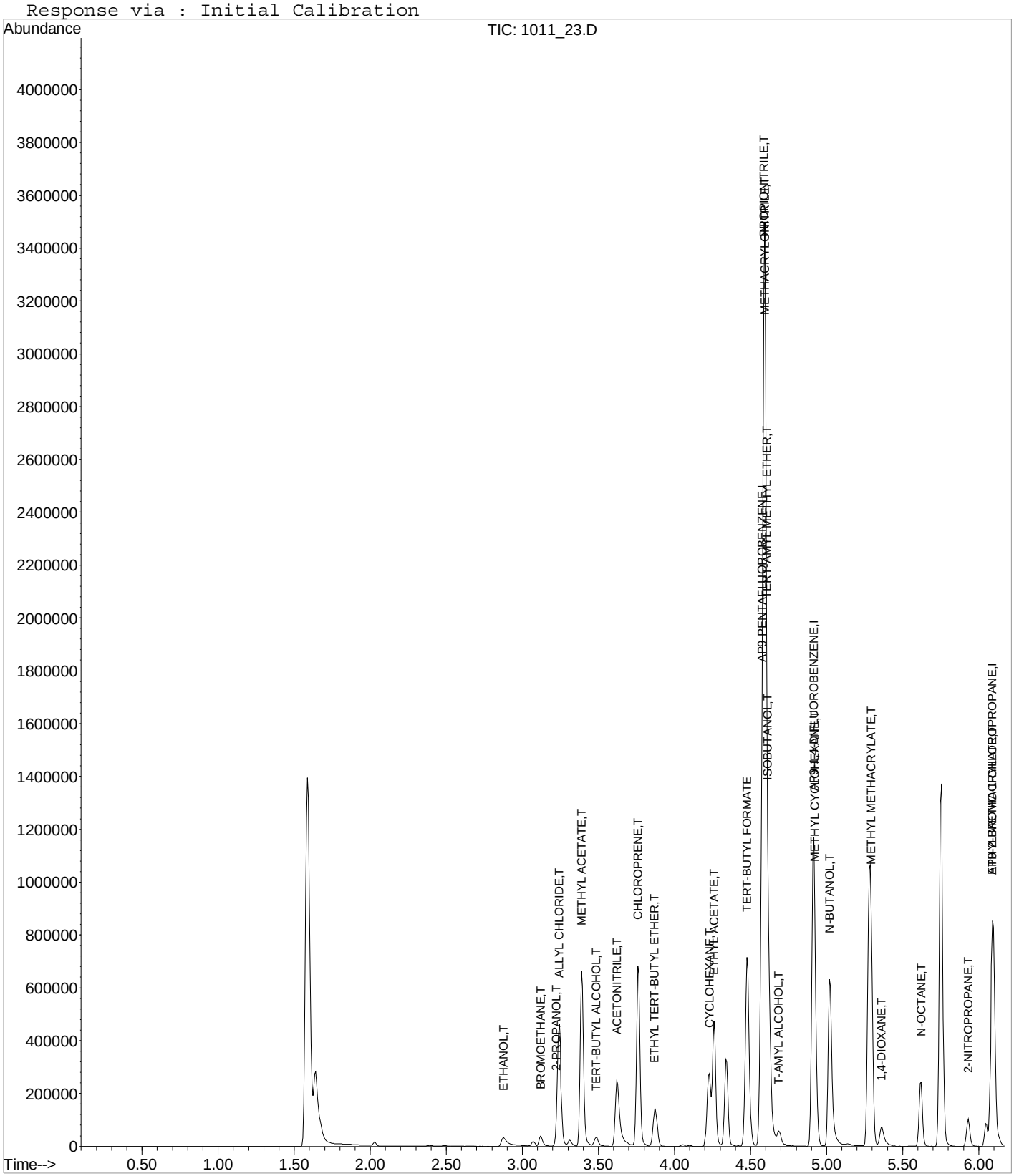
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.57
41) 8260-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.91
53) 8260-2-BROMO-1-CHLOROPROPA	0.00	79	0m	40.00	ppb		-6.10
84) 8260-1,4-DICHLOROBENZENE-D	0.00	152	0m	40.00	ppb		-8.50
96) AP9-PENTAFLUOROBENZENE	4.57	168	350526	40.00	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.92	114	660338	40.00	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.10	79	105926	40.00	ppb		0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	257708	40.00	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.00	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 76 - 123		Recovery =	0.00%#			
46) A,A,A-TRIFLUOROTOLUENE	0.00	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 87 - 117		Recovery =	0.00%#			
50) TOLUENE-D8	0.00	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 89 - 115		Recovery =	0.00%#			
68) 4-BROMOFLUOROBENZENE	0.00	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 70 - 129		Recovery =	0.00%#			
Target Compounds							Qvalue
97) ETHANOL	2.88	45	64483	1753.7619378	ppb		96
98) BROMOETHANE	3.12	108	31955	11.0717078	ppb		99
99) 2-PROPANOL	3.22	45	18412	55.1916295	ppb		92
100) METHYL ACETATE	3.39	43	694454	310.9946037	ppb	#	99
101) ACETONITRILE	3.62	41	303698	751.4216174	ppb		100
102) ALLYL CHLORIDE	3.24	76	110675	53.2873942	ppb		91
103) TERT-BUTYL ALCOHOL	3.49	59	39917	133.9502772	ppb		97
104) CHLOROPRENE	3.76	53	345810	47.1038774	ppb		98
105) ETHYL TERT-BUTYL ETHER	3.87	59	115795	11.1365745	ppb		100
106) PROPIONITRILE	4.58	54	370664	755.1266277	ppb		97
107) ETHYL ACETATE	4.26	43	438981	146.9298241	ppb		99
108) METHACRYLONITRILE	4.59	67	988571	685.2249619	ppb		97
109) CYCLOHEXANE	4.23	84	109343	9.8578799	ppb		96
110) TERT-BUTYL FORMATE	4.48	59	339494	101.9642845	ppb		98
111) ISOBUTANOL	4.62	43	342583	1943.6364837	ppb	#	98
112) T-AMYL ALCOHOL	4.69	59	27896	139.3035559	ppb		95
113) TERT-AMYL METHYL ETHER	4.61	73	141453	11.9834424	ppb	#	86
115) N-BUTANOL	5.02	56	378792	4446.3184688	ppb		100
116) METHYL CYCLOHEXANE	4.93	83	125250	10.1693528	ppb		99
117) 2-NITROPROPANE	5.93	43	66057	74.5321086	ppb		99
118) METHYL METHACRYLATE	5.30	41	191314	65.7703354	ppb		95
119) 1,4-DIOXANE	5.37	88	59540	1618.6233705	ppb		100
120) N-OCTANE	5.62	85	51357	10.2667331	ppb		97
121) 3,3-DIMETHYL-1-BUTANOL	6.50	57	55274	99.3724670	ppb		99
123) ETHYL METHACRYLATE	6.08	69	231131	66.7231495	ppb	#	65
124) CIS-1,4-DICHLORO-2-BUTENE	7.67	53	66030	95.0492635	ppb	#	1
125) CYCLOHEXANONE	7.94	55	93881	107.1073368	ppb		96
126) PENTACHLOROETHANE	8.15	117	99109	49.1022442	ppb		98
127) HEXACHLOROETHANE	8.83	117	28840	10.0706391	ppb		97

(#) = qualifier out of range (m) = manual integration
1011_23.D V808J11O.M Mon Oct 12 10:51:10 2015 1746 of 1797 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 23.D Vial: 23
Acq On : 12 Oct 2015 2:26 am Operator: 591
Sample : MSTD VMS 10a ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:50 2015 Quant Results File: V808J11O.RES

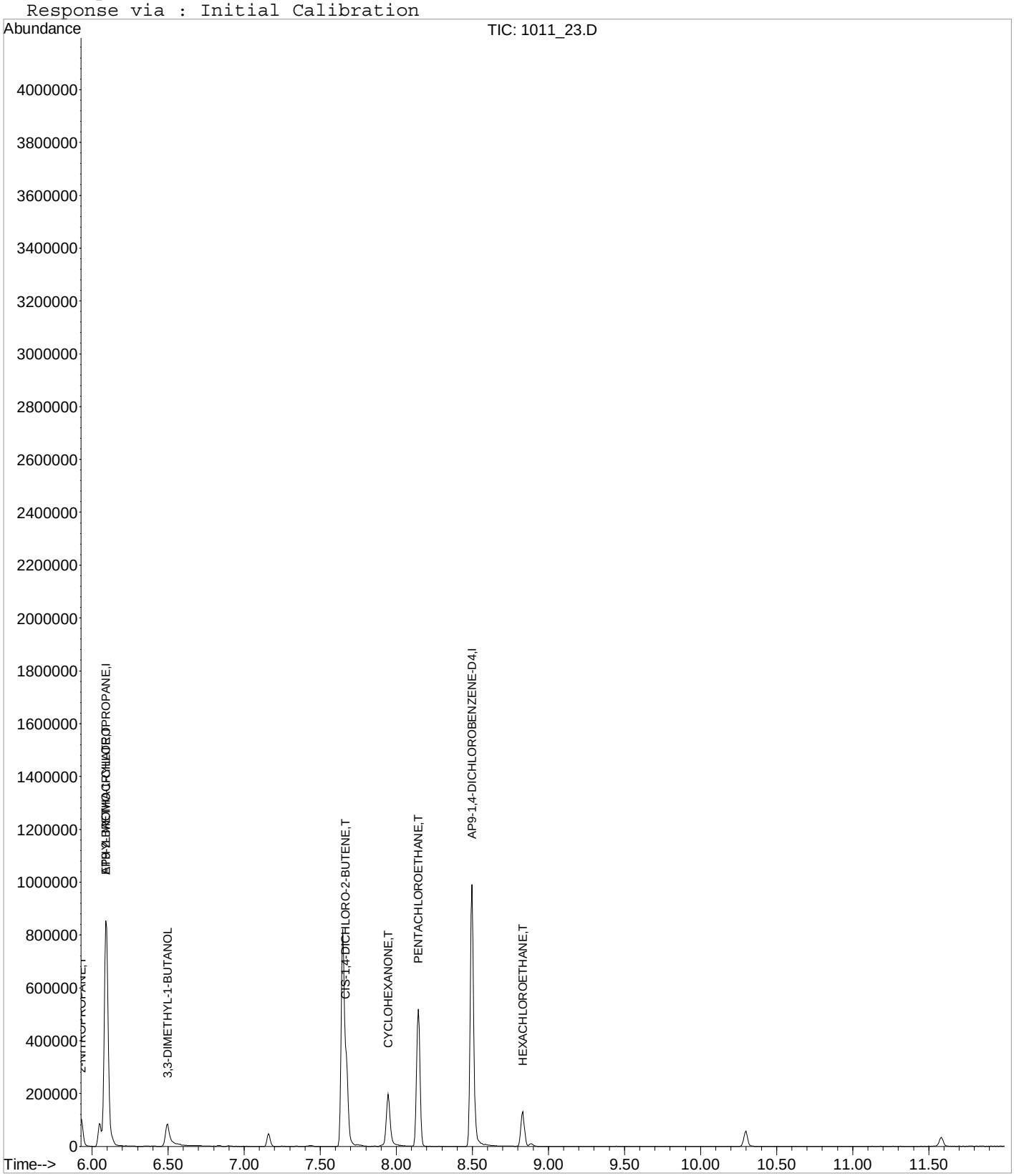
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:50:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_23.D Vial: 23
Acq On : 12 Oct 2015 2:26 am Operator: 591
Sample : MSTD VMS 10a ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:50 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:50:37 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 24.D Vial: 24
Acq On : 12 Oct 2015 2:50 am Operator: 591
Sample : STD VMS 12.5 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:47:50 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:47:17 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

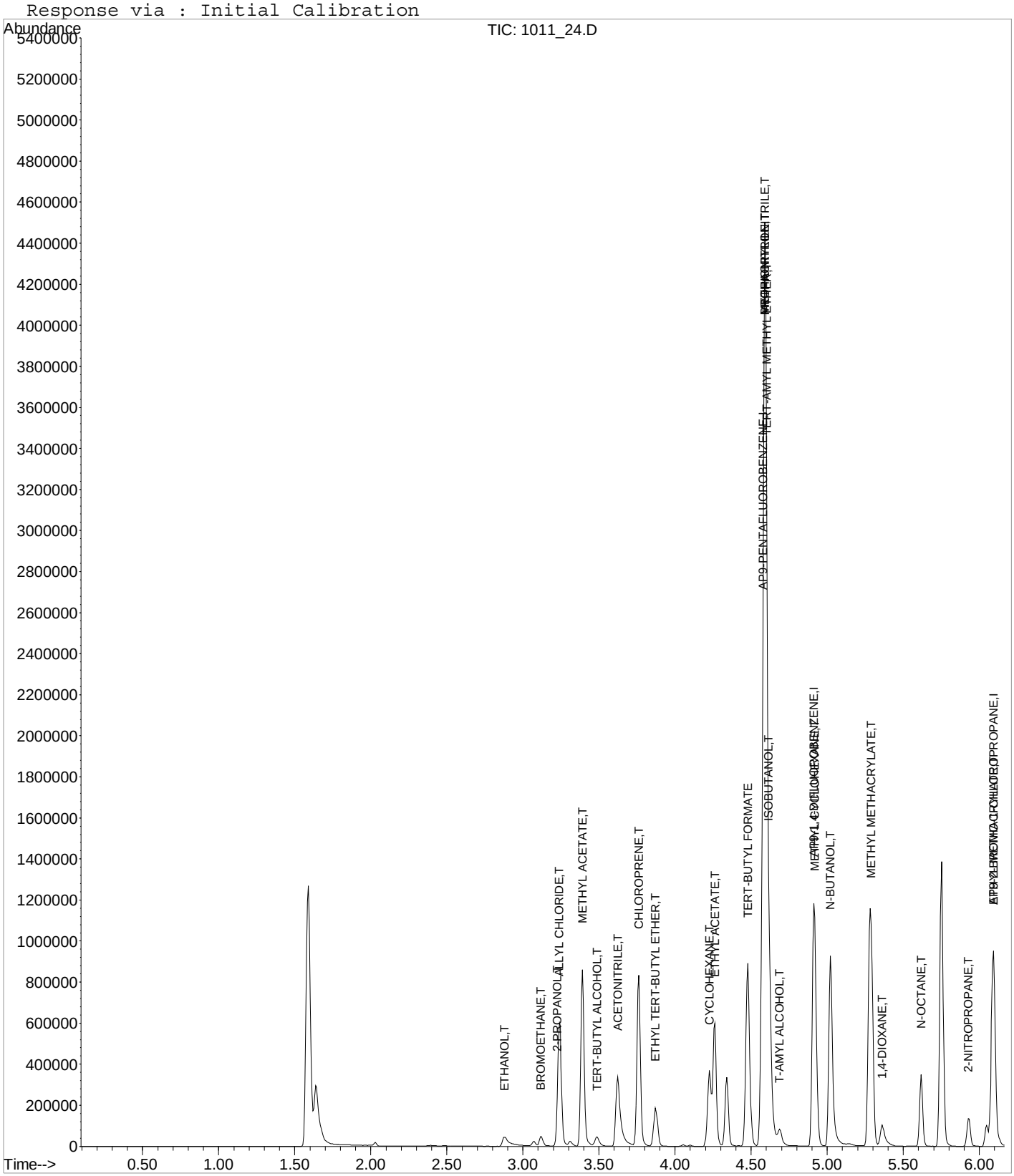
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb	-4.57
41) 8260-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb	-4.91
53) 8260-2-BROMO-1-CHLOROPROPA	0.00	79	0m	40.00	ppb	-6.10
84) 8260-1,4-DICHLOROBENZENE-D	0.00	152	0m	40.00	ppb	-8.50
96) AP9-PENTAFLUOROBENZENE	4.57	168	346663	40.00	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	633670	40.00	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.10	79	99246	40.00	ppb	0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.49	152	251518	40.00	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	0.00	111	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 76 - 123		Recovery =	0.00%#		
46) A,A,A-TRIFLUOROTOLUENE	0.00	146	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 87 - 117		Recovery =	0.00%#		
50) TOLUENE-D8	0.00	98	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 89 - 115		Recovery =	0.00%#		
68) 4-BROMOFLUOROBENZENE	0.00	95	0d	0.0000000	ppb	
Spiked Amount 40.000	Range 70 - 129		Recovery =	0.00%#		
Target Compounds						Qvalue
97) ETHANOL	2.88	45	90815	2497.4438866	ppb #	100
98) BROMOETHANE	3.12	108	40385	14.1484423	ppb	99
99) 2-PROPANOL	3.22	45	25963	78.6936827	ppb	98
100) METHYL ACETATE	3.39	43	880109	398.5277595	ppb #	97
101) ACETONITRILE	3.62	41	428627	1072.3437466	ppb	100
102) ALLYL CHLORIDE	3.24	76	137680	67.0283542	ppb	100
103) TERT-BUTYL ALCOHOL	3.49	59	53410	181.2262260	ppb	96
104) CHLOROPRENE	3.76	53	443181	61.0397841	ppb	98
105) ETHYL TERT-BUTYL ETHER	3.87	59	148013	14.3937656	ppb	98
106) PROPIONITRILE	4.58	54	518198	1067.4507708	ppb	98
107) ETHYL ACETATE	4.26	43	573618	194.1331727	ppb	99
108) METHACRYLONITRILE	4.60	67	1323582	927.6601644	ppb	99
109) CYCLOHEXANE	4.22	84	138989	12.6702654	ppb	97
110) TERT-BUTYL FORMATE	4.48	59	419910	127.5219473	ppb	99
111) ISOBUTANOL	4.62	43	479439	2750.3967055	ppb #	97
112) T-AMYL ALCOHOL	4.69	59	38079	192.2731090	ppb	94
113) TERT-AMYL METHYL ETHER	4.61	73	167466	14.3452731	ppb #	61
115) N-BUTANOL	5.02	56	550486	6733.6290762	ppb	98
116) METHYL CYCLOHEXANE	4.92	83	159230	13.4723581	ppb	99
117) 2-NITROPROPANE	5.93	43	88653	104.2368171	ppb	97
118) METHYL METHACRYLATE	5.29	41	247040	88.5021308	ppb	99
119) 1,4-DIOXANE	5.36	88	88273	2500.7369217	ppb	97
120) N-OCTANE	5.62	85	65969	13.7428140	ppb	99
121) 3,3-DIMETHYL-1-BUTANOL	6.49	57	80701	151.1914517	ppb	98
123) ETHYL METHACRYLATE	6.09	69	289700	89.2598999	ppb #	77
124) CIS-1,4-DICHLORO-2-BUTENE	7.67	53	81113	124.6199245	ppb #	1
125) CYCLOHEXANONE	7.94	55	133301	162.3171773	ppb	96
126) PENTACHLOROETHANE	8.14	117	128985	68.2051261	ppb	98
127) HEXACHLOROETHANE	8.83	117	35008	13.0472396	ppb	99

(#) = qualifier out of range (m) = manual integration
1011_24.D V808J11O.M Mon Oct 12 10:51:46 2015 1749 of 1797 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 24.D Vial: 24
Acq On : 12 Oct 2015 2:50 am Operator: 591
Sample : STD VMS 12.5 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:51 2015 Quant Results File: V808J11O.RES

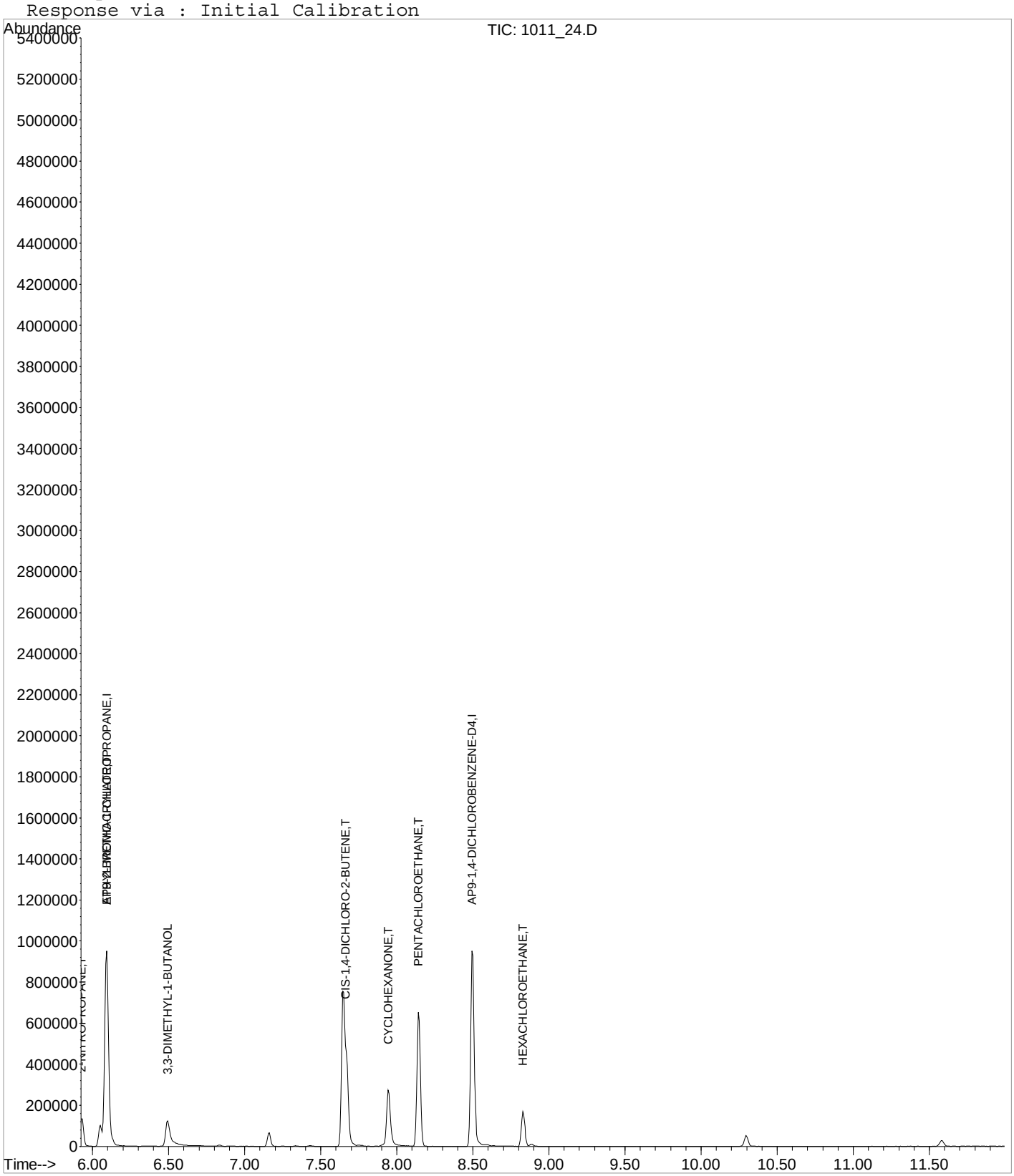
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:51:14 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_24.D Vial: 24
Acq On : 12 Oct 2015 2:50 am Operator: 591
Sample : STD VMS 12.5 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:51 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:51:14 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 25.D Vial: 25
Acq On : 12 Oct 2015 3:14 am Operator: 591
Sample : STD VMS 15 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:47:53 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:47:17 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

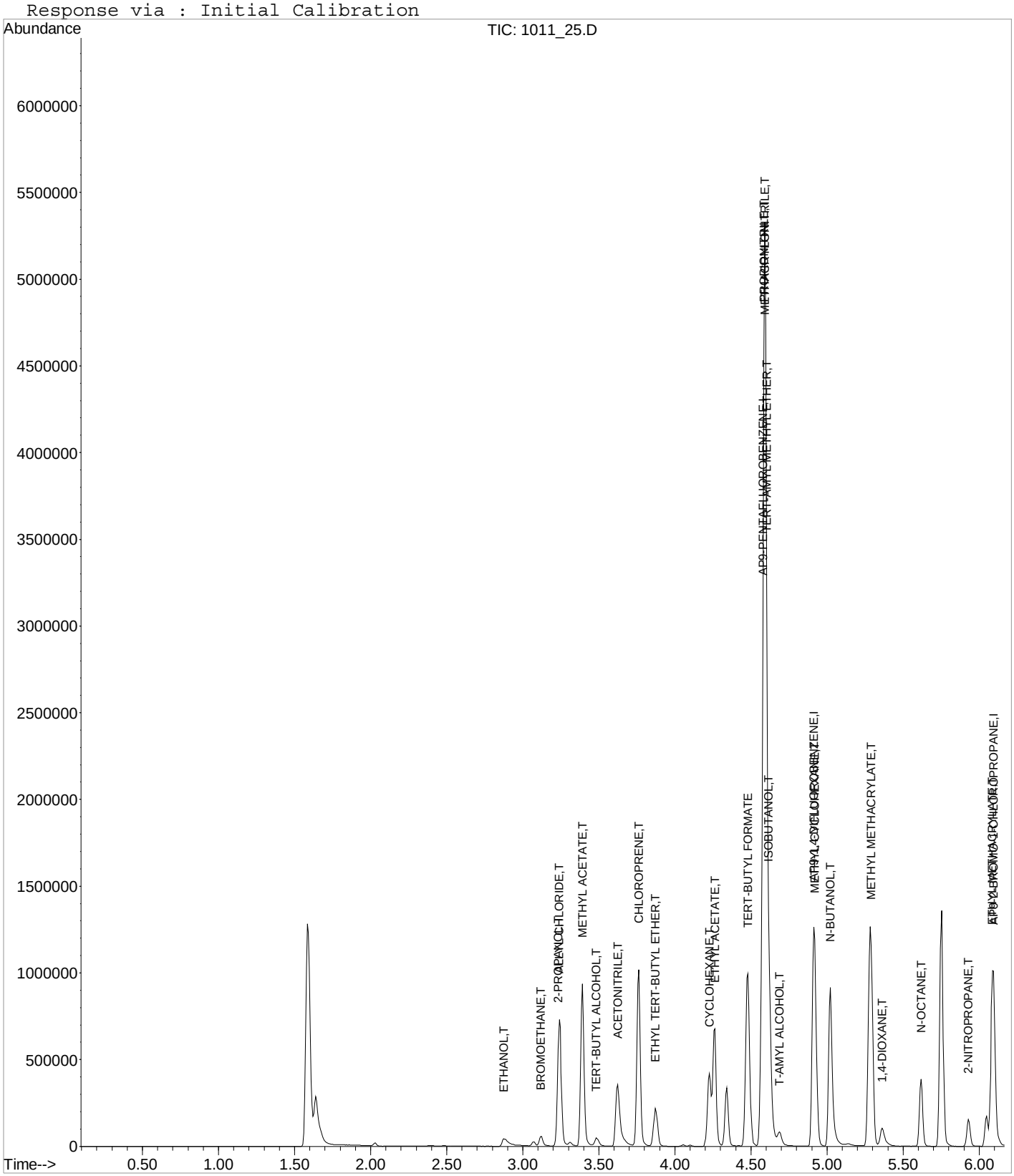
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.57
41) 8260-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.91
53) 8260-2-BROMO-1-CHLOROPROPA	0.00	79	0m	40.00	ppb		-6.10
84) 8260-1,4-DICHLOROBENZENE-D	0.00	152	0m	40.00	ppb		-8.50
96) AP9-PENTAFLUOROBENZENE	4.57	168	351306	40.00	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	661508	40.00	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.10	79	102377	40.00	ppb		0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	255062	40.00	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.00	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 76 - 123		Recovery =	0.00%#			
46) A,A,A-TRIFLUOROTOLUENE	0.00	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 87 - 117		Recovery =	0.00%#			
50) TOLUENE-D8	0.00	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 89 - 115		Recovery =	0.00%#			
68) 4-BROMOFLUOROBENZENE	0.00	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 70 - 129		Recovery =	0.00%#			
Target Compounds							Qvalue
97) ETHANOL	2.87	45	88982	2414.6947541	ppb		100
98) BROMOETHANE	3.12	108	48649	16.8183886	ppb		98
99) 2-PROPANOL	3.23	45	26145	78.1979858	ppb		97
100) METHYL ACETATE	3.39	43	943559	421.6121334	ppb	#	96
101) ACETONITRILE	3.62	41	439048	1083.8980275	ppb		100
102) ALLYL CHLORIDE	3.24	76	164093	78.8314795	ppb		97
103) TERT-BUTYL ALCOHOL	3.48	59	52802	176.7953203	ppb	#	94
104) CHLOROPRENE	3.76	53	524212	71.2460412	ppb		99
105) ETHYL TERT-BUTYL ETHER	3.87	59	175258	16.8179997	ppb		98
106) PROPIONITRILE	4.58	54	557967	1134.1815039	ppb		99
107) ETHYL ACETATE	4.26	43	649649	216.9590044	ppb		99
108) METHACRYLONITRILE	4.59	67	1473390	1019.0082425	ppb		98
109) CYCLOHEXANE	4.23	84	163119	14.6734338	ppb		97
110) TERT-BUTYL FORMATE	4.48	59	499650	149.7326580	ppb		98
111) ISOBUTANOL	4.62	43	463534	2624.0100802	ppb	#	100
112) T-AMYL ALCOHOL	4.69	59	36616	182.4424254	ppb		91
113) TERT-AMYL METHYL ETHER	4.61	73	210232	17.7706339	ppb	#	98
115) N-BUTANOL	5.02	56	536317	6284.2364922	ppb		99
116) METHYL CYCLOHEXANE	4.92	83	186046	15.0788112	ppb		97
117) 2-NITROPROPANE	5.93	43	99165	111.6899682	ppb		99
118) METHYL METHACRYLATE	5.30	41	275246	94.4572963	ppb		98
119) 1,4-DIOXANE	5.36	88	85503	2320.3287357	ppb		100
120) N-OCTANE	5.62	85	79275	15.8197664	ppb		98
121) 3,3-DIMETHYL-1-BUTANOL	6.49	57	82807	148.6084203	ppb		99
123) ETHYL METHACRYLATE	6.09	69	341564	102.0212415	ppb		86
124) CIS-1,4-DICHLORO-2-BUTENE	7.67	53	97492	145.2033420	ppb	#	1
125) CYCLOHEXANONE	7.94	55	130956	154.5849068	ppb		98
126) PENTACHLOROETHANE	8.14	117	141677	72.6252723	ppb		98
127) HEXACHLOROETHANE	8.83	117	41324	14.9301546	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 25.D Vial: 25
Acq On : 12 Oct 2015 3:14 am Operator: 591
Sample : STD VMS 15 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:52 2015 Quant Results File: V808J11O.RES

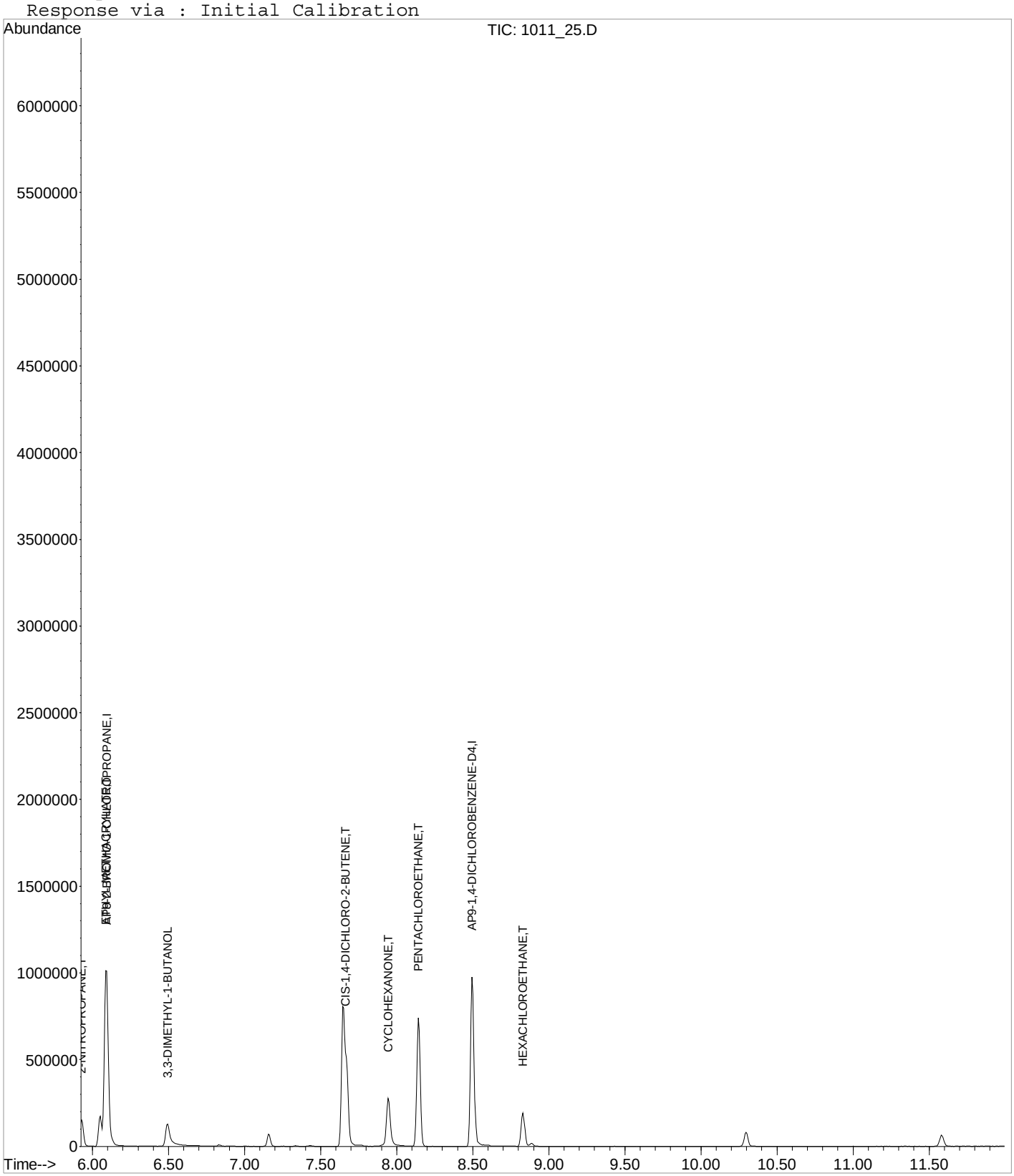
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:51:51 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_25.D Vial: 25
Acq On : 12 Oct 2015 3:14 am Operator: 591
Sample : STD VMS 15 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:52 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:51:51 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 26.D Vial: 26
Acq On : 12 Oct 2015 3:39 am Operator: 591
Sample : STD VMS 17.5 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:47:56 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:47:17 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

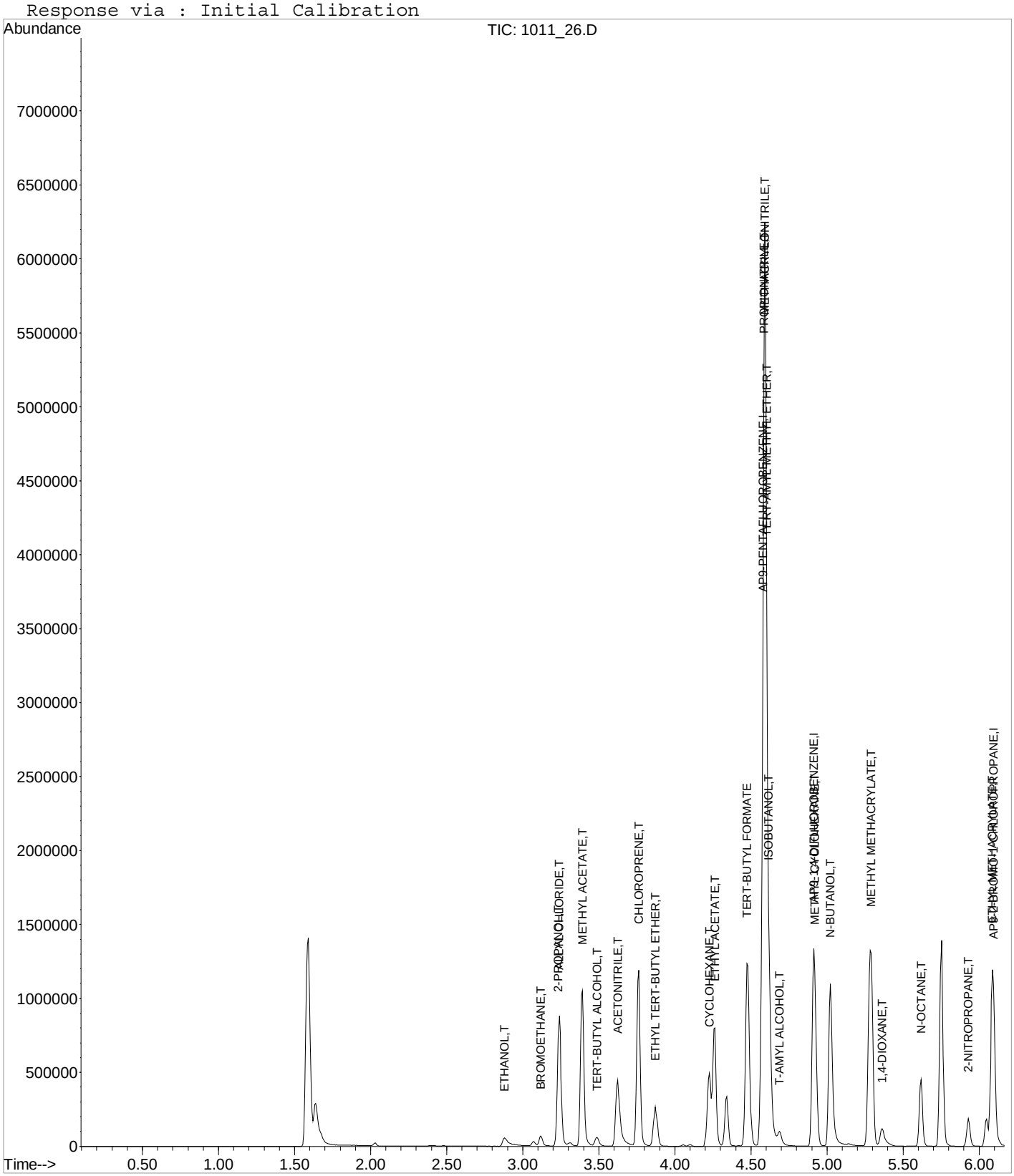
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.57
41) 8260-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.91
53) 8260-2-BROMO-1-CHLOROPROPA	0.00	79	0m	40.00	ppb		-6.10
84) 8260-1,4-DICHLOROBENZENE-D	0.00	152	0m	40.00	ppb		-8.50
96) AP9-PENTAFLUOROBENZENE	4.57	168	360079	40.00	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	640199	40.00	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.10	79	105763	40.00	ppb		0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	249648	40.00	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.00	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 76 - 123		Recovery =	0.00%#			
46) A,A,A-TRIFLUOROTOLUENE	0.00	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 87 - 117		Recovery =	0.00%#			
50) TOLUENE-D8	0.00	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 89 - 115		Recovery =	0.00%#			
68) 4-BROMOFLUOROBENZENE	0.00	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 70 - 129		Recovery =	0.00%#			
Target Compounds							Qvalue
97) ETHANOL	2.88	45	109258	2892.6846795	ppb		95
98) BROMOETHANE	3.12	108	56720	19.1308586	ppb		100
99) 2-PROPANOL	3.23	45	30344	88.5457098	ppb		99
100) METHYL ACETATE	3.39	43	1136062	495.2606761	ppb	#	96
101) ACETONITRILE	3.62	41	538447	1296.9019935	ppb		99
102) ALLYL CHLORIDE	3.24	76	186914	87.6070845	ppb		90
103) TERT-BUTYL ALCOHOL	3.49	59	66882	218.4828827	ppb		100
104) CHLOROPRENE	3.76	53	629031	83.4091320	ppb		96
105) ETHYL TERT-BUTYL ETHER	3.87	59	210587	19.7158643	ppb		98
106) PROPIONITRILE	4.58	54	660471	1309.8319305	ppb		99
107) ETHYL ACETATE	4.26	43	778342	253.6046103	ppb		98
108) METHACRYLONITRILE	4.59	67	1712659	1155.6295901	ppb		97
109) CYCLOHEXANE	4.23	84	190029	16.6776503	ppb		98
110) TERT-BUTYL FORMATE	4.47	59	616354	180.2057460	ppb		98
111) ISOBUTANOL	4.62	43	595822	3290.6994036	ppb	#	97
112) T-AMYL ALCOHOL	4.69	59	44246	215.0882699	ppb		97
113) TERT-AMYL METHYL ETHER	4.61	73	248656	20.5064656	ppb	#	88
115) N-BUTANOL	5.02	56	651862	7892.3571697	ppb		98
116) METHYL CYCLOHEXANE	4.93	83	217399	18.2064142	ppb		96
117) 2-NITROPROPANE	5.93	43	117469	136.7096376	ppb		98
118) METHYL METHACRYLATE	5.30	41	348572	123.6024564	ppb		96
119) 1,4-DIOXANE	5.36	88	102337	2869.5973094	ppb		99
120) N-OCTANE	5.62	85	91515	18.8701872	ppb		99
121) 3,3-DIMETHYL-1-BUTANOL	6.49	57	104583	193.9356150	ppb		97
123) ETHYL METHACRYLATE	6.09	69	427899	123.7167272	ppb		94
124) CIS-1,4-DICHLORO-2-BUTENE	7.67	53	121758	175.5390631	ppb	#	1
125) CYCLOHEXANONE	7.94	55	160144	182.9873202	ppb		98
126) PENTACHLOROETHANE	8.14	117	177649	88.1494946	ppb		98
127) HEXACHLOROETHANE	8.83	117	50243	17.5713914	ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 26.D Vial: 26
Acq On : 12 Oct 2015 3:39 am Operator: 591
Sample : STD VMS 17.5 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:52 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:52:28 2015
Response via : Initial Calibration

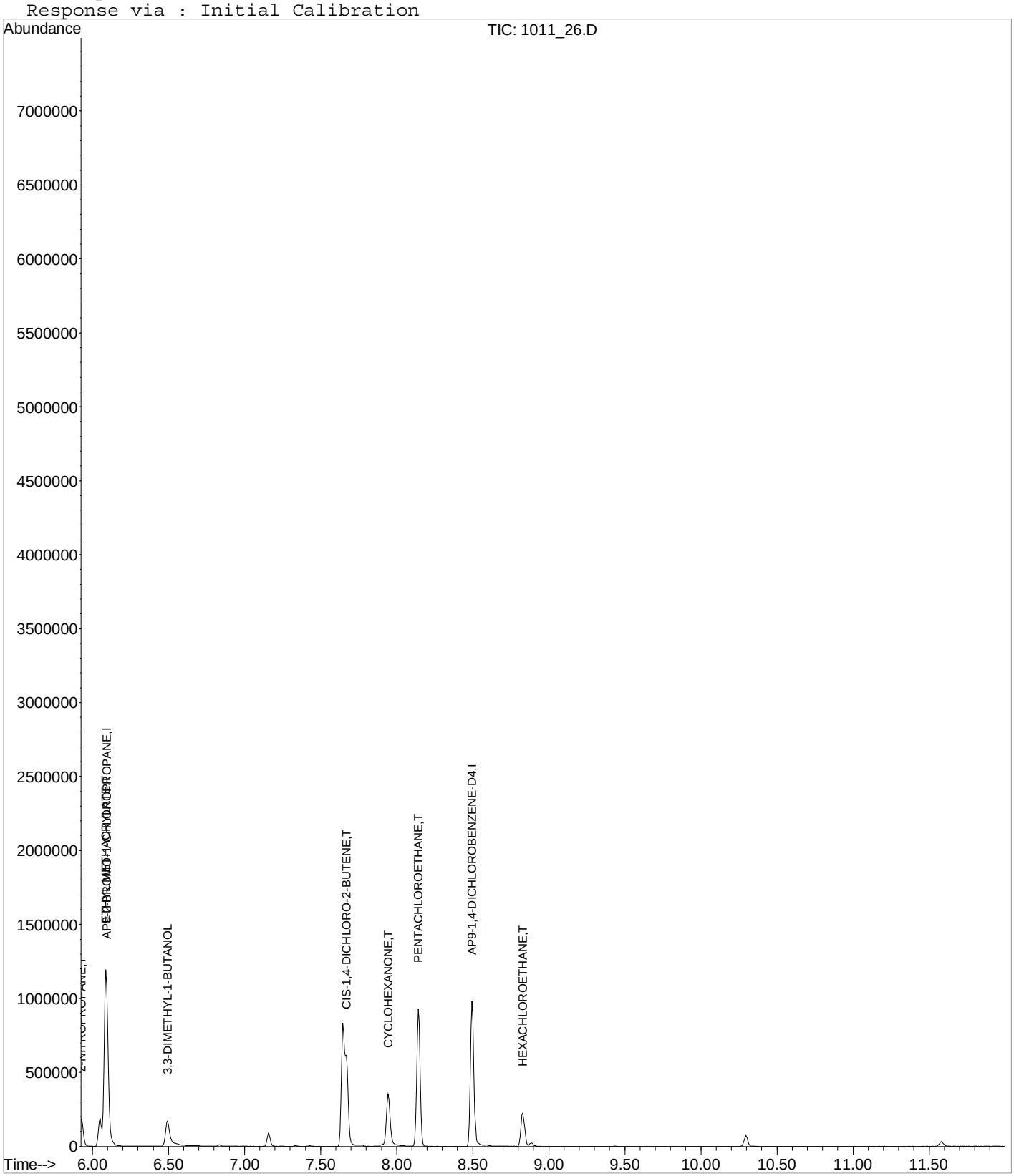


1011_26.D V808J11O.M Mon Oct 12 10:53:02 2015 1756 of 1797 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_26.D Vial: 26
Acq On : 12 Oct 2015 3:39 am Operator: 591
Sample : STD VMS 17.5 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:52 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:52:28 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 27.D Vial: 27
Acq On : 12 Oct 2015 4:03 am Operator: 591
Sample : STD VMS 20 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:47:59 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:47:17 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

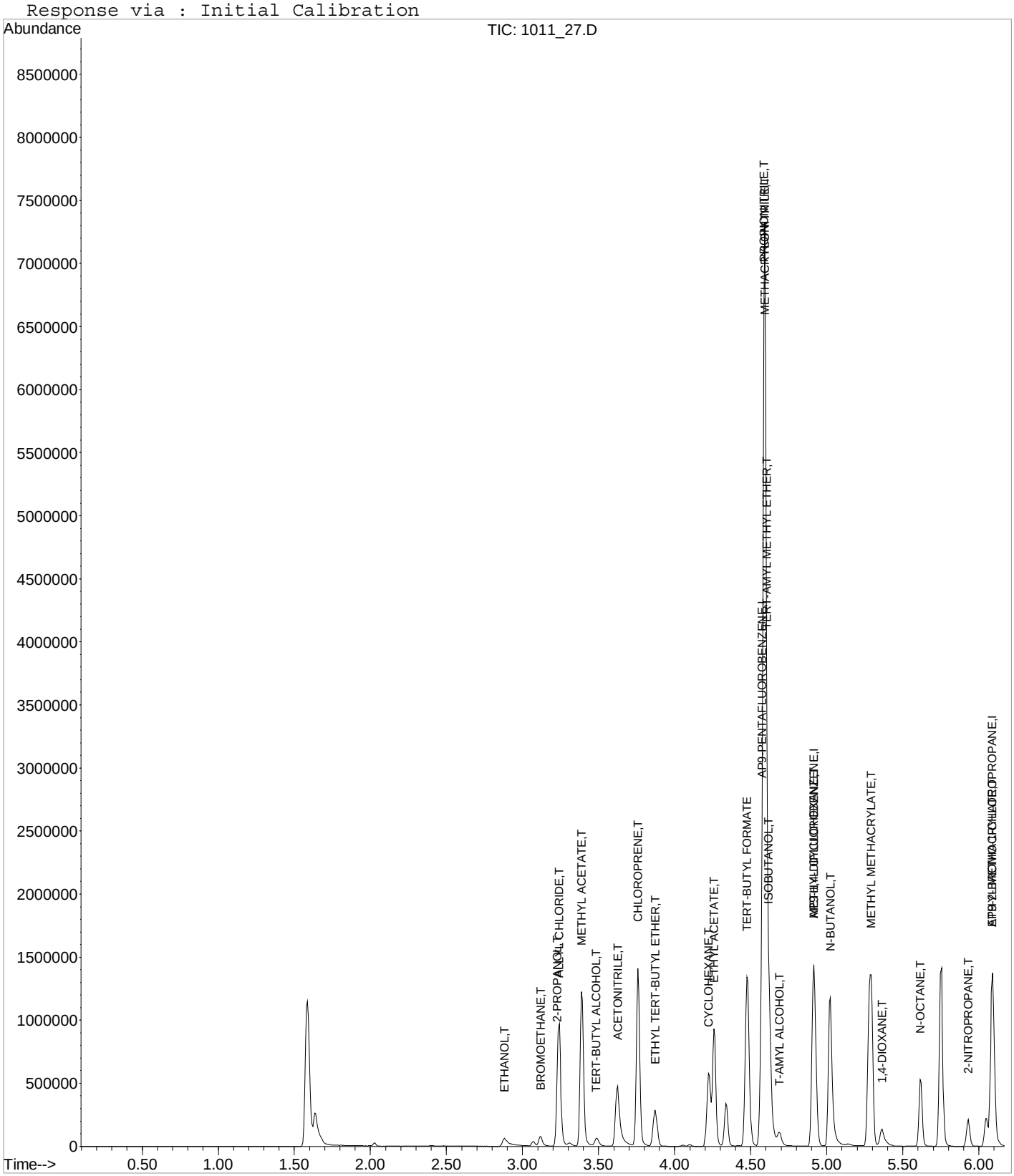
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) 8260-PENTAFLUOROBENZENE	0.00	168	0m	40.00	ppb		-4.57
41) 8260-1,4-DIFLUOROBENZENE	0.00	114	0m	40.00	ppb		-4.91
53) 8260-2-BROMO-1-CHLOROPROPA	0.00	79	0m	40.00	ppb		-6.10
84) 8260-1,4-DICHLOROBENZENE-D	0.00	152	0m	40.00	ppb		-8.50
96) AP9-PENTAFLUOROBENZENE	4.57	168	348917	40.00	ppb		0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	676097	40.00	ppb		0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.09	79	108429	40.00	ppb		0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	258439	40.00	ppb		0.00
System Monitoring Compounds							
33) DIBROMOFLUOROMETHANE	0.00	111	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 76 - 123		Recovery =	0.00%#			
46) A,A,A-TRIFLUOROTOLUENE	0.00	146	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 87 - 117		Recovery =	0.00%#			
50) TOLUENE-D8	0.00	98	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 89 - 115		Recovery =	0.00%#			
68) 4-BROMOFLUOROBENZENE	0.00	95	0d	0.0000000	ppb		
Spiked Amount 40.000	Range 70 - 129		Recovery =	0.00%#			
Target Compounds							Qvalue
97) ETHANOL	2.88	45	119318	3260.0891643	ppb		100
98) BROMOETHANE	3.12	108	66619	23.1884656	ppb		100
99) 2-PROPANOL	3.22	45	33875	102.0116241	ppb		99
100) METHYL ACETATE	3.39	43	1337107	601.5526430	ppb	#	100
101) ACETONITRILE	3.62	41	593072	1474.1690228	ppb		100
102) ALLYL CHLORIDE	3.24	76	220607	106.7068621	ppb		100
103) TERT-BUTYL ALCOHOL	3.49	59	73718	248.5177277	ppb		100
104) CHLOROPRENE	3.76	53	702206	96.0907876	ppb		100
105) ETHYL TERT-BUTYL ETHER	3.87	59	236478	22.8481305	ppb		100
106) PROPIONITRILE	4.58	54	754592	1544.3640397	ppb		100
107) ETHYL ACETATE	4.26	43	870856	292.8253634	ppb		100
108) METHACRYLONITRILE	4.59	67	2022114	1408.0855849	ppb		100
109) CYCLOHEXANE	4.23	84	217285	19.6797868	ppb		100
110) TERT-BUTYL FORMATE	4.48	59	663909	200.3192271	ppb		100
111) ISOBUTANOL	4.62	43	623362	3552.9383018	ppb	#	100
112) T-AMYL ALCOHOL	4.69	59	49014	245.8886722	ppb		99
113) TERT-AMYL METHYL ETHER	4.61	73	286116	24.3506008	ppb	#	100
115) N-BUTANOL	5.02	56	708987	8128.2175873	ppb		100
116) METHYL CYCLOHEXANE	4.92	83	252207	20.0000000	ppb		100
117) 2-NITROPROPANE	5.93	43	134826	148.5783370	ppb		100
118) METHYL METHACRYLATE	5.30	41	376751	126.5013032	ppb		100
119) 1,4-DIOXANE	5.36	88	113358	3009.8609500	ppb		100
120) N-OCTANE	5.61	85	105602	20.6187366	ppb		100
121) 3,3-DIMETHYL-1-BUTANOL	6.49	57	113901	200.0000000	ppb		100
123) ETHYL METHACRYLATE	6.09	69	496212	139.9402749	ppb		100
124) CIS-1,4-DICHLORO-2-BUTENE	7.67	53	130100	182.9539859	ppb		100
125) CYCLOHEXANONE	7.94	55	179445	200.0000000	ppb		100
126) PENTACHLOROETHANE	8.14	117	195590	94.6655614	ppb		100
127) HEXACHLOROETHANE	8.83	117	55996	19.1018708	ppb		100

(#) = qualifier out of range (m) = manual integration
1011_27.D V808J11O.M Mon Oct 12 10:53:36 2015 1758 of 1797 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 27.D Vial: 27
Acq On : 12 Oct 2015 4:03 am Operator: 591
Sample : STD VMS 20 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:53 2015 Quant Results File: V808J11O.RES

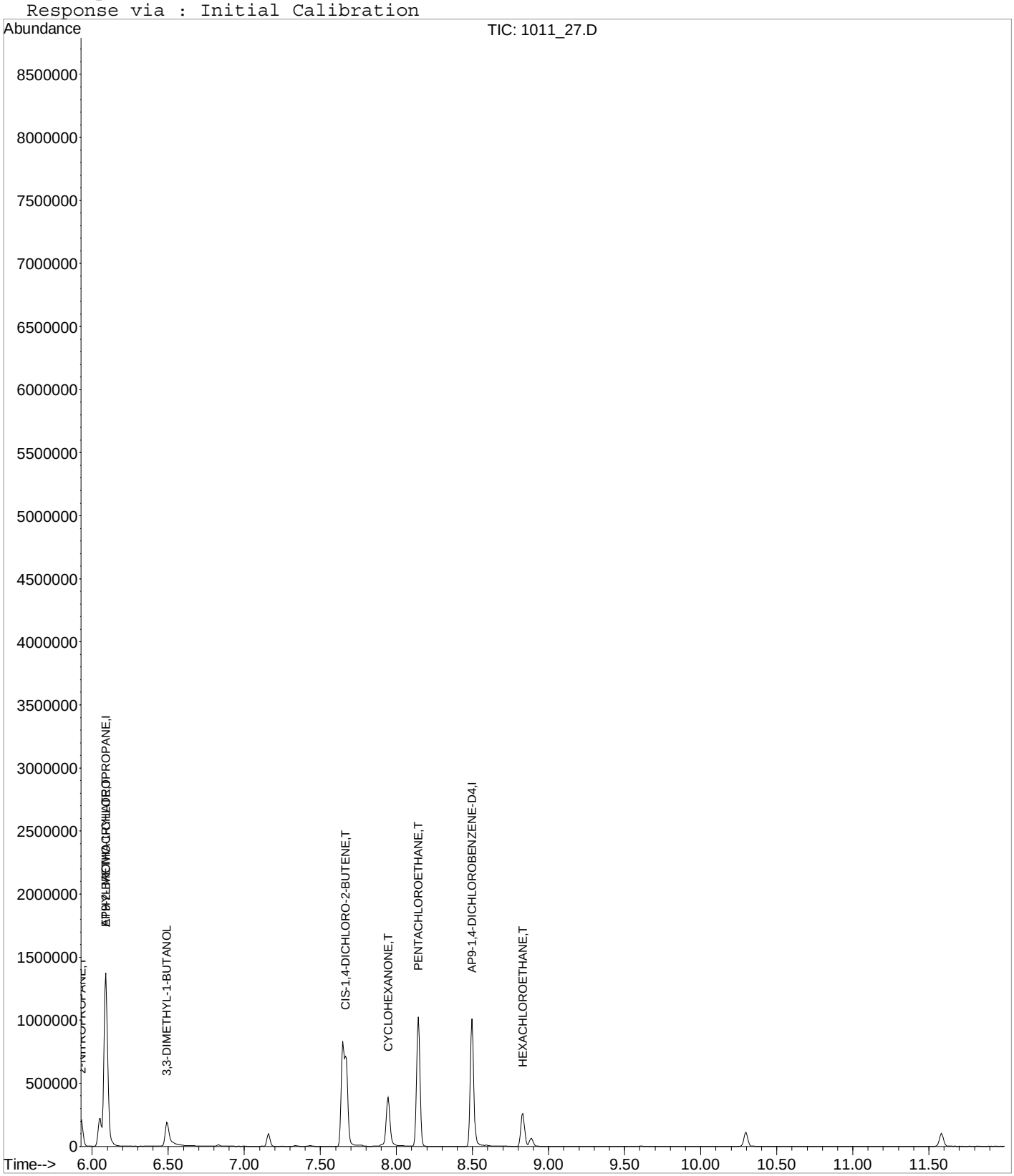
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:53:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_27.D Vial: 27
Acq On : 12 Oct 2015 4:03 am Operator: 591
Sample : STD VMS 20 ppb 15H20824 Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:53 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:53:06 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 01.D Vial: 1
Acq On : 11 Oct 2015 5:36 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57:04 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

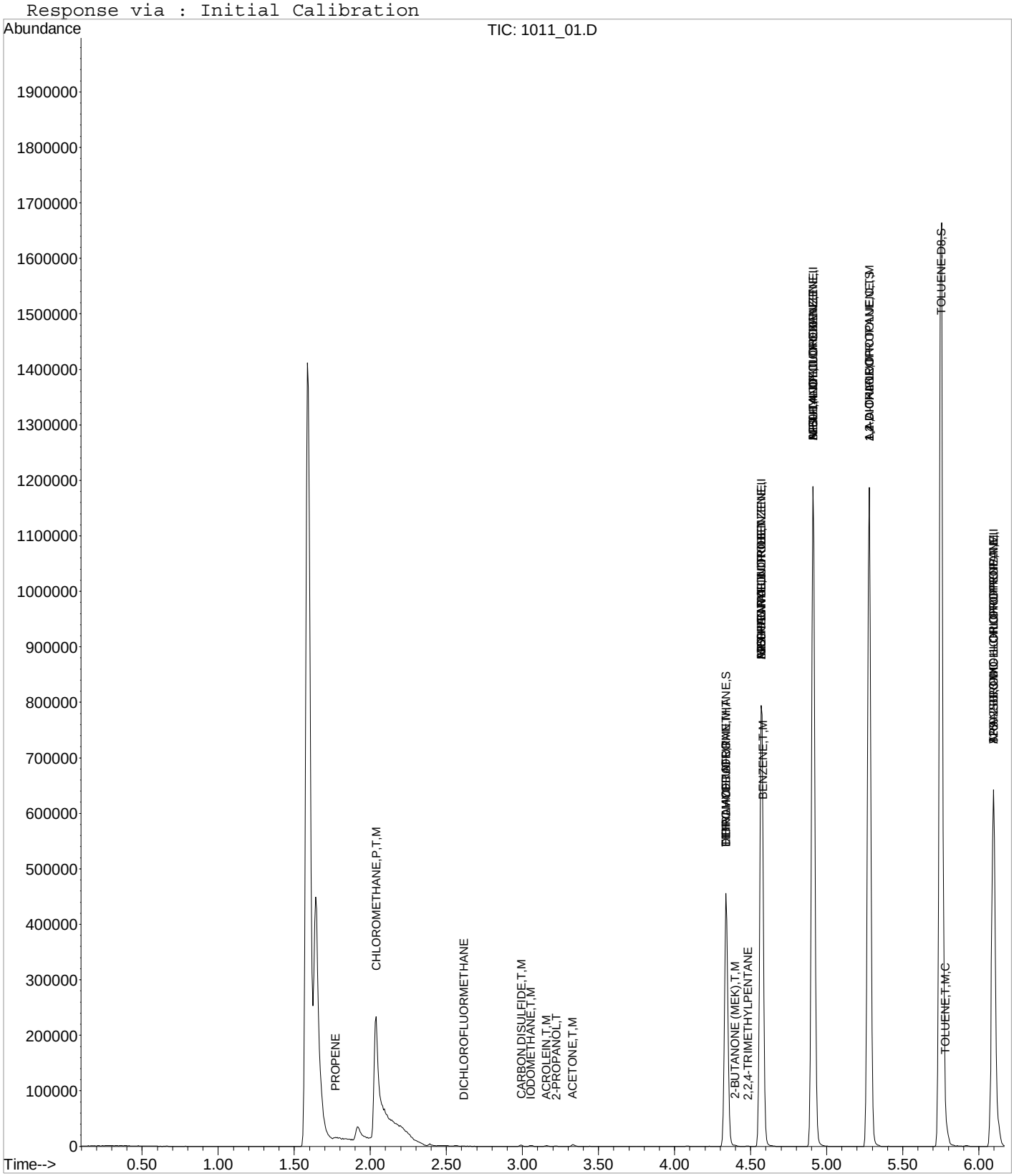
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	458265	40.00 ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	812835	40.00 ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.09	79	127811	40.00 ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	326234	40.00 ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.57	168	458644	40.00 ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	812835	40.00 ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.09	79	127811	40.00 ppb	0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	326234	40.00 ppb	0.00
System Monitoring Compounds					
33) DIBROMOFLUOROMETHANE	4.34	111	230846	40.3156132 ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 100.79%		
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	428909	41.2314315 ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 103.08%		
50) TOLUENE-D8	5.75	98	1013467	41.5046321 ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 103.76%		
68) 4-BROMOFLUOROBENZENE	7.65	95	350642	41.3546915 ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 103.39%		
Target Compounds					Qvalue
3) PROPENE	1.77	41	3092	2.1045146 ppb #	86
5) CHLOROMETHANE	2.04	50	21240	1.8328841 ppb #	68
11) DICHLOROFLUORMETHANE	2.62	67	168	0.0197099 ug/l #	42
13) ACROLEIN	3.16	56	807	0.8137536 ppb #	15
16) ACETONE	3.33	43	3618	1.2003488 ppb #	79
17) IODOMETHANE	3.05	142	1966	1.9680720 ppb #	57
18) CARBON DISULFIDE	2.99	76	2300	0.1433888 ppb #	86
29) 2-BUTANONE (MEK)	4.40	43	520	0.1508870 ppb #	44
31) TETRAHYDROFURAN	4.34	42	4464	2.3650079 ppb #	93
37) 2,2,4-TRIMETHYLPENTANE	4.48	57	851	0.0309984 ppb #	59
39) BENZENE	4.59	78	1225	0.0587727 ppb #	1
43) 1,2-DICHLOROPROPANE	5.27	62	8145	2.2460661 ppb #	52
51) TOLUENE	5.78	91	5134	0.2345656 ppb	96
52) TRANS-1,3-DICHLOROPROPENE	6.09	75	5741	0.8508983 ppb #	1
63) M&P-XYLENE	6.90	106	809	0.0942565 ppb	92
67) ISOPROPYLBENZENE	7.42	105	446	0.0208713 ppb #	54
69) BROMOBENZENE	7.65	77	1646	0.1784392 ppb #	29
73) N-PROPYLBENZENE	7.73	91	168	0.0066952 ppb #	60
74) 4-ETHYLTOLUENE	7.79	105	745	0.0362886 ppb #	45
79) 1,2,4-TRIMETHYLBENZENE	8.16	105	931	0.0569050 ppb #	56
80) SEC-BUTYLBENZENE	8.16	105	700	0.0308503 ppb #	58
83) DICYCLOPENTADIENE	8.50	66	5373	0.2505694 ppb #	70
88) N-BUTYLBENZENE	8.50	91	604	0.0347363 ppb #	32
92) NAPHTHALENE	10.32	128	1030	0.0711411 ppb #	72
94) 1-METHYLNAPHTHALENE	11.20	142	753	0.1046926 ppb #	49
95) 2-METHYLNAPHTHALENE	11.34	142	371	0.0526760 ppb #	56
99) 2-PROPANOL	3.22	45	845	1.8613147 ppb #	58
107) ETHYL ACETATE	4.34	43	814	0.1418326 ppb #	66
108) METHACRYLONITRILE	4.57	67	1150	0.4409639 ppb #	1
111) ISOBUTANOL	4.56	43	331	0.7738120 ppb #	1
115) N-BUTANOL	4.91	56	15050	66.8721705 ppb #	23
116) METHYL CYCLOHEXANE	4.91	83	9330	0.5602043 ppb #	42
119) 1,4-DIOXANE	5.28	88	4446	60.6995511 ppb #	25
127) HEXACHLOROETHANE	8.87	117	550	0.1666544 ppb #	1

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 01.D Vial: 1
Acq On : 11 Oct 2015 5:36 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57 2015 Quant Results File: V808J11O.RES

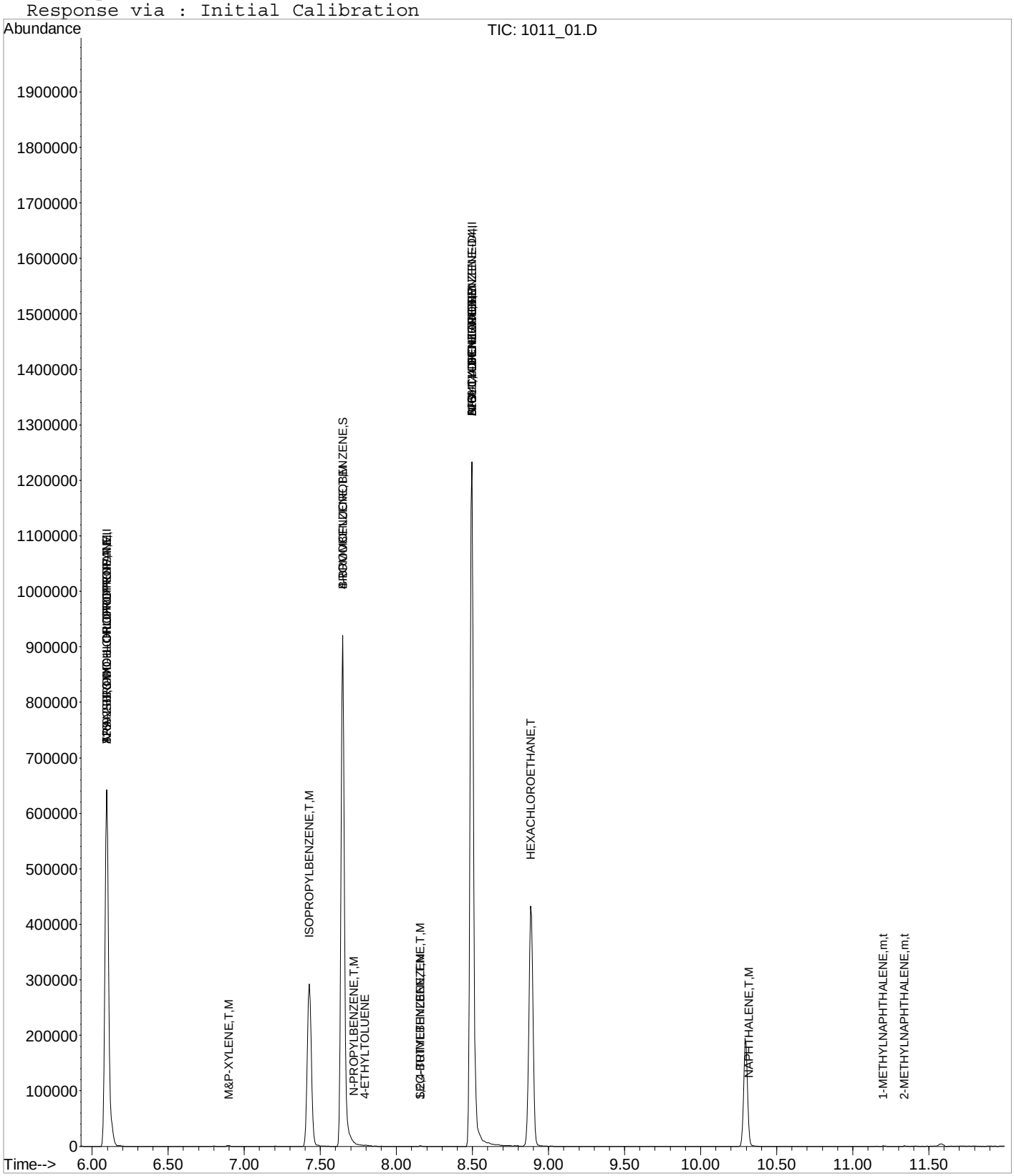
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_01.D Vial: 1
Acq On : 11 Oct 2015 5:36 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 01.D Vial: 1
Acq On : 11 Oct 2015 5:36 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57:04 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

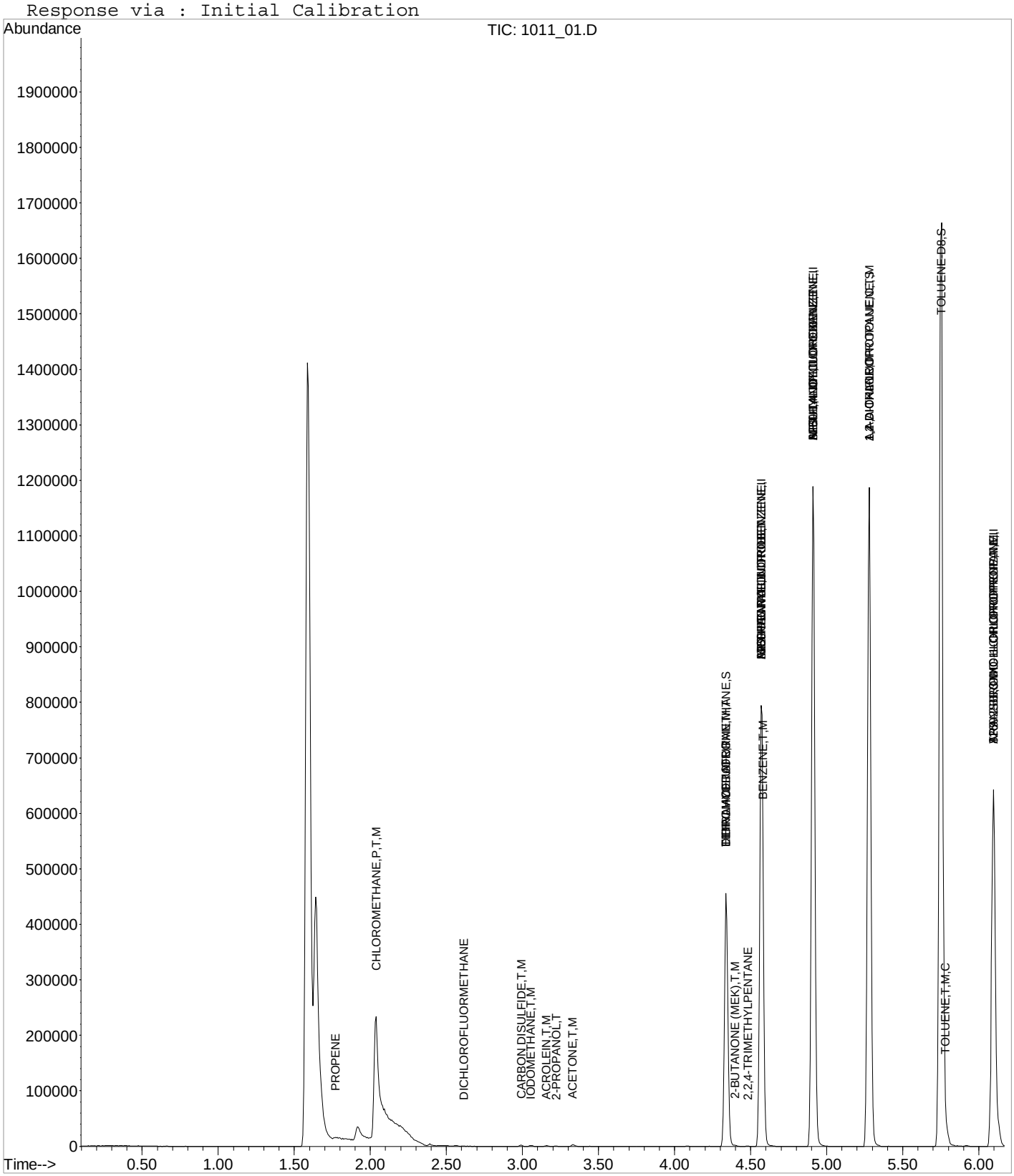
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	458265	40.00	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	812835	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.09	79	127811	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	326234	40.00	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.57	168	458644	40.00	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	812835	40.00	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.09	79	127811	40.00	ppb	0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	326234	40.00	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.34	111	230846	40.3156132	ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 100.79%			
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	428909	41.2314315	ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 103.08%			
50) TOLUENE-D8	5.75	98	1013467	41.5046321	ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 103.76%			
68) 4-BROMOFLUOROBENZENE	7.65	95	350642	41.3546915	ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 103.39%			
Target Compounds						Qvalue
3) PROPENE	1.77	41	3092	2.1045146	ppb	# 86
5) CHLOROMETHANE	2.04	50	21240	1.8328841	ppb	# 68
11) DICHLOROFLUORMETHANE	2.62	67	168	0.0197099	ug/l	# 42
13) ACROLEIN	3.16	56	807	0.8137536	ppb	# 15
16) ACETONE	3.33	43	3618	1.2003488	ppb	# 79
17) IODOMETHANE	3.05	142	1966	1.9680720	ppb	# 57
18) CARBON DISULFIDE	2.99	76	2300	0.1433888	ppb	# 86
29) 2-BUTANONE (MEK)	4.40	43	520	0.1508870	ppb	# 44
31) TETRAHYDROFURAN	4.34	42	4464	2.3650079	ppb	# 93
37) 2,2,4-TRIMETHYLPENTANE	4.48	57	851	0.0309984	ppb	# 59
39) BENZENE	4.59	78	1225	0.0587727	ppb	# 1
43) 1,2-DICHLOROPROPANE	5.27	62	8145	2.2460661	ppb	# 52
51) TOLUENE	5.78	91	5134	0.2345656	ppb	96
52) TRANS-1,3-DICHLOROPROPENE	6.09	75	5741	0.8508983	ppb	# 1
63) M&P-XYLENE	6.90	106	809	0.0942565	ppb	92
67) ISOPROPYLBENZENE	7.42	105	446	0.0208713	ppb	# 54
69) BROMOBENZENE	7.65	77	1646	0.1784392	ppb	# 29
73) N-PROPYLBENZENE	7.73	91	168	0.0066952	ppb	# 60
74) 4-ETHYLTOLUENE	7.79	105	745	0.0362886	ppb	# 45
79) 1,2,4-TRIMETHYLBENZENE	8.16	105	931	0.0569050	ppb	# 56
80) SEC-BUTYLBENZENE	8.16	105	700	0.0308503	ppb	# 58
83) DICYCLOPENTADIENE	8.50	66	5373	0.2505694	ppb	# 70
88) N-BUTYLBENZENE	8.50	91	604	0.0347363	ppb	# 32
92) NAPHTHALENE	10.32	128	1030	0.0711411	ppb	# 72
94) 1-METHYLNAPHTHALENE	11.20	142	753	0.1046926	ppb	# 49
95) 2-METHYLNAPHTHALENE	11.34	142	371	0.0526760	ppb	# 56
99) 2-PROPANOL	3.22	45	845	1.8613147	ppb	# 58
107) ETHYL ACETATE	4.34	43	814	0.1418326	ppb	# 66
108) METHACRYLONITRILE	4.57	67	1150	0.4409639	ppb	# 1
111) ISOBUTANOL	4.56	43	331	0.7738120	ppb	# 1
115) N-BUTANOL	4.91	56	15050	66.8721705	ppb	# 23
116) METHYL CYCLOHEXANE	4.91	83	9330	0.5602043	ppb	# 42
119) 1,4-DIOXANE	5.28	88	4446	60.6995511	ppb	# 25
127) HEXACHLOROETHANE	8.87	117	550	0.1666544	ppb	# 1

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 01.D Vial: 1
Acq On : 11 Oct 2015 5:36 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57 2015 Quant Results File: V808J11O.RES

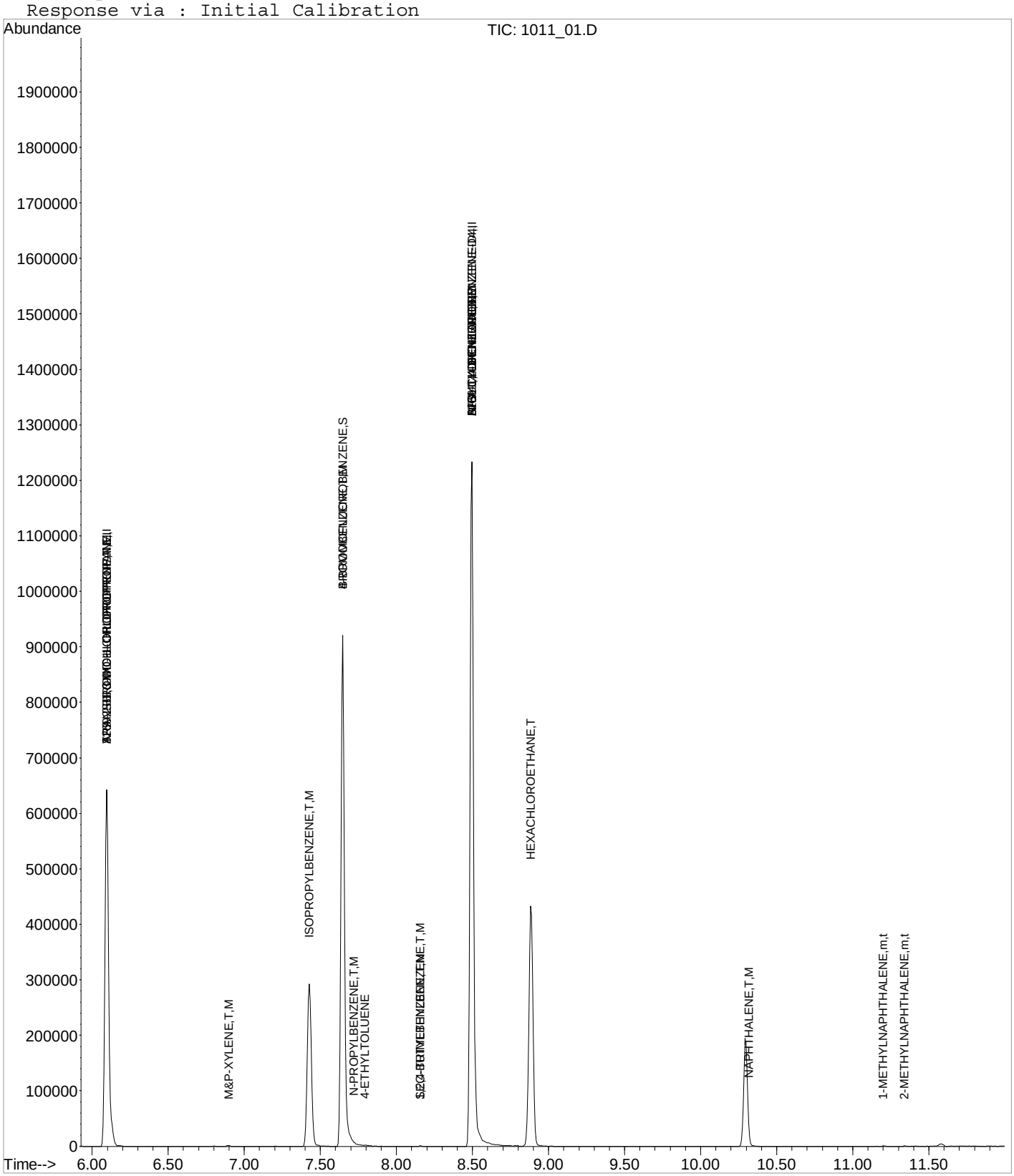
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_01.D Vial: 1
Acq On : 11 Oct 2015 5:36 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 02.D Vial: 2
Acq On : 11 Oct 2015 6:00 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57:27 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

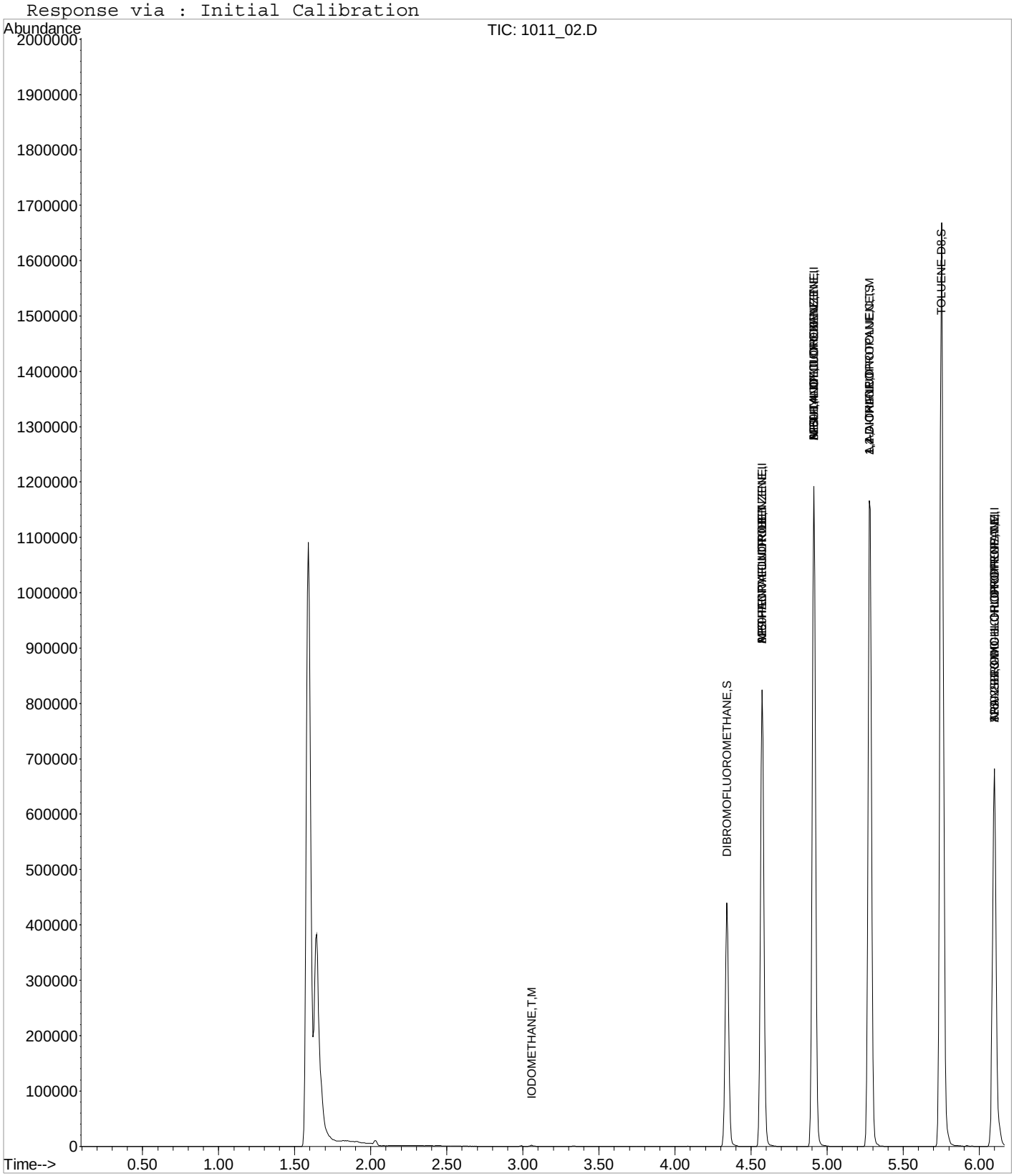
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	455225	40.00	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	809024	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	130679	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	309028	40.00	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.57	168	455611	40.00	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	809024	40.00	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.10	79	130679	40.00	ppb	0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	309028	40.00	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.34	111	226612	39.8404655	ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 99.60%			
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	433465	41.8656926	ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 104.66%			
50) TOLUENE-D8	5.75	98	988729	40.6822739	ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 101.71%			
68) 4-BROMOFLUOROBENZENE	7.65	95	345122	39.8103436	ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 99.53%			
Target Compounds						Qvalue
5) CHLOROMETHANE	2.00	50	2113	Below Cal	#	49
17) IODOMETHANE	3.06	142	2509	2.0724327	ppb	# 65
43) 1,2-DICHLOROPROPANE	5.28	62	7728	2.1411128	ppb	# 46
52) TRANS-1,3-DICHLOROPROPENE	6.10	75	5394	0.8032339	ppb	# 1
108) METHACRYLONITRILE	4.57	67	1177	0.4543213	ppb	# 1
115) N-BUTANOL	4.91	56	15109	67.4505711	ppb	# 23
116) METHYL CYCLOHEXANE	4.91	83	8572	0.5171159	ppb	# 43
119) 1,4-DIOXANE	5.28	88	4823	66.1567669	ppb	# 23

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 02.D Vial: 2
Acq On : 11 Oct 2015 6:00 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57 2015 Quant Results File: V808J11O.RES

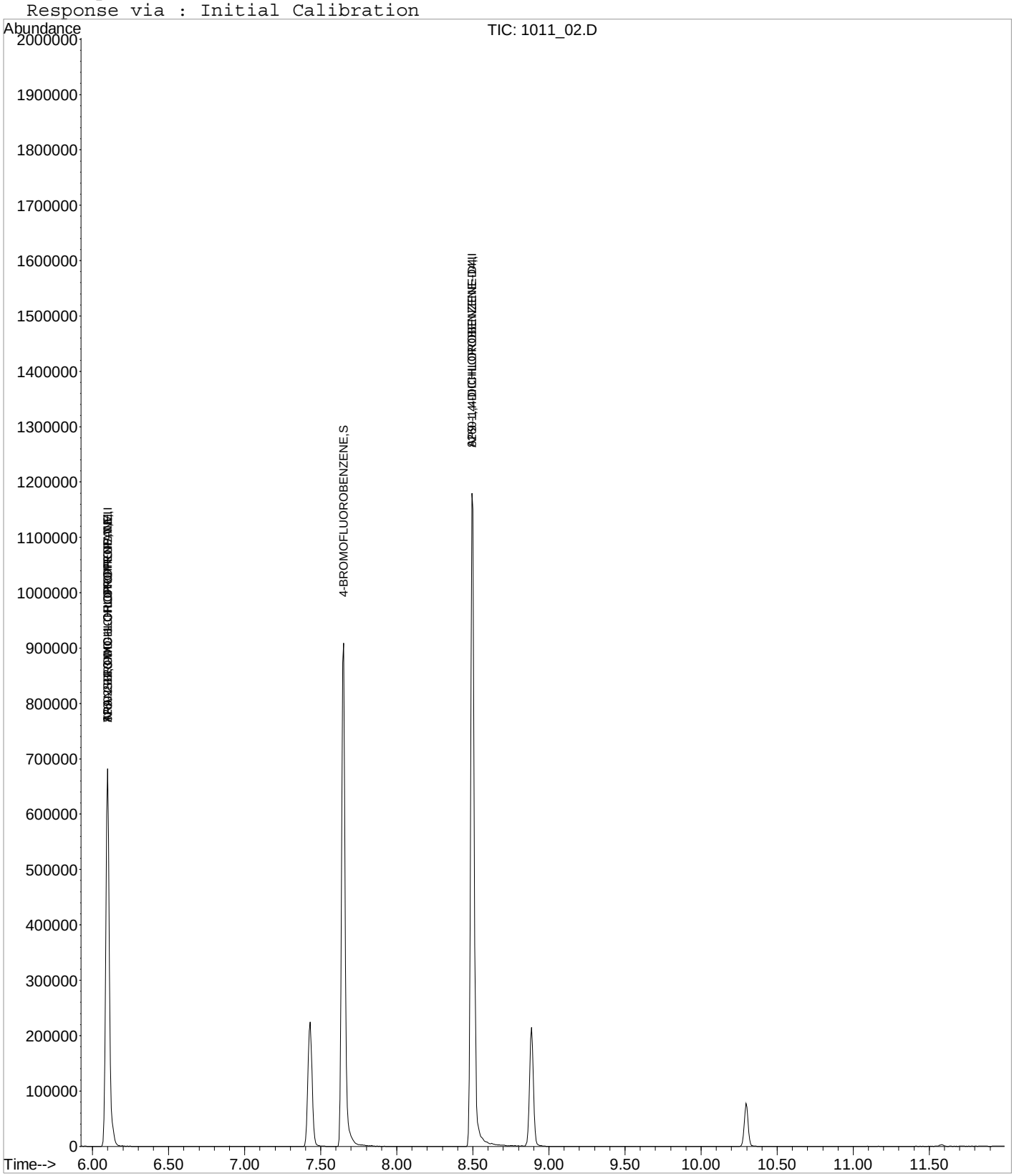
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_02.D Vial: 2
Acq On : 11 Oct 2015 6:00 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 02.D Vial: 2
Acq On : 11 Oct 2015 6:00 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57:27 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

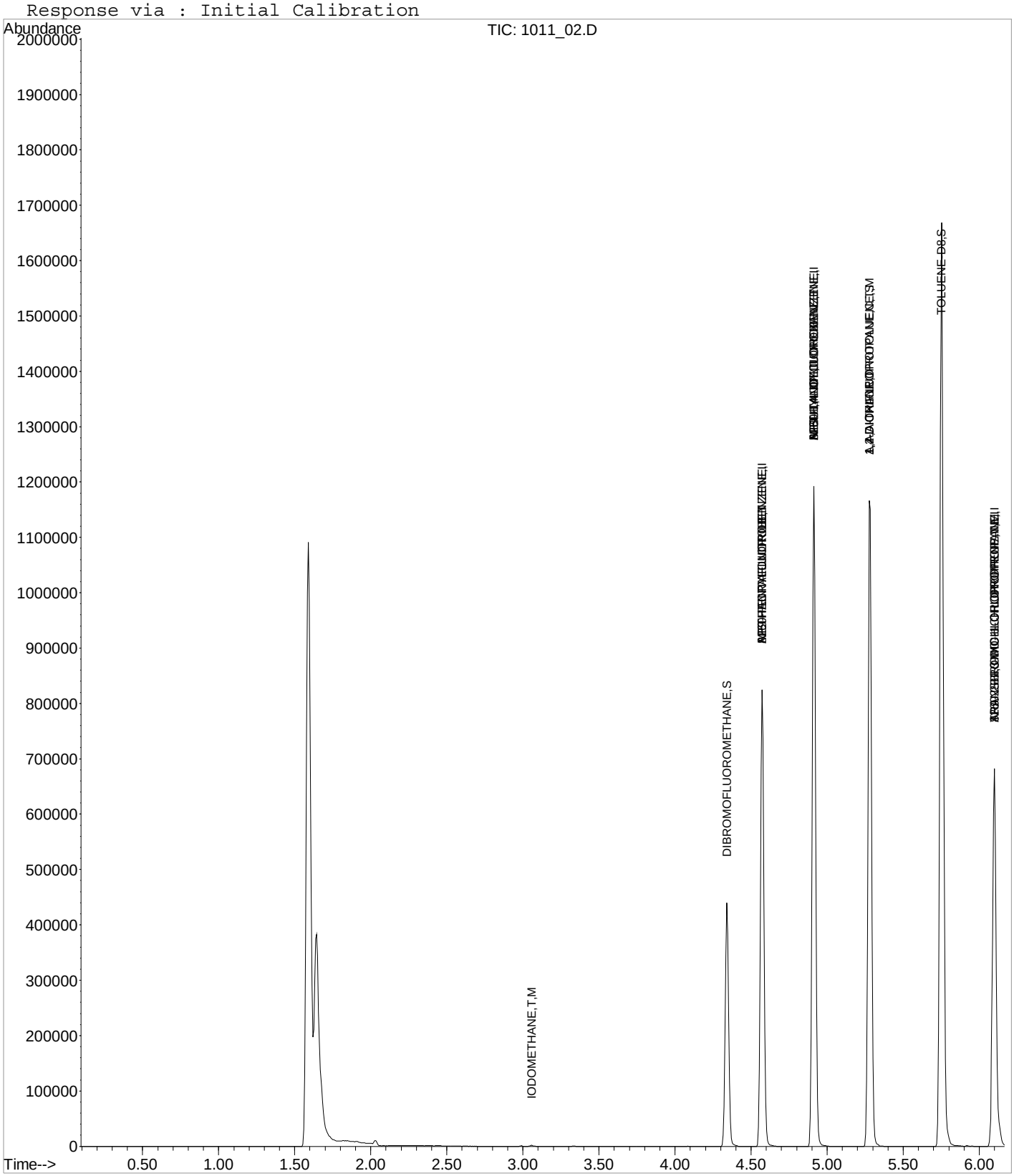
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	455225	40.00	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	809024	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	130679	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	309028	40.00	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.57	168	455611	40.00	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	809024	40.00	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.10	79	130679	40.00	ppb	0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	309028	40.00	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.34	111	226612	39.8404655	ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 99.60%			
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	433465	41.8656926	ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 104.66%			
50) TOLUENE-D8	5.75	98	988729	40.6822739	ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 101.71%			
68) 4-BROMOFLUOROBENZENE	7.65	95	345122	39.8103436	ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 99.53%			
Target Compounds						Qvalue
5) CHLOROMETHANE	2.00	50	2113	Below Cal	#	49
17) IODOMETHANE	3.06	142	2509	2.0724327	ppb	# 65
43) 1,2-DICHLOROPROPANE	5.28	62	7728	2.1411128	ppb	# 46
52) TRANS-1,3-DICHLOROPROPENE	6.10	75	5394	0.8032339	ppb	# 1
108) METHACRYLONITRILE	4.57	67	1177	0.4543213	ppb	# 1
115) N-BUTANOL	4.91	56	15109	67.4505711	ppb	# 23
116) METHYL CYCLOHEXANE	4.91	83	8572	0.5171159	ppb	# 43
119) 1,4-DIOXANE	5.28	88	4823	66.1567669	ppb	# 23

(#) = qualifier out of range (m) = manual integration
1011_02.D V808J11O.M Mon Oct 12 10:57:30 2015 1770 of 1797 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 02.D Vial: 2
Acq On : 11 Oct 2015 6:00 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57 2015 Quant Results File: V808J11O.RES

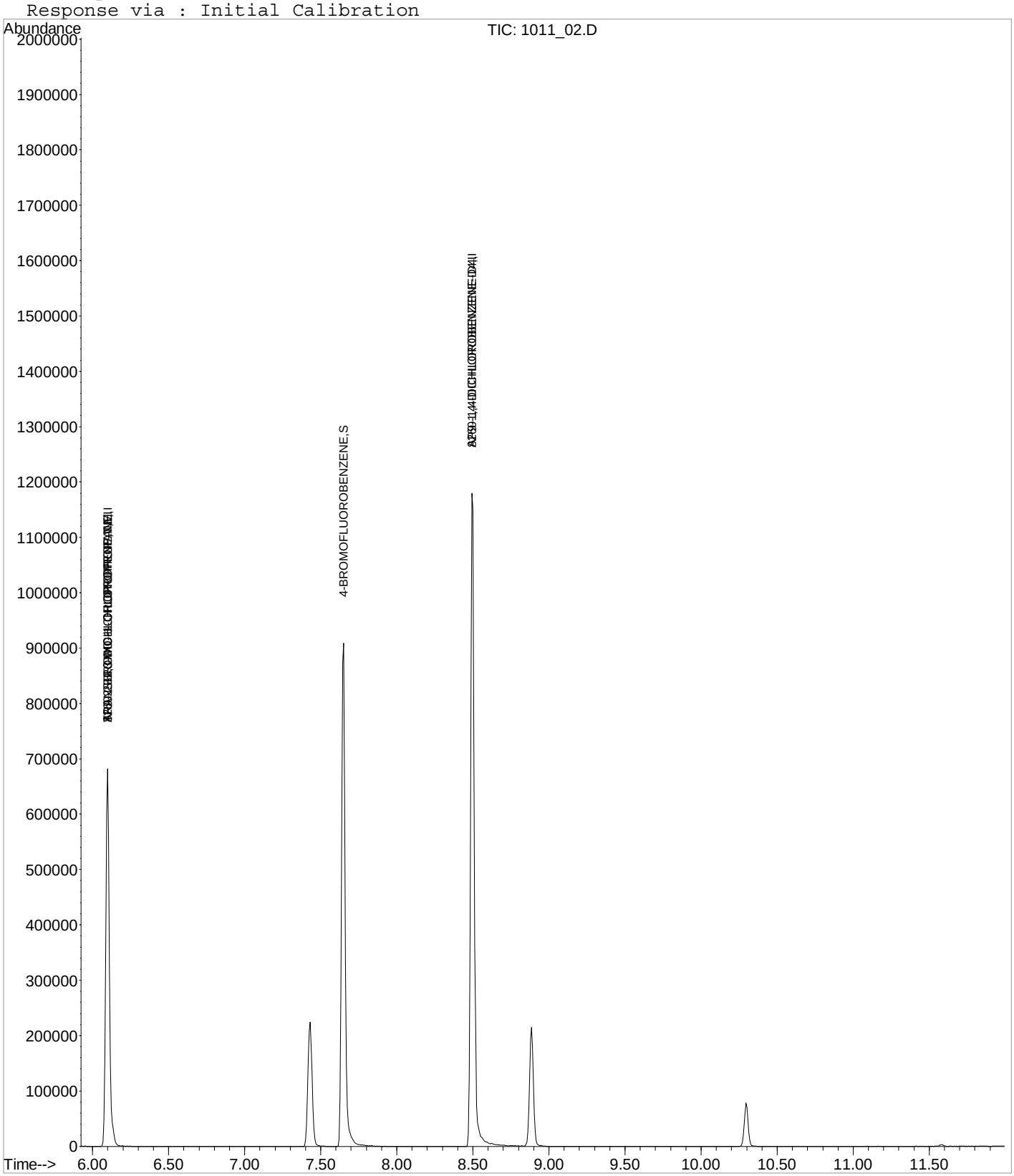
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_02.D Vial: 2
Acq On : 11 Oct 2015 6:00 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 15.D Vial: 15
Acq On : 11 Oct 2015 11:13 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57:41 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

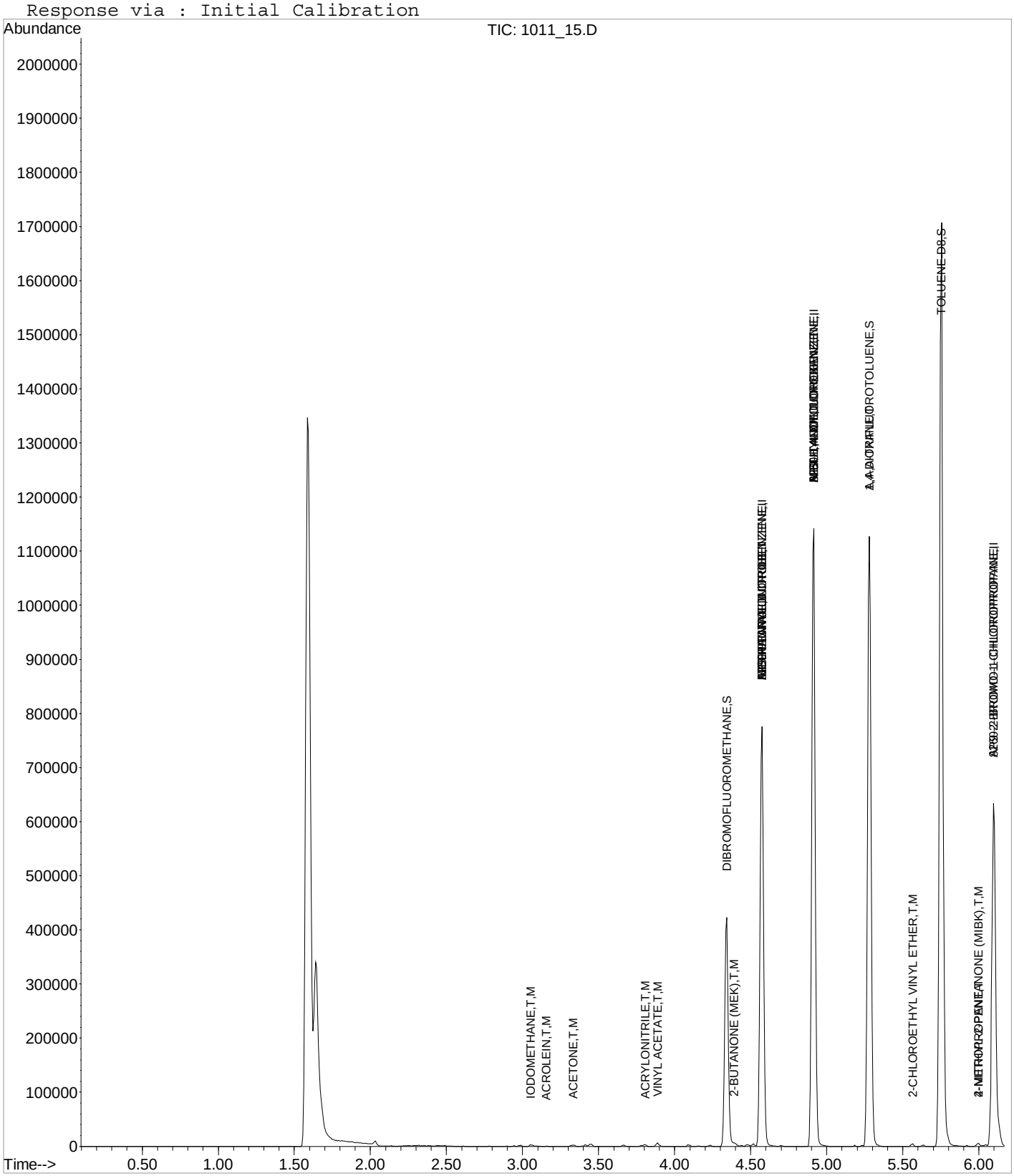
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	430575	40.00	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	779790	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	127688	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	322836	40.00	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.57	168	431131	40.00	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	779790	40.00	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.10	79	127688	40.00	ppb	0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	322836	40.00	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.34	111	221125	41.1014024	ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 102.75%			
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	414955	41.5804313	ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 103.95%			
50) TOLUENE-D8	5.75	98	972160	41.5001282	ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 103.75%			
68) 4-BROMOFLUOROBENZENE	7.65	95	349376	41.2450721	ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 103.11%			
Target Compounds						Qvalue
5) CHLOROMETHANE	2.01	50	520	Below Cal	#	49
13) ACROLEIN	3.16	56	370	0.3970900	ppb	# 15
16) ACETONE	3.33	43	2786	0.9837571	ppb	# 76
17) IODOMETHANE	3.05	142	4302	2.4551758	ppb	# 73
20) ACRYLONITRILE	3.81	53	2403	1.3622301	ppb	# 90
25) VINYL ACETATE	3.89	43	6989	0.9955800	ppb	# 86
29) 2-BUTANONE (MEK)	4.40	43	3928	1.2130755	ppb	89
47) 2-CHLOROETHYL VINYL ETHER	5.57	63	2132	0.8893520	ppb	# 62
49) 4-METHYL-2-PENTANONE (MIBK	6.00	43	4167	0.9180766	ppb	93
57) 2-HEXANONE	6.50	58	835	0.3439960	ppb	# 31
63) M&P-XYLENE	6.89	106	2661	0.3103313	ppb	# 65
90) 1,2,4-TRICHLOROBENZENE	10.05	180	1568	0.3121509	ppb	# 84
92) NAPHTHALENE	10.33	128	11663	0.8140314	ppb	# 85
93) 1,2,3-TRICHLOROBENZENE	10.47	180	2473	0.5096980	ppb	# 93
94) 1-METHYLNAPHTHALENE	11.20	142	14912	2.0950977	ppb	97
95) 2-METHYLNAPHTHALENE	11.34	142	16997	2.4387019	ppb	# 95
108) METHACRYLONITRILE	4.57	67	1026	0.4185227	ppb	# 8
111) ISOBUTANOL	4.57	43	343	0.8530374	ppb	# 1
115) N-BUTANOL	4.91	56	14851	68.7843048	ppb	# 23
116) METHYL CYCLOHEXANE	4.91	83	8595	0.5379419	ppb	# 43
117) 2-NITROPROPANE	6.00	43	4167	2.7485398	ppb	# 28
119) 1,4-DIOXANE	5.28	88	5082	72.3228306	ppb	# 23

(#) = qualifier out of range (m) = manual integration
1011_15.D V808J11O.M Mon Oct 12 10:57:47 2015 1773 of 1797 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 15.D Vial: 15
Acq On : 11 Oct 2015 11:13 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57 2015 Quant Results File: V808J11O.RES

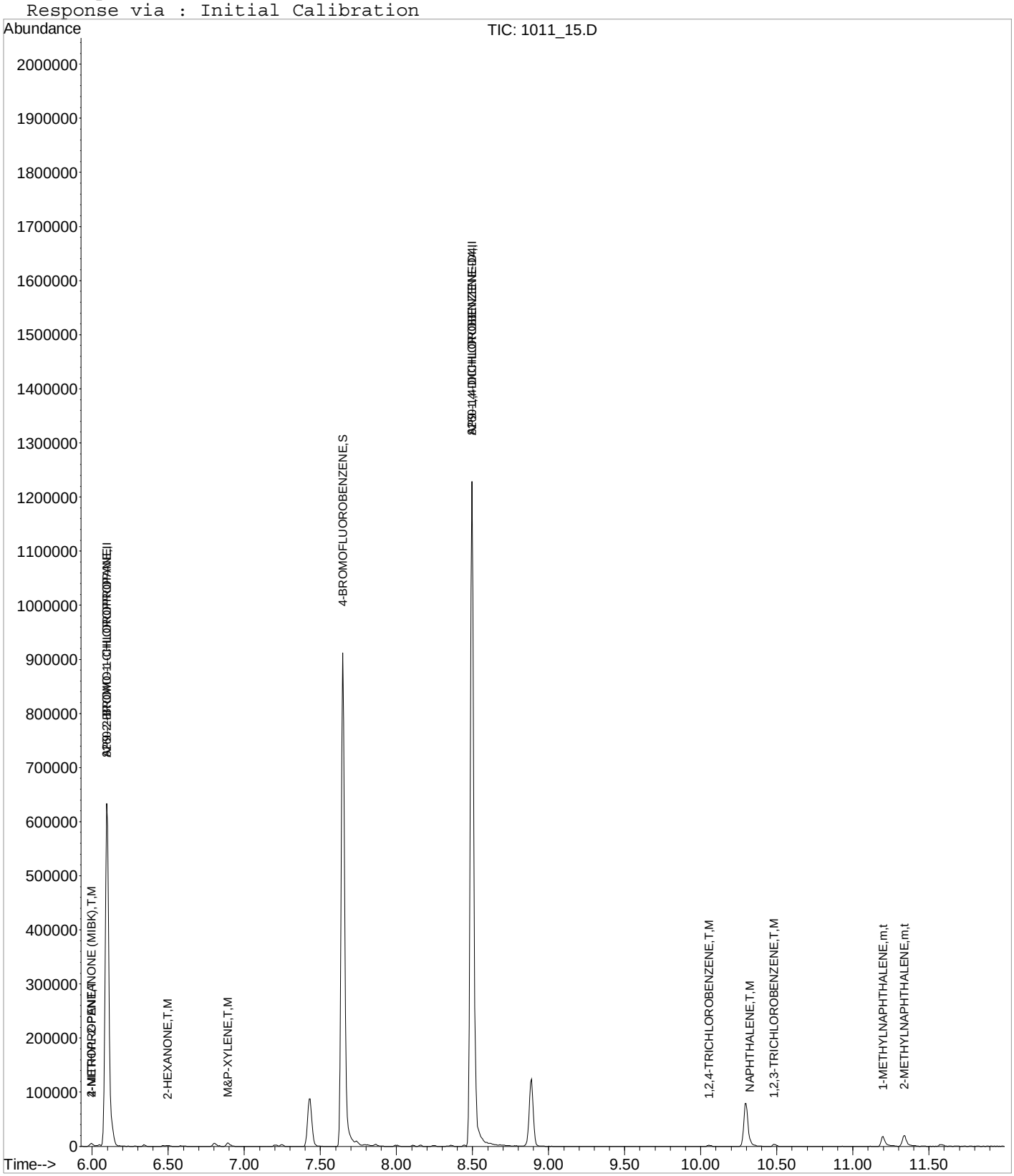
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_15.D Vial: 15
Acq On : 11 Oct 2015 11:13 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 15.D Vial: 15
Acq On : 11 Oct 2015 11:13 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57:41 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

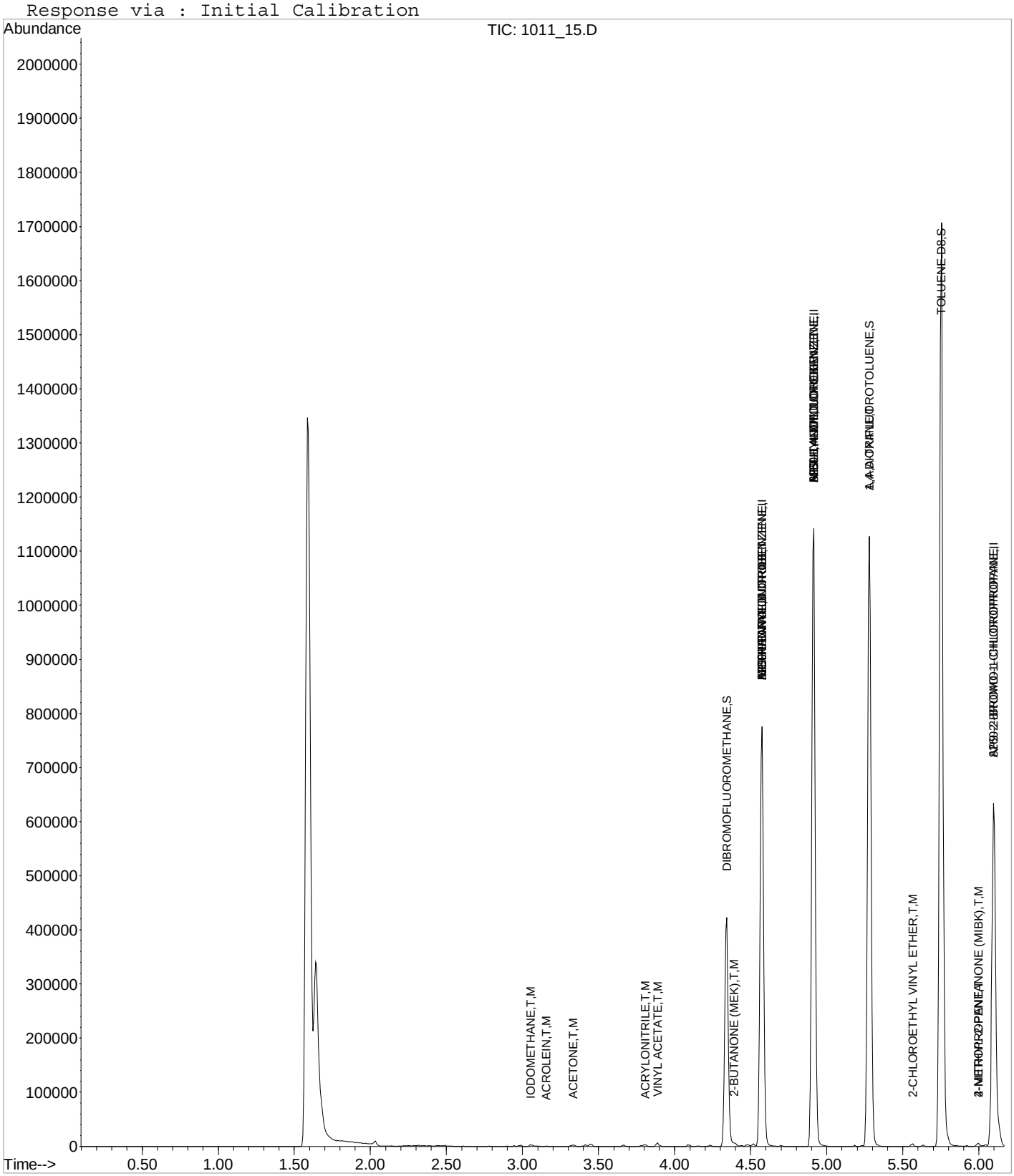
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	430575	40.00	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	779790	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	127688	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	322836	40.00	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.57	168	431131	40.00	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	779790	40.00	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.10	79	127688	40.00	ppb	0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	322836	40.00	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.34	111	221125	41.1014024	ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 102.75%			
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	414955	41.5804313	ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 103.95%			
50) TOLUENE-D8	5.75	98	972160	41.5001282	ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 103.75%			
68) 4-BROMOFLUOROBENZENE	7.65	95	349376	41.2450721	ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 103.11%			
Target Compounds						Qvalue
5) CHLOROMETHANE	2.01	50	520	Below Cal	#	49
13) ACROLEIN	3.16	56	370	0.3970900	ppb #	15
16) ACETONE	3.33	43	2786	0.9837571	ppb #	76
17) IODOMETHANE	3.05	142	4302	2.4551758	ppb #	73
20) ACRYLONITRILE	3.81	53	2403	1.3622301	ppb #	90
25) VINYL ACETATE	3.89	43	6989	0.9955800	ppb #	86
29) 2-BUTANONE (MEK)	4.40	43	3928	1.2130755	ppb	89
47) 2-CHLOROETHYL VINYL ETHER	5.57	63	2132	0.8893520	ppb #	62
49) 4-METHYL-2-PENTANONE (MIBK	6.00	43	4167	0.9180766	ppb	93
57) 2-HEXANONE	6.50	58	835	0.3439960	ppb #	31
63) M&P-XYLENE	6.89	106	2661	0.3103313	ppb #	65
90) 1,2,4-TRICHLOROBENZENE	10.05	180	1568	0.3121509	ppb #	84
92) NAPHTHALENE	10.33	128	11663	0.8140314	ppb #	85
93) 1,2,3-TRICHLOROBENZENE	10.47	180	2473	0.5096980	ppb #	93
94) 1-METHYLNAPHTHALENE	11.20	142	14912	2.0950977	ppb	97
95) 2-METHYLNAPHTHALENE	11.34	142	16997	2.4387019	ppb #	95
108) METHACRYLONITRILE	4.57	67	1026	0.4185227	ppb #	8
111) ISOBUTANOL	4.57	43	343	0.8530374	ppb #	1
115) N-BUTANOL	4.91	56	14851	68.7843048	ppb #	23
116) METHYL CYCLOHEXANE	4.91	83	8595	0.5379419	ppb #	43
117) 2-NITROPROPANE	6.00	43	4167	2.7485398	ppb #	28
119) 1,4-DIOXANE	5.28	88	5082	72.3228306	ppb #	23

(#) = qualifier out of range (m) = manual integration
1011_15.D V808J11O.M Mon Oct 12 10:57:47 2015 1776 of 1797 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 15.D Vial: 15
Acq On : 11 Oct 2015 11:13 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration


Abundance
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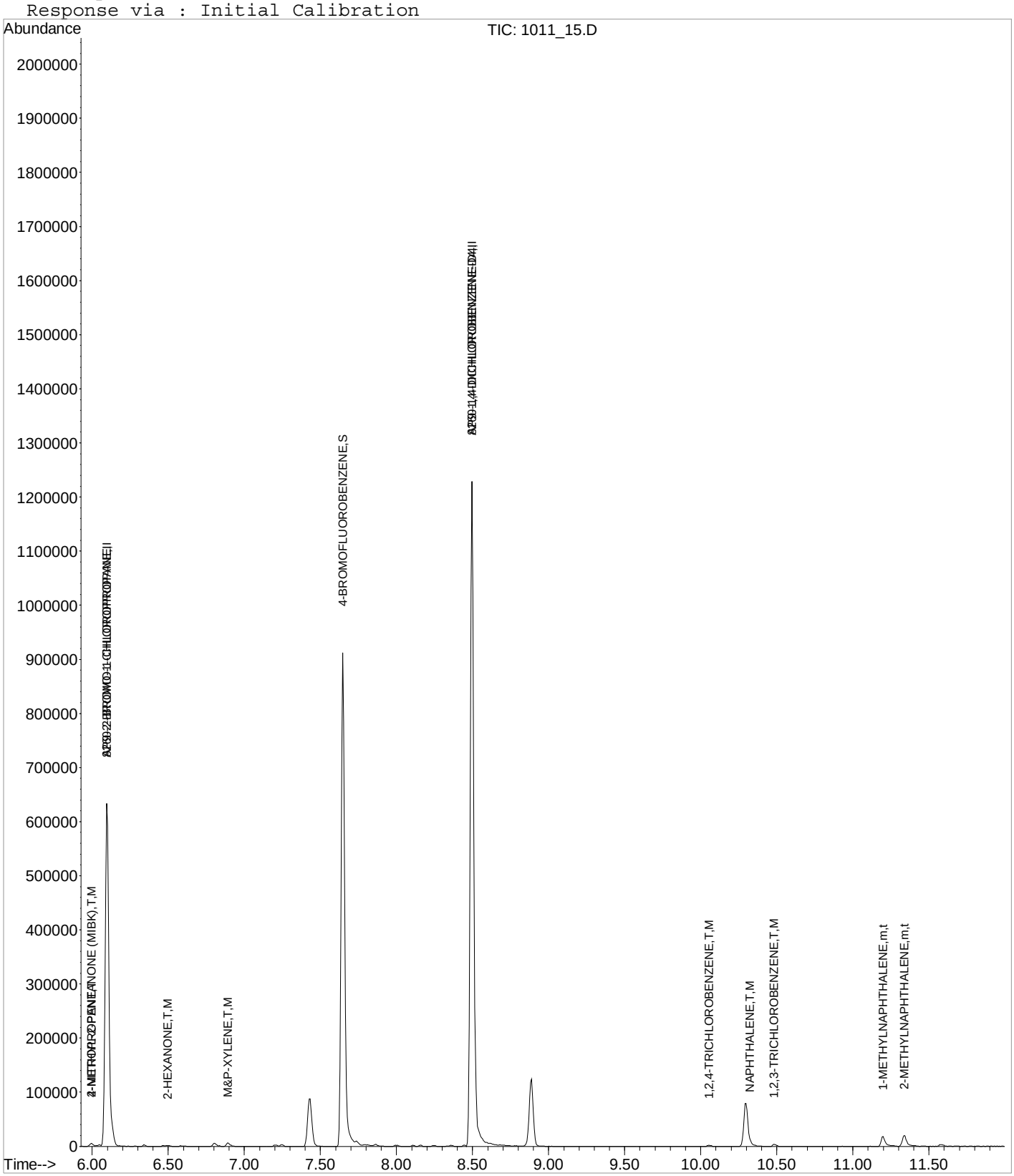
1900000
1800000
1700000
1600000
1500000
1400000
1300000
1200000
1100000
1000000
900000
800000
700000
600000
500000
400000
300000
200000
100000
0
Time-->
0.50
1.00
1.50
2.00
2.50
3.00
3.50
4.00
4.50
5.00
5.50
6.00
IODOMETHANE,T,M
ACROLEIN,T,M
ACETONE,T,M
ACRYLONITRILE,T,M
VINYL ACETATE,T,M
DIBROMOFLUOROMETHANE,S
2-BUTANONE (MEK),T,M
4-BROMOFLUOROBENZENE,I
1,4-DIFLUOROBENZENE,I
CHLOROBENZENE-D5,I
4-BROMOFLUOROBENZENE,I
1,4-DICHLOROBENZENE-D4,I
1,2-DICHLOROBENZENE-D4,I
1,4-DIOXANE-D8,S
4-BROMOFLUOROBENZENE,I
1,4-DICHLOROBENZENE-D4,I
1,2-DICHLOROBENZENE-D4,I

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_15.D Vial: 15
Acq On : 11 Oct 2015 11:13 pm Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 17.D Vial: 17
Acq On : 12 Oct 2015 12:02 am Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57:51 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

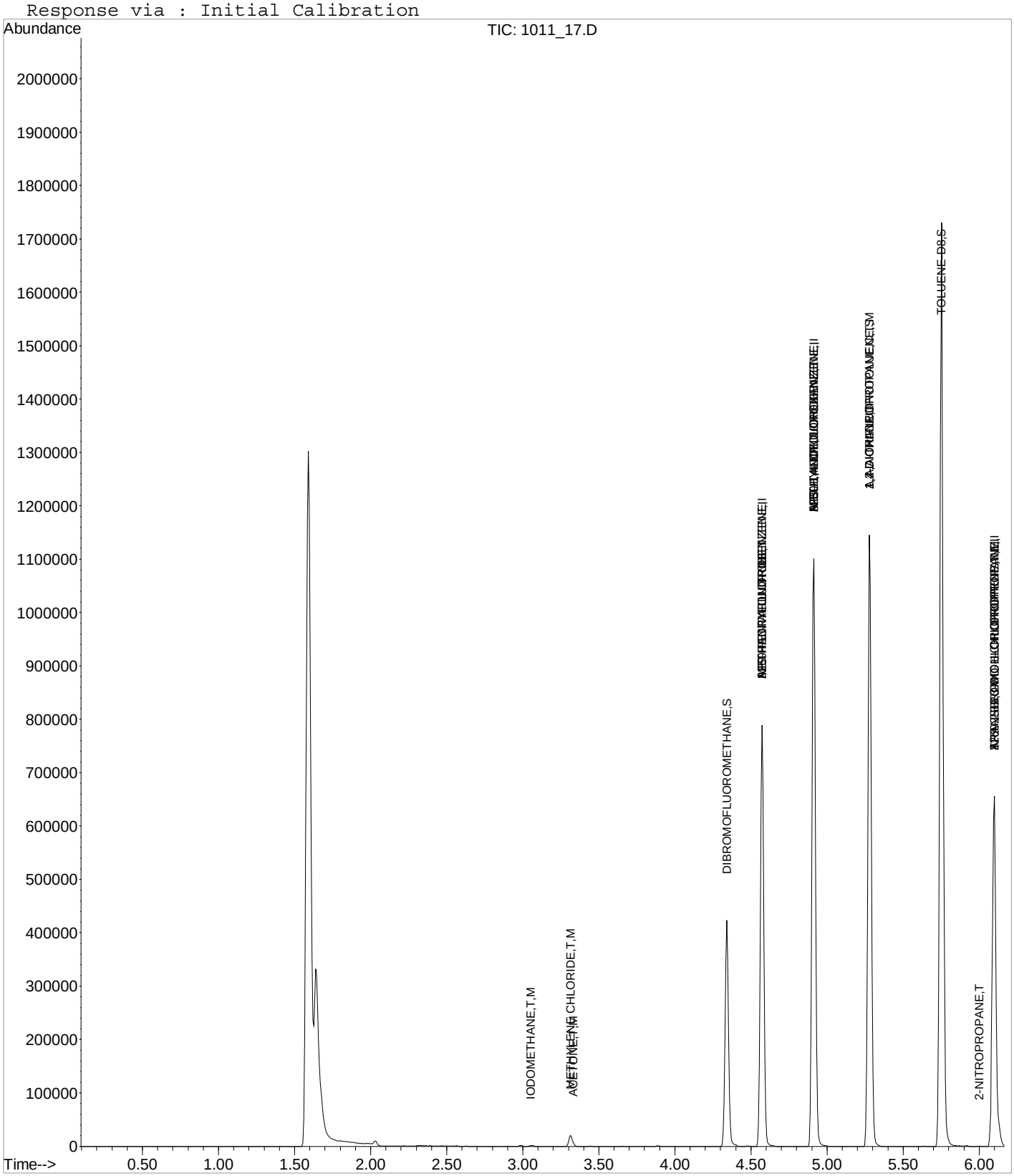
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	423063	40.00	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	767990	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	124638	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	306152	40.00	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.57	168	423210	40.00	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	767990	40.00	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.10	79	124638	40.00	ppb	0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	306152	40.00	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.34	111	212587	40.2160362	ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 100.54%			
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	414130	42.1353666	ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 105.34%			
50) TOLUENE-D8	5.75	98	984248	42.6617168	ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 106.65%			
68) 4-BROMOFLUOROBENZENE	7.64	95	345370	41.7698795	ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 104.42%			
Target Compounds						Qvalue
16) ACETONE	3.34	43	1094	0.3931587	ppb #	39
17) IODOMETHANE	3.05	142	2157	2.0371440	ppb #	73
19) METHYLENE CHLORIDE	3.31	84	9155	2.0882286	ppb	99
43) 1,2-DICHLOROPROPANE	5.28	62	7393	2.1577394	ppb #	25
52) TRANS-1,3-DICHLOROPROPENE	6.10	75	5876	0.9217618	ppb #	1
94) 1-METHYLNAPHTHALENE	11.21	142	2921	0.4327577	ppb #	92
95) 2-METHYLNAPHTHALENE	11.34	142	3440	0.5204629	ppb #	90
108) METHACRYLONITRILE	4.57	67	1013	0.4209538	ppb #	1
115) N-BUTANOL	4.91	56	14338	67.4286285	ppb #	23
116) METHYL CYCLOHEXANE	4.91	83	8309	0.5280321	ppb #	43
117) 2-NITROPROPANE	6.00	43	496	0.3321867	ppb #	17
119) 1,4-DIOXANE	5.28	88	4527	65.4143975	ppb #	23

(#) = qualifier out of range (m) = manual integration
1011_17.D V808J11O.M Mon Oct 12 10:57:56 2015 1779 of 1797 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 17.D Vial: 17
Acq On : 12 Oct 2015 12:02 am Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57 2015 Quant Results File: V808J11O.RES

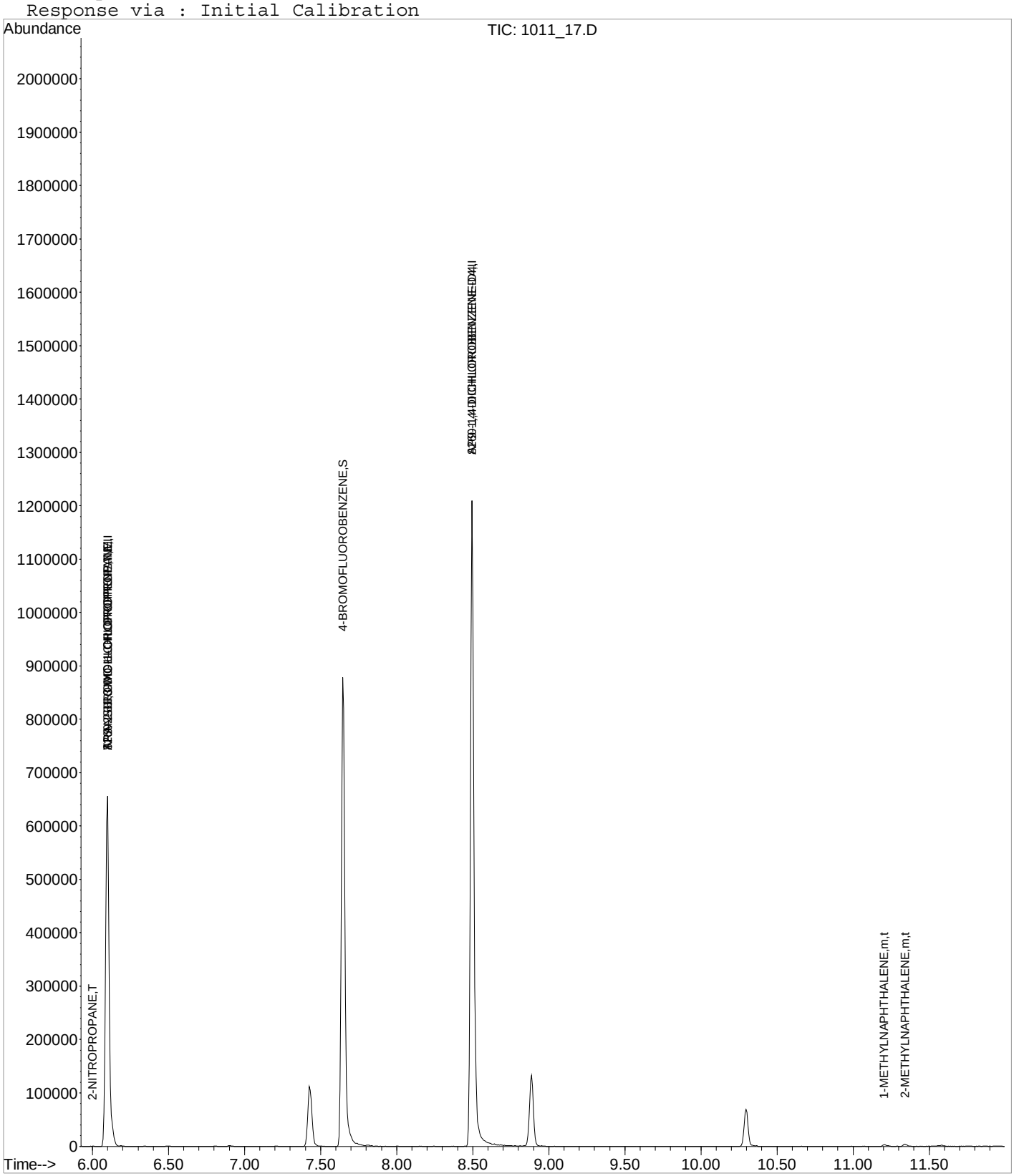
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_17.D Vial: 17
Acq On : 12 Oct 2015 12:02 am Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 17.D Vial: 17
Acq On : 12 Oct 2015 12:02 am Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57:51 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

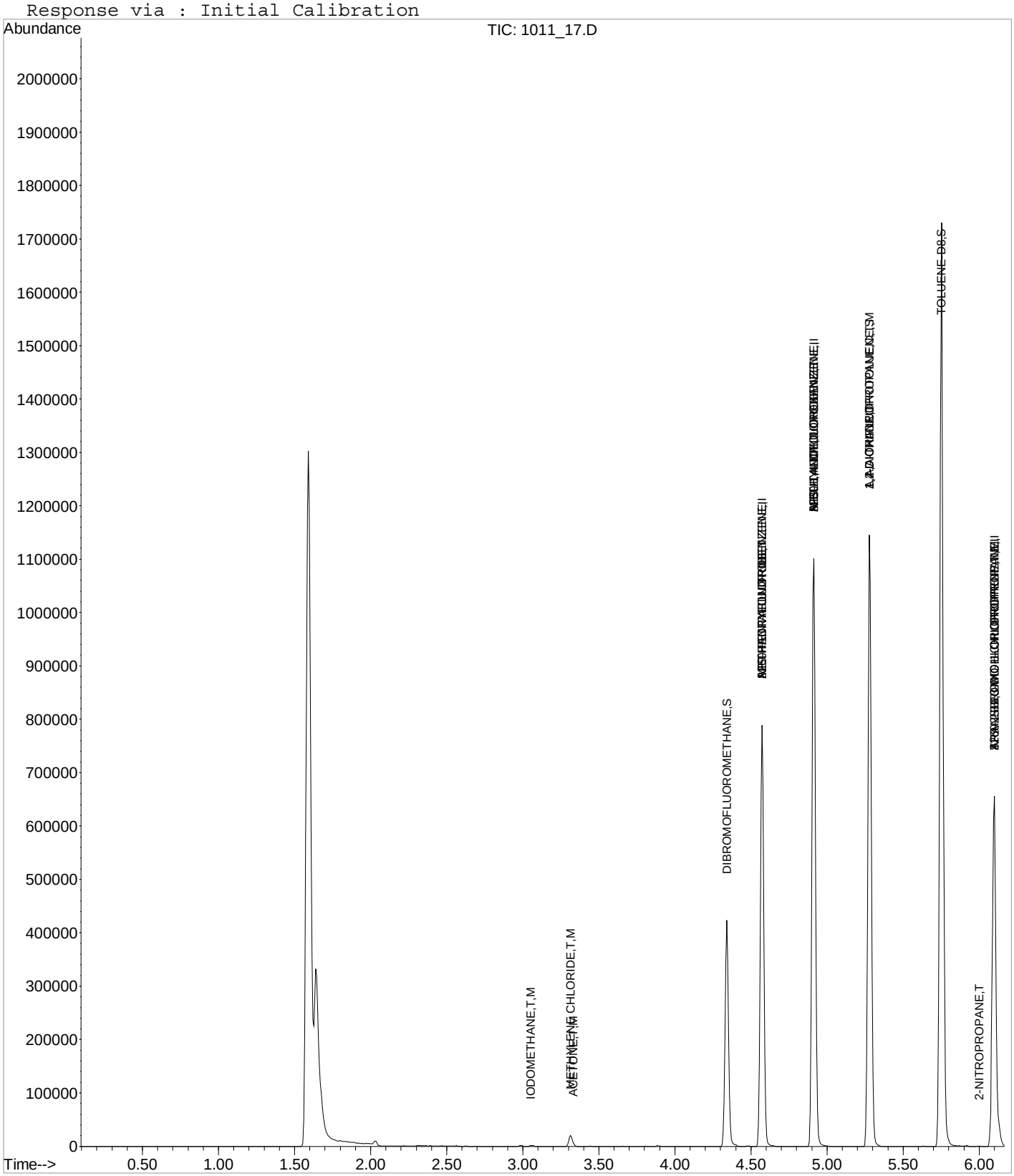
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	423063	40.00	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	767990	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	124638	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	306152	40.00	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.57	168	423210	40.00	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	767990	40.00	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.10	79	124638	40.00	ppb	0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	306152	40.00	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.34	111	212587	40.2160362	ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 100.54%			
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	414130	42.1353666	ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 105.34%			
50) TOLUENE-D8	5.75	98	984248	42.6617168	ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 106.65%			
68) 4-BROMOFLUOROBENZENE	7.64	95	345370	41.7698795	ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 104.42%			
Target Compounds						Qvalue
16) ACETONE	3.34	43	1094	0.3931587	ppb	# 39
17) IODOMETHANE	3.05	142	2157	2.0371440	ppb	# 73
19) METHYLENE CHLORIDE	3.31	84	9155	2.0882286	ppb	99
43) 1,2-DICHLOROPROPANE	5.28	62	7393	2.1577394	ppb	# 25
52) TRANS-1,3-DICHLOROPROPENE	6.10	75	5876	0.9217618	ppb	# 1
94) 1-METHYLNAPHTHALENE	11.21	142	2921	0.4327577	ppb	# 92
95) 2-METHYLNAPHTHALENE	11.34	142	3440	0.5204629	ppb	# 90
108) METHACRYLONITRILE	4.57	67	1013	0.4209538	ppb	# 1
115) N-BUTANOL	4.91	56	14338	67.4286285	ppb	# 23
116) METHYL CYCLOHEXANE	4.91	83	8309	0.5280321	ppb	# 43
117) 2-NITROPROPANE	6.00	43	496	0.3321867	ppb	# 17
119) 1,4-DIOXANE	5.28	88	4527	65.4143975	ppb	# 23

(#) = qualifier out of range (m) = manual integration
1011_17.D V808J11O.M Mon Oct 12 10:57:56 2015 1782 of 1797 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 17.D Vial: 17
Acq On : 12 Oct 2015 12:02 am Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57 2015 Quant Results File: V808J11O.RES

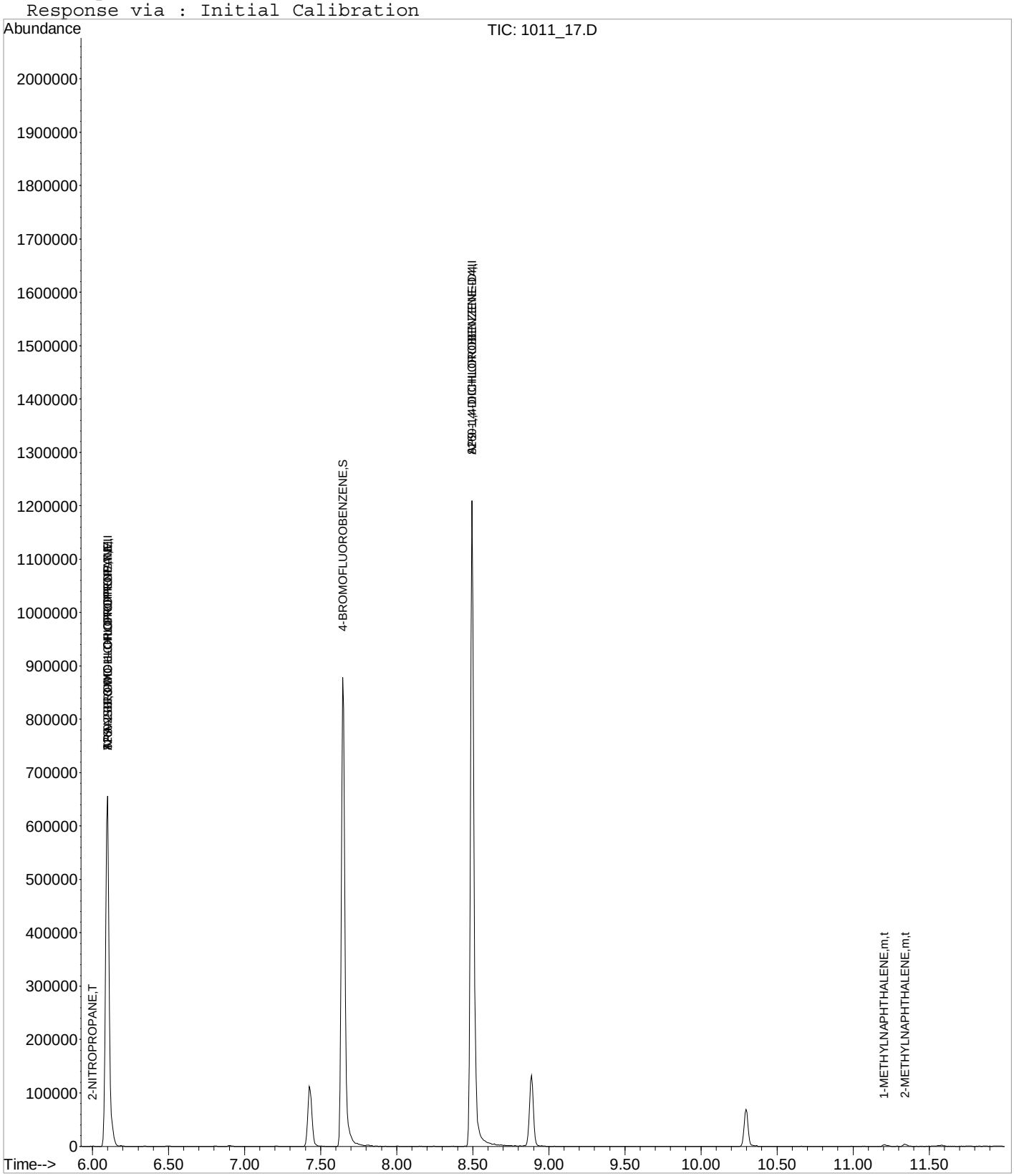
Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011_17.D Vial: 17
Acq On : 12 Oct 2015 12:02 am Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:57 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 28.D Vial: 28
Acq On : 12 Oct 2015 4:27 am Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 5.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:58:00 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration
DataAcq Meth : 8260_S

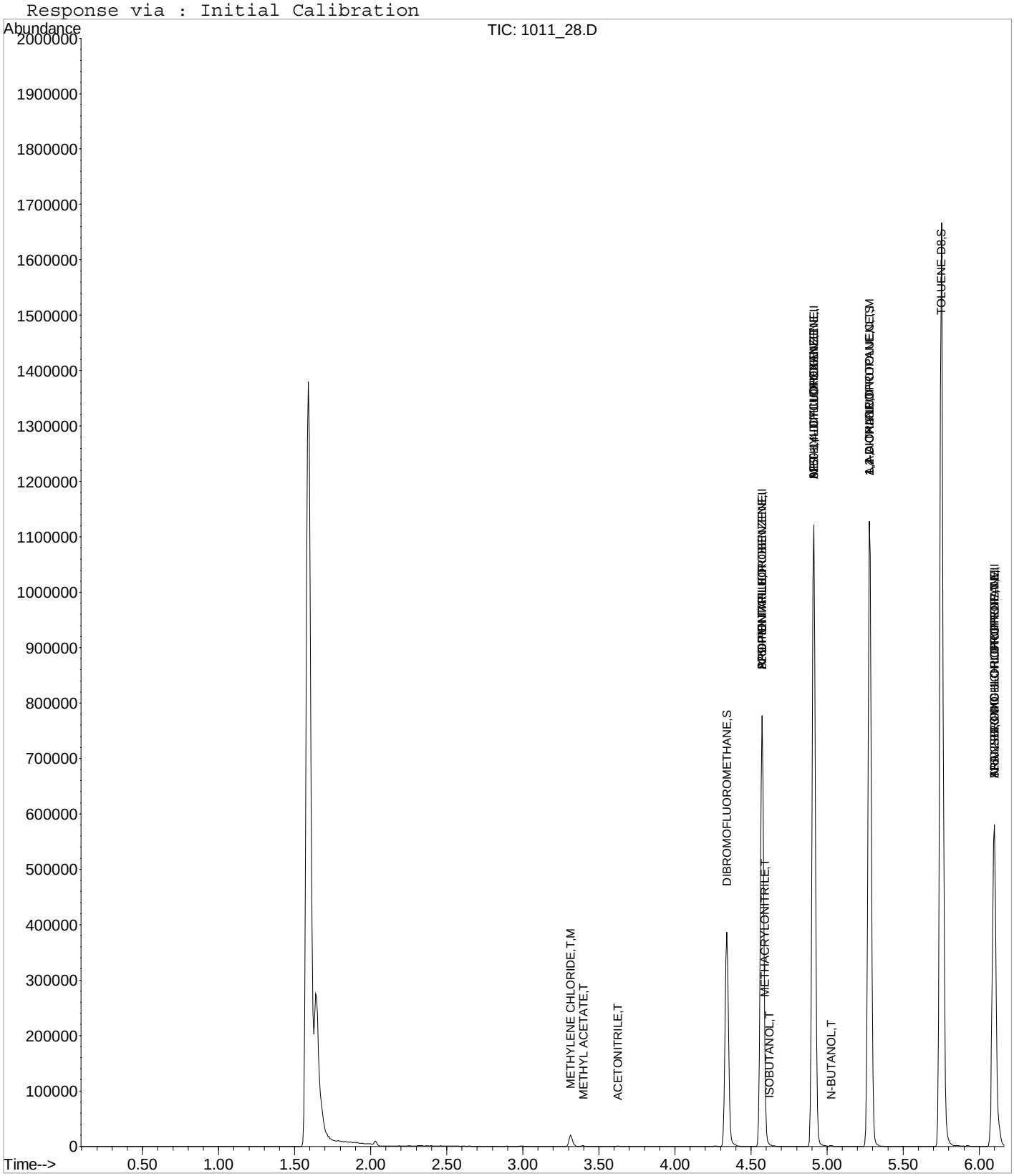
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 8260-PENTAFLUOROBENZENE	4.57	168	434595	40.00	ppb	0.00
41) 8260-1,4-DIFLUOROBENZENE	4.91	114	764495	40.00	ppb	0.00
53) 8260-2-BROMO-1-CHLOROPROPA	6.10	79	117903	40.00	ppb	0.00
84) 8260-1,4-DICHLOROBENZENE-D	8.50	152	291117	40.00	ppb	0.00
96) AP9-PENTAFLUOROBENZENE	4.57	168	435171	40.00	ppb	0.00
114) AP9-1,4-DIFLUOROBENZENE	4.91	114	764495	40.00	ppb	0.00
122) AP9-2-BROMO-1-CHLOROPROPAN	6.10	79	117903	40.00	ppb	0.00
128) AP9-1,4-DICHLOROBENZENE-D4	8.50	152	291117	40.00	ppb	0.00
System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.34	111	205211	37.7905764	ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 94.48%			
46) A,A,A-TRIFLUOROTOLUENE	5.28	146	410779	41.9854907	ppb	0.00
Spiked Amount 40.000	Range 87 - 117		Recovery = 104.96%			
50) TOLUENE-D8	5.75	98	971331	42.2943108	ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 105.74%			
68) 4-BROMOFLUOROBENZENE	7.64	95	325919	41.6690795	ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 104.17%			
Target Compounds						Qvalue
16) ACETONE	3.33	43	195	0.3410951	ppb	# 39
18) CARBON DISULFIDE	2.98	76	1130	0.3714221	ppb	# 71
19) METHYLENE CHLORIDE	3.31	84	9403	10.4394218	ppb	99
43) 1,2-DICHLOROPROPANE	5.28	62	6994	10.2530913	ppb	# 27
52) TRANS-1,3-DICHLOROPROPENE	6.09	75	5121	4.0349916	ppb	# 1
69) BROMOBENZENE	7.64	77	1612	0.9471940	ppb	# 29
83) DICYCLOPENTADIENE	8.50	66	4930	1.2461533	ppb	# 70
100) METHYL ACETATE	3.40	43	1550	1.8646912	ppb	# 51
101) ACETONITRILE	3.62	41	556	3.7133016	ppb	# 35
106) PROPIONITRILE	4.58	54	1253	6.6406695	ppb	# 1
107) ETHYL ACETATE	4.27	43	873	0.8015886	ppb	# 66
108) METHACRYLONITRILE	4.60	67	3652	7.3794109	ppb	# 63
111) ISOBUTANOL	4.63	43	644	7.9337614	ppb	# 67
115) N-BUTANOL	5.03	56	1088	25.7001445	ppb	# 66
116) METHYL CYCLOHEXANE	4.91	83	8238	2.6295674	ppb	# 44
119) 1,4-DIOXANE	5.28	88	4196	304.5434413	ppb	# 23

(#) = qualifier out of range (m) = manual integration
1011_28.D V808J11O.M Mon Oct 12 10:58:04 2015 1785 of 1797 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\101115\1011 28.D Vial: 28
Acq On : 12 Oct 2015 4:27 am Operator: 591
Sample : INSTBLK Inst : VOCMS8
Misc : soil IS/SURR15H19728 Multiplr: 5.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:58 2015 Quant Results File: V808J11O.RES

Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
Response via : Initial Calibration



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Acq On : 12 Oct 2015 4:27 am Operator: 591
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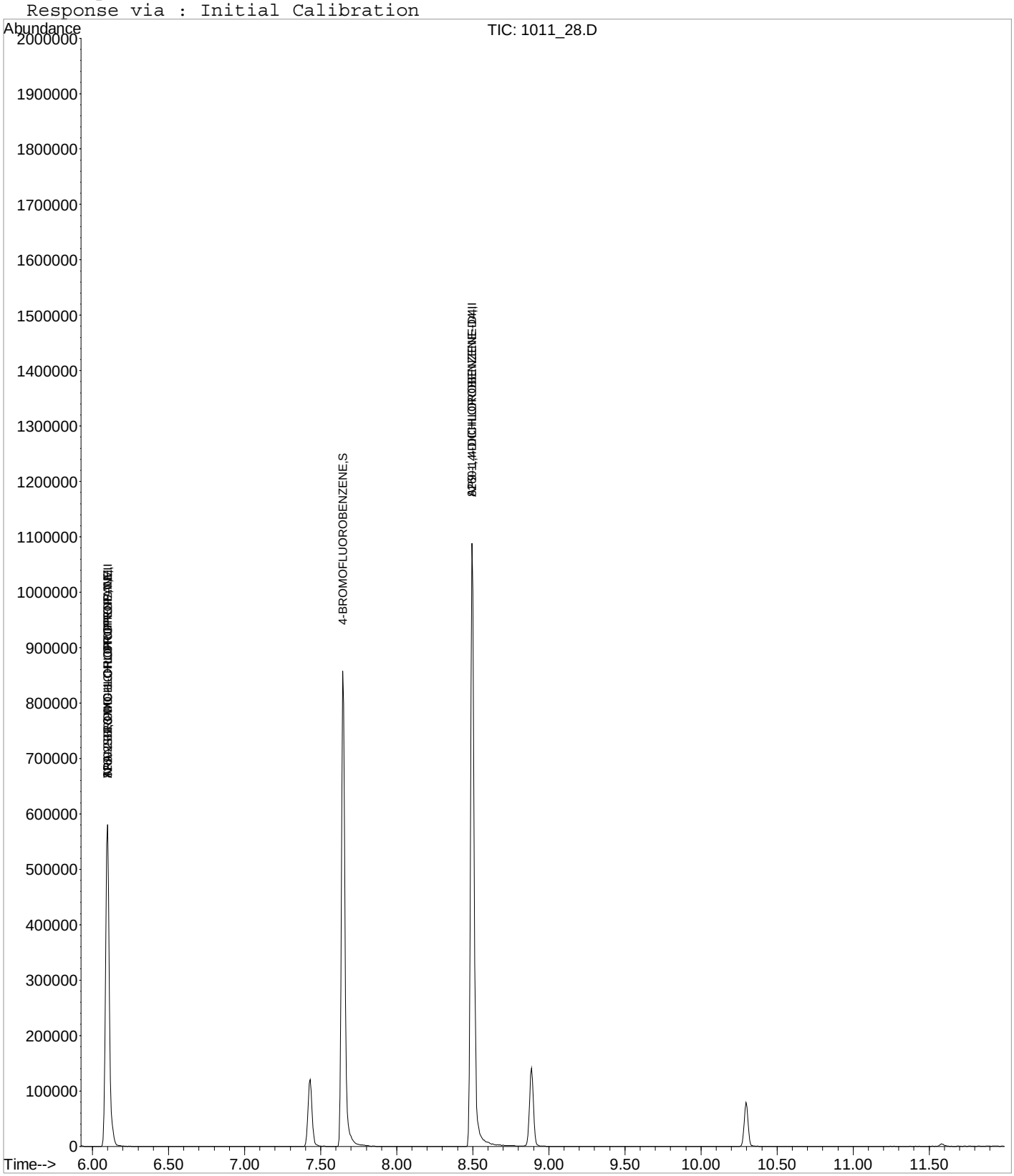

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Acq On : 12 Oct 2015 4:27 am Operator: 591
Sample : INSTBLK Inst : VOCMS8
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Quant Time: Oct 12 10:58:00 2015 Quant Results File: V808J11O.RES

Quant Method : C:\MSDCHEM\1\METHODS\V808J11O.M (RTE Integrator)
Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
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DataAcq Meth : 8260_S

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System Monitoring Compounds						
33) DIBROMOFLUOROMETHANE	4.34	111	205211	37.7905764	ppb	0.00
Spiked Amount 40.000	Range 76 - 123		Recovery = 94.48%			
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50) TOLUENE-D8	5.75	98	971331	42.2943108	ppb	0.00
Spiked Amount 40.000	Range 89 - 115		Recovery = 105.74%			
68) 4-BROMOFLUOROBENZENE	7.64	95	325919	41.6690795	ppb	0.00
Spiked Amount 40.000	Range 70 - 129		Recovery = 104.17%			
Target Compounds						Qvalue
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1011_28.D V808J11O.M Mon Oct 12 10:58:04 2015 1788 of 1797 Page 1

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Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
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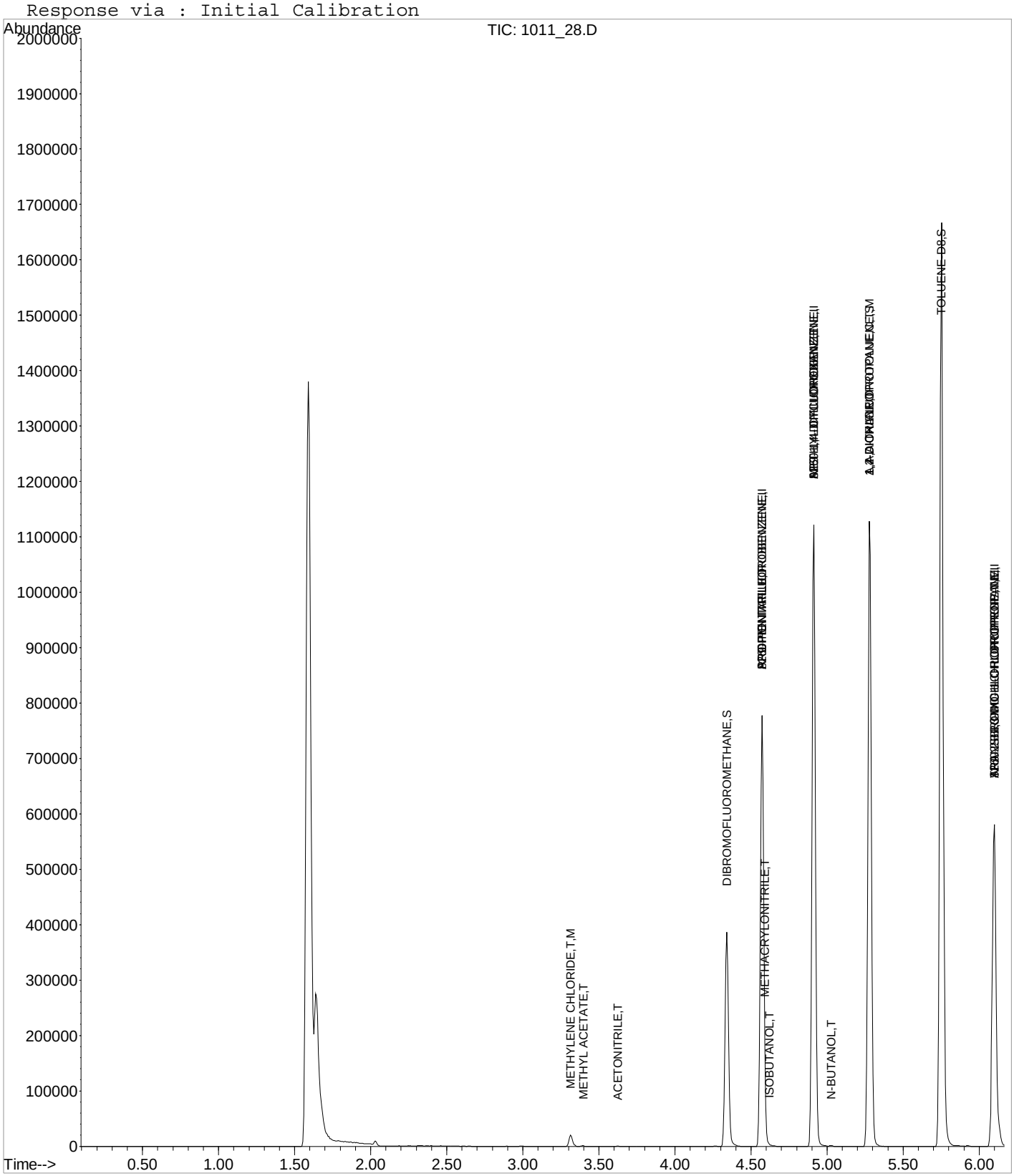

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Misc : soil IS/SURR15H19728 Multiplr: 5.00
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Quant Time: Oct 12 10:58 2015 Quant Results File: V808J11O.RES

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Title : Env. Science Corp. 8260B/6210D/624 - VOCMS08
Last Update : Mon Oct 12 10:55:32 2015
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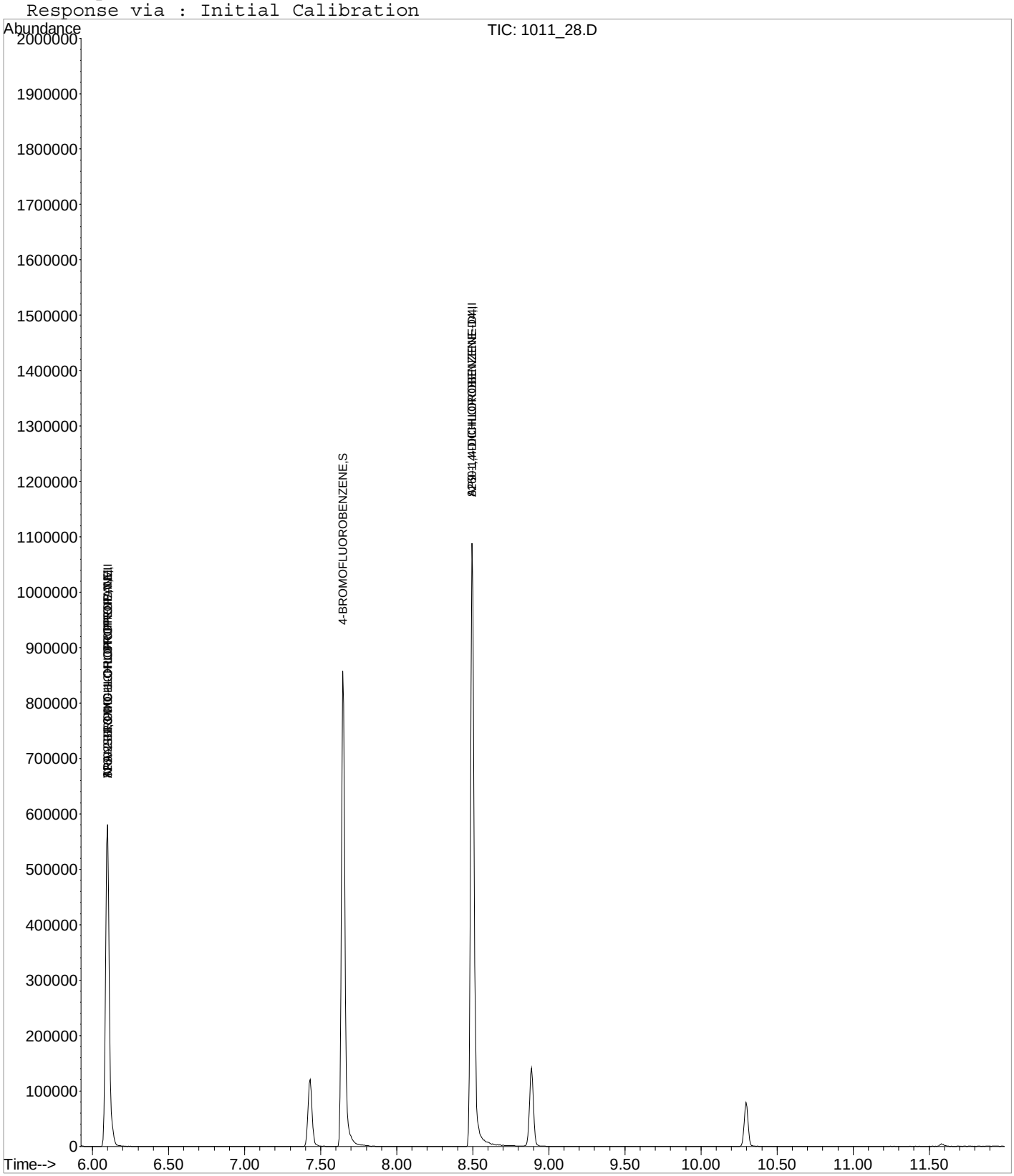

LaBella Associates, P.C.

300 State Street, Suite 201
Rochester, NY 14614

Billing Information:
Attn: Accounts Payable
300 State St., Ste. 201
Rochester, NY 14614
sdavis@labellapc.com

Report to: Mr. Dave Engert /Seth Davis
Email To: Jgillen@labellapc.com; dengert@labellapc.com; ~~srife@labellapc.com~~

Project Description: Former Photech Imaging Site
City/State Collected: Rochester, NY

Phone: 585-454-6110
Fax:

Client Project # 2151305
Lab Project #

Collected by (print): Nicholas Iwaniuk
Site/Facility ID #
P.O. #

Collected by (signature): Nicholas P. Iwaniuk
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Metals 500mlHDPE-HNO3	V8260TCLC 40mlAmb-HCl								Rem./Contaminant	Sample # (lab only)
RMW-5	GRAB	GW	NA	10/7/15	1014	3	X	X									01
RMW-6	"	GW	"	10/7/15	1205	3	X	X									02
RMW-8	"	GW	"	10/7/15	1300	3	X	X									03
RMW-9	"	GW	"	10/7/15	1507	3	X	X									04
Blind Dup	"	GW	"	10/7/15	1800	3	X	X									05
RMW-7	"	GW	"	10/8/15	0930	9 MS	X	X								MS/MSD	06
RMW-4	"	GW	"	10/8/15	1126	3	X	X								Hold For Analysis	07
Well-07	"	GW	"	10/8/15	1302	3	X	X									08
RMW-VI03	"	GW	"	10/8/15	1428	3	X	X									09
Well-09	"	GW	"	10/8/15	1544	3	X	X									10

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: ASP Category B; Equis EDD

pH _____ Temp _____
Flow _____ Other _____

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
Temp: 3.2 °C Bottles Received: 52

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Nicholas P. Iwaniuk	10/9/15	1600	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Ryan Lane

Date: 10/10/15 Time: 900

Hold #
Condition: (lab use only) Good
COC Seal Intact: ___Y ___N ___NA
pH Checked: NCF:

Chain of Custody Page ___ of ___

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 79389 L
A243
Acctnum: LABRNY
Template: T106232
Prelogin: P527154
TSR: 364 - T. Alan Harvill
PB: 10-5-15 ME
Shipped Via: FedEx Ground

G529189633201

LaBella Associates, P.C.

300 State Street, Suite 201
Rochester, NY 14614

Billing Information:
Attn: Accounts Payable
300 State St., Ste. 201
Rochester, NY 14614
sdavis@labellapc.com

Report to: Mr. Dave Engert / Seth Davis

Email To: Jgillen@labellapc.com; dengert@labellapc.com; ~~srife@labellapc.com~~

Project Description: Former Photech Imaging Site

City/State Collected: Rochester, NY

Phone: 585-454-6110
Fax:

Client Project # 2151305

Lab Project #

Collected by (print): Nicholas Inzinna

Site/Facility ID #

P.O. #

Collected by (signature): Nicholas P. Inzinna
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	Metals 500mlHDPE-HNO3	V8260TCLC 40mlAmb-HCl	Rem./Contaminant	Sample # (lab only)
RMW-2	Grab	GW	~~10/8/15~~ NA	10/8/15	1703	3	X	X		11
RMW-1	"	GW	NA	10/9/15	0938	3	X	X		12
Well-04	"	GW	"	10/9/15	1102	3	X	X		13
EQ Blank	"	GW	"	10/9/15	1130	3	X	X		14
Purge Water	"	GW	"	10/9/15	1145	3	X	X		15
Trip Blank	NA	GW	NA	NA	NA	1 NJ	X	X		16

Analysis / Container / Preservative

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: ASP Category B, Equis EDD.

pH _____ Temp _____
Flow _____ Other _____

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Nicholas P. Inzinna	10/9/15	1600	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)
			Ryan Lee

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
Temp: 3.2 °C Bottles Received: 52
Date: 10/10/15 Time: 900

Hold #
Condition: (lab use only) GD10
COC Seal Intact: ✓ Y ___N ___NA
pH Checked: NCF:

Chain of Custody Page ___ of ___

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 743892
Table #
Acctnum: LABRNY
Template: T106232
Prelogin: P527154
TSR: 364 - T. Alan Harvill
PB: 10-5-15 PB
Shipped Via: FedEX Ground

Matt Shacklock

From: Jason Romer
Sent: Friday, October 09, 2015 2:38 PM
To: Login
Subject: Samples received today for LABRNY - project Phototech

RMW4 is listed on the COC as HOLD. Per client's email below, please analyze this sample.

Thanks,
Jason Romer
Technical Service Representative (TSR)
E-mail: jromer@esclabsciences.com
Phone: 800-767-5859 Ext. 9713
Direct: 615-773-9713
www.esclabsciences.com

From: Davis, Seth [mailto:sdavis@LaBellaPC.com]
Sent: Friday, October 09, 2015 2:21 PM
To: Jason Romer
Subject: FW: Photech samples

Please see the original email to Alan below.

Thanks,

Seth Davis
LaBella Associates, D.P.C.
Direct: 585-295-6659

From: Davis, Seth
Sent: Friday, October 09, 2015 3:21 PM
To: 'Alan Harvill' (AHarvill@esclabsciences.com)
Cc: Rob Senska (RSenska@esclabsciences.com)
Subject: Photech samples

Alan, today we sent groundwater samples from our Photech site for analysis. RMW4 was indicated to be put on hold on the chain of custody. You can proceed with running that sample.

Let me know if you have questions.

Thanks,

Seth Davis
Environmental Construction Specialist
Direct: 585-295-6659 | sdavis@labellapc.com
LABELLA ASSOCIATES, D.P.C.

Susan Peach

From: Troy Dunlap
Sent: Tuesday, October 13, 2015 7:31 AM
To: Jason Romer; Login
Cc: Reporting
Subject: RE: L793892-15 *LABRNY* remove analysis.

Done.

This E-mail and any attached files are confidential, and may be copyright protected. If you are not the addressee, any dissemination of this communication is strictly prohibited. If you have received this message in error, please contact the sender immediately and delete/destroy all information received.

From: Jason Romer
Sent: Monday, October 12, 2015 4:08 PM
To: Login
Cc: Reporting
Subject: L793892-15 *LABRNY* remove analysis.

Per Seth Davis at LaBella Associates, please cancel analysis of the Purge Water sample (L793892-15).

Reporting – please also scan this email to COC.

Thanks,

Jason Romer
Technical Service Representative (TSR)
E-mail: **jromer@esclabsciences.com**
Phone: 800-767-5859 Ext. 9713
Direct: 615-773-9713
www.esclabsciences.com

ESC Lab Sciences

Login Confirmation Report

October 13, 2015 - 13:18

YOUR LAB OF CHOICE

Account: LABRNY - LaBella Associates, P.C.

Login #	**L793892**	Receive Date: 10/10/2015	TSR: T. Alan Harvill
Template #	T106232	Entered: 10/10/2015	By: Matt Shacklock
Report to:	Mr. Dave Engert	Lab Project Number:	**Report MDL: N**
	300 State Street, Suite 201	Client Project # 2151305	**HDC: N**
	Rochester, NY 14614	Project Description:	PO #
		Collected By: Nick Inzinna	PO Req: N
Phone:	(585) 454-6110 FAX:	Reg. State: NY	Terms: 60
Email:	sdavis@labellapc.com; Jgillen@labellapc.com; dengert@labellapc.com; srife@labellapc.com		Quote #

Proj/Acct Comments: **NY 8270, 8270TCL, PAHSIMLVI, PAH - always 8270D**
NY VOCs - V8260C
Be careful client works in many different states
VOCs - TCL + CP-51 = V8260TCL with LABRNY-TCL+STARS ESC key

Matrix	Test	Sample ID	Collection Date	Design ID	Method	Unit Price
L793892-01		**RMW-5**	**10/07/2015 10:14**	**Site:**	**Est. Due Date*: 10/16/2015 - R5**	
			Sample Description: Former Photech Imaging Site			
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	MRCRA8	RCRA Metals				$ 75.00
GW	AGICP	Silver		PPB2	6010C	$ 0.00
GW	ASICP	Arsenic		PPB2	6010C	$ 0.00
GW	BAICP	Barium		PPB2	6010C	$ 0.00
GW	CDICP	Cadmium		PPB2	6010C	$ 0.00
GW	CRICP	Chromium		PPB2	6010C	$ 0.00
GW	HG	Mercury		PPB2	7470A	$ 0.00
GW	PBICP	Lead - 6010		PPB2	6010C	$ 0.00
GW	SEICP	Selenium		PPB2	6010C	$ 0.00
GW	V8260TCLC	TCL Volatiles		PPB2	8260C	$ 75.00
Misc	DISPOSAL	Sample Disposal Charge				$ 0.00
Misc	ENERGY	Energy Surcharge				$ 0.00
Misc	HARDCOPY	Hardcopy Report Charge				$ 0.00
Misc	MTLPREP	Metals Prep Fee per Set				$ 0.00
Misc	SAMPLEKIT	Sample Kit / Supplies Fee				$ 0.00
Misc	SHIPPING	Inbound Transport Charge				$ 0.00
L793892-02		**RMW-6**	**10/07/2015 12:05**	**Site:**	**Est. Due Date*: 10/16/2015 - R5**	
			Sample Description: Former Photech Imaging Site			
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	MRCRA8	RCRA Metals				$ 75.00
GW	V8260TCLC	TCL Volatiles		PPB2	8260C	$ 75.00
L793892-03		**RMW-8**	**10/07/2015 13:00**	**Site:**	**Est. Due Date*: 10/16/2015 - R5**	
			Sample Description: Former Photech Imaging Site			
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	MRCRA8	RCRA Metals				$ 75.00
GW	V8260TCLC	TCL Volatiles		PPB2	8260C	$ 75.00

L793892-04		**RMW-9**	**10/07/2015 15:07** Sample Description: Former Photech Imaging Site	**Site:**		**Est. Due Date*: 10/16/2015 - R5**
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	MRCRA8	RCRA Metals				$ 75.00
GW	V8260TCLC	TCL Volatiles		PPB2	8260C	$ 75.00
L793892-05		**BLIND DUP**	**10/07/2015 18:00** Sample Description: Former Photech Imaging Site	**Site:**		**Est. Due Date*: 10/16/2015 - R5**
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	MRCRA8	RCRA Metals				$ 75.00
GW	V8260TCLC	TCL Volatiles		PPB2	8260C	$ 75.00
L793892-06		**RMW-7**	**10/08/2015 09:30** Sample Description: Former Photech Imaging Site Sample Comments: MS/MSD	**Site:**		**Est. Due Date*: 10/16/2015 - R5**
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	MRCRA8	RCRA Metals				$ 75.00
GW	V8260TCLC	TCL Volatiles		PPB2	8260C	$ 75.00
L793892-07		**RMW-4**	**10/08/2015 11:26** Sample Description: Former Photech Imaging Site	**Site:**		**Est. Due Date*: 10/16/2015 - R5**
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	MRCRA8	RCRA Metals				$ 75.00
GW	V8260TCLC	TCL Volatiles		PPB2	8260C	$ 75.00
L793892-08		**WELL-07**	**10/08/2015 13:02** Sample Description: Former Photech Imaging Site	**Site:**		**Est. Due Date*: 10/16/2015 - R5**
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	MRCRA8	RCRA Metals				$ 75.00
GW	V8260TCLC	TCL Volatiles		PPB2	8260C	$ 75.00
L793892-09		**RMW-3**	**10/08/2015 14:28** Sample Description: Former Photech Imaging Site	**Site:**		**Est. Due Date*: 10/16/2015 - R5**
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	MRCRA8	RCRA Metals				$ 75.00
GW	V8260TCLC	TCL Volatiles		PPB2	8260C	$ 75.00
L793892-10		**WELL-09**	**10/08/2015 15:44** Sample Description: Former Photech Imaging Site	**Site:**		**Est. Due Date*: 10/16/2015 - R5**
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	MRCRA8	RCRA Metals				$ 75.00
GW	V8260TCLC	TCL Volatiles		PPB2	8260C	$ 75.00
L793892-11		**RMW-2**	**10/08/2015 17:03** Sample Description: Former Photech Imaging Site	**Site:**		**Est. Due Date*: 10/16/2015 - R5**
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	MRCRA8	RCRA Metals				$ 75.00
GW	V8260TCLC	TCL Volatiles		PPB2	8260C	$ 75.00
L793892-12		**RMW-1**	**10/09/2015 09:38** Sample Description: Former Photech Imaging Site	**Site:**		**Est. Due Date*: 10/16/2015 - R5**
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	MRCRA8	RCRA Metals				$ 75.00
GW	V8260TCLC	TCL Volatiles		PPB2	8260C	$ 75.00

L793892-13		**WELL-04**	**10/09/2015 11:02** Sample Description: Former Photech Imaging Site	**Site:**	**Est. Due Date*: 10/16/2015 - R5**	
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	MRCRA8	RCRA Metals				$ 75.00
GW	V8260TCLC	TCL Volatiles		PPB2	8260C	$ 75.00
L793892-14		**EQ BLANK**	**10/09/2015 11:30** Sample Description: Former Photech Imaging Site Sample Comments: -15 removed per JR. TD 10/13	**Site:**	**Est. Due Date*: 10/16/2015 - R5**	
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	MRCRA8	RCRA Metals				$ 75.00
GW	V8260TCLC	TCL Volatiles		PPB2	8260C	$ 75.00
L793892-16		**TRIP BLANK**	**10/09/2015 00:00** Sample Description: Former Photech Imaging Site	**Site:**	**Est. Due Date*: 10/16/2015 - R5**	
GW	EDD	Electronic Data Deliverable				$ 0.00
GW	V8260TCLC	TCL Volatiles		PPB2	8260C	$ 75.00

Information Only - Not An Invoice - Do Not Pay! Total: $ 2,175.00

Minimum Invoice: $ 100.00

*** Due Date listed is an estimate based on average workloads. Please communicate required dates to your TSR.**

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX 2

DATA USABILITY SUMMARY REPORT

for

LABELLA ASSOCIATES, P.C.

300 State Street

Rochester, NY 14614

PHOTECH SITE
Project 2151305
Aqueous Samples
SDG: L793892
Sampled October 2015

VOLATILE ORGANICS, METALS

RMW-5	(L793892-01)	RMW-6	(L793892-02)
RMW-8	(L793892-03)	RMW-9	(L793892-04)
BLIND DUP	(L793892-05)	RMW-7	(L793892-06)
RMW-4	(L793892-07)	WELL-7	(L793892-08)
RMW-3	(L793892-09)	WELL-9	(L793892-10)
RMW-2	(L793892-11)	RMW-1	(L793892-12)
WELL-4	(L793892-13)	EQ BLK	(L793892-14)
TRIP BLK	(L793892-16)		

DATA ASSESSMENT

An ASP Category B data package containing analytical results for thirteen aqueous sample, an equipment blank, and a trip blank was received from Labella Associates, P.C. on 27Oct15. The deliverables package included formal reports, raw data, the necessary QC, and supporting information. The samples, taken from the Photech Site, were identified by Chain of Custody documents and traceable through the work of ESC Lab Sciences, the laboratory contracted for analysis. Analyses, performed according to SW-846 methods, addressed determinations of volatile organics, mercury, arsenic, barium, cadmium, chromium, lead, selenium and silver. Laboratory data was evaluated according to the quality assurance / quality control requirements of the New York State Department of Environmental Conservation's Analytical Services Protocol (ASP), September 1989, Rev. 07/2005. When the required protocol was not followed, the current EPA Region II Functional Guidelines (SOP NO. HW-33, Rev. #3, March 2013, Low/Medium Volatile Data Validation and SOP HW-2a, Rev. 15, Dec. 2012, ICP-AES Data Validation) were used as a technical reference.

The trichloroethene results from this project have been qualified as estimations due to poor calibration performance.

The benzene result from RMW-7 has been qualified as an estimation due to a low matrix spike recovery.

CORRECTNESS AND USABILITY

It is noted that instrument detection limits were not identified in this report, and analyte concentrations falling between the instrument detection limit and the laboratory's reporting limit were not reported. Concentrations in this range are normally reported and identified as an estimation.

Reported data should be considered technically defensible and completely usable in its present form. Results representing a usable estimation of the conditions at the time of sampling have been flagged "UJ". Estimated data should be used with caution. A detailed discussion of the review process follows.

Two facts should be considered by all data users. No compound concentration, even if it has passed strict QC testing, can be guaranteed to be accurate. Strict QC serves to increase confidence in data, but any value potentially contains error. Secondly. DATAVAL, Inc. guarantees the quality of this data assessment. However, DATAVAL, Inc. does not warrant any interpretation or utilization of this data by a third party.

Reviewer's signature: James B. Baldwin Date: 29 Oct 15

Sample History

Analyte concentrations can deteriorate with time due to chemical instability, bacterial degradation or volatility. Samples that are not properly preserved or are not analyzed within established holding times may no longer be considered representative. Holding times are calculated from the Verified Time of Sample Receipt (VTSR). Samples must remain chilled to 4°C between the time of collection and the time of analysis. Acid preserved VOC samples must be analyzed within 12 days of VTSR, unpreserved VOC samples within 5 days. The holding time for soils is 12 days. Aqueous semivolatile organics, pesticides and PCB samples must be extracted within five days of VTSR. The samples must then be analyzed within forty days of extraction. The holding times for cyanide and mercury samples are 12 and 26 days, respectively. Metals samples must be analyzed within six months.

This sample delivery group contained thirteen aqueous samples, an equipment blank, and a trip blank that were collected from the Photech site between 07Oct15 and 09Oct15. Four samples and a blind duplicate were collected on 07Oct15. Six samples were collected on 08Oct15 and the final two samples and the two blanks were collected on 09Oct15. The entire group of samples was shipped to the laboratory, via FedEx, on 09Oct15 and was delivered the next morning. At the time of receipt, the samples were found to be intact and properly chilled to 3.2°C.

Proper sample preservation was documented in the field custody record. Although preservation checks were not documented at the time of receipt, the laboratory narrative indicates that each volume was properly stabilized. A pH=2 was recorded for each metal sample at the time of analysis.

Although the LaBella engineer indicates that custody seals were present on the sample coolers, their condition was not documented at the time of laboratory receipt.

VOLATILE ORGANICS

This group of samples was analyzed for volatile organics on 16Oct 15 and 19Oct15. The ASP and SW-846 holding time limitations were satisfied.

Blanks

Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Method blanks are analyzed to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

Three method blanks were analyzed with this group of samples. Each of these blanks demonstrated acceptable chromatography and was free of targeted analyte contamination.

MS Tuning

Mass spectrometer tuning and performance criteria are established to ensure sufficient mass resolution and sensitivity to accurately detect and identify targeted analytes. Verification is accomplished using a certified standard.

An Instrument Performance Check Standard of BFB was analyzed prior to each analytical sequence that included samples from this program. An Instrument Performance Check Form is present for each BFB evaluation. The BFB tunes associated with this group of samples satisfied the program acceptance criteria.

Calibrations

Requirements for instrument calibration are established to ensure that laboratory equipment is capable of producing accurate, quantitative data. Initial calibrations demonstrate a range through which measurements may be made. Continuing calibration check standards verify instrument stability.

Initial instrument calibrations were performed on 04Sep15, 15Sep15 and 11Oct15. Standards of 0.25, 0.5, 1.0, 5.0, 10, 25, 40, 75, 100 and 200 µg/l were included. With the exception of trichloroethene, the standards of each analyte targeted by this program produced the required levels of instrument response and demonstrated an acceptable degree of linearity during these calibrations. Trichloroethene standards (0.237) failed to produce the required levels of instrument response on 11Oct15. The trichloroethene concentration reported from RMW-3, the only associated sample, has been qualified as an estimation based on this performance.

Calibration check standards were analyzed on 16Oct15, 18Oct15 and 19Oct15, prior to the 12-hour periods of instrument operation that included samples from this program. During the checks on 16Oct15 and 18Oct15 trichloroethene failed to produce the required level of instrument response. The trichloroethene results from this project have been qualified as estimations based on this performance. When compared to the initial instrument calibrations, the remaining analytes demonstrated an acceptable level of instrument stability.

Surrogates

Each sample, blank and standard is spiked with surrogate compounds prior to analysis. The structures of surrogates are similar to analytes of interest, but they are not normally found in environmental samples. Surrogate recoveries are monitored to evaluate overall laboratory performance and the efficiency of laboratory technique.

Surrogate Summary Sheets were properly prepared using the laboratory's acceptance criteria. However, when compared to the ASP requirements, an acceptable recovery was reported for each surrogate addition to this group of samples.

Internal Standards

Internal standards are added to each sample, blank and standard just prior to injection. Analyte concentrations are calculated relative to the response of a specific internal standard. Internal standard performance criteria ensure that GC/MS sensitivity and response are stable during the analysis of each sample. The area of internal standard peaks may not vary by more than a factor of two. When compared to the preceding calibration check, retention times may not vary by more than 30 seconds.

The laboratory correctly calculated control limits for internal standard response and retention times. When compared to this criteria, acceptable performance was reported for the internal standard additions to this group of samples.

Matrix Spikes

Matrix spiking refers to the addition of known analyte concentrations to a sample, prior to analysis. Analyte recoveries provide an indication of laboratory accuracy. The analysis of a duplicate spiked aliquot provides a measurement of precision.

RMW-7 was selected for matrix spiking (MS/MSD). The entire list of targeted analytes was added to two aliquots of this sample. With the exception of the benzene addition to the 'MS' portion of the sample (71.9%), each pair of analytes demonstrated acceptable levels of measurement precision and accuracy. The benzene result from RMW-7 has been qualified as an estimation based on this performance.

Spiked samples were also prepared with a sample from an unrelated program. These results were not considered.

Three pairs of aqueous spiked blanks (LCS/LCSD) were also analyzed with this group of samples. Each of these LCS/LCSD pairs produced acceptable analyte recoveries.

Duplicates

Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. The results produced by the analysis of this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

Although duplicate samples were not evaluated, a pair of spiked samples (MS/MSD) and three pairs of spiked blanks were analyzed with this group of samples. Each of these duplicate pairs demonstrated an acceptable level of measurement precision.

It is noted that a blind duplicate sample was included in this delivery group but was not identified.

Reported Analytes
Formal reports were provided for each sample. The data package also included total ion chromatograms and raw instrument printouts. Tentatively Identified Compounds (TIC) were not reported.

METALS

This group of samples was digested for mercury analysis on 12Oct15 and 14Oct15, and the digestates were analyzed on 14Oct15 and 15Oct15. Samples for ICP analysis were digested on 14Oct15 and analyzed on 15Oct15 and 19Oct15. The ASP and SW-846 holding time limitations were satisfied.

Calibrations
Calibration curves are constructed, using certified materials, to define the linear range of each analytical instrument. Beyond this range, measurements cannot be made with confidence. The calibration curve is immediately tested by analyzing an initial calibration verification standard (ICV). Continuing verifications (CCV) must bracket each group of up to ten samples. ICV and CCV recoveries must meet established criteria.

Each instrument calibration was immediately verified by the analysis of an ICV standard. Continuing calibration checks were made following each group of 10 samples. The calibration checks associated with this group of samples demonstrated acceptable levels of instrument performance and stability.

Low level calibration checks standards also bracketed the analysis of program samples. Each of these checks produced acceptable recoveries.

Blanks
Blanks are analyzed to evaluate various sources of sample contamination. Field blanks monitor sampling activities. Preparation blanks are carried through the digestion process with each group of samples to evaluate general laboratory technique. Calibration blanks are run periodically to verify instrument integrity. Samples are considered compromised by conditions causing contamination in any blank.

An initial blank (ICB) was analyzed following the calibration in each analytical sequence. Additional blanks were analyzed after every ten samples (CCB) and at the end of each sequence. Preparation blanks were digested and analyzed with this group of samples. Each laboratory prepared blank was free of targeted analyte contamination exceeding the laboratory's reporting limit.

Interference Check Sample (ICS)
ICS standards are analyzed at the beginning and end of each ICP analysis sequence to verify background and interelement correction factors. The recoveries of specified analytes are measured

in the presence of interfering concentrations of aluminum, calcium, magnesium and iron.

Interference check standards, ICSA and ICSAB, bracketed the analysis of program samples. The ICS performance associated with this group of samples satisfied the program acceptance criteria.

Predigestion Spikes
The recovery of spike concentrations added to samples prior to digestion and analysis demonstrates measurement bias caused by sample matrix effects. Predigestion spikes must be recovered within control limits of 75% - 125%.

RMW-7 was selected for matrix spiking. Each targeted metal was added to two aliquots of this sample. The recoveries reported for these additions demonstrated acceptable levels of measurement precision and accuracy.

A second pair of spiked blanks was prepared with a sample from an unrelated program. This MS/MSD pair was not considered.

Duplicates
Two aliquots of the same sample are processed separately through all aspects of sample preparation and analysis. The results produced by this pair of samples are compared as a measurement of precision. Poor precision may be indicative of sample non-homogeneity, method defects, or poor laboratory technique.

Although laboratory split duplicate samples were not prepared, the MS/MSD samples that have been previously addressed demonstrated an acceptable level of measurement precision.

Laboratory Control Standard
Laboratory control samples are prepared by adding analytes to clean sand or reagent water. Analyte concentrations are then determined without interferences caused by sample matrix effects.

Two pairs of mercury spiked blanks (LCS/LCSD) and an LCS/LCSD pair containing each targeted ICP metal were digested and analyzed with this delivery group. The recoveries reported from each of these LCS satisfied the program acceptance criteria.

Serial Dilution Sample
Possible matrix effects are verified by the process of serial dilutions. Samples are diluted 1:5 to reduce matrix contributions that might bias measurements. The original sample result, and the corrected concentration of the diluted sample are compared. Sample data is qualified if the original concentrations are not recovered within 10%. Analytes with initial concentrations below 50 times the reporting limit are not considered.

A serial dilution sample was not prepared with this group of samples.

SUMMARY OF QUALIFIED DATA

PHOTECH SITE

SAMPLED: October 2015

		CALIBRATE TCE	SPIKE BENZENE
RMW-5	(L793892-01)	1.0UJ	
RMW-6	(L793892-02)	1.0UJ	
RMW-8	(L793892-03)	1.0UJ	
RMW-9	(L793892-04)	1.0UJ	
BLIND DUP	(L793892-05)	1.0UJ	
RMW-7	(L793892-06)	1.0UJ	1.0UJ
RMW-4	(L793892-07)	1.0UJ	
WELL-7	(L793892-08)	1.0UJ	
RMW-3	(L793892-09)	7.05J	
WELL-9	(L793892-10)	1.0UJ	
RMW-2	(L793892-11)	1.0UJ	
RMW-1	(L793892-12)	1.0UJ	
WELL-4	(L793892-13)	1.0UJ	
EQUIP BLK	(L793892-14)	1.0UJ	
TRIP BLK	(L793892-16)	1.0UJ	

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	10/14/2015 08:49	WG821311

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	ND		10.0	1	10/15/2015 16:27	WG821543
Barium	82.7		5.00	1	10/15/2015 16:27	WG821543
Cadmium	ND		2.00	1	10/15/2015 16:27	WG821543
Chromium	ND		10.0	1	10/15/2015 16:27	WG821543
Lead	ND		5.00	1	10/15/2015 16:27	WG821543
Selenium	ND		10.0	1	10/15/2015 16:27	WG821543
Silver	ND		5.00	1	10/15/2015 16:27	WG821543

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	10/16/2015 15:08	WG822246
Benzene	ND		1.00	1	10/16/2015 15:08	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 15:08	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 15:08	WG822246
Bromoform	ND		1.00	1	10/16/2015 15:08	WG822246
Bromomethane	ND		5.00	1	10/16/2015 15:08	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 15:08	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 15:08	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 15:08	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 15:08	WG822246
Chloroethane	ND		5.00	1	10/16/2015 15:08	WG822246
Chloroform	ND		5.00	1	10/16/2015 15:08	WG822246
Chloromethane	ND		2.50	1	10/16/2015 15:08	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 15:08	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 15:08	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 15:08	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 15:08	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 15:08	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 15:08	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 15:08	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 15:08	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 15:08	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 15:08	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 15:08	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 15:08	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 15:08	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 15:08	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 15:08	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 15:08	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 15:08	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 15:08	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 15:08	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 15:08	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 15:08	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 15:08	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 15:08	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 15:08	WG822246
Styrene	ND		1.00	1	10/16/2015 15:08	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 15:08	WG822246

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Tetrachloroethene	ND		1.00	1	10/16/2015 15:08	WG822246
Toluene	ND		5.00	1	10/16/2015 15:08	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 15:08	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 15:08	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 15:08	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 15:08	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 15:08	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 15:08	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 15:08	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 15:08	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 15:08	WG822246
(S) Toluene-d8	*102*		*90.0-115*		*10/16/2015 15:08*	WG822246
(S) Dibromofluoromethane	*96.8*		*79.0-121*		*10/16/2015 15:08*	WG822246
(S) a,a,a-Trifluorotoluene	*103*		*90.4-116*		*10/16/2015 15:08*	WG822246
(S) 4-Bromofluorobenzene	*103*		*80.1-120*		*10/16/2015 15:08*	WG822246

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	10/14/2015 08:52	WG821311

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	ND		10.0	1	10/15/2015 16:30	WG821543
Barium	77.4		5.00	1	10/15/2015 16:30	WG821543
Cadmium	ND		2.00	1	10/15/2015 16:30	WG821543
Chromium	ND		10.0	1	10/15/2015 16:30	WG821543
Lead	6.77		5.00	1	10/15/2015 16:30	WG821543
Selenium	ND		10.0	1	10/15/2015 16:30	WG821543
Silver	ND		5.00	1	10/15/2015 16:30	WG821543

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	10/16/2015 15:26	WG822246
Benzene	ND		1.00	1	10/16/2015 15:26	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 15:26	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 15:26	WG822246
Bromoform	ND		1.00	1	10/16/2015 15:26	WG822246
Bromomethane	ND		5.00	1	10/16/2015 15:26	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 15:26	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 15:26	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 15:26	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 15:26	WG822246
Chloroethane	ND		5.00	1	10/16/2015 15:26	WG822246
Chloroform	ND		5.00	1	10/16/2015 15:26	WG822246
Chloromethane	ND		2.50	1	10/16/2015 15:26	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 15:26	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 15:26	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 15:26	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 15:26	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 15:26	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 15:26	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 15:26	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 15:26	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 15:26	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 15:26	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 15:26	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 15:26	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 15:26	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 15:26	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 15:26	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 15:26	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 15:26	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 15:26	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 15:26	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 15:26	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 15:26	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 15:26	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 15:26	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 15:26	WG822246
Styrene	ND		1.00	1	10/16/2015 15:26	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 15:26	WG822246

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Tetrachloroethene	ND		1.00	1	10/16/2015 15:26	WG822246
Toluene	ND		5.00	1	10/16/2015 15:26	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 15:26	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 15:26	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 15:26	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 15:26	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 15:26	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 15:26	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 15:26	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 15:26	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 15:26	WG822246
(S) Toluene-d8	*103*		*90.0-115*		*10/16/2015 15:26*	WG822246
(S) Dibromofluoromethane	*95.4*		*79.0-121*		*10/16/2015 15:26*	WG822246
(S) a,a,a-Trifluorotoluene	*106*		*90.4-116*		*10/16/2015 15:26*	WG822246
(S) 4-Bromofluorobenzene	*108*		*80.1-120*		*10/16/2015 15:26*	WG822246

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	10/14/2015 08:54	WG821311

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	ND		10.0	1	10/15/2015 16:33	WG821543
Barium	102		5.00	1	10/15/2015 16:33	WG821543
Cadmium	ND		2.00	1	10/15/2015 16:33	WG821543
Chromium	ND		10.0	1	10/15/2015 16:33	WG821543
Lead	ND		5.00	1	10/15/2015 16:33	WG821543
Selenium	ND		10.0	1	10/15/2015 16:33	WG821543
Silver	ND		5.00	1	10/15/2015 16:33	WG821543

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	10/16/2015 15:44	WG822246
Benzene	ND		1.00	1	10/16/2015 15:44	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 15:44	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 15:44	WG822246
Bromoform	ND		1.00	1	10/16/2015 15:44	WG822246
Bromomethane	ND		5.00	1	10/16/2015 15:44	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 15:44	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 15:44	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 15:44	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 15:44	WG822246
Chloroethane	ND		5.00	1	10/16/2015 15:44	WG822246
Chloroform	ND		5.00	1	10/16/2015 15:44	WG822246
Chloromethane	ND		2.50	1	10/16/2015 15:44	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 15:44	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 15:44	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 15:44	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 15:44	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 15:44	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 15:44	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 15:44	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 15:44	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 15:44	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 15:44	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 15:44	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 15:44	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 15:44	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 15:44	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 15:44	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 15:44	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 15:44	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 15:44	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 15:44	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 15:44	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 15:44	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 15:44	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 15:44	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 15:44	WG822246
Styrene	ND		1.00	1	10/16/2015 15:44	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 15:44	WG822246

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Tetrachloroethene	ND		1.00	1	10/16/2015 15:44	WG822246
Toluene	ND		5.00	1	10/16/2015 15:44	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 15:44	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 15:44	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 15:44	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 15:44	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 15:44	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 15:44	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 15:44	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 15:44	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 15:44	WG822246
(S) Toluene-d8	*105*		*90.0-115*		*10/16/2015 15:44*	WG822246
(S) Dibromofluoromethane	*95.1*		*79.0-121*		*10/16/2015 15:44*	WG822246
(S) a,a,a-Trifluorotoluene	*110*		*90.4-116*		*10/16/2015 15:44*	WG822246
(S) 4-Bromofluorobenzene	*106*		*80.1-120*		*10/16/2015 15:44*	WG822246

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	10/14/2015 08:56	WG821311

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	ND		10.0	1	10/15/2015 16:42	WG821543
Barium	97.4		5.00	1	10/15/2015 16:42	WG821543
Cadmium	ND		2.00	1	10/15/2015 16:42	WG821543
Chromium	ND		10.0	1	10/15/2015 16:42	WG821543
Lead	ND		5.00	1	10/15/2015 16:42	WG821543
Selenium	ND		10.0	1	10/15/2015 16:42	WG821543
Silver	ND		5.00	1	10/15/2015 16:42	WG821543

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	10/16/2015 16:02	WG822246
Benzene	ND		1.00	1	10/16/2015 16:02	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 16:02	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 16:02	WG822246
Bromoform	ND		1.00	1	10/16/2015 16:02	WG822246
Bromomethane	ND		5.00	1	10/16/2015 16:02	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 16:02	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 16:02	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 16:02	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 16:02	WG822246
Chloroethane	ND		5.00	1	10/16/2015 16:02	WG822246
Chloroform	ND		5.00	1	10/16/2015 16:02	WG822246
Chloromethane	ND		2.50	1	10/16/2015 16:02	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 16:02	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 16:02	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 16:02	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 16:02	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 16:02	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 16:02	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 16:02	WG822246
1,1-Dichloroethane	12.3		1.00	1	10/16/2015 16:02	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 16:02	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 16:02	WG822246
cis-1,2-Dichloroethene	7.97		1.00	1	10/16/2015 16:02	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 16:02	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 16:02	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 16:02	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 16:02	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 16:02	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 16:02	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 16:02	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 16:02	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 16:02	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 16:02	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 16:02	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 16:02	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 16:02	WG822246
Styrene	ND		1.00	1	10/16/2015 16:02	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 16:02	WG822246

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Tetrachloroethene	ND		1.00	1	10/16/2015 16:02	WG822246
Toluene	ND		5.00	1	10/16/2015 16:02	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 16:02	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 16:02	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 16:02	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 16:02	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 16:02	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 16:02	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 16:02	WG822246
Vinyl chloride	98.4		1.00	1	10/16/2015 16:02	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 16:02	WG822246
(S) Toluene-d8	*104*		*90.0-115*		*10/16/2015 16:02*	WG822246
(S) Dibromofluoromethane	*99.8*		*79.0-121*		*10/16/2015 16:02*	WG822246
(S) a,a,a-Trifluorotoluene	*107*		*90.4-116*		*10/16/2015 16:02*	WG822246
(S) 4-Bromofluorobenzene	*106*		*80.1-120*		*10/16/2015 16:02*	WG822246

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	10/14/2015 08:58	WG821311

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	ND		10.0	1	10/15/2015 16:45	WG821543
Barium	101		5.00	1	10/15/2015 16:45	WG821543
Cadmium	ND		2.00	1	10/15/2015 16:45	WG821543
Chromium	ND		10.0	1	10/15/2015 16:45	WG821543
Lead	ND		5.00	1	10/15/2015 16:45	WG821543
Selenium	ND		10.0	1	10/15/2015 16:45	WG821543
Silver	ND		5.00	1	10/15/2015 16:45	WG821543

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	10/16/2015 16:21	WG822246
Benzene	ND		1.00	1	10/16/2015 16:21	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 16:21	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 16:21	WG822246
Bromoform	ND		1.00	1	10/16/2015 16:21	WG822246
Bromomethane	ND		5.00	1	10/16/2015 16:21	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 16:21	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 16:21	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 16:21	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 16:21	WG822246
Chloroethane	ND		5.00	1	10/16/2015 16:21	WG822246
Chloroform	ND		5.00	1	10/16/2015 16:21	WG822246
Chloromethane	ND		2.50	1	10/16/2015 16:21	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 16:21	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 16:21	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 16:21	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 16:21	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 16:21	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 16:21	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 16:21	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 16:21	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 16:21	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 16:21	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 16:21	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 16:21	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 16:21	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 16:21	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 16:21	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 16:21	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 16:21	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 16:21	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 16:21	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 16:21	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 16:21	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 16:21	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 16:21	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 16:21	WG822246
Styrene	ND		1.00	1	10/16/2015 16:21	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 16:21	WG822246

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
	ug/l		ug/l			
Tetrachloroethene	ND		1.00	1	10/16/2015 16:21	WG822246
Toluene	ND		5.00	1	10/16/2015 16:21	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 16:21	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 16:21	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 16:21	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 16:21	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 16:21	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 16:21	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 16:21	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 16:21	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 16:21	WG822246
(S) Toluene-d8	*103*		*90.0-115*		*10/16/2015 16:21*	WG822246
(S) Dibromofluoromethane	*99.0*		*79.0-121*		*10/16/2015 16:21*	WG822246
(S) a,a,a-Trifluorotoluene	*105*		*90.4-116*		*10/16/2015 16:21*	WG822246
(S) 4-Bromofluorobenzene	*108*		*80.1-120*		*10/16/2015 16:21*	WG822246

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND	J3	0.200	1	10/15/2015 09:35	WG821837

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	ND		10.0	1	10/15/2015 16:15	WG821543
Barium	56.3		5.00	1	10/15/2015 16:15	WG821543
Cadmium	ND		2.00	1	10/15/2015 16:15	WG821543
Chromium	ND		10.0	1	10/15/2015 16:15	WG821543
Lead	ND		5.00	1	10/15/2015 16:15	WG821543
Selenium	ND		10.0	1	10/15/2015 16:15	WG821543
Silver	ND		5.00	1	10/15/2015 16:15	WG821543

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	10/16/2015 13:36	WG822246
Benzene	ND	UJ	1.00	1	10/16/2015 13:36	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 13:36	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 13:36	WG822246
Bromoform	ND		1.00	1	10/16/2015 13:36	WG822246
Bromomethane	ND		5.00	1	10/16/2015 13:36	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 13:36	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 13:36	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 13:36	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 13:36	WG822246
Chloroethane	ND		5.00	1	10/16/2015 13:36	WG822246
Chloroform	ND		5.00	1	10/16/2015 13:36	WG822246
Chloromethane	ND		2.50	1	10/16/2015 13:36	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 13:36	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 13:36	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 13:36	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 13:36	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 13:36	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 13:36	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 13:36	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 13:36	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 13:36	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 13:36	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 13:36	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 13:36	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 13:36	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 13:36	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 13:36	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 13:36	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 13:36	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 13:36	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 13:36	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 13:36	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 13:36	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 13:36	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 13:36	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 13:36	WG822246
Styrene	ND		1.00	1	10/16/2015 13:36	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 13:36	WG822246

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Tetrachloroethene	ND		1.00	1	10/16/2015 13:36	WG822246
Toluene	ND		5.00	1	10/16/2015 13:36	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 13:36	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 13:36	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 13:36	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 13:36	WG822246
Trichloroethene	~~ND~~	UJ	1.00	1	10/16/2015 13:36	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 13:36	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 13:36	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 13:36	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 13:36	WG822246
(S) Toluene-d8	*106*		*90.0-115*		*10/16/2015 13:36*	WG822246
(S) Dibromofluoromethane	*102*		*79.0-121*		*10/16/2015 13:36*	WG822246
(S) a,a,a-Trifluorotoluene	*107*		*90.4-116*		*10/16/2015 13:36*	WG822246
(S) 4-Bromofluorobenzene	*104*		*80.1-120*		*10/16/2015 13:36*	WG822246

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	10/14/2015 09:05	WG821311

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	21.9		10.0	1	10/19/2015 11:05	WG821543
Barium	8.91		5.00	1	10/19/2015 11:05	WG821543
Cadmium	ND		2.00	1	10/19/2015 11:05	WG821543
Chromium	ND		10.0	1	10/19/2015 11:05	WG821543
Lead	8.03		5.00	1	10/19/2015 11:05	WG821543
Selenium	ND		10.0	1	10/19/2015 11:05	WG821543
Silver	ND		5.00	1	10/19/2015 11:05	WG821543

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	10/16/2015 16:39	WG822246
Benzene	ND		1.00	1	10/16/2015 16:39	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 16:39	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 16:39	WG822246
Bromoform	ND		1.00	1	10/16/2015 16:39	WG822246
Bromomethane	ND		5.00	1	10/16/2015 16:39	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 16:39	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 16:39	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 16:39	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 16:39	WG822246
Chloroethane	ND		5.00	1	10/16/2015 16:39	WG822246
Chloroform	ND		5.00	1	10/16/2015 16:39	WG822246
Chloromethane	ND		2.50	1	10/16/2015 16:39	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 16:39	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 16:39	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 16:39	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 16:39	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 16:39	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 16:39	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 16:39	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 16:39	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 16:39	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 16:39	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 16:39	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 16:39	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 16:39	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 16:39	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 16:39	WG822246
Ethylbenzene	1.68		1.00	1	10/16/2015 16:39	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 16:39	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 16:39	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 16:39	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 16:39	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 16:39	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 16:39	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 16:39	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 16:39	WG822246
Styrene	ND		1.00	1	10/16/2015 16:39	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 16:39	WG822246

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Tetrachloroethene	ND		1.00	1	10/16/2015 16:39	WG822246
Toluene	ND		5.00	1	10/16/2015 16:39	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 16:39	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 16:39	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 16:39	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 16:39	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 16:39	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 16:39	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 16:39	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 16:39	WG822246
Xylenes, Total	5.98		3.00	1	10/16/2015 16:39	WG822246
(S) Toluene-d8	*107*		*90.0-115*		*10/16/2015 16:39*	WG822246
(S) Dibromofluoromethane	*99.3*		*79.0-121*		*10/16/2015 16:39*	WG822246
(S) a,a,a-Trifluorotoluene	*111*		*90.4-116*		*10/16/2015 16:39*	WG822246
(S) 4-Bromofluorobenzene	*108*		*80.1-120*		*10/16/2015 16:39*	WG822246

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	10/14/2015 09:07	WG821311

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		10.0	1	10/15/2015 16:51	WG821543
Barium	78.2		5.00	1	10/15/2015 16:51	WG821543
Cadmium	ND		2.00	1	10/15/2015 16:51	WG821543
Chromium	ND		10.0	1	10/15/2015 16:51	WG821543
Lead	15.7		5.00	1	10/15/2015 16:51	WG821543
Selenium	ND		10.0	1	10/15/2015 16:51	WG821543
Silver	ND		5.00	1	10/15/2015 16:51	WG821543

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	10/16/2015 16:57	WG822246
Benzene	ND		1.00	1	10/16/2015 16:57	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 16:57	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 16:57	WG822246
Bromoform	ND		1.00	1	10/16/2015 16:57	WG822246
Bromomethane	ND		5.00	1	10/16/2015 16:57	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 16:57	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 16:57	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 16:57	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 16:57	WG822246
Chloroethane	ND		5.00	1	10/16/2015 16:57	WG822246
Chloroform	ND		5.00	1	10/16/2015 16:57	WG822246
Chloromethane	ND		2.50	1	10/16/2015 16:57	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 16:57	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 16:57	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 16:57	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 16:57	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 16:57	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 16:57	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 16:57	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 16:57	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 16:57	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 16:57	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 16:57	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 16:57	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 16:57	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 16:57	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 16:57	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 16:57	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 16:57	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 16:57	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 16:57	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 16:57	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 16:57	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 16:57	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 16:57	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 16:57	WG822246
Styrene	ND		1.00	1	10/16/2015 16:57	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 16:57	WG822246

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Tetrachloroethene	ND		1.00	1	10/16/2015 16:57	WG822246
Toluene	ND		5.00	1	10/16/2015 16:57	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 16:57	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 16:57	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 16:57	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 16:57	WG822246
Trichloroethene	ND	UJ	1.00	1	10/16/2015 16:57	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 16:57	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 16:57	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 16:57	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 16:57	WG822246
(S) Toluene-d8	*101*		*90.0-115*		*10/16/2015 16:57*	WG822246
(S) Dibromofluoromethane	*95.4*		*79.0-121*		*10/16/2015 16:57*	WG822246
(S) a,a,a-Trifluorotoluene	*106*		*90.4-116*		*10/16/2015 16:57*	WG822246
(S) 4-Bromofluorobenzene	*107*		*80.1-120*		*10/16/2015 16:57*	WG822246

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	10/14/2015 09:09	WG821311

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	ND		10.0	1	10/15/2015 16:54	WG821543
Barium	60.5		5.00	1	10/15/2015 16:54	WG821543
Cadmium	ND		2.00	1	10/15/2015 16:54	WG821543
Chromium	ND		10.0	1	10/15/2015 16:54	WG821543
Lead	ND		5.00	1	10/15/2015 16:54	WG821543
Selenium	ND		10.0	1	10/15/2015 16:54	WG821543
Silver	ND		5.00	1	10/15/2015 16:54	WG821543

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	10/19/2015 02:41	WG822800
Benzene	ND		1.00	1	10/19/2015 02:41	WG822800
Bromochloromethane	ND		1.00	1	10/19/2015 02:41	WG822800
Bromodichloromethane	ND		1.00	1	10/19/2015 02:41	WG822800
Bromoform	ND		1.00	1	10/19/2015 02:41	WG822800
Bromomethane	ND		5.00	1	10/19/2015 02:41	WG822800
Carbon disulfide	ND		1.00	1	10/19/2015 02:41	WG822800
Carbon tetrachloride	ND		1.00	1	10/19/2015 02:41	WG822800
Chlorobenzene	ND		1.00	1	10/19/2015 02:41	WG822800
Chlorodibromomethane	ND		1.00	1	10/19/2015 02:41	WG822800
Chloroethane	ND		5.00	1	10/19/2015 15:19	WG822564
Chloroform	ND		5.00	1	10/19/2015 02:41	WG822800
Chloromethane	ND		2.50	1	10/19/2015 02:41	WG822800
Cyclohexane	ND		1.00	1	10/19/2015 02:41	WG822800
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/19/2015 02:41	WG822800
1,2-Dibromoethane	ND		1.00	1	10/19/2015 02:41	WG822800
1,2-Dichlorobenzene	ND		1.00	1	10/19/2015 02:41	WG822800
1,3-Dichlorobenzene	ND		1.00	1	10/19/2015 02:41	WG822800
1,4-Dichlorobenzene	ND		1.00	1	10/19/2015 02:41	WG822800
Dichlorodifluoromethane	ND		5.00	1	10/19/2015 02:41	WG822800
1,1-Dichloroethane	ND		1.00	1	10/19/2015 02:41	WG822800
1,2-Dichloroethane	ND		1.00	1	10/19/2015 02:41	WG822800
1,1-Dichloroethene	ND		1.00	1	10/19/2015 02:41	WG822800
cis-1,2-Dichloroethene	ND		1.00	1	10/19/2015 02:41	WG822800
trans-1,2-Dichloroethene	ND		1.00	1	10/19/2015 02:41	WG822800
1,2-Dichloropropane	ND		1.00	1	10/19/2015 02:41	WG822800
cis-1,3-Dichloropropene	ND		1.00	1	10/19/2015 02:41	WG822800
trans-1,3-Dichloropropene	ND		1.00	1	10/19/2015 02:41	WG822800
Ethylbenzene	ND		1.00	1	10/19/2015 02:41	WG822800
2-Hexanone	ND		10.0	1	10/19/2015 02:41	WG822800
Isopropylbenzene	ND		1.00	1	10/19/2015 02:41	WG822800
2-Butanone (MEK)	ND		10.0	1	10/19/2015 02:41	WG822800
Methyl Acetate	ND		20.0	1	10/19/2015 02:41	WG822800
Methyl Cyclohexane	ND		1.00	1	10/19/2015 02:41	WG822800
Methylene Chloride	ND		5.00	1	10/19/2015 02:41	WG822800
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/19/2015 02:41	WG822800
Methyl tert-butyl ether	ND		1.00	1	10/19/2015 02:41	WG822800
Styrene	ND		1.00	1	10/19/2015 02:41	WG822800
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/19/2015 02:41	WG822800

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Tetrachloroethene	ND		1.00	1	10/19/2015 02:41	WG822800
Toluene	ND		5.00	1	10/19/2015 02:41	WG822800
1,2,3-Trichlorobenzene	ND		1.00	1	10/19/2015 02:41	WG822800
1,2,4-Trichlorobenzene	ND		1.00	1	10/19/2015 02:41	WG822800
1,1,1-Trichloroethane	ND		1.00	1	10/19/2015 02:41	WG822800
1,1,2-Trichloroethane	ND		1.00	1	10/19/2015 02:41	WG822800
Trichloroethene	7.05	J	1.00	1	10/19/2015 02:41	WG822800
Trichlorofluoromethane	ND		5.00	1	10/19/2015 02:41	WG822800
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/19/2015 02:41	WG822800
Vinyl chloride	ND		1.00	1	10/19/2015 02:41	WG822800
Xylenes, Total	ND		3.00	1	10/19/2015 02:41	WG822800
(S) Toluene-d8	*106*		*90.0-115*		*10/19/2015 02:41*	WG822800
(S) Dibromofluoromethane	*99.2*		*79.0-121*		*10/19/2015 02:41*	WG822800
(S) a,a,a-Trifluorotoluene	*107*		*90.4-116*		*10/19/2015 02:41*	WG822800
(S) 4-Bromofluorobenzene	*102*		*80.1-120*		*10/19/2015 02:41*	WG822800

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	10/14/2015 09:12	WG821311

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	ND		10.0	1	10/15/2015 16:57	WG821543
Barium	51.9		5.00	1	10/15/2015 16:57	WG821543
Cadmium	ND		2.00	1	10/15/2015 16:57	WG821543
Chromium	ND		10.0	1	10/15/2015 16:57	WG821543
Lead	ND		5.00	1	10/15/2015 16:57	WG821543
Selenium	ND		10.0	1	10/15/2015 16:57	WG821543
Silver	ND		5.00	1	10/15/2015 16:57	WG821543

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	10/16/2015 17:34	WG822246
Benzene	ND		1.00	1	10/16/2015 17:34	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 17:34	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 17:34	WG822246
Bromoform	ND		1.00	1	10/16/2015 17:34	WG822246
Bromomethane	ND		5.00	1	10/16/2015 17:34	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 17:34	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 17:34	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 17:34	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 17:34	WG822246
Chloroethane	ND		5.00	1	10/16/2015 17:34	WG822246
Chloroform	ND		5.00	1	10/16/2015 17:34	WG822246
Chloromethane	ND		2.50	1	10/16/2015 17:34	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 17:34	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 17:34	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 17:34	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 17:34	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 17:34	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 17:34	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 17:34	WG822246
1,1-Dichloroethane	7.55		1.00	1	10/16/2015 17:34	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 17:34	WG822246
1,1-Dichloroethene	2.19		1.00	1	10/16/2015 17:34	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 17:34	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 17:34	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 17:34	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 17:34	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 17:34	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 17:34	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 17:34	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 17:34	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 17:34	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 17:34	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 17:34	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 17:34	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 17:34	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 17:34	WG822246
Styrene	ND		1.00	1	10/16/2015 17:34	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 17:34	WG822246

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Tetrachloroethene	ND		1.00	1	10/16/2015 17:34	WG822246
Toluene	ND		5.00	1	10/16/2015 17:34	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 17:34	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 17:34	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 17:34	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 17:34	WG822246
Trichloroethene	ND	UJ	1.00	1	10/16/2015 17:34	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 17:34	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 17:34	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 17:34	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 17:34	WG822246
(S) Toluene-d8	*103*		*90.0-115*		*10/16/2015 17:34*	WG822246
(S) Dibromofluoromethane	*97.1*		*79.0-121*		*10/16/2015 17:34*	WG822246
(S) a,a,a-Trifluorotoluene	*106*		*90.4-116*		*10/16/2015 17:34*	WG822246
(S) 4-Bromofluorobenzene	*109*		*80.1-120*		*10/16/2015 17:34*	WG822246

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	10/14/2015 09:14	WG821311

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		10.0	1	10/15/2015 17:01	WG821543
Barium	44.8		5.00	1	10/15/2015 17:01	WG821543
Cadmium	ND		2.00	1	10/15/2015 17:01	WG821543
Chromium	ND		10.0	1	10/15/2015 17:01	WG821543
Lead	ND		5.00	1	10/15/2015 17:01	WG821543
Selenium	ND		10.0	1	10/15/2015 17:01	WG821543
Silver	ND		5.00	1	10/15/2015 17:01	WG821543

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	10/16/2015 17:52	WG822246
Benzene	ND		1.00	1	10/16/2015 17:52	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 17:52	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 17:52	WG822246
Bromoform	ND		1.00	1	10/16/2015 17:52	WG822246
Bromomethane	ND		5.00	1	10/16/2015 17:52	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 17:52	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 17:52	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 17:52	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 17:52	WG822246
Chloroethane	ND		5.00	1	10/16/2015 17:52	WG822246
Chloroform	ND		5.00	1	10/16/2015 17:52	WG822246
Chloromethane	ND		2.50	1	10/16/2015 17:52	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 17:52	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 17:52	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 17:52	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 17:52	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 17:52	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 17:52	WG822246
Dichlorodifluoromethane	22.8		5.00	1	10/16/2015 17:52	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 17:52	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 17:52	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 17:52	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 17:52	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 17:52	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 17:52	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 17:52	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 17:52	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 17:52	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 17:52	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 17:52	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 17:52	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 17:52	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 17:52	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 17:52	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 17:52	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 17:52	WG822246
Styrene	ND		1.00	1	10/16/2015 17:52	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 17:52	WG822246

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Tetrachloroethene	ND		1.00	1	10/16/2015 17:52	WG822246
Toluene	ND		5.00	1	10/16/2015 17:52	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 17:52	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 17:52	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 17:52	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 17:52	WG822246
Trichloroethene	~~ND~~ UJ		1.00	1	10/16/2015 17:52	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 17:52	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 17:52	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 17:52	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 17:52	WG822246
(S) Toluene-d8	*106*		*90.0-115*		*10/16/2015 17:52*	WG822246
(S) Dibromofluoromethane	*96.1*		*79.0-121*		*10/16/2015 17:52*	WG822246
(S) a,a,a-Trifluorotoluene	*107*		*90.4-116*		*10/16/2015 17:52*	WG822246
(S) 4-Bromofluorobenzene	*107*		*80.1-120*		*10/16/2015 17:52*	WG822246

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	10/14/2015 09:16	WG821311

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	ND		10.0	1	10/15/2015 17:04	WG821543
Barium	110		5.00	1	10/15/2015 17:04	WG821543
Cadmium	ND		2.00	1	10/15/2015 17:04	WG821543
Chromium	ND		10.0	1	10/15/2015 17:04	WG821543
Lead	ND		5.00	1	10/15/2015 17:04	WG821543
Selenium	ND		10.0	1	10/15/2015 17:04	WG821543
Silver	ND		5.00	1	10/15/2015 17:04	WG821543

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	10/16/2015 18:10	WG822246
Benzene	ND		1.00	1	10/16/2015 18:10	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 18:10	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 18:10	WG822246
Bromoform	ND		1.00	1	10/16/2015 18:10	WG822246
Bromomethane	ND		5.00	1	10/16/2015 18:10	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 18:10	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 18:10	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 18:10	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 18:10	WG822246
Chloroethane	ND		5.00	1	10/16/2015 18:10	WG822246
Chloroform	ND		5.00	1	10/16/2015 18:10	WG822246
Chloromethane	ND		2.50	1	10/16/2015 18:10	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 18:10	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 18:10	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 18:10	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 18:10	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 18:10	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 18:10	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 18:10	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 18:10	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 18:10	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 18:10	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 18:10	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 18:10	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 18:10	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 18:10	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 18:10	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 18:10	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 18:10	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 18:10	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 18:10	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 18:10	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 18:10	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 18:10	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 18:10	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 18:10	WG822246
Styrene	ND		1.00	1	10/16/2015 18:10	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 18:10	WG822246

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Tetrachloroethene	ND		1.00	1	10/16/2015 18:10	WG822246
Toluene	ND		5.00	1	10/16/2015 18:10	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 18:10	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 18:10	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 18:10	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 18:10	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 18:10	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 18:10	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 18:10	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 18:10	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 18:10	WG822246
(S) Toluene-d8	*99.9*		*90.0-115*		*10/16/2015 18:10*	WG822246
(S) Dibromofluoromethane	*98.1*		*79.0-121*		*10/16/2015 18:10*	WG822246
(S) a,a,a-Trifluorotoluene	*105*		*90.4-116*		*10/16/2015 18:10*	WG822246
(S) 4-Bromofluorobenzene	*104*		*80.1-120*		*10/16/2015 18:10*	WG822246

Mercury by Method 7470A

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Mercury	ND		0.200	1	10/14/2015 09:18	WG821311

Metals (ICP) by Method 6010C

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Arsenic	ND		10.0	1	10/15/2015 17:07	WG821543
Barium	129		5.00	1	10/15/2015 17:07	WG821543
Cadmium	ND		2.00	1	10/15/2015 17:07	WG821543
Chromium	ND		10.0	1	10/15/2015 17:07	WG821543
Lead	ND		5.00	1	10/15/2015 17:07	WG821543
Selenium	ND		10.0	1	10/15/2015 17:07	WG821543
Silver	ND		5.00	1	10/15/2015 17:07	WG821543

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	10/16/2015 18:28	WG822246
Benzene	ND		1.00	1	10/16/2015 18:28	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 18:28	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 18:28	WG822246
Bromoform	ND		1.00	1	10/16/2015 18:28	WG822246
Bromomethane	ND		5.00	1	10/16/2015 18:28	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 18:28	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 18:28	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 18:28	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 18:28	WG822246
Chloroethane	ND		5.00	1	10/16/2015 18:28	WG822246
Chloroform	ND		5.00	1	10/16/2015 18:28	WG822246
Chloromethane	ND		2.50	1	10/16/2015 18:28	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 18:28	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 18:28	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 18:28	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 18:28	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 18:28	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 18:28	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 18:28	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 18:28	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 18:28	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 18:28	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 18:28	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 18:28	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 18:28	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 18:28	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 18:28	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 18:28	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 18:28	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 18:28	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 18:28	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 18:28	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 18:28	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 18:28	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 18:28	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 18:28	WG822246
Styrene	ND		1.00	1	10/16/2015 18:28	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 18:28	WG822246

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Tetrachloroethene	ND		1.00	1	10/16/2015 18:28	WG822246
Toluene	ND		5.00	1	10/16/2015 18:28	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 18:28	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 18:28	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 18:28	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 18:28	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 18:28	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 18:28	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 18:28	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 18:28	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 18:28	WG822246
(S) Toluene-d8	*104*		*90.0-115*		*10/16/2015 18:28*	WG822246
(S) Dibromofluoromethane	*94.4*		*79.0-121*		*10/16/2015 18:28*	WG822246
(S) a,a,a-Trifluorotoluene	*104*		*90.4-116*		*10/16/2015 18:28*	WG822246
(S) 4-Bromofluorobenzene	*106*		*80.1-120*		*10/16/2015 18:28*	WG822246

Mercury by Method 7470A

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Mercury	ND		0.200	1	10/14/2015 09:20	WG821311

Metals (ICP) by Method 6010C

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Arsenic	ND		10.0	1	10/15/2015 17:10	WG821543
Barium	ND		5.00	1	10/15/2015 17:10	WG821543
Cadmium	ND		2.00	1	10/15/2015 17:10	WG821543
Chromium	ND		10.0	1	10/15/2015 17:10	WG821543
Lead	ND		5.00	1	10/15/2015 17:10	WG821543
Selenium	ND		10.0	1	10/15/2015 17:10	WG821543
Silver	ND		5.00	1	10/15/2015 17:10	WG821543

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	10/16/2015 13:00	WG822246
Benzene	ND		1.00	1	10/16/2015 13:00	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 13:00	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 13:00	WG822246
Bromoform	ND		1.00	1	10/16/2015 13:00	WG822246
Bromomethane	ND		5.00	1	10/16/2015 13:00	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 13:00	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 13:00	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 13:00	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 13:00	WG822246
Chloroethane	ND		5.00	1	10/16/2015 13:00	WG822246
Chloroform	ND		5.00	1	10/16/2015 13:00	WG822246
Chloromethane	ND		2.50	1	10/16/2015 13:00	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 13:00	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 13:00	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 13:00	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 13:00	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 13:00	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 13:00	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 13:00	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 13:00	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 13:00	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 13:00	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 13:00	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 13:00	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 13:00	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 13:00	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 13:00	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 13:00	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 13:00	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 13:00	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 13:00	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 13:00	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 13:00	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 13:00	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 13:00	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 13:00	WG822246
Styrene	ND		1.00	1	10/16/2015 13:00	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 13:00	WG822246

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Tetrachloroethene	ND		1.00	1	10/16/2015 13:00	WG822246
Toluene	ND		5.00	1	10/16/2015 13:00	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 13:00	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 13:00	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 13:00	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 13:00	WG822246
Trichloroethene	ND		1.00	1	10/16/2015 13:00	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 13:00	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 13:00	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 13:00	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 13:00	WG822246
(S) Toluene-d8	*103*		*90.0-115*		*10/16/2015 13:00*	WG822246
(S) Dibromofluoromethane	*94.9*		*79.0-121*		*10/16/2015 13:00*	WG822246
(S) a,a,a-Trifluorotoluene	*106*		*90.4-116*		*10/16/2015 13:00*	WG822246
(S) 4-Bromofluorobenzene	*107*		*80.1-120*		*10/16/2015 13:00*	WG822246

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	10/16/2015 13:18	WG822246
Benzene	ND		1.00	1	10/16/2015 13:18	WG822246
Bromochloromethane	ND		1.00	1	10/16/2015 13:18	WG822246
Bromodichloromethane	ND		1.00	1	10/16/2015 13:18	WG822246
Bromoform	ND		1.00	1	10/16/2015 13:18	WG822246
Bromomethane	ND		5.00	1	10/16/2015 13:18	WG822246
Carbon disulfide	ND		1.00	1	10/16/2015 13:18	WG822246
Carbon tetrachloride	ND		1.00	1	10/16/2015 13:18	WG822246
Chlorobenzene	ND		1.00	1	10/16/2015 13:18	WG822246
Chlorodibromomethane	ND		1.00	1	10/16/2015 13:18	WG822246
Chloroethane	ND		5.00	1	10/16/2015 13:18	WG822246
Chloroform	ND		5.00	1	10/16/2015 13:18	WG822246
Chloromethane	ND		2.50	1	10/16/2015 13:18	WG822246
Cyclohexane	ND		1.00	1	10/16/2015 13:18	WG822246
1,2-Dibromo-3-Chloropropane	ND		5.00	1	10/16/2015 13:18	WG822246
1,2-Dibromoethane	ND		1.00	1	10/16/2015 13:18	WG822246
1,2-Dichlorobenzene	ND		1.00	1	10/16/2015 13:18	WG822246
1,3-Dichlorobenzene	ND		1.00	1	10/16/2015 13:18	WG822246
1,4-Dichlorobenzene	ND		1.00	1	10/16/2015 13:18	WG822246
Dichlorodifluoromethane	ND		5.00	1	10/16/2015 13:18	WG822246
1,1-Dichloroethane	ND		1.00	1	10/16/2015 13:18	WG822246
1,2-Dichloroethane	ND		1.00	1	10/16/2015 13:18	WG822246
1,1-Dichloroethene	ND		1.00	1	10/16/2015 13:18	WG822246
cis-1,2-Dichloroethene	ND		1.00	1	10/16/2015 13:18	WG822246
trans-1,2-Dichloroethene	ND		1.00	1	10/16/2015 13:18	WG822246
1,2-Dichloropropane	ND		1.00	1	10/16/2015 13:18	WG822246
cis-1,3-Dichloropropene	ND		1.00	1	10/16/2015 13:18	WG822246
trans-1,3-Dichloropropene	ND		1.00	1	10/16/2015 13:18	WG822246
Ethylbenzene	ND		1.00	1	10/16/2015 13:18	WG822246
2-Hexanone	ND		10.0	1	10/16/2015 13:18	WG822246
Isopropylbenzene	ND		1.00	1	10/16/2015 13:18	WG822246
2-Butanone (MEK)	ND		10.0	1	10/16/2015 13:18	WG822246
Methyl Acetate	ND		20.0	1	10/16/2015 13:18	WG822246
Methyl Cyclohexane	ND		1.00	1	10/16/2015 13:18	WG822246
Methylene Chloride	ND		5.00	1	10/16/2015 13:18	WG822246
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	10/16/2015 13:18	WG822246
Methyl tert-butyl ether	ND		1.00	1	10/16/2015 13:18	WG822246
Styrene	ND		1.00	1	10/16/2015 13:18	WG822246
1,1,2,2-Tetrachloroethane	ND		1.00	1	10/16/2015 13:18	WG822246
Tetrachloroethene	ND		1.00	1	10/16/2015 13:18	WG822246
Toluene	ND		5.00	1	10/16/2015 13:18	WG822246
1,2,3-Trichlorobenzene	ND		1.00	1	10/16/2015 13:18	WG822246
1,2,4-Trichlorobenzene	ND		1.00	1	10/16/2015 13:18	WG822246
1,1,1-Trichloroethane	ND		1.00	1	10/16/2015 13:18	WG822246
1,1,2-Trichloroethane	ND		1.00	1	10/16/2015 13:18	WG822246
Trichloroethene	ND	UJ	1.00	1	10/16/2015 13:18	WG822246
Trichlorofluoromethane	ND		5.00	1	10/16/2015 13:18	WG822246
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	10/16/2015 13:18	WG822246
Vinyl chloride	ND		1.00	1	10/16/2015 13:18	WG822246
Xylenes, Total	ND		3.00	1	10/16/2015 13:18	WG822246
(S) Toluene-d8	*105*		*90.0-115*		*10/16/2015 13:18*	WG822246
(S) Dibromofluoromethane	*99.3*		*79.0-121*		*10/16/2015 13:18*	WG822246
(S) a,a,a-Trifluorotoluene	*109*		*90.4-116*		*10/16/2015 13:18*	WG822246
(S) 4-Bromofluorobenzene	*110*		*80.1-120*		*10/16/2015 13:18*	WG822246

Method Blank (MB)

(MB) 10/16/15 12:37

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Acetone	ND		0.0500
Benzene	ND		0.00100
Bromodichloromethane	ND		0.00100
Bromochloromethane	ND		0.00100
Bromoform	ND		0.00100
Bromomethane	ND		0.00500
Carbon disulfide	ND		0.00100
Carbon tetrachloride	ND		0.00100
Chlorobenzene	ND		0.00100
Chlorodibromomethane	ND		0.00100
Chloroethane	ND		0.00500
Chloroform	ND		0.00500
Chloromethane	ND		0.00250
Cyclohexane	ND		0.00100
1,2-Dibromo-3-Chloropropane	ND		0.00500
1,2-Dibromoethane	ND		0.00100
1,2-Dichlorobenzene	ND		0.00100
1,3-Dichlorobenzene	ND		0.00100
1,4-Dichlorobenzene	ND		0.00100
Dichlorodifluoromethane	ND		0.00500
1,1-Dichloroethane	ND		0.00100
1,2-Dichloroethane	ND		0.00100
1,1-Dichloroethene	ND		0.00100
cis-1,2-Dichloroethene	ND		0.00100
trans-1,2-Dichloroethene	ND		0.00100
1,2-Dichloropropane	ND		0.00100
cis-1,3-Dichloropropene	ND		0.00100
trans-1,3-Dichloropropene	ND		0.00100
Ethylbenzene	ND		0.00100
2-Hexanone	ND		0.0100
Isopropylbenzene	ND		0.00100
2-Butanone (MEK)	ND		0.0100
Methyl Acetate	ND		0.0200
Methyl Cyclohexane	ND		0.00100
Methylene Chloride	ND		0.00500
4-Methyl-2-pentanone (MIBK)	ND		0.0100

Method Blank (MB)

(MB) 10/16/15 12:37

Analyte	MB Result	MB Qualifier	MB RDL
	mg/l		mg/l
Methyl tert-butyl ether	ND		0.00100
Styrene	ND		0.00100
1,1,2,2-Tetrachloroethane	ND		0.00100
Tetrachloroethene	ND		0.00100
Toluene	ND		0.00500
1,1,2-Trichlorotrifluoroethane	ND		0.00100
1,2,3-Trichlorobenzene	ND		0.00100
1,2,4-Trichlorobenzene	ND		0.00100
1,1,1-Trichloroethane	ND		0.00100
1,1,2-Trichloroethane	ND		0.00100
Trichloroethene	ND		0.00100
Trichlorofluoromethane	ND		0.00500
Vinyl chloride	ND		0.00100
Xylenes, Total	ND		0.00300
(S) Toluene-d8	*107*		*90.0-115*
(S) Dibromofluoromethane	*99.1*		*79.0-121*
(S) a,a,a-Trifluorotoluene	*105*		*90.4-116*
(S) 4-Bromofluorobenzene	*106*		*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/16/15 11:06 • (LCSD) 10/16/15 11:24

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Acetone	0.125	0.178	0.191	142	152	28.7-175			6.93	20.9
Benzene	0.0250	0.0243	0.0231	97.2	92.5	73.0-122			4.97	20
Bromodichloromethane	0.0250	0.0285	0.0259	114	104	75.5-121			9.55	20
Bromochloromethane	0.0250	0.0258	0.0249	103	99.5	78.9-123			3.63	20
Bromoform	0.0250	0.0267	0.0253	107	101	71.5-131			5.54	20
Bromomethane	0.0250	0.0277	0.0261	111	104	22.4-187			5.86	20
Carbon disulfide	0.0250	0.0288	0.0275	115	110	53.0-134			4.55	20
Carbon tetrachloride	0.0250	0.0273	0.0263	109	105	70.9-129			3.55	20
Chlorobenzene	0.0250	0.0268	0.0252	107	101	79.7-122			6.13	20
Chlorodibromomethane	0.0250	0.0276	0.0263	110	105	78.2-124			4.86	20
Chloroethane	0.0250	0.0288	0.0274	115	110	41.2-153			5.07	20
Chloroform	0.0250	0.0263	0.0257	105	103	73.2-125			2.30	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/16/15 11:06 • (LCSD) 10/16/15 11:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloromethane	0.0250	0.0231	0.0228	92.4	91.2	55.8-134			1.37	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0232	0.0259	92.7	104	64.8-131			11.2	20
1,2-Dibromoethane	0.0250	0.0257	0.0248	103	99.0	79.8-122			3.85	20
1,2-Dichlorobenzene	0.0250	0.0250	0.0264	100	105	84.7-118			5.25	20
1,3-Dichlorobenzene	0.0250	0.0271	0.0253	108	101	77.6-127			6.94	20
1,4-Dichlorobenzene	0.0250	0.0247	0.0237	98.8	95.0	82.2-114			3.99	20
Dichlorodifluoromethane	0.0250	0.0272	0.0257	109	103	56.0-134			5.66	20
1,1-Dichloroethane	0.0250	0.0258	0.0251	103	100	71.7-127			2.92	20
1,2-Dichloroethane	0.0250	0.0272	0.0261	109	105	79.8-122			3.83	20
1,1-Dichloroethene	0.0250	0.0310	0.0295	124	118	59.9-137			5.03	20
cis-1,2-Dichloroethene	0.0250	0.0250	0.0243	99.8	97.3	77.3-122			2.51	20
trans-1,2-Dichloroethene	0.0250	0.0253	0.0250	101	100	72.6-125			1.25	20
1,2-Dichloropropane	0.0250	0.0267	0.0247	107	98.9	77.4-125			7.57	20
cis-1,3-Dichloropropene	0.0250	0.0274	0.0261	110	104	77.7-124			4.88	20
trans-1,3-Dichloropropene	0.0250	0.0289	0.0265	116	106	73.5-127			8.52	20
Ethylbenzene	0.0250	0.0276	0.0257	110	103	80.9-121			7.00	20
2-Hexanone	0.125	0.154	0.151	123	120	59.4-151			2.26	20
Isopropylbenzene	0.0250	0.0283	0.0257	113	103	81.6-124			9.81	20
2-Butanone (MEK)	0.125	0.137	0.141	109	113	46.4-155			3.22	20
Methylene Chloride	0.0250	0.0248	0.0241	99.1	96.3	69.5-120			2.80	20
4-Methyl-2-pentanone (MIBK)	0.125	0.130	0.126	104	101	63.3-138			3.57	20
Methyl tert-butyl ether	0.0250	0.0265	0.0253	106	101	70.1-125			4.52	20
Styrene	0.0250	0.0282	0.0266	113	106	79.9-124			5.71	20
1,1,2,2-Tetrachloroethane	0.0250	0.0255	0.0244	102	97.7	79.3-123			4.31	20
Tetrachloroethene	0.0250	0.0273	0.0259	109	103	73.5-130			5.36	20
Toluene	0.0250	0.0254	0.0241	102	96.3	77.9-116			5.45	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0290	0.0284	116	114	62.0-141			1.99	20
1,2,3-Trichlorobenzene	0.0250	0.0255	0.0250	102	100	75.7-134			1.98	20
1,2,4-Trichlorobenzene	0.0250	0.0264	0.0268	106	107	76.1-136			1.59	20
1,1,1-Trichloroethane	0.0250	0.0273	0.0271	109	108	71.1-129			0.840	20
1,1,2-Trichloroethane	0.0250	0.0263	0.0254	105	101	81.6-120			3.54	20
Trichloroethene	0.0250	0.0269	0.0259	108	104	79.5-121			3.86	20
Trichlorofluoromethane	0.0250	0.0291	0.0276	116	110	49.1-157			5.19	20
Vinyl chloride	0.0250	0.0292	0.0279	117	112	61.5-134			4.28	20
Xylenes, Total	0.0750	0.0812	0.0771	108	103	79.2-122			5.15	20
(S) Toluene-d8				*108*	*102*	*90.0-115*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/16/15 11:06 • (LCSD) 10/16/15 11:24

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
(S) Dibromofluoromethane				*96.3*	*99.0*	*79.0-121*				
(S) a,a,a-Trifluorotoluene				*105*	*103*	*90.4-116*				
(S) 4-Bromofluorobenzene				*102*	*102*	*80.1-120*				

L793892-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 10/16/15 13:36 • (MS) 10/16/15 13:55 • (MSD) 10/16/15 14:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.00228	0.0769	0.0776	59.7	60.2	1	25.0-156			0.850	21.5
Benzene	0.0250	ND	0.0180	0.0205	71.9	81.8	1	58.6-133			13.0	20
Bromodichloromethane	0.0250	ND	0.0237	0.0262	94.8	105	1	69.2-127			10.2	20
Bromochloromethane	0.0250	ND	0.0200	0.0234	79.9	93.5	1	74.4-128			15.6	20
Bromoform	0.0250	ND	0.0240	0.0266	96.1	106	1	66.3-140			10.3	20
Bromomethane	0.0250	ND	0.0183	0.0200	73.3	79.8	1	16.6-183			8.46	20.5
Carbon disulfide	0.0250	ND	0.0148	0.0167	59.1	67.0	1	34.9-138			12.5	20
Carbon tetrachloride	0.0250	ND	0.0212	0.0243	84.9	97.0	1	60.6-139			13.3	20
Chlorobenzene	0.0250	ND	0.0218	0.0244	87.2	97.7	1	70.1-130			11.3	20
Chlorodibromomethane	0.0250	ND	0.0237	0.0264	94.6	106	1	71.6-132			11.0	20
Chloroethane	0.0250	ND	0.0192	0.0221	76.8	88.5	1	33.3-155			14.2	20
Chloroform	0.0250	ND	0.0214	0.0251	85.7	100	1	66.1-133			15.8	20
Chloromethane	0.0250	ND	0.0135	0.0154	53.9	61.6	1	40.7-139			13.4	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0240	0.0262	96.1	105	1	63.9-142			8.64	20.2
1,2-Dibromoethane	0.0250	ND	0.0218	0.0242	87.1	96.8	1	73.8-131			10.6	20
1,2-Dichlorobenzene	0.0250	ND	0.0212	0.0248	85.0	99.3	1	77.4-127			15.6	20
1,3-Dichlorobenzene	0.0250	ND	0.0230	0.0259	92.1	103	1	67.9-136			11.6	20
1,4-Dichlorobenzene	0.0250	ND	0.0208	0.0227	83.1	90.8	1	74.4-123			8.84	20
Dichlorodifluoromethane	0.0250	0.00132	0.0184	0.0208	68.2	77.7	1	42.2-146			12.2	20
1,1-Dichloroethane	0.0250	0.000305	0.0205	0.0229	80.8	90.4	1	64.0-134			11.0	20
1,2-Dichloroethane	0.0250	ND	0.0235	0.0250	94.1	100	1	60.7-132			6.29	20
1,1-Dichloroethene	0.0250	ND	0.0216	0.0245	86.6	98.2	1	48.8-144			12.5	20
cis-1,2-Dichloroethene	0.0250	ND	0.0192	0.0222	76.6	88.9	1	60.6-136			14.9	20
trans-1,2-Dichloroethene	0.0250	ND	0.0183	0.0199	73.1	79.7	1	61.0-132			8.75	20
1,2-Dichloropropane	0.0250	ND	0.0209	0.0235	83.8	94.0	1	69.7-130			11.5	20
cis-1,3-Dichloropropene	0.0250	ND	0.0216	0.0244	86.3	97.5	1	71.1-129			12.2	20
trans-1,3-Dichloropropene	0.0250	ND	0.0233	0.0266	93.3	106	1	66.3-136			13.0	20

L793892-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 10/16/15 13:36 • (MS) 10/16/15 13:55 • (MSD) 10/16/15 14:13

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Ethylbenzene	0.0250	ND	0.0218	0.0244	87.0	97.6	1	62.7-136			11.5	20
2-Hexanone	0.125	ND	0.117	0.124	94.0	99.3	1	59.4-154			5.51	20.1
Isopropylbenzene	0.0250	ND	0.0218	0.0250	87.1	99.9	1	67.4-136			13.7	20
2-Butanone (MEK)	0.125	ND	0.0891	0.0905	71.3	72.4	1	45.0-156			1.51	20.8
Methylene Chloride	0.0250	0.000550	0.0192	0.0208	74.8	81.0	1	61.5-125			7.78	20
4-Methyl-2-pentanone (MIBK)	0.125	ND	0.119	0.127	95.0	102	1	60.7-150			6.97	20
Methyl tert-butyl ether	0.0250	ND	0.0224	0.0239	89.5	95.5	1	61.4-136			6.49	20
Styrene	0.0250	ND	0.0215	0.0252	86.2	101	1	68.2-133			15.6	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0241	0.0261	96.6	104	1	64.9-145			7.82	20
Tetrachloroethene	0.0250	ND	0.0207	0.0243	82.8	97.1	1	57.4-141			15.9	20
Toluene	0.0250	ND	0.0197	0.0225	78.9	90.0	1	67.8-124			13.2	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0221	0.0257	88.2	103	1	53.7-150			15.2	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0216	0.0240	86.6	95.9	1	65.7-143			10.2	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0228	0.0255	91.4	102	1	67.0-146			11.2	20
1,1,1-Trichloroethane	0.0250	ND	0.0219	0.0250	87.8	99.9	1	62.8-138			12.9	20
1,1,2-Trichloroethane	0.0250	ND	0.0227	0.0255	90.9	102	1	74.1-130			11.7	20
Trichloroethene	0.0250	ND	0.0205	0.0233	82.0	93.3	1	48.9-148			12.9	20
Trichlorofluoromethane	0.0250	0.000396	0.0221	0.0251	86.7	98.8	1	39.9-165			12.8	20
Vinyl chloride	0.0250	ND	0.0179	0.0208	71.7	83.3	1	44.3-143			15.0	20
Xylenes, Total	0.0750	ND	0.0614	0.0715	81.9	95.3	1	65.6-133			15.1	20
(S) Toluene-d8					*104*	*105*		*90.0-115*				
(S) Dibromofluoromethane					*97.9*	*97.6*		*79.0-121*				
(S) a,a,a-Trifluorotoluene					*104*	*105*		*90.4-116*				
(S) 4-Bromofluorobenzene					*104*	*105*		*80.1-120*				

Method Blank (MB)

(MB) 10/19/15 07:47

Analyte	MB Result	MB Qualifier	MB RDL
	mg/l		mg/l
Chloroethane	ND		0.00500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/19/15 05:32 • (LCSD) 10/19/15 05:54

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Chloroethane	0.0250	0.0189	0.0186	75.5	74.6	41.2-153			1.27	20

Method Blank (MB)

(MB) 10/18/15 23:27

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Acetone	ND		0.0500
Benzene	ND		0.00100
Bromodichloromethane	ND		0.00100
Bromochloromethane	ND		0.00100
Bromoform	ND		0.00100
Bromomethane	ND		0.00500
Carbon disulfide	ND		0.00100
Carbon tetrachloride	ND		0.00100
Chlorobenzene	ND		0.00100
Chlorodibromomethane	ND		0.00100
Chloroform	ND		0.00500
Chloromethane	ND		0.00250
Cyclohexane	ND		0.00100
1,2-Dibromo-3-Chloropropane	ND		0.00500
1,2-Dibromoethane	ND		0.00100
1,2-Dichlorobenzene	ND		0.00100
1,3-Dichlorobenzene	ND		0.00100
1,4-Dichlorobenzene	ND		0.00100
Dichlorodifluoromethane	ND		0.00500
1,1-Dichloroethane	ND		0.00100
1,2-Dichloroethane	ND		0.00100
1,1-Dichloroethene	ND		0.00100
cis-1,2-Dichloroethene	ND		0.00100
trans-1,2-Dichloroethene	ND		0.00100
1,2-Dichloropropane	ND		0.00100
cis-1,3-Dichloropropene	ND		0.00100
trans-1,3-Dichloropropene	ND		0.00100
Ethylbenzene	ND		0.00100
2-Hexanone	ND		0.0100
Isopropylbenzene	ND		0.00100
2-Butanone (MEK)	ND		0.0100
Methyl Acetate	ND		0.0200
Methyl Cyclohexane	ND		0.00100
Methylene Chloride	ND		0.00500
4-Methyl-2-pentanone (MIBK)	ND		0.0100
Methyl tert-butyl ether	ND		0.00100

Method Blank (MB)

(MB) 10/18/15 23:27

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Styrene	ND		0.00100
1,1,2,2-Tetrachloroethane	ND		0.00100
Tetrachloroethene	ND		0.00100
Toluene	ND		0.00500
1,1,2-Trichlorotrifluoroethane	ND		0.00100
1,2,3-Trichlorobenzene	ND		0.00100
1,2,4-Trichlorobenzene	ND		0.00100
1,1,1-Trichloroethane	ND		0.00100
1,1,2-Trichloroethane	ND		0.00100
Trichloroethene	ND		0.00100
Trichlorofluoromethane	ND		0.00500
Vinyl chloride	ND		0.00100
Xylenes, Total	ND		0.00300
(S) Toluene-d8	*105*		*90.0-115*
(S) Dibromofluoromethane	*94.9*		*79.0-121*
(S) a,a,a-Trifluorotoluene	*104*		*90.4-116*
(S) 4-Bromofluorobenzene	*101*		*80.1-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/18/15 21:04 • (LCSD) 10/18/15 21:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.122	0.123	97.6	98.3	28.7-175			0.750	20.9
Benzene	0.0250	0.0233	0.0236	93.1	94.4	73.0-122			1.46	20
Bromodichloromethane	0.0250	0.0238	0.0240	95.2	96.0	75.5-121			0.740	20
Bromochloromethane	0.0250	0.0249	0.0255	99.8	102	78.9-123			2.12	20
Bromoform	0.0250	0.0235	0.0232	93.9	92.8	71.5-131			1.13	20
Bromomethane	0.0250	0.0282	0.0283	113	113	22.4-187			0.310	20
Carbon disulfide	0.0250	0.0229	0.0224	91.7	89.6	53.0-134			2.28	20
Carbon tetrachloride	0.0250	0.0232	0.0236	92.8	94.5	70.9-129			1.76	20
Chlorobenzene	0.0250	0.0254	0.0240	101	96.0	79.7-122			5.57	20
Chlorodibromomethane	0.0250	0.0231	0.0233	92.3	93.1	78.2-124			0.860	20
Chloroform	0.0250	0.0245	0.0249	98.0	99.8	73.2-125			1.82	20
Chloromethane	0.0250	0.0190	0.0187	76.1	74.7	55.8-134			1.79	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0219	0.0220	87.7	88.2	64.8-131			0.570	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/18/15 21:04 • (LCSD) 10/18/15 21:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
1,2-Dibromoethane	0.0250	0.0248	0.0240	99.1	96.1	79.8-122			3.09	20
1,2-Dichlorobenzene	0.0250	0.0245	0.0244	98.1	97.7	84.7-118			0.400	20
1,3-Dichlorobenzene	0.0250	0.0250	0.0237	100	94.8	77.6-127			5.33	20
1,4-Dichlorobenzene	0.0250	0.0242	0.0228	96.8	91.2	82.2-114			5.99	20
Dichlorodifluoromethane	0.0250	0.0228	0.0230	91.0	92.1	56.0-134			1.14	20
1,1-Dichloroethane	0.0250	0.0237	0.0241	94.7	96.6	71.7-127			1.96	20
1,2-Dichloroethane	0.0250	0.0234	0.0230	93.6	92.2	79.8-122			1.51	20
1,1-Dichloroethene	0.0250	0.0238	0.0238	95.1	95.2	59.9-137			0.100	20
cis-1,2-Dichloroethene	0.0250	0.0238	0.0235	95.3	94.0	77.3-122			1.29	20
trans-1,2-Dichloroethene	0.0250	0.0230	0.0233	91.9	93.4	72.6-125			1.61	20
1,2-Dichloropropane	0.0250	0.0236	0.0237	94.3	94.8	77.4-125			0.490	20
cis-1,3-Dichloropropene	0.0250	0.0247	0.0252	98.8	101	77.7-124			1.89	20
trans-1,3-Dichloropropene	0.0250	0.0245	0.0242	98.2	96.8	73.5-127			1.44	20
Ethylbenzene	0.0250	0.0246	0.0243	98.4	97.1	80.9-121			1.32	20
2-Hexanone	0.125	0.122	0.121	97.5	96.7	59.4-151			0.730	20
Isopropylbenzene	0.0250	0.0238	0.0236	95.1	94.3	81.6-124			0.790	20
2-Butanone (MEK)	0.125	0.121	0.122	97.0	97.7	46.4-155			0.640	20
Methylene Chloride	0.0250	0.0251	0.0253	100	101	69.5-120			1.07	20
4-Methyl-2-pentanone (MIBK)	0.125	0.120	0.124	95.7	99.0	63.3-138			3.38	20
Methyl tert-butyl ether	0.0250	0.0232	0.0239	92.6	95.7	70.1-125			3.29	20
Styrene	0.0250	0.0255	0.0240	102	95.9	79.9-124			6.36	20
1,1,2,2-Tetrachloroethane	0.0250	0.0254	0.0244	102	97.7	79.3-123			4.08	20
Tetrachloroethene	0.0250	0.0234	0.0229	93.6	91.5	73.5-130			2.34	20
Toluene	0.0250	0.0231	0.0235	92.2	94.1	77.9-116			1.97	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0237	0.0235	94.7	94.0	62.0-141			0.690	20
1,2,3-Trichlorobenzene	0.0250	0.0263	0.0248	105	99.2	75.7-134			5.93	20
1,2,4-Trichlorobenzene	0.0250	0.0265	0.0263	106	105	76.1-136			0.740	20
1,1,1-Trichloroethane	0.0250	0.0230	0.0234	92.1	93.8	71.1-129			1.75	20
1,1,2-Trichloroethane	0.0250	0.0241	0.0236	96.3	94.4	81.6-120			2.01	20
Trichloroethene	0.0250	0.0225	0.0231	90.0	92.3	79.5-121			2.61	20
Trichlorofluoromethane	0.0250	0.0262	0.0261	105	104	49.1-157			0.300	20
Vinyl chloride	0.0250	0.0236	0.0234	94.2	93.6	61.5-134			0.720	20
Xylenes, Total	0.0750	0.0732	0.0703	97.6	93.7	79.2-122			4.15	20
(S) Toluene-d8				*104*	*105*	*90.0-115*				
(S) Dibromofluoromethane				*99.7*	*98.0*	*79.0-121*				
(S) a,a,a-Trifluorotoluene				*102*	*105*	*90.4-116*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/18/15 21:04 • (LCSD) 10/18/15 21:28

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
(S) 4-Bromofluorobenzene				*103*	*97.9*	*80.1-120*				

non-program sample 183

L794661-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 10/19/15 01:52 • (MS) 10/18/15 23:51 • (MSD) 10/19/15 00:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.125	0.0212	0.0735	0.0725	41.9	41.0	1	25.0-156			1.40	21.5
Benzene	0.0250	0.169	0.179	0.167	37.4	0.000	1	58.6-133	J6	J6	6.48	20
Bromodichloromethane	0.0250	0.000734	0.0245	0.0243	94.9	94.4	1	69.2-127			0.560	20
Bromochloromethane	0.0250	ND	0.0234	0.0234	93.5	93.4	1	74.4-128			0.0800	20
Bromoform	0.0250	ND	0.0221	0.0224	88.5	89.4	1	66.3-140			1.05	20
Bromomethane	0.0250	ND	0.0244	0.0242	97.4	96.7	1	16.6-183			0.780	20.5
Carbon disulfide	0.0250	ND	0.0143	0.0146	57.0	58.5	1	34.9-138			2.57	20
Carbon tetrachloride	0.0250	ND	0.0214	0.0225	85.8	90.1	1	60.6-139			4.93	20
Chlorobenzene	0.0250	ND	0.0233	0.0237	93.1 ✓	94.7 ✓	1	70.1-130			1.60	20
Chlorodibromomethane	0.0250	ND	0.0233	0.0229	93.2	91.7	1	71.6-132			1.67	20
Chloroform	0.0250	0.00514	0.0275	0.0289	89.3	95.2	1	66.1-133			5.21	20
Chloromethane	0.0250	0.00392	0.0193	0.0192	61.4	61.1	1	40.7-139			0.360	20
1,2-Dibromo-3-Chloropropane	0.0250	ND	0.0219	0.0231	87.5	92.3	1	63.9-142			5.34	20.2
1,2-Dibromoethane	0.0250	ND	0.0224	0.0224	89.4	89.6	1	73.8-131			0.240	20
1,2-Dichlorobenzene	0.0250	ND	0.0238	0.0243	95.3	97.0	1	77.4-127			1.84	20
1,3-Dichlorobenzene	0.0250	ND	0.0232	0.0227	92.8	90.9	1	67.9-136			2.02	20
1,4-Dichlorobenzene	0.0250	ND	0.0249	0.0233	99.6	93.1	1	74.4-123			6.78	20
Dichlorodifluoromethane	0.0250	ND	0.0179	0.0186	71.5	74.2	1	42.2-146			3.73	20
1,1-Dichloroethane	0.0250	0.000477	0.0230	0.0238	90.1	93.4	1	64.0-134			3.49	20
1,2-Dichloroethane	0.0250	ND	0.0223	0.0221	89.2	88.5	1	60.7-132			0.760	20
1,1-Dichloroethene	0.0250	ND	0.0208	0.0207	83.3 ✓	82.7 ✓	1	48.8-144			0.780	20
cis-1,2-Dichloroethene	0.0250	0.00125	0.0245	0.0243	93.0	92.1	1	60.6-136			0.900	20
trans-1,2-Dichloroethene	0.0250	ND	0.0200	0.0211	80.1	84.5	1	61.0-132			5.37	20
1,2-Dichloropropane	0.0250	0.00232	0.0233	0.0235	83.7	84.8	1	69.7-130			1.09	20
cis-1,3-Dichloropropene	0.0250	0.00503	0.0227	0.0236	70.9	74.4	1	71.1-129	J6		3.84	20
trans-1,3-Dichloropropene	0.0250	0.000999	0.0245	0.0242	93.9	92.7	1	66.3-136			1.26	20
Ethylbenzene	0.0250	0.0521	0.0685	0.0698	65.4	70.7	1	62.7-136			1.92	20
2-Hexanone	0.125	ND	0.0874	0.0965	69.9	77.2	1	59.4-154			9.91	20.1
Isopropylbenzene	0.0250	0.00537	0.0281	0.0285	90.9	92.4	1	67.4-136			1.27	20

L794661-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 10/19/15 01:52 • (MS) 10/18/15 23:51 • (MSD) 10/19/15 00:15

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
2-Butanone (MEK)	0.125	0.0115	0.0950	0.0935	66.7	65.6	1	45.0-156			1.50	20.8
Methylene Chloride	0.0250	ND	0.0224	0.0223	89.5	89.3	1	61.5-125			0.230	20
4-Methyl-2-pentanone (MIBK)	0.125	0.00105	0.118	0.121	93.5	96.0	1	60.7-150			2.61	20
Methyl tert-butyl ether	0.0250	ND	0.0237	0.0235	94.6	94.0	1	61.4-136			0.640	20
Styrene	0.0250	0.00136	0.0255	0.0254	96.6	96.1	1	68.2-133			0.560	20
1,1,2,2-Tetrachloroethane	0.0250	ND	0.0239	0.0236	95.7	94.3	1	64.9-145			1.41	20
Tetrachloroethene	0.0250	0.00156	0.0224	0.0223	83.5	83.0	1	57.4-141			0.670	20
Toluene	0.0250	0.283	0.283	0.267	0.651	0.000	1	67.8-124	J6	J6	5.99	20
1,1,2-Trichlorotrifluoroethane	0.0250	ND	0.0220	0.0236	87.9	94.5	1	53.7-150			7.28	20
1,2,3-Trichlorobenzene	0.0250	ND	0.0264	0.0263	106	105	1	65.7-143			0.390	20
1,2,4-Trichlorobenzene	0.0250	ND	0.0270	0.0266	108	106	1	67.0-146			1.56	20
1,1,1-Trichloroethane	0.0250	ND	0.0233	0.0231	93.1	92.2	1	62.8-138			0.960	20
1,1,2-Trichloroethane	0.0250	0.00154	0.0235	0.0245	88.0	91.9	1	74.1-130			4.01	20
Trichloroethene	0.0250	0.000426	0.0220	0.0219	86.1	85.8	1	48.9-148			0.420	20
Trichlorofluoromethane	0.0250	ND	0.0227	0.0238	90.7	95.3	1	39.9-165			5.02	20
Vinyl chloride	0.0250	ND	0.0182	0.0192	72.7	76.7	1	44.3-143			5.42	20
Xylenes, Total	0.0750	0.158	0.220	0.211	82.5	70.6	1	65.6-133			4.15	20
(S) Toluene-d8					*106*	*104*		*90.0-115*				
(S) Dibromofluoromethane					*104*	*101*		*79.0-121*				
(S) a,a,a-Trifluorotoluene					*101*	*101*		*90.4-116*				
(S) 4-Bromofluorobenzene					*99.3*	*96.2*		*80.1-120*				

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 2151305
Project: Former Photech Imaging Site
Collection Date: 10/7/2015
Analysis Date: 10/16/2015
Instrument ID: VOCMS25
Matrix: Water - mg/L
EPA ID: TN00003
Analytic Batch: WG822246
Analyst: 189
Sample Numbers: L793892-01, -02, -03, -04, -05, -06, -07, -08, -10, -11, -12, -13, -14, -16

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS25	LCS WG822246	LCS WG822246	1016_04.D	10/16/2015	11:06 AM
VOCMS25	LCSD WG822246	LCSD WG822246	1016_05.D	10/16/2015	11:24 AM
VOCMS25	Blank WG822246	Blank WG822246	1016_09.D	10/16/2015	12:37 PM
VOCMS25	EQ BLANK	L793892-14	1016_10.D	10/16/2015	1:00 PM
VOCMS25	TRIP BLANK	L793892-16	1016_11.D	10/16/2015	1:18 PM
VOCMS25	RMW-7	L793892-06	1016_12.D	10/16/2015	1:36 PM
VOCMS25	MS WG822246	MS WG822246	1016_13.D	10/16/2015	1:55 PM
VOCMS25	MSD WG822246	MSD WG822246	1016_14.D	10/16/2015	2:13 PM
VOCMS25	RMW-5	L793892-01	1016_17.D	10/16/2015	3:08 PM
VOCMS25	RMW-6	L793892-02	1016_18.D	10/16/2015	3:26 PM
VOCMS25	RMW-8	L793892-03	1016_19.D	10/16/2015	3:44 PM
VOCMS25	RMW-9	L793892-04	1016_20.D	10/16/2015	4:02 PM
VOCMS25	BLIND DUP	L793892-05	1016_21.D	10/16/2015	4:21 PM
VOCMS25	RMW-4	L793892-07	1016_22.D	10/16/2015	4:39 PM
VOCMS25	WELL-07	L793892-08	1016_23.D	10/16/2015	4:57 PM
VOCMS25	WELL-09	L793892-10	1016_25.D	10/16/2015	5:34 PM
VOCMS25	RMW-2	L793892-11	1016_26.D	10/16/2015	5:52 PM
VOCMS25	RMW-1	L793892-12	1016_27.D	10/16/2015	6:10 PM
VOCMS25	WELL-04	L793892-13	1016_28.D	10/16/2015	6:28 PM

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test:	Volatile Organic Compounds by Method 8260C		
Project No:	2151305	Matrix:	Water - mg/L
Project:	Former Photech Imaging Site	EPA ID:	TN00003
Collection Date:	10/7/2015	**Analytic Batch:**	**WG822564**
Analysis Date:	10/19/2015	Analyst:	189
Instrument ID:	VOCMS30		
Sample Numbers:	L793892-09		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS30	LCS WG822564	LCS WG822564	1019_04.D	10/19/2015	5:32 AM
VOCMS30	LCSD WG822564	LCSD WG822564	1019_05.D	10/19/2015	5:54 AM
VOCMS30	Blank WG822564	Blank WG822564	1019_10.D	10/19/2015	7:47 AM
VOCMS30	MS WG822564	MS WG822564	1019_14.D	10/19/2015	9:18 AM
VOCMS30	MSD WG822564	MSD WG822564	1019_15.D	10/19/2015	9:40 AM
VOCMS30	RMW-3	L793892-09	1019_30.D	10/19/2015	3:19 PM

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test:	Volatile Organic Compounds by Method 8260C		
Project No:	2151305	Matrix:	Water - mg/L
Project:	Former Photech Imaging Site	EPA ID:	TN00003
Collection Date:	10/7/2015	**Analytic Batch:**	**WG822800**
Analysis Date:	10/18/2015	Analyst:	522
Instrument ID:	VOCMS8		
Sample Numbers:	L793892-09		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
VOCMS8	LCS WG822800	LCS WG822800	1018_34.D	10/18/2015	9:04 PM
VOCMS8	LCSD WG822800	LCSD WG822800	1018_35.D	10/18/2015	9:28 PM
VOCMS8	Blank WG822800	Blank WG822800	1018_40.D	10/18/2015	11:27 PM
VOCMS8	MS WG822800	MS WG822800	1018_41.D	10/18/2015	11:51 PM
VOCMS8	MSD WG822800	MSD WG822800	1018_42.D	10/19/2015	12:15 AM
VOCMS8	RMW-3	L793892-09	1018_48.D	10/19/2015	2:41 AM

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test:	Volatile Organic Compounds by Method 8260C		
Project No:	2151305	Matrix:	Water - mg/L
Project:	Former Photech Imaging Site	EPA ID:	TN00003
Collection Date:	10/7/2015	**Analytic Batch:**	**WG822246**
Analysis Date:	10/16/2015	Analyst:	189
Instrument ID:	VOCMS25		

Sample Numbers: L793892-01, -02, -03, -04, -05, -06, -07, -08, -10, -11, -12, -13, -14, -16

Internal Standard Response and Retention Time Summary

File ID: 1016_02
Analyzed: 10/16/15 102000

	IS1		IS2		IS3		IS4	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	443127	3.77	733979	4.09	128097	5.23	339532	7.63
Upper Limit	886000	4.27	1470000	4.59	256000	5.73	679000	8.13
Lower Limit	222000	3.27	367000	3.59	64000	4.73	170000	7.13
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L793892-14	410942	3.77	688100	4.09	110529	5.23	306685	7.63
L793892-16	352649	3.77	578728	4.09	98932	5.23	287149	7.63
L793892-06	374896	3.77	634723	4.09	109072	5.23	293609	7.63
L793892-01	389815	3.77	667034	4.09	113923	5.23	314027	7.63
L793892-02	395372	3.77	632190	4.09	109416	5.23	315166	7.63
L793892-03	392548	3.77	627915	4.09	108602	5.23	307871	7.63
L793892-04	366871	3.77	591486	4.09	101847	5.23	288460	7.63
L793892-05	349256	3.77	593126	4.09	99266	5.23	281094	7.63
L793892-07	354283	3.77	564972	4.09	97885	5.23	276377	7.63
L793892-08	346349	3.77	580069	4.09	94825	5.23	268758	7.63
L793892-10	326517	3.77	518280	4.09	88249	5.23	252238	7.63
L793892-11	327785	3.77	518905	4.09	89353	5.23	252064	7.63
L793892-12	308700	3.77	513968	4.09	87263	5.23	248999	7.63
L793892-13	316013	3.77	512835	4.09	84765	5.23	244231	7.63
MSD WG822246	371159	3.77	610191	4.09	104471	5.23	293818	7.63
MS WG822246	376827	3.77	623753	4.09	107614	5.23	300583	7.63
LCSD WG822246	459341	3.77	771390	4.09	130830	5.23	337301	7.63
LCS WG822246	443101	3.77	715439	4.09	122137	5.23	337627	7.63
BLANK WG822246	413361	3.77	681950	4.09	116131	5.23	319987	7.63

Legend:
IS1 -- PENTAFLUOROBENZENE
IS2 -- 1,4-DIFLUOROBENZENE
IS3 -- 2-BROMO-1-CHLOROPROPANE
IS4 -- 1,4-DICHLOROBENZENE-D4

Parameters in bold text are reported in this SDG

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test:	Volatile Organic Compounds by Method 8260C		
Project No:	2151305	Matrix:	Water - mg/L
Project:	Former Photech Imaging Site	EPA ID:	TN00003
Collection Date:	10/7/2015	**Analytic Batch:**	**WG822564**
Analysis Date:	10/19/2015	Analyst:	189
Instrument ID:	VOCMS30		
Sample Numbers:	L793892-09		

Internal Standard Response and Retention Time Summary

File ID: 1019_02
Analyzed: 10/19/15 041900

	IS1		IS2		IS3		IS4	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	562018	4.35	911939	4.69	129892	5.86	410186	8.24
Upper Limit	1120000	4.85	1820000	5.19	260000	6.36	820000	8.74
Lower Limit	281000	3.85	456000	4.19	64900	5.36	205000	7.74
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L793892-09	594977	4.35	927215	4.69	129426	5.86	427214	8.25
MSD WG822564	566447	4.35	908760	4.69	127560	5.86	410449	8.24
MS WG822564	472798	4.35	763706	4.69	110493	5.86	344895	8.24
LCSD WG822564	563880	4.35	914073	4.69	126933	5.86	404635	8.24
LCS WG822564	567956	4.35	914496	4.69	126966	5.86	411752	8.24
BLANK WG822564	624306	4.35	976991	4.69	134923	5.86	440852	8.24

Legend:
IS1 -- PENTAFLUOROBENZENE
IS2 -- 1,4-DIFLUOROBENZENE
IS3 -- 2-BROMO-1-CHLOROPROPANE
IS4 -- 1,4-DICHLOROBENZENE-D4

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test:	Volatile Organic Compounds by Method 8260C		
Project No:	2151305	Matrix:	Water - mg/L
Project:	Former Photech Imaging Site	EPA ID:	TN00003
Collection Date:	10/7/2015	**Analytic Batch:**	**WG822800**
Analysis Date:	10/18/2015	Analyst:	522
Instrument ID:	VOCMS8		
Sample Numbers:	L793892-09		

Internal Standard Response and Retention Time Summary

File ID: 1018_33
Analyzed: 10/18/15 203400

	IS1		IS2		IS3		IS4	
	Response	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
12 Hr. Std	401320	4.56	748626	4.90	126192	6.08	306625	8.48
Upper Limit	803000	5.06	1500000	5.40	252000	6.58	613000	8.98
Lower Limit	201000	4.06	374000	4.40	63100	5.58	153000	7.98
Sample ID	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**	**Response**	**RT**
L793892-09	474047 ✓	4.55	825406 ✓	4.88	140461 ✓	6.07	331847 ✓	8.47
MSD WG822800	403142	4.56	735775	4.90	126358	6.09	292221	8.48
MS WG822800	392790	4.56	733629	4.90	125897	6.09	284664	8.48
LCSD WG822800	413417	4.56	752983	4.90	126839	6.08	303914	8.48
LCS WG822800	411701	4.56	757254	4.90	122918	6.08	300214	8.48
BLANK WG822800	381306	4.56	668087	4.90	107902	6.09	253520	8.49

Legend:
IS1 -- PENTAFLUOROBENZENE
IS2 -- 1,4-DIFLUOROBENZENE
IS3 -- 2-BROMO-1-CHLOROPROPANE
IS4 -- 1,4-DICHLOROBENZENE-D4

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 2151305
Project: Former Photech Imaging Site
Collection Date: 10/7/2015
Analysis Date: 10/16/2015
Instrument ID: VOCMS25
Matrix: Water - mg/L
EPA ID: TN00003
Analytic Batch: WG822246
Analyst: 189
Sample Numbers: L793892-01, -02, -03, -04, -05, -06, -07, -08, -10, -11, -12, -13, -14, -16

Surrogate Summary

			BFB		TFT		DFM		TD8	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L793892-01	VOCMS25	1016_17	0.0414	103	0.0412	103	0.0387	96.8	0.0409	102
L793892-02	VOCMS25	1016_18	0.0432	108	0.0424	106	0.0382	95.4	0.0414	103
L793892-03	VOCMS25	1016_19	0.0423	106	0.0440	110	0.0381	95.1	0.0420	105
L793892-04	VOCMS25	1016_20	0.0425	106	0.0426	107	0.0399	99.8	0.0415	104
L793892-05	VOCMS25	1016_21	0.0433	108	0.0419	105	0.0396	99.0	0.0412	103
L793892-06	VOCMS25	1016_12	0.0418	104	0.0427	107	0.0406	102	0.0423	106
L793892-07	VOCMS25	1016_22	0.0430	108	0.0445	111	0.0397	99.3	0.0430	107
L793892-08	VOCMS25	1016_23	0.0427	107	0.0424	106	0.0382	95.4	0.0403	101
L793892-10	VOCMS25	1016_25	0.0436	109	0.0426	106	0.0388	97.1	0.0412	103
L793892-11	VOCMS25	1016_26	0.0428	107	0.0429	107	0.0384	96.1	0.0425	106
L793892-12	VOCMS25	1016_27	0.0415	104	0.0418	105	0.0393	98.1	0.0399	99.8
L793892-13	VOCMS25	1016_28	0.0426	106	0.0416	104	0.0378	94.4	0.0416	104
L793892-14	VOCMS25	1016_10	0.0430	107	0.0426	106	0.0380	94.9	0.0410	103
L793892-16	VOCMS25	1016_11	0.0438	110	0.0436	109	0.0397	99.3	0.0419	105
LCS WG822246	VOCMS25	1016_04	0.0407	102	0.0421	105	0.0385	96.3	0.0432	108
LCSD WG822246	VOCMS25	1016_05	0.0409	102	0.0411	103	0.0396	99.0	0.0409	102
BLANK WG822246	VOCMS25	1016_09	0.0424	106	0.0419	105	0.0396	99.1	0.0426	107
MS WG822246	VOCMS25	1016_13	0.0417	104	0.0415	104	0.0391	97.9	0.0418	104
MSD WG822246	VOCMS25	1016_14	0.0420	105	0.0422	105	0.0390	97.6	0.0419	105

BFB --4-BROMOFLUOROBENZENE	True Value: 0.04 ppm	Limits: 80.1 - 120
TFT --A,A,A-TRIFLUOROTOLUENE	True Value: 0.04 ppm	Limits: 90.4 - 116
DFM --DIBROMOFLUOROMETHANE	True Value: 0.04 ppm	Limits: 79 - 121
TD8 --TOLUENE-D8	True Value: 0.04 ppm	Limits: 90 - 115

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 2151305
Project: Former Photech Imaging Site
Collection Date: 10/7/2015
Analysis Date: 10/19/2015
Instrument ID: VOCMS30
Sample Numbers: L793892-09

Matrix: Water - mg/L
EPA ID: TN00003
Analytic Batch: WG822564
Analyst: 189

Surrogate Summary

			BFB		TFT		DFM		TD8	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L793892-09	VOCMS30	1019_30	0.0414	103	0.0441	110	0.0364	90.9	0.0405	101
LCS WG822564	VOCMS30	1019_04	0.0422	105	0.0444	111	0.0365	91.2	0.0411	103
LCSD WG822564	VOCMS30	1019_05	0.0419	105	0.0445	111	0.0374	93.4	0.0409	102
BLANK WG822564	VOCMS30	1019_10	0.0416	104	0.0445	111	0.0364	91.0	0.0405	101
MS WG822564	VOCMS30	1019_14	0.0415	104	0.0437	109	0.0377	94.2	0.0410	103
MSD WG822564	VOCMS30	1019_15	0.0416	104	0.0440	110	0.0367	91.8	0.0409	102

BFB --4-BROMOFLUOROBENZENE	True Value: 0.04 ppm	Limits: 80.1 - 120
TFT --A,A,A-TRIFLUOROTOLUENE	True Value: 0.04 ppm	Limits: 90.4 - 116
DFM --DIBROMOFLUOROMETHANE	True Value: 0.04 ppm	Limits: 79 - 121
TD8 --TOLUENE-D8	True Value: 0.04 ppm	Limits: 90 - 115

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 2151305
Project: Former Photech Imaging Site
Collection Date: 10/7/2015
Analysis Date: 10/18/2015
Instrument ID: VOCMS8
Sample Numbers: L793892-09

Matrix: Water - mg/L
EPA ID: TN00003
Analytic Batch: WG822800
Analyst: 522

Surrogate Summary

			BFB		TFT		DFM		TD8	
Laboratory Sample ID	Instrument	File ID	ppm	% Rec	ppm	% Rec	ppm	% Rec	ppm	% Rec
L793892-09	VOCMS8	1018_48	0.0409	102	0.0429	107	0.0397	99.2	0.0425	106
LCS WG822800	VOCMS8	1018_34	0.0411	103	0.0410	102	0.0399	99.7	0.0417	104
LCSD WG822800	VOCMS8	1018_35	0.0392	97.9	0.0419	105	0.0392	98.0	0.0422	105
BLANK WG822800	VOCMS8	1018_40	0.0403	101	0.0415	104	0.0380	94.9	0.0419	105
MS WG822800	VOCMS8	1018_41	0.0397	99.3	0.0405	101	0.0416	104	0.0425	106
MSD WG822800	VOCMS8	1018_42	0.0385	96.2	0.0403	101	0.0403	101	0.0414	104

BFB --4-BROMOFLUOROBENZENE — True Value: 0.04 ppm Limits: 80.1 - 120

TFT --A,A,A-TRIFLUOROTOLUENE — True Value: 0.04 ppm Limits: 90.4 - 116

DFM --DIBROMOFLUOROMETHANE — True Value: 0.04 ppm Limits: 79 - 121

TD8 --TOLUENE-D8 — True Value: 0.04 ppm Limits: 90 - 115

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: VOCMS25

Instrument Performance Summary

FileID: 1016_02.D Date: 10/16/2015 Time: 10:20 AM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	20.2
75	30 - 60% of mass 95	48.5
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.4
173	0 - 2% of mass 174	0
174	50 - 150% of mass 95	79.2
175	5 - 9% of mass 174	8.3
176	95 - 101% of mass 174	98.5
177	5 - 9% of mass 176	6.7

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG822246	LCS WG822246	1016_04.D	10/16/2015	11:06 AM
LCSD WG822246	LCSD WG822246	1016_05.D	10/16/2015	11:24 AM
Blank WG822246	Blank WG822246	1016_09.D	10/16/2015	12:37 PM
EQ BLANK	L793892-14	1016_10.D	10/16/2015	1:00 PM
TRIP BLANK	L793892-16	1016_11.D	10/16/2015	1:18 PM
RMW-7	L793892-06	1016_12.D	10/16/2015	1:36 PM
MS WG822246	MS WG822246	1016_13.D	10/16/2015	1:55 PM
MSD WG822246	MSD WG822246	1016_14.D	10/16/2015	2:13 PM
RMW-5	L793892-01	1016_17.D	10/16/2015	3:08 PM
RMW-6	L793892-02	1016_18.D	10/16/2015	3:26 PM
RMW-8	L793892-03	1016_19.D	10/16/2015	3:44 PM
RMW-9	L793892-04	1016_20.D	10/16/2015	4:02 PM
BLIND DUP	L793892-05	1016_21.D	10/16/2015	4:21 PM
RMW-4	L793892-07	1016_22.D	10/16/2015	4:39 PM
WELL-07	L793892-08	1016_23.D	10/16/2015	4:57 PM
WELL-09	L793892-10	1016_25.D	10/16/2015	5:34 PM
RMW-2	L793892-11	1016_26.D	10/16/2015	5:52 PM
RMW-1	L793892-12	1016_27.D	10/16/2015	6:10 PM
WELL-04	L793892-13	1016_28.D	10/16/2015	6:28 PM

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: VOCMS30

Instrument Performance Summary

FileID: 1019_02.D Date: 10/19/2015 Time: 4:19 AM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	15.5
75	30 - 60% of mass 95	44.2
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	7.1
173	0 - 2% of mass 174	0
174	50 - 150% of mass 95	76.6
175	5 - 9% of mass 174	7.6
176	95 - 101% of mass 174	95.4
177	5 - 9% of mass 176	7.1

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG822564	LCS WG822564	1019_04.D	10/19/2015	5:32 AM
LCSD WG822564	LCSD WG822564	1019_05.D	10/19/2015	5:54 AM
Blank WG822564	Blank WG822564	1019_10.D	10/19/2015	7:47 AM
MS WG822564	MS WG822564	1019_14.D	10/19/2015	9:18 AM
MSD WG822564	MSD WG822564	1019_15.D	10/19/2015	9:40 AM
RMW-3	L793892-09	1019_30.D	10/19/2015	3:19 PM

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Volatile Organic Compounds by Method 8260C
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: VOCMS8

Instrument Performance Summary

FileID: 1018_33.D Date: 10/18/2015 Time: 8:34 PM

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of mass 95	16.4
75	30 - 60% of mass 95	48.4
95	100 - 100% of mass 95	100
96	5 - 9% of mass 95	6.3
173	0 - 2% of mass 174	0
174	50 - 150% of mass 95	81.3
175	5 - 9% of mass 174	7.5
176	95 - 101% of mass 174	96
177	5 - 9% of mass 176	6.6

This Check applies to the following samples and quality control samples

Client Sample ID	Laboratory Sample ID	Lab Filename	Date Analyzed	Time Analyzed
LCS WG822800	LCS WG822800	1018_34.D	10/18/2015	9:04 PM
LCSD WG822800	LCSD WG822800	1018_35.D	10/18/2015	9:28 PM
Blank WG822800	Blank WG822800	1018_40.D	10/18/2015	11:27 PM
MS WG822800	MS WG822800	1018_41.D	10/18/2015	11:51 PM
MSD WG822800	MSD WG822800	1018_42.D	10/19/2015	12:15 AM
RMW-3	L793892-09	1018_48.D	10/19/2015	2:41 AM

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Method Blank (MB)

(MB) 10/15/15 16:06

Analyte	MB Result mg/l	MB Qualifier	MB RDL mg/l
Arsenic	ND		0.0100
Barium	ND		0.00500
Cadmium	ND		0.00200
Chromium	ND		0.0100
Lead	ND		0.00500
Selenium	ND		0.0100
Silver	ND		0.00500

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/15/15 16:09 • (LCSD) 10/15/15 16:12

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	1.00	1.00	0.980	100	98	80-120			2	20
Barium	1.00	0.984	0.966	98	97	80-120			2	20
Cadmium	1.00	1.01	0.989	101	99	80-120			2	20
Chromium	1.00	1.02	1.01	102	101	80-120			2	20
Lead	1.00	1.04	1.01	104	101	80-120			2	20
Selenium	1.00	1.04	1.03	104	103	80-120			1	20
Silver	1.00	1.03	1.01	103	101	80-120			2	20

L793892-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 10/15/15 16:15 • (MS) 10/15/15 16:21 • (MSD) 10/15/15 16:24

Analyte	Spike Amount mg/l	Original Result mg/l	MS Result mg/l	MSD Result mg/l	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	1.00	0.00603	1.04	1.03	104	102	1	75-125			1	20
Barium	1.00	0.0563	1.03	1.02	97	96	1	75-125			1	20
Cadmium	1.00	0.000308	1.03	1.02	103	102	1	75-125			1	20
Chromium	1.00	ND	1.03	1.00	103	100	1	75-125			3	20
Lead	1.00	0.00420	1.04	1.05	104	104	1	75-125			0	20
Selenium	1.00	ND	1.08	1.08	108	108	1	75-125			0	20
Silver	1.00	ND	1.05	1.02	105	102	1	75-125			3	20

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test:	Trace Metals by Method 6010C		
Project No:	2151305	Matrix:	Water - mg/L
Project:	Former Photech Imaging Site	EPA ID:	TN00003
Collection Date:	10/7/2015	**Analytic Batch:**	**WG821543**
Analysis Date:	10/15/2015	Analyst:	136
Instrument ID:	ICP13	Prep Date:	10/13/2015

Sample Numbers: L793892-01, -02, -03, -04, -05, -06, -08, -09, -10, -11, -12, -13, -14, -07

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
ICP13	Blank WG821543	Blank WG821543	101515ICP13(123)	10/15/2015	4:06 PM
ICP13	LCS WG821543	LCS WG821543	101515ICP13(124)	10/15/2015	4:09 PM
ICP13	LCSD WG821543	LCSD WG821543	101515ICP13(125)	10/15/2015	4:12 PM
ICP13	RMW-7	L793892-06	101515ICP13(126)	10/15/2015	4:15 PM
ICP13	DUP WG821543	DUP WG821543	101515ICP13(127)	10/15/2015	4:18 PM
ICP13	MS WG821543	MS WG821543	101515ICP13(128)	10/15/2015	4:21 PM
ICP13	MSD WG821543	MSD WG821543	101515ICP13(129)	10/15/2015	4:24 PM
ICP13	RMW-5	L793892-01	101515ICP13(130)	10/15/2015	4:27 PM
ICP13	RMW-6	L793892-02	101515ICP13(131)	10/15/2015	4:30 PM
ICP13	RMW-8	L793892-03	101515ICP13(132)	10/15/2015	4:33 PM
ICP13	RMW-9	L793892-04	101515ICP13(135)	10/15/2015	4:42 PM
ICP13	BLIND DUP	L793892-05	101515ICP13(136)	10/15/2015	4:45 PM
ICP13	WELL-07	L793892-08	101515ICP13(138)	10/15/2015	4:51 PM
ICP13	RMW-3	L793892-09	101515ICP13(139)	10/15/2015	4:54 PM
ICP13	WELL-09	L793892-10	101515ICP13(140)	10/15/2015	4:57 PM
ICP13	RMW-2	L793892-11	101515ICP13(141)	10/15/2015	5:01 PM
ICP13	RMW-1	L793892-12	101515ICP13(142)	10/15/2015	5:04 PM
ICP13	WELL-04	L793892-13	101515ICP13(143)	10/15/2015	5:07 PM
ICP13	EQ BLANK	L793892-14	101515ICP13(144)	10/15/2015	5:10 PM
ICP13	RMW-4	L793892-07	101915ICP13(48)	10/19/2015	11:05 AM

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: ICV
Analysis Date: 10/15/2015 10:02 AM
Analysis Time: 1002
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.992	1	99 %	90-110
Arsenic	0.986	1	99 %	90-110
Barium	1.01	1	101 %	90-110
Cadmium	0.984	1	98 %	90-110
Chromium	0.998	1	100 %	90-110
Lead	0.992	1	99 %	90-110
Selenium	1.00	1	100 %	90-110

Standard Type: ICVLL
Analysis Date: 10/15/2015 10:08 AM
Analysis Time: 1008
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.0047	0.0050	94.5%	50-150
Arsenic	0.0105	0.01	105%	50-150
Barium	0.0052	0.0050	104%	50-150
Cadmium	0.0019	0.0020	97.3%	50-150
Chromium	0.0099	0.01	98.6%	50-150
Lead	0.0060	0.0050	120%	50-150
Selenium	0.0095	0.01	94.9%	50-150

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/15/2015 10:37 AM
Analysis Time: 1037
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.992	1	99 %	90-110
Arsenic	2.03	2	102 %	90-110
Barium	0.507	0.5	101 %	90-110
Cadmium	0.511	0.5	102 %	90-110
Chromium	1.02	1	102 %	90-110
Lead	0.501	0.5	100 %	90-110
Selenium	2.08	2	104 %	90-110

Standard Type: CCVLL
Analysis Date: 10/15/2015 10:43 AM
Analysis Time: 1043
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.0053	0.0050	106%	50-150
Arsenic	0.0113	0.01	113%	50-150
Barium	0.0052	0.0050	103%	50-150
Cadmium	0.0020	0.0020	99.9%	50-150
Chromium	0.0098	0.01	98.5%	50-150
Lead	0.0064	0.0050	127%	50-150
Selenium	0.0091	0.01	91%	50-150

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/15/2015 4:00 PM
Analysis Time: 1600
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.990	1	99 %	90-110
Arsenic	1.99	2	99 %	90-110
Barium	0.484	0.5	97 %	90-110
Cadmium	0.497	0.5	99 %	90-110
Chromium	1.01	1	101 %	90-110
Lead	0.504	0.5	101 %	90-110
Selenium	2.03	2	101 %	90-110

Standard Type: CCV
Analysis Date: 10/15/2015 4:36 PM
Analysis Time: 1636
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.994	1	99 %	90-110
Arsenic	2.00	2	100 %	90-110
Barium	0.485	0.5	97 %	90-110
Cadmium	0.499	0.5	100 %	90-110
Chromium	1.03	1	103 %	90-110
Lead	0.510	0.5	102 %	90-110
Selenium	2.03	2	102 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCVLL
Analysis Date: 10/15/2015 5:40 PM
Analysis Time: 1740
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.0053	0.0050	106%	50-150
Arsenic	0.0110	0.01	110%	50-150
Barium	0.0053	0.0050	106%	50-150
Cadmium	0.0020	0.0020	101%	50-150
Chromium	0.0098	0.01	97.6%	50-150
Lead	0.0057	0.0050	114%	50-150
Selenium	0.0088	0.01	88.2%	50-150

Standard Type: CCV
Analysis Date: 10/15/2015 6:17 PM
Analysis Time: 1817
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.995	1	100 %	90-110
Arsenic	1.99	2	100 %	90-110
Barium	0.488	0.5	98 %	90-110
Cadmium	0.495	0.5	99 %	90-110
Chromium	1.04	1	104 %	90-110
Lead	0.513	0.5	103 %	90-110
Selenium	2.01	2	101 %	90-110

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Est. 1970

Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: ICV
Analysis Date: 10/19/2015 9:12 AM
Analysis Time: 0912
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.976	1	98 %	90-110
Arsenic	0.997	1	100 %	90-110
Barium	1.02	1	102 %	90-110
Cadmium	0.995	1	99 %	90-110
Chromium	0.993	1	99 %	90-110
Lead	0.985	1	98 %	90-110
Selenium	1.01	1	101 %	90-110

Standard Type: ICVLL
Analysis Date: 10/19/2015 9:19 AM
Analysis Time: 0919
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.0053	0.0050	107%	50-150
Arsenic	0.0086	0.01	86.1%	50-150
Barium	0.0052	0.0050	104%	50-150
Cadmium	0.0020	0.0020	101%	50-150
Chromium	0.0099	0.01	98.7%	50-150
Lead	0.0063	0.0050	125%	50-150
Selenium	0.0149	0.01	149%	50-150

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/19/2015 10:18 AM
Analysis Time: 1018
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.948	1	95 %	90-110
Arsenic	2.04	2	102 %	90-110
Barium	0.500	0.5	100 %	90-110
Cadmium	0.500	0.5	100 %	90-110
Chromium	0.983	1	98 %	90-110
Lead	0.488	0.5	98 %	90-110
Selenium	2.09	2	104 %	90-110

Standard Type: CCV
Analysis Date: 10/19/2015 10:53 AM
Analysis Time: 1053
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.936	1	94 %	90-110
Arsenic	2.04	2	102 %	90-110
Barium	0.496	0.5	99 %	90-110
Cadmium	0.497	0.5	99 %	90-110
Chromium	0.969	1	97 %	90-110
Lead	0.481	0.5	96 %	90-110
Selenium	2.08	2	104 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site
EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/19/2015 11:08 AM
Analysis Time: 1108
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.932	1	93 %	90-110
Arsenic	2.06	2	103 %	90-110
Barium	0.500	0.5	100 %	90-110
Cadmium	0.499	0.5	100 %	90-110
Chromium	0.969	1	97 %	90-110
Lead	0.477	0.5	95 %	90-110
Selenium	2.11	2	105 %	90-110

Standard Type: CCV
Analysis Date: 10/19/2015 11:44 AM
Analysis Time: 1144
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.925	1	93 %	90-110
Arsenic	2.07	2	103 %	90-110
Barium	0.501	0.5	100 %	90-110
Cadmium	0.499	0.5	100 %	90-110
Chromium	0.955	1	95 %	90-110
Lead	0.472	0.5	94 %	90-110
Selenium	2.10	2	105 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCV
Analysis Date: 10/19/2015 2:19 PM
Analysis Time: 1419
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.928	1	93 %	90-110
Arsenic	2.01	2	101 %	90-110
Barium	0.494	0.5	99 %	90-110
Cadmium	0.499	0.5	100 %	90-110
Chromium	0.940	1	94 %	90-110
Lead	0.465	0.5	93 %	90-110
Selenium	2.07	2	104 %	90-110

Standard Type: CCVLL
Analysis Date: 10/19/2015 2:25 PM
Analysis Time: 1425
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
Silver	0.0051	0.0050	103%	50-150
Arsenic	0.0070	0.01	70.3%	50-150
Barium	0.0051	0.0050	102%	50-150
Cadmium	0.0019	0.0020	96%	50-150
Chromium	0.0091	0.01	91.4%	50-150
Lead	0.0049	0.0050	98.3%	50-150
Selenium	0.0140	0.01	140%	50-150

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: ICB
Analysis Date: 10/15/2015 10:05 AM
Analysis Time: 1005
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.005	< 0.005	101515ICP13
Arsenic	0.01	< 0.01	101515ICP13
Barium	0.005	< 0.005	101515ICP13
Cadmium	0.002	< 0.002	101515ICP13
Chromium	0.01	< 0.01	101515ICP13
Lead	0.005	< 0.005	101515ICP13
Selenium	0.01	< 0.01	101515ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 10:40 AM
Analysis Time: 1040
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 4:03 PM
Analysis Time: 1603
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 4:39 PM
Analysis Time: 1639
Data File: 101515ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101515ICP13
Arsenic	0.0065	< 0.0065	101515ICP13
Barium	0.0017	< 0.0017	101515ICP13
Cadmium	0.0007	< 0.0007	101515ICP13
Chromium	0.0014	< 0.0014	101515ICP13
Lead	0.0019	< 0.0019	101515ICP13
Selenium	0.0074	< 0.0074	101515ICP13

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Quality Control Summary
SDG: L793892
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Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 5:16 PM
Analysis Time: 1716
Data File: 101515ICP13

Analyte	RDL	Conc		Filename
Silver	0.0028	< 0.0028		101515ICP13
Arsenic	0.0065	< 0.0065		101515ICP13
Barium	0.0017	< 0.0017		101515ICP13
Cadmium	0.0007	< 0.0007		101515ICP13
Chromium	0.0014	< 0.0014		101515ICP13
Lead	0.0019	< 0.0019		101515ICP13
Selenium	0.0074	< 0.0074		101515ICP13

Standard Type: CCB
Analysis Date: 10/15/2015 5:37 PM
Analysis Time: 1737
Data File: 101515ICP13

Analyte	RDL	Conc		Filename
Silver	0.0028	< 0.0028		101515ICP13
Arsenic	0.0065	< 0.0065		101515ICP13
Barium	0.0017	< 0.0017		101515ICP13
Cadmium	0.0007	< 0.0007		101515ICP13
Chromium	0.0014	< 0.0014		101515ICP13
Lead	0.0019	0.00204	B	101515ICP13
Selenium	0.0074	< 0.0074		101515ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: ICB
Analysis Date: 10/19/2015 9:15 AM
Analysis Time: 0915
Data File: 101915ICP13

Analyte	RDL	Conc	Filename
Silver	0.005	< 0.005	101915ICP13
Arsenic	0.01	< 0.01	101915ICP13
Barium	0.005	< 0.005	101915ICP13
Cadmium	0.002	< 0.002	101915ICP13
Chromium	0.01	< 0.01	101915ICP13
Lead	0.005	< 0.005	101915ICP13
Selenium	0.01	< 0.01	101915ICP13

Standard Type: CCB
Analysis Date: 10/19/2015 10:21 AM
Analysis Time: 1021
Data File: 101915ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101915ICP13
Arsenic	0.0065	< 0.0065	101915ICP13
Barium	0.0017	< 0.0017	101915ICP13
Cadmium	0.0007	< 0.0007	101915ICP13
Chromium	0.0014	< 0.0014	101915ICP13
Lead	0.0019	< 0.0019	101915ICP13
Selenium	0.0074	< 0.0074	101915ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type: CCB
Analysis Date: 10/19/2015 10:56 AM
Analysis Time: 1056
Data File: 101915ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101915ICP13
Arsenic	0.0065	< 0.0065	101915ICP13
Barium	0.0017	< 0.0017	101915ICP13
Cadmium	0.0007	< 0.0007	101915ICP13
Chromium	0.0014	< 0.0014	101915ICP13
Lead	0.0019	< 0.0019	101915ICP13
Selenium	0.0074	< 0.0074	101915ICP13

Standard Type: CCB
Analysis Date: 10/19/2015 11:11 AM
Analysis Time: 1111
Data File: 101915ICP13

Analyte	RDL	Conc	Filename
Silver	0.0028	< 0.0028	101915ICP13
Arsenic	0.0065	< 0.0065	101915ICP13
Barium	0.0017	< 0.0017	101915ICP13
Cadmium	0.0007	< 0.0007	101915ICP13
Chromium	0.0014	< 0.0014	101915ICP13
Lead	0.0019	< 0.0019	101915ICP13
Selenium	0.0074	< 0.0074	101915ICP13

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type : ICSA
Analysis Date: 10/15/2015 10:18 AM
Analysis Time: 1018
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0004	0		80 - 120
ALUMINUM	499	500	100 %	80 - 120
ARSENIC	-0.0126	0		80 - 120
BORON	-0.0005	0		80 - 120
BARIUM	0.0028	0		80 - 120
BERYLLIUM	0.0000	0		80 - 120
CALCIUM	504	500	101 %	80 - 120
CADMIUM	0.0009	0		80 - 120
COBALT	-0.0008	0		80 - 120
CHROMIUM	0.0010	0		80 - 120
COPPER	0.0050	0		80 - 120
IRON	196	200	98 %	80 - 120
POTASSIUM	0.0507	0		80 - 120
LITHIUM	0.0156	0		80 - 120
MAGNESIUM	501	500	100 %	80 - 120
MANGANESE	0.0039	0		80 - 120
MOLYBDENUM	0.0014	0		80 - 120
SODIUM	0.190	0		80 - 120
NICKEL	0.0115	0		80 - 120
LEAD	-0.0182	0		80 - 120
SULFUR	0.0066	0		80 - 120
ANTIMONY	0.0089	0		80 - 120
SELENIUM	0.0194	0		80 - 120
SILICON	-0.0074	0		80 - 120
TIN	0.0005	0		80 - 120
STRONTIUM	0.0062	0		80 - 120
TITANIUM	0.0242	0		80 - 120
THALLIUM	-0.0069	0		80 - 120
VANADIUM	0.0091	0		80 - 120
ZINC	0.0059	0		80 - 120

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type : ICSAB
Analysis Date: 10/15/2015 10:21 AM
Analysis Time: 1021
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.11	1.00	111 %	80 - 120
ALUMINUM	502	500	100 %	80 - 120
ARSENIC	0.505	0.500	101 %	80 - 120
BORON	0.997	1.00	100 %	80 - 120
BARIUM	0.493	0.500	99 %	80 - 120
BERYLLIUM	0.496	0.500	99 %	80 - 120
CALCIUM	503	500	101 %	80 - 120
CADMIUM	1.04	1.00	104 %	80 - 120
COBALT	0.521	0.500	104 %	80 - 120
CHROMIUM	0.479	0.500	96 %	80 - 120
COPPER	0.499	0.500	100 %	80 - 120
IRON	198	200	99 %	80 - 120
POTASSIUM	0.106	0		80 - 120
LITHIUM	0.0143	0		80 - 120
MAGNESIUM	500	500	100 %	80 - 120
MANGANESE	0.483	0.500	97 %	80 - 120
MOLYBDENUM	0.501	0.500	100 %	80 - 120
SODIUM	0.192	0		80 - 120
NICKEL	1.04	1.00	104 %	80 - 120
LEAD	0.983	1.00	98 %	80 - 120
SULFUR	0.0080	0		80 - 120
ANTIMONY	0.524	0.500	105 %	80 - 120
SELENIUM	0.547	0.500	109 %	80 - 120
SILICON	0.964	1.00	96 %	80 - 120
TIN	0.440	0.500	88 %	80 - 120
STRONTIUM	0.0064	0		80 - 120
TITANIUM	0.514	0.500	103 %	80 - 120
THALLIUM	0.462	0.500	92 %	80 - 120
VANADIUM	0.495	0.500	99 %	80 - 120
ZINC	0.941	1.00	94 %	80 - 120

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type : ICSA
Analysis Date: 10/15/2015 7:33 PM
Analysis Time: 1933
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
SILVER	-0.0011	0		80 - 120
ALUMINUM	477	500	95 %	80 - 120
ARSENIC	-0.0139	0		80 - 120
BORON	-0.0084	0		80 - 120
BARIUM	0.0027	0		80 - 120
BERYLLIUM	0.0000	0		80 - 120
CALCIUM	523	500	105 %	80 - 120
CADMIUM	0.0008	0		80 - 120
COBALT	-0.0007	0		80 - 120
CHROMIUM	0.0012	0		80 - 120
COPPER	0.0014	0		80 - 120
IRON	189	200	94 %	80 - 120
POTASSIUM	0.428	0		80 - 120
LITHIUM	0.0172	0		80 - 120
MAGNESIUM	487	500	97 %	80 - 120
MANGANESE	0.0042	0		80 - 120
MOLYBDENUM	0.0006	0		80 - 120
SODIUM	0.280	0		80 - 120
NICKEL	0.0105	0		80 - 120
LEAD	-0.0337	0		80 - 120
SULFUR	0.0142	0		80 - 120
ANTIMONY	0.0089	0		80 - 120
SELENIUM	0.0119	0		80 - 120
SILICON	-0.0056	0		80 - 120
TIN	0.0009	0		80 - 120
STRONTIUM	0.0065	0		80 - 120
TITANIUM	0.0263	0		80 - 120
THALLIUM	-0.0087	0		80 - 120
VANADIUM	0.0090	0		80 - 120
ZINC	0.0065	0		80 - 120

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type : ICSAB
Analysis Date: 10/15/2015 7:36 PM
Analysis Time: 1936
Data File: 101515ICP13

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.11	1.00	111 %	80 - 120
ALUMINUM	483	500	97 %	80 - 120
ARSENIC	0.495	0.500	99 %	80 - 120
BORON	0.931	1.00	93 %	80 - 120
BARIUM	0.479	0.500	96 %	80 - 120
BERYLLIUM	0.479	0.500	96 %	80 - 120
CALCIUM	528	500	106 %	80 - 120
CADMIUM	1.02	1.00	102 %	80 - 120
COBALT	0.527	0.500	105 %	80 - 120
CHROMIUM	0.494	0.500	99 %	80 - 120
COPPER	0.490	0.500	98 %	80 - 120
IRON	192	200	96 %	80 - 120
POTASSIUM	0.516	0		80 - 120
LITHIUM	0.0165	0		80 - 120
MAGNESIUM	495	500	99 %	80 - 120
MANGANESE	0.495	0.500	99 %	80 - 120
MOLYBDENUM	0.458	0.500	92 %	80 - 120
SODIUM	0.302	0		80 - 120
NICKEL	1.06	1.00	106 %	80 - 120
LEAD	1.00	1.00	100 %	80 - 120
SULFUR	0.0214	0		80 - 120
ANTIMONY	0.502	0.500	100 %	80 - 120
SELENIUM	0.527	0.500	105 %	80 - 120
SILICON	0.968	1.00	97 %	80 - 120
TIN	0.453	0.500	91 %	80 - 120
STRONTIUM	0.0065	0		80 - 120
TITANIUM	0.518	0.500	104 %	80 - 120
THALLIUM	0.477	0.500	95 %	80 - 120
VANADIUM	0.471	0.500	94 %	80 - 120
ZINC	0.971	1.00	97 %	80 - 120

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SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type : ICSA
Analysis Date: 10/19/2015 9:22 AM
Analysis Time: 0922
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
SILVER	0.0003	0		80 - 120
ALUMINUM	502	500	100 %	80 - 120
ARSENIC	-0.0129	0		80 - 120
BORON	0.0002	0		80 - 120
BARIUM	0.0028	0		80 - 120
BERYLLIUM	0.0001	0		80 - 120
CALCIUM	492	500	98 %	80 - 120
CADMIUM	0.0007	0		80 - 120
COBALT	-0.0007	0		80 - 120
CHROMIUM	0.0017	0		80 - 120
COPPER	0.0082	0		80 - 120
IRON	195	200	98 %	80 - 120
POTASSIUM	0.0550	0		80 - 120
LITHIUM	0.0175	0		80 - 120
MAGNESIUM	480	0		80 - 120
MANGANESE	0.0038	0		80 - 120
MOLYBDENUM	0.0000	0		80 - 120
SODIUM	0.212	0		80 - 120
NICKEL	0.0116	0		80 - 120
LEAD	-0.0287	0		80 - 120
SULFUR	0.0096	0		80 - 120
ANTIMONY	0.0100	0		80 - 120
SELENIUM	0.0108	0		80 - 120
SILICON	-0.0045	0		80 - 120
TIN	0.0000	0		80 - 120
STRONTIUM	0.0061	0		80 - 120
TITANIUM	0.0214	0		80 - 120
THALLIUM	-0.0072	0		80 - 120
VANADIUM	0.0068	0		80 - 120
ZINC	0.0098	0		80 - 120

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type : ICSAB
Analysis Date: 10/19/2015 9:25 AM
Analysis Time: 0925
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.05	1.00	105 %	80 - 120
ALUMINUM	491	500	98 %	80 - 120
ARSENIC	0.483	0.500	97 %	80 - 120
BORON	0.925	1.00	92 %	80 - 120
BARIUM	0.468	0.500	94 %	80 - 120
BERYLLIUM	0.474	0.500	95 %	80 - 120
CALCIUM	480	500	96 %	80 - 120
CADMIUM	0.996	1.00	100 %	80 - 120
COBALT	0.491	0.500	98 %	80 - 120
CHROMIUM	0.445	0.500	89 %	80 - 120
COPPER	0.476	0.500	95 %	80 - 120
IRON	190	200	95 %	80 - 120
POTASSIUM	0.0300	0		80 - 120
LITHIUM	0.0188	0		80 - 120
MAGNESIUM	467	500	93 %	80 - 120
MANGANESE	0.453	0.500	91 %	80 - 120
MOLYBDENUM	0.458	0.500	92 %	80 - 120
SODIUM	0.201	0		80 - 120
NICKEL	0.987	1.00	99 %	80 - 120
LEAD	0.926	1.00	93 %	80 - 120
SULFUR	0.0084	0		80 - 120
ANTIMONY	0.496	0.500	99 %	80 - 120
SELENIUM	0.513	0.500	103 %	80 - 120
SILICON	0.898	1.00	90 %	80 - 120
TIN	0.416	0.500	83 %	80 - 120
STRONTIUM	0.0062	0		80 - 120
TITANIUM	0.487	0.500	97 %	80 - 120
THALLIUM	0.443	0.500	89 %	80 - 120
VANADIUM	0.460	0.500	92 %	80 - 120
ZINC	0.880	1.00	88 %	80 - 120

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type : ICSA
Analysis Date: 10/19/2015 3:04 PM
Analysis Time: 1504
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
SILVER	0.0000	0		80 - 120
ALUMINUM	478	500	96 %	80 - 120
ARSENIC	-0.0121	0		80 - 120
BORON	0.0055	0		80 - 120
BARIUM	0.0027	0		80 - 120
BERYLLIUM	0.0001	0		80 - 120
CALCIUM	464	500	93 %	80 - 120
CADMIUM	0.0008	0		80 - 120
COBALT	-0.0010	0		80 - 120
CHROMIUM	0.0012	0		80 - 120
COPPER	0.0056	0		80 - 120
IRON	184	200	92 %	80 - 120
POTASSIUM	-0.0127	0		80 - 120
LITHIUM	0.0163	0		80 - 120
MAGNESIUM	437	500	87 %	80 - 120
MANGANESE	0.0036	0		80 - 120
MOLYBDENUM	0.0008	0		80 - 120
SODIUM	0.196	0		80 - 120
NICKEL	0.0128	0		80 - 120
LEAD	-0.0242	0		80 - 120
SULFUR	0.0093	0		80 - 120
ANTIMONY	0.0144	0		80 - 120
SELENIUM	0.0154	0		80 - 120
SILICON	-0.0051	0		80 - 120
TIN	0.0002	0		80 - 120
STRONTIUM	0.0063	0		80 - 120
TITANIUM	0.0224	0		80 - 120
THALLIUM	-0.0058	0		80 - 120
VANADIUM	0.0007	0		80 - 120
ZINC	0.0100	0		80 - 120

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Trace Metals by Method 6010B
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: ICP13

Standard Type : ICSAB
Analysis Date: 10/19/2015 3:07 PM
Analysis Time: 1507
Data File: 101915ICP13

Analyte	Conc.	True Value	Recovery	Limits
SILVER	1.02	1.00	102 %	80 - 120
ALUMINUM	467	500	93 %	80 - 120
ARSENIC	0.489	0.500	98 %	80 - 120
BORON	0.881	1.00	88 %	80 - 120
BARIUM	0.472	0.500	94 %	80 - 120
BERYLLIUM	0.463	0.500	93 %	80 - 120
CALCIUM	457	500	91 %	80 - 120
CADMIUM	0.980	1.00	98 %	80 - 120
COBALT	0.473	0.500	95 %	80 - 120
CHROMIUM	0.415	0.500	83 %	80 - 120
COPPER	0.466	0.500	93 %	80 - 120
IRON	182	200	91 %	80 - 120
POTASSIUM	-0.0040	0		80 - 120
LITHIUM	0.0153	0		80 - 120
MAGNESIUM	427	500	85 %	80 - 120
MANGANESE	0.453	0.500	91 %	80 - 120
MOLYBDENUM	0.458	0.500	92 %	80 - 120
SODIUM	0.183	0		80 - 120
NICKEL	0.944	1.00	94 %	80 - 120
LEAD	0.879	1.00	88 %	80 - 120
SULFUR	0.0090	0		80 - 120
ANTIMONY	0.501	0.500	100 %	80 - 120
SELENIUM	0.516	0.500	103 %	80 - 120
SILICON	0.888	1.00	89 %	80 - 120
TIN	0.406	0.500	81 %	80 - 120
STRONTIUM	0.0063	0		80 - 120
TITANIUM	0.469	0.500	94 %	80 - 120
THALLIUM	0.430	0.500	86 %	80 - 120
VANADIUM	0.444	0.500	89 %	80 - 120
ZINC	0.856	1.00	86 %	80 - 120

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Method Blank (MB)

(MB) 10/15/15 09:28

Analyte	MB Result	MB Qualifier	MB RDL
	mg/l		mg/l
Mercury	ND		0.000200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/15/15 09:31 • (LCSD) 10/15/15 09:33

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Mercury	0.00300	0.00302	0.00243	101	81	80-120		J3	22	20

L793892-06 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 10/15/15 09:35 • (MS) 10/15/15 09:37 • (MSD) 10/15/15 09:44

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Mercury	0.00300	ND	0.00293	0.00260	98	87	1	75-125			12	20

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test:	Mercury by Method 7470A		
Project No:	2151305	Matrix:	Water - ug/L
Project:	Former Photech Imaging Site	EPA ID:	TN00003
Collection Date:	10/7/2015	**Analytic Batch:**	**WG821311**
Analysis Date:	10/14/2015 8:49:00 AM	Analyst:	628
Instrument ID:	CVAA5	Prep Date:	10/12/2015

Sample Numbers: L793892-01, -02, -03, -04, -05, -07, -08, -09, -10, -11, -12, -13, -14

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
CVAA5	Blank WG821311	Blank WG821311	101415CVAA5 W(56)	10/14/2015	8:27 AM
CVAA5	LCS WG821311	LCS WG821311	101415CVAA5 W(57)	10/14/2015	8:29 AM
CVAA5	LCSD WG821311	LCSD WG821311	101415CVAA5 W(58)	10/14/2015	8:32 AM
CVAA5	MS WG821311	MS WG821311	101415CVAA5 W(62)	10/14/2015	8:41 AM
CVAA5	MSD WG821311	MSD WG821311	101415CVAA5 W(63)	10/14/2015	8:43 AM
CVAA5	RMW-5	L793892-01	101415CVAA5 W(66)	10/14/2015	8:49 AM
CVAA5	RMW-6	L793892-02	101415CVAA5 W(67)	10/14/2015	8:52 AM
CVAA5	RMW-8	L793892-03	101415CVAA5 W(68)	10/14/2015	8:54 AM
CVAA5	RMW-9	L793892-04	101415CVAA5 W(69)	10/14/2015	8:56 AM
CVAA5	BLIND DUP	L793892-05	101415CVAA5 W(70)	10/14/2015	8:58 AM
CVAA5	RMW-4	L793892-07	101415CVAA5 W(73)	10/14/2015	9:05 AM
CVAA5	WELL-07	L793892-08	101415CVAA5 W(74)	10/14/2015	9:07 AM
CVAA5	RMW-3	L793892-09	101415CVAA5 W(75)	10/14/2015	9:09 AM
CVAA5	WELL-09	L793892-10	101415CVAA5 W(76)	10/14/2015	9:12 AM
CVAA5	RMW-2	L793892-11	101415CVAA5 W(77)	10/14/2015	9:14 AM
CVAA5	RMW-1	L793892-12	101415CVAA5 W(78)	10/14/2015	9:16 AM
CVAA5	WELL-04	L793892-13	101415CVAA5 W(79)	10/14/2015	9:18 AM
CVAA5	EQ BLANK	L793892-14	101415CVAA5 W(80)	10/14/2015	9:20 AM

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test:	Mercury by Method 7470A		
Project No:	2151305	Matrix:	Water - ug/L
Project:	Former Photech Imaging Site	EPA ID:	TN00003
Collection Date:	10/7/2015	**Analytic Batch:**	**WG821837**
Analysis Date:	10/15/2015 9:35:00 AM	Analyst:	628
Instrument ID:	CVAA5	Prep Date:	10/14/2015
Sample Numbers:	L793892-06		

Method Blank Summary

Instrument	Client Sample ID	Lab Sample ID	File Name	Analysis Date	Analysis Time
CVAA5	Blank WG821837	Blank WG821837	101515CVAA5 W(62)	10/15/2015	9:28 AM
CVAA5	LCS WG821837	LCS WG821837	101515CVAA5 W(63)	10/15/2015	9:31 AM
CVAA5	LCSD WG821837	LCSD WG821837	101515CVAA5 W(64)	10/15/2015	9:33 AM
CVAA5	RMW-7	L793892-06	101515CVAA5 W(65)	10/15/2015	9:35 AM
CVAA5	MS WG821837	MS WG821837	101515CVAA5 W(66)	10/15/2015	9:37 AM
CVAA5	MSD WG821837	MSD WG821837	101515CVAA5 W(69)	10/15/2015	9:44 AM

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Mercury by CVAA
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: CVAA5

Standard Type: ICV
Analysis Date: 10/14/2015 6:46 AM
Analysis Time: 0646
Data File: 101415CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0029	0.003	97 %	90-110

Standard Type: ICVLL
Analysis Date: 10/14/2015 6:50 AM
Analysis Time: 0650
Data File: 101415CVAA5 W

Analyte	Conc.
Mercury	0.0002

Standard Type: CCV
Analysis Date: 10/14/2015 7:14 AM
Analysis Time: 0714
Data File: 101415CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0024	0.0025	94 %	90-110

Standard Type: CCV
Analysis Date: 10/14/2015 7:41 AM
Analysis Time: 0741
Data File: 101415CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0023	0.0025	92 %	90-110

*** - calibrated by linear regression*

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Mercury by CVAA
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: CVAA5

Standard Type: CCV
Analysis Date: 10/14/2015 8:07 AM
Analysis Time: 0807
Data File: 101415CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0023	0.0025	92 %	90-110

Standard Type: CCV
Analysis Date: 10/14/2015 8:34 AM
Analysis Time: 0834
Data File: 101415CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0023	0.0025	93 %	90-110

Standard Type: CCV
Analysis Date: 10/14/2015 9:01 AM
Analysis Time: 0901
Data File: 101415CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0023	0.0025	93 %	90-110

Standard Type: CCV
Analysis Date: 10/14/2015 9:23 AM
Analysis Time: 0923
Data File: 101415CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0023	0.0025	93 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Mercury by CVAA
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: CVAA5

Standard Type: ICV
Analysis Date: 10/15/2015 7:51 AM
Analysis Time: 0751
Data File: 101515CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0031	0.003	102 %	90-110

Standard Type: ICVLL
Analysis Date: 10/15/2015 7:55 AM
Analysis Time: 0755
Data File: 101515CVAA5 W

Analyte	Conc.
Mercury	0.0002

Standard Type: CCV
Analysis Date: 10/15/2015 8:20 AM
Analysis Time: 0820
Data File: 101515CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0025	0.0025	100 %	90-110

Standard Type: CCV
Analysis Date: 10/15/2015 8:46 AM
Analysis Time: 0846
Data File: 101515CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0025	0.0025	100 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Mercury by CVAA
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: CVAA5

Standard Type: CCV
Analysis Date: 10/15/2015 9:13 AM
Analysis Time: 0913
Data File: 101515CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0025	0.0025	100 %	90-110

Standard Type: CCV
Analysis Date: 10/15/2015 9:40 AM
Analysis Time: 0940
Data File: 101515CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0024	0.0025	97 %	90-110

Standard Type: CCV
Analysis Date: 10/15/2015 10:06 AM
Analysis Time: 1006
Data File: 101515CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0025	0.0025	99 %	90-110

Standard Type: CCV
Analysis Date: 10/15/2015 11:34 AM
Analysis Time: 1134
Data File: 101515CVAA5 W

Analyte	Conc.	True Value	Recovery	Limits
Mercury	0.0025	0.0025	98 %	90-110

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Mercury by CVAA
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: CVAA5

Standard Type: ICB
Analysis Date: 10/14/2015 6:48 AM
Analysis Time: 0648
Data File: 101415CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	0.0002	< 0.0002	101415CVAA5

Standard Type: CCB
Analysis Date: 10/14/2015 7:17 AM
Analysis Time: 0717
Data File: 101415CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	101415CVAA5

Standard Type: CCB
Analysis Date: 10/14/2015 7:43 AM
Analysis Time: 0743
Data File: 101415CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	101415CVAA5

Standard Type: CCB
Analysis Date: 10/14/2015 8:10 AM
Analysis Time: 0810
Data File: 101415CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	101415CVAA5

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Mercury by CVAA
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: CVAA5

Standard Type: CCB
Analysis Date: 10/14/2015 8:36 AM
Analysis Time: 0836
Data File: 101415CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	101415CVAA5

Standard Type: CCB
Analysis Date: 10/14/2015 9:03 AM
Analysis Time: 0903
Data File: 101415CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	101415CVAA5

Standard Type: CCB
Analysis Date: 10/14/2015 9:25 AM
Analysis Time: 0925
Data File: 101415CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	101415CVAA5

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Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Mercury by CVAA
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: CVAA5

Standard Type: ICB
Analysis Date: 10/15/2015 7:53 AM
Analysis Time: 0753
Data File: 101515CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	0.0002	< 0.0002 ✓	101515CVAA5

Standard Type: CCB
Analysis Date: 10/15/2015 8:22 AM
Analysis Time: 0822
Data File: 101515CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05 ✓	101515CVAA5

Standard Type: CCB
Analysis Date: 10/15/2015 8:48 AM
Analysis Time: 0848
Data File: 101515CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05 ✓	101515CVAA5

Standard Type: CCB
Analysis Date: 10/15/2015 9:15 AM
Analysis Time: 0915
Data File: 101515CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05 ✓	101515CVAA5

*** - calibrated by linear regression*

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(615) 758-5858
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Est. 1970

Quality Control Summary
SDG: L793892
LaBella Associates, P.C.

Test: Mercury by CVAA
Project No: 2151305
Project: Former Photech Imaging Site EPA ID: TN00003
Collection Date: 10/7/2015
Instrument ID: CVAA5

Standard Type: CCB
Analysis Date: 10/15/2015 9:42 AM
Analysis Time: 0942
Data File: 101515CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	101515CVAA5

Standard Type: CCB
Analysis Date: 10/15/2015 10:08 AM
Analysis Time: 1008
Data File: 101515CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	101515CVAA5

Standard Type: CCB
Analysis Date: 10/15/2015 11:36 AM
Analysis Time: 1136
Data File: 101515CVAA5 W

Analyte	RDL	Conc	Filename
Mercury	4.9E-05	< 4.9E-05	101515CVAA5

*** - calibrated by linear regression*

Method Blank (MB)

(MB) 10/14/15 08:27

Analyte	MB Result	MB Qualifier	MB RDL
	mg/l		mg/l
Mercury	ND		0.000200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) 10/14/15 08:29 • (LCSD) 10/14/15 08:32

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Mercury	0.00300	0.00282	0.00266	94	89	80-120			6	20

L793873-11 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) 10/14/15 08:38 • (MS) 10/14/15 08:41 • (MSD) 10/14/15 08:43

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	mg/l	%	%		%			%	%
Mercury	0.00300	0.0000259	0.00283	0.00281	93	93	1	75-125			1	20

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX 3

LABELLA Associates, P.C.
300 State Street
Rochester, New York 14614
Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: RMW-5

Project Name: Former Photech Imaging Site Groundwater Monitoring
Location: 1000 Driving Park Avenue, City of Rochester, Monroe County, New York
Project No.: 2151305
Sampled By: N. Inzinna
Date: 10/7/2015
Weather: 60 degrees F, Cloudy

WELL SAMPLING INFORMATION

Well Diameter:	2 inch	Static Water Level:	9.34 feet
Depth of Well:	15.7 feet	Length of Well Screen:	5 feet
Measuring Point:	Top of PVC	Depth to Top of Pump:	14 feet
Pump Type:	Geopump2 – Bladder Pump	Tubing Type:	0.25-inch O.D.

FIELD PARAMETER MEASUREMENT

Time	Avg Pump Rate (ml/min)	Liters Purged (Approx.)	pH +/- 0.1	Temp °C	Conductivity (µS/cm) +/- 3%	Turbidity (NTU)	Dissolved O_2 (mg/L) + 10%	Redox (mV) +/- 10 mV	Depth to Water (ft)	Comments
0945	400	-	6.40	16.4	3.69	32.1	4.11	173.1	9.34	
0950	400	2	6.62	16.7	3.64	25.7	1.89	162.4	10.20	
0955	400	4	6.66	17.1	3.66	18.4	1.15	157.2	11.05	
1000	400	6	3.71	16.9	3.61	32.9	1.14	149.0	11.13	
1005	400	8	6.72	16.8	3.55	28.7	1.15	145.0	11.25	
1010	400	10	6.72	16.7	3.48	22.2	1.08	143.2	11.41	
										Sample collected @ 1014

Total 2.5 Gallons Purged

Purge Time Start: 0945 Purge Time End: 1010 Final Static Water Level: 11.41

OBSERVATIONS

Notes: None

LABELLA Associates, P.C.
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WELL I.D.: RMW-6

Project Name: Former Photech Imaging Site Groundwater Monitoring
Location: 1000 Driving Park Avenue, City of Rochester, Monroe County, New York
Project No.: 2151305
Sampled By: N. Inzinna
Date: 10/7/2015
Weather: 65 degrees F, partly cloudy

WELL SAMPLING INFORMATION

Well Diameter: 2 inch
Depth of Well: 20 feet
Measuring Point: Top of PVC
Pump Type: Geopump2 – Bladder Pump
Static Water Level: 11.90 feet
Length of Well Screen: 5 feet
Depth to Top of Pump: 17 feet
Tubing Type: 0.25-inch O.D.

FIELD PARAMETER MEASUREMENT

Time	Avg Pump Rate (ml/min)	Liters Purged (Approx.)	pH +/- 0.1	Temp °C	Conductivity (µS/cm) +/- 3%	Turbidity (NTU)	Dissolved O_2 (mg/L) + 10%	Redox (mV) +/- 10 mV	Depth to Water (ft)	Comments
1102	220	-	7.00	15.9	2.02	79.1	1.21	167.1	12.31	
1107	220	1.1	6.91	16.7	1.85	63.7	0.43	148.2	12.84	
1112	220	2.2	6.89	17.2	1.94	57.1	1.57	131.2	13.61	
1117	220	3.3	6.88	17.1	1.93	88.2	1.21	122.1	14.05	Fill rate slowed, turbidity increased
1122	220	4.4	6.89	16.9	1.91	36.0	1.01	114.0	14.15	
1127	220	5.5	6.89	16.6	1.89	20	0.57	98.2	14.31	
1132	220	6.6	6.89	16.5	1.88	44	0.45	86.7	14.40	
1137	220	7.7	6.90	16.3	1.86	67	0.31	69.4	14.45	
1142	220	8.8	6.91	16.4	1.85	74.7	0.27	64.2	14.31	
1147	220	9.9	6.92	16.3	1.85	71.2	0.34	60.1	14.34	
1152	220	11	6.93	16.4	1.86	54.1	0.41	61.2	14.37	
1157	220	12.1	6.94	16.5	1.87	47	0.50	65.0	14.38	
1202	220	13.2	6.94	16.5	1.86	43	0.54	64.2	14.40	
										Sample Collected @ 1205

Total 3.5 Gallons Purged

Purge Time Start: 1102 Purge Time End: 1202 Final Static Water Level: 14.40

OBSERVATIONS

Notes: Turbidity began increasing around 1132, further slowed pumping rate and collected additional readings before sample collection

LABELLA Associates, P.C.
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WELL I.D.: RMW-8

Project Name: Former Photech Imaging Site Groundwater Monitoring
Location: 1000 Driving Park Avenue, City of Rochester, Monroe County, New York
Project No.: 2151305
Sampled By: N. Inzinna
Date: 10/7/2015
Weather: 65 degrees F, mostly sunny

WELL SAMPLING INFORMATION

Well Diameter:	2 inch	Static Water Level:	8.75 feet
Depth of Well:	17 feet	Length of Well Screen:	5 feet
Measuring Point:	Top of PVC	Depth to Top of Pump:	15 feet
Pump Type:	Geopump2 – Bladder Pump	Tubing Type:	0.25-inch O.D.

FIELD PARAMETER MEASUREMENT

Time	Avg Pump Rate (ml/min)	Liters Purged (Approx.)	pH +/- 0.1	Temp °C	Conductivity (µS/cm) +/- 3%	Turbidity (NTU)	Dissolved O_2 (mg/L) + 10%	Redox (mV) +/- 10 mV	Depth to Water (ft)	Comments
1237	285	-	7.25	17.6	1.92	32.5	1.11	-118.3	8.75	
1242	285	1.4	7.21	17.5	1.89	21.0	0.36	-110.6	8.80	
1247	285	2.8	7.21	17.4	1.89	11.02	0.31	-106.6	8.80	
1252	285	4.2	7.21	17.5	1.88	8.21	0.28	-102.0	8.82	
1257	285	5.6	7.20	17.6	1.88	6.53	0.25	-98.5	8.91	
										Sample Collected @ 1300

Total 1.5 Gallons Purged

Purge Time Start: 1237 Purge Time End: 1257 Final Static Water Level: 8.91

OBSERVATIONS

Notes: Blind Duplicate collected

LABELLA Associates, P.C.
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WELL I.D.: RMW-9

Project Name: Former Photech Imaging Site Groundwater Monitoring
Location: 1000 Driving Park Avenue, City of Rochester, Monroe County, New York
Project No.: 2151305
Sampled By: N. Inzinna
Date: 10/7/2015
Weather: 65 degrees F, partly cloudy

WELL SAMPLING INFORMATION

Well Diameter: 2 inch
Depth of Well: 21.5 feet
Measuring Point: Top of PVC
Pump Type: Geopump2 – Bladder Pump
Static Water Level: 14.40 feet
Length of Well Screen: 5 feet
Depth to Top of Pump: 19 feet
Tubing Type: 0.25-inch O.D.

FIELD PARAMETER MEASUREMENT

Time	Avg Pump Rate (ml/min)	Liters Purged (Approx.)	pH +/- 0.1	Temp °C	Conductivity (µS/cm) +/- 3%	Turbidity (NTU)	Dissolved O_2 (mg/L) + 10%	Redox (mV) +/- 10 mV	Depth to Water (ft)	Comments
1400	173	-	7.12	16.4	3.03	95.1	2.65	43.0	14.40	
1405	173	0.86	6.80	14.2	2.99	81.7	0.52	-4.1	15.10	Pump rate slowed
1410	173	1.72	6.78	14.2	2.98	OR	0.28	-22.4	15.05	
1415	173	2.58	6.79	14.0	2.98	OR	0.18	-31.1	14.97	
1420	173	3.44	6.77	14.2	2.98	OR	0.20	-23.3	14.95	
1425	173	4.3	6.82	13.6	2.98	2231 AU	0.14	-28.3	14.94	
1230	173	5.16	6.85	13.5	2.99	1582 AU	0.13	-29.2	14.92	
1435	173	6.02	6.87	13.6	2.98	1090 AU	0.10	-26.0	14.91	
1440	173	6.88	6.88	13.5	2.98	64 NTU	0.09	-24.2	14.90	
1445	173	7.74	6.89	13.3	2.98	79.8	0.12	-21.4	14.90	
1450	173	8.6	6.88	13.2	2.98	45.9	0.09	-18.4	14.92	
1455	173	9.46	6.89	13.2	2.97	31.5	0.10	-17.8	14.91	
1500	173	10.32	6.89	13.3	2.97	29.0	0.10	-17.4	14.90	
1505	173	11.18	6.88	13.4	2.98	26.2	0.12	-16.5	14.90	
										Sample Collected @ 1507

Total 3 Gallons Purged

Purge Time Start: 1400 Purge Time End: 1505 Final Static Water Level: 14.90

OBSERVATIONS

Notes: OR = Out of range

LABELLA Associates, P.C.
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WELL I.D.: RMW-7

Project Name: Former Photech Imaging Site Groundwater Monitoring
Location: 1000 Driving Park Avenue, City of Rochester, Monroe County, New York
Project No.: 2151305
Sampled By: N. Inzinna
Date: 10/8/2015
Weather: 60 degrees F, partly cloudy

WELL SAMPLING INFORMATION

Well Diameter: 2 inch
Depth of Well: 15 feet
Measuring Point: Top of PVC
Pump Type: Geopump2 – Bladder Pump
Static Water Level: 9.89 feet
Length of Well Screen: 5 feet
Depth to Top of Pump: 12.5 feet
Tubing Type: 0.25-inch O.D.

FIELD PARAMETER MEASUREMENT

Time	Avg Pump Rate (ml/min)	Liters Purged (Approx.)	pH +/- 0.1	Temp °C	Conductivity (µS/cm) +/- 3%	Turbidity (NTU)	Dissolved O_2 (mg/L) + 10%	Redox (mV) +/- 10 mV	Depth to Water (ft)	Comments
0901	300	-	7.65	15.8	1.57	15.2	5.57	-50.6	9.59	Water level with pump submerged
0906	300	1.5	7.43	16.5	1.58	8.16	0.82	-105.5	9.61	
0911	300	3	7.40	16.6	1.57	1.71	0.30	-107.5	9.60	
0916	300	4.5	7.38	16.5	1.59	2.51	0.24	-106.8	9.60	
0921	300	6	7.38	16.5	1.59	1.85	0.26	-103.6	9.60	
0926	300	7.5	7.37	16.6	1.59	0.89	0.24	-102.8	9.60	
										Sample Collected @ 0930

Total 2 Gallons Purged

Purge Time Start: 0901 Purge Time End: 0926 Final Static Water Level: 9.60

OBSERVATIONS

Notes: MS/MSD QC samples collected

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WELL I.D.: RMW-4

Project Name: Former Photech Imaging Site Groundwater Monitoring
Location: 1000 Driving Park Avenue, City of Rochester, Monroe County, New York
Project No.: 2151305
Sampled By: N. Inzinna
Date: 10/8/2015
Weather: 60 degrees F, mostly sunny

WELL SAMPLING INFORMATION

Well Diameter: 2 inch
Depth of Well: 18.5 feet
Measuring Point: Top of PVC
Pump Type: Geopump2 – Bladder Pump
Static Water Level: 11.66 feet
Length of Well Screen: 5 feet
Depth to Top of Pump: 16 feet
Tubing Type: 0.25-inch O.D.

FIELD PARAMETER MEASUREMENT

Time	Avg Pump Rate (ml/min)	Liters Purged (Approx.)	pH +/- 0.1	Temp °C	Conductivity (µS/cm) +/- 3%	Turbidity (NTU)	Dissolved O_2 (mg/L) + 10%	Redox (mV) +/- 10 mV	Depth to Water (ft)	Comments
1013	215	-	9.46	15.4	1.30	82.1	2.27	31.2	11.6	
1018	215	1.08	9.52	15.2	1.28	69.7	0.40	12.1	12.05	
1023	215	2.16	9.82	15.1	1.26	OR	0.30	-16.9	12.34	Pump rate slowed due to high
1028	215	3.24	10.71	14.9	1.32	OR	0.15	-91.4	12.38	turbidity and drawdown
1033	215	4.32	11.22	14.6	1.45	OR	0.11	-117.5	12.44	
1038	215	5.4	11.41	14.5	1.56	1236 AU	0.13	-132.9	12.56	
1043	215	6.48	11.50	14.5	1.62	627 AU	0.12	-138.6	12.55	
1048	215	7.56	11.58	14.5	1.68	85 NTU	0.10	-143.8	12.55	
1053	215	8.64	11.62	14.5	1.71	118 NTU	0.11	-145.2	12.60	
1058	215	9.72	11.69	14.5	1.77	106.7	0.09	-148.2	12.62	
1103	215	10.8	11.71	14.5	1.80	82.3	0.10	-149.8	12.63	
1108	215	11.88	11.74	14.4	1.85	75.8	0.10	-151.2	12.64	
1113	215	12.96	11.76	14.5	1.86	82.2	0.11	-152.1	12.64	
1118	215	14.04	11.78	14.5	1.85	84.1	0.12	-152.8	12.65	
1123	215	15.12	11.81	14.4	1.87	79.3	0.09	-154.1	12.65	Sample Collected @ 1126

Total 4 Gallons Purged

Purge Time Start: 1013 Purge Time End: 1123 Final Static Water Level: 12.65

OBSERVATIONS

Notes: Sample collected after turbidity stabilized at approximately 80 NTUs for 5 readings.
OR = out of range

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WELL I.D.: **Well - 07**

Project Name: Former Photech Imaging Site Groundwater Monitoring
Location: 1000 Driving Park Avenue, City of Rochester, Monroe County, New York
Project No.: 2151305
Sampled By: N. Inzinna
Date: 10/8/2015
Weather: 65 degrees F, sunny

WELL SAMPLING INFORMATION

Well Diameter:	2 inch	Static Water Level:	6.41 feet
Depth of Well:	12.8 feet	Length of Well Screen:	5 feet
Measuring Point:	Top of PVC	Depth to Top of Pump:	10.5 feet
Pump Type:	Geopump2 – Bladder Pump	Tubing Type:	0.25-inch O.D.

FIELD PARAMETER MEASUREMENT

Time	Avg Pump Rate (ml/min)	Liters Purged (Approx.)	pH +/- 0.1	Temp °C	Conductivity (µS/cm) +/- 3%	Turbidity (NTU)	Dissolved O_2 (mg/L) + 10%	Redox (mV) +/- 10 mV	Depth to Water (ft)	Comments
1232	228	-	7.72	17.1	1.37	43.1	0.32	-126.7	6.41	
1237	228	1.14	7.48	17.1	1.39	50.5	0.44	-101.0	6.85	
1242	228	2.28	7.19	17.1	1.37	45.0	0.34	-87.4	7.41	
1247	228	3.42	7.06	17.2	1.34	39.0	0.30	-70.3	8.51	Slowed fill rate due to drawdown
1252	228	4.56	7.04	17.3	1.32	36.2	0.31	-66.2	8.16	
1257	228	5.7	7.01	17.3	1.30	32.8	0.32	-61.8	8.30	
										Sample Collected @ 1302

Total 1.5 Gallons Purged

Purge Time Start: 1232 Purge Time End: 1257 Final Static Water Level: 8.30

OBSERVATIONS

Notes: None

LABELLA Associates, P.C.
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WELL I.D.: RMW-3

Project Name:	Former Photech Imaging Site Groundwater Monitoring
Location:	1000 Driving Park Avenue, City of Rochester, Monroe County, New York
Project No.:	2151305
Sampled By:	N. Inzinna
Date:	10/8/2015
Weather:	65 degrees, sunny

WELL SAMPLING INFORMATION

Well Diameter:	2 inch	Static Water Level:	8.33 feet
Depth of Well:	18.6 feet	Length of Well Screen:	5 feet
Measuring Point:	Top of PVC	Depth to Top of Pump:	16 feet
Pump Type:	Geopump2 – Bladder Pump	Tubing Type:	0.25-inch O.D.

FIELD PARAMETER MEASUREMENT

Time	Avg Pump Rate (ml/min)	Liters Purged (Approx.)	pH +/- 0.1	Temp °C	Conductivity (µS/cm) +/- 3%	Turbidity (NTU)	Dissolved O_2 (mg/L) + 10%	Redox (mV) +/- 10 mV	Depth to Water (ft)	Comments
1355	254	-	7.19	17.0	2.22	31.9	5.17	73.8	8.35	
1400	254	1.27	6.99	16.5	2.02	19.2	2.05	92.2	8.56	
1405	254	2.54	6.90	16.3	2.11	21.1	1.26	100.8	8.78	
1410	254	3.81	6.87	16.2	2.14	17.0	0.89	101.1	8.86	
1415	254	5.08	6.86	16.2	2.16	18.1	0.70	102.3	8.89	
1420	254	6.35	6.85	16.2	2.17	14.2	0.67	102.9	8.90	
1425	254	7.62	6.84	16.2	2.16	14.1	0.61	103.6	8.91	
										Sample Collected @ 1428

Total 2 Gallons Purged

Purge Time Start: 1355 Purge Time End: 1425 Final Static Water Level: 8.91

OBSERVATIONS

Notes: None

LABELLA Associates, P.C.
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WELL I.D.: Well - 09

Project Name: Former Photech Imaging Site Groundwater Monitoring
Location: 1000 Driving Park Avenue, City of Rochester, Monroe County, New York
Project No.: 2151305
Sampled By: N. Inzinna
Date: 10/8/2015
Weather: 65 degrees F, sunny

WELL SAMPLING INFORMATION

Well Diameter: 2 inch
Depth of Well: 16 feet
Measuring Point: Top of PVC
Pump Type: Geopump2 – Bladder Pump
Static Water Level: 7.82 feet
Length of Well Screen: 5 feet
Depth to Top of Pump: 13 feet
Tubing Type: 0.25-inch O.D.

FIELD PARAMETER MEASUREMENT

Time	Avg Pump Rate (ml/min)	Liters Purged (Approx.)	pH +/- 0.1	Temp °C	Conductivity (µS/cm) +/- 3%	Turbidity (NTU)	Dissolved O_2 (mg/L) + 10%	Redox (mV) +/- 10 mV	Depth to Water (ft)	Comments
1505	220	-	7.02	14.9	2.24	31	4.27	0.3	7.68	
1510	220	1.1	6.84	14.5	2.35	24	0.68	-31.4	7.95	
1515	220	2.2	6.80	14.4	2.34	38.1	0.43	-35.9	7.93	
1520	220	3.3	6.77	14.2	2.33	54.5	0.23	-35.4	8.08	
1525	220	4.4	6.76	14.0	2.35	47.3	0.28	-31.8	7.99	
1530	220	5.5	6.76	14.0	2.33	30.7	0.25	-30.4	8.00	
1535	220	6.6	6.75	14.0	2.32	26.0	0.24	-28.2	7.98	
1540	220	7.7	6.76	14.0	2.31	21.5	0.21	-27.4	7.97	
										Sample Collected @ 1544

Total 2 Gallons Purged

Purge Time Start: 1505 Purge Time End: 1540 Final Static Water Level: 7.97

OBSERVATIONS

Notes: None

LABELLA Associates, P.C.
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WELL I.D.: RMW-2

Project Name: Former Photech Imaging Site Groundwater Monitoring
Location: 1000 Driving Park Avenue, City of Rochester, Monroe County, New York
Project No.: 2151305
Sampled By: N. Inzinna
Date: 10/8/2015
Weather: 60 degrees F, partly cloudy

WELL SAMPLING INFORMATION

Well Diameter: 2 inch
Depth of Well: 17.5 feet
Measuring Point: Top of PVC
Pump Type: Geopump2 – Bladder Pump
Static Water Level: 8.90 feet
Length of Well Screen: 5 feet
Depth to Top of Pump: 15 feet
Tubing Type: 0.25-inch O.D.

FIELD PARAMETER MEASUREMENT

Time	Avg Pump Rate (ml/min)	Liters Purged (Approx.)	pH +/- 0.1	Temp °C	Conductivity (µS/cm) +/- 3%	Turbidity (NTU)	Dissolved O_2 (mg/L) + 10%	Redox (mV) +/- 10 mV	Depth to Water (ft)	Comments
1630	254	-	7.61	16.1	1.39	19.1	1.64	72.1	8.90	
1635	254	1.27	7.44	16.0	1.40	23.2	1.23	68.6	8.91	
1640	254	2.54	7.38	16.1	1.40	28.0	1.15	64.0	8.94	
1645	254	3.81	7.32	16.0	1.41	28.3	1.06	61.5	8.95	
1650	254	5.08	7.26	16.0	1.45	29.2	0.91	60.8	8.95	
1655	254	6.35	7.24	15.9	1.47	27.7	0.90	60.5	8.97	
1700	254	7.62	7.23	15.9	1.49	32.6	0.87	60.8	8.98	
										Sample Collected @ 1703

Total 2 Gallons Purged

Purge Time Start: 1630 Purge Time End: 1700 Final Static Water Level: 8.98

OBSERVATIONS

Notes: None

LABELLA Associates, P.C.
300 State Street
Rochester, New York 14614
Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: RMW-1

Project Name: Former Photech Imaging Site Groundwater Monitoring
Location: 1000 Driving Park Avenue, City of Rochester, Monroe County, New York
Project No.: 2151305
Sampled By: N. Inzinna
Date: 10/9/2015
Weather: 55 degrees F, rain

WELL SAMPLING INFORMATION

Well Diameter: 2 inch
Depth of Well: 16 feet
Measuring Point: Top of PVC
Pump Type: Geopump2 – Bladder Pump
Static Water Level: 8.33 feet
Length of Well Screen: 5 feet
Depth to Top of Pump: 13.5 feet
Tubing Type: 0.25-inch O.D.

FIELD PARAMETER MEASUREMENT

Time	Avg Pump Rate (ml/min)	Liters Purged (Approx.)	pH +/- 0.1	Temp °C	Conductivity (µS/cm) +/- 3%	Turbidity (NTU)	Dissolved O_2 (mg/L) + 10%	Redox (mV) +/- 10 mV	Depth to Water (ft)	Comments
0855	240	-	6.99	15.8	2.65	71.5	0.92	102.1	8.32	
0900	240	1.2	6.97	15.4	2.64	53.2	0.71	61.6	8.30	
0905	240	2.4	6.94	15.2	2.63	52	0.46	-40.1	8.31	
0910	240	3.6	6.94	15.0	2.61	65.0	0.29	-42.6	8.30	
0915	240	4.8	6.94	14.9	2.60	46.1	0.25	-34.5	8.30	
0920	240	6	6.94	14.9	2.59	32.5	0.24	-28.7	8.31	
0925	240	7.2	6.94	14.9	2.59	26.2	0.22	-24.9	8.31	
0930	240	8.4	6.94	14.8	2.58	21.5	0.20	-22.7	8.31	
0935	240	9.6	6.93	14.8	2.58	19.8	0.19	-21.2	8.30	
										Sample Collected @ 0938

Total 2.5 Gallons Purged

Purge Time Start: 0855 Purge Time End: 0935 Final Static Water Level: 8.30

OBSERVATIONS

Notes: None

LABELLA Associates, P.C.
300 State Street
Rochester, New York 14614
Telephone: (585) 454-6110
Facsimile: (585) 454-3066

WELL I.D.: Well-04

Project Name: Former Photech Imaging Site Groundwater Monitoring
Location: 1000 Driving Park Avenue, City of Rochester, Monroe County, New York
Project No.: 2151305
Sampled By: N. Inzinna
Date: 10/9/2015
Weather: 60 degrees F, rain

WELL SAMPLING INFORMATION

Well Diameter:	2 inch	Static Water Level:	4.94 feet
Depth of Well:	11.1 feet	Length of Well Screen:	5 feet
Measuring Point:	Top of PVC	Depth to Top of Pump:	8.5 feet
Pump Type:	Geopump2 – Bladder Pump	Tubing Type:	0.25-inch O.D.

FIELD PARAMETER MEASUREMENT

Time	Avg Pump Rate (ml/min)	Liters Purged (Approx.)	pH +/- 0.1	Temp °C	Conductivity (µS/cm) +/- 3%	Turbidity (NTU)	Dissolved O_2 (mg/L) + 10%	Redox (mV) +/- 10 mV	Depth to Water (ft)	Comments
1013	210	-	7.25	18.1	1.71	87.1	1.51	120.1	4.94	
1018	210	1.06	7.13	17.9	1.82	74.2	1.20	109.4	5.08	
1023	210	2.12	7.00	17.9	1.86	818 AU	0.52	91.6	5.32	
1028	210	3.18	6.95	17.6	1.89	763 AU	0.24	32.8	5.27	
1033	210	4.24	6.94	17.5	1.89	84 NTU	0.23	24.2	5.25	
1038	210	5.30	6.94	17.4	1.91	88.6 NTU	0.22	16.1	5.29	
1043	210	6.36	6.94	17.4	1.97	47	0.22	10.4	5.31	
1048	210	7.42	6.95	17.4	2.04	26.6	0.19	7.5	5.34	
1053	210	8.48	6.96	17.4	2.11	19.8	0.20	4.3	5.36	
1058	210	9.54	6.96	17.4	2.16	22.5	0.19	2.0	5.38	
										Sample Collected @ 1102

Total 2.5 Gallons Purged

Purge Time Start: 1013 Purge Time End: 1058 Final Static Water Level: 5.38

OBSERVATIONS

Notes: None for Well – 04

Additional Sampling Notes:
-Equipment Blank was collected at conclusion of sampling; stainless steel pump was decontaminated in the same manner as decontamination conducted between each well, EQ Blank Sample time 1130.
-Purge water from drum was sampled for waste characterization, sample collected at 1145, approximately 35 gallons remain in drum.

LABELLA Associates, D.P.C. | Engineering Architecture Environmental Planning

APPENDIX 4

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. **B00016**

Site Name Former Photec Imaging

Site Address: 1000 Driving Pk. Avenue Zip Code: 14613-
City/Town: Rochester
County: Monroe
Site Acreage: 12.5

Reporting Period: September 22, 2014 to October 08, 2015

	YES	NO
1. Is the information above correct?	☒	☐
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?	☐	☒
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	☒
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☒	☐

If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.

See Attached

5. Is the site currently undergoing development?	☐	☒

Box 2

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

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

11-5-2015
Date

SITE NO. B00016

Box 3

Description of Institutional Controls

Parcel	Owner	Institutional Control
090.63-001-001	City of Rochester	Ground Water Use Restriction Landuse Restriction Site Management Plan Soil Management Plan Monitoring Plan IC/EC Plan

The Environmental Easement limits site use to commercial and/or industrial uses, prohibits the use of groundwater as a potable source, requires a site management plan, and requires periodic certification that all institutional and engineering controls are in place.

The Site Management Plan addresses: excavation of soils that may contain residual contamination; soil characterization and disposal/reuse in accordance with NYSDEC regulations; the potential for vapor intrusion into any buildings developed on the site; and operation and maintenance of the components of the remedy.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
090.63-001-001	Vapor Mitigation

Periodic groundwater monitoring to determine the effectiveness of the remedy. The need for groundwater remediation and/or continued monitoring will be periodically evaluated. Groundwater monitoring will continue until the remedial objectives have been achieved, or until the NYSDEC determines that continued monitoring is no longer required.

A sub-slab mitigation system will be required for all new building construction. The SSDS shall be monitored on a periodic basis. The SSDS can be shutdown if NYSDEC determines the system is no longer required.

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
☒	☐

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
☒	☐

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

11-5-2015
Date

IC CERTIFICATIONS
SITE NO. B00016

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 MARK D. GREGOR (print name) at 30 CHURCH ST. ROOM 300B ROCHESTER NY 14614 (print business address)

am certifying as AND ON BEHALF OF ~~CLIENT~~ CITY OF ROCHESTER (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

11-5-2015
Date

IC/EC CERTIFICATIONS

Box 7

Professional Engineer 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 DANIEL P. NOLL at 300 STATE ST., ROCHESTER NY,
print name print business address

am certifying as a Professional Engineer for the CITY OF ROCHESTER
(Owner or Remedial Party)

STATE OF NEW YORK DANIEL P. NOLL No. 071196 LICENSED PROFESSIONAL ENGINEER

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

Stamp (Required for PE)

11/5/15
Date

CK# 90058

SPECIALTY SHORT TERM DISCHARGE PERMIT

County of Monroe Pure Waters District No. 8575 ST- Permit No: ST-298

Expires: 11/30/15

Fee: $125.00

Firm Name LaBella Associates, DPC
Address 300 State St
Suite 201
Rochester, NY 14614

Type of Business or Service Engineering Firm

I. The above-named applicant is permitted to discharge wastes into the Monroe County Pure Waters Sewer system or Tributary thereto as applied for by an application dated _____ and verified by the applicant except the Director of Pure Waters requires the following terms and conditions to govern the permitted discharge:

A. _____
B. _____
C. _____

II. The applicant further agrees to:

1. Accept and abide by all provisions of the Sewer Use Law of Monroe County and of all pertinent rules or regulations now in force or shall be adopted in the future.
2. Notify the Director of Pure Waters in writing of any revision to the plant sewer system or any change in industrial wastes discharge to the public sewers as listed in the application. The latter encompasses either (1) an increase or decrease in average daily volume or strength of wastes listed in the application or (2) new wastes that were not listed in the application.
3. Furnish the Director of Pure Waters upon request any additional information related to the installation or use of sewer or drain for which this permit is sought.
4. Operate and maintain any waste pretreatment facilities, as may be required as a condition of the acceptance into the public sewer of the industrial wastes involved, in an efficient manner at all times, and at no expense to the County.
5. Cooperate with the Director of Pure Waters or his representatives in their inspecting, sampling, and study of wastes, or the facilities provided for pretreatment.
6. Notify the Director of Pure Waters immediately of any accident, negligence, breakdown of pretreatment equipment, or other occurrence that occasions discharge to the public sewers of any wastes or process waters not covered by this permit.

Applicant's Name (please print) Seth Davis

Applicant's Signature Seth Davis Date 10/27/15

Applicant's Title Env. Analyst Phone 585 245 4140

Emergency Contact D. Porter Phone 585 454 6110

Renewal Approved by: Michael J. Garland Issued this 29 day of Oct 20 15

Michael J. Garland, P.E.
Director of Environmental Services-Pure Waters
Monroe County

COUNTY OF MONROE
SEWER USE PERMIT ENCLOSURE

LaBella Associates, P.C.
300 State St.
Rochester, NY 14614

PERMIT NUMBER: ST-298
DISTRICT NUMBER: 8575

SITE LOCATION: 1000 Driving Park Ave
Rochester, NY

SAMPLE POINT: Composite of purge water in steel drums

REQUIRED MONITORING

SELF MONITORING FREQUENCY: **Each and Every Discharge**

SAMPLING PROTOCOL: Sampling and analysis shall be performed in accordance with the techniques prescribed in 40 CFR Part 136 and amendments thereto. In the absence of 40 CFR Part 136 testing methodology, a New York State Department of Health, approved method is acceptable. A grab sample, collected from the above noted sample point, must be analyzed for the following:

Ana lyte	Sewer Use Limit
Ag (Total)	2.0 mg/L
As (Total)	0.5 mg/L
Cd (Total)	1.0 mg/L
Cr (Total)	3.0 mg/L
Cu (Total)	3.0 mg/L
Ni (Total)	3.0 mg/L
Pb (Total)	1.0 mg/L
Zn (Total)	5.0 mg/L
PCBs	0.3 µg/L
Semi-Volatile Organic Compounds	*
Volatile Organic Compounds	*

* The summation of all volatile organic compounds and semi-organic volatile compounds reported greater than 10 µg/l shall not exceed 2.13 mg/L.

SPECIAL CONDITIONS:

1. **Sample results for each discharge must be reviewed and approved by Monroe County prior to discharge to the sanitary sewer system.**
2. **Discharge location must be approved by Monroe County prior to discharging.**
3. **All future discharges must be approved by Monroe County.**
4. **The discharge rate must not exceed 10 gpm unless an alternative rate is approved by Monroe County.**