Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\161101DATA2.qld
Last Altered: Wednesday, November 02, 2016 10:58:20 Pacific Daylight Time
Printed: Wednesday, November 02, 2016 10:59:24 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin161007.mdb 07 Oct 2016 14:10:52
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\160510ICAL.cdb 11 May 2016 09:28:40

ID: CS302, Name: 16110114, Date: 01-Nov-2016, Time: 21:14:00, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
2378-TCDF	25.540	1.001	1.29e5	1.66e5	0.935	0.777	0.770	1426	2446	1.75e6	2.36e6	1229.1	NO	10.046
12378-PeCDF	29.675	1.000	7.22e5	4.71e5	0.952	1.535	1.550	3396	2751	1.07e7	6.71e6	3138.0	NO	48.319
23478-PeCDF	31.023	1.000	7.93e5	5.06e5	0.963	1.566	1.550	3396	2751	1.16e7	7.42e6	3408.0	NO	51.133
123478-HxCDF	34.695	1.001	6.41e5	5.10e5	1.137	1.257	1.240	4353	3598	9.45e6	7.50e6	2170.7	NO	51.216
234678-HxCDF	35.791	1.001	6.28e5	5.16e5	1.164	1.218	1.240	4353	3598	8.99e6	7.41e6	2064.7	NO	51.589
123678-HxCDF	34.848	1.001	6.66e5	5.31e5	1.099	1.254	1.240	4353	3598	9.48e6	7.49e6	2177.4	NO	50.283
123789-HxCDF	36.941	1.001	5.41e5	4.39e5	1.101	1.231	1.240	4353	3598	7.88e6	6.32e6	1809.6	NO	50.959
1234678-HpCDF	39.002	1.001	5.24e5	5.14e5	1.303	1.020	1.050	2753	2374	7.66e6	7.52e6	2783.2	NO	48.057
1234789-HpCDF	41.621	1.000	4.40e5	4.26e5	1.317	1.034	1.050	2753	2374	5.68e6	5.52e6	2064.0	NO	49.219
OCDF	46.729	1.006	6.97e5	7.78e5	1.166	0.897	0.890	3057	2728	7.09e6	7.98e6	2320.7	NO	100.967
2378-TCDD	26.183	1.001	9.73e4	1.22e5	1.134	0.799	0.770	1548	1737	1.36e6	1.72e6	880.3	NO	10.509
12378-PeCDD	31.275	1.001	4.85e5	3.15e5	0.975	1.541	1.550	2911	3916	7.08e6	4.61e6	2431.7	NO	50.369
123478-HxCDD	35.933	1.001	4.45e5	3.54e5	1.031	1.257	1.240	3156	2507	6.67e6	5.31e6	2112.2	NO	48.344
123678-HxCDD	36.054	1.000	4.72e5	3.63e5	0.971	1.299	1.240	3156	2507	6.85e6	5.37e6	2170.5	NO	51.893
123789-HxCDD	36.481	1.012	4.46e5	3.68e5	0.947	1.212	1.240	3156	2507	6.68e6	5.45e6	2117.8	NO	52.835
1234678-HpCDD	40.767	1.000	3.76e5	3.58e5	1.028	1.049	1.050	2392	2275	5.05e6	4.98e6	2110.8	NO	49.913
OCDD	46.460	1.000	5.79e5	6.60e5	1.107	0.878	0.890	1730	1659	6.12e6	7.00e6	3536.0	NO	89.299
13C-2378-TCDF	25.525	1.007	1.37e6	1.77e6	1.567	0.778	0.770	6187	4456	1.96e7	2.53e7	3168.0	NO	100.002
13C-12378-PeCDF	29.664	1.170	1.58e6	1.02e6	1.274	1.547	1.550	2938	3287	2.26e7	1.45e7	7700.6	NO	101.563
13C-23478-PeCDF	31.012	1.223	1.61e6	1.02e6	1.235	1.574	1.550	2938	3287	2.30e7	1.46e7	7830.7	NO	106.613
13C-123478-HxCDF	34.673	0.951	6.76e5	1.30e6	1.381	0.520	0.510	3333	4220	9.91e6	1.90e7	2973.4	NO	91.671
13C-123678-HxCDF	34.826	0.955	7.31e5	1.43e6	1.569	0.510	0.510	3333	4220	1.05e7	2.01e7	3152.8	NO	88.395
13C-234678-HxCDF	35.769	0.981	6.51e5	1.26e6	1.345	0.519	0.510	3333	4220	9.60e6	1.83e7	2879.9	NO	90.806
13C-123789-HxCDF	36.919	1.012	5.98e5	1.15e6	1.183	0.520	0.510	3333	4220	8.72e6	1.68e7	2616.2	NO	94.634
13C-1234678-HpCDF	38.980	1.069	5.14e5	1.14e6	1.178	0.449	0.440	2074	3263	7.62e6	1.70e7	3675.8	NO	90.121
13C-1234789-HpCDF	41.600	1.141	4.17e5	9.18e5	0.878	0.454	0.440	2074	3263	5.36e6	1.19e7	2582.5	NO	97.488
13C-1234-TCDD	25.361	0.000	8.84e5	1.12e6	1.000	0.789	0.770	4359	2276	1.25e7	1.57e7	2865.6	NO	100.000
13C-2378-TCDD	26.168	1.032	8.07e5	1.03e6	0.908	0.782	0.770	4359	2276	1.13e7	1.43e7	2588.7	NO	101.024
13C-12378-PeCDD	31.253	1.232	9.88e5	6.40e5	0.756	1.543	1.550	1305	1029	1.43e7	9.34e6	10976.0	NO	107.464
13C-123478-HxCDD	35.911	0.985	8.93e5	7.09e5	1.056	1.260	1.240	2446	2310	1.33e7	1.07e7	5449.1	NO	97.243
13C-123678-HxCDD	36.043	0.988	9.26e5	7.29e5	1.163	1.270	1.240	2446	2310	1.37e7	1.08e7	5620.6	NO	91.169
13C-1234678-HpCDD	40.745	1.117	7.38e5	6.91e5	0.909	1.068	1.050	2591	2481	1.02e7	9.65e6	3920.3	NO	100.744
13C-OCDD	46.442	1.273	1.18e6	1.32e6	0.820	0.892	0.890	2531	6171	1.21e7	1.35e7	4796.8	NO	195.914

Quantify Sample Summary Report **MassLynx MassLynx V4.1 SCN909**
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Last Altered: Wednesday, November 02, 2016 10:58:20 Pacific Daylight Time
Printed: Wednesday, November 02, 2016 10:59:24 Pacific Daylight Time

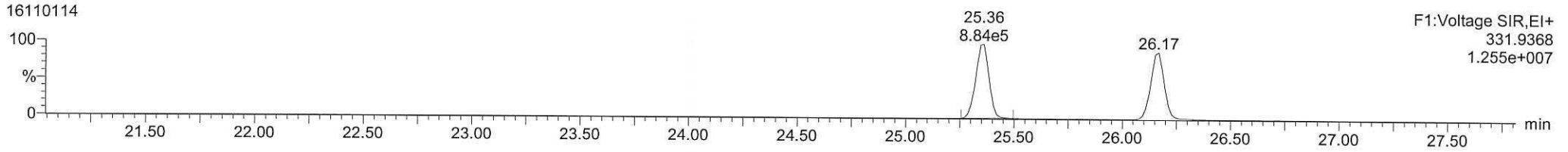
ID: CS302, Name: 16110114, Date: 01-Nov-2016, Time: 21:14:00, Conditions: AUTOSPEC01, User: PK

Name	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N	EMPC?	pg
13C-123789-HxCDD	36.470	0.000	8.65e5	6.96e5	1.000	1.243	1.240	2446	2310	1.28e7	1.03e7	5226.4	NO	100.000
Total-tetrafurans			4.29e5		0.935			1426		5.94e6				33.033
Total-penta1			9.92e5					806		1.45e7				67.935
Total-pentafurans			2.40e6		0.957			3396		3.48e7				157.336
Total-hexafurans			3.13e6		1.125			4353		4.53e7				257.947
Total-heptafurans			9.65e5		1.310			2753		1.34e7				97.385
Total-Furans			8.61e6		1.114			1426		1.21e8				714.612
Total-tetradioxins			5.12e5		1.134			1548		6.58e6				55.482
Total-pentadioxins			1.91e6		0.975			2911		2.37e7				198.491
Total-hexadioxins			1.86e6		0.983			3156		2.74e7				208.501
Total-heptadioxins			7.82e5		1.028			2392		1.09e7				104.588
Total-Dioxins			5.64e6		1.028			1548		7.48e7				656.361
Total-TEQ			1.43e7					1548		1.96e8				1370.973
37CL-2378-TCDD	26.183	1.032	2.24e5		1.067			2155		3.19e6		1480.0		10.471
FUNCTION1 PFK			7.19e5					481505		1.49e7				
FUNCTION2 PFK			1.92e5					147535		6.24e6				0.000
FUNCTION3 PFK			1.04e5					423409		2.83e6				0.000
FUNCTION4 PFK			2.39e5					325699		8.63e6				
FUNCTION5 PFK			2.70e5					273945		1.02e7				
FUNCTION1 HXCDPE			2.44e2					412		5.33e3				0.000
FUNCTION1 HPCDPE			1.22e3					915		2.52e4				0.000
FUNCTION2 HPCDPE			8.58e2					1134		1.65e4				0.000
FUNCTION3 OCDPE			0.00e0					392		0.00e0				
FUNCTION4 NCDPE			0.00e0					718		0.00e0				
FUNCTION5 DCDPE			0.00e0					418		0.00e0				

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin161007.mdb 07 Oct 2016 14:10:52
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\160510ICAL.cdb 11 May 2016 09:28:40

ID: CS302, Name: 16110114, Date: 01-Nov-2016, Time: 21:14:00, Conditions: AUTOSPEC01, User: PK

13C-1234-TCDD



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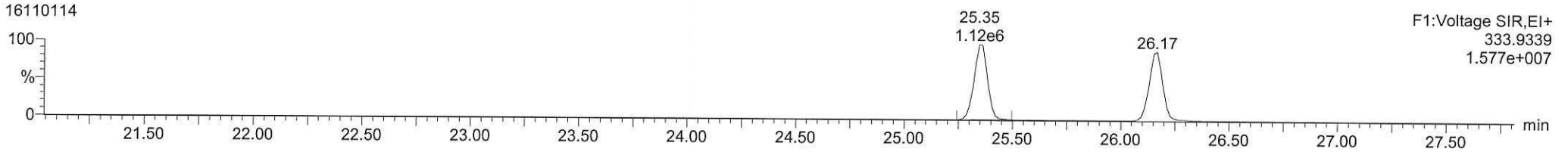

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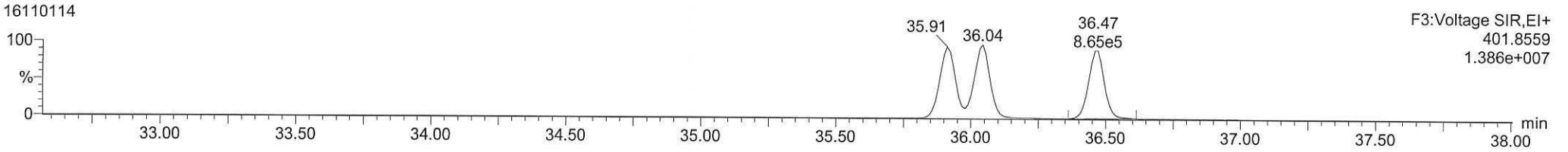

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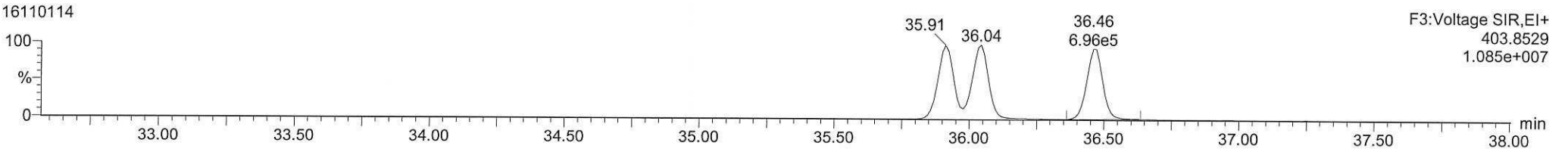
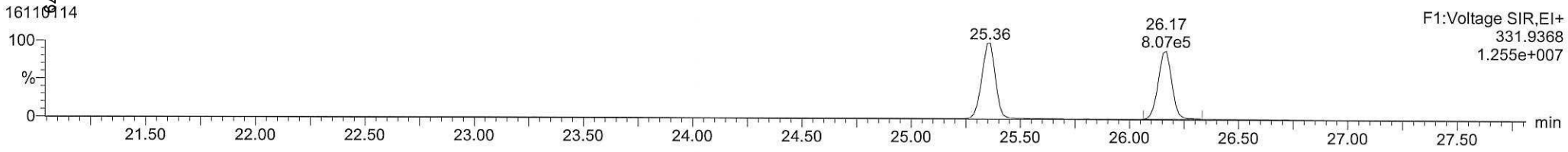


ID: CS302, Name: 16110114, Date: 01-Nov-2016, Time: 21:14:00, Conditions: AUTOSPEC01, User: PK

13C-2378-TCDD



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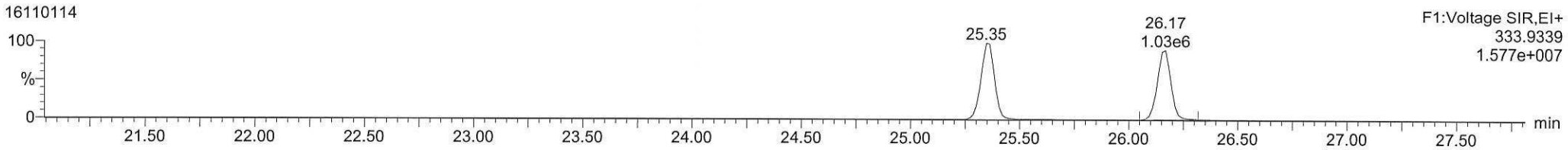
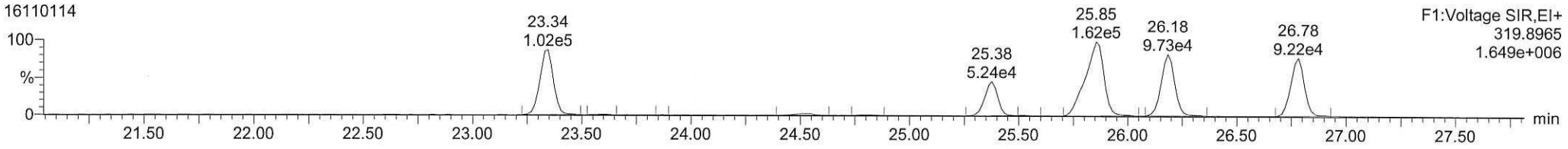
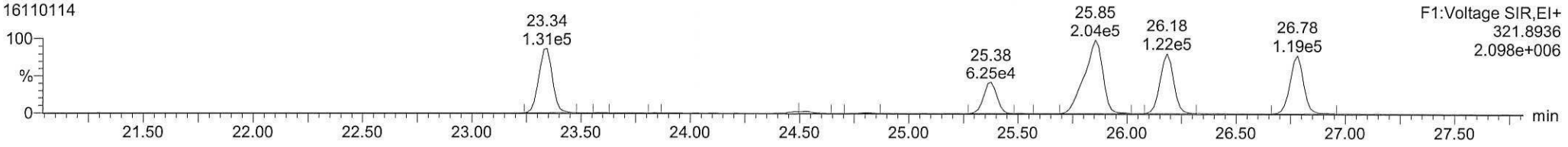


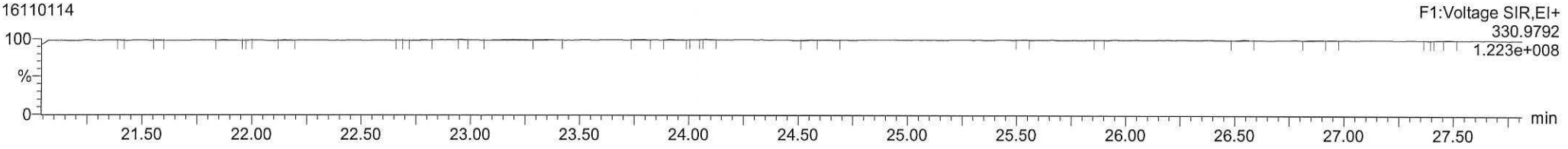
Total-tetradioxins



Total-tetradioxins

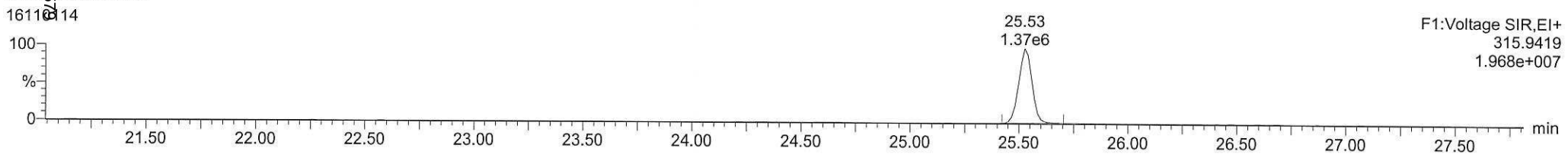


FUNCTION1 PFK



ID: CS302, Name: 16110114, Date: 01-Nov-2016, Time: 21:14:00, Conditions: AUTOSPEC01, User: PK

13C-2378-TCDF



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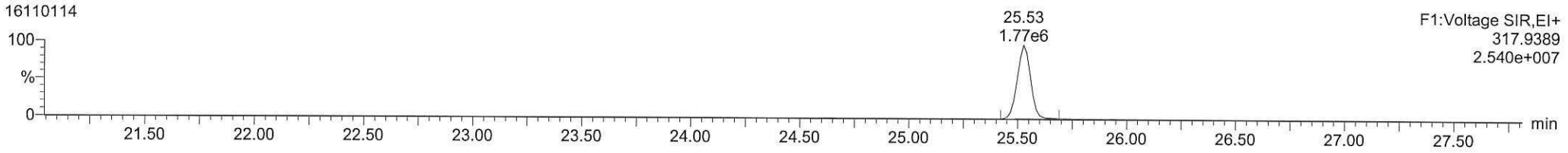
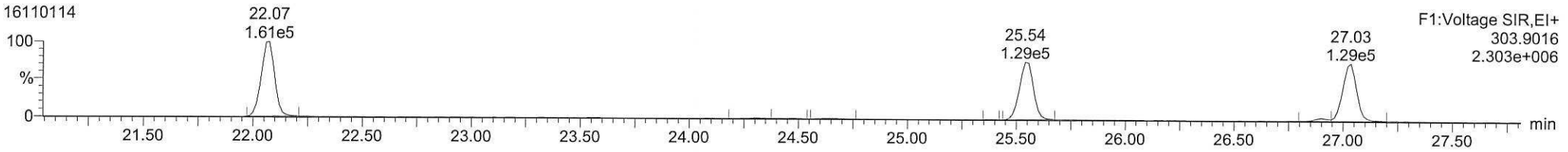
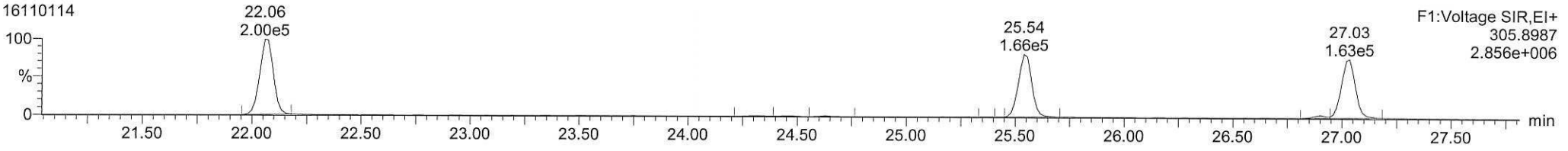


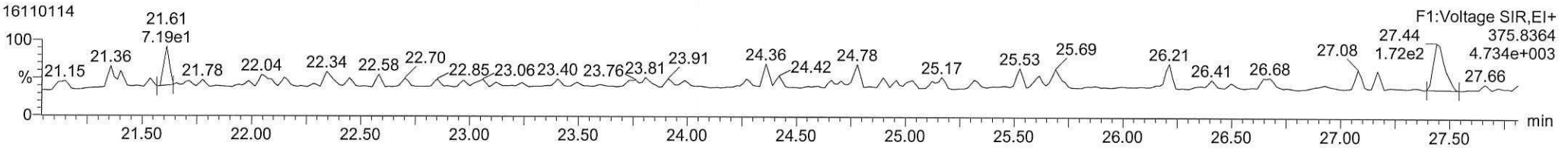
Total-tetrafurans



Total-tetrafurans

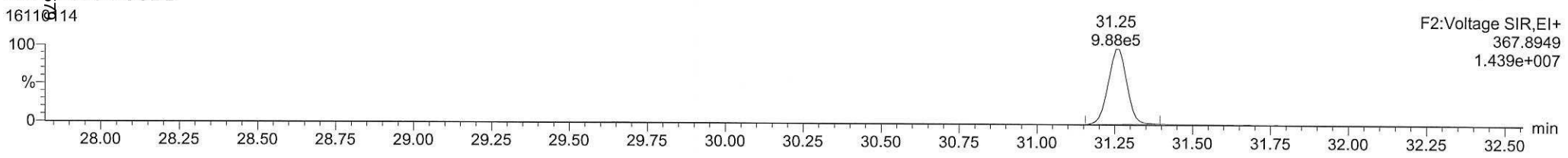


FUNCTION1 HXCDPE



ID: CS302, Name: 16110114, Date: 01-Nov-2016, Time: 21:14:00, Conditions: AUTOSPEC01, User: PK

13C-12378-PeCDD



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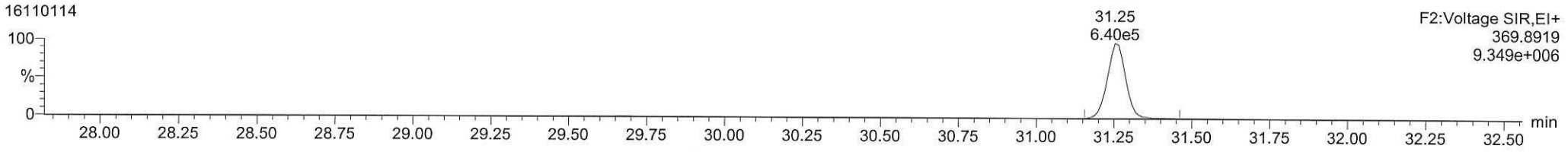
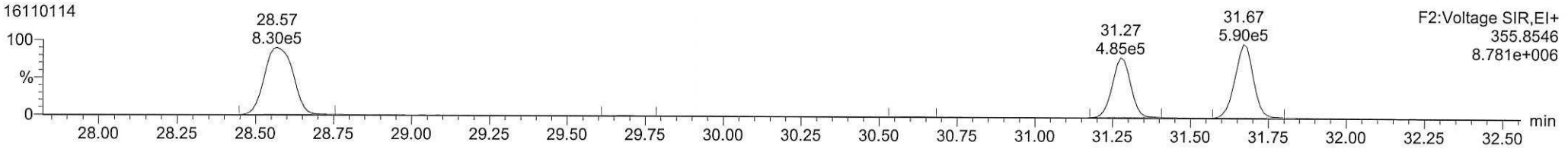
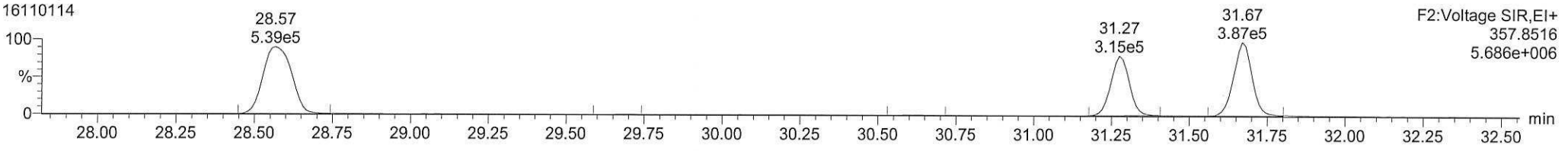


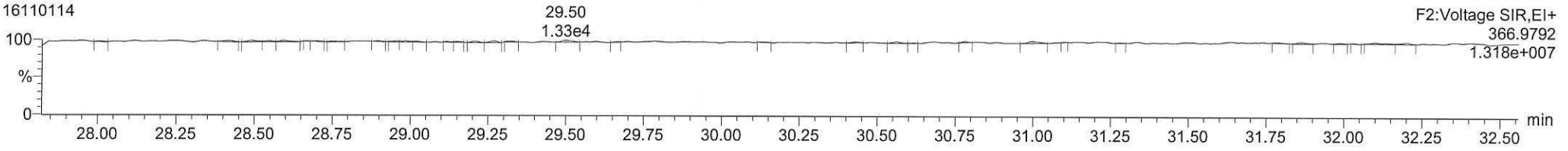
Total-pentadioxins



Total-pentadioxins



FUNCTION2 PFK



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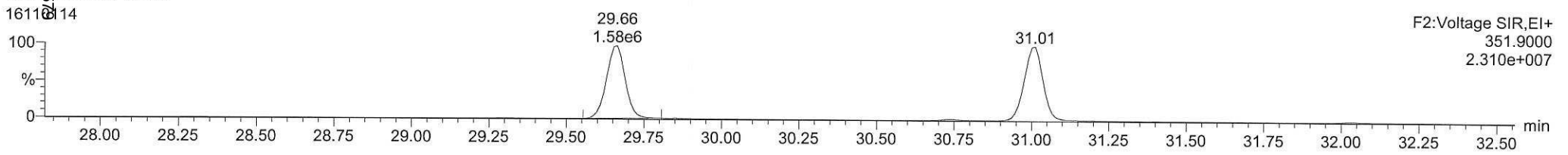
13C-12378-PeCDF



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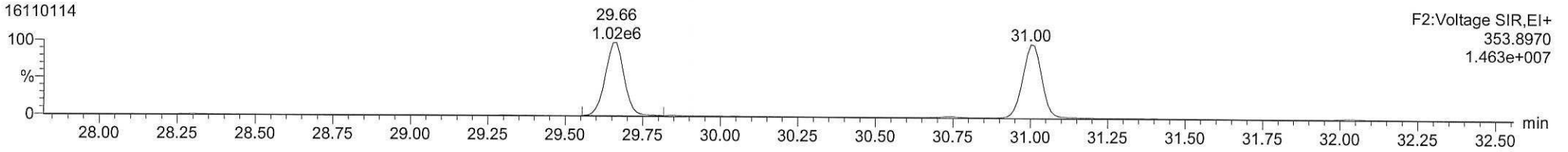
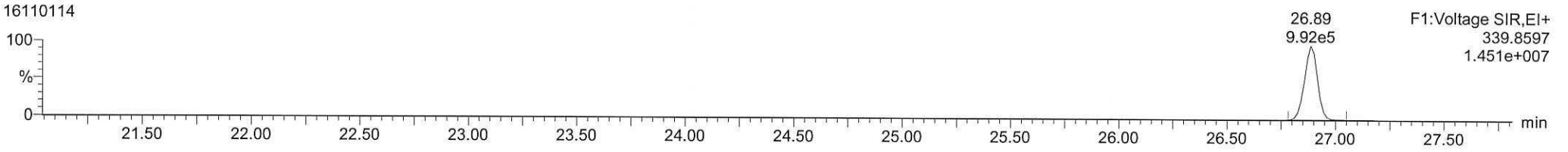
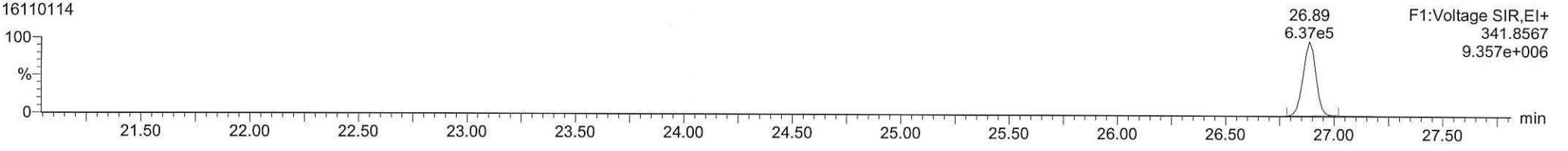


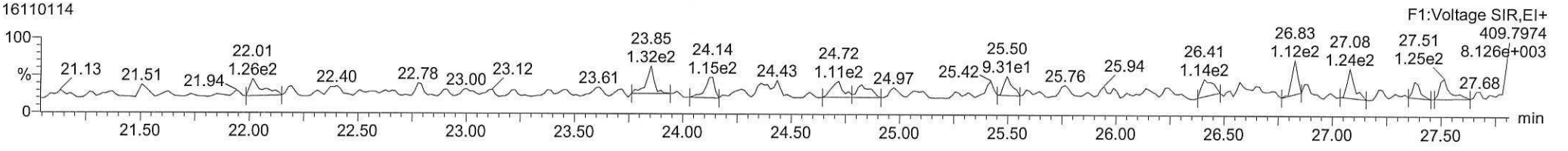
Total-penta1



Total-penta1



FUNCTION1 HPCDPE



ID: CS302, Name: 16110114, Date: 01-Nov-2016, Time: 21:14:00, Conditions: AUTOSPEC01, User: PK

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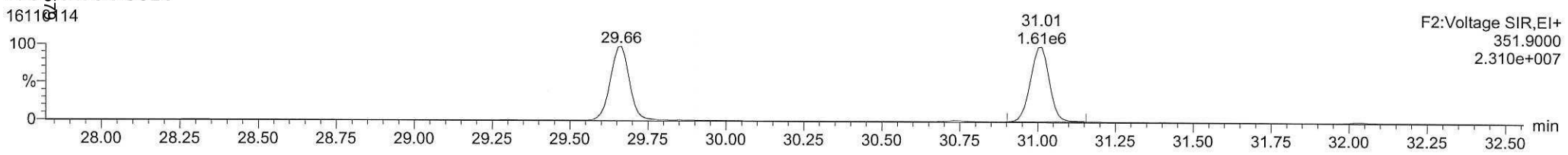

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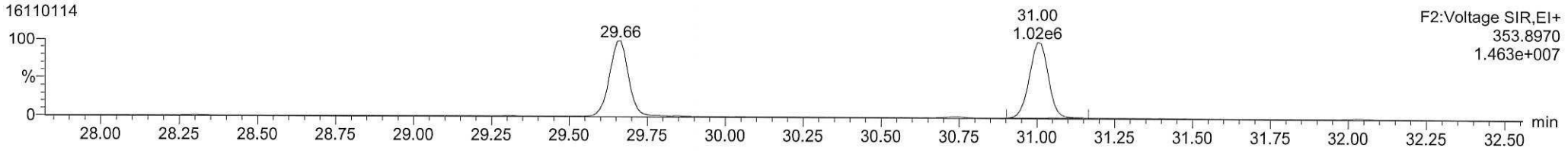
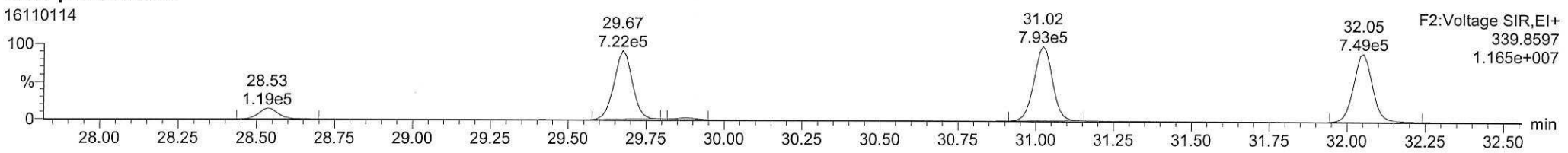
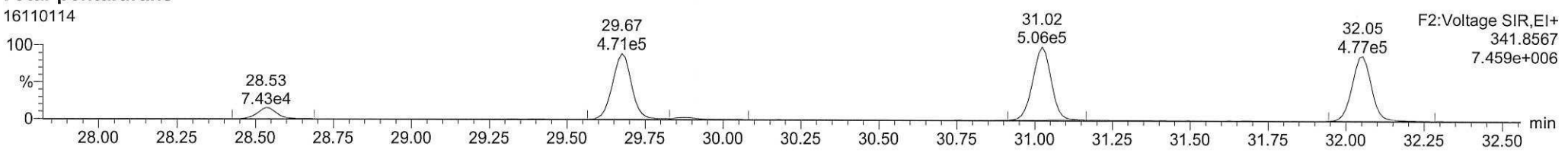


Total-pentafurans



Total-pentafurans



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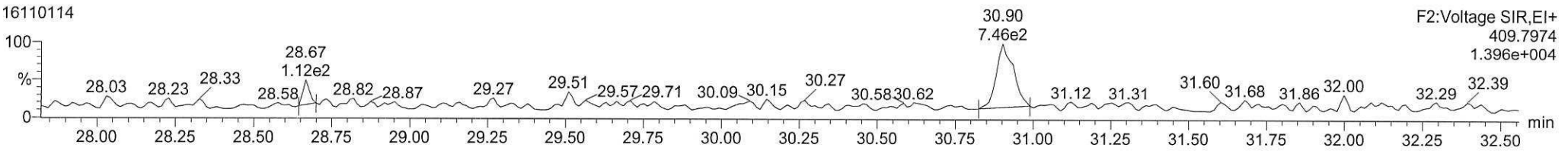
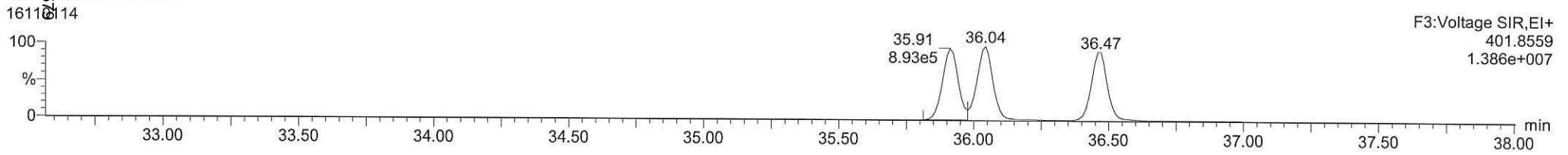


ID: CS302, Name: 16110114, Date: 01-Nov-2016, Time: 21:14:00, Conditions: AUTOSPEC01, User: PK

13C-123478-HxCDD



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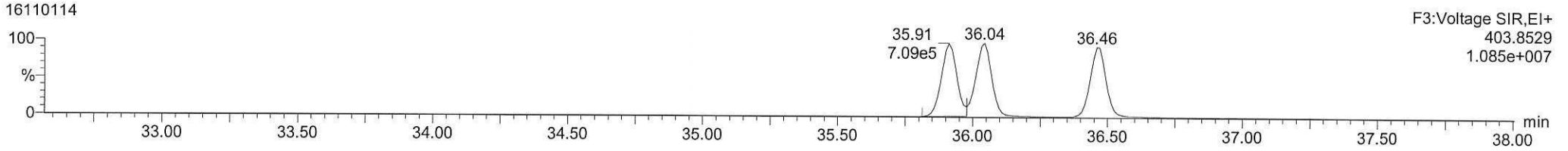
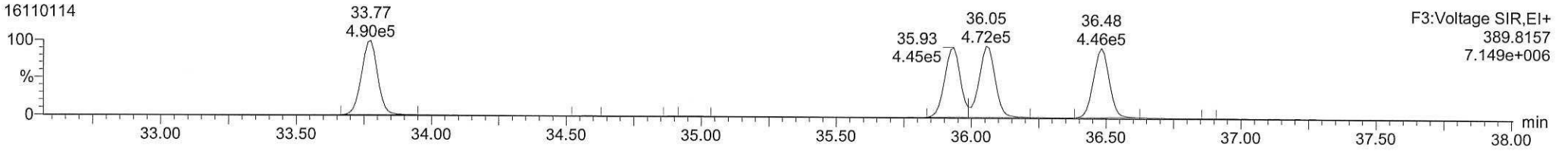
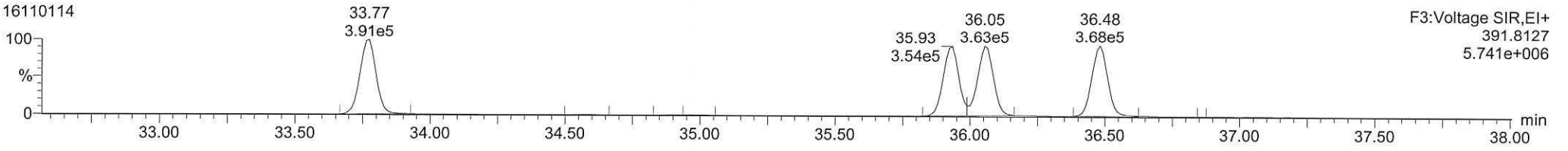


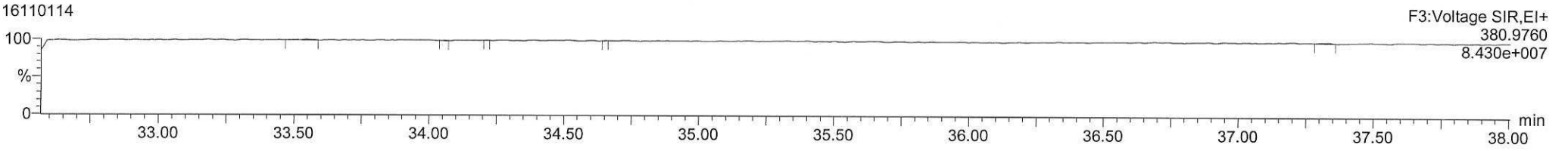
Total-hexadioxins



Total-hexadioxins

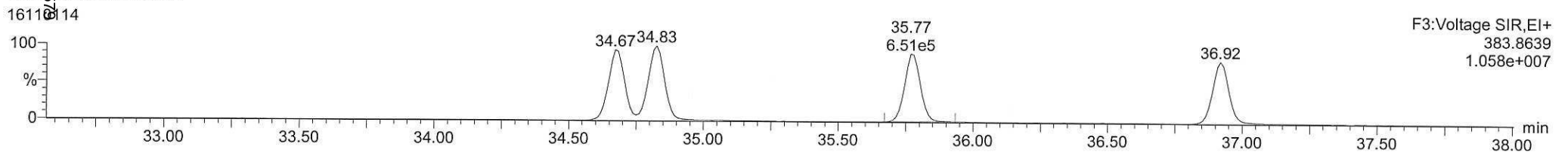


FUNCTION3 PFK

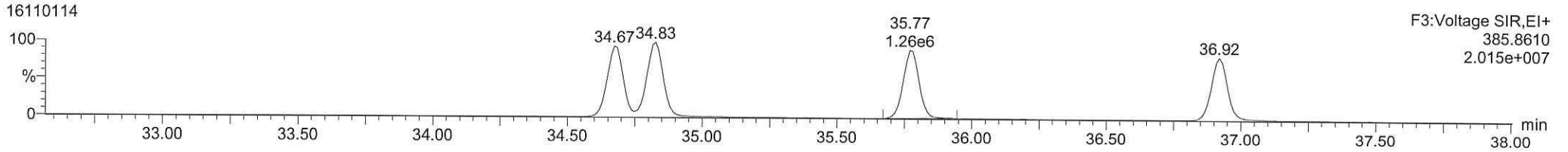


ID: CS302, Name: 16110114, Date: 01-Nov-2016, Time: 21:14:00, Conditions: AUTOSPEC01, User: PK

13C-234678-HxCDF



13C-234678-HxCDF



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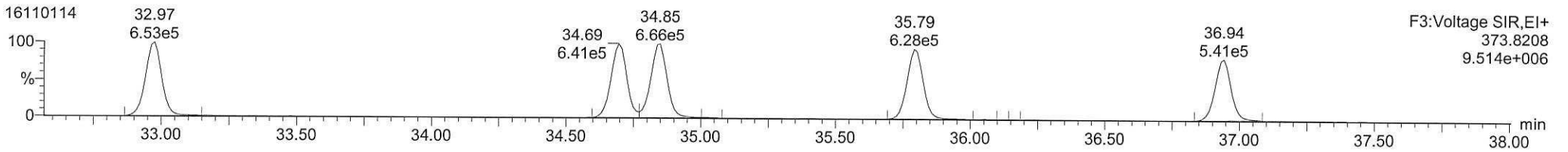

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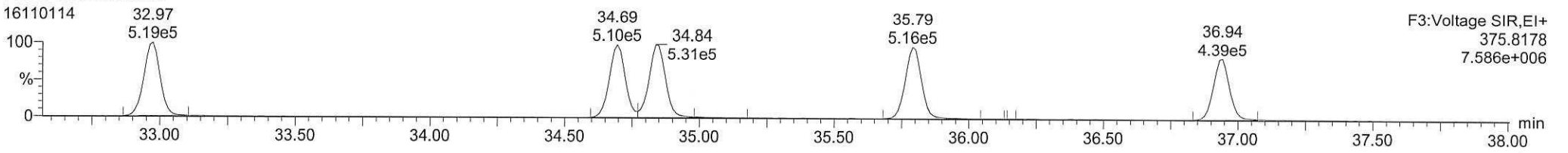
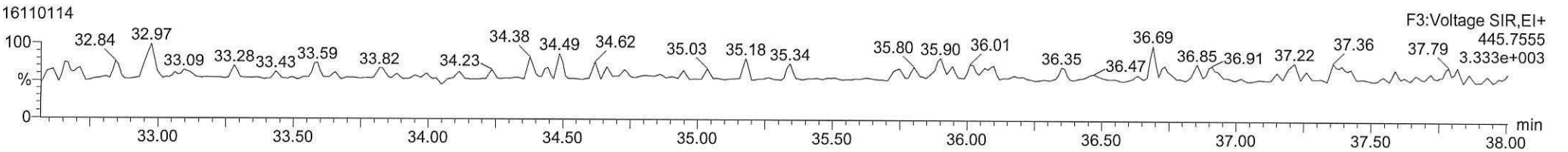


FUNCTION3 OCDPE



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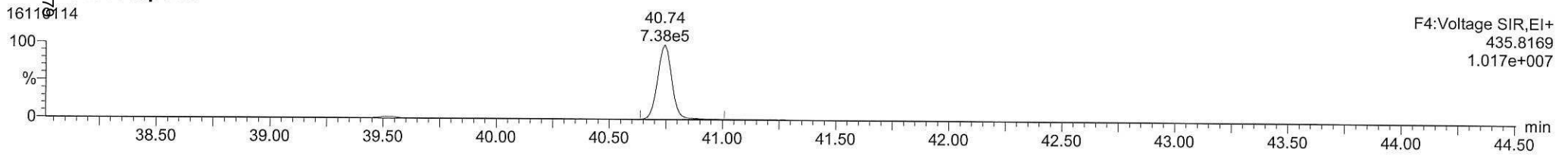
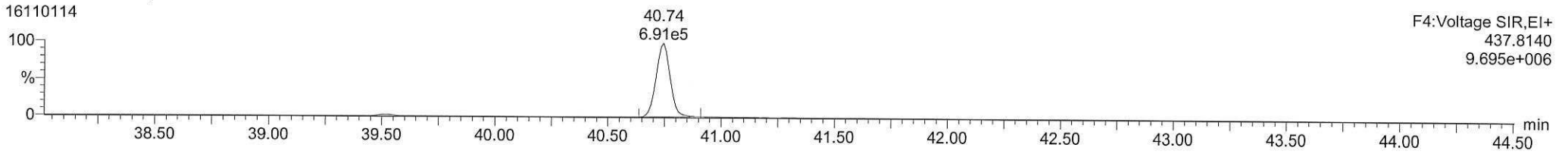
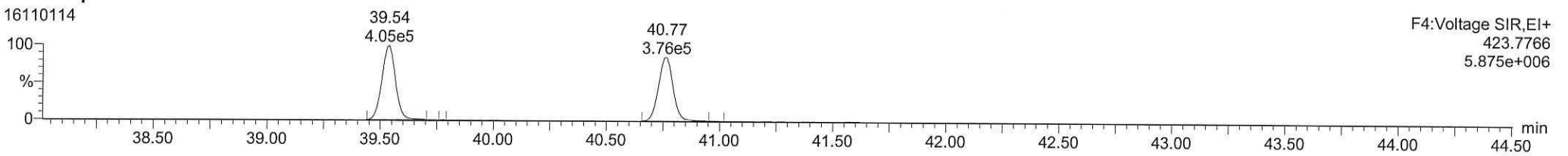
13C-1234678-HpCDD



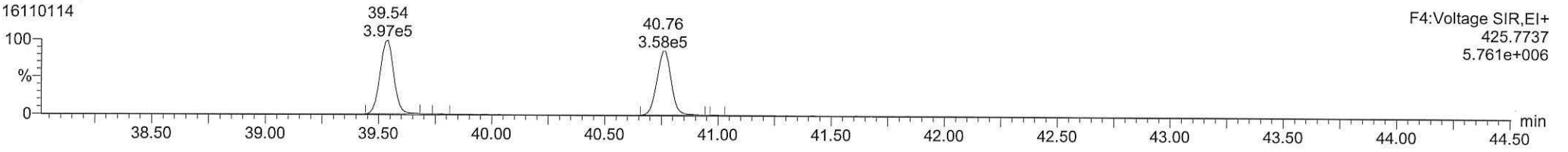
13C-1234678-HpCDD



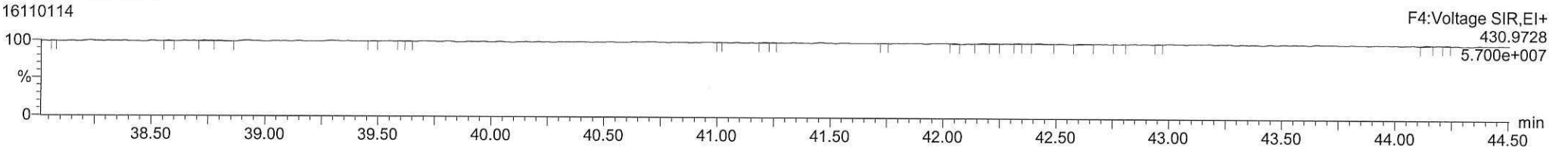
Total-heptadioxins



Total-heptadioxins

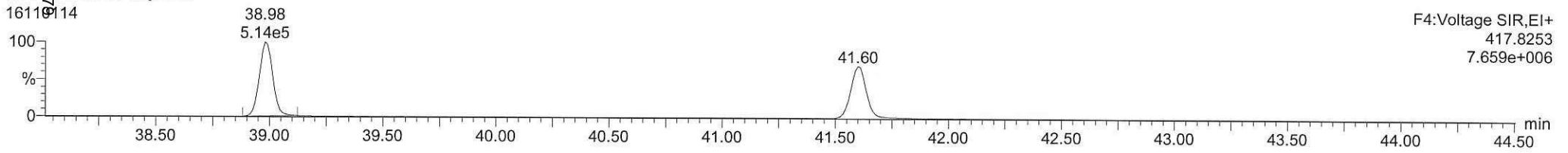


FUNCTION4 PFK



ID: CS302, Name: 16110114, Date: 01-Nov-2016, Time: 21:14:00, Conditions: AUTOSPEC01, User: PK

13C-1234678-HpCDF



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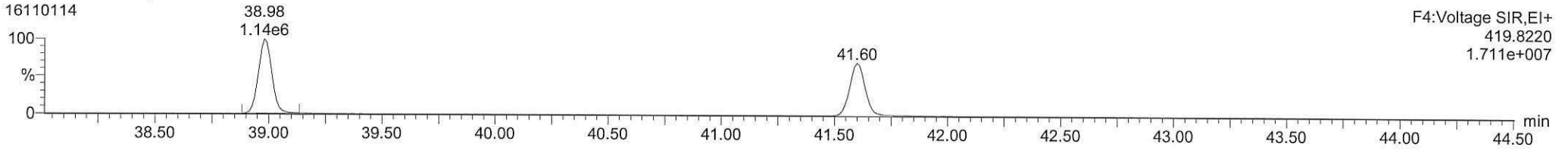
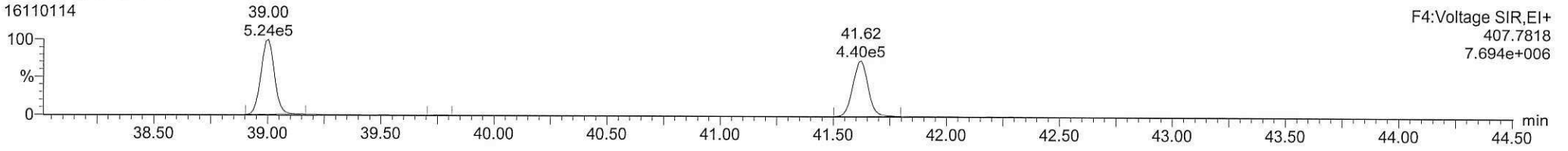
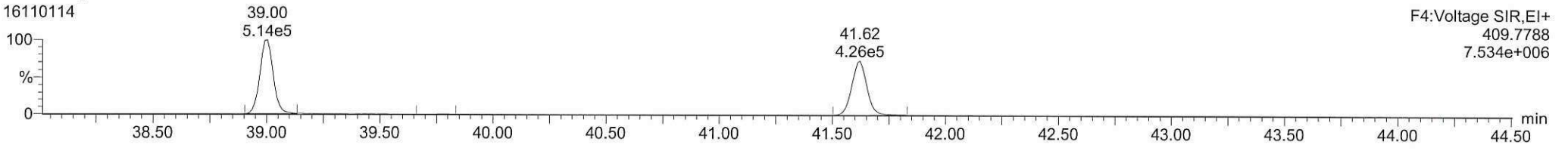


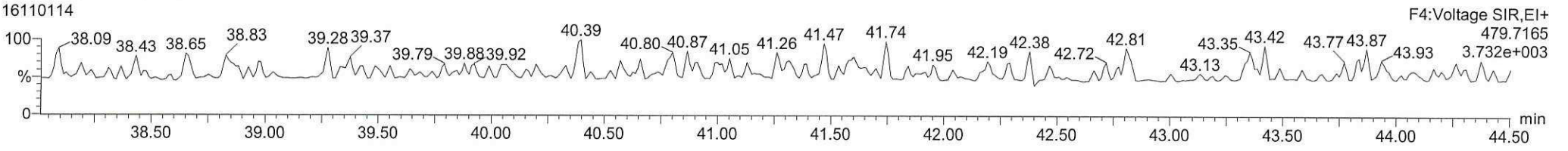
Total-heptafurans



Total-heptafurans

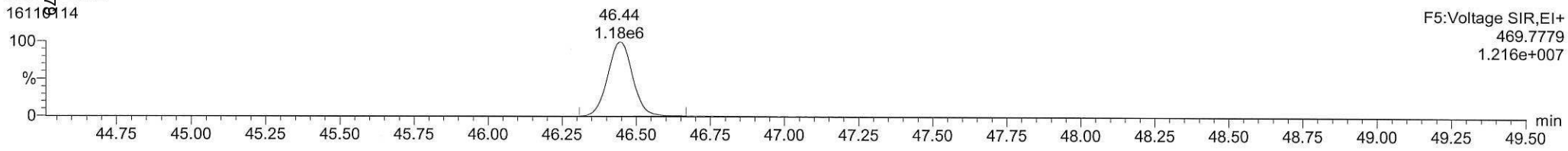


FUNCTION4 NCDPE



ID: CS302, Name: 16110114, Date: 01-Nov-2016, Time: 21:14:00, Conditions: AUTOSPEC01, User: PK

13C-OCDD



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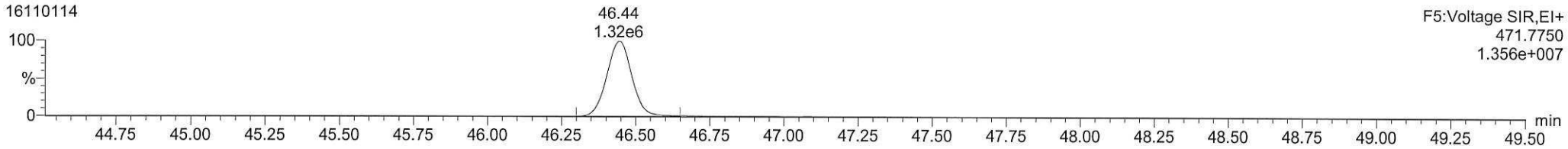

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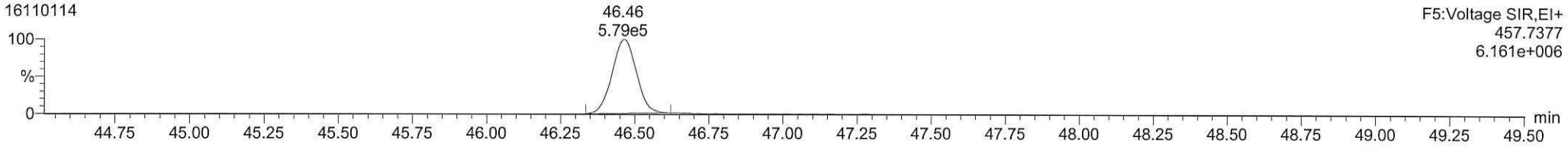

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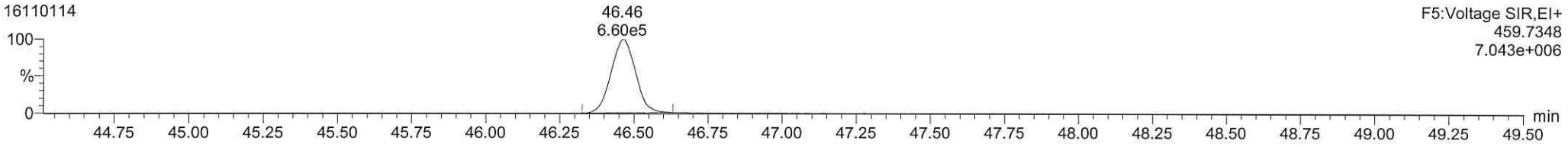
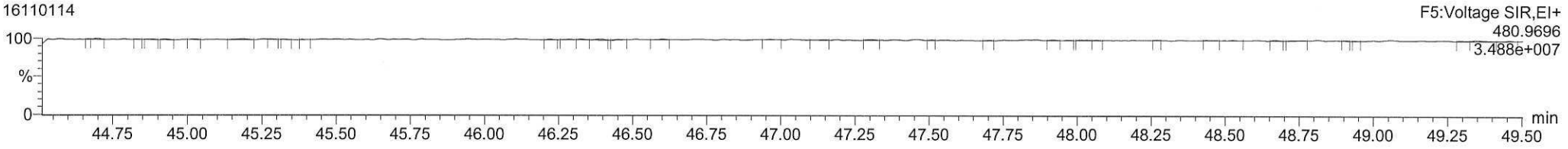


FUNCTION5 PFK



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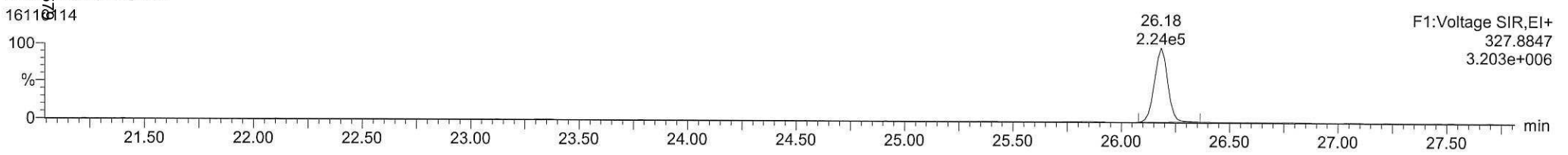
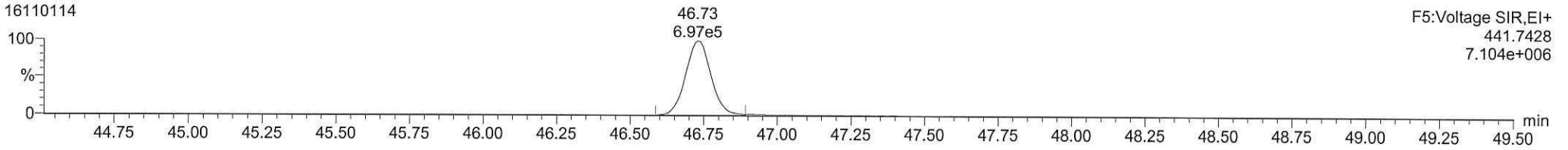
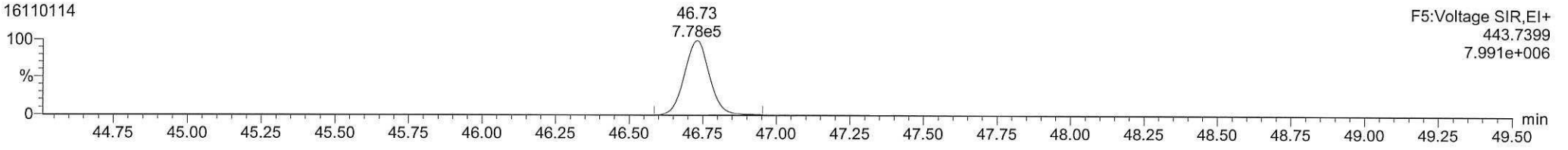
37Cl-2378-TCDD



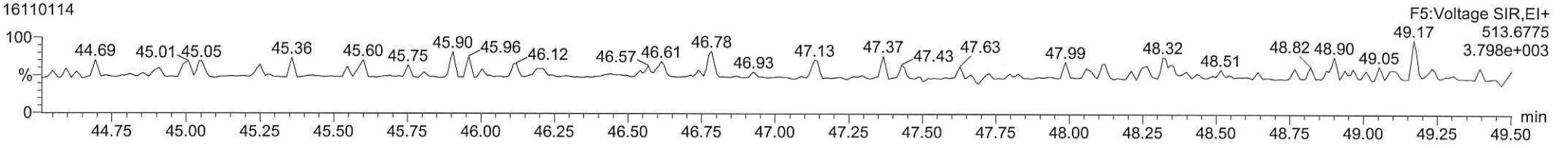
OCDF



OCDF



FUNCTION5 DCDPE



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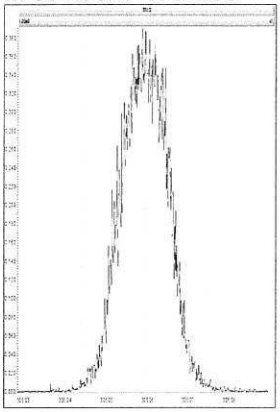
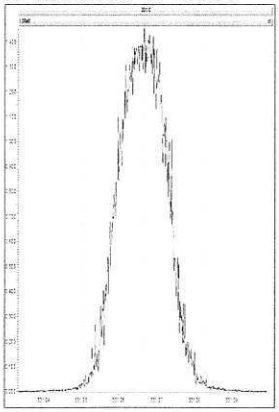
M 304.9824 R 12285



M 330.9792 R 12726



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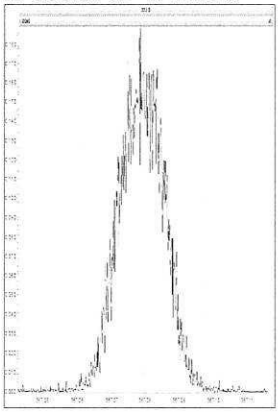
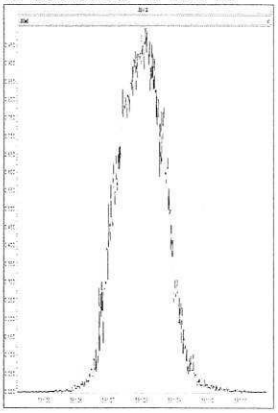


M 380.9760 R 12142



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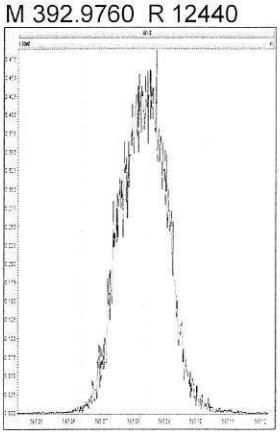
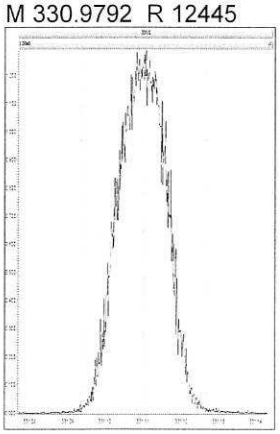
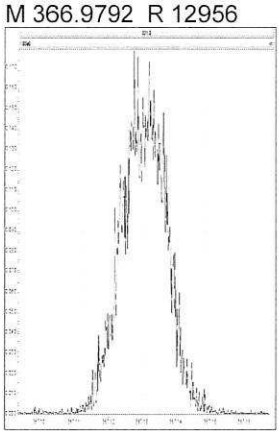


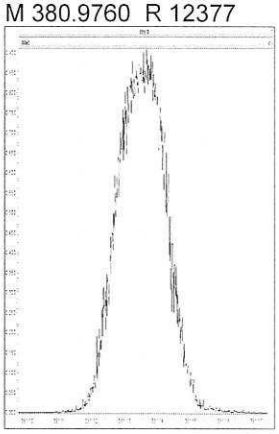
M 330.9792 R 12445



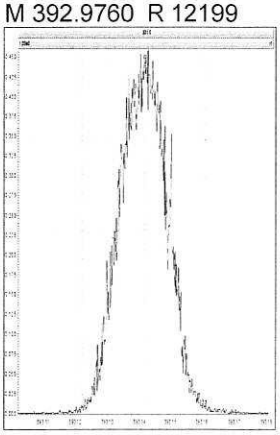
M 366.9792 R 12956



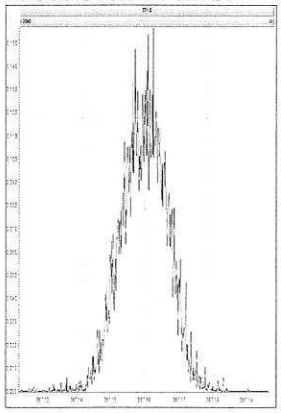
M 380.9760 R 12377



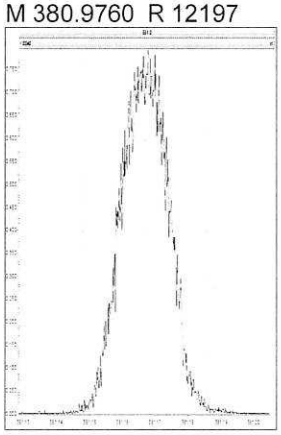
M 392.9760 R 12199



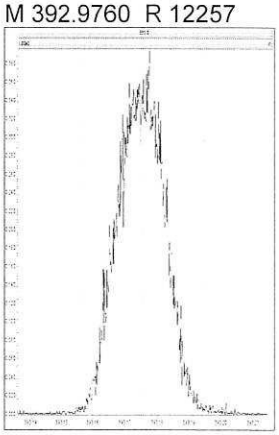
M 366.9792 R 12797



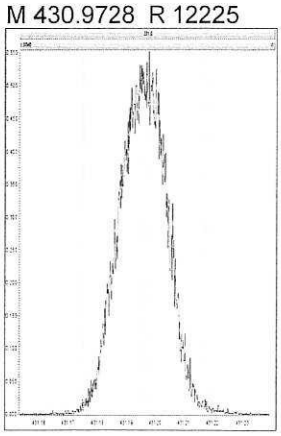
M 380.9760 R 12197



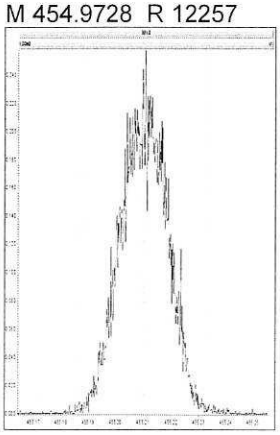
M 392.9760 R 12257



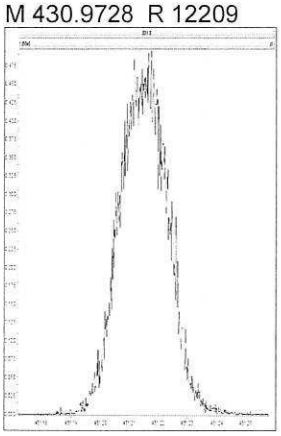
M 430.9728 R 12225



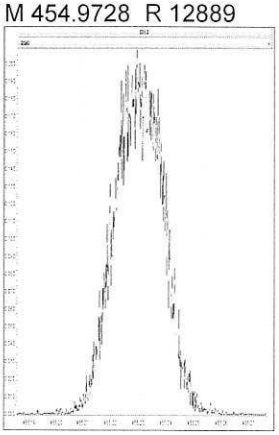
M 454.9728 R 12257



M 430.9728 R 12209



M 454.9728 R 12889



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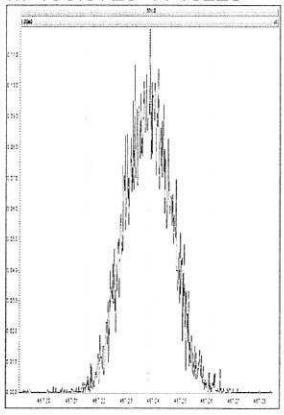
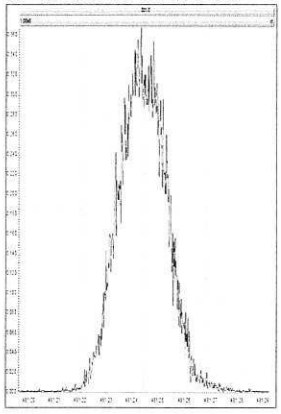
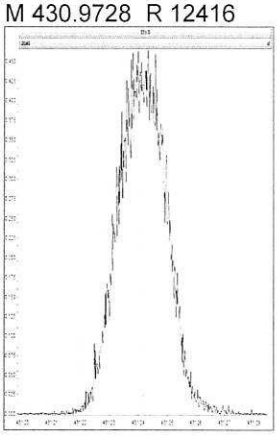
M 466.9728 R 13228



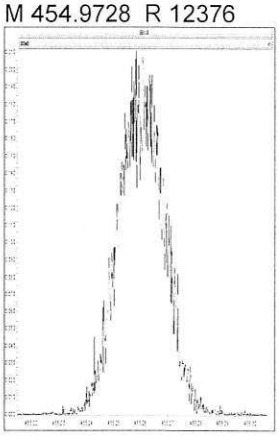
M 480.9696 R 12201



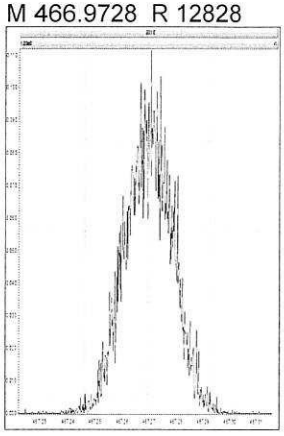
M 430.9728 R 12416



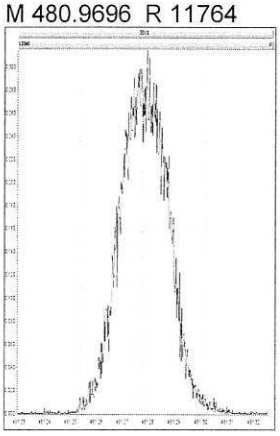
M 454.9728 R 12376



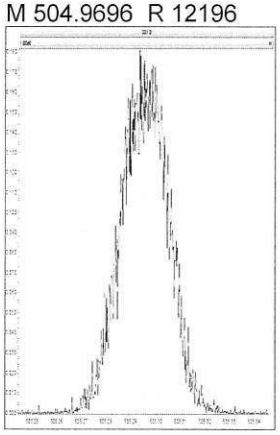
M 466.9728 R 12828



M 480.9696 R 11764



M 504.9696 R 12196



CDD/CDF CHROMATOGRAPHIC RESOLUTION SUMMARY
EPA 1613B

Lab Name: Analytical Resources, Inc. SDG: 16H0147

Instrument .ID: AUTOSPEC01 Lab File ID: 16110103

Date Analyzed: 11/01/16 Time Analyzed: 11:27

Lab Sample ID: SEJ0462-RES1 Sequence: SEJ0462

Percent Valley Determination for Column: RTX-Dioxin2 ID: 0.25 (mm)

1278-TCDD/2378-TCDD: 13.3

3467-TCDF/2378-TCDF: 16.5

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SEJ0462-ICV1	CS301	16110102	11/01/2016	10:35
SEJ0462-RES1	ISC01	16110103	11/01/2016	11:27
BEJ0775-BLK1	Blank	16110104	11/01/2016	12:23
BEJ0775-BS1	LCS	16110105	11/01/2016	13:15
16H0147-01	PG-T0-MUS-COC-160816	16110106	11/01/2016	14:08
SEJ0462-CCV1	CS302	16110114	11/01/2016	21:14

Analytical Resources, Incorporated

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, Inc.	SDG:	16H0147
Client:	Anchor QEA, LLC	Project:	Port Gamble Shellfish Monitoring
Sequence:	SEE0076	Instrument:	AUTOSPEC01
		Calibration:	ZE00016

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Cal Standard	SEE0076-CAL1	160510ICAL	Solid	05/10/16 13:36
Cal Standard	SEE0076-CAL2	160510ICAL	Solid	05/10/16 14:27
Cal Standard	SEE0076-CAL3	160510ICAL	Solid	05/10/16 15:30
Cal Standard	SEE0076-CAL4	160510ICAL	Solid	05/10/16 16:22
Cal Standard	SEE0076-CAL5	160510ICAL	Solid	05/10/16 17:15
Cal Standard	SEE0076-CAL6	160510ICAL	Solid	05/10/16 18:09

Analytical Resources, Incorporated

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, Inc.	SDG:	16H0147
Client:	Anchor QEA, LLC	Project:	Port Gamble Shellfish Monitoring
Sequence:	SEJ0462	Instrument:	AUTOSPEC01
		Calibration:	ZE00016

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Initial Cal Check	SEJ0462-ICV1	16110102	Tissue	11/01/16 10:35
Resolution Check	SEJ0462-RES1	16110103	Tissue	11/01/16 11:27
Blank	BEJ0775-BLK1	16110104	Tissue	11/01/16 12:23
LCS	BEJ0775-BS1	16110105	Tissue	11/01/16 13:15
PG-T0-MUS-COC-160816	16H0147-01	16110106	Tissue	11/01/16 14:08
Calibration Check	SEJ0462-CCV1	16110114	Tissue	11/01/16 21:14

Port Gamble Shellfish Monitoring
16H0147

Analysis	Matrix	Method
1613B Dioxin	Tissue	EPA 1613B

Checklist: DLM02.2 HR-GC/MS Checklist

#	Checklist Item	Response	Analyst Initials	Date
1	Resolution Check > 10,000 ppm	YES	PK	11/02/2016
2	TCDD/TCDF Resolution <= 25%	YES	PK	11/02/2016
3	PCDF markers >= 10 seconds from scan descriptor switch	YES	PK	11/02/2016
4	ICV/CCV meets %D limits	YES	PK	11/02/2016
5	ICV/CCV Ion ratios within limits	YES	PK	11/02/2016
6	ICV/CCV RRT within limits	YES	PK	11/02/2016
7	Manual integrations have been stamped and signed	NO	PK	11/02/2016
	Comments: *EXCEPTION REPORT REQUIRED*			
8	Signal/Noise >= 3.0 for all detectiions	YES	PK	11/02/2016
9	AUTOCHECK: Blank checked for exceedance of criteria	NO *	PK	11/02/2016

Comments:
QC Sample BEJ0775-BLK1 failed criteria for 1,2,3,4,6,7,8-HpCDD in 1613B Dioxin.
MDL = 0.580 ng/kg
MRL = 5.00 ng/kg
Result = 0.0625 ng/kg
Criterion = 0 x RL

QC Sample BEJ0775-BLK1 failed criteria for 1,2,3,7,8,9-HxCDF in 1613B Dioxin.
MDL = 0.490 ng/kg
MRL = 5.00 ng/kg
Result = 0.0899 ng/kg
Criterion = 0 x RL

QC Sample BEJ0775-BLK1 failed criteria for 1,2,3,7,8-PeCDF in 1613B Dioxin.
MDL = 0.470 ng/kg
MRL = 5.00 ng/kg
Result = 0.0396 ng/kg
Criterion = 0 x RL
- Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin

QC Sample BEJ0775-BLK1 failed criteria for OCDD in 1613B Dioxin.
MDL = 1.83 ng/kg
MRL = 10.0 ng/kg
Result = 0.933 ng/kg
Criterion = 0 x RL
- Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin

QC Sample BEJ0775-BLK1 failed criteria for OCDF in 1613B Dioxin.
MDL = 0.740 ng/kg

* = Indicates Automated Response from Element DataSyst

Port Gamble Shellfish Monitoring
16H0147

Analysis	Matrix	Method
1613B Dioxin	Tissue	EPA 1613B

Checklist: DLM02.2 HR-GC/MS Checklist

#	Checklist Item	Response	Analyst Initials	Date
	MRL = 10.0 ng/kg *Result = 0.0923 ng/kg* *Criterion = 0 x RL* *- Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin*			
	QC Sample BEJ0775-BLK1 failed criteria for Total HpCDD in 1613B Dioxin. *MRL = 1.00 ng/kg* *Result = 0.170 ng/kg* *Criterion = 0 x RL*			
	QC Sample BEJ0775-BLK1 failed criteria for Total HxCDF in 1613B Dioxin. *MRL = 1.00 ng/kg* *Result = 0.0899 ng/kg* *Criterion = 0 x RL*			
	QC Sample BEJ0775-BLK1 failed criteria for Total PeCDF in 1613B Dioxin. *MRL = 1.00 ng/kg* *Result = 0.0396 ng/kg* *Criterion = 0 x RL*			
	QC Sample BEJ0775-BLK1 failed criteria for Total TCDF in 1613B Dioxin. *MRL = 1.00 ng/kg* *Result = 0.0344 ng/kg* *Criterion = 0 x RL*			
10	AUTOCHECK: Check Extraction and Cleanup Surrogate recoveries	YES *	PK	11/02/2016
11	AUTOCHECK: Check blank spike (OPR) recovery	YES *	PK	11/02/2016
12	Sample values exceeding calibration range	NO	PK	11/02/2016
	Comments: *EXCEPTION REPORT REQUIRED*			
13	Samples diluted	NO	PK	11/02/2016
	Comments: *EXCEPTION REPORT REQUIRED*			
14	AUTOCHECK: Check %RPD between sample and sample duplicate	NA *	PK	11/02/2016
15	AUTOCHECK: Check SRM limits for exceedance	NA *	PK	11/02/2016
16	EPA CASE#			12/30/1899
17	Analyst chechlist completed (PEER)			12/30/1899
18	Data is locked and status is analyzed (PEER)			12/30/1899
19	Data file, Batch, and Cleanup .pdf's are attached (PEER)			12/30/1899

* = Indicates Automated Response from Element DataSyst

Port Gamble Shellfish Monitoring
16H0147

Analysis	Matrix	Method
1613B Dioxin	Tissue	EPA 1613B

Checklist: DLM02.2 HR-GC/MS Checklist

#	Checklist Item	Response	Analyst Initials	Date
20	Color warnings have been addressed and (or) qualified (PEER)			12/30/1899
21	Qualifiers have been correctly added (PEER)			12/30/1899
22	Checklist completed and status is peer reviewed (REVIEWER)			12/30/1899
23	Dilutions are linear (50-200%) and appropriate (REVIEWER)			12/30/1899
24	All requested samples have been reported (REVIEWER)			12/30/1899
25	Color warnings have been addressed, narrated and (or) qualified (REVIEWER)			12/30/1899
26	List of samples in this sequence that will require additional runs-verify reshot created (ANALYST)			12/30/1899
27	List of samples in this sequence that are re-analysis or dilutons of samples (ANALYST)			12/30/1899
28	Additional Notes (ANALYST, PEER, and REVIEWER)			12/30/1899

* = Indicates Automated Response from Element DataSyst

Analytical Resources Inc.: Organics Instrument Log

AutoSpec01 Serial No.:GC=CN10921030, MS=P764

Date: 11/1/16 Analysis: Dioxins Analyst: MK

GC Program: 8290D Column No: C3519 Column Type: XE-Dioxin2

Inj Vol: 1ul Instrument Tune (IPR): Sep2216 1-5 Detector Voltage: 350

Resolution Check Files: 10:28, 22:11 Curve Date: 5/10/16

IS/SS	Ical/Ccal	LCS/ICV
E710	E3891	
	E4948	

#	Acq.Date	Acq.Time	File	ID	Comments
1	01-Nov-16	10:35:53	16110102	CS301	
2	01-Nov-16	11:27:37	16110103	ISC01	SGJ0462
3	01-Nov-16	12:23:38	16110104	BEJ0775-BLK1	
4	01-Nov-16	13:15:02	16110105	BEJ0775-BS1	
5	01-Nov-16	14:08:18	16110106	16H0147-01	
6	01-Nov-16	15:01:29	16110107	16H0268-01	
7	01-Nov-16	15:54:45	16110108	16H0187-01	
8	01-Nov-16	16:47:55	16110109	16H0187-02	
9	01-Nov-16	17:41:04	16110110	16H0187-03	
10	01-Nov-16	18:34:13	16110111	16H0187-04	
11	01-Nov-16	19:27:32	16110112	16H0187-05	
12	01-Nov-16	20:20:40	16110113	16H0187-06	
13	01-Nov-16	21:14:00	16110114	CS302	
14	01-Nov-16	22:12:00	16110115	SURR E6047	

MK 11/2/16

Every line must contain information or be lined out. Make all entries legible.
Start a new page for each QC period. Document All Maintenance Tasks In Element LIMS

Quantify Audit Report MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\161101DATA1.qld
Last Altered: Tuesday, November 01, 2016 14:19:48 Pacific Daylight Time
Printed: Tuesday, November 01, 2016 14:20:46 Pacific Daylight Time

pk 11/2/16

Event	Details	Sample ID
Process Extract		
Process Integrate		
Process Quantify		
Dataset Created		
Pre modification peak	Sample:16110104, Compound:OF, RT:46.828	1
Peak modified	Sample:16110104, Compound:OF, RT:46.828	1
Pre modification peak	Sample:16110104, Compound:OF, RT:46.810	1
Peak modified	Sample:16110104, Compound:OF, RT:46.810	1
Peak modified	Sample:16110104, Compound:OF, RT:46.828	1
Pre modification peak	Sample:16110104, Compound:OF, RT:46.810	1
Peak modified	Sample:16110104, Compound:OF, RT:46.810	1
Peak deleted	Sample:16110104, Compound:TF, RT:25.720	1
Peak deleted	Sample:16110104, Compound:TF, RT:25.585	1
Pre modification peak	Sample:16110104, Compound:TF, RT:27.079	1
Peak modified	Sample:16110104, Compound:TF, RT:27.079	1
Peak deleted	Sample:16110104, Compound:PF, RT:31.045	1
Peak deleted	Sample:16110104, Compound:HF, RT:35.824	1
Pre modification peak	Sample:16110104, Compound:HF, RT:36.985	1
Peak modified	Sample:16110104, Compound:HF, RT:36.985	1
Peak deleted	Sample:16110104, Compound:HPF, RT:40.383	1
Peak deleted	Sample:16110104, Compound:HPF, RT:40.033	1
Peak deleted	Sample:16110104, Compound:HPF, RT:39.967	1
Peak deleted	Sample:16110104, Compound:HPF, RT:39.342	1
Peak deleted	Sample:16110104, Compound:PD, RT:29.685	1
Pre modification peak	Sample:16110104, Compound:HPD, RT:39.583	1
Peak modified	Sample:16110104, Compound:HPD, RT:39.583	1
Peak deleted	Sample:16110105, Compound:TF, RT:25.884	2
Peak deleted	Sample:16110105, Compound:HF, RT:35.111	2
Peak deleted	Sample:16110105, Compound:HF, RT:35.056	2
Peak deleted	Sample:16110105, Compound:HF, RT:36.043	2
Peak deleted	Sample:16110105, Compound:HD, RT:36.843	2
Peak deleted	Sample:16110105, Compound:HD, RT:36.931	2
Dataset Saved	Saved to 'C:\MassLynx\Dioxin.pro\161101DATA1.qld'	

Event	Details	Sample ID
Process Extract		
Process Integrate		
Process Quantify		
Dataset Created		
Dataset Saved	Saved to 'C:\MassLynx\Dioxin.pro\161101DATA2.qld'	
Pre modification peak	Sample:16110106, Compound:OF, RT:46.784	1
Peak modified	Sample:16110106, Compound:OF, RT:46.784	1
Peak deleted	Sample:16110106, Compound:TD, RT:26.213	1
Peak deleted	Sample:16110106, Compound:TF, RT:24.479	1
Peak deleted	Sample:16110106, Compound:TF, RT:24.270	1
Peak deleted	Sample:16110106, Compound:TF, RT:24.046	1
Peak deleted	Sample:16110106, Compound:TF, RT:23.822	1
Peak deleted	Sample:16110106, Compound:TF, RT:23.195	1
Peak deleted	Sample:16110106, Compound:TF, RT:24.704	1
Peak deleted	Sample:16110106, Compound:TF, RT:24.001	1
Peak deleted	Sample:16110106, Compound:TF, RT:26.631	1
Peak deleted	Sample:16110106, Compound:PP, RT:26.975	1
Peak deleted	Sample:16110106, Compound:PP, RT:26.930	1
Peak deleted	Sample:16110106, Compound:PF, RT:28.327	1
Peak deleted	Sample:16110106, Compound:PF, RT:28.294	1
Peak deleted	Sample:16110106, Compound:PF, RT:30.025	1
Peak deleted	Sample:16110106, Compound:PF, RT:32.152	1
Peak deleted	Sample:16110106, Compound:PF, RT:31.078	1
Peak deleted	Sample:16110106, Compound:HF, RT:33.204	1
Peak deleted	Sample:16110106, Compound:HF, RT:34.114	1
Peak deleted	Sample:16110106, Compound:HF, RT:34.059	1
Peak deleted	Sample:16110106, Compound:HF, RT:33.248	1
Peak deleted	Sample:16110106, Compound:HF, RT:34.815	1
Peak deleted	Sample:16110106, Compound:HF, RT:34.914	1
Peak deleted	Sample:16110106, Compound:HF, RT:34.859	1
Pre modification peak	Sample:16110106, Compound:HPF, RT:39.825	1
Peak modified	Sample:16110106, Compound:HPF, RT:39.825	1
Pre modification peak	Sample:16110106, Compound:HPF, RT:39.046	1
Peak modified	Sample:16110106, Compound:HPF, RT:39.046	1
Pre modification peak	Sample:16110106, Compound:HPF, RT:41.655	1
Peak modified	Sample:16110106, Compound:HPF, RT:41.655	1
Pre modification peak	Sample:16110106, Compound:HPF, RT:41.633	1
Peak modified	Sample:16110106, Compound:HPF, RT:41.633	1
Peak deleted	Sample:16110106, Compound:TD, RT:24.689	1
Peak deleted	Sample:16110106, Compound:TD, RT:24.569	1
Peak deleted	Sample:16110106, Compound:TD, RT:23.762	1
Peak deleted	Sample:16110106, Compound:PD, RT:28.612	1
Pre modification peak	Sample:16110106, Compound:PD, RT:31.286	1
Peak modified	Sample:16110106, Compound:PD, RT:31.286	1
Peak deleted	Sample:16110106, Compound:PD, RT:30.048	1
Pre modification peak	Sample:16110106, Compound:PD, RT:31.297	1
Peak modified	Sample:16110106, Compound:PD, RT:31.297	1
Peak deleted	Sample:16110106, Compound:HD, RT:35.035	1
Peak deleted	Sample:16110106, Compound:HD, RT:34.848	1
Peak deleted	Sample:16110106, Compound:HD, RT:34.706	1
Peak deleted	Sample:16110106, Compound:HD, RT:35.977	1
Peak deleted	Sample:16110106, Compound:HD, RT:35.769	1
Pre modification peak	Sample:16110106, Compound:HPD, RT:40.800	1

Event	Details	Sample ID
Peak modified	Sample:16110106, Compound:HPD, RT:40.800	1
Pre modification peak	Sample:16110107, Compound:OF, RT:46.793	2
Peak modified	Sample:16110107, Compound:OF, RT:46.793	2
Pre modification peak	Sample:16110107, Compound:OF, RT:46.856	2
Peak modified	Sample:16110107, Compound:OF, RT:46.856	2
Pre modification peak	Sample:16110107, Compound:OD, RT:46.560	2
Peak modified	Sample:16110107, Compound:OD, RT:46.560	2
Peak deleted	Sample:16110107, Compound:TF, RT:23.135	2
Peak deleted	Sample:16110107, Compound:TF, RT:22.941	2
Peak deleted	Sample:16110107, Compound:TF, RT:22.343	2
Peak deleted	Sample:16110107, Compound:TF, RT:22.074	2
Peak deleted	Sample:16110107, Compound:TF, RT:24.017	2
Peak deleted	Sample:16110107, Compound:TF, RT:23.837	2
Peak deleted	Sample:16110107, Compound:TF, RT:23.344	2
Peak deleted	Sample:16110107, Compound:TF, RT:25.316	2
Peak deleted	Sample:16110107, Compound:TF, RT:24.883	2
Peak deleted	Sample:16110107, Compound:TF, RT:24.674	2
Peak deleted	Sample:16110107, Compound:TF, RT:24.271	2
Pre modification peak	Sample:16110107, Compound:TF, RT:24.494	2
Peak modified	Sample:16110107, Compound:TF, RT:24.494	2
Peak deleted	Sample:16110107, Compound:TF, RT:26.825	2
Peak deleted	Sample:16110107, Compound:TF, RT:26.765	2
Peak deleted	Sample:16110107, Compound:TF, RT:25.809	2
Pre modification peak	Sample:16110107, Compound:PF, RT:28.568	2
Peak modified	Sample:16110107, Compound:PF, RT:28.568	2
Peak deleted	Sample:16110107, Compound:PF, RT:29.017	2
Peak deleted	Sample:16110107, Compound:PF, RT:28.930	2
Pre modification peak	Sample:16110107, Compound:PF, RT:28.568	2
Peak modified	Sample:16110107, Compound:PF, RT:28.568	2
Peak deleted	Sample:16110107, Compound:PF, RT:29.664	2
Peak deleted	Sample:16110107, Compound:PF, RT:31.089	2
Peak deleted	Sample:16110107, Compound:PF, RT:32.152	2
Peak deleted	Sample:16110107, Compound:HF, RT:34.761	2
Peak deleted	Sample:16110107, Compound:HPF, RT:39.189	2
Pre modification peak	Sample:16110107, Compound:HPF, RT:39.847	2
Peak modified	Sample:16110107, Compound:HPF, RT:39.847	2
Peak deleted	Sample:16110107, Compound:TD, RT:27.020	2
Peak deleted	Sample:16110107, Compound:TD, RT:26.213	2
Peak deleted	Sample:16110107, Compound:PD, RT:28.568	2
Peak deleted	Sample:16110107, Compound:HD, RT:35.813	2
Peak deleted	Sample:16110107, Compound:HD, RT:34.717	2
Pre modification peak	Sample:16110108, Compound:OF, RT:46.783	3
Peak modified	Sample:16110108, Compound:OF, RT:46.783	3
Pre modification peak	Sample:16110108, Compound:OF, RT:46.756	3
Peak modified	Sample:16110108, Compound:OF, RT:46.756	3
Peak deleted	Sample:16110108, Compound:TF, RT:22.089	3
Peak deleted	Sample:16110108, Compound:TF, RT:23.807	3
Peak deleted	Sample:16110108, Compound:TF, RT:23.702	3
Peak deleted	Sample:16110108, Compound:TF, RT:23.553	3
Peak deleted	Sample:16110108, Compound:TF, RT:23.329	3
Peak deleted	Sample:16110108, Compound:TF, RT:23.224	3
Peak deleted	Sample:16110108, Compound:TF, RT:23.075	3
Peak deleted	Sample:16110108, Compound:TF, RT:24.913	3

Event	Details	Sample ID
Peak deleted	Sample:16110108, Compound:TF, RT:24.255	3
Pre modification peak	Sample:16110108, Compound:TF, RT:24.509	3
Peak modified	Sample:16110108, Compound:TF, RT:24.509	3
Peak deleted	Sample:16110108, Compound:TF, RT:25.406	3
Peak deleted	Sample:16110108, Compound:TF, RT:25.316	3
Peak deleted	Sample:16110108, Compound:TF, RT:25.376	3
Pre modification peak	Sample:16110108, Compound:PF, RT:28.545	3
Peak modified	Sample:16110108, Compound:PF, RT:28.545	3
Pre modification peak	Sample:16110108, Compound:PF, RT:28.556	3
Peak modified	Sample:16110108, Compound:PF, RT:28.556	3
Peak deleted	Sample:16110108, Compound:HF, RT:34.070	3
Peak deleted	Sample:16110108, Compound:TD, RT:24.674	3
Peak deleted	Sample:16110108, Compound:PD, RT:28.655	3
Peak deleted	Sample:16110108, Compound:PD, RT:28.578	3
Peak deleted	Sample:16110108, Compound:PD, RT:31.308	3
Peak deleted	Sample:16110108, Compound:PD, RT:29.938	3
Peak deleted	Sample:16110108, Compound:HD, RT:34.936	3
Peak deleted	Sample:16110108, Compound:HD, RT:36.076	3
Pre modification peak	Sample:16110109, Compound:OF, RT:46.748	4
Peak modified	Sample:16110109, Compound:OF, RT:46.748	4
Pre modification peak	Sample:16110109, Compound:OF, RT:46.766	4
Peak modified	Sample:16110109, Compound:OF, RT:46.766	4
Peak deleted	Sample:16110109, Compound:TF, RT:22.223	4
Peak deleted	Sample:16110109, Compound:TF, RT:22.074	4
Peak deleted	Sample:16110109, Compound:TF, RT:23.777	4
Peak deleted	Sample:16110109, Compound:TF, RT:23.628	4
Peak deleted	Sample:16110109, Compound:TF, RT:23.314	4
Peak deleted	Sample:16110109, Compound:TF, RT:23.240	4
Peak deleted	Sample:16110109, Compound:TF, RT:23.090	4
Peak deleted	Sample:16110109, Compound:TF, RT:24.644	4
Peak deleted	Sample:16110109, Compound:TF, RT:24.240	4
Peak deleted	Sample:16110109, Compound:TF, RT:25.391	4
Peak deleted	Sample:16110109, Compound:TF, RT:25.286	4
Peak deleted	Sample:16110109, Compound:TF, RT:25.197	4
Peak deleted	Sample:16110109, Compound:TF, RT:25.077	4
Peak deleted	Sample:16110109, Compound:TF, RT:25.331	4
Peak deleted	Sample:16110109, Compound:TF, RT:25.047	4
Pre modification peak	Sample:16110109, Compound:PF, RT:28.546	4
Peak modified	Sample:16110109, Compound:PF, RT:28.546	4
Peak deleted	Sample:16110109, Compound:PF, RT:28.260	4
Peak deleted	Sample:16110109, Compound:PF, RT:28.305	4
Peak deleted	Sample:16110109, Compound:PF, RT:31.045	4
Peak deleted	Sample:16110109, Compound:PF, RT:30.058	4
Peak deleted	Sample:16110109, Compound:PF, RT:29.697	4
Peak deleted	Sample:16110109, Compound:HF, RT:34.848	4
Peak deleted	Sample:16110109, Compound:HF, RT:33.160	4
Peak deleted	Sample:16110109, Compound:HF, RT:36.920	4
Pre modification peak	Sample:16110109, Compound:HF, RT:36.964	4
Peak modified	Sample:16110109, Compound:HF, RT:36.964	4
Pre modification peak	Sample:16110109, Compound:HF, RT:36.953	4
Peak modified	Sample:16110109, Compound:HF, RT:36.953	4
Peak deleted	Sample:16110109, Compound:TD, RT:25.525	4
Peak deleted	Sample:16110109, Compound:PD, RT:29.708	4

Event	Details	Sample ID
Peak deleted	Sample:16110109, Compound:PD, RT:31.264	4
Peak deleted	Sample:16110109, Compound:HD, RT:35.089	4
Pre modification peak	Sample:16110109, Compound:HD, RT:34.991	4
Peak modified	Sample:16110109, Compound:HD, RT:34.991	4
Peak deleted	Sample:16110109, Compound:HD, RT:34.465	4
Peak deleted	Sample:16110109, Compound:HD, RT:34.015	4
Pre modification peak	Sample:16110109, Compound:HD, RT:34.991	4
Peak modified	Sample:16110109, Compound:HD, RT:34.991	4
Peak deleted	Sample:16110109, Compound:HD, RT:36.931	4
Peak deleted	Sample:16110109, Compound:HD, RT:36.492	4
Peak deleted	Sample:16110109, Compound:HD, RT:35.824	4
Pre modification peak	Sample:16110110, Compound:OF, RT:46.766	5
Peak modified	Sample:16110110, Compound:OF, RT:46.766	5
Pre modification peak	Sample:16110110, Compound:OF, RT:46.730	5
Peak modified	Sample:16110110, Compound:OF, RT:46.730	5
Peak deleted	Sample:16110110, Compound:TF, RT:22.089	5
Peak deleted	Sample:16110110, Compound:TF, RT:22.747	5
Peak deleted	Sample:16110110, Compound:TF, RT:22.328	5
Peak deleted	Sample:16110110, Compound:TF, RT:23.314	5
Peak deleted	Sample:16110110, Compound:TF, RT:23.075	5
Pre modification peak	Sample:16110110, Compound:TF, RT:22.941	5
Peak modified	Sample:16110110, Compound:TF, RT:22.941	5
Peak deleted	Sample:16110110, Compound:TF, RT:25.062	5
Peak deleted	Sample:16110110, Compound:TF, RT:24.868	5
Peak deleted	Sample:16110110, Compound:TF, RT:24.240	5
Peak deleted	Sample:16110110, Compound:TF, RT:25.361	5
Peak deleted	Sample:16110110, Compound:TF, RT:25.406	5
Peak deleted	Sample:16110110, Compound:TF, RT:26.795	5
Pre modification peak	Sample:16110110, Compound:TF, RT:25.824	5
Peak modified	Sample:16110110, Compound:TF, RT:25.824	5
Peak deleted	Sample:16110110, Compound:PF, RT:28.655	5
Peak deleted	Sample:16110110, Compound:PF, RT:31.034	5
Peak deleted	Sample:16110110, Compound:PF, RT:29.708	5
Peak deleted	Sample:16110110, Compound:HF, RT:34.092	5
Pre modification peak	Sample:16110110, Compound:HF, RT:34.049	5
Peak modified	Sample:16110110, Compound:HF, RT:34.049	5
Pre modification peak	Sample:16110110, Compound:HF, RT:36.953	5
Peak modified	Sample:16110110, Compound:HF, RT:36.953	5
Peak deleted	Sample:16110110, Compound:HF, RT:35.901	5
Pre modification peak	Sample:16110110, Compound:HF, RT:36.931	5
Peak modified	Sample:16110110, Compound:HF, RT:36.931	5
Peak deleted	Sample:16110110, Compound:TD, RT:26.183	5
Peak deleted	Sample:16110110, Compound:TD, RT:25.645	5
Peak deleted	Sample:16110110, Compound:TD, RT:25.406	5
Peak deleted	Sample:16110110, Compound:TD, RT:23.628	5
Peak deleted	Sample:16110110, Compound:TD, RT:24.539	5
Peak deleted	Sample:16110110, Compound:PD, RT:30.256	5
Peak deleted	Sample:16110110, Compound:PD, RT:29.916	5
Peak deleted	Sample:16110110, Compound:PD, RT:29.664	5
Pre modification peak	Sample:16110110, Compound:PD, RT:29.708	5
Peak modified	Sample:16110110, Compound:PD, RT:29.708	5
Pre modification peak	Sample:16110110, Compound:HD, RT:36.055	5
Peak deleted	Sample:16110110, Compound:HD, RT:35.002	5

Event	Details	Sample ID
Peak deleted	Sample:16110110, Compound:HD, RT:34.597	5
Pre modification peak	Sample:16110110, Compound:HD, RT:33.807	5
Peak modified	Sample:16110110, Compound:HD, RT:33.807	5
Pre modification peak	Sample:16110111, Compound:OF, RT:46.757	6
Peak modified	Sample:16110111, Compound:OF, RT:46.757	6
Pre modification peak	Sample:16110111, Compound:OF, RT:46.757	6
Peak modified	Sample:16110111, Compound:OF, RT:46.757	6
Peak deleted	Sample:16110111, Compound:TF, RT:22.074	6
Peak deleted	Sample:16110111, Compound:TF, RT:24.300	6
Peak deleted	Sample:16110111, Compound:TF, RT:24.240	6
Peak deleted	Sample:16110111, Compound:TF, RT:23.807	6
Peak deleted	Sample:16110111, Compound:TF, RT:23.553	6
Peak deleted	Sample:16110111, Compound:TF, RT:23.329	6
Pre modification peak	Sample:16110111, Compound:TF, RT:24.479	6
Peak modified	Sample:16110111, Compound:TF, RT:24.479	6
Peak deleted	Sample:16110111, Compound:TF, RT:24.868	6
Peak deleted	Sample:16110111, Compound:TF, RT:26.990	6
Pre modification peak	Sample:16110111, Compound:TF, RT:25.540	6
Peak modified	Sample:16110111, Compound:TF, RT:25.540	6
Pre modification peak	Sample:16110111, Compound:TF, RT:25.555	6
Peak modified	Sample:16110111, Compound:TF, RT:25.555	6
Peak deleted	Sample:16110111, Compound:PF, RT:28.162	6
Peak deleted	Sample:16110111, Compound:HF, RT:34.706	6
Peak deleted	Sample:16110111, Compound:TD, RT:24.823	6
Peak deleted	Sample:16110111, Compound:TD, RT:24.569	6
Peak deleted	Sample:16110111, Compound:TD, RT:23.583	6
Peak deleted	Sample:16110111, Compound:TD, RT:26.422	6
Peak deleted	Sample:16110111, Compound:TD, RT:25.824	6
Peak deleted	Sample:16110111, Compound:PD, RT:31.275	6
Peak deleted	Sample:16110111, Compound:PD, RT:29.993	6
Peak deleted	Sample:16110111, Compound:HD, RT:36.097	6
Peak deleted	Sample:16110112, Compound:TF, RT:22.343	7
Peak deleted	Sample:16110112, Compound:TF, RT:22.089	7
Peak deleted	Sample:16110112, Compound:TF, RT:23.673	7
Peak deleted	Sample:16110112, Compound:TF, RT:23.553	7
Peak deleted	Sample:16110112, Compound:TF, RT:23.419	7
Pre modification peak	Sample:16110112, Compound:TF, RT:22.911	7
Peak modified	Sample:16110112, Compound:TF, RT:22.911	7
Peak deleted	Sample:16110112, Compound:TF, RT:25.376	7
Peak deleted	Sample:16110112, Compound:TF, RT:24.226	7
Pre modification peak	Sample:16110112, Compound:TF, RT:25.779	7
Peak modified	Sample:16110112, Compound:TF, RT:25.779	7
Peak deleted	Sample:16110112, Compound:TF, RT:25.316	7
Peak deleted	Sample:16110112, Compound:PP, RT:27.109	7
Peak deleted	Sample:16110112, Compound:PP, RT:26.990	7
Peak deleted	Sample:16110112, Compound:PF, RT:28.294	7
Pre modification peak	Sample:16110112, Compound:PF, RT:29.708	7
Peak modified	Sample:16110112, Compound:PF, RT:29.708	7
Peak deleted	Sample:16110112, Compound:PF, RT:30.902	7
Peak deleted	Sample:16110112, Compound:PF, RT:31.023	7
Peak deleted	Sample:16110112, Compound:PF, RT:30.946	7
Pre modification peak	Sample:16110112, Compound:HF, RT:33.215	7
Peak modified	Sample:16110112, Compound:HF, RT:33.215	7

Event	Details	Sample ID
Peak deleted	Sample:16110112, Compound:HF, RT:35.824	7
Pre modification peak	Sample:16110112, Compound:HF, RT:34.037	7
Peak modified	Sample:16110112, Compound:HF, RT:34.037	7
Peak deleted	Sample:16110112, Compound:HF, RT:36.953	7
Pre modification peak	Sample:16110112, Compound:HPF, RT:39.036	7
Peak modified	Sample:16110112, Compound:HPF, RT:39.036	7
Peak deleted	Sample:16110112, Compound:TD, RT:26.003	7
Peak deleted	Sample:16110112, Compound:TD, RT:25.839	7
Peak deleted	Sample:16110112, Compound:TD, RT:25.376	7
Peak deleted	Sample:16110112, Compound:TD, RT:26.183	7
Pre modification peak	Sample:16110112, Compound:TD, RT:23.344	7
Peak modified	Sample:16110112, Compound:TD, RT:23.344	7
Peak deleted	Sample:16110112, Compound:PD, RT:28.557	7
Peak deleted	Sample:16110112, Compound:PD, RT:30.058	7
Peak deleted	Sample:16110112, Compound:PD, RT:30.025	7
Peak deleted	Sample:16110112, Compound:PD, RT:29.927	7
Peak deleted	Sample:16110112, Compound:PD, RT:29.686	7
Pre modification peak	Sample:16110112, Compound:HD, RT:33.785	7
Peak modified	Sample:16110112, Compound:HD, RT:33.785	7
Peak deleted	Sample:16110112, Compound:HD, RT:34.673	7
Peak deleted	Sample:16110112, Compound:HD, RT:34.607	7
Pre modification peak	Sample:16110112, Compound:HD, RT:36.515	7
Peak modified	Sample:16110112, Compound:HD, RT:36.515	7
Peak deleted	Sample:16110112, Compound:HD, RT:35.780	7
Pre modification peak	Sample:16110113, Compound:OF, RT:46.711	8
Peak modified	Sample:16110113, Compound:OF, RT:46.711	8
Pre modification peak	Sample:16110113, Compound:OF, RT:46.720	8
Peak modified	Sample:16110113, Compound:OF, RT:46.720	8
Peak deleted	Sample:16110113, Compound:TF, RT:24.898	8
Peak deleted	Sample:16110113, Compound:TF, RT:24.659	8
Peak deleted	Sample:16110113, Compound:TF, RT:22.911	8
Peak deleted	Sample:16110113, Compound:TF, RT:24.465	8
Peak deleted	Sample:16110113, Compound:TF, RT:25.809	8
Peak deleted	Sample:16110113, Compound:PP, RT:26.975	8
Peak deleted	Sample:16110113, Compound:PP, RT:26.915	8
Peak deleted	Sample:16110113, Compound:PF, RT:28.436	8
Peak deleted	Sample:16110113, Compound:PF, RT:28.206	8
Pre modification peak	Sample:16110113, Compound:PF, RT:28.524	8
Peak modified	Sample:16110113, Compound:PF, RT:28.524	8
Peak deleted	Sample:16110113, Compound:HF, RT:34.059	8
Peak deleted	Sample:16110113, Compound:TD, RT:25.839	8
Peak deleted	Sample:16110113, Compound:TD, RT:24.031	8
Peak deleted	Sample:16110113, Compound:TD, RT:23.613	8
Peak deleted	Sample:16110113, Compound:HD, RT:34.453	8
Peak deleted	Sample:16110113, Compound:HD, RT:33.785	8
Dataset Saved	Saved to 'C:\MassLynx\Dioxin.pro\161101DATA2.qld'	
Pre modification peak	Sample:16110108, Compound:TF, RT:25.570	3
Peak modified	Sample:16110108, Compound:TF, RT:25.570	3
Dataset Saved	Saved to 'C:\MassLynx\Dioxin.pro\161101DATA2.qld'	
Pre modification peak	Sample:16110110, Compound:TF, RT:25.555	5
Peak modified	Sample:16110110, Compound:TF, RT:25.555	5
Dataset Saved	Saved to 'C:\MassLynx\Dioxin.pro\161101DATA2.qld'	

Analytical Resources, Incorporated

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, Inc.	SDG:	16H0147
Client:	Anchor QEA, LLC	Project:	Port Gamble Shellfish Monitoring
Sequence:	SEJ0462	Instrument:	AUTOSPEC01
Sample ID:	SEJ0462-ICV1	Calibration:	ZE00016
File ID:	16110102	Analyzed:	11/01/16 10:35

Surrogate Compound	Spike Level ng/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	100.00	102	70 - 130	25.5848	26.20013	-0.6153	N/A	
13C12-2,3,7,8-TCDD	100.00	101	70 - 130	26.2272	26.84255	-0.6153	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	106	70 - 130	29.7182	30.36405	-0.6458	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	112	70 - 130	31.0663	31.70687	-0.6406	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	110	70 - 130	31.3185	31.9626	-0.6441	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	93.4	70 - 130	34.7273	35.39708	-0.6698	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	91.8	70 - 130	34.8807	35.5451	-0.6644	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	93.8	70 - 130	35.8233	36.48953	-0.6662	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	98.0	70 - 130	36.9742	37.62217	-0.6480	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	98.5	70 - 130	35.9658	36.6284	-0.6626	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	94.1	70 - 130	36.0865	36.75265	-0.6662	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	96.7	70 - 130	39.0348	39.70478	-0.6700	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	107	70 - 130	41.6437	42.43965	-0.7959	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	104	70 - 130	40.7887	41.53897	-0.7503	N/A	
13C12-OCDD	200.00	103	70 - 130	46.4962	47.53868	-1.0425	N/A	
37C14-2,3,7,8-TCDD	10.000	104	0 - 200	26.2422	26.85752	-0.6153	N/A	

* Values outside of QC limits

Analytical Resources, Incorporated

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, Inc.	SDG:	16H0147
Client:	Anchor QEA, LLC	Project:	Port Gamble Shellfish Monitoring
Sequence:	SEJ0462	Instrument:	AUTOSPEC01
Sample ID:	BEJ0775-BLK1	Calibration:	ZE00016
File ID:	16110104	Analyzed:	11/01/16 12:23

Surrogate Compound	Spike Level ng/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	200.00	93.3	24 - 169	25.5703	26.20013	-0.6298	N/A	
13C12-2,3,7,8-TCDD	200.00	91.4	25 - 164	26.1977	26.84255	-0.6448	N/A	
13C12-1,2,3,7,8-PeCDF	200.00	95.7	24 - 185	29.6965	30.36405	-0.6675	N/A	
13C12-2,3,4,7,8-PeCDF	200.00	101	21 - 178	31.0448	31.70687	-0.6621	N/A	
13C12-1,2,3,7,8-PeCDD	200.00	99.0	25 - 181	31.2968	31.9626	-0.6658	N/A	
13C12-1,2,3,4,7,8-HxCDF	200.00	77.6	26 - 152	34.7493	35.39708	-0.6478	N/A	
13C12-1,2,3,6,7,8-HxCDF	200.00	72.1	26 - 123	34.8918	35.5451	-0.6533	N/A	
13C12-2,3,4,6,7,8-HxCDF	200.00	76.5	28 - 136	35.8235	36.48953	-0.6660	N/A	
13C12-1,2,3,7,8,9-HxCDF	200.00	80.1	29 - 147	36.9742	37.62217	-0.6480	N/A	
13C12-1,2,3,4,7,8-HxCDD	200.00	83.8	32 - 141	35.9548	36.6284	-0.6736	N/A	
13C12-1,2,3,6,7,8-HxCDD	200.00	59.4	28 - 130	36.0755	36.75265	-0.6772	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	200.00	75.8	28 - 143	39.035	39.70478	-0.6698	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	200.00	83.3	26 - 138	41.6548	42.43965	-0.7848	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	200.00	86.6	23 - 140	40.7997	41.53897	-0.7393	N/A	
13C12-OCDD	400.00	68.8	17 - 157	46.5053	47.53868	-1.0334	N/A	
37C14-2,3,7,8-TCDD	80.000	109	35 - 197	26.2277	26.85752	-0.6298	N/A	

* Values outside of QC limits

Analytical Resources, Incorporated

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, Inc.	SDG:	16H0147
Client:	Anchor QEA, LLC	Project:	Port Gamble Shellfish Monitoring
Sequence:	SEJ0462	Instrument:	AUTOSPEC01
Sample ID:	BEJ0775-BS1	Calibration:	ZE00016
File ID:	16110105	Analyzed:	11/01/16 13:15

Surrogate Compound	Spike Level ng/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	200.00	80.9	24 - 169	25.5702	26.20013	-0.6299	N/A	
13C12-2,3,7,8-TCDD	200.00	78.3	25 - 164	26.1977	26.84255	-0.6448	N/A	
13C12-1,2,3,7,8-PeCDF	200.00	82.8	24 - 185	29.6967	30.36405	-0.6673	N/A	
13C12-2,3,4,7,8-PeCDF	200.00	87.9	21 - 178	31.0448	31.70687	-0.6621	N/A	
13C12-1,2,3,7,8-PeCDD	200.00	88.1	25 - 181	31.2968	31.9626	-0.6658	N/A	
13C12-1,2,3,4,7,8-HxCDF	200.00	69.3	26 - 152	34.7167	35.39708	-0.6804	N/A	
13C12-1,2,3,6,7,8-HxCDF	200.00	67.1	26 - 123	34.8702	35.5451	-0.6749	N/A	
13C12-2,3,4,6,7,8-HxCDF	200.00	69.1	28 - 136	35.8128	36.48953	-0.6767	N/A	
13C12-1,2,3,7,8,9-HxCDF	200.00	72.0	29 - 147	36.9635	37.62217	-0.6587	N/A	
13C12-1,2,3,4,7,8-HxCDD	200.00	77.0	32 - 141	35.9443	36.6284	-0.6841	N/A	
13C12-1,2,3,6,7,8-HxCDD	200.00	61.0	28 - 130	36.0648	36.75265	-0.6879	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	200.00	66.8	28 - 143	39.0352	39.70478	-0.6696	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	200.00	72.8	26 - 138	41.6658	42.43965	-0.7739	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	200.00	77.7	23 - 140	40.7998	41.53897	-0.7392	N/A	
13C12-OCDD	400.00	66.7	17 - 157	46.5143	47.53868	-1.0244	N/A	
37C14-2,3,7,8-TCDD	80.000	87.4	35 - 197	26.2125	26.85752	-0.6450	N/A	

* Values outside of QC limits

Analytical Resources, Incorporated

SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory:	Analytical Resources, Inc.	SDG:	16H0147
Client:	Anchor QEA, LLC	Project:	Port Gamble Shellfish Monitoring
Sequence:	SEJ0462	Instrument:	AUTOSPEC01
Sample ID:	16H0147-01	Calibration:	ZE00016
File ID:	16110106	Analyzed:	11/01/16 14:08

Surrogate Compound	Spike Level ng/kg	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
13C12-2,3,7,8-TCDF	199.60	93.6	24 - 169	25.5553	26.20013	-0.6448	N/A	
13C12-2,3,7,8-TCDD	199.60	96.2	25 - 164	26.1828	26.84255	-0.6597	N/A	
13C12-1,2,3,7,8-PeCDF	199.60	99.3	24 - 185	29.6857	30.36405	-0.6783	N/A	
13C12-2,3,4,7,8-PeCDF	199.60	107	21 - 178	31.034	31.70687	-0.6729	N/A	
13C12-1,2,3,7,8-PeCDD	199.60	107	25 - 181	31.286	31.9626	-0.6766	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.60	85.1	26 - 152	34.7058	35.39708	-0.6913	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.60	80.8	26 - 123	34.8593	35.5451	-0.6858	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.60	84.4	28 - 136	35.8018	36.48953	-0.6877	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.60	89.0	29 - 147	36.9527	37.62217	-0.6695	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.60	95.0	32 - 141	35.9443	36.6284	-0.6841	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.60	89.8	28 - 130	36.065	36.75265	-0.6877	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.60	82.3	28 - 143	39.0133	39.70478	-0.6915	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.60	90.0	26 - 138	41.6332	42.43965	-0.8064	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.60	94.6	23 - 140	40.7782	41.53897	-0.7608	N/A	
13C12-OCDD	399.20	84.5	17 - 157	46.479	47.53868	-1.0597	N/A	
37C14-2,3,7,8-TCDD	79.840	102	35 - 197	26.2127	26.85752	-0.6448	N/A	

* Values outside of QC limits

Analytical Resources, Incorporated

HOLDING TIME SUMMARY

Analysis: EPA 1613B

Laboratory: Analytical Resources, Inc. SDG: 16H0147

Client: Anchor QEA, LLC Project: Port Gamble Shellfish Monitoring

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PG-T0-MUS-COC-160816 16H0147-01	08/16/16 08:00	08/17/16 08:30	10/26/16 09:20	71	365	11/01/16 14:08	6	365	

* Indicates hold time exceedance.

Analytical Resources, Incorporated

METHOD DETECTION AND REPORTING LIMITS

EPA 1613B

Laboratory: Analytical Resources, Inc.
SDG: 16H0147
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Matrix: Solid
Instrument: AUTOSPEC01

Analyte	MDL	RL	Units
2,3,7,8-TCDF	0.244	1.00	ng/kg
2,3,7,8-TCDD	0.214	1.00	ng/kg
1,2,3,7,8-PeCDF	0.472	1.00	ng/kg
2,3,4,7,8-PeCDF	0.625	1.00	ng/kg
1,2,3,7,8-PeCDD	0.590	1.00	ng/kg
1,2,3,4,7,8-HxCDF	0.784	1.00	ng/kg
1,2,3,6,7,8-HxCDF	0.623	1.00	ng/kg
2,3,4,6,7,8-HxCDF	0.574	1.00	ng/kg
1,2,3,7,8,9-HxCDF	0.953	1.00	ng/kg
1,2,3,4,7,8-HxCDD	0.479	1.00	ng/kg
1,2,3,6,7,8-HxCDD	0.702	1.00	ng/kg
1,2,3,7,8,9-HxCDD	0.722	1.00	ng/kg
1,2,3,4,6,7,8-HpCDF	0.881	1.00	ng/kg
1,2,3,4,7,8,9-HpCDF	0.703	1.00	ng/kg
1,2,3,4,6,7,8-HpCDD	1.14	2.50	ng/kg
OCDF	1.77	2.00	ng/kg
OCDD	9.42	10.0	ng/kg

Analytical Resources, Incorporated

METHOD DETECTION AND REPORTING LIMITS

EPA 1613B

Laboratory: Analytical Resources, Inc. SDG: 16H0147

Client: Anchor QEA, LLC Project: Port Gamble Shellfish Monitoring

Matrix: Tissue Instrument: AUTOSPEC01

Analyte	MDL	RL	Units
2,3,7,8-TCDF	0.050	1.00	ng/kg
2,3,7,8-TCDD	0.160	1.00	ng/kg
1,2,3,7,8-PeCDF	0.470	5.00	ng/kg
2,3,4,7,8-PeCDF	0.410	5.00	ng/kg
1,2,3,7,8-PeCDD	0.490	5.00	ng/kg
1,2,3,4,7,8-HxCDF	0.440	5.00	ng/kg
1,2,3,6,7,8-HxCDF	0.390	5.00	ng/kg
2,3,4,6,7,8-HxCDF	0.410	5.00	ng/kg
1,2,3,7,8,9-HxCDF	0.490	5.00	ng/kg
1,2,3,4,7,8-HxCDD	0.480	5.00	ng/kg
1,2,3,6,7,8-HxCDD	0.370	5.00	ng/kg
1,2,3,7,8,9-HxCDD	0.350	5.00	ng/kg
1,2,3,4,6,7,8-HpCDF	0.470	5.00	ng/kg
1,2,3,4,7,8,9-HpCDF	0.450	5.00	ng/kg
1,2,3,4,6,7,8-HpCDD	0.580	5.00	ng/kg
OCDF	0.740	10.0	ng/kg
OCDD	1.83	10.0	ng/kg
Total TCDF		1.00	ng/kg
Total TCDD		1.00	ng/kg
Total PeCDF		1.00	ng/kg
Total PeCDD		1.00	ng/kg
Total HxCDF		1.00	ng/kg
Total HxCDD		1.00	ng/kg
Total HpCDF		1.00	ng/kg
Total HpCDD		1.00	ng/kg

Analytical Resources, Incorporated

Form I
INORGANIC ANALYSIS DATA SHEET

PG-T0-MUS-COC-160816

EPA 6010C
Total Metals

Laboratory: Analytical Resources, Inc. | Project: Port Gamble Shellfish Monitoring

Client: Anchor QEA, LLC | SDG: 16H0147

Matrix: Tissue | Laboratory ID: 16H0147-01 | File ID: I2161028-086

Sampled: 08/16/16 08:00 | Prepared: 10/26/16 07:22 | Analyzed: 10/28/16 16:28

Solids (wt%): 0.00 | Preparation: FRN Tissue Digestion ICP ICP-MS | Initial/Final: 2.522 g / 50 mL

Batch: BEJ0777 | Sequence: SEJ0466 | Calibration: ZJ00089 | Instrument: ICP2

CAS NO.	Analyte	Concentration (mg/kg wet)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium	0.994	1	0.0025	0.0397	

PREPARATION BATCH SUMMARY

EPA 6010C

Laboratory: Analytical Resources, Inc.
SDG: 16H0147
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Batch: BEJ0777 Batch Matrix: Tissue
Preparation: FRN Tissue Digestion ICP ICP-MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
PG-T0-MUS-COC-160816	16H0147-01	I2161028-086	10/26/16 07:22	
Blank	BEJ0777-BLK1	I2161028-081	10/26/16 07:22	
LCS	BEJ0777-BS1	I2161028-090	10/26/16 07:22	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Digestion Log

Analyst: MR Date: 10/26/16 Time: 0900

Matrix: Tissue Block ID: #1 Block Temp: 96°C Thermometer: MP89

ARI Sample ID	Btl #	pH<2	Prep Code: FRN Initial Wt (g) ~~Vol (mL)~~	Prep Code: FRN Final Vol (mL)	Prep Code: Initial Wt (g) Vol (mL)	Prep Code: Final Vol (mL)	Comments
16H147-1	A	-	2.522	50.0			
16H268-1	|	-	2.504	|		
* 16J187-1	|	-	2.566	|		
" 2	|	-	2.546	|		
" 3	|	-	2.502	|		
" 4	|	-	2.584	|		
" 5	|	-	2.520	|		
" 6	A	-	2.545	|		
BEJ777-BLK1	-	-	-	|		
" BS1	-	-	-	|		
" DUP1	-	-	2.571	|		S:16J187-1
" MS1	-	-	2.561	50.0			"

MR 10/26/16

Chemical/Reagent ID:

HNO_3: E7787 HCl: — H_2O_2: E3996 Tube Lot #: 151237

Analytical Resources, Incorporated

Form I

METHOD BLANK DATA SHEET

EPA 6010C

Total Metals

Blank

Batch: BEJ0777 Laboratory ID: BEJ0777-BLK1 Prepared: 10/26/16 07:22

Matrix: Tissue Preparation: FRN Tissue Digestion ICP Analyzed: 10/28/16 16:08

Sequence: SEJ0466 Calibration: ZJ00089 Instrument: ICP2

CAS NO.	Analyte	Concentration (mg/kg wet)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium	ND	1	0.0025	0.0400	U

Analytical Resources, Incorporated

INSTRUMENT BLANKS
EPA 6010C

Laboratory: Analytical Resources, Inc.
SDG: 16H0147
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Instrument ID: ICP2
Calibration: ZJ00089
Sequence: SEJ0466
Date Analyzed: 10/28/16 11:09

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SEJ0466-ICB1	Cadmium	-0.0002	0.0003	0.0020	mg/L	
SEJ0466-CCB1	Cadmium	0.00003	0.0003	0.0020	mg/L	
SEJ0466-CCB2	Cadmium	0.0001	0.0003	0.0020	mg/L	
SEJ0466-CCB3	Cadmium	-0.0002	0.0003	0.0020	mg/L	
SEJ0466-CCB4	Cadmium	-0.0002	0.0003	0.0020	mg/L	
SEJ0466-IBL1	Cadmium	0.0002	0.0003	0.0020	mg/L	
SEJ0466-CCB5	Cadmium	0.000008	0.0003	0.0020	mg/L	
SEJ0466-CCB6	Cadmium	-0.0001	0.0003	0.0020	mg/L	
SEJ0466-CCB7	Cadmium	0.0001	0.0003	0.0020	mg/L	
SEJ0466-CCB8	Cadmium	0.00004	0.0003	0.0020	mg/L	
SEJ0466-CCB9	Cadmium	0.00007	0.0003	0.0020	mg/L	

LCS / LCS DUPLICATE RECOVERY

EPA 6010C

Total Metals

Laboratory:	Analytical Resources, Inc.	SDG:	16H0147
Client:	Anchor QEA, LLC	Project:	Port Gamble Shellfish Monitoring
Matrix:	Tissue	Analyzed:	10/28/16 16:45
Batch:	BEJ0777	Laboratory ID:	BEJ0777-BS1
Preparation:	FRN Tissue Digestion ICP ICP-MS	Sequence Name:	LCS
Initial/Final:	2.5 g / 50 mL		

COMPOUND	SPIKE ADDED (mg/kg wet)	LCS CONCENTRATION (mg/kg wet)	LCS % REC. #	QC LIMITS REC.
Cadmium	10.0	9.79	97.9	80 - 120

* Values outside of QC limits

INITIAL CALIBRATION DATA

EPA 6010C

Laboratory:	Analytical Resources, Inc.	SDG:	16H0147
Client:	Anchor QEA, LLC	Project:	Port Gamble Shellfish Monitoring
Calibration:	ZJ00089	Instrument:	ICP2
Calibration Date:	10/28/2016 10:50		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Cadmium	0	0	10	17281.07	0		0		0			

INITIAL CALIBRATION DATA

EPA 6010C

Laboratory:	Analytical Resources, Inc.	SDG:	16H0147
Client:	Anchor QEA, LLC	Project:	Port Gamble Shellfish Monitoring
Calibration:	ZJ00089	Instrument:	ICP2
Calibration Date:	10/28/2016 10:50		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Cadmium	8640.535	141.4	1.0000			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SAMPLE RUN LOG-ICP-OES-02
Perkin Elmer OPTIMA 7300
Serial No. – 077C8121202

SEQ: SEJ0466

IEC Date: 10-18-16 Analysis Date: 10-28-16 Analyst: TH

LR Date: 10-18-16 Page: 1 of 4

All corrections made by analyst unless otherwise noted. TH 10-28-16

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		SEQ- CAL1	ES751		
		-CAL2	ES875		
		-CAL3	ES876		
		-CAL4	ES877		
		-CAL5	ES878		
		-ICV1	E2008		
		-ICB1	ES751		
		-CRL1	ES360		
		-IFA1	E4967		Sn ↓
		-IFB1	E4968		
		-CCV1	E2008		
		↓ -CCB1	ES751		
		BEJ0840-BLK2	WMN		Si only
		BEJ0734-BLK1	↓		
		↓ -DUP1			
		16J0366-~~01~~02			
		BEJ0734-MS1			0.080 mL ICP SPK (E4986)
		↓ -BS1			↓
		BEJ0840-DUP2			Si only
		16J0438-02			↓
		BEJ0840-MS2			0.008 mL E2323
		↓ -BS2	↓		↓ ↓
		SEQ- CCV2			
		↓ -CCB2			

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SAMPLE RUN LOG-ICP-OES-02
Perkin Elmer OPTIMA 7300
Serial No. – 077C8121202

IEC Date: — Analysis Date: 10-28-16 Analyst: TH

LR Date: — Page: 2 of 4

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		SEQ-CAL5			
		↓ -CCV3			
		↓ -CCB3			
		BEJ0759-BLK1	WMN		
		16J0378-07	↓		
		↓ -09			
		↓ -10			
		↓ -11			
		↓ -12			
		BEJ0759-DUP1			
		16J0378-08			
		BEJ0759-MS1			0.080mL ICP SPK (E1986)
		↓ -BS1	↓		↓
		SEQ-CCV4			
		↓ -CCB4			
	✓	BEJ0643-BLK1	WMN		missed tube
		16J0341-01	↓		
		16J0356-01			
		16J0341-03			
		↓ -04			
		BEJ0643-DUP1			2nd Na
		16J0341-02			↓
		BEJ0643-MS1			0.080mL (E1986) Ca, Fe, Mg, Mn, Na STL
		↓ -BS1	↓		↓

SAMPLE RUN LOG-ICP-OES-02
Perkin Elmer OPTIMA 7300
Serial No. – 077C8121202

IEC Date: — Analysis Date: 10-28-16 Analyst: TH

LR Date: — Page: 3 of 4

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		SEQ-IBL1			
		-CCV5			
		-CCB5			
		BEJ0633-BLK1	TWC		
		16J0341-05	WMN		
		-06			
		-07			
		-08			
		-09			
		BEJ0633-DUP1	TWC		
		16J0247-01			
		BEJ0633-MS1			
		-BS1			
		SEQ-CCV6			
		-CCB6			
		BEJ0643-BLK1	WMN		
		BEJ0795-BLK1	SWC	2	
		16J0433-03		5	2nd Na
		-04			
		16J0342-03			
		-02		2	
		BEJ0795-DUP1			Co, Cu, Mg, Ni: RPD↑ (ER)
		16J0342-01			
		BEJ0795-MS1			No Mo SPIKE (ER) Al, Ca, Fe, Mg STL Cu, Ni: %R↓

Analytical Resources, Incorporated
Analytical Chemists and Consultants

SAMPLE RUN LOG-ICP-OES-02
Perkin Elmer OPTIMA 7300
Serial No. – 077C8121202

IEC Date: — Analysis Date: 10-28-16 Analyst: TH

LR Date: — Page: 4 of 4

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		BEJ0795-BS1	SWC	2	No Mo Spike (ER)
		SEQ-CCV7			
		↓ -CCB7			
		BEJ0777-BLK1	FRN		
		16J0413-05	SWC	2	Mo NR
	✓	-06			Fe7LR
		-07			Mo NR.
	✓	-08			Ca7LR
		16H0147-01	FRN		
		BEJ0777-DUP1			
		16J0187-01			
		BEJ0777-MS1			ICP-MS Spk #1
		↓ -BS1		2	↓
		SEQ-CCV8			
		↓ -CCB8			
		16H0268-01	FRN		
		16J0187-02			
		-03			
		-04			
		-05			
		↓ -06			
		SEQ-CCV9			Na 330 ↑
		↓ -CCB9			
		Rinse/DI			

Nebulizer Parameters: Hg_ReAlign

Analyte	Back Pressure	Flow
All	136.0 kPa	0.65 L/min

10/28/2016 10:17:17 AM Hg ReAlign... Actual peak offset (nm): 0.003
Drift (nm): -0.000 Slit adjustment: 0

Nebulizer Parameters: Hg_ReAlign

Analyte	Back Pressure	Flow
All	136.0 kPa	0.65 L/min

10/28/2016 10:25:51 AM Hg ReAlign... Actual peak offset (nm): 0.003
Drift (nm): 0.000 Slit adjustment: 0

Analysis Begun

Start Time: 10/28/2016 10:29:39 AM **Plasma On Time: 10/28/2016 9:23:58 AM**
Logged In Analyst: metinst **Technique: ICP Continuous**
Spectrometer: Optima 7300 DV, S/N 077C8121202 **Autosampler: ESI**

Sample Information File: C:\pe\metals\Sample Information\BLKS.sif
Batch ID:
Results Data Set: I2161028
Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

Method Loaded
Method Name: ELMT7300bcESI2FAST **Method Last Saved: 12/7/2015 11:08:22 AM**
IEC File: IEC101816.iec **MSF File:**
Method Description: 12Axial Elements

Analyte	Calibration Equation	Processing	View	Internal Standard	IEC
Ag 328.068	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Al 308.215	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
As 188.979	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
B 249.677	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ba 233.527	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Be 313.042	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ca 317.933	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cd 228.802	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Co 228.616	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Cr 267.716	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Cu 324.752	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Fe 273.955	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
K 766.490	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Mg 279.077	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mn 257.610	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Mo 202.031	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Na 589.592	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Na 330.237	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Ni 231.604	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Pb 220.353	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sb 206.836	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Se 196.026	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Si 288.158	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Sn 189.927	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Sr 421.552	Lin Thru 0	Peak Area	Radial	ScR 361.383	No
Ti 334.903	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
Tl 190.801	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
V 292.402	Lin Thru 0	Peak Area	Axial	ScA 357.253	Yes
Zn 206.200	Lin Thru 0	Peak Area	Radial	ScR 361.383	Yes
ScA 357.253	Lin, Calc Int	Peak Area	Axial	n/a	n/a
ScR 361.383	Lin, Calc Int	Peak Area	Radial	n/a	n/a

Sequence No.: 1 **Autosampler Location: 1**

Analysis Begun

Start Time: 10/28/2016 10:50:18 AM
Logged In Analyst: metinst
Spectrometer: Optima 7300 DV, S/N 077C8121202
Plasma On Time: 10/28/2016 9:23:58 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\CRISETelmt.sif
Batch ID:
Results Data Set: I2161028
Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 1
Sample ID: SEQ-CAL1
Autosampler Location: 1
Date Collected: 10/28/2016 10:50:19 AM
Data Type: Original

Nebulizer Parameters: SEQ-CAL1

Analyte	Back Pressure	Flow
All	137.0 kPa	0.65 L/min

Mean Data: SEQ-CAL1

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1750489.2	12505.05	0.71%	100.0	%
ScR 361.383	192493.8	1148.04	0.60%	100.0	%
Ag 328.068†	-63.4	21.18	33.38%	[0.00]	mg/L
Al 308.215†	-76.9	5.41	7.03%	[0.00]	mg/L
As 188.979†	0.1	3.30	>999.9%	[0.00]	mg/L
B 249.677†	65.1	1.71	2.64%	[0.00]	mg/L
Ba 233.527†	-22.2	2.29	10.30%	[0.00]	mg/L
Be 313.042†	940.8	4.64	0.49%	[0.00]	mg/L
Ca 317.933†	-300.2	2.83	0.94%	[0.00]	mg/L
Cd 228.802†	208.6	2.82	1.35%	[0.00]	mg/L
Co 228.616†	-85.7	1.97	2.30%	[0.00]	mg/L
Cr 267.716†	-42.9	5.83	13.58%	[0.00]	mg/L
Cu 324.752†	719.5	24.66	3.43%	[0.00]	mg/L
Fe 273.955†	-97.3	3.49	3.58%	[0.00]	mg/L
K 766.490†	349.3	11.01	3.15%	[0.00]	mg/L
Mg 279.077†	-119.8	2.52	2.11%	[0.00]	mg/L
Mn 257.610†	-155.9	5.06	3.24%	[0.00]	mg/L
Mo 202.031†	49.1	6.39	13.01%	[0.00]	mg/L
Na 589.592†	233.7	6.52	2.79%	[0.00]	mg/L
Na 330.237†	-56.2	6.61	11.76%	[0.00]	mg/L
Ni 231.604†	-38.7	6.26	16.18%	[0.00]	mg/L
Pb 220.353†	14.4	5.38	37.34%	[0.00]	mg/L
Sb 206.836†	57.9	3.82	6.60%	[0.00]	mg/L
Se 196.026†	-22.4	3.77	16.81%	[0.00]	mg/L
Si 288.158†	55.1	1.89	3.44%	[0.00]	mg/L
Sn 189.927†	-8.6	4.54	52.63%	[0.00]	mg/L
Sr 421.552†	360.9	24.08	6.67%	[0.00]	mg/L
Ti 334.903†	323.3	15.24	4.71%	[0.00]	mg/L
Tl 190.801†	-40.8	1.91	4.68%	[0.00]	mg/L
V 292.402†	161.1	30.47	18.92%	[0.00]	mg/L
Zn 206.200†	-18.0	3.04	16.92%	[0.00]	mg/L

Sequence No.: 2
Sample ID: SEQ-CAL2
Autosampler Location: 2
Date Collected: 10/28/2016 10:54:20 AM
Data Type: Original

Nebulizer Parameters: SEQ-CAL2

Analyte	Back Pressure	Flow
All	137.0 kPa	0.65 L/min

Mean Data: SEQ-CAL2

Analyte	Mean Corrected	Calib

Analyte	Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	1756476.5	11805.78	0.67%	100.3	%
ScR 361.383	192607.2	1242.30	0.64%	100.1	%
Ba 233.527†	59316.6	297.40	0.50%	[10]	mg/L
Cd 228.802†	172810.7	535.65	0.31%	[10]	mg/L
Co 228.616†	252821.3	302.64	0.12%	[10]	mg/L
Cr 267.716†	57685.0	383.95	0.67%	[10]	mg/L
Cu 324.752†	1437964.5	1605.03	0.11%	[10]	mg/L
Mn 257.610†	297271.1	1619.77	0.54%	[10]	mg/L
V 292.402†	1015183.5	1103.19	0.11%	[10]	mg/L

Sequence No.: 3 **Autosampler Location: 3**
Sample ID: SEQ-CAL3 **Date Collected: 10/28/2016 10:56:06 AM**
Data Type: Original

Nebulizer Parameters: SEQ-CAL3

Analyte	Back Pressure	Flow
All	137.0 kPa	0.65 L/min

Mean Data: SEQ-CAL3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
ScA 357.253	1748901.4	13327.34	0.76%	99.91	%
ScR 361.383	192740.5	1490.74	0.77%	100.1	%
Ag 328.068†	129589.0	128.46	0.10%	[1.0]	mg/L
As 188.979†	12260.6	48.48	0.40%	[10]	mg/L
B 249.677†	51700.3	73.93	0.14%	[10]	mg/L
Be 313.042†	1648125.7	21152.29	1.28%	[5.0]	mg/L
Na 589.592†	374150.3	5124.46	1.37%	[50]	mg/L
Ni 231.604†	35756.9	69.20	0.19%	[10]	mg/L
Pb 220.353†	66202.6	240.81	0.36%	[10]	mg/L
Se 196.026†	9235.2	43.79	0.47%	[10]	mg/L
Sr 421.552†	2481294.7	29568.26	1.19%	[5]	mg/L
Tl 190.801†	14616.4	106.67	0.73%	[10]	mg/L
Zn 206.200†	31820.2	47.40	0.15%	[10]	mg/L

Sequence No.: 4 **Autosampler Location: 4**
Sample ID: SEQ-CAL4 **Date Collected: 10/28/2016 10:58:23 AM**
Data Type: Original

Nebulizer Parameters: SEQ-CAL4

Analyte	Back Pressure	Flow
All	137.0 kPa	0.65 L/min

Mean Data: SEQ-CAL4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc.	Units
ScA 357.253	1785605.8	6126.02	0.34%	102.0	%
ScR 361.383	194196.9	1362.80	0.70%	100.9	%
Mo 202.031†	155318.2	927.40	0.60%	[10]	mg/L
Sb 206.836†	24110.1	116.07	0.48%	[10]	mg/L
Si 288.158†	11739.4	64.47	0.55%	[10]	mg/L
Sn 189.927†	28959.5	175.32	0.61%	[10]	mg/L
Ti 334.903†	143716.3	403.88	0.28%	[10]	mg/L

Sequence No.: 5 **Autosampler Location: 5**
Sample ID: SEQ-CAL5 **Date Collected: 10/28/2016 11:00:37 AM**
Data Type: Original

Nebulizer Parameters: SEQ-CAL5

Analyte	Back Pressure	Flow
All	137.0 kPa	0.65 L/min

Mean Data: SEQ-CAL5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Calib Units
ScA 357.253	1672159.0	4239.78	0.25%	95.53	%
ScR 361.383	194889.3	2130.63	1.09%	101.2	%
Al 308.215†	27959.4	297.44	1.06%	[30]	mg/L
Ca 317.933†	210007.1	298.64	0.14%	[30]	mg/L
Fe 273.955†	77653.6	337.50	0.43%	[100]	mg/L
K 766.490†	120197.9	716.05	0.60%	[100]	mg/L
Mg 279.077†	23967.7	267.11	1.11%	[30]	mg/L
Na 330.237†	1686.5	23.45	1.39%	[100]	mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	129600	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	932.0	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1226	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	5170	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	5932	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	329600	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	7000	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	17280	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	25280	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	5769	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	143800	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	776.5	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	1202	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	798.9	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	29730	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	15530	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	7483	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	16.86	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	3576	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	6620	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	2411	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	923.5	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	1174	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	2896	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	496300	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	14370	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	1462	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	101500	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	3182	0.00000	1.000000	

Analysis Begun

Start Time: 10/28/2016 11:04:58 AM
Logged In Analyst: metinst
Spectrometer: Optima 7300 DV, S/N 077C8121202
Plasma On Time: 10/28/2016 9:23:58 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\CRISETelmt.sif
Batch ID:
Results Data Set: I2161028
Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 1
Sample ID: SEQ-ICV1
Autosampler Location: 7
Date Collected: 10/28/2016 11:04:59 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-ICV1

Analyte	Back Pressure	Flow
All	137.0 kPa	0.65 L/min

Mean Data: SEQ-ICV1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1771875.0	101.2	%	0.48				0.48%
ScR 361.383	191877.2	99.68	%	0.664				0.67%
Ag 328.068†	135177.5	1.043	mg/L	0.0127	1.043	mg/L	0.0127	1.22%
Al 308.215†	2018.2	2.132	mg/L	0.0156	2.132	mg/L	0.0156	0.73%
As 188.979†	2452.4	2.027	mg/L	0.0071	2.027	mg/L	0.0071	0.35%
B 249.677†	5301.0	1.024	mg/L	0.0075	1.024	mg/L	0.0075	0.74%
Ba 233.527†	6085.2	1.026	mg/L	0.0072	1.026	mg/L	0.0072	0.70%
Be 313.042†	337198.5	1.023	mg/L	0.0066	1.023	mg/L	0.0066	0.65%
Ca 317.933†	15182.8	2.169	mg/L	0.0123	2.169	mg/L	0.0123	0.57%
Cd 228.802†	17870.3	1.023	mg/L	0.0096	1.023	mg/L	0.0096	0.94%
Co 228.616†	25298.9	0.9987	mg/L	0.01187	0.9987	mg/L	0.01187	1.19%
Cr 267.716†	5951.0	1.030	mg/L	0.0067	1.030	mg/L	0.0067	0.65%
Cu 324.752†	144594.8	1.005	mg/L	0.0117	1.005	mg/L	0.0117	1.16%
Fe 273.955†	1659.4	2.129	mg/L	0.0063	2.129	mg/L	0.0063	0.29%
K 766.490†	25788.1	21.45	mg/L	0.126	21.45	mg/L	0.126	0.59%
Mg 279.077†	1710.9	2.149	mg/L	0.0074	2.149	mg/L	0.0074	0.34%
Mn 257.610†	29013.4	0.9766	mg/L	0.00659	0.9766	mg/L	0.00659	0.67%
Mo 202.031†	15155.6	0.9757	mg/L	0.01263	0.9757	mg/L	0.01263	1.29%
Na 589.592†	384233.1	51.35	mg/L	0.233	51.35	mg/L	0.233	0.45%
Na 330.237†	931.4	55.09	mg/L ✓	0.191	55.09	mg/L	0.191	0.35%
Ni 231.604†	3675.1	1.028	mg/L	0.0069	1.028	mg/L	0.0069	0.67%
Pb 220.353†	13155.2	1.988	mg/L	0.0256	1.988	mg/L	0.0256	1.29%
Sb 206.836†	5068.1	2.099	mg/L	0.0116	2.099	mg/L	0.0116	0.55%
Se 196.026†	1896.7	2.052	mg/L	0.0079	2.052	mg/L	0.0079	0.39%
Si 288.158†	2511.2	2.137	mg/L	0.0110	2.137	mg/L	0.0110	0.52%
Sn 189.927†	2887.5	0.9988	mg/L	0.00529	0.9988	mg/L	0.00529	0.53%
Sr 421.552†	511690.0	1.031	mg/L	0.0052	1.031	mg/L	0.0052	0.51%
Ti 334.903†	14646.2	1.018	mg/L	0.0053	1.018	mg/L	0.0053	0.53%
Tl 190.801†	2958.7	2.016	mg/L	0.0079	2.016	mg/L	0.0079	0.39%
V 292.402†	102960.0	1.019	mg/L	0.0112	1.019	mg/L	0.0112	1.10%
Zn 206.200†	3277.5	1.030	mg/L	0.0064	1.030	mg/L	0.0064	0.62%

Sequence No.: 2
Sample ID: SEQ-ICB1

Autosampler Location: 1
Date Collected: 10/28/2016 11:09:00 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-ICB1

Analyte	Back Pressure	Flow
All	138.0 kPa	0.65 L/min

Mean Data: SEQ-ICB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1767059.6	100.9	%	0.09				0.09%
ScR 361.383	193468.8	100.5	%	0.58				0.58%
Ag 328.068†	2.5	0.00002	mg/L	0.000192	0.00002	mg/L	0.000192	976.65%
Al 308.215†	0.5	0.00057	mg/L	0.002333	0.00057	mg/L	0.002333	409.77%
As 188.979†	4.9	0.00399	mg/L	0.000760	0.00399	mg/L	0.000760	19.07%
B 249.677†	17.5	0.00339	mg/L	0.000906	0.00339	mg/L	0.000906	26.73%
Ba 233.527†	3.2	0.00054	mg/L	0.000255	0.00054	mg/L	0.000255	47.41%
Be 313.042†	37.6	0.00011	mg/L	0.000030	0.00011	mg/L	0.000030	26.25%
Ca 317.933†	4.2	0.00060	mg/L	0.000910	0.00060	mg/L	0.000910	151.18%
Cd 228.802†	-3.1	-0.00021	mg/L	0.000114	-0.00021	mg/L	0.000114	55.01%
Co 228.616†	6.0	0.00024	mg/L	0.000214	0.00024	mg/L	0.000214	89.14%
Cr 267.716†	-0.8	-0.00014	mg/L	0.001228	-0.00014	mg/L	0.001228	847.17%
Cu 324.752†	15.5	0.00011	mg/L	0.000089	0.00011	mg/L	0.000089	82.54%
Fe 273.955†	-0.1	-0.00008	mg/L	0.000988	-0.00008	mg/L	0.000988	>999.9%
K 766.490†	28.0	0.02325	mg/L	0.007069	0.02325	mg/L	0.007069	30.40%
Mg 279.077†	0.5	0.00069	mg/L	0.007818	0.00069	mg/L	0.007818	>999.9%
Mn 257.610†	0.0	0.00000	mg/L	0.000194	0.00000	mg/L	0.000194	>999.9%
Mo 202.031†	11.9	0.00077	mg/L	0.000691	0.00077	mg/L	0.000691	89.95%
Na 589.592†	-0.7	-0.00009	mg/L	0.005848	-0.00009	mg/L	0.005848	>999.9%
Na 330.237†	4.0	0.2383	mg/L	0.67959	0.2383	mg/L	0.67959	285.13%
Ni 231.604†	-3.5	-0.00097	mg/L	0.000273	-0.00097	mg/L	0.000273	28.23%
Pb 220.353†	4.0	0.00060	mg/L	0.000731	0.00060	mg/L	0.000731	122.41%
Sb 206.836†	3.0	0.00126	mg/L	0.000627	0.00126	mg/L	0.000627	49.86%
Se 196.026†	0.3	0.00037	mg/L	0.004588	0.00037	mg/L	0.004588	>999.9%
Si 288.158†	-0.6	-0.00055	mg/L	0.005299	-0.00055	mg/L	0.005299	963.66%
Sn 189.927†	0.4	0.00013	mg/L	0.001170	0.00013	mg/L	0.001170	921.93%
Sr 421.552†	-18.7	-0.00004	mg/L	0.000041	-0.00004	mg/L	0.000041	108.52%
Ti 334.903†	-2.2	-0.00015	mg/L	0.001269	-0.00015	mg/L	0.001269	827.26%
Tl 190.801†	2.9	0.00198	mg/L	0.004235	0.00198	mg/L	0.004235	214.13%
V 292.402†	3.3	0.00003	mg/L	0.000139	0.00003	mg/L	0.000139	427.10%
Zn 206.200†	1.2	0.00039	mg/L	0.000693	0.00039	mg/L	0.000693	178.27%

Sequence No.: 3
Sample ID: SEQ-CRL1

Autosampler Location: 301
Date Collected: 10/28/2016 11:13:00 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CRL1

Analyte	Back Pressure	Flow
All	138.0 kPa	0.65 L/min

Mean Data: SEQ-CRL1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1761798.9	100.6	%	0.17				0.17%
ScR 361.383	195349.6	101.5	%	0.52				0.51%
Ag 328.068†	444.3	0.00343	mg/L	0.000330	0.00343	mg/L	0.000330	9.62%
Al 308.215†	50.2	0.05369	mg/L	0.003417	0.05369	mg/L	0.003417	6.37%
As 188.979†	66.6	0.05440	mg/L	0.001998	0.05440	mg/L	0.001998	3.67%
B 249.677†	119.6	0.02312	mg/L	0.000322	0.02312	mg/L	0.000322	1.39%
Ba 233.527†	21.0	0.00354	mg/L	0.000362	0.00354	mg/L	0.000362	10.22%
Be 313.042†	331.3	0.00100	mg/L	0.000056	0.00100	mg/L	0.000056	5.57%
Ca 317.933†	376.9	0.05383	mg/L	0.002778	0.05383	mg/L	0.002778	5.16%
Cd 228.802†	39.7	0.00197	mg/L	0.000241	0.00197	mg/L	0.000241	12.24%
Co 228.616†	84.0	0.00331	mg/L	0.000212	0.00331	mg/L	0.000212	6.41%
Cr 267.716†	30.9	0.00533	mg/L	0.001723	0.00533	mg/L	0.001723	32.31%
Cu 324.752†	323.2	0.00224	mg/L	0.000198	0.00224	mg/L	0.000198	8.84%
Fe 273.955†	43.5	0.05595	mg/L	0.001553	0.05595	mg/L	0.001553	2.78%
K 766.490†	690.3	0.5743	mg/L	0.02266	0.5743	mg/L	0.02266	3.95%
Mg 279.077†	38.3	0.04799	mg/L	0.000247	0.04799	mg/L	0.000247	0.52%
Mn 257.610†	25.2	0.00086	mg/L	0.000159	0.00086	mg/L	0.000159	18.59%
Mo 202.031†	83.4	0.00537	mg/L	0.000396	0.00537	mg/L	0.000396	7.37%
Na 589.592†	3766.8	0.5034	mg/L	0.00194	0.5034	mg/L	0.00194	0.39%
Na 330.237†	17.1	1.009	mg/L	0.6281	1.009	mg/L	0.6281	62.27%
Ni 231.604†	34.0	0.00950	mg/L	0.000589	0.00950	mg/L	0.000589	6.20%
Pb 220.353†	147.1	0.02223	mg/L	0.002008	0.02223	mg/L	0.002008	9.03%
Sb 206.836†	127.0	0.05269	mg/L	0.001622	0.05269	mg/L	0.001622	3.08%
Se 196.026†	45.0	0.04875	mg/L	0.007232	0.04875	mg/L	0.007232	14.84%
Si 288.158†	69.9	0.05956	mg/L	0.004756	0.05956	mg/L	0.004756	7.98%
Sn 189.927†	28.4	0.00983	mg/L	0.000958	0.00983	mg/L	0.000958	9.75%
Sr 421.552†	466.1	0.00094	mg/L	0.000068	0.00094	mg/L	0.000068	7.23%
Ti 334.903†	66.5	0.00462	mg/L	0.000630	0.00462	mg/L	0.000630	13.64%
Tl 190.801†	76.8	0.05249	mg/L	0.002645	0.05249	mg/L	0.002645	5.04%
V 292.402†	294.7	0.00292	mg/L	0.000124	0.00292	mg/L	0.000124	4.26%
Zn 206.200†	33.4	0.01050	mg/L	0.000765	0.01050	mg/L	0.000765	7.29%

Sequence No.: 4
Sample ID: SEQ-IFA1

Autosampler Location: 302
Date Collected: 10/28/2016 11:17:00 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-IFA1

Analyte	Back Pressure	Flow
All	137.0 kPa	0.65 L/min

Mean Data: SEQ-IFA1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1727566.1	98.69	%	0.392				0.40%
ScR 361.383	192335.1	99.92	%	0.423				0.42%
Ag 328.068†	-108.5	-0.00084	mg/L	0.000239	-0.00084	mg/L	0.000239	28.60%
Al 308.215†	194230.0	208.4	mg/L	0.86	208.4	mg/L	0.86	0.41%
As 188.979†	21.3	0.00269	mg/L	0.004211	0.00269	mg/L	0.004211	156.49%
B 249.677†	8.2	0.00159	mg/L	0.001855	0.00159	mg/L	0.001855	116.96%
Ba 233.527†	135.9	-0.00019	mg/L	0.000664	-0.00019	mg/L	0.000664	350.09%
Be 313.042†	79.7	0.00024	mg/L	0.000010	0.00024	mg/L	0.000010	4.01%
Ca 317.933†	740349.2	105.8	mg/L	0.30	105.8	mg/L	0.30	0.29%
Cd 228.802†	16.0	-0.00095	mg/L	0.000458	-0.00095	mg/L	0.000458	48.42%
Co 228.616†	42.3	0.00165	mg/L	0.000207	0.00165	mg/L	0.000207	12.50%
Cr 267.716†	-15.1	0.00026	mg/L	0.000451	0.00026	mg/L	0.000451	170.55%
Cu 324.752†	-1158.5	0.00176	mg/L	0.000089	0.00176	mg/L	0.000089	5.04%
Fe 273.955†	163678.2	210.8	mg/L	0.64	210.8	mg/L	0.64	0.30%
K 766.490†	48.8	0.04061	mg/L	0.014481	0.04061	mg/L	0.014481	35.66%
Mg 279.077†	85550.5	106.9	mg/L	0.23	106.9	mg/L	0.23	0.22%
Mn 257.610†	28.4	-0.00024	mg/L	0.000522	-0.00024	mg/L	0.000522	215.06%
Mo 202.031†	63.7	0.00255	mg/L	0.000249	0.00255	mg/L	0.000249	9.76%
Na 589.592†	-1.6	-0.00022	mg/L	0.003782	-0.00022	mg/L	0.003782	>999.9%
Na 330.237†	-2.9	-0.1693	mg/L	0.55350	-0.1693	mg/L	0.55350	326.84%
Ni 231.604†	-1.7	-0.00045	mg/L	0.001327	-0.00045	mg/L	0.001327	293.22%
Pb 220.353†	-318.8	0.00344	mg/L	0.001242	0.00344	mg/L	0.001242	36.15%
Sb 206.836†	46.4	0.01892	mg/L	0.001303	0.01892	mg/L	0.001303	6.89%
Se 196.026†	42.8	0.02496	mg/L	0.011036	0.02496	mg/L	0.011036	44.21%
Si 288.158†	-15.2	0.00180	mg/L	0.007097	0.00180	mg/L	0.007097	394.31%
Sn 189.927†	-132.5	-0.02170	mg/L	0.001813	-0.02170	mg/L	0.001813	8.35%
Sr 421.552†	3279.5	0.00661	mg/L	0.000056	0.00661	mg/L	0.000056	0.85%
Ti 334.903†	123.5	0.00099	mg/L	0.000400	0.00099	mg/L	0.000400	40.29%
Tl 190.801†	-36.0	-0.00491	mg/L	0.002826	-0.00491	mg/L	0.002826	57.52%
V 292.402†	651.3	-0.00161	mg/L	0.000444	-0.00161	mg/L	0.000444	27.58%
Zn 206.200†	0.6	0.00018	mg/L	0.001055	0.00018	mg/L	0.001055	599.23%

Sequence No.: 5
Sample ID: SEQ-IFB1

Autosampler Location: 303
Date Collected: 10/28/2016 11:21:14 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-IFB1

Analyte	Back Pressure	Flow
All	138.0 kPa	0.65 L/min

Mean Data: SEQ-IFB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1733902.3	99.05	%	0.514				0.52%
ScR 361.383	191314.6	99.39	%	0.626				0.63%
Ag 328.068†	129179.5	0.9971	mg/L	0.00459	0.9971	mg/L	0.00459	0.46%
Al 308.215†	194477.0	208.7	mg/L	0.56	208.7	mg/L	0.56	0.27%
As 188.979†	1233.1	0.9903	mg/L	0.00648	0.9903	mg/L	0.00648	0.65%
B 249.677†	3.0	-0.00200	mg/L	0.000961	-0.00200	mg/L	0.000961	47.95%
Ba 233.527†	6039.9	0.9951	mg/L	0.00554	0.9951	mg/L	0.00554	0.56%
Be 313.042†	333271.7	1.011	mg/L	0.0029	1.011	mg/L	0.0029	0.28%
Ca 317.933†	732609.1	104.7	mg/L	0.20	104.7	mg/L	0.20	0.20%
Cd 228.802†	17474.6	1.004	mg/L	0.0061	1.004	mg/L	0.0061	0.61%
Co 228.616†	23708.8	0.9375	mg/L	0.00555	0.9375	mg/L	0.00555	0.59%
Cr 267.716†	5742.4	0.9979	mg/L	0.00643	0.9979	mg/L	0.00643	0.64%
Cu 324.752†	138171.3	0.9709	mg/L	0.00192	0.9709	mg/L	0.00192	0.20%
Fe 273.955†	162997.7	209.9	mg/L	0.68	209.9	mg/L	0.68	0.32%
K 766.490†	75.4	0.06271	mg/L	0.007044	0.06271	mg/L	0.007044	11.23%
Mg 279.077†	82466.3	103.1	mg/L	0.20	103.1	mg/L	0.20	0.19%
Mn 257.610†	29323.2	0.9856	mg/L	0.00670	0.9856	mg/L	0.00670	0.68%
Mo 202.031†	62.5	0.00249	mg/L	0.000416	0.00249	mg/L	0.000416	16.75%
Na 589.592†	-79.2	-0.01058	mg/L	0.005745	-0.01058	mg/L	0.005745	54.28%
Na 330.237†	7.6	0.09719	mg/L	0.345016	0.09719	mg/L	0.345016	355.00%
Ni 231.604†	3449.3	0.9648	mg/L	0.00565	0.9648	mg/L	0.00565	0.59%
Pb 220.353†	6004.8	0.9591	mg/L	0.00533	0.9591	mg/L	0.00533	0.56%
Sb 206.836†	2515.8	1.031	mg/L	0.0084	1.031	mg/L	0.0084	0.81%
Se 196.026†	968.5	1.026	mg/L	0.0064	1.026	mg/L	0.0064	0.62%
Si 288.158†	-19.9	0.00035	mg/L	0.004674	0.00035	mg/L	0.004674	>999.9%
Sn 189.927†	-127.2	-0.01962	mg/L	0.000627	-0.01962	mg/L	0.000627	3.20%
Sr 421.552†	3191.6	0.00643	mg/L cont.	0.000039	0.00643	mg/L	0.000039	0.60%
Ti 334.903†	125.0	0.00095	mg/L	0.000211	0.00095	mg/L	0.000211	22.36%
Tl 190.801†	1334.7	0.9232	mg/L	0.00368	0.9232	mg/L	0.00368	0.40%
V 292.402†	97365.9	0.9558	mg/L	0.00278	0.9558	mg/L	0.00278	0.29%
Zn 206.200†	3064.8	0.9634	mg/L	0.00440	0.9634	mg/L	0.00440	0.46%

Sequence No.: 6
Sample ID: SEQ-CCV1

Autosampler Location: 7
Date Collected: 10/28/2016 11:26:23 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCV1

Analyte	Back Pressure	Flow
All	138.0 kPa	0.65 L/min

Mean Data: SEQ-CCV1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1773313.7	101.3	%	0.23				0.23%
ScR 361.383	194615.7	101.1	%	0.25				0.25%
Ag 328.068†	134074.6	1.035	mg/L	0.0019	1.035	mg/L	0.0019	0.18%
Al 308.215†	2003.8	2.117	mg/L	0.0165	2.117	mg/L	0.0165	0.78%
As 188.979†	2450.7	2.025	mg/L	0.0042	2.025	mg/L	0.0042	0.21%
B 249.677†	5243.7	1.013	mg/L	0.0030	1.013	mg/L	0.0030	0.30%
Ba 233.527†	6010.9	1.013	mg/L	0.0014	1.013	mg/L	0.0014	0.13%
Be 313.042†	334805.7	1.015	mg/L	0.0056	1.015	mg/L	0.0056	0.55%
Ca 317.933†	15126.3	2.161	mg/L	0.0064	2.161	mg/L	0.0064	0.30%
Cd 228.802†	17721.6	1.014	mg/L	0.0012	1.014	mg/L	0.0012	0.12%
Co 228.616†	25155.3	0.9930	mg/L	0.00209	0.9930	mg/L	0.00209	0.21%
Cr 267.716†	5921.0	1.025	mg/L	0.0010	1.025	mg/L	0.0010	0.10%
Cu 324.752†	143476.9	0.9973	mg/L	0.00080	0.9973	mg/L	0.00080	0.08%
Fe 273.955†	1659.5	2.129	mg/L	0.0078	2.129	mg/L	0.0078	0.37%
K 766.490†	25468.4	21.19	mg/L	0.065	21.19	mg/L	0.065	0.31%
Mg 279.077†	1698.8	2.134	mg/L	0.0014	2.134	mg/L	0.0014	0.06%
Mn 257.610†	28696.1	0.9659	mg/L	0.00564	0.9659	mg/L	0.00564	0.58%
Mo 202.031†	15097.4	0.9720	mg/L	0.00249	0.9720	mg/L	0.00249	0.26%
Na 589.592†	379229.8	50.68	mg/L	0.153	50.68	mg/L	0.153	0.30%
Na 330.237†	928.3	54.90	mg/L	0.063	54.90	mg/L	0.063	0.11%
Ni 231.604†	3656.9	1.023	mg/L	0.0007	1.023	mg/L	0.0007	0.07%
Pb 220.353†	13100.7	1.980	mg/L	0.0022	1.980	mg/L	0.0022	0.11%
Sb 206.836†	5070.7	2.101	mg/L	0.0049	2.101	mg/L	0.0049	0.23%
Se 196.026†	1883.7	2.038	mg/L	0.0064	2.038	mg/L	0.0064	0.31%
Si 288.158†	2487.7	2.117	mg/L	0.0072	2.117	mg/L	0.0072	0.34%
Sn 189.927†	2888.5	0.9992	mg/L	0.00333	0.9992	mg/L	0.00333	0.33%
Sr 421.552†	503754.0	1.015	mg/L	0.0046	1.015	mg/L	0.0046	0.45%
Ti 334.903†	14515.9	1.009	mg/L	0.0026	1.009	mg/L	0.0026	0.26%
Tl 190.801†	2944.7	2.006	mg/L	0.0070	2.006	mg/L	0.0070	0.35%
V 292.402†	101928.9	1.009	mg/L	0.0017	1.009	mg/L	0.0017	0.17%
Zn 206.200†	3255.2	1.023	mg/L	0.0019	1.023	mg/L	0.0019	0.19%

Sequence No.: 7
Sample ID: SEQ-CCB1

Autosampler Location: 1
Date Collected: 10/28/2016 11:30:25 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCB1

Analyte	Back Pressure	Flow
All	138.0 kPa	0.65 L/min

Mean Data: SEQ-CCB1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1778571.8	101.6	%	0.44				0.43%
ScR 361.383	194160.5	100.9	%	0.29				0.29%
Ag 328.068†	17.8	0.00014	mg/L	0.000271	0.00014	mg/L	0.000271	196.68%
Al 308.215†	1.8	0.00187	mg/L	0.007125	0.00187	mg/L	0.007125	380.18%
As 188.979†	2.3	0.00193	mg/L	0.002577	0.00193	mg/L	0.002577	133.52%
B 249.677†	13.4	0.00260	mg/L	0.001252	0.00260	mg/L	0.001252	48.19%
Ba 233.527†	0.2	0.00004	mg/L	0.000515	0.00004	mg/L	0.000515	>999.9%
Be 313.042†	42.0	0.00013	mg/L	0.000026	0.00013	mg/L	0.000026	20.70%
Ca 317.933†	17.1	0.00244	mg/L	0.002076	0.00244	mg/L	0.002076	85.19%
Cd 228.802†	0.7	0.00003	mg/L	0.000082	0.00003	mg/L	0.000082	291.30%
Co 228.616†	7.8	0.00031	mg/L	0.000184	0.00031	mg/L	0.000184	59.57%
Cr 267.716†	8.6	0.00148	mg/L	0.000829	0.00148	mg/L	0.000829	55.90%
Cu 324.752†	-3.5	-0.00002	mg/L	0.000084	-0.00002	mg/L	0.000084	336.81%
Fe 273.955†	4.7	0.00600	mg/L	0.000498	0.00600	mg/L	0.000498	8.31%
K 766.490†	46.9	0.03905	mg/L	0.037104	0.03905	mg/L	0.037104	95.01%
Mg 279.077†	-2.7	-0.00343	mg/L	0.002518	-0.00343	mg/L	0.002518	73.29%
Mn 257.610†	-2.6	-0.00009	mg/L	0.000104	-0.00009	mg/L	0.000104	117.93%
Mo 202.031†	8.9	0.00057	mg/L	0.000260	0.00057	mg/L	0.000260	45.46%
Na 589.592†	-67.0	-0.00896	mg/L	0.004448	-0.00896	mg/L	0.004448	49.67%
Na 330.237†	5.3	0.3146	mg/L	0.46440	0.3146	mg/L	0.46440	147.63%
Ni 231.604†	1.8	0.00049	mg/L	0.001361	0.00049	mg/L	0.001361	276.83%
Pb 220.353†	9.3	0.00141	mg/L	0.000986	0.00141	mg/L	0.000986	70.11%
Sb 206.836†	-3.0	-0.00127	mg/L	0.001312	-0.00127	mg/L	0.001312	103.56%
Se 196.026†	-2.2	-0.00243	mg/L	0.006149	-0.00243	mg/L	0.006149	253.00%
Si 288.158†	-1.5	-0.00128	mg/L	0.003619	-0.00128	mg/L	0.003619	283.13%
Sn 189.927†	0.2	0.00006	mg/L	0.001064	0.00006	mg/L	0.001064	>999.9%
Sr 421.552†	-13.2	-0.00003	mg/L	0.000055	-0.00003	mg/L	0.000055	208.93%
Ti 334.903†	13.6	0.00094	mg/L	0.000521	0.00094	mg/L	0.000521	55.16%
Tl 190.801†	1.4	0.00098	mg/L	0.001100	0.00098	mg/L	0.001100	112.44%
V 292.402†	10.9	0.00011	mg/L	0.000083	0.00011	mg/L	0.000083	73.41%
Zn 206.200†	1.5	0.00049	mg/L	0.001372	0.00049	mg/L	0.001372	282.64%

Sequence No.: 8
Sample ID: BEJ0840-BLK2

Autosampler Location: 304
Date Collected: 10/28/2016 11:34:25 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0840-BLK2

Analyte	Back Pressure	Flow
All	138.0 kPa	0.65 L/min

Mean Data: BEJ0840-BLK2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1810410.9	103.4	%	0.53				0.51%
ScR 361.383	197934.1	102.8	%	0.79				0.77%
Ag 328.068†	23.5	0.00018	mg/L	0.000209	0.00018	mg/L	0.000209	115.03%
Al 308.215†	6.9	0.00744	mg/L	0.008461	0.00744	mg/L	0.008461	113.71%
As 188.979†	2.8	0.00224	mg/L	0.002190	0.00224	mg/L	0.002190	97.66%
B 249.677†	4.8	0.00092	mg/L	0.001349	0.00092	mg/L	0.001349	145.94%
Ba 233.527†	4.2	0.00071	mg/L	0.001243	0.00071	mg/L	0.001243	175.78%
Be 313.042†	-12.8	-0.00004	mg/L	0.000024	-0.00004	mg/L	0.000024	61.31%
Ca 317.933†	156.6	0.02237	mg/L	0.000908	0.02237	mg/L	0.000908	4.06%
Cd 228.802†	1.4	0.00007	mg/L	0.000150	0.00007	mg/L	0.000150	227.69%
Co 228.616†	6.7	0.00027	mg/L	0.000036	0.00027	mg/L	0.000036	13.39%
Cr 267.716†	9.6	0.00166	mg/L	0.000395	0.00166	mg/L	0.000395	23.84%
Cu 324.752†	-10.2	-0.00007	mg/L	0.000097	-0.00007	mg/L	0.000097	136.47%
Fe 273.955†	5.5	0.00703	mg/L	0.000442	0.00703	mg/L	0.000442	6.29%
K 766.490†	20.2	0.01682	mg/L	0.007664	0.01682	mg/L	0.007664	45.55%
Mg 279.077†	0.7	0.00085	mg/L	0.008760	0.00085	mg/L	0.008760	>999.9%
Mn 257.610†	2.0	0.00007	mg/L	0.000214	0.00007	mg/L	0.000214	321.69%
Mo 202.031†	-1.8	-0.00012	mg/L	0.000211	-0.00012	mg/L	0.000211	182.43%
Na 589.592†	11.5	0.00153	mg/L	0.008988	0.00153	mg/L	0.008988	586.04%
Na 330.237†	11.5	0.6791	mg/L	0.53376	0.6791	mg/L	0.53376	78.59%
Ni 231.604†	0.6	0.00017	mg/L	0.001390	0.00017	mg/L	0.001390	819.18%
Pb 220.353†	8.2	0.00124	mg/L	0.001098	0.00124	mg/L	0.001098	88.64%
Sb 206.836†	-7.6	-0.00319	mg/L	0.001673	-0.00319	mg/L	0.001673	52.36%
Se 196.026†	5.6	0.00605	mg/L	0.003232	0.00605	mg/L	0.003232	53.41%
Si 288.158†	2.1	0.00181	mg/L	0.002489	0.00181	mg/L	0.002489	137.42%
Sn 189.927†	-1.2	-0.00042	mg/L	0.000720	-0.00042	mg/L	0.000720	170.91%
Sr 421.552†	9.9	0.00002	mg/L	0.000070	0.00002	mg/L	0.000070	353.36%
Ti 334.903†	-10.0	-0.00069	mg/L	0.000933	-0.00069	mg/L	0.000933	134.29%
Tl 190.801†	0.6	0.00039	mg/L	0.001473	0.00039	mg/L	0.001473	379.11%
V 292.402†	-5.6	-0.00005	mg/L	0.000212	-0.00005	mg/L	0.000212	441.12%
Zn 206.200†	4.9	0.00153	mg/L	0.000322	0.00153	mg/L	0.000322	21.04%

Sequence No.: 9
Sample ID: BEJ0734-BLK1

Autosampler Location: 305
Date Collected: 10/28/2016 11:38:26 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0734-BLK1

Analyte	Back Pressure	Flow
All	137.0 kPa	0.65 L/min

Mean Data: BEJ0734-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1805287.3	103.1	%	0.50				0.49%
ScR 361.383	199448.5	103.6	%	0.92				0.89%
Ag 328.068†	15.8	0.00012	mg/L	0.000281	0.00012	mg/L	0.000281	230.09%
Al 308.215†	84.3	0.09046	mg/L	0.006789	0.09046	mg/L	0.006789	7.51%
As 188.979†	3.5	0.00282	mg/L	0.002868	0.00282	mg/L	0.002868	101.62%
B 249.677†	88.5	0.01712	mg/L	0.000693	0.01712	mg/L	0.000693	4.05%
Ba 233.527†	-0.5	-0.00008	mg/L	0.000198	-0.00008	mg/L	0.000198	237.46%
Be 313.042†	1.1	0.00000	mg/L	0.000038	0.00000	mg/L	0.000038	>999.9%
Ca 317.933†	1387.4	0.1982	mg/L	0.00212	0.1982	mg/L	0.00212	1.07%
Cd 228.802†	3.5	0.00018	mg/L	0.000120	0.00018	mg/L	0.000120	65.90%
Co 228.616†	8.5	0.00034	mg/L	0.000152	0.00034	mg/L	0.000152	45.08%
Cr 267.716†	2.3	0.00040	mg/L	0.000879	0.00040	mg/L	0.000879	221.31%
Cu 324.752†	0.6	0.00000	mg/L	0.000161	0.00000	mg/L	0.000161	>999.9%
Fe 273.955†	9.9	0.01277	mg/L	0.002725	0.01277	mg/L	0.002725	21.35%
K 766.490†	35.9	0.02988	mg/L	0.007432	0.02988	mg/L	0.007432	24.87%
Mg 279.077†	5.8	0.00720	mg/L	0.004221	0.00720	mg/L	0.004221	58.60%
Mn 257.610†	2.0	0.00007	mg/L	0.000116	0.00007	mg/L	0.000116	177.35%
Mo 202.031†	1.0	0.00006	mg/L	0.000292	0.00006	mg/L	0.000292	488.43%
Na 589.592†	132.4	0.01770	mg/L	0.002913	0.01770	mg/L	0.002913	16.46%
Na 330.237†	11.3	0.6673	mg/L	0.81669	0.6673	mg/L	0.81669	122.39%
Ni 231.604†	-1.2	-0.00034	mg/L	0.000718	-0.00034	mg/L	0.000718	209.42%
Pb 220.353†	0.2	0.00005	mg/L	0.000674	0.00005	mg/L	0.000674	>999.9%
Sb 206.836†	-3.5	-0.00147	mg/L	0.001575	-0.00147	mg/L	0.001575	107.32%
Se 196.026†	-0.2	-0.00019	mg/L	0.005139	-0.00019	mg/L	0.005139	>999.9%
Si 288.158†	-7.8	-0.00667	mg/L	0.004026	-0.00667	mg/L	0.004026	60.35%
Sn 189.927†	-0.4	-0.00010	mg/L	0.000143	-0.00010	mg/L	0.000143	137.24%
Sr 421.552†	461.7	0.00093	mg/L	0.000049	0.00093	mg/L	0.000049	5.23%
Ti 334.903†	-11.7	-0.00083	mg/L	0.000942	-0.00083	mg/L	0.000942	114.11%
Tl 190.801†	1.7	0.00118	mg/L	0.000764	0.00118	mg/L	0.000764	64.95%
V 292.402†	19.3	0.00019	mg/L	0.000285	0.00019	mg/L	0.000285	148.06%
Zn 206.200†	3.6	0.00112	mg/L	0.000279	0.00112	mg/L	0.000279	24.87%

Sequence No.: 10
Sample ID: BEJ0734-DUP1

Autosampler Location: 306
Date Collected: 10/28/2016 11:42:25 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0734-DUP1

Analyte	Back Pressure	Flow
All	138.0 kPa	0.65 L/min

Mean Data: BEJ0734-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1803295.2	103.0	%	0.67				0.65%
ScR 361.383	199581.8	103.7	%	0.67				0.65%
Ag 328.068†	-71.0	-0.00055	mg/L	0.000250	-0.00055	mg/L	0.000250	45.74%
Al 308.215†	13.1	0.01398	mg/L	0.003095	0.01398	mg/L	0.003095	22.14%
As 188.979†	11.5	0.00739	mg/L	0.002506	0.00739	mg/L	0.002506	33.93%
B 249.677†	109.4	0.02116	mg/L	0.001109	0.02116	mg/L	0.001109	5.24%
Ba 233.527†	23.8	0.00402	mg/L	0.000241	0.00402	mg/L	0.000241	6.01%
Be 313.042†	15.8	0.00005	mg/L	0.000072	0.00005	mg/L	0.000072	151.56%
Ca 317.933†	241553.1	34.51	mg/L	0.133	34.51	mg/L	0.133	0.39%
Cd 228.802†	-4.0	-0.00029	mg/L	0.000153	-0.00029	mg/L	0.000153	53.36%
Co 228.616†	10.5	0.00041	mg/L	0.000126	0.00041	mg/L	0.000126	30.74%
Cr 267.716†	31.9	0.00432	mg/L	0.000974	0.00432	mg/L	0.000974	22.52%
Cu 324.752†	74.0	0.00039	mg/L	0.000065	0.00039	mg/L	0.000065	16.92%
Fe 273.955†	9.3	0.01198	mg/L	0.005645	0.01198	mg/L	0.005645	47.11%
K 766.490†	1733.7	1.442	mg/L	0.0111	1.442	mg/L	0.0111	0.77%
Mg 279.077†	12647.5	15.83	mg/L	0.073	15.83	mg/L	0.073	0.46%
Mn 257.610†	38.1	0.00115	mg/L	0.000057	0.00115	mg/L	0.000057	4.99%
Mo 202.031†	54.2	0.00298	mg/L	0.000170	0.00298	mg/L	0.000170	5.71%
Na 589.592†	71257.4	9.523	mg/L	0.0290	9.523	mg/L	0.0290	0.30%
Na 330.237†	173.1	10.27	mg/L	0.470	10.27	mg/L	0.470	4.58%
Ni 231.604†	9.7	0.00272	mg/L	0.001200	0.00272	mg/L	0.001200	44.14%
Pb 220.353†	-0.7	-0.00009	mg/L	0.001273	-0.00009	mg/L	0.001273	>999.9%
Sb 206.836†	-0.7	-0.00058	mg/L	0.001971	-0.00058	mg/L	0.001971	338.23%
Se 196.026†	9.8	0.01059	mg/L	0.004318	0.01059	mg/L	0.004318	40.78%
Si 288.158†	13209.4	11.25	mg/L	0.044	11.25	mg/L	0.044	0.39%
Sn 189.927†	-65.4	-0.01472	mg/L	0.001185	-0.01472	mg/L	0.001185	8.05%
Sr 421.552†	71974.4	0.1450	mg/L	0.00010	0.1450	mg/L	0.00010	0.07%
Ti 334.903†	27.3	-0.00058	mg/L	0.001209	-0.00058	mg/L	0.001209	208.11%
Tl 190.801†	6.2	0.00248	mg/L	0.003110	0.00248	mg/L	0.003110	125.55%
V 292.402†	237.8	0.00237	mg/L	0.000112	0.00237	mg/L	0.000112	4.74%
Zn 206.200†	-4.0	0.00096	mg/L	0.000439	0.00096	mg/L	0.000439	45.50%

Sequence No.: 11
Sample ID: 16J0366-02

Autosampler Location: 307
Date Collected: 10/28/2016 11:46:39 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0366-02

Analyte	Back Pressure	Flow
All	137.0 kPa	0.65 L/min

Mean Data: 16J0366-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1804901.8	103.1	%	0.86				0.84%
ScR 361.383	199116.2	103.4	%	0.58				0.56%
Ag 328.068†	-23.8	-0.00018	mg/L	0.000075	-0.00018	mg/L	0.000075	41.08%
Al 308.215†	22.6	0.02419	mg/L	0.007220	0.02419	mg/L	0.007220	29.85%
As 188.979†	10.6	0.00661	mg/L	0.002206	0.00661	mg/L	0.002206	33.36%
B 249.677†	104.0	0.02011	mg/L	0.001906	0.02011	mg/L	0.001906	9.48%
Ba 233.527†	25.4	0.00429	mg/L	0.000972	0.00429	mg/L	0.000972	22.68%
Be 313.042†	-10.4	-0.00003	mg/L	0.000012	-0.00003	mg/L	0.000012	38.43%
Ca 317.933†	241572.3	34.51	mg/L	0.155	34.51	mg/L	0.155	0.45%
Cd 228.802†	-4.7	-0.00032	mg/L	0.000218	-0.00032	mg/L	0.000218	67.59%
Co 228.616†	11.5	0.00045	mg/L	0.000295	0.00045	mg/L	0.000295	65.19%
Cr 267.716†	28.6	0.00378	mg/L	0.000745	0.00378	mg/L	0.000745	19.70%
Cu 324.752†	74.8	0.00039	mg/L	0.000201	0.00039	mg/L	0.000201	51.02%
Fe 273.955†	8.5	0.01098	mg/L	0.001581	0.01098	mg/L	0.001581	14.40%
K 766.490†	1713.4	1.425	mg/L	0.0154	1.425	mg/L	0.0154	1.08%
Mg 279.077†	12438.7	15.57	mg/L	0.045	15.57	mg/L	0.045	0.29%
Mn 257.610†	33.5	0.00100	mg/L	0.000213	0.00100	mg/L	0.000213	21.33%
Mo 202.031†	51.0	0.00278	mg/L	0.000350	0.00278	mg/L	0.000350	12.59%
Na 589.592†	71112.7	9.503	mg/L	0.0413	9.503	mg/L	0.0413	0.43%
Na 330.237†	168.0	9.965	mg/L	0.5745	9.965	mg/L	0.5745	5.76%
Ni 231.604†	12.8	0.00359	mg/L	0.000535	0.00359	mg/L	0.000535	14.89%
Pb 220.353†	-5.9	-0.00088	mg/L	0.000358	-0.00088	mg/L	0.000358	40.79%
Sb 206.836†	0.4	-0.00010	mg/L	0.002078	-0.00010	mg/L	0.002078	>999.9%
Se 196.026†	10.3	0.01113	mg/L	0.002515	0.01113	mg/L	0.002515	22.59%
Si 288.158†	13123.2	11.18	mg/L	0.018	11.18	mg/L	0.018	0.16%
Sn 189.927†	-62.0	-0.01354	mg/L	0.001143	-0.01354	mg/L	0.001143	8.44%
Sr 421.552†	71700.1	0.1445	mg/L	0.00028	0.1445	mg/L	0.00028	0.19%
Ti 334.903†	25.0	-0.00074	mg/L	0.000849	-0.00074	mg/L	0.000849	114.43%
Tl 190.801†	11.3	0.00593	mg/L	0.001925	0.00593	mg/L	0.001925	32.47%
V 292.402†	236.9	0.00236	mg/L	0.000118	0.00236	mg/L	0.000118	5.03%
Zn 206.200†	-4.8	0.00068	mg/L	0.000902	0.00068	mg/L	0.000902	131.78%

Sequence No.: 12
Sample ID: BEJ0734-MS1

Autosampler Location: 308
Date Collected: 10/28/2016 11:50:38 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0734-MS1

Analyte	Back Pressure	Flow
All	138.0 kPa	0.65 L/min

Mean Data: BEJ0734-MS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1782004.0	101.8	%	0.60				0.59%
ScR 361.383	198543.6	103.1	%	0.77				0.74%
Ag 328.068†	54170.7	0.4182	mg/L	0.00907	0.4182	mg/L	0.00907	2.17%
Al 308.215†	2014.5	2.154	mg/L	0.0140	2.154	mg/L	0.0140	0.65%
As 188.979†	2651.3	2.159	mg/L	0.0016	2.159	mg/L	0.0016	0.08%
B 249.677†	105.3	0.01898	mg/L	0.000500	0.01898	mg/L	0.000500	2.63%
Ba 233.527†	12123.8	2.044	mg/L	0.0232	2.044	mg/L	0.0232	1.13%
Be 313.042†	168953.9	0.5124	mg/L	0.00364	0.5124	mg/L	0.00364	0.71%
Ca 317.933†	313289.1	44.75	mg/L	0.325	44.75	mg/L	0.325	0.73%
Cd 228.802†	9322.6	0.5265	mg/L	0.00381	0.5265	mg/L	0.00381	0.72%
Co 228.616†	12870.6	0.5088	mg/L	0.00151	0.5088	mg/L	0.00151	0.30%
Cr 267.716†	2966.8	0.5114	mg/L	0.00411	0.5114	mg/L	0.00411	0.80%
Cu 324.752†	71085.6	0.4943	mg/L	0.00273	0.4943	mg/L	0.00273	0.55%
Fe 273.955†	1666.3	2.142	mg/L	0.0203	2.142	mg/L	0.0203	0.95%
K 766.490†	14785.9	12.30	mg/L	0.031	12.30	mg/L	0.031	0.25%
Mg 279.077†	21557.3	26.98	mg/L	0.250	26.98	mg/L	0.250	0.93%
Mn 257.610†	14845.7	0.4998	mg/L	0.00306	0.4998	mg/L	0.00306	0.61%
Mo 202.031†	62.4	0.00336	mg/L	0.000163	0.00336	mg/L	0.000163	4.85%
Na 589.592†	148229.6	19.81	mg/L	0.046	19.81	mg/L	0.046	0.23%
Na 330.237†	360.4	21.18	mg/L	0.322	21.18	mg/L	0.322	1.52%
Ni 231.604†	1800.2	0.5025	mg/L	0.00482	0.5025	mg/L	0.00482	0.96%
Pb 220.353†	13438.0	2.031	mg/L	0.0164	2.031	mg/L	0.0164	0.81%
Sb 206.836†	18.6	0.00138	mg/L	0.004253	0.00138	mg/L	0.004253	309.08%
Se 196.026†	2098.9	2.272	mg/L	0.0048	2.272	mg/L	0.0048	0.21%
Si 288.158†	13358.5	11.38	mg/L	0.084	11.38	mg/L	0.084	0.73%
Sn 189.927†	-77.6	-0.01654	mg/L	0.002049	-0.01654	mg/L	0.002049	12.39%
Sr 421.552†	323332.1	0.6515	mg/L	0.00192	0.6515	mg/L	0.00192	0.29%
Ti 334.903†	58.0	0.00069	mg/L	0.000121	0.00069	mg/L	0.000121	17.44%
Tl 190.801†	3074.9	2.096	mg/L	0.0085	2.096	mg/L	0.0085	0.40%
V 292.402†	52344.1	0.5179	mg/L	0.00328	0.5179	mg/L	0.00328	0.63%
Zn 206.200†	1615.1	0.5100	mg/L	0.00695	0.5100	mg/L	0.00695	1.36%

Sequence No.: 13
Sample ID: BEJ0734-BS1

Autosampler Location: 309
Date Collected: 10/28/2016 11:56:30 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0734-BS1

Analyte	Back Pressure	Flow
All	137.0 kPa	0.65 L/min

Mean Data: BEJ0734-BS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1799535.6	102.8	%	0.86				0.83%
ScR 361.383	197907.0	102.8	%	0.34				0.33%
Ag 328.068†	73294.7	0.5657	mg/L	0.00364	0.5657	mg/L	0.00364	0.64%
Al 308.215†	2127.3	2.275	mg/L	0.0076	2.275	mg/L	0.0076	0.33%
As 188.979†	2594.0	2.115	mg/L	0.0108	2.115	mg/L	0.0108	0.51%
B 249.677†	92.5	0.01649	mg/L	0.002536	0.01649	mg/L	0.002536	15.38%
Ba 233.527†	11986.4	2.020	mg/L	0.0116	2.020	mg/L	0.0116	0.57%
Be 313.042†	167017.4	0.5066	mg/L	0.00502	0.5066	mg/L	0.00502	0.99%
Ca 317.933†	74002.4	10.57	mg/L	0.097	10.57	mg/L	0.097	0.92%
Cd 228.802†	9408.4	0.5318	mg/L	0.00145	0.5318	mg/L	0.00145	0.27%
Co 228.616†	12938.2	0.5115	mg/L	0.00131	0.5115	mg/L	0.00131	0.26%
Cr 267.716†	3019.8	0.5218	mg/L	0.00140	0.5218	mg/L	0.00140	0.27%
Cu 324.752†	71816.2	0.4995	mg/L	0.00153	0.4995	mg/L	0.00153	0.31%
Fe 273.955†	1685.7	2.166	mg/L	0.0091	2.166	mg/L	0.0091	0.42%
K 766.490†	13097.4	10.90	mg/L	0.034	10.90	mg/L	0.034	0.31%
Mg 279.077†	8816.0	11.03	mg/L	0.059	11.03	mg/L	0.059	0.54%
Mn 257.610†	14369.2	0.4839	mg/L	0.00289	0.4839	mg/L	0.00289	0.60%
Mo 202.031†	19.4	0.00109	mg/L	0.000079	0.00109	mg/L	0.000079	7.19%
Na 589.592†	78097.0	10.44	mg/L	0.018	10.44	mg/L	0.018	0.18%
Na 330.237†	197.2	11.50	mg/L	0.254	11.50	mg/L	0.254	2.21%
Ni 231.604†	1866.1	0.5209	mg/L	0.00446	0.5209	mg/L	0.00446	0.86%
Pb 220.353†	13720.9	2.073	mg/L	0.0023	2.073	mg/L	0.0023	0.11%
Sb 206.836†	15.1	-0.00005	mg/L	0.003041	-0.00005	mg/L	0.003041	>999.9%
Se 196.026†	2094.3	2.267	mg/L	0.0151	2.267	mg/L	0.0151	0.67%
Si 288.158†	-5.8	-0.00181	mg/L	0.003866	-0.00181	mg/L	0.003866	213.52%
Sn 189.927†	-28.0	-0.00719	mg/L	0.000295	-0.00719	mg/L	0.000295	4.10%
Sr 421.552†	252901.4	0.5096	mg/L	0.00174	0.5096	mg/L	0.00174	0.34%
Ti 334.903†	28.3	0.00108	mg/L	0.000556	0.00108	mg/L	0.000556	51.24%
Tl 190.801†	3098.6	2.114	mg/L	0.0157	2.114	mg/L	0.0157	0.74%
V 292.402†	52835.4	0.5228	mg/L	0.00139	0.5228	mg/L	0.00139	0.27%
Zn 206.200†	1663.2	0.5228	mg/L	0.00304	0.5228	mg/L	0.00304	0.58%

Sequence No.: 14
Sample ID: BEJ0840-DUP2

Autosampler Location: 310
Date Collected: 10/28/2016 12:00:29 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0840-DUP2

Analyte	Back Pressure	Flow
All	138.0 kPa	0.65 L/min

Mean Data: BEJ0840-DUP2

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1801679.6	102.9	%	0.98				0.95%
ScR 361.383	195957.0	101.8	%	0.42				0.41%
Ag 328.068†	273.6	0.00212	mg/L	0.000332	0.00212	mg/L	0.000332	15.67%
Al 308.215†	116.7	0.1248	mg/L	0.00516	0.1248	mg/L	0.00516	4.13%
As 188.979†	5.0	0.00403	mg/L	0.002923	0.00403	mg/L	0.002923	72.56%
B 249.677†	207.1	0.04006	mg/L	0.001508	0.04006	mg/L	0.001508	3.76%
Ba 233.527†	9.2	0.00154	mg/L	0.000444	0.00154	mg/L	0.000444	28.87%
Be 313.042†	37.3	0.00011	mg/L	0.000039	0.00011	mg/L	0.000039	37.04%
Ca 317.933†	2316.4	0.3309	mg/L	0.00299	0.3309	mg/L	0.00299	0.90%
Cd 228.802†	0.2	-0.00002	mg/L	0.000273	-0.00002	mg/L	0.000273	>999.9%
Co 228.616†	4.4	0.00018	mg/L	0.000024	0.00018	mg/L	0.000024	13.63%
Cr 267.716†	6.6	0.00114	mg/L	0.001348	0.00114	mg/L	0.001348	118.16%
Cu 324.752†	134.4	0.00087	mg/L	0.000084	0.00087	mg/L	0.000084	9.64%
Fe 273.955†	4.2	0.00507	mg/L	0.003112	0.00507	mg/L	0.003112	61.32%
K 766.490†	1441.2	1.199	mg/L	0.0072	1.199	mg/L	0.0072	0.60%
Mg 279.077†	13.5	0.01694	mg/L	0.004326	0.01694	mg/L	0.004326	25.54%
Mn 257.610†	6.9	0.00023	mg/L	0.000118	0.00023	mg/L	0.000118	50.91%
Mo 202.031†	32.9	0.00211	mg/L	0.000149	0.00211	mg/L	0.000149	7.07%
Na 589.592†	914228.5	122.2	mg/L	0.39	122.2	mg/L	0.39	0.32%
Na 330.237†	2140.7	126.9	mg/L	0.49	126.9	mg/L	0.49	0.39%
Ni 231.604†	-1.3	-0.00035	mg/L	0.000135	-0.00035	mg/L	0.000135	38.13%
Pb 220.353†	3.9	0.00062	mg/L	0.000456	0.00062	mg/L	0.000456	73.66%
Sb 206.836†	-5.7	-0.00225	mg/L	0.002507	-0.00225	mg/L	0.002507	111.37%
Se 196.026†	5.9	0.00639	mg/L	0.005518	0.00639	mg/L	0.005518	86.37%
Si 288.158†	29223.6	24.89	mg/L	0.078	24.89	mg/L	0.078	0.31%
Sn 189.927†	-3.7	-0.00121	mg/L	0.001067	-0.00121	mg/L	0.001067	88.12%
Sr 421.552†	769.0	0.00155	mg/L	0.000072	0.00155	mg/L	0.000072	4.65%
Ti 334.903†	-2.0	-0.00017	mg/L	0.001425	-0.00017	mg/L	0.001425	851.21%
Tl 190.801†	0.2	0.00004	mg/L	0.000585	0.00004	mg/L	0.000585	>999.9%
V 292.402†	3057.2	0.03012	mg/L	0.000176	0.03012	mg/L	0.000176	0.59%
Zn 206.200†	-15.9	-0.00011	mg/L	0.000148	-0.00011	mg/L	0.000148	133.78%

Sequence No.: 15
Sample ID: 16J0438-02

Autosampler Location: 311
Date Collected: 10/28/2016 12:04:43 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0438-02

Analyte	Back Pressure	Flow
All	140.0 kPa	0.65 L/min

Mean Data: 16J0438-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1823983.9	104.2	%	1.17				1.12%
ScR 361.383	196868.7	102.3	%	0.68				0.67%
Ag 328.068†	249.2	0.00193	mg/L	0.000274	0.00193	mg/L	0.000274	14.18%
Al 308.215†	124.1	0.1327	mg/L	0.00395	0.1327	mg/L	0.00395	2.97%
As 188.979†	4.3	0.00351	mg/L	0.003187	0.00351	mg/L	0.003187	90.89%
B 249.677†	204.5	0.03957	mg/L	0.000970	0.03957	mg/L	0.000970	2.45%
Ba 233.527†	5.0	0.00084	mg/L	0.000599	0.00084	mg/L	0.000599	71.05%
Be 313.042†	42.4	0.00012	mg/L	0.000045	0.00012	mg/L	0.000045	36.65%
Ca 317.933†	2303.9	0.3291	mg/L	0.00347	0.3291	mg/L	0.00347	1.05%
Cd 228.802†	-0.6	-0.00006	mg/L	0.000233	-0.00006	mg/L	0.000233	393.75%
Co 228.616†	-0.4	-0.00002	mg/L	0.000127	-0.00002	mg/L	0.000127	777.46%
Cr 267.716†	-1.0	-0.00018	mg/L	0.001387	-0.00018	mg/L	0.001387	783.79%
Cu 324.752†	115.8	0.00074	mg/L	0.000059	0.00074	mg/L	0.000059	7.89%
Fe 273.955†	6.1	0.00751	mg/L	0.002546	0.00751	mg/L	0.002546	33.89%
K 766.490†	1408.7	1.172	mg/L	0.0236	1.172	mg/L	0.0236	2.02%
Mg 279.077†	19.0	0.02374	mg/L	0.002224	0.02374	mg/L	0.002224	9.37%
Mn 257.610†	6.3	0.00021	mg/L	0.000051	0.00021	mg/L	0.000051	23.77%
Mo 202.031†	31.3	0.00201	mg/L	0.000084	0.00201	mg/L	0.000084	4.16%
Na 589.592†	917432.9	122.6	mg/L	1.16	122.6	mg/L	1.16	0.95%
Na 330.237†	2144.7	127.2	mg/L	2.02	127.2	mg/L	2.02	1.59%
Ni 231.604†	-2.0	-0.00055	mg/L	0.001652	-0.00055	mg/L	0.001652	299.97%
Pb 220.353†	5.4	0.00085	mg/L	0.001176	0.00085	mg/L	0.001176	138.28%
Sb 206.836†	-9.5	-0.00381	mg/L	0.001139	-0.00381	mg/L	0.001139	29.86%
Se 196.026†	4.6	0.00499	mg/L	0.001022	0.00499	mg/L	0.001022	20.47%
Si 288.158†	29164.3	24.84	mg/L	0.162	24.84	mg/L	0.162	0.65%
Sn 189.927†	-0.8	-0.00019	mg/L	0.000534	-0.00019	mg/L	0.000534	279.71%
Sr 421.552†	786.0	0.00158	mg/L	0.000005	0.00158	mg/L	0.000005	0.29%
Ti 334.903†	16.1	0.00109	mg/L	0.001270	0.00109	mg/L	0.001270	116.24%
Tl 190.801†	-2.8	-0.00205	mg/L	0.003104	-0.00205	mg/L	0.003104	151.56%
V 292.402†	3045.0	0.02999	mg/L	0.000470	0.02999	mg/L	0.000470	1.57%
Zn 206.200†	-12.7	0.00089	mg/L	0.000291	0.00089	mg/L	0.000291	32.57%

Sequence No.: 16
Sample ID: BEJ0840-MS2

Autosampler Location: 312
Date Collected: 10/28/2016 12:08:57 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0840-MS2

Analyte	Back Pressure	Flow
All	142.0 kPa	0.65 L/min

Mean Data: BEJ0840-MS2

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1845982.6	105.5	%	0.40				0.38%
ScR 361.383	197628.9	102.7	%	0.58				0.57%
Ag 328.068†	264.4	0.00205	mg/L	0.000424	0.00205	mg/L	0.000424	20.68%
Al 308.215†	122.1	0.1306	mg/L	0.00177	0.1306	mg/L	0.00177	1.36%
As 188.979†	4.8	0.00394	mg/L	0.001501	0.00394	mg/L	0.001501	38.06%
B 249.677†	214.3	0.04146	mg/L	0.001645	0.04146	mg/L	0.001645	3.97%
Ba 233.527†	4.3	0.00071	mg/L	0.000321	0.00071	mg/L	0.000321	45.20%
Be 313.042†	24.0	0.00007	mg/L	0.000089	0.00007	mg/L	0.000089	135.98%
Ca 317.933†	2354.4	0.3363	mg/L	0.00103	0.3363	mg/L	0.00103	0.31%
Cd 228.802†	2.3	0.00010	mg/L	0.000184	0.00010	mg/L	0.000184	177.32%
Co 228.616†	5.3	0.00021	mg/L	0.000181	0.00021	mg/L	0.000181	87.36%
Cr 267.716†	5.1	0.00087	mg/L	0.001598	0.00087	mg/L	0.001598	184.30%
Cu 324.752†	98.9	0.00062	mg/L	0.000156	0.00062	mg/L	0.000156	24.98%
Fe 273.955†	2.9	0.00336	mg/L	0.002187	0.00336	mg/L	0.002187	65.01%
K 766.490†	1437.1	1.196	mg/L	0.0086	1.196	mg/L	0.0086	0.72%
Mg 279.077†	18.3	0.02296	mg/L	0.015443	0.02296	mg/L	0.015443	67.27%
Mn 257.610†	6.1	0.00020	mg/L	0.000252	0.00020	mg/L	0.000252	123.77%
Mo 202.031†	29.1	0.00187	mg/L	0.000384	0.00187	mg/L	0.000384	20.52%
Na 589.592†	909730.8	121.6	mg/L	0.34	121.6	mg/L	0.34	0.28%
Na 330.237†	2142.8	127.1	mg/L	0.27	127.1	mg/L	0.27	0.21%
Ni 231.604†	-4.2	-0.00116	mg/L	0.001500	-0.00116	mg/L	0.001500	128.97%
Pb 220.353†	-7.1	-0.00105	mg/L	0.001690	-0.00105	mg/L	0.001690	161.68%
Sb 206.836†	-4.5	-0.00176	mg/L	0.001083	-0.00176	mg/L	0.001083	61.44%
Se 196.026†	9.1	0.00986	mg/L	0.007408	0.00986	mg/L	0.007408	75.17%
Si 288.158†	41844.8	35.64	mg/L	0.103	35.64	mg/L	0.103	0.29%
Sn 189.927†	-4.2	-0.00138	mg/L	0.000906	-0.00138	mg/L	0.000906	65.78%
Sr 421.552†	780.0	0.00157	mg/L	0.000042	0.00157	mg/L	0.000042	2.64%
Ti 334.903†	12.7	0.00086	mg/L	0.001294	0.00086	mg/L	0.001294	150.91%
Tl 190.801†	3.0	0.00195	mg/L	0.000968	0.00195	mg/L	0.000968	49.70%
V 292.402†	3022.5	0.02978	mg/L	0.000237	0.02978	mg/L	0.000237	0.79%
Zn 206.200†	-23.5	-0.00037	mg/L	0.000206	-0.00037	mg/L	0.000206	55.23%

Sequence No.: 17
Sample ID: BEJ0840-BS2

Autosampler Location: 313
Date Collected: 10/28/2016 12:14:14 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0840-BS2

Analyte	Back Pressure	Flow
All	142.0 kPa	0.65 L/min

Mean Data: BEJ0840-BS2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1857941.4	106.1	%	0.65				0.61%
ScR 361.383	205284.9	106.6	%	0.61				0.57%
Ag 328.068†	2306.1	0.01780	mg/L	0.005141	0.01780	mg/L	0.005141	28.89%
Al 308.215†	16.1	0.01726	mg/L	0.007266	0.01726	mg/L	0.007266	42.09%
As 188.979†	2.4	0.00190	mg/L	0.001825	0.00190	mg/L	0.001825	96.22%
B 249.677†	5.4	0.00105	mg/L	0.000281	0.00105	mg/L	0.000281	26.66%
Ba 233.527†	0.4	0.00006	mg/L	0.000816	0.00006	mg/L	0.000816	>999.9%
Be 313.042†	1.8	0.00001	mg/L	0.000037	0.00001	mg/L	0.000037	689.42%
Ca 317.933†	170.1	0.02429	mg/L	0.000555	0.02429	mg/L	0.000555	2.28%
Cd 228.802†	6.1	0.00034	mg/L	0.000080	0.00034	mg/L	0.000080	23.71%
Co 228.616†	9.1	0.00036	mg/L	0.000078	0.00036	mg/L	0.000078	21.54%
Cr 267.716†	4.3	0.00075	mg/L	0.000361	0.00075	mg/L	0.000361	48.02%
Cu 324.752†	36.6	0.00026	mg/L	0.000040	0.00026	mg/L	0.000040	15.73%
Fe 273.955†	5.8	0.00742	mg/L	0.003377	0.00742	mg/L	0.003377	45.54%
K 766.490†	39.1	0.03255	mg/L	0.016466	0.03255	mg/L	0.016466	50.59%
Mg 279.077†	-0.8	-0.00100	mg/L	0.005188	-0.00100	mg/L	0.005188	519.48%
Mn 257.610†	8.2	0.00027	mg/L	0.000211	0.00027	mg/L	0.000211	76.78%
Mo 202.031†	-4.8	-0.00031	mg/L	0.000116	-0.00031	mg/L	0.000116	37.81%
Na 589.592†	249.4	0.03333	mg/L	0.003296	0.03333	mg/L	0.003296	9.89%
Na 330.237†	7.8	0.4624	mg/L	0.13701	0.4624	mg/L	0.13701	29.63%
Ni 231.604†	-2.8	-0.00080	mg/L	0.000697	-0.00080	mg/L	0.000697	87.41%
Pb 220.353†	3.2	0.00049	mg/L	0.001511	0.00049	mg/L	0.001511	310.40%
Sb 206.836†	-4.0	-0.00169	mg/L	0.000719	-0.00169	mg/L	0.000719	42.60%
Se 196.026†	2.7	0.00292	mg/L	0.000973	0.00292	mg/L	0.000973	33.35%
Si 288.158†	11077.9	9.437	mg/L	0.0329	9.437	mg/L	0.0329	0.35%
Sn 189.927†	-5.1	-0.00175	mg/L	0.000498	-0.00175	mg/L	0.000498	28.46%
Sr 421.552†	28.8	0.00006	mg/L	0.000033	0.00006	mg/L	0.000033	57.52%
Ti 334.903†	-24.8	-0.00173	mg/L	0.000898	-0.00173	mg/L	0.000898	51.98%
Tl 190.801†	2.4	0.00161	mg/L	0.001438	0.00161	mg/L	0.001438	89.13%
V 292.402†	0.1	0.00000	mg/L	0.000114	0.00000	mg/L	0.000114	>999.9%
Zn 206.200†	-4.7	0.00039	mg/L	0.000164	0.00039	mg/L	0.000164	42.15%

Sequence No.: 18
Sample ID: SEQ-CCV2

Autosampler Location: 7
Date Collected: 10/28/2016 12:20:55 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCV2

Analyte	Back Pressure	Flow
All	141.0 kPa	0.65 L/min

Mean Data: SEQ-CCV2

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1816788.7	103.8	%	0.40				0.39%
ScR 361.383	198505.1	103.1	%	1.33				1.29%
Ag 328.068†	134653.0	1.039	mg/L	0.0071	1.039	mg/L	0.0071	0.69%
Al 308.215†	2005.7	2.119	mg/L	0.0253	2.119	mg/L	0.0253	1.19%
As 188.979†	2483.8	2.052	mg/L	0.0097	2.052	mg/L	0.0097	0.47%
B 249.677†	5293.3	1.022	mg/L	0.0123	1.022	mg/L	0.0123	1.20%
Ba 233.527†	6153.3	1.037	mg/L	0.0118	1.037	mg/L	0.0118	1.14%
Be 313.042†	337605.1	1.024	mg/L	0.0033	1.024	mg/L	0.0033	0.32%
Ca 317.933†	15379.4	2.197	mg/L	0.0268	2.197	mg/L	0.0268	1.22%
Cd 228.802†	17621.7	1.008	mg/L	0.0043	1.008	mg/L	0.0043	0.42%
Co 228.616†	25366.4	1.001	mg/L	0.0052	1.001	mg/L	0.0052	0.52%
Cr 267.716†	6017.0	1.042	mg/L	0.0111	1.042	mg/L	0.0111	1.06%
Cu 324.752†	142041.5	0.9873	mg/L	0.00582	0.9873	mg/L	0.00582	0.59%
Fe 273.955†	1661.1	2.131	mg/L	0.0213	2.131	mg/L	0.0213	1.00%
K 766.490†	25647.8	21.34	mg/L	0.029	21.34	mg/L	0.029	0.13%
Mg 279.077†	1724.8	2.166	mg/L	0.0320	2.166	mg/L	0.0320	1.48%
Mn 257.610†	28803.1	0.9695	mg/L	0.00454	0.9695	mg/L	0.00454	0.47%
Mo 202.031†	15075.2	0.9706	mg/L	0.00350	0.9706	mg/L	0.00350	0.36%
Na 589.592†	379751.0	50.75	mg/L	0.136	50.75	mg/L	0.136	0.27%
Na 330.237†	925.0	54.70	mg/L	0.414	54.70	mg/L	0.414	0.76%
Ni 231.604†	3741.4	1.047	mg/L	0.0085	1.047	mg/L	0.0085	0.81%
Pb 220.353†	13227.7	1.999	mg/L	0.0029	1.999	mg/L	0.0029	0.14%
Sb 206.836†	5109.8	2.117	mg/L	0.0050	2.117	mg/L	0.0050	0.24%
Se 196.026†	1913.4	2.070	mg/L	0.0112	2.070	mg/L	0.0112	0.54%
Si 288.158†	2503.3	2.130	mg/L	0.0257	2.130	mg/L	0.0257	1.21%
Sn 189.927†	2917.6	1.009	mg/L	0.0034	1.009	mg/L	0.0034	0.34%
Sr 421.552†	506437.3	1.021	mg/L	0.0043	1.021	mg/L	0.0043	0.42%
Ti 334.903†	14559.0	1.012	mg/L	0.0045	1.012	mg/L	0.0045	0.44%
Tl 190.801†	2984.4	2.033	mg/L	0.0085	2.033	mg/L	0.0085	0.42%
V 292.402†	102145.8	1.011	mg/L	0.0065	1.011	mg/L	0.0065	0.65%
Zn 206.200†	3365.8	1.058	mg/L	0.0137	1.058	mg/L	0.0137	1.29%

Sequence No.: 19
Sample ID: SEQ-CCB2

Autosampler Location: 1
Date Collected: 10/28/2016 12:25:59 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCB2

Analyte	Back Pressure	Flow
All	141.0 kPa	0.65 L/min

Mean Data: SEQ-CCB2

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1812118.6	103.5	%	0.54				0.52%
ScR 361.383	201487.4	104.7	%	0.56				0.54%
Ag 328.068†	32.2	0.00025	mg/L	0.000111	0.00025	mg/L	0.000111	44.63%
Al 308.215†	0.6	0.00068	mg/L	0.002544	0.00068	mg/L	0.002544	372.77%
As 188.979†	3.1	0.00251	mg/L	0.002249	0.00251	mg/L	0.002249	89.67%
B 249.677†	7.7	0.00150	mg/L	0.000822	0.00150	mg/L	0.000822	54.92%
Ba 233.527†	3.2	0.00053	mg/L	0.000537	0.00053	mg/L	0.000537	100.97%
Be 313.042†	21.1	0.00006	mg/L	0.000014	0.00006	mg/L	0.000014	22.28%
Ca 317.933†	11.2	0.00160	mg/L	0.001191	0.00160	mg/L	0.001191	74.61%
Cd 228.802†	2.7	0.00014	mg/L	0.000419	0.00014	mg/L	0.000419	301.06%
Co 228.616†	2.6	0.00010	mg/L	0.000223	0.00010	mg/L	0.000223	217.51%
Cr 267.716†	-1.5	-0.00026	mg/L	0.000233	-0.00026	mg/L	0.000233	88.76%
Cu 324.752†	13.6	0.00009	mg/L	0.000114	0.00009	mg/L	0.000114	121.09%
Fe 273.955†	0.9	0.00118	mg/L	0.001266	0.00118	mg/L	0.001266	107.08%
K 766.490†	53.7	0.04470	mg/L	0.021992	0.04470	mg/L	0.021992	49.20%
Mg 279.077†	0.9	0.00109	mg/L	0.008054	0.00109	mg/L	0.008054	737.49%
Mn 257.610†	0.0	0.00000	mg/L	0.000112	0.00000	mg/L	0.000112	>999.9%
Mo 202.031†	7.3	0.00047	mg/L	0.000523	0.00047	mg/L	0.000523	111.04%
Na 589.592†	-69.4	-0.00928	mg/L	0.002771	-0.00928	mg/L	0.002771	29.87%
Na 330.237†	7.0	0.4170	mg/L	0.14344	0.4170	mg/L	0.14344	34.40%
Ni 231.604†	1.2	0.00034	mg/L	0.000587	0.00034	mg/L	0.000587	172.57%
Pb 220.353†	6.0	0.00090	mg/L	0.000686	0.00090	mg/L	0.000686	76.22%
Sb 206.836†	2.5	0.00104	mg/L	0.001537	0.00104	mg/L	0.001537	147.18%
Se 196.026†	1.9	0.00210	mg/L	0.002756	0.00210	mg/L	0.002756	131.42%
Si 288.158†	-0.7	-0.00059	mg/L	0.004446	-0.00059	mg/L	0.004446	758.47%
Sn 189.927†	-1.5	-0.00050	mg/L	0.000849	-0.00050	mg/L	0.000849	168.76%
Sr 421.552†	-8.5	-0.00002	mg/L	0.000091	-0.00002	mg/L	0.000091	534.42%
Ti 334.903†	-0.2	-0.00001	mg/L	0.000836	-0.00001	mg/L	0.000836	>999.9%
Tl 190.801†	-1.7	-0.00115	mg/L	0.003767	-0.00115	mg/L	0.003767	328.29%
V 292.402†	-17.8	-0.00018	mg/L	0.000156	-0.00018	mg/L	0.000156	88.91%
Zn 206.200†	1.3	0.00040	mg/L	0.000627	0.00040	mg/L	0.000627	155.12%

Analysis Begun

Start Time: 10/28/2016 12:33:40 PM
Logged In Analyst: metinst
Spectrometer: Optima 7300 DV, S/N 077C8121202
Plasma On Time: 10/28/2016 9:23:58 AM
Technique: ICP Continuous
Autosampler: ESI

Sample Information File: C:\pe\metals\Sample Information\1028.sif
Batch ID:
Results Data Set: I2161028
Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

Sequence No.: 1
Sample ID: SEQ-CCV3
Autosampler Location: 7
Date Collected: 10/28/2016 12:33:41 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCV3

Analyte	Back Pressure	Flow
All	141.0 kPa	0.65 L/min

Mean Data: SEQ-CCV3

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1810785.4	103.4	%	1.01				0.98%
ScR 361.383	198439.8	103.1	%	0.81				0.79%
Ag 328.068†	134658.5	1.039	mg/L	0.0113	1.039	mg/L	0.0113	1.09%
Al 308.215†	2003.8	2.117	mg/L	0.0165	2.117	mg/L	0.0165	0.78%
As 188.979†	2496.7	2.063	mg/L	0.0187	2.063	mg/L	0.0187	0.91%
B 249.677†	5294.7	1.022	mg/L	0.0028	1.022	mg/L	0.0028	0.27%
Ba 233.527†	6143.4	1.035	mg/L	0.0036	1.035	mg/L	0.0036	0.34%
Be 313.042†	337356.0	1.023	mg/L	0.0008	1.023	mg/L	0.0008	0.08%
Ca 317.933†	15470.0	2.161	mg/L	0.0083	2.161	mg/L	0.0083	0.38%
Cd 228.802†	17787.9	1.018	mg/L	0.0129	1.018	mg/L	0.0129	1.27%
Co 228.616†	25433.9	1.004	mg/L	0.0104	1.004	mg/L	0.0104	1.03%
Cr 267.716†	6021.9	1.043	mg/L	0.0032	1.043	mg/L	0.0032	0.31%
Cu 324.752†	143143.1	0.9950	mg/L	0.01050	0.9950	mg/L	0.01050	1.05%
Fe 273.955†	1678.0	2.131	mg/L	0.0099	2.131	mg/L	0.0099	0.47%
K 766.490†	25817.6	21.22	mg/L	0.039	21.22	mg/L	0.039	0.18%
Mg 279.077†	1730.3	2.132	mg/L	0.0168	2.132	mg/L	0.0168	0.79%
Mn 257.610†	28742.4	0.9675	mg/L	0.00044	0.9675	mg/L	0.00044	0.05%
Mo 202.031†	15223.6	0.9801	mg/L	0.01230	0.9801	mg/L	0.01230	1.25%
Na 589.592†	380435.2	50.84	mg/L	0.104	50.84	mg/L	0.104	0.20%
Na 330.237†	923.9	54.74	mg/L	0.313	54.74	mg/L	0.313	0.57%
Ni 231.604†	3738.4	1.046	mg/L	0.0034	1.046	mg/L	0.0034	0.32%
Pb 220.353†	13310.3	2.012	mg/L	0.0236	2.012	mg/L	0.0236	1.17%
Sb 206.836†	5123.7	2.122	mg/L	0.0182	2.122	mg/L	0.0182	0.86%
Se 196.026†	1925.5	2.083	mg/L	0.0110	2.083	mg/L	0.0110	0.53%
Si 288.158†	2498.0	2.125	mg/L	0.0148	2.125	mg/L	0.0148	0.70%
Sn 189.927†	2936.0	1.016	mg/L	0.0089	1.016	mg/L	0.0089	0.88%
Sr 421.552†	506172.8	1.020	mg/L	0.0011	1.020	mg/L	0.0011	0.11%
Ti 334.903†	14507.2	1.008	mg/L	0.0004	1.008	mg/L	0.0004	0.04%
Tl 190.801†	2978.7	2.029	mg/L	0.0165	2.029	mg/L	0.0165	0.81%
V 292.402†	103017.4	1.019	mg/L	0.0115	1.019	mg/L	0.0115	1.13%
Zn 206.200†	3354.5	1.055	mg/L	0.0042	1.055	mg/L	0.0042	0.40%

Sequence No.: 2
Sample ID: SEQ-CCB3

Autosampler Location: 1
Date Collected: 10/28/2016 12:37:42 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCB3

Analyte	Back Pressure	Flow
All	142.0 kPa	0.65 L/min

Mean Data: SEQ-CCB3

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1819328.4	103.9	%	0.48				0.46%
ScR 361.383	200357.4	104.1	%	0.36				0.35%
Ag 328.068†	16.7	0.00013	mg/L	0.000112	0.00013	mg/L	0.000112	86.86%
Al 308.215†	-0.8	-0.00091	mg/L	0.009208	-0.00091	mg/L	0.009208	>999.9%
As 188.979†	2.3	0.00186	mg/L	0.002298	0.00186	mg/L	0.002298	123.47%
B 249.677†	12.6	0.00244	mg/L	0.001302	0.00244	mg/L	0.001302	53.33%
Ba 233.527†	4.3	0.00072	mg/L	0.001095	0.00072	mg/L	0.001095	151.34%
Be 313.042†	6.6	0.00002	mg/L	0.000049	0.00002	mg/L	0.000049	246.34%
Ca 317.933†	14.9	0.00208	mg/L	0.001302	0.00208	mg/L	0.001302	62.49%
Cd 228.802†	-2.7	-0.00017	mg/L	0.000150	-0.00017	mg/L	0.000150	87.99%
Co 228.616†	7.5	0.00030	mg/L	0.000203	0.00030	mg/L	0.000203	68.44%
Cr 267.716†	2.4	0.00041	mg/L	0.000808	0.00041	mg/L	0.000808	196.97%
Cu 324.752†	13.6	0.00009	mg/L	0.000221	0.00009	mg/L	0.000221	235.29%
Fe 273.955†	1.9	0.00238	mg/L	0.003930	0.00238	mg/L	0.003930	165.08%
K 766.490†	61.1	0.05019	mg/L	0.046701	0.05019	mg/L	0.046701	93.05%
Mg 279.077†	-2.2	-0.00276	mg/L	0.008392	-0.00276	mg/L	0.008392	304.54%
Mn 257.610†	-3.4	-0.00011	mg/L	0.000276	-0.00011	mg/L	0.000276	244.04%
Mo 202.031†	7.7	0.00050	mg/L	0.000558	0.00050	mg/L	0.000558	112.53%
Na 589.592†	-40.3	-0.00538	mg/L	0.007079	-0.00538	mg/L	0.007079	131.49%
Na 330.237†	5.4	0.3221	mg/L	0.39855	0.3221	mg/L	0.39855	123.72%
Ni 231.604†	-2.2	-0.00061	mg/L	0.001338	-0.00061	mg/L	0.001338	219.92%
Pb 220.353†	6.3	0.00096	mg/L	0.000902	0.00096	mg/L	0.000902	94.02%
Sb 206.836†	-0.3	-0.00012	mg/L	0.001910	-0.00012	mg/L	0.001910	>999.9%
Se 196.026†	-1.0	-0.00113	mg/L	0.000838	-0.00113	mg/L	0.000838	74.37%
Si 288.158†	-1.3	-0.00115	mg/L	0.004372	-0.00115	mg/L	0.004372	381.07%
Sn 189.927†	0.2	0.00009	mg/L	0.000459	0.00009	mg/L	0.000459	535.17%
Sr 421.552†	-4.8	-0.00001	mg/L	0.000015	-0.00001	mg/L	0.000015	155.87%
Ti 334.903†	1.9	0.00013	mg/L	0.000619	0.00013	mg/L	0.000619	459.09%
Tl 190.801†	0.5	0.00036	mg/L	0.002995	0.00036	mg/L	0.002995	837.28%
V 292.402†	2.9	0.00003	mg/L	0.000132	0.00003	mg/L	0.000132	439.50%
Zn 206.200†	0.8	0.00024	mg/L	0.000318	0.00024	mg/L	0.000318	131.10%

Sequence No.: 3
Sample ID: BEJ0759-BLK1

Autosampler Location: 314
Date Collected: 10/28/2016 12:41:42 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0759-BLK1

Analyte	Back Pressure	Flow
All	141.0 kPa	0.65 L/min

Mean Data: BEJ0759-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1861514.5	106.3	%	0.75				0.70%
ScR 361.383	204839.5	106.4	%	0.73				0.69%
Ag 328.068†	11.0	0.00008	mg/L	0.000426	0.00008	mg/L	0.000426	501.07%
Al 308.215†	0.3	0.00037	mg/L	0.006329	0.00037	mg/L	0.006329	>999.9%
As 188.979†	3.3	0.00270	mg/L	0.002376	0.00270	mg/L	0.002376	87.86%
B 249.677†	-5.8	-0.00111	mg/L	0.000737	-0.00111	mg/L	0.000737	66.16%
Ba 233.527†	6.5	0.00110	mg/L	0.000308	0.00110	mg/L	0.000308	28.03%
Be 313.042†	-28.6	-0.00009	mg/L	0.000030	-0.00009	mg/L	0.000030	35.01%
Ca 317.933†	21.9	0.00306	mg/L	0.001188	0.00306	mg/L	0.001188	38.83%
Cd 228.802†	0.3	-0.00000	mg/L	0.000150	-0.00000	mg/L	0.000150	>999.9%
Co 228.616†	8.5	0.00034	mg/L	0.000130	0.00034	mg/L	0.000130	38.48%
Cr 267.716†	-1.1	-0.00019	mg/L	0.000608	-0.00019	mg/L	0.000608	326.76%
Cu 324.752†	-19.3	-0.00013	mg/L	0.000048	-0.00013	mg/L	0.000048	35.73%
Fe 273.955†	4.7	0.00598	mg/L	0.000881	0.00598	mg/L	0.000881	14.72%
K 766.490†	52.5	0.04315	mg/L	0.008808	0.04315	mg/L	0.008808	20.41%
Mg 279.077†	5.6	0.00684	mg/L	0.002592	0.00684	mg/L	0.002592	37.90%
Mn 257.610†	2.1	0.00007	mg/L	0.000108	0.00007	mg/L	0.000108	151.50%
Mo 202.031†	-4.9	-0.00032	mg/L	0.000207	-0.00032	mg/L	0.000207	65.48%
Na 589.592†	-23.5	-0.00315	mg/L	0.005010	-0.00315	mg/L	0.005010	159.23%
Na 330.237†	7.5	0.4438	mg/L	0.65907	0.4438	mg/L	0.65907	148.52%
Ni 231.604†	-1.2	-0.00034	mg/L	0.000557	-0.00034	mg/L	0.000557	162.94%
Pb 220.353†	2.5	0.00037	mg/L	0.000472	0.00037	mg/L	0.000472	126.19%
Sb 206.836†	-4.7	-0.00195	mg/L	0.002774	-0.00195	mg/L	0.002774	141.99%
Se 196.026†	3.0	0.00324	mg/L	0.005322	0.00324	mg/L	0.005322	164.47%
Si 288.158†	-9.8	-0.00836	mg/L	0.003703	-0.00836	mg/L	0.003703	44.29%
Sn 189.927†	1.6	0.00057	mg/L	0.001069	0.00057	mg/L	0.001069	188.67%
Sr 421.552†	-40.7	-0.00008	mg/L	0.000049	-0.00008	mg/L	0.000049	59.19%
Ti 334.903†	-9.2	-0.00064	mg/L	0.001397	-0.00064	mg/L	0.001397	218.95%
Tl 190.801†	-1.5	-0.00100	mg/L	0.000971	-0.00100	mg/L	0.000971	97.31%
V 292.402†	-5.7	-0.00006	mg/L	0.000254	-0.00006	mg/L	0.000254	443.47%
Zn 206.200†	0.3	0.00011	mg/L	0.000165	0.00011	mg/L	0.000165	153.28%

Sequence No.: 4
Sample ID: 16J0378-07

Autosampler Location: 315
Date Collected: 10/28/2016 12:45:42 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0378-07

Analyte	Back Pressure	Flow
All	142.0 kPa	0.65 L/min

Mean Data: 16J0378-07

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1817937.4	103.9	%	0.27				0.26%
ScR 361.383	199689.0	103.7	%	1.10				1.06%
Ag 328.068†	3.1	0.00002	mg/L	0.000025	0.00002	mg/L	0.000025	101.43%
Al 308.215†	15.0	0.01599	mg/L	0.005489	0.01599	mg/L	0.005489	34.33%
As 188.979†	15.2	0.00988	mg/L	0.001745	0.00988	mg/L	0.001745	17.67%
B 249.677†	951.3	0.1840	mg/L	0.00194	0.1840	mg/L	0.00194	1.05%
Ba 233.527†	1049.8	0.1767	mg/L	0.00095	0.1767	mg/L	0.00095	0.54%
Be 313.042†	27.5	0.00008	mg/L	0.000089	0.00008	mg/L	0.000089	107.67%
Ca 317.933†	311824.7	43.56	mg/L	0.319	43.56	mg/L	0.319	0.73%
Cd 228.802†	-3.9	-0.00032	mg/L	0.000165	-0.00032	mg/L	0.000165	51.27%
Co 228.616†	35.3	0.00137	mg/L	0.000163	0.00137	mg/L	0.000163	11.88%
Cr 267.716†	10.0	-0.00003	mg/L	0.001565	-0.00003	mg/L	0.001565	>999.9%
Cu 324.752†	187.9	0.00109	mg/L	0.000117	0.00109	mg/L	0.000117	10.78%
Fe 273.955†	1845.9	2.353	mg/L	0.0254	2.353	mg/L	0.0254	1.08%
K 766.490†	15522.0	12.76	mg/L	0.119	12.76	mg/L	0.119	0.94%
Mg 279.077†	20309.7	24.93	mg/L	0.260	24.93	mg/L	0.260	1.04%
Mn 257.610†	8060.6	0.2710	mg/L	0.00315	0.2710	mg/L	0.00315	1.16%
Mo 202.031†	69.2	0.00382	mg/L	0.000100	0.00382	mg/L	0.000100	2.61%
Na 589.592†	1237274.2	165.3	mg/L	0.83	165.3	mg/L	0.83	0.50%
Na 330.237†	2903.6	172.5	mg/L	0.97	172.5	mg/L	0.97	0.56%
Ni 231.604†	9.8	0.00274	mg/L	0.001179	0.00274	mg/L	0.001179	43.01%
Pb 220.353†	-4.6	-0.00069	mg/L	0.000975	-0.00069	mg/L	0.000975	142.24%
Sb 206.836†	2.6	0.00084	mg/L	0.002005	0.00084	mg/L	0.002005	239.94%
Se 196.026†	10.6	0.01148	mg/L	0.005413	0.01148	mg/L	0.005413	47.16%
Si 288.158†	15558.2	13.26	mg/L	0.140	13.26	mg/L	0.140	1.05%
Sn 189.927†	-73.3	-0.01539	mg/L	0.001020	-0.01539	mg/L	0.001020	6.63%
Sr 421.552†	190226.7	0.3833	mg/L	0.00156	0.3833	mg/L	0.00156	0.41%
Ti 334.903†	60.8	0.00110	mg/L	0.000711	0.00110	mg/L	0.000711	64.80%
Tl 190.801†	9.5	0.00455	mg/L	0.002082	0.00455	mg/L	0.002082	45.77%
V 292.402†	114.2	0.00109	mg/L	0.000147	0.00109	mg/L	0.000147	13.57%
Zn 206.200†	4.6	0.00406	mg/L	0.000163	0.00406	mg/L	0.000163	4.02%

Sequence No.: 5
Sample ID: 16J0378-09

Autosampler Location: 316
Date Collected: 10/28/2016 12:49:56 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0378-09

Analyte	Back Pressure	Flow
All	143.0 kPa	0.65 L/min

Mean Data: 16J0378-09

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1774991.0	101.4	%	0.83				0.82%
ScR 361.383	202405.5	105.1	%	0.54				0.51%
Ag 328.068†	-191.2	-0.00148	mg/L	0.000446	-0.00148	mg/L	0.000446	30.23%
Al 308.215†	6.1	0.00639	mg/L	0.005191	0.00639	mg/L	0.005191	81.19%
As 188.979†	35.6	0.01820	mg/L	0.004101	0.01820	mg/L	0.004101	22.53%
B 249.677†	1443.8	0.2793	mg/L	0.00158	0.2793	mg/L	0.00158	0.57%
Ba 233.527†	493.9	0.08326	mg/L	0.001095	0.08326	mg/L	0.001095	1.31%
Be 313.042†	95.4	0.00029	mg/L	0.000028	0.00029	mg/L	0.000028	9.64%
Ca 317.933†	1360428.1	190.0	mg/L	1.74	190.0	mg/L	1.74	0.92%
Cd 228.802†	8.1	0.00033	mg/L	0.000271	0.00033	mg/L	0.000271	80.91%
Co 228.616†	26.1	0.00099	mg/L	0.000140	0.00099	mg/L	0.000140	14.15%
Cr 267.716†	16.8	-0.00046	mg/L	0.000980	-0.00046	mg/L	0.000980	211.63%
Cu 324.752†	490.4	0.00285	mg/L	0.000131	0.00285	mg/L	0.000131	4.60%
Fe 273.955†	18.1	0.02300	mg/L	0.004000	0.02300	mg/L	0.004000	17.39%
K 766.490†	22368.9	18.38	mg/L	0.042	18.38	mg/L	0.042	0.23%
Mg 279.077†	36117.9	44.34	mg/L	0.071	44.34	mg/L	0.071	0.16%
Mn 257.610†	740.6	0.02455	mg/L	0.000130	0.02455	mg/L	0.000130	0.53%
Mo 202.031†	129.2	0.00552	mg/L	0.000087	0.00552	mg/L	0.000087	1.58%
Na 589.592†	1951496.3	260.8	mg/L	2.55	260.8	mg/L	2.55	0.98%
Na 330.237†	4695.9	278.9	mg/L	0.96	278.9	mg/L	0.96	0.34%
Ni 231.604†	166.2	0.04648	mg/L	0.000349	0.04648	mg/L	0.000349	0.75%
Pb 220.353†	-14.0	-0.00211	mg/L	0.000202	-0.00211	mg/L	0.000202	9.58%
Sb 206.836†	26.2	0.01040	mg/L	0.002089	0.01040	mg/L	0.002089	20.09%
Se 196.026†	26.0	0.02819	mg/L	0.009509	0.02819	mg/L	0.009509	33.73%
Si 288.158†	13413.3	11.43	mg/L	0.041	11.43	mg/L	0.041	0.35%
Sn 189.927†	-140.5	-0.00526	mg/L	0.001293	-0.00526	mg/L	0.001293	24.56%
Sr 421.552†	496082.7	0.9996	mg/L	0.00842	0.9996	mg/L	0.00842	0.84%
Ti 334.903†	222.8	0.00184	mg/L	0.000552	0.00184	mg/L	0.000552	29.98%
Tl 190.801†	22.1	0.00536	mg/L	0.001618	0.00536	mg/L	0.001618	30.20%
V 292.402†	174.8	0.00173	mg/L	0.000179	0.00173	mg/L	0.000179	10.35%
Zn 206.200†	827.4	0.2623	mg/L	0.00148	0.2623	mg/L	0.00148	0.56%

Sequence No.: 6
Sample ID: 16J0378-10

Autosampler Location: 317
Date Collected: 10/28/2016 12:54:12 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0378-10

Analyte	Back Pressure	Flow
All	143.0 kPa	0.65 L/min

Mean Data: 16J0378-10

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1781456.9	101.8	%	0.49				0.48%
ScR 361.383	204253.1	106.1	%	1.39				1.31%
Ag 328.068†	-152.0	-0.00117	mg/L	0.000435	-0.00117	mg/L	0.000435	37.11%
Al 308.215†	5.2	0.00532	mg/L	0.006622	0.00532	mg/L	0.006622	124.59%
As 188.979†	36.3	0.01782	mg/L	0.001949	0.01782	mg/L	0.001949	10.94%
B 249.677†	1199.9	0.2321	mg/L	0.00130	0.2321	mg/L	0.00130	0.56%
Ba 233.527†	775.5	0.1307	mg/L	0.00082	0.1307	mg/L	0.00082	0.63%
Be 313.042†	74.7	0.00023	mg/L	0.000066	0.00023	mg/L	0.000066	29.14%
Ca 317.933†	1468009.7	205.1	mg/L	4.54	205.1	mg/L	4.54	2.22%
Cd 228.802†	-7.9	-0.00063	mg/L	0.000106	-0.00063	mg/L	0.000106	16.90%
Co 228.616†	192.1	0.00755	mg/L	0.000145	0.00755	mg/L	0.000145	1.92%
Cr 267.716†	19.4	-0.00157	mg/L	0.000913	-0.00157	mg/L	0.000913	58.02%
Cu 324.752†	500.2	0.00280	mg/L	0.000056	0.00280	mg/L	0.000056	1.99%
Fe 273.955†	575.3	0.7333	mg/L	0.00690	0.7333	mg/L	0.00690	0.94%
K 766.490†	22525.5	18.51	mg/L	0.052	18.51	mg/L	0.052	0.28%
Mg 279.077†	53303.9	65.44	mg/L	0.268	65.44	mg/L	0.268	0.41%
Mn 257.610†	9894.4	0.3323	mg/L	0.00190	0.3323	mg/L	0.00190	0.57%
Mo 202.031†	187.7	0.00907	mg/L	0.000174	0.00907	mg/L	0.000174	1.92%
Na 589.592†	1988899.4	265.8	mg/L	3.83	265.8	mg/L	3.83	1.44%
Na 330.237†	4647.2	276.1	mg/L	1.89	276.1	mg/L	1.89	0.69%
Ni 231.604†	79.3	0.02219	mg/L	0.000687	0.02219	mg/L	0.000687	3.10%
Pb 220.353†	-8.4	-0.00126	mg/L	0.000088	-0.00126	mg/L	0.000088	6.96%
Sb 206.836†	21.4	0.00842	mg/L	0.001680	0.00842	mg/L	0.001680	19.95%
Se 196.026†	22.0	0.02380	mg/L	0.003052	0.02380	mg/L	0.003052	12.83%
Si 288.158†	15969.4	13.61	mg/L	0.047	13.61	mg/L	0.047	0.35%
Sn 189.927†	-135.4	-0.00010	mg/L	0.001749	-0.00010	mg/L	0.001749	>999.9%
Sr 421.552†	576930.4	1.163	mg/L	0.0182	1.163	mg/L	0.0182	1.56%
Ti 334.903†	235.0	0.00161	mg/L	0.000156	0.00161	mg/L	0.000156	9.73%
Tl 190.801†	23.2	0.00538	mg/L	0.003345	0.00538	mg/L	0.003345	62.21%
V 292.402†	252.0	0.00252	mg/L	0.000143	0.00252	mg/L	0.000143	5.68%
Zn 206.200†	20.1	0.00900	mg/L	0.000771	0.00900	mg/L	0.000771	8.57%

Sequence No.: 7
Sample ID: 16J0378-11

Autosampler Location: 318
Date Collected: 10/28/2016 12:58:28 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0378-11

Analyte	Back Pressure	Flow
All	144.0 kPa	0.65 L/min

Mean Data: 16J0378-11

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1815243.9	103.7	%	0.15				0.14%
ScR 361.383	198564.2	103.2	%	0.75				0.72%
Ag 328.068†	-198.5	-0.00153	mg/L	0.000089	-0.00153	mg/L	0.000089	5.80%
Al 308.215†	-0.8	-0.00127	mg/L	0.006498	-0.00127	mg/L	0.006498	510.94%
As 188.979†	76.7	0.04822	mg/L	0.000748	0.04822	mg/L	0.000748	1.55%
B 249.677†	2831.3	0.5476	mg/L	0.00472	0.5476	mg/L	0.00472	0.86%
Ba 233.527†	1080.7	0.1822	mg/L	0.00136	0.1822	mg/L	0.00136	0.75%
Be 313.042†	72.4	0.00022	mg/L	0.000059	0.00022	mg/L	0.000059	27.02%
Ca 317.933†	1790127.3	250.1	mg/L	1.96	250.1	mg/L	1.96	0.79%
Cd 228.802†	7.6	0.00006	mg/L	0.000176	0.00006	mg/L	0.000176	317.28%
Co 228.616†	28.8	0.00109	mg/L	0.000096	0.00109	mg/L	0.000096	8.84%
Cr 267.716†	19.1	-0.00094	mg/L	0.000741	-0.00094	mg/L	0.000741	78.46%
Cu 324.752†	1283.3	0.00835	mg/L	0.000171	0.00835	mg/L	0.000171	2.05%
Fe 273.955†	57.8	0.07368	mg/L	0.001420	0.07368	mg/L	0.001420	1.93%
K 766.490†	27047.5	22.23	mg/L	0.182	22.23	mg/L	0.182	0.82%
Mg 279.077†	45690.3	56.09	mg/L	0.535	56.09	mg/L	0.535	0.95%
Mn 257.610†	1999.6	0.06680	mg/L	0.000131	0.06680	mg/L	0.000131	0.20%
Mo 202.031†	223.9	0.01074	mg/L	0.000577	0.01074	mg/L	0.000577	5.38%
Na 589.592†	388228.1	51.88	mg/L	0.157	51.88	mg/L	0.157	0.30%
Na 330.237†	940.6	55.89	mg/L	0.534	55.89	mg/L	0.534	0.96%
Ni 231.604†	11.8	0.00329	mg/L	0.000891	0.00329	mg/L	0.000891	27.06%
Pb 220.353†	-12.0	-0.00183	mg/L	0.001055	-0.00183	mg/L	0.001055	57.82%
Sb 206.836†	23.5	0.00929	mg/L	0.002061	0.00929	mg/L	0.002061	22.17%
Se 196.026†	27.6	0.02993	mg/L	0.007292	0.02993	mg/L	0.007292	24.37%
Si 288.158†	20942.9	17.85	mg/L	0.146	17.85	mg/L	0.146	0.82%
Sn 189.927†	-141.5	0.00806	mg/L	0.001190	0.00806	mg/L	0.001190	14.77%
Sr 421.552†	1010274.8	2.036	mg/L	0.0072	2.036	mg/L	0.0072	0.36%
Ti 334.903†	280.9	0.00157	mg/L	0.000622	0.00157	mg/L	0.000622	39.67%
Tl 190.801†	28.0	0.00632	mg/L	0.002632	0.00632	mg/L	0.002632	41.67%
V 292.402†	629.7	0.00622	mg/L	0.000140	0.00622	mg/L	0.000140	2.25%
Zn 206.200†	10.3	0.00673	mg/L	0.000687	0.00673	mg/L	0.000687	10.20%

Sequence No.: 8
Sample ID: 16J0378-12

Autosampler Location: 319
Date Collected: 10/28/2016 1:02:43 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0378-12

Analyte	Back Pressure	Flow
All	143.0 kPa	0.65 L/min

Mean Data: 16J0378-12

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1784181.6	101.9	%	0.13				0.12%
ScR 361.383	199813.8	103.8	%	0.89				0.86%
Ag 328.068†	-67.6	-0.00052	mg/L	0.000409	-0.00052	mg/L	0.000409	78.41%
Al 308.215†	8.7	0.00927	mg/L	0.000991	0.00927	mg/L	0.000991	10.69%
As 188.979†	45.3	0.03306	mg/L	0.002236	0.03306	mg/L	0.002236	6.76%
B 249.677†	1724.5	0.3335	mg/L	0.00254	0.3335	mg/L	0.00254	0.76%
Ba 233.527†	976.7	0.1646	mg/L	0.00108	0.1646	mg/L	0.00108	0.66%
Be 313.042†	50.2	0.00015	mg/L	0.000021	0.00015	mg/L	0.000021	13.80%
Ca 317.933†	483583.7	67.56	mg/L	0.132	67.56	mg/L	0.132	0.19%
Cd 228.802†	2.4	-0.00005	mg/L	0.000232	-0.00005	mg/L	0.000232	429.07%
Co 228.616†	111.2	0.00437	mg/L	0.000086	0.00437	mg/L	0.000086	1.96%
Cr 267.716†	14.4	0.00013	mg/L	0.000479	0.00013	mg/L	0.000479	357.58%
Cu 324.752†	628.1	0.00381	mg/L	0.000035	0.00381	mg/L	0.000035	0.93%
Fe 273.955†	364.7	0.4649	mg/L	0.00535	0.4649	mg/L	0.00535	1.15%
K 766.490†	23723.3	19.50	mg/L	0.110	19.50	mg/L	0.110	0.56%
Mg 279.077†	25516.8	31.33	mg/L	0.249	31.33	mg/L	0.249	0.79%
Mn 257.610†	8302.1	0.2790	mg/L	0.00277	0.2790	mg/L	0.00277	0.99%
Mo 202.031†	91.7	0.00491	mg/L	0.000261	0.00491	mg/L	0.000261	5.31%
Na 589.592†	3745326.7	500.5	mg/L	3.19	500.5	mg/L	3.19	0.64%
Na 330.237†	8979.5	533.5	mg/L	4.35	533.5	mg/L	4.35	0.81%
Ni 231.604†	155.3	0.04343	mg/L	0.001463	0.04343	mg/L	0.001463	3.37%
Pb 220.353†	-3.1	-0.00047	mg/L	0.001332	-0.00047	mg/L	0.001332	285.37%
Sb 206.836†	11.4	0.00441	mg/L	0.002933	0.00441	mg/L	0.002933	66.53%
Se 196.026†	15.8	0.01715	mg/L	0.005252	0.01715	mg/L	0.005252	30.63%
Si 288.158†	12275.0	10.46	mg/L	0.094	10.46	mg/L	0.094	0.90%
Sn 189.927†	-97.6	-0.01833	mg/L	0.000975	-0.01833	mg/L	0.000975	5.32%
Sr 421.552†	269360.6	0.5428	mg/L	0.00049	0.5428	mg/L	0.00049	0.09%
Ti 334.903†	80.2	0.00072	mg/L	0.000891	0.00072	mg/L	0.000891	123.11%
Tl 190.801†	15.8	0.00740	mg/L	0.001286	0.00740	mg/L	0.001286	17.37%
V 292.402†	81.2	0.00084	mg/L	0.000129	0.00084	mg/L	0.000129	15.46%
Zn 206.200†	61.0	0.02122	mg/L	0.000324	0.02122	mg/L	0.000324	1.53%

Sequence No.: 9
Sample ID: BEJ0759-DUP1

Autosampler Location: 320
Date Collected: 10/28/2016 1:07:15 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0759-DUP1

Analyte	Back Pressure	Flow
All	145.0 kPa	0.65 L/min

Mean Data: BEJ0759-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1790192.6	102.3	%	0.46				0.45%
ScR 361.383	203427.0	105.7	%	1.07				1.02%
Ag 328.068†	-43.2	-0.00033	mg/L	0.000180	-0.00033	mg/L	0.000180	54.05%
Al 308.215†	20.0	0.02133	mg/L	0.006104	0.02133	mg/L	0.006104	28.61%
As 188.979†	41.0	0.02957	mg/L	0.002906	0.02957	mg/L	0.002906	9.83%
B 249.677†	1701.4	0.3291	mg/L	0.00260	0.3291	mg/L	0.00260	0.79%
Ba 233.527†	954.3	0.1608	mg/L	0.00205	0.1608	mg/L	0.00205	1.27%
Be 313.042†	37.6	0.00011	mg/L	0.000090	0.00011	mg/L	0.000090	78.83%
Ca 317.933†	478936.1	66.91	mg/L	0.331	66.91	mg/L	0.331	0.49%
Cd 228.802†	2.7	-0.00002	mg/L	0.000115	-0.00002	mg/L	0.000115	705.84%
Co 228.616†	107.9	0.00424	mg/L	0.000029	0.00424	mg/L	0.000029	0.68%
Cr 267.716†	11.9	-0.00026	mg/L	0.000108	-0.00026	mg/L	0.000108	41.82%
Cu 324.752†	678.8	0.00417	mg/L	0.000161	0.00417	mg/L	0.000161	3.86%
Fe 273.955†	342.0	0.4359	mg/L	0.00513	0.4359	mg/L	0.00513	1.18%
K 766.490†	23441.5	19.26	mg/L	0.068	19.26	mg/L	0.068	0.35%
Mg 279.077†	25063.7	30.77	mg/L	0.296	30.77	mg/L	0.296	0.96%
Mn 257.610†	8073.6	0.2713	mg/L	0.00237	0.2713	mg/L	0.00237	0.87%
Mo 202.031†	88.0	0.00468	mg/L	0.000297	0.00468	mg/L	0.000297	6.34%
Na 589.592†	3676035.7	491.3	mg/L	3.70	491.3	mg/L	3.70	0.75%
Na 330.237†	8826.9	524.4	mg/L	3.57	524.4	mg/L	3.57	0.68%
Ni 231.604†	154.4	0.04319	mg/L	0.001168	0.04319	mg/L	0.001168	2.70%
Pb 220.353†	-3.2	-0.00049	mg/L	0.002035	-0.00049	mg/L	0.002035	419.00%
Sb 206.836†	14.0	0.00546	mg/L	0.001715	0.00546	mg/L	0.001715	31.39%
Se 196.026†	13.5	0.01462	mg/L	0.001106	0.01462	mg/L	0.001106	7.56%
Si 288.158†	12104.9	10.32	mg/L	0.095	10.32	mg/L	0.095	0.92%
Sn 189.927†	-96.3	-0.01801	mg/L	0.000990	-0.01801	mg/L	0.000990	5.50%
Sr 421.552†	263646.7	0.5313	mg/L	0.00116	0.5313	mg/L	0.00116	0.22%
Ti 334.903†	73.7	0.00032	mg/L	0.001194	0.00032	mg/L	0.001194	377.75%
Tl 190.801†	15.8	0.00744	mg/L	0.002520	0.00744	mg/L	0.002520	33.89%
V 292.402†	82.0	0.00084	mg/L	0.000182	0.00084	mg/L	0.000182	21.57%
Zn 206.200†	58.6	0.02044	mg/L	0.000563	0.02044	mg/L	0.000563	2.75%

Sequence No.: 10
Sample ID: 16J0378-08

Autosampler Location: 321
Date Collected: 10/28/2016 1:11:47 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0378-08

Analyte	Back Pressure	Flow
All	147.0 kPa	0.65 L/min

Mean Data: 16J0378-08

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1793234.1	102.4	%	0.72				0.70%
ScR 361.383	204885.9	106.4	%	0.38				0.36%
Ag 328.068†	-74.5	-0.00057	mg/L	0.000149	-0.00057	mg/L	0.000149	25.93%
Al 308.215†	20.4	0.02180	mg/L	0.003275	0.02180	mg/L	0.003275	15.02%
As 188.979†	44.7	0.03256	mg/L	0.001442	0.03256	mg/L	0.001442	4.43%
B 249.677†	1679.0	0.3248	mg/L	0.00338	0.3248	mg/L	0.00338	1.04%
Ba 233.527†	961.3	0.1620	mg/L	0.00043	0.1620	mg/L	0.00043	0.27%
Be 313.042†	13.2	0.00004	mg/L	0.000076	0.00004	mg/L	0.000076	191.76%
Ca 317.933†	479906.7	67.04	mg/L	0.398	67.04	mg/L	0.398	0.59%
Cd 228.802†	7.8	0.00026	mg/L	0.000045	0.00026	mg/L	0.000045	17.17%
Co 228.616†	107.6	0.00423	mg/L	0.000306	0.00423	mg/L	0.000306	7.24%
Cr 267.716†	14.1	0.00014	mg/L	0.000375	0.00014	mg/L	0.000375	259.33%
Cu 324.752†	643.4	0.00392	mg/L	0.000092	0.00392	mg/L	0.000092	2.33%
Fe 273.955†	339.9	0.4333	mg/L	0.00938	0.4333	mg/L	0.00938	2.16%
K 766.490†	23359.8	19.20	mg/L	0.005	19.20	mg/L	0.005	0.03%
Mg 279.077†	24963.5	30.65	mg/L	0.162	30.65	mg/L	0.162	0.53%
Mn 257.610†	8068.1	0.2712	mg/L	0.00175	0.2712	mg/L	0.00175	0.65%
Mo 202.031†	92.2	0.00495	mg/L	0.000058	0.00495	mg/L	0.000058	1.17%
Na 589.592†	3655622.4	488.5	mg/L	1.64	488.5	mg/L	1.64	0.34%
Na 330.237†	8794.3	522.5	mg/L	2.09	522.5	mg/L	2.09	0.40%
Ni 231.604†	153.8	0.04302	mg/L	0.001009	0.04302	mg/L	0.001009	2.35%
Pb 220.353†	-4.8	-0.00072	mg/L	0.000635	-0.00072	mg/L	0.000635	88.62%
Sb 206.836†	9.8	0.00373	mg/L	0.001301	0.00373	mg/L	0.001301	34.83%
Se 196.026†	16.4	0.01779	mg/L	0.002824	0.01779	mg/L	0.002824	15.88%
Si 288.158†	12018.7	10.24	mg/L	0.025	10.24	mg/L	0.025	0.25%
Sn 189.927†	-93.0	-0.01686	mg/L	0.000616	-0.01686	mg/L	0.000616	3.65%
Sr 421.552†	263560.5	0.5311	mg/L	0.00131	0.5311	mg/L	0.00131	0.25%
Ti 334.903†	72.0	0.00019	mg/L	0.000661	0.00019	mg/L	0.000661	355.28%
Tl 190.801†	10.1	0.00348	mg/L	0.003566	0.00348	mg/L	0.003566	102.45%
V 292.402†	79.9	0.00082	mg/L	0.000057	0.00082	mg/L	0.000057	6.97%
Zn 206.200†	62.3	0.02158	mg/L	0.000788	0.02158	mg/L	0.000788	3.65%

Sequence No.: 11
Sample ID: BEJ0759-MS1

Autosampler Location: 322
Date Collected: 10/28/2016 1:16:19 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0759-MS1

Analyte	Back Pressure	Flow
All	147.0 kPa	0.65 L/min

Mean Data: BEJ0759-MS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1810449.6	103.4	%	0.10				0.10%
ScR 361.383	203149.7	105.5	%	0.83				0.79%
Ag 328.068†	59031.1	0.4557	mg/L	0.00301	0.4557	mg/L	0.00301	0.66%
Al 308.215†	1976.4	2.114	mg/L	0.0057	2.114	mg/L	0.0057	0.27%
As 188.979†	2779.6	2.262	mg/L	0.0055	2.262	mg/L	0.0055	0.24%
B 249.677†	1712.4	0.3298	mg/L	0.00268	0.3298	mg/L	0.00268	0.81%
Ba 233.527†	12913.7	2.177	mg/L	0.0129	2.177	mg/L	0.0129	0.59%
Be 313.042†	168162.0	0.5100	mg/L	0.00129	0.5100	mg/L	0.00129	0.25%
Ca 317.933†	546534.4	76.35	mg/L	0.038	76.35	mg/L	0.038	0.05%
Cd 228.802†	9126.9	0.5146	mg/L	0.00299	0.5146	mg/L	0.00299	0.58%
Co 228.616†	12736.9	0.5035	mg/L	0.00072	0.5035	mg/L	0.00072	0.14%
Cr 267.716†	2967.0	0.5104	mg/L	0.00319	0.5104	mg/L	0.00319	0.62%
Cu 324.752†	71192.8	0.4946	mg/L	0.00290	0.4946	mg/L	0.00290	0.59%
Fe 273.955†	2006.7	2.554	mg/L	0.0117	2.554	mg/L	0.0117	0.46%
K 766.490†	36376.2	29.89	mg/L	0.090	29.89	mg/L	0.090	0.30%
Mg 279.077†	33867.8	41.58	mg/L	0.213	41.58	mg/L	0.213	0.51%
Mn 257.610†	23075.3	0.7765	mg/L	0.00473	0.7765	mg/L	0.00473	0.61%
Mo 202.031†	90.7	0.00472	mg/L	0.000285	0.00472	mg/L	0.000285	6.04%
Na 589.592†	3713208.8	496.2	mg/L	3.46	496.2	mg/L	3.46	0.70%
Na 330.237†	9013.7	535.3	mg/L	2.03	535.3	mg/L	2.03	0.38%
Ni 231.604†	1966.1	0.5490	mg/L	0.00257	0.5490	mg/L	0.00257	0.47%
Pb 220.353†	12854.1	1.942	mg/L	0.0107	1.942	mg/L	0.0107	0.55%
Sb 206.836†	26.7	0.00461	mg/L	0.003722	0.00461	mg/L	0.003722	80.66%
Se 196.026†	2122.7	2.298	mg/L	0.0136	2.298	mg/L	0.0136	0.59%
Si 288.158†	12351.5	10.53	mg/L	0.042	10.53	mg/L	0.042	0.40%
Sn 189.927†	-99.8	-0.01702	mg/L	0.000426	-0.01702	mg/L	0.000426	2.50%
Sr 421.552†	511972.1	1.032	mg/L	0.0021	1.032	mg/L	0.0021	0.21%
Ti 334.903†	97.6	0.00118	mg/L	0.000869	0.00118	mg/L	0.000869	73.49%
Tl 190.801†	2801.8	1.908	mg/L	0.0016	1.908	mg/L	0.0016	0.09%
V 292.402†	51121.0	0.5059	mg/L	0.00353	0.5059	mg/L	0.00353	0.70%
Zn 206.200†	1737.4	0.5482	mg/L	0.00381	0.5482	mg/L	0.00381	0.69%

Sequence No.: 12
Sample ID: BEJ0759-BS1

Autosampler Location: 323
Date Collected: 10/28/2016 1:23:19 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0759-BS1

Analyte	Back Pressure	Flow
All	146.0 kPa	0.65 L/min

Mean Data: BEJ0759-BS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1898955.2	108.5	%	0.57				0.53%
ScR 361.383	209364.4	108.8	%	0.81				0.75%
Ag 328.068†	72302.5	0.5581	mg/L	0.00710	0.5581	mg/L	0.00710	1.27%
Al 308.215†	2008.0	2.147	mg/L	0.0111	2.147	mg/L	0.0111	0.52%
As 188.979†	2690.1	2.193	mg/L	0.0099	2.193	mg/L	0.0099	0.45%
B 249.677†	2.9	-0.00087	mg/L	0.001307	-0.00087	mg/L	0.001307	150.78%
Ba 233.527†	12278.7	2.070	mg/L	0.0189	2.070	mg/L	0.0189	0.91%
Be 313.042†	173459.4	0.5261	mg/L	0.00488	0.5261	mg/L	0.00488	0.93%
Ca 317.933†	75146.0	10.50	mg/L	0.089	10.50	mg/L	0.089	0.84%
Cd 228.802†	9641.8	0.5448	mg/L	0.00473	0.5448	mg/L	0.00473	0.87%
Co 228.616†	13185.6	0.5213	mg/L	0.00804	0.5213	mg/L	0.00804	1.54%
Cr 267.716†	3011.0	0.5202	mg/L	0.00637	0.5202	mg/L	0.00637	1.22%
Cu 324.752†	71555.5	0.4977	mg/L	0.00519	0.4977	mg/L	0.00519	1.04%
Fe 273.955†	1692.5	2.153	mg/L	0.0252	2.153	mg/L	0.0252	1.17%
K 766.490†	13351.4	10.97	mg/L	0.030	10.97	mg/L	0.030	0.27%
Mg 279.077†	8871.9	10.89	mg/L	0.112	10.89	mg/L	0.112	1.03%
Mn 257.610†	15190.0	0.5116	mg/L	0.00515	0.5116	mg/L	0.00515	1.01%
Mo 202.031†	16.9	0.00094	mg/L	0.000303	0.00094	mg/L	0.000303	32.39%
Na 589.592†	79505.7	10.62	mg/L	0.075	10.62	mg/L	0.075	0.71%
Na 330.237†	195.1	11.39	mg/L	0.201	11.39	mg/L	0.201	1.76%
Ni 231.604†	1889.5	0.5274	mg/L	0.00573	0.5274	mg/L	0.00573	1.09%
Pb 220.353†	14079.9	2.128	mg/L	0.0297	2.128	mg/L	0.0297	1.40%
Sb 206.836†	11.5	-0.00150	mg/L	0.000897	-0.00150	mg/L	0.000897	59.78%
Se 196.026†	2230.7	2.415	mg/L	0.0150	2.415	mg/L	0.0150	0.62%
Si 288.158†	-14.1	-0.00884	mg/L	0.003552	-0.00884	mg/L	0.003552	40.18%
Sn 189.927†	-29.2	-0.00763	mg/L	0.001336	-0.00763	mg/L	0.001336	17.51%
Sr 421.552†	255180.9	0.5142	mg/L	0.00286	0.5142	mg/L	0.00286	0.56%
Ti 334.903†	10.7	-0.00013	mg/L	0.000385	-0.00013	mg/L	0.000385	291.12%
Tl 190.801†	3149.2	2.149	mg/L	0.0163	2.149	mg/L	0.0163	0.76%
V 292.402†	53144.6	0.5259	mg/L	0.00684	0.5259	mg/L	0.00684	1.30%
Zn 206.200†	1718.0	0.5400	mg/L	0.00759	0.5400	mg/L	0.00759	1.41%

Sequence No.: 13
Sample ID: SEQ-CCV4

Autosampler Location: 7
Date Collected: 10/28/2016 1:30:01 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCV4

Analyte	Back Pressure	Flow
All	146.0 kPa	0.65 L/min

Mean Data: SEQ-CCV4

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1861971.7	106.4	%	0.14				0.13%
ScR 361.383	204172.0	106.1	%	0.16				0.15%
Ag 328.068†	133494.6	1.030	mg/L	0.0065	1.030	mg/L	0.0065	0.63%
Al 308.215†	1987.0	2.099	mg/L	0.0046	2.099	mg/L	0.0046	0.22%
As 188.979†	2509.0	2.073	mg/L	0.0048	2.073	mg/L	0.0048	0.23%
B 249.677†	5269.8	1.018	mg/L	0.0012	1.018	mg/L	0.0012	0.12%
Ba 233.527†	6107.7	1.029	mg/L	0.0007	1.029	mg/L	0.0007	0.07%
Be 313.042†	343678.3	1.042	mg/L	0.0018	1.042	mg/L	0.0018	0.17%
Ca 317.933†	15527.6	2.169	mg/L	0.0034	2.169	mg/L	0.0034	0.15%
Cd 228.802†	17785.7	1.017	mg/L	0.0083	1.017	mg/L	0.0083	0.82%
Co 228.616†	25545.2	1.008	mg/L	0.0094	1.008	mg/L	0.0094	0.93%
Cr 267.716†	6031.7	1.044	mg/L	0.0009	1.044	mg/L	0.0009	0.09%
Cu 324.752†	142134.6	0.9880	mg/L	0.00821	0.9880	mg/L	0.00821	0.83%
Fe 273.955†	1682.9	2.137	mg/L	0.0086	2.137	mg/L	0.0086	0.40%
K 766.490†	25739.2	21.15	mg/L	0.151	21.15	mg/L	0.151	0.71%
Mg 279.077†	1729.4	2.131	mg/L	0.0063	2.131	mg/L	0.0063	0.30%
Mn 257.610†	29115.9	0.9801	mg/L	0.00271	0.9801	mg/L	0.00271	0.28%
Mo 202.031†	15190.1	0.9780	mg/L	0.00996	0.9780	mg/L	0.00996	1.02%
Na 589.592†	380249.5	50.82	mg/L	0.199	50.82	mg/L	0.199	0.39%
Na 330.237†	917.6	54.36	mg/L	0.283	54.36	mg/L	0.283	0.52%
Ni 231.604†	3747.3	1.048	mg/L	0.0012	1.048	mg/L	0.0012	0.11%
Pb 220.353†	13399.2	2.025	mg/L	0.0161	2.025	mg/L	0.0161	0.79%
Sb 206.836†	5110.0	2.117	mg/L	0.0018	2.117	mg/L	0.0018	0.09%
Se 196.026†	1941.4	2.101	mg/L	0.0033	2.101	mg/L	0.0033	0.16%
Si 288.158†	2498.7	2.126	mg/L	0.0032	2.126	mg/L	0.0032	0.15%
Sn 189.927†	2946.8	1.019	mg/L	0.0015	1.019	mg/L	0.0015	0.15%
Sr 421.552†	507705.5	1.023	mg/L	0.0027	1.023	mg/L	0.0027	0.27%
Ti 334.903†	14603.0	1.015	mg/L	0.0040	1.015	mg/L	0.0040	0.39%
Tl 190.801†	2977.9	2.029	mg/L	0.0006	2.029	mg/L	0.0006	0.03%
V 292.402†	102465.0	1.014	mg/L	0.0070	1.014	mg/L	0.0070	0.69%
Zn 206.200†	3402.6	1.070	mg/L	0.0030	1.070	mg/L	0.0030	0.28%

Sequence No.: 14
Sample ID: SEQ-CCB4

Autosampler Location: 1
Date Collected: 10/28/2016 1:36:45 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCB4

Analyte	Back Pressure	Flow
All	146.0 kPa	0.65 L/min

Mean Data: SEQ-CCB4

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1827266.7	104.4	%	0.10				0.10%
ScR 361.383	201269.0	104.6	%	0.62				0.59%
Ag 328.068†	16.1	0.00012	mg/L	0.000088	0.00012	mg/L	0.000088	70.66%
Al 308.215†	6.6	0.00704	mg/L	0.003026	0.00704	mg/L	0.003026	43.01%
As 188.979†	0.8	0.00061	mg/L	0.001642	0.00061	mg/L	0.001642	269.09%
B 249.677†	6.7	0.00130	mg/L	0.001078	0.00130	mg/L	0.001078	83.08%
Ba 233.527†	2.7	0.00046	mg/L	0.000459	0.00046	mg/L	0.000459	99.57%
Be 313.042†	-7.1	-0.00002	mg/L	0.000019	-0.00002	mg/L	0.000019	88.08%
Ca 317.933†	11.4	0.00159	mg/L	0.001519	0.00159	mg/L	0.001519	95.60%
Cd 228.802†	-2.9	-0.00017	mg/L	0.000255	-0.00017	mg/L	0.000255	149.32%
Co 228.616†	3.9	0.00015	mg/L	0.000108	0.00015	mg/L	0.000108	70.31%
Cr 267.716†	3.5	0.00060	mg/L	0.001440	0.00060	mg/L	0.001440	239.90%
Cu 324.752†	-5.5	-0.00004	mg/L	0.000139	-0.00004	mg/L	0.000139	357.48%
Fe 273.955†	1.4	0.00179	mg/L	0.001716	0.00179	mg/L	0.001716	95.75%
K 766.490†	70.3	0.05778	mg/L	0.009517	0.05778	mg/L	0.009517	16.47%
Mg 279.077†	-3.4	-0.00421	mg/L	0.009878	-0.00421	mg/L	0.009878	234.55%
Mn 257.610†	-1.0	-0.00003	mg/L	0.000115	-0.00003	mg/L	0.000115	342.26%
Mo 202.031†	9.9	0.00064	mg/L	0.000216	0.00064	mg/L	0.000216	33.88%
Na 589.592†	336.9	0.04503	mg/L	0.005871	0.04503	mg/L	0.005871	13.04%
Na 330.237†	11.6	0.6874	mg/L	0.25665	0.6874	mg/L	0.25665	37.34%
Ni 231.604†	-1.8	-0.00051	mg/L	0.000864	-0.00051	mg/L	0.000864	167.92%
Pb 220.353†	7.5	0.00114	mg/L	0.000221	0.00114	mg/L	0.000221	19.45%
Sb 206.836†	-0.2	-0.00010	mg/L	0.002165	-0.00010	mg/L	0.002165	>999.9%
Se 196.026†	0.7	0.00073	mg/L	0.001540	0.00073	mg/L	0.001540	211.02%
Si 288.158†	-1.7	-0.00142	mg/L	0.002864	-0.00142	mg/L	0.002864	202.06%
Sn 189.927†	-2.9	-0.00102	mg/L	0.000781	-0.00102	mg/L	0.000781	76.80%
Sr 421.552†	-14.7	-0.00003	mg/L	0.000061	-0.00003	mg/L	0.000061	205.93%
Ti 334.903†	-2.4	-0.00017	mg/L	0.000410	-0.00017	mg/L	0.000410	245.19%
Tl 190.801†	-1.9	-0.00129	mg/L	0.003025	-0.00129	mg/L	0.003025	234.94%
V 292.402†	-8.4	-0.00008	mg/L	0.000142	-0.00008	mg/L	0.000142	178.82%
Zn 206.200†	-0.1	-0.00004	mg/L	0.000356	-0.00004	mg/L	0.000356	861.62%

Sequence No.: 15
Sample ID: BEJ0643-BLK1 Dcl
Autosampler Location: 324
Date Collected: 10/28/2016 1:40:45 PM
Data Type: Original

Dilution: 1.000000X

missed tube JH 10-28-16

Nebulizer Parameters: BEJ0643-BLK1

Analyte	Back Pressure	Flow
All	148.0 kPa	0.65 L/min

Mean Data: BEJ0643-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	3974630.6	227.1	%	29.73				13.10%
ScR 361.383	395045.1	205.2	%	9.90				4.83%
Ag 328.068†	52.2	0.00040	mg/L	0.000131	0.00040	mg/L	0.000131	32.51%
Al 308.215†	41.2	0.04423	mg/L	0.001826	0.04423	mg/L	0.001826	4.13%
As 188.979†	0.5	-0.00002	mg/L	0.001537	-0.00002	mg/L	0.001537	>999.9%
B 249.677†	-39.8	-0.00771	mg/L	0.000413	-0.00771	mg/L	0.000413	5.36%
Ba 233.527†	16.0	0.00268	mg/L	0.000434	0.00268	mg/L	0.000434	16.17%
Be 313.042†	-578.2	-0.00175	mg/L	0.000059	-0.00175	mg/L	0.000059	3.38%
Ca 317.933†	184.9	0.02582	mg/L	0.000819	0.02582	mg/L	0.000819	3.17%
Cd 228.802†	-45.6	-0.00263	mg/L	0.001497	-0.00263	mg/L	0.001497	56.83%
Co 228.616†	51.0	0.00204	mg/L	0.000249	0.00204	mg/L	0.000249	12.22%
Cr 267.716†	23.9	0.00414	mg/L	0.000276	0.00414	mg/L	0.000276	6.67%
Cu 324.752†	-485.0	-0.00337	mg/L	0.000186	-0.00337	mg/L	0.000186	5.52%
Fe 273.955†	60.4	0.07699	mg/L	0.001664	0.07699	mg/L	0.001664	2.16%
K 766.490†	-144.8	-0.1190	mg/L	0.01142	-0.1190	mg/L	0.01142	9.59%
Mg 279.077†	73.4	0.09010	mg/L	0.003410	0.09010	mg/L	0.003410	3.79%
Mn 257.610†	97.0	0.00326	mg/L	0.000057	0.00326	mg/L	0.000057	1.75%
Mo 202.031†	-26.4	-0.00170	mg/L	0.000185	-0.00170	mg/L	0.000185	10.86%
Na 589.592†	-116.0	-0.01550	mg/L	0.010037	-0.01550	mg/L	0.010037	64.75%
Na 330.237†	41.4	2.452	mg/L	0.1294	2.452	mg/L	0.1294	5.28%
Ni 231.604†	22.2	0.00619	mg/L	0.000643	0.00619	mg/L	0.000643	10.39%
Pb 220.353†	-6.6	-0.00098	mg/L	0.000570	-0.00098	mg/L	0.000570	58.17%
Sb 206.836†	-36.3	-0.01513	mg/L	0.002005	-0.01513	mg/L	0.002005	13.25%
Se 196.026†	11.5	0.01240	mg/L	0.002726	0.01240	mg/L	0.002726	21.98%
Si 288.158†	-36.7	-0.03114	mg/L	0.002757	-0.03114	mg/L	0.002757	8.85%
Sn 189.927†	4.7	0.00162	mg/L	0.000138	0.00162	mg/L	0.000138	8.52%
Sr 421.552†	-224.6	-0.00045	mg/L	0.000012	-0.00045	mg/L	0.000012	2.62%
Ti 334.903†	-191.9	-0.01336	mg/L	0.000608	-0.01336	mg/L	0.000608	4.56%
Tl 190.801†	24.8	0.01698	mg/L	0.001398	0.01698	mg/L	0.001398	8.24%
V 292.402†	-108.0	-0.00104	mg/L	0.000039	-0.00104	mg/L	0.000039	3.72%
Zn 206.200†	11.7	0.00368	mg/L	0.000573	0.00368	mg/L	0.000573	15.58%

Sequence No.: 16
Sample ID: 16J0341-01

Autosampler Location: 325
Date Collected: 10/28/2016 1:45:00 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0341-01

Analyte	Back Pressure	Flow
All	145.0 kPa	0.65 L/min

Mean Data: 16J0341-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1789347.0	102.2	%	0.96				0.94%
ScR 361.383	205340.5	106.7	%	0.40				0.37%
Ag 328.068†	-84.3	-0.00063	mg/L	0.000253	-0.00063	mg/L	0.000253	39.89%
Al 308.215†	5078.9	5.450	mg/L	0.0093	5.450	mg/L	0.0093	0.17%
As 188.979†	16.6	0.01247	mg/L	0.004891	0.01247	mg/L	0.004891	39.23%
B 249.677†	625.9	0.1210	mg/L	0.00071	0.1210	mg/L	0.00071	0.59%
Ba 233.527†	368.3	0.05172	mg/L	0.000584	0.05172	mg/L	0.000584	1.13%
Be 313.042†	148.7	0.00044	mg/L	0.000056	0.00044	mg/L	0.000056	12.76%
Ca 317.933†	414893.7	57.96	mg/L	0.658	57.96	mg/L	0.658	1.14%
Cd 228.802†	7.7	-0.00042	mg/L	0.000123	-0.00042	mg/L	0.000123	29.04%
Co 228.616†	149.7	0.00576	mg/L	0.000140	0.00576	mg/L	0.000140	2.43%
Cr 267.716†	67.5	0.01077	mg/L	0.000280	0.01077	mg/L	0.000280	2.60%
Cu 324.752†	1933.9	0.01739	mg/L	0.000343	0.01739	mg/L	0.000343	1.97%
Fe 273.955†	74107.3	94.46	mg/L	0.460	94.46	mg/L	0.460	0.49%
K 766.490†	17982.0	14.78	mg/L	0.024	14.78	mg/L	0.024	0.16%
Mg 279.077†	62635.1	76.82	mg/L	0.438	76.82	mg/L	0.438	0.57%
Mn 257.610†	53460.4	1.798	mg/L	0.0070	1.798	mg/L	0.0070	0.39%
Mo 202.031†	105.7	0.00595	mg/L	0.000386	0.00595	mg/L	0.000386	6.48%
Na 589.592†	2258538.5	301.8	mg/L	0.34	301.8	mg/L	0.34	0.11%
Na 330.237†	5234.6	311.0	mg/L	1.57	311.0	mg/L	1.57	0.50%
Ni 231.604†	36.4	0.01019	mg/L	0.001906	0.01019	mg/L	0.001906	18.70%
Pb 220.353†	43.5	0.00792	mg/L	0.000563	0.00792	mg/L	0.000563	7.11%
Sb 206.836†	12.0	0.00479	mg/L	0.002630	0.00479	mg/L	0.002630	54.86%
Se 196.026†	18.2	0.01906	mg/L	0.003777	0.01906	mg/L	0.003777	19.82%
Si 288.158†	46661.5	39.76	mg/L	0.099	39.76	mg/L	0.099	0.25%
Sn 189.927†	-92.4	-0.01870	mg/L	0.000696	-0.01870	mg/L	0.000696	3.72%
Sr 421.552†	243343.8	0.4904	mg/L	0.00115	0.4904	mg/L	0.00115	0.23%
Ti 334.903†	1202.8	0.07952	mg/L	0.000347	0.07952	mg/L	0.000347	0.44%
Tl 190.801†	-8.2	0.00252	mg/L	0.001785	0.00252	mg/L	0.001785	70.82%
V 292.402†	5647.0	0.05232	mg/L	0.000711	0.05232	mg/L	0.000711	1.36%
Zn 206.200†	86.7	0.03508	mg/L	0.001115	0.03508	mg/L	0.001115	3.18%

Sequence No.: 17
Sample ID: 16J0336-01

Autosampler Location: 326
Date Collected: 10/28/2016 1:49:16 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0336-01

Analyte	Back Pressure	Flow
All	145.0 kPa	0.65 L/min

Mean Data: 16J0336-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1869300.8	106.8	%	0.43				0.40%
ScR 361.383	207350.0	107.7	%	0.64				0.60%
Ag 328.068†	-39.1	-0.00030	mg/L	0.000335	-0.00030	mg/L	0.000335	112.17%
Al 308.215†	13.5	0.01426	mg/L	0.005519	0.01426	mg/L	0.005519	38.70%
As 188.979†	7.9	0.00504	mg/L	0.003474	0.00504	mg/L	0.003474	68.94%
B 249.677†	30.7	0.00594	mg/L	0.000461	0.00594	mg/L	0.000461	7.76%
Ba 233.527†	93.1	0.01569	mg/L	0.000559	0.01569	mg/L	0.000559	3.57%
Be 313.042†	-19.7	-0.00006	mg/L	0.000068	-0.00006	mg/L	0.000068	109.33%
Ca 317.933†	170193.9	23.78	mg/L	0.163	23.78	mg/L	0.163	0.68%
Cd 228.802†	-5.7	-0.00037	mg/L	0.000039	-0.00037	mg/L	0.000039	10.61%
Co 228.616†	6.6	0.00026	mg/L	0.000145	0.00026	mg/L	0.000145	55.94%
Cr 267.716†	6.9	0.00077	mg/L	0.000621	0.00077	mg/L	0.000621	80.90%
Cu 324.752†	72.3	0.00044	mg/L	0.000103	0.00044	mg/L	0.000103	23.09%
Fe 273.955†	58.1	0.07398	mg/L	0.012347	0.07398	mg/L	0.012347	16.69%
K 766.490†	3634.9	2.987	mg/L	0.0056	2.987	mg/L	0.0056	0.19%
Mg 279.077†	4560.3	5.598	mg/L	0.0209	5.598	mg/L	0.0209	0.37%
Mn 257.610†	48.6	0.00159	mg/L	0.000323	0.00159	mg/L	0.000323	20.36%
Mo 202.031†	38.8	0.00215	mg/L	0.000209	0.00215	mg/L	0.000209	9.73%
Na 589.592†	25550.2	3.414	mg/L	0.0522	3.414	mg/L	0.0522	1.53%
Na 330.237†	62.6	3.721	mg/L	0.5372	3.721	mg/L	0.5372	14.44%
Ni 231.604†	2.3	0.00064	mg/L	0.001113	0.00064	mg/L	0.001113	172.83%
Pb 220.353†	0.4	0.00006	mg/L	0.000311	0.00006	mg/L	0.000311	486.53%
Sb 206.836†	-4.2	-0.00188	mg/L	0.001407	-0.00188	mg/L	0.001407	74.95%
Se 196.026†	8.2	0.00886	mg/L	0.001389	0.00886	mg/L	0.001389	15.68%
Si 288.158†	29842.4	25.42	mg/L	0.064	25.42	mg/L	0.064	0.25%
Sn 189.927†	-51.2	-0.01226	mg/L	0.001652	-0.01226	mg/L	0.001652	13.47%
Sr 421.552†	38623.3	0.07783	mg/L	0.000052	0.07783	mg/L	0.000052	0.07%
Ti 334.903†	6.0	-0.00129	mg/L	0.001265	-0.00129	mg/L	0.001265	97.89%
Tl 190.801†	10.0	0.00556	mg/L	0.002382	0.00556	mg/L	0.002382	42.83%
V 292.402†	1173.9	0.01157	mg/L	0.000113	0.01157	mg/L	0.000113	0.98%
Zn 206.200†	7.9	0.00749	mg/L	0.000177	0.00749	mg/L	0.000177	2.36%

Sequence No.: 18
Sample ID: 16J0341-03

Autosampler Location: 327
Date Collected: 10/28/2016 1:53:14 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0341-03

Analyte	Back Pressure	Flow
All	144.0 kPa	0.65 L/min

Mean Data: 16J0341-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1833379.9	104.7	%	0.89				0.85%
ScR 361.383	201571.0	104.7	%	0.42				0.40%
Ag 328.068†	-7.1	-0.00005	mg/L	0.000127	-0.00005	mg/L	0.000127	236.01%
Al 308.215†	141.6	0.1518	mg/L	0.00805	0.1518	mg/L	0.00805	5.30%
As 188.979†	11.2	0.00718	mg/L	0.000192	0.00718	mg/L	0.000192	2.67%
B 249.677†	357.4	0.06909	mg/L	0.001754	0.06909	mg/L	0.001754	2.54%
Ba 233.527†	276.1	0.04263	mg/L	0.000168	0.04263	mg/L	0.000168	0.39%
Be 313.042†	40.5	0.00012	mg/L	0.000044	0.00012	mg/L	0.000044	35.79%
Ca 317.933†	296420.3	41.41	mg/L	0.320	41.41	mg/L	0.320	0.77%
Cd 228.802†	-1.6	-0.00044	mg/L	0.000345	-0.00044	mg/L	0.000345	78.36%
Co 228.616†	332.8	0.01313	mg/L	0.000202	0.01313	mg/L	0.000202	1.54%
Cr 267.716†	1.7	0.00033	mg/L	0.001754	0.00033	mg/L	0.001754	528.78%
Cu 324.752†	-170.7	0.00037	mg/L	0.000213	0.00037	mg/L	0.000213	58.13%
Fe 273.955†	28030.4	35.73	mg/L	0.231	35.73	mg/L	0.231	0.65%
K 766.490†	7502.2	6.165	mg/L	0.0201	6.165	mg/L	0.0201	0.33%
Mg 279.077†	19502.9	23.92	mg/L	0.137	23.92	mg/L	0.137	0.57%
Mn 257.610†	54166.9	1.822	mg/L	0.0084	1.822	mg/L	0.0084	0.46%
Mo 202.031†	50.2	0.00262	mg/L	0.000280	0.00262	mg/L	0.000280	10.69%
Na 589.592†	425962.4	56.92	mg/L	0.089	56.92	mg/L	0.089	0.16%
Na 330.237†	995.5	59.15	mg/L	0.754	59.15	mg/L	0.754	1.28%
Ni 231.604†	48.3	0.01351	mg/L	0.001439	0.01351	mg/L	0.001439	10.65%
Pb 220.353†	2.8	0.00047	mg/L	0.000975	0.00047	mg/L	0.000975	208.14%
Sb 206.836†	8.1	0.00314	mg/L	0.001719	0.00314	mg/L	0.001719	54.82%
Se 196.026†	12.2	0.01313	mg/L	0.005551	0.01313	mg/L	0.005551	42.26%
Si 288.158†	22636.2	19.29	mg/L	0.073	19.29	mg/L	0.073	0.38%
Sn 189.927†	-77.5	-0.01734	mg/L	0.000583	-0.01734	mg/L	0.000583	3.36%
Sr 421.552†	140547.3	0.2832	mg/L	0.00052	0.2832	mg/L	0.00052	0.18%
Ti 334.903†	246.4	0.01417	mg/L	0.000846	0.01417	mg/L	0.000846	5.97%
Tl 190.801†	1.4	0.00304	mg/L	0.000882	0.00304	mg/L	0.000882	29.03%
V 292.402†	257.0	0.00145	mg/L	0.000150	0.00145	mg/L	0.000150	10.37%
Zn 206.200†	2.2	0.00447	mg/L	0.000790	0.00447	mg/L	0.000790	17.67%

Sequence No.: 19
Sample ID: 16J0341-04

Autosampler Location: 328
Date Collected: 10/28/2016 1:57:28 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0341-04

Analyte	Back Pressure	Flow
All	145.0 kPa	0.65 L/min

Mean Data: 16J0341-04

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1685577.8	96.29	%	0.239				0.25%
ScR 361.383	192561.0	100.0	%	0.52				0.52%
Ag 328.068†	-194.4	-0.00150	mg/L	0.000362	-0.00150	mg/L	0.000362	24.12%
Al 308.215†	-5.8	-0.00663	mg/L	0.006722	-0.00663	mg/L	0.006722	101.43%
As 188.979†	45.0	0.02337	mg/L	0.003588	0.02337	mg/L	0.003588	15.35%
B 249.677†	2657.2	0.5140	mg/L	0.00248	0.5140	mg/L	0.00248	0.48%
Ba 233.527†	246.6	0.04155	mg/L	0.000881	0.04155	mg/L	0.000881	2.12%
Be 313.042†	95.3	0.00029	mg/L	0.000008	0.00029	mg/L	0.000008	2.77%
Ca 317.933†	1657632.4	231.6	mg/L	0.70	231.6	mg/L	0.70	0.30%
Cd 228.802†	-13.5	-0.00101	mg/L	0.000396	-0.00101	mg/L	0.000396	39.31%
Co 228.616†	51.8	0.00201	mg/L	0.000074	0.00201	mg/L	0.000074	3.67%
Cr 267.716†	144.9	0.00025	mg/L	0.001803	0.00025	mg/L	0.001803	731.30%
Cu 324.752†	403.8	-0.00048	mg/L	0.000133	-0.00048	mg/L	0.000133	27.65%
Fe 273.955†	141.0	0.1797	mg/L	0.00624	0.1797	mg/L	0.00624	3.48%
K 766.490†	66089.2	54.31	mg/L	0.076	54.31	mg/L	0.076	0.14%
Mg 279.077†	267359.2	328.2	mg/L	0.32	328.2	mg/L	0.32	0.10%
Mn 257.610†	50360.0	1.691	mg/L	0.0032	1.691	mg/L	0.0032	0.19%
Mo 202.031†	315.8	0.01692	mg/L	0.000132	0.01692	mg/L	0.000132	0.78%
Na 589.592†	9598219.7	1283	mg/L	9.38	1283	mg/L	9.38	0.73%
Na 330.237†	22888.7	1360	mg/L	5.77	1360	mg/L	5.77	0.42%
Ni 231.604†	6.4	0.00178	mg/L	0.001171	0.00178	mg/L	0.001171	65.61%
Pb 220.353†	-3.2	-0.00044	mg/L	0.000939	-0.00044	mg/L	0.000939	215.60%
Sb 206.836†	-0.1	-0.00080	mg/L	0.001973	-0.00080	mg/L	0.001973	247.41%
Se 196.026†	38.0	0.04110	mg/L	0.009047	0.04110	mg/L	0.009047	22.01%
Si 288.158†	32162.4	27.44	mg/L	0.107	27.44	mg/L	0.107	0.39%
Sn 189.927†	-117.9	0.01197	mg/L	0.001491	0.01197	mg/L	0.001491	12.45%
Sr 421.552†	979899.2	1.975	mg/L	0.0063	1.975	mg/L	0.0063	0.32%
Ti 334.903†	289.4	0.00348	mg/L	0.000239	0.00348	mg/L	0.000239	6.86%
Tl 190.801†	11.3	-0.00417	mg/L	0.003866	-0.00417	mg/L	0.003866	92.67%
V 292.402†	231.9	0.00265	mg/L	0.000107	0.00265	mg/L	0.000107	4.02%
Zn 206.200†	-24.1	-0.00218	mg/L	0.000703	-0.00218	mg/L	0.000703	32.20%