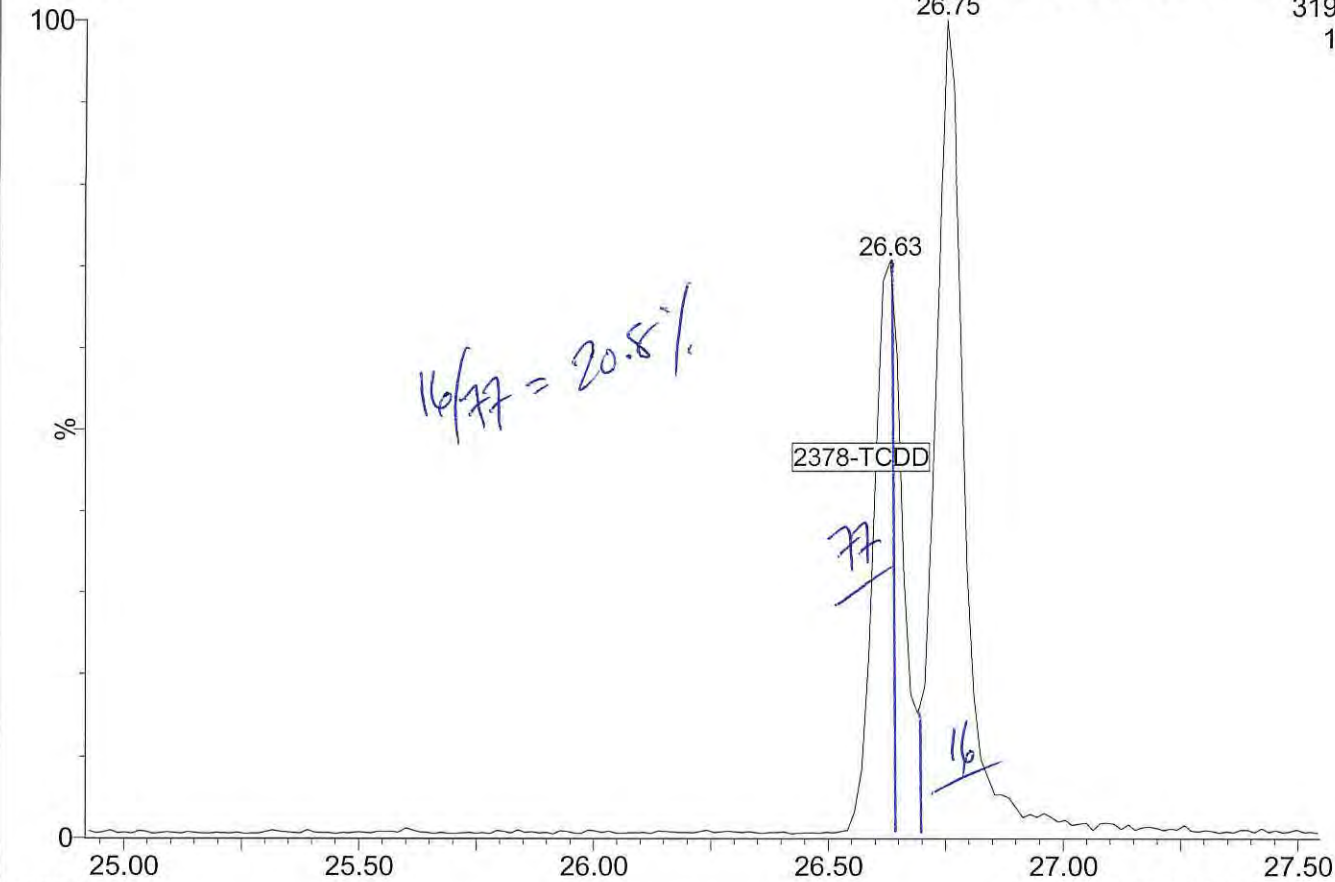


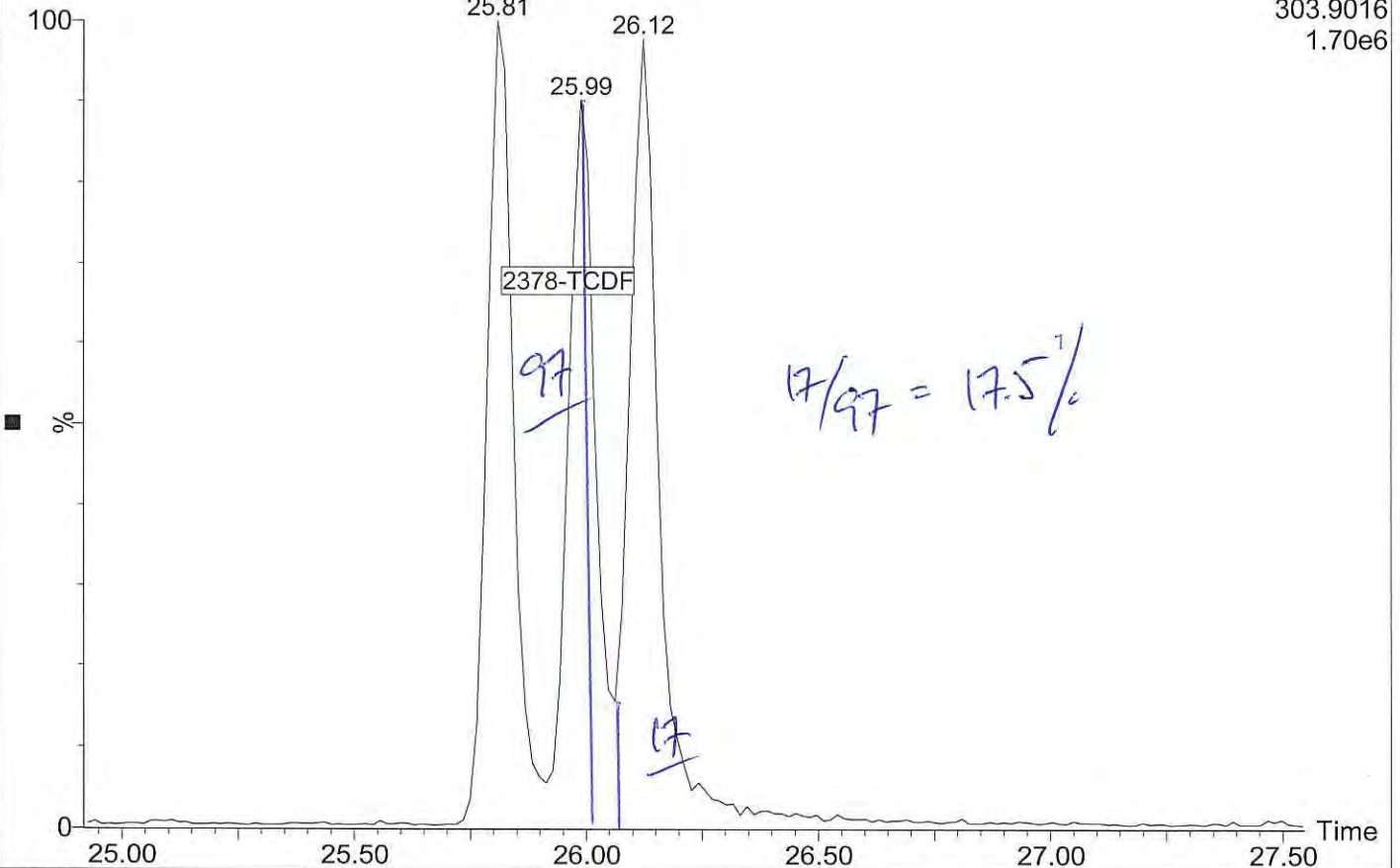
17051903

1: Voltage SIR 15 Channels EI+
319.8965
1.32e6



17051903

1: Voltage SIR 15 Channels EI+
303.9016
1.70e6





CONTINUING CALIBRATION CHECK EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Instrument ID: AUTOSPEC01

Calibration: AE00055

Lab File ID: 17052213

Calibration Date: 05/18/17 14:31

Sequence: SFE0219

Injection Date: 05/22/17

Lab Sample ID: SFE0219-CCV1

Injection Time: 20:03

Sequence Name: CS302

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	9.77	1.0132980	0.9953508		-2.3	16
2,3,7,8-TCDD	A	10.000	9.77	1.1755440	1.2157520		-2.3	22
1,2,3,7,8-PeCDF	A	50.000	48.7	0.9765664	0.9516954		-2.5	18
2,3,4,7,8-PeCDF	A	50.000	50.9	1.0192640	1.0366200		1.7	18
1,2,3,7,8-PeCDD	A	50.000	50.4	1.0582470	1.0671800		0.8	22
1,2,3,4,7,8-HxCDF	A	50.000	50.8	1.1500860	1.1690760		1.7	10
1,2,3,6,7,8-HxCDF	A	50.000	49.2	1.0997540	1.0827170		-1.5	12
2,3,4,6,7,8-HxCDF	A	50.000	51.3	1.1878740	1.2197040		2.7	12
1,2,3,7,8,9-HxCDF	A	50.000	49.9	1.1160500	1.1129740		-0.3	10
1,2,3,4,7,8-HxCDD	A	50.000	47.3	1.1192500	1.0583480		-5.4	22
1,2,3,6,7,8-HxCDD	A	50.000	52.1	1.0402190	1.0834290		4.2	22
1,2,3,7,8,9-HxCDD	A	50.000	50.5	0.9806210	0.9904728		1.0	18
1,2,3,4,6,7,8-HpCDF	A	50.000	48.9	1.2380230	1.2100110		-2.3	10
1,2,3,4,7,8,9-HpCDF	A	50.000	50.3	1.2573640	1.2639990		0.5	14
1,2,3,4,6,7,8-HpCDD	A	50.000	47.5	1.1319240	1.0758370		-5.0	14
OCDF	A	100.00	99.9	1.3207770	1.3190400		-0.1	37
OCDD	A	100.00	95.1	1.1168160	1.0623550		-4.9	21
13C12-2,3,7,8-TCDF	A	100.00	98.3	1.6846640	1.6564763		-1.7	29
13C12-2,3,7,8-TCDD	A	100.00	99.3	0.8727236	0.8664366		-0.7	18
13C12-1,2,3,7,8-PeCDF	A	100.00	79.1	1.7056380	1.3487520		-20.9	24
13C12-2,3,4,7,8-PeCDF	A	100.00	82.5	1.6318430	1.3467770		-17.5	23
13C12-1,2,3,7,8-PeCDD	A	100.00	82.9	0.8600295	0.7128275		-17.1	38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	93.7	1.6821870	1.5754347		-6.3	24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	91.7	1.9454000	1.7839501		-8.3	30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	91.4	1.5821140	1.4455141		-8.6	27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	95.6	1.2907090	1.2338905		-4.4	26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	99.9	1.1136440	1.1124487		-0.1	15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	95.1	1.2584900	1.1974338		-4.9	15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	89.5	1.4265280	1.2769697		-10.5	22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	94.1	0.9569095	0.9003585		-5.9	23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	97.7	0.9236238	0.9024390		-2.3	18
13C12-OCDD	A	200.00	190	0.7383514	0.7024581		-4.9	52
37C14-2,3,7,8-TCDD	A	10.000	10.2	1.0211920	1.0419464		2.0	

* Values outside of QC limits

* Values outside of QC limits

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 10:33:47 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
 Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518ICH.cdb 19 May 2017 13:57:26

ID: CS3B2, Name: 17052213, Date: 22-May-2017, Time: 20:03:43, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	26.003	1.001	1.069e5	1.388e5	1.018	0.771	0.770	1219	1704	1.48e6	1.97e6	1209.9	YES	NO	bb	bb	9.774
12378-PeCDF	30.135	1.001	5.775e5	3.788e5	0.977	1.525	1.550	4062	3949	7.98e6	5.26e6	1964.0	YES	NO	bd	bd	48.727
23478-PeCDF	31.472	1.000	6.339e5	4.063e5	1.019	1.560	1.550	4062	3949	9.41e6	5.94e6	2317.0	YES	NO	dd	dd	50.851
123478-HxCDF	35.144	1.001	4.672e5	3.860e5	1.150	1.210	1.240	3224	3403	6.96e6	5.69e6	2159.7	YES	NO	bd	bd	50.826
234678-HxCDF	36.240	1.001	4.493e5	3.675e5	1.188	1.222	1.240	3224	3403	6.31e6	5.21e6	1956.1	YES	NO	bb	bb	51.340
123678-HxCDF	35.286	1.000	4.908e5	4.040e5	1.100	1.215	1.240	3224	3403	6.81e6	5.68e6	2113.2	YES	NO	db	db	49.225
123789-HxCDF	37.380	1.001	3.477e5	2.885e5	1.116	1.205	1.240	3224	3403	4.88e6	4.06e6	1512.8	YES	NO	bd	bd	49.862
1234678-HpCDF	39.430	1.000	3.571e5	3.587e5	1.238	0.996	1.050	2207	2618	5.05e6	4.97e6	2286.2	YES	NO	bd	bd	48.869
1234789-HpCDF	42.126	1.000	2.646e5	2.626e5	1.257	1.007	1.050	2207	2618	3.09e6	3.06e6	1399.5	YES	NO	bd	bd	50.264
OCDF	47.385	1.006	4.015e5	4.570e5	1.321	0.879	0.890	1649	1868	3.79e6	4.21e6	2301.9	YES	NO	bd	bd	99.869
2378-TCDD	26.631	1.001	6.971e4	8.725e4	1.244	0.799	0.770	1591	1560	9.85e5	1.23e6	619.1	YES	NO	bd	bd	9.771
12378-PeCDD	31.724	1.001	3.494e5	2.173e5	1.058	1.608	1.550	3055	2874	5.03e6	3.19e6	1647.7	YES	NO	bd	bd	50.422
123478-HxCDD	36.361	1.000	3.040e5	2.415e5	1.119	1.259	1.240	3517	1594	4.53e6	3.54e6	1287.8	YES	NO	bd	bd	47.279
123678-HxCDD	36.492	1.000	3.312e5	2.698e5	1.040	1.228	1.240	3517	1594	4.67e6	3.77e6	1329.1	YES	NO	db	dd	52.077
123789-HxCDD	36.920	1.012	2.953e5	2.347e5	0.981	1.258	1.240	3517	1594	4.07e6	3.28e6	1158.2	YES	NO	bd	bd	50.502
1234678-HpCDD	41.238	1.000	2.345e5	2.153e5	1.132	1.089	1.050	2042	1952	2.90e6	2.73e6	1420.3	YES	NO	bd	bd	47.522
OCDD	47.107	1.000	3.291e5	3.624e5	1.117	0.908	0.890	1282	1126	3.24e6	3.59e6	2563.8	YES	NO	bd	bd	95.124
13C-2378-TCDF	25.989	1.007	1.094e6	1.374e6	1.685	0.796	0.770	6514	3662	1.50e7	1.88e7	2300.7	YES	NO	bb	bb	98.327
13C-12378-PeCDF	30.113	1.167	1.232e6	7.778e5	1.706	1.584	1.550	3474	2747	1.75e7	1.08e7	5043.5	YES	NO	bd	bd	79.076
13C-23478-PeCDF	31.461	1.219	1.234e6	7.733e5	1.632	1.595	1.550	3474	2747	1.77e7	1.12e7	5108.9	YES	NO	bb	bb	82.531
13C-123478-HxCDF	35.122	0.952	5.018e5	9.579e5	1.682	0.524	0.510	3615	3043	7.32e6	1.39e7	2025.1	YES	NO	bd	bd	93.654
13C-123678-HxCDF	35.276	0.956	5.713e5	1.082e6	1.945	0.528	0.510	3615	3043	7.71e6	1.46e7	2131.6	YES	NO	dd	dd	91.701
13C-234678-HxCDF	36.218	0.981	4.604e5	8.790e5	1.582	0.524	0.510	3615	3043	6.46e6	1.23e7	1786.3	YES	NO	bb	bb	91.366
13C-123789-HxCDF	37.358	1.012	3.893e5	7.540e5	1.291	0.516	0.510	3615	3043	5.29e6	1.01e7	1464.6	YES	NO	bd	bd	95.598
13C-1234678-HpCDF	39.419	1.068	3.728e5	8.104e5	1.427	0.460	0.440	3031	3035	5.03e6	1.11e7	1657.9	YES	NO	bb	bb	89.516
13C-1234789-HpCDF	42.104	1.141	2.574e5	5.768e5	0.957	0.446	0.440	3031	3035	3.00e6	6.74e6	991.0	YES	NO	bd	bd	94.090
13C-1234-TCDD	25.809	0.000	6.537e5	8.364e5	1.000	0.782	0.770	2708	2235	9.73e6	1.23e7	3593.6	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.616	1.031	5.694e5	7.217e5	0.873	0.789	0.770	2708	2235	7.85e6	1.01e7	2897.3	YES	NO	bb	bb	99.280
13C-12378-PeCDD	31.702	1.228	6.519e5	4.103e5	0.860	1.589	1.550	1259	1185	9.26e6	5.82e6	7359.8	YES	NO	bb	bd	82.884
13C-123478-HxCDD	36.350	0.985	5.825e5	4.483e5	1.114	1.299	1.240	1701	1470	8.47e6	6.54e6	4978.7	YES	NO	bd	bd	99.893
13C-123678-HxCDD	36.481	0.988	6.304e5	4.790e5	1.258	1.316	1.240	1701	1470	8.63e6	6.78e6	5072.2	YES	NO	db	db	95.148
13C-1234678-HpCDD	41.216	1.117	4.406e5	3.956e5	0.924	1.114	1.050	2205	1638	5.38e6	5.04e6	2440.6	YES	NO	bd	bd	97.706
13C-OCDD	47.089	1.276	6.101e5	6.916e5	0.738	0.882	0.890	2345	1957	5.78e6	6.50e6	2466.2	YES	NO	bd	bd	190.277

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
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 Printed: Tuesday, May 23, 2017 10:33:47 Pacific Daylight Time

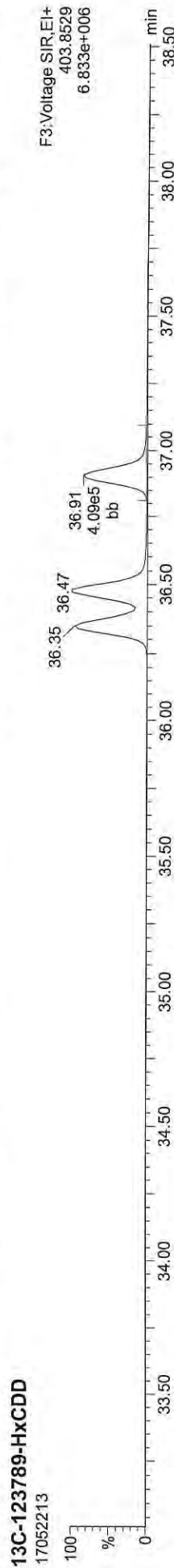
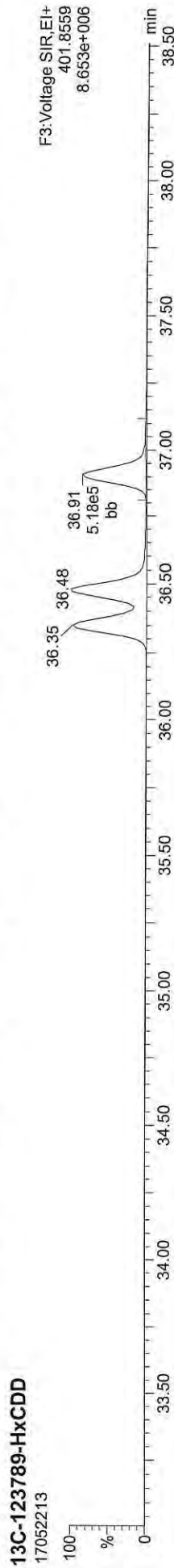
ID: CS3B2, Name: 17052213, Date: 22-May-2017, Time: 20:03:43, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
13C-123789-HxCDD	36.909	0.000	5.178e5	4.088e5	1.000	1.267	1.240	1701	1470	7.27e6	5.70e6	4272.1	YES	NO	bb	bb	100.000
Total-tetrafurans			3.646e5	1.018				1219		4.99e6							33.152
Total-penta1			7.305e5					659		1.05e7							65.473
Total-pentafurans			1.866e6	0.998				4062		2.64e7							153.925
Total-hexafurans			2.266e6	1.138				3224		3.21e7							259.878
Total-heptafurans			6.222e5	1.248				2207		8.15e6							99.202
Total-Furans			6.251e6	1.138				1219		8.58e7							711.499
Total-tetra-dioxins			3.804e5	1.244				1591		4.84e6							53.610
Total-pentadioxins			1.407e6	1.058				3055		1.70e7							203.937
Total-hexadioxins			1.294e6	1.047				3517		1.85e7							208.042
Total-heptadioxins			5.123e5	1.132				2042		6.56e6							104.342
Total-Dioxins			3.923e6	1.099				1591		5.01e7							665.070
Total-TEQ			1.017e7					1591		1.36e8							1376.569
37CL-2378-TCDD	26.631	1.032	1.553e5	1.021				1724		2.19e6		1267.3	YES		bb		10.203
FUNCTION1 PFK			2.827e6					949566		4.39e7							0.000
FUNCTION2 PFK			1.607e5					133350		5.09e6							0.000
FUNCTION3 PFK			1.007e6					921923		2.57e7							0.000
FUNCTION4 PFK			1.243e6					498912		2.91e7							
FUNCTION5 PFK			1.753e5					307039		7.88e6							
FUNCTION1 HXCDPE			9.176e1					343		2.11e3							0.000
FUNCTION1 HPCDPE			2.469e2					717		5.42e3							0.000
FUNCTION2 HPCDPE			4.787e2					610		7.15e3							0.000
FUNCTION3 OCDPE			0.000e0					262		0.00e0							
FUNCTION4 NCDPE			0.000e0					379		0.00e0							
FUNCTION5 DCDPE			0.000e0					345		0.00e0							

Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 10:33:47 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42
Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518CIH.cdb 19 May 2017 13:57:26

ID: CS3B2, Name: 17052213, Date: 22-May-2017, Time: 20:03:43, Conditions: AUTOSPEC01, User: PK



Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
 Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 10:33:47 Pacific Daylight Time

ID: CS3B2, Name: 17052213, Date: 22-May-2017, Time: 20:03:43, Conditions: AUTOSPEC01, User: PK

13C-2378-TCDD



13C-2378-TCDD



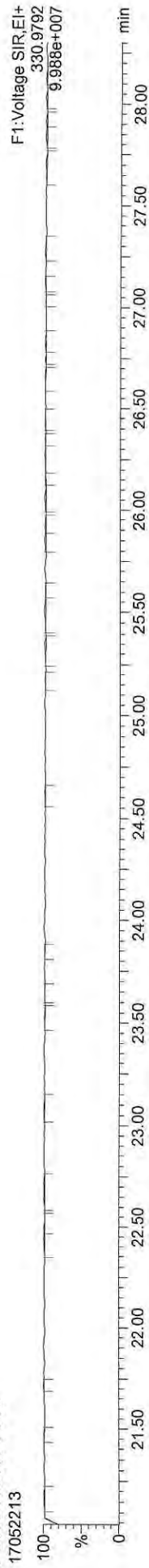
Total-tetradioxins



Total-tetradioxins



FUNCTION1 PFK



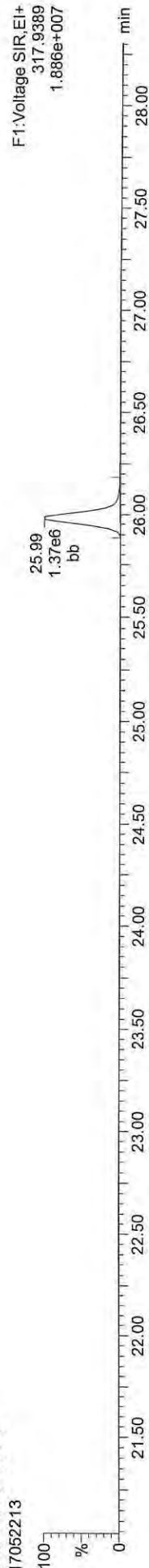
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MassLynx MassLynx V4.1 SCN909
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Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 10:33:47 Pacific Daylight Time

ID: CS3B2, Name: 17052213, Date: 22-May-2017, Time: 20:03:43, Conditions: AUTOSPEC01, User: PK

13C-2378-TCDF



13C-2378-TCDF



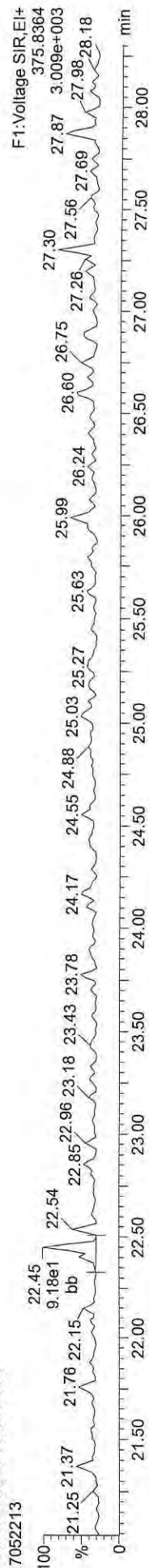
Total-tetrafurans



Total-tetrafurans



FUNCTION1 HXCDPE

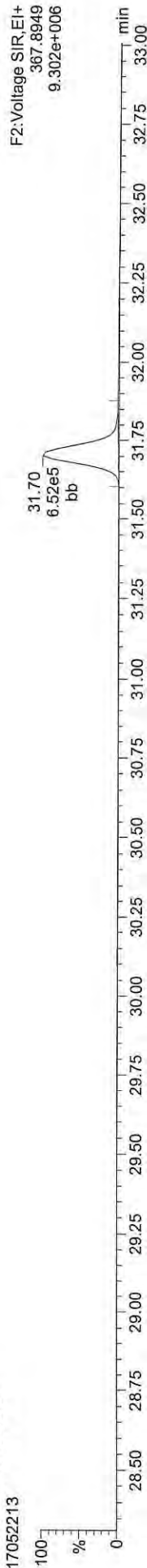


Quantify Sample Report
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Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 10:33:47 Pacific Daylight Time

ID: CS3B2, Name: 17052213, Date: 22-May-2017, Time: 20:03:43, Conditions: AUTOSPEC01, User: PK

13C-12378-PeCDD

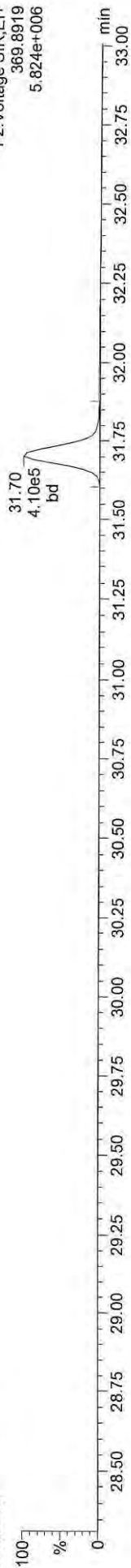
17052213



F2: Voltage SIR, EI+
367.8949
9.302e+006

13C-12378-PeCDD

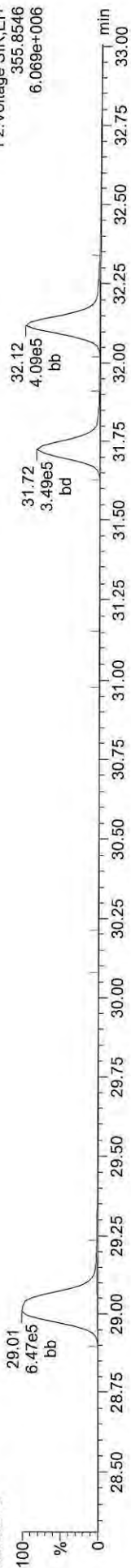
17052213



F2: Voltage SIR, EI+
369.8919
5.824e+006

Total-pentadioxins

17052213



F2: Voltage SIR, EI+
355.8546
6.069e+006

Total-pentadioxins

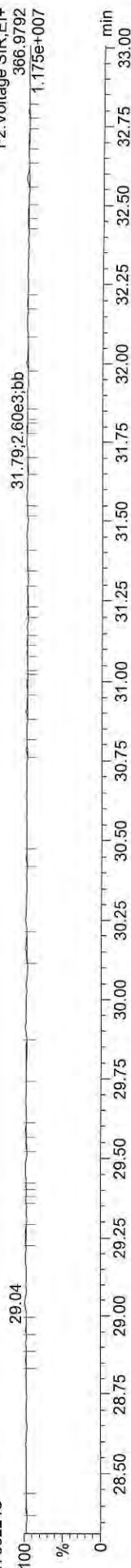
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F2: Voltage SIR, EI+
357.8516
3.804e+006

FUNCTION2 PFK

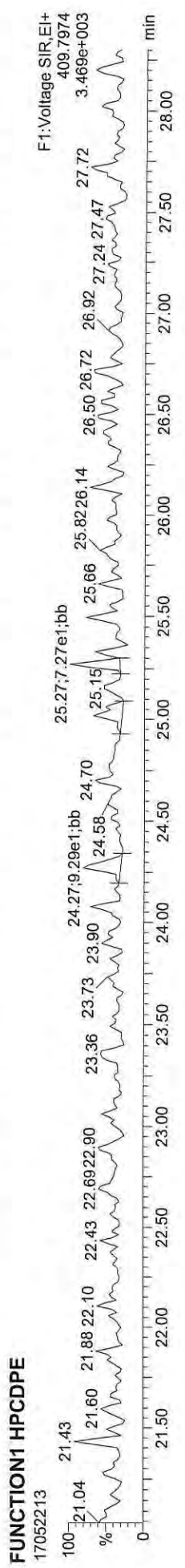
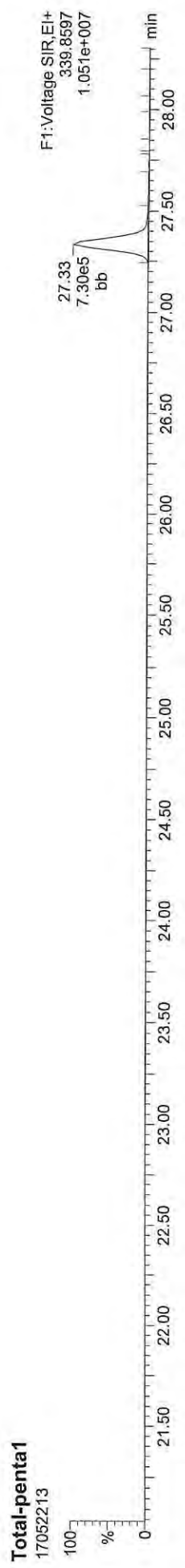
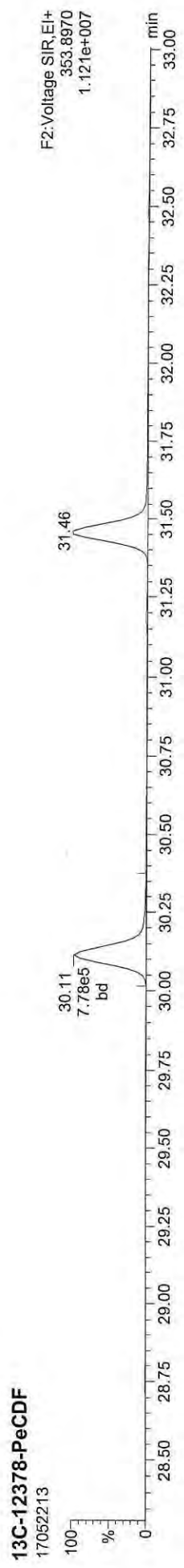
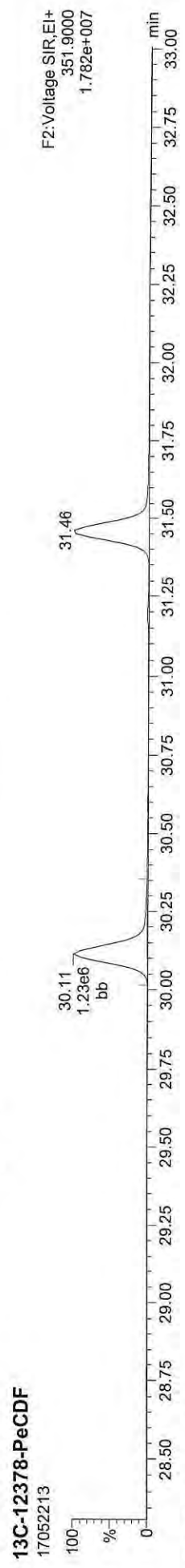
17052213



F2: Voltage SIR, EI+
366.9792
1.175e+007

Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 10:33:47 Pacific Daylight Time

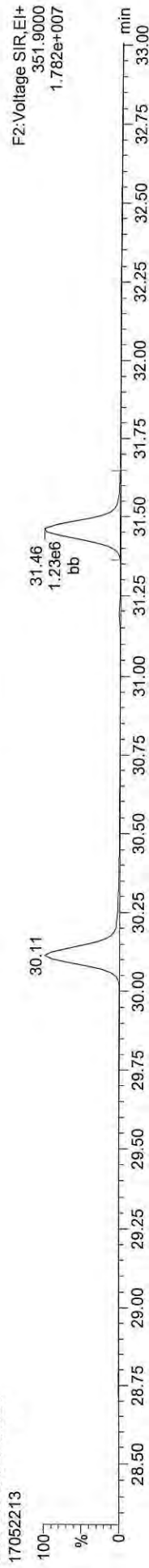
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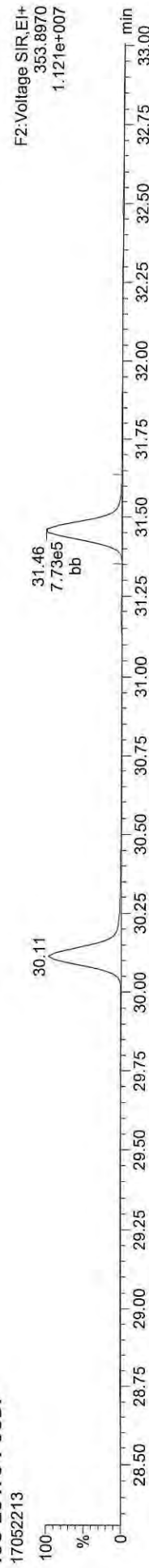
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 10:33:47 Pacific Daylight Time

ID: CS3B2, Name: 17052213, Date: 22-May-2017, Time: 20:03:43, Conditions: AUTOSPEC01, User: PK

13C-23478-PeCDF



13C-23478-PeCDF



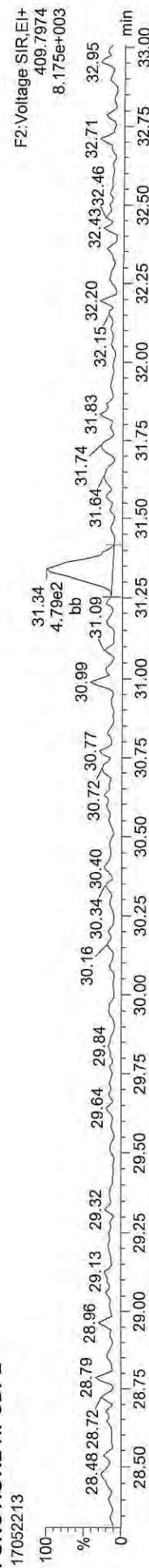
Total-pentafulurans



Total-pentafulurans



FUNCTION2 HPCDPE



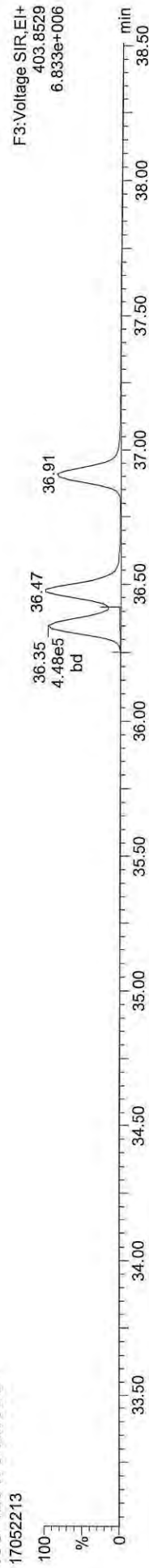
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 10:33:47 Pacific Daylight Time

ID: CS3B2, Name: 17052213, Date: 22-May-2017, Time: 20:03:43, Conditions: AUTOSPEC01, User: PK

13C-123478-HxCDD



13C-123478-HxCDD



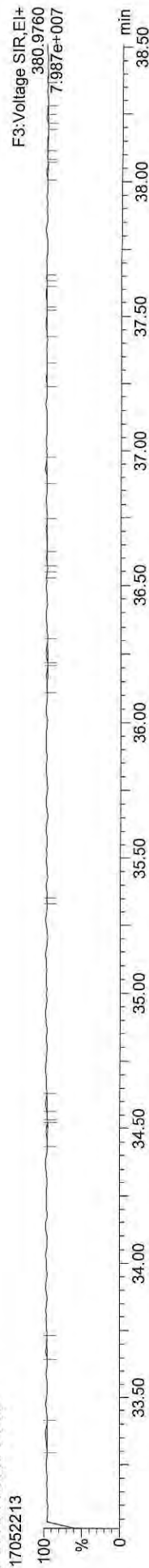
Total-hexadioxins



Total-hexadioxins



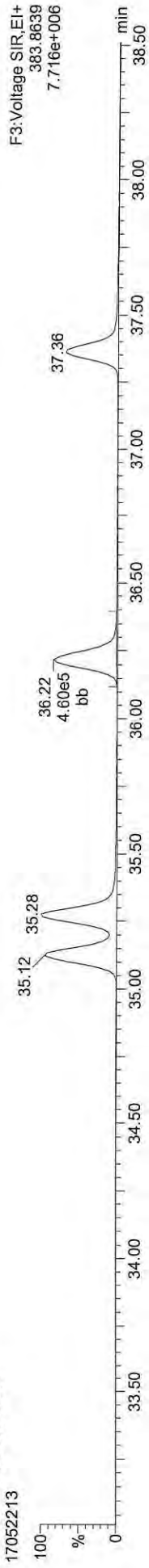
FUNCTION3 PFK



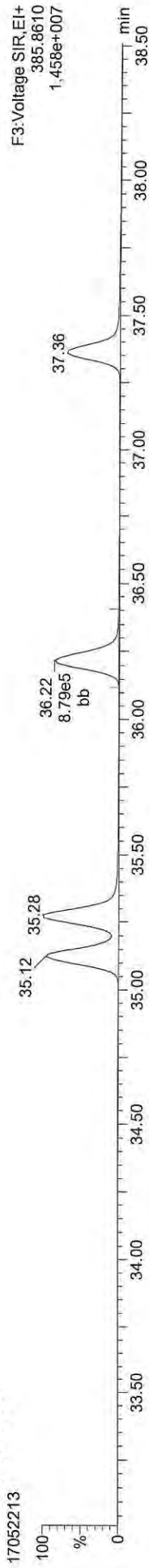
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Diocin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 10:33:47 Pacific Daylight Time

ID: CS3B2, Name: 17052213, Date: 22-May-2017, Time: 20:03:43, Conditions: AUTOSPEC01, User: PK

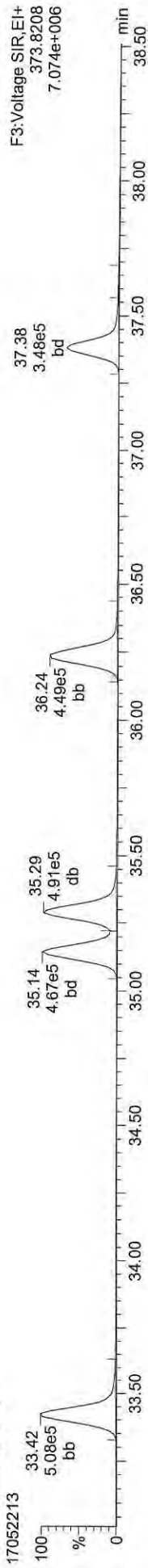
13C-234678-HxCDF



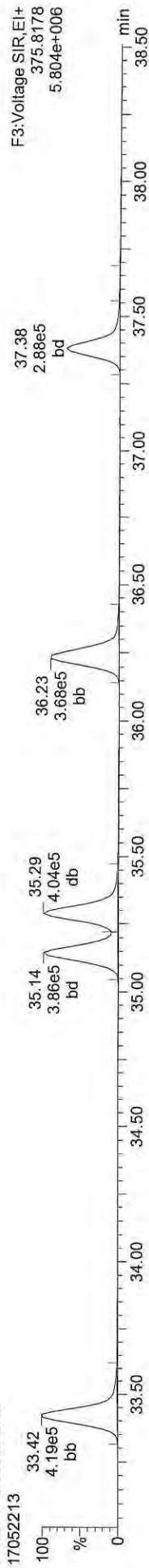
13C-234678-HxCDF



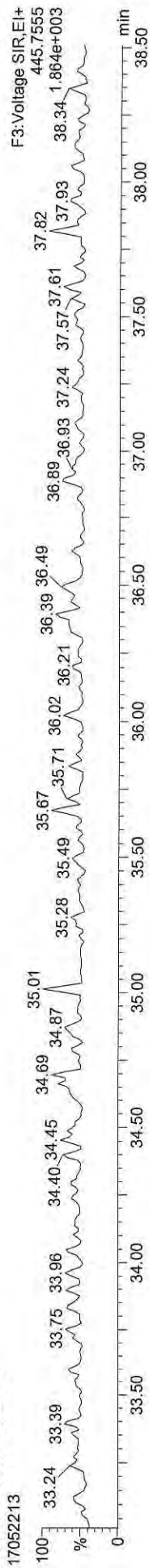
Total-hexafurans



Total-hexafurans



FUNCTION3 OCDPE



Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 10:33:47 Pacific Daylight Time

ID: CS3B2, Name: 17052213, Date: 22-May-2017, Time: 20:03:43, Conditions: AUTOSPEC01, User: PK

13C-1234678-HpCDD



13C-1234678-HpCDD



Total-heptadioxins



Total-heptadioxins



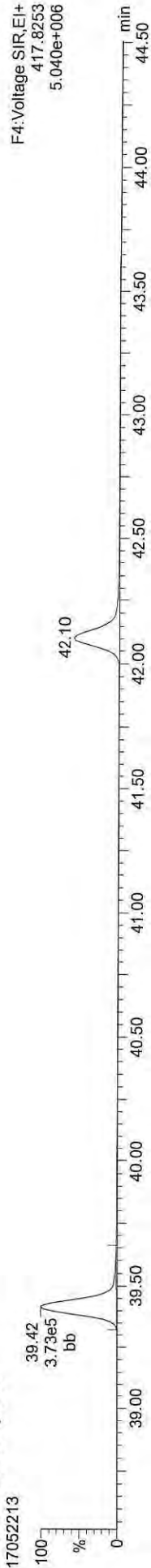
FUNCTION4 PFK



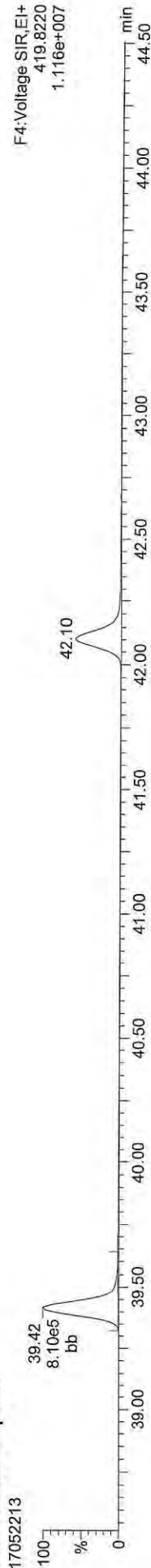
Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\1Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 10:33:47 Pacific Daylight Time

ID: CS3B2, Name: 17052213, Date: 22-May-2017, Time: 20:03:43, Conditions: AUTOSPEC01, User: PK

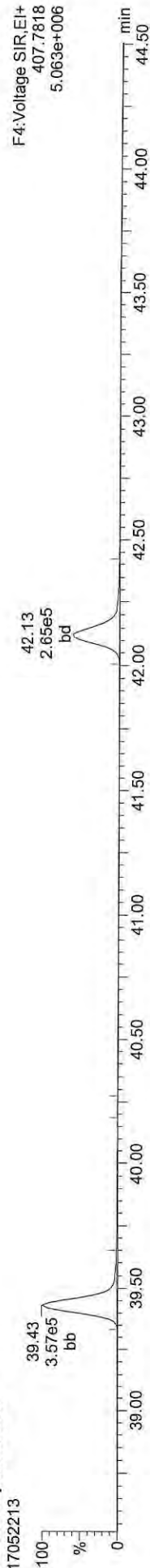
13C-1234678-HpCDF



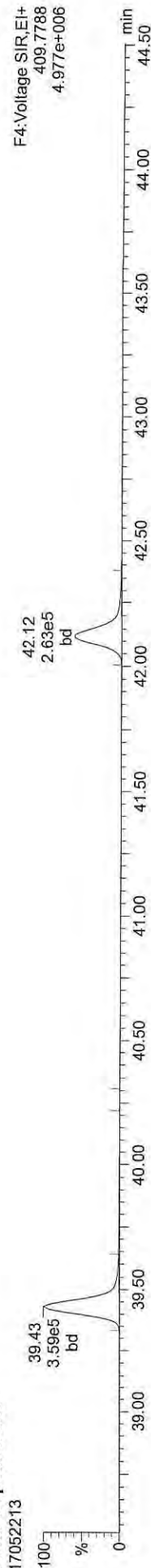
13C-1234678-HpCDF



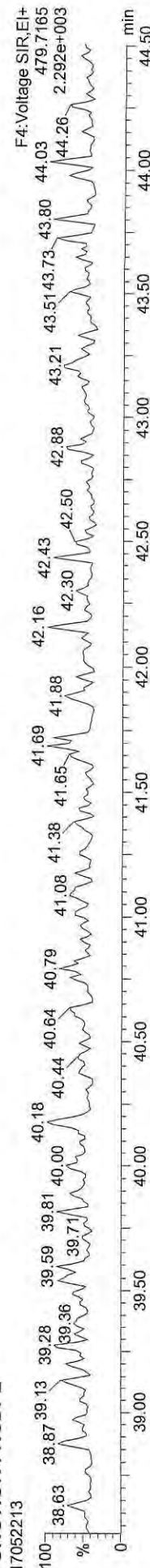
Total-heptafurans



Total-heptafurans



FUNCTION4 NCDPE

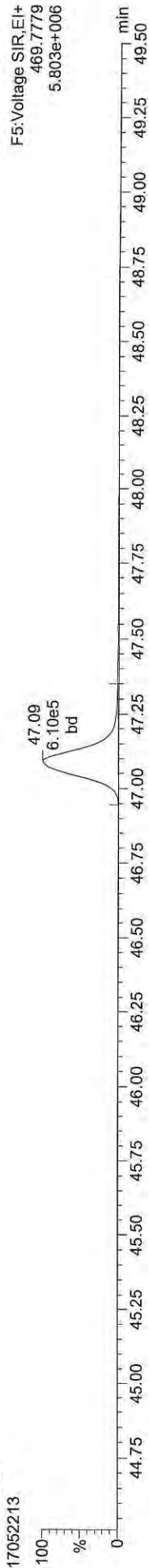


Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 10:33:47 Pacific Daylight Time

ID: CS3B2, Name: 17052213, Date: 22-May-2017, Time: 20:03:43, Conditions: AUTOSPEC01, User: PK

13C-OCDD

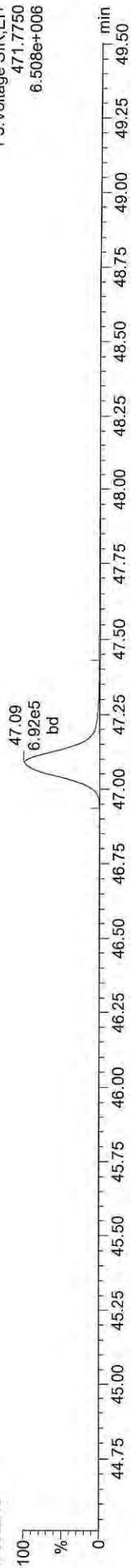
17052213



F5: Voltage SIR, EI+
469.7779
5.803e+006

13C-OCDD

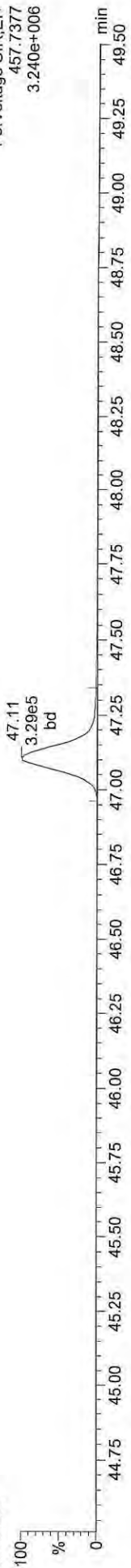
17052213



F5: Voltage SIR, EI+
471.7750
6.508e+006

OCDD

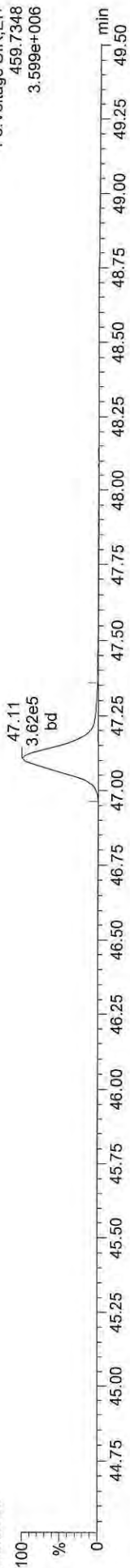
17052213



F5: Voltage SIR, EI+
457.7377
3.240e+006

OCDD

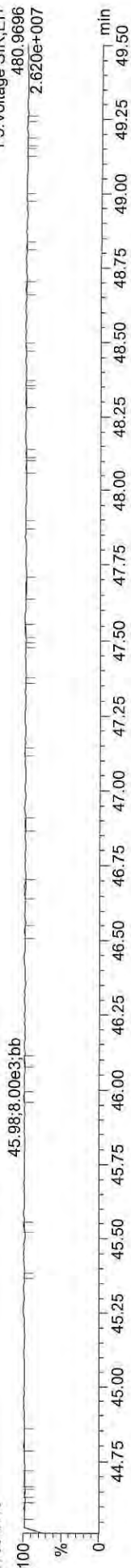
17052213



F5: Voltage SIR, EI+
459.7348
3.599e+006

FUNCTION5 PFK

17052213



F5: Voltage SIR, EI+
480.9696
2.620e+007

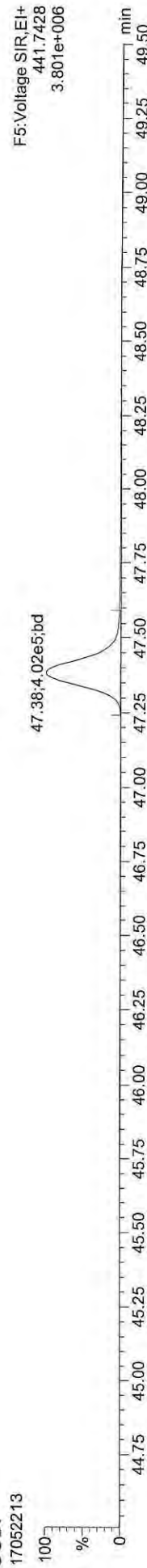
Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 10:33:47 Pacific Daylight Time

ID: CS3B2, Name: 17052213, Date: 22-May-2017, Time: 20:03:43, Conditions: AUTOSPEC01, User: PK

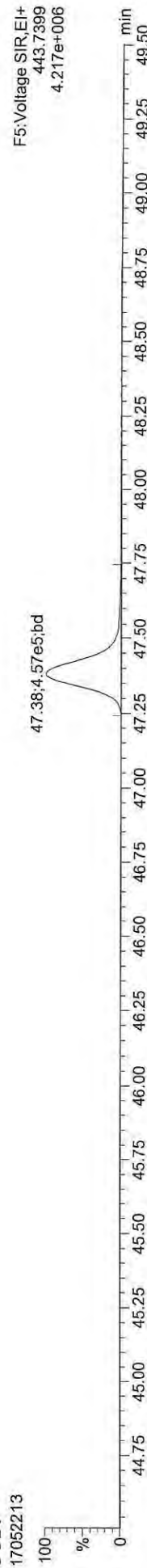
37CL-2378-TCDD



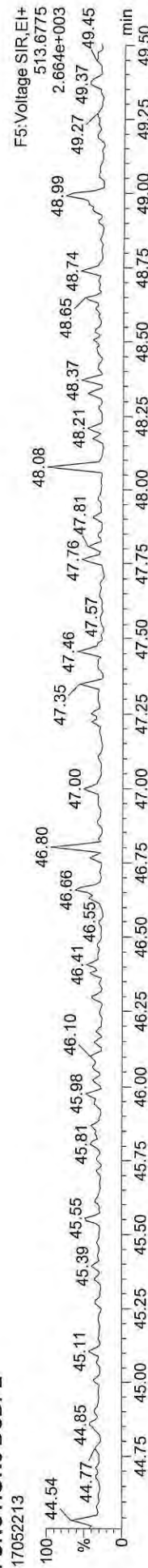
OCDF



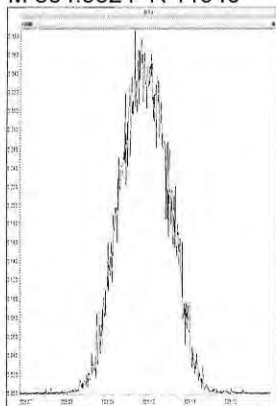
OCDF



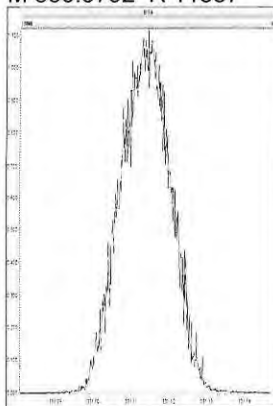
FUNCTION5 DCDPE



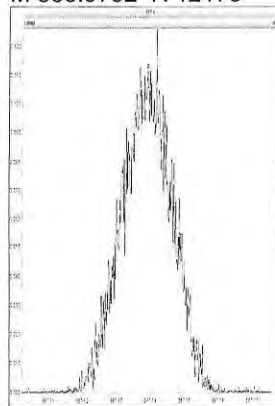
M 304.9824 R 11940



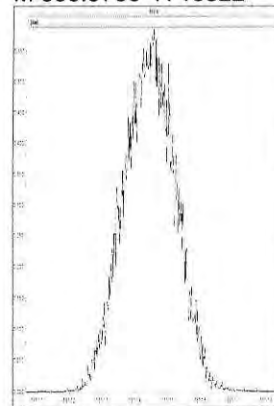
M 330.9792 R 11337



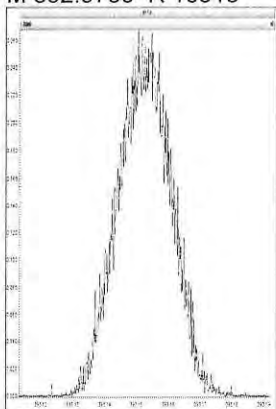
M 366.9792 R 12170



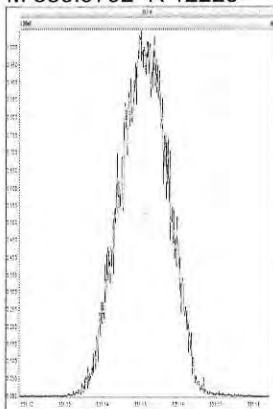
M 380.9760 R 10822



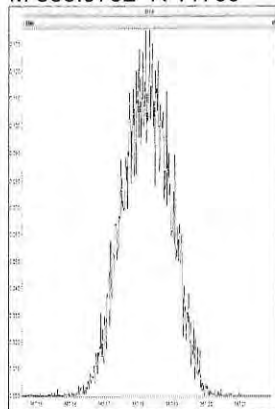
M 392.9760 R 10916



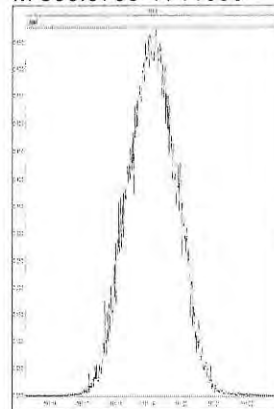
M 330.9792 R 12228



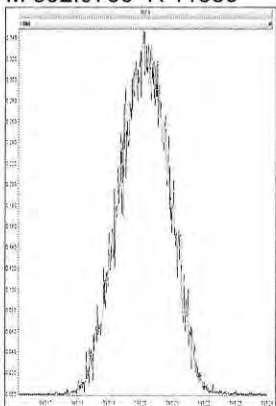
M 366.9792 R 11709



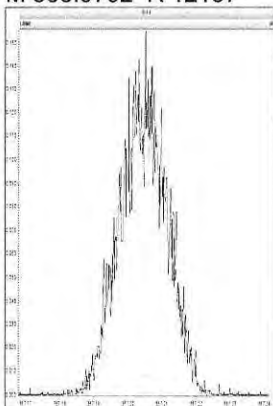
M 380.9760 R 11390



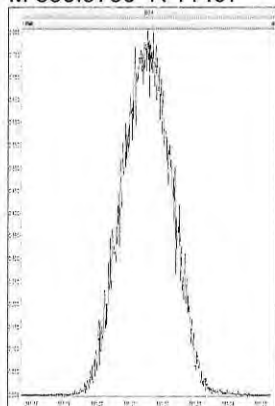
M 392.9760 R 11550



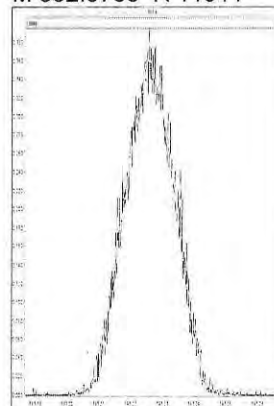
M 366.9792 R 12107



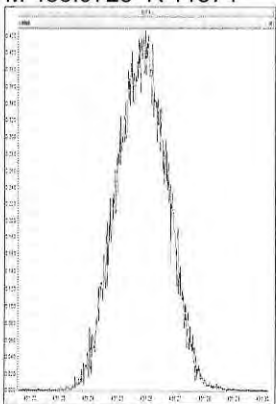
M 380.9760 R 11497



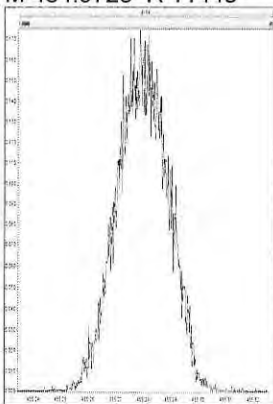
M 392.9760 R 11911



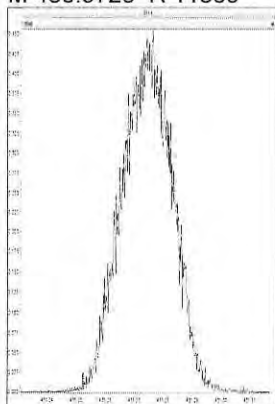
M 430.9728 R 11574



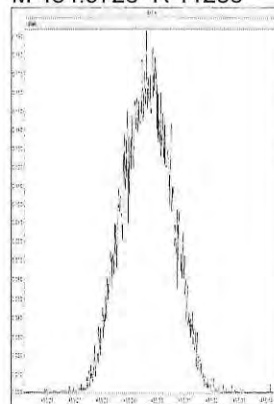
M 454.9728 R 11443



M 430.9728 R 11389

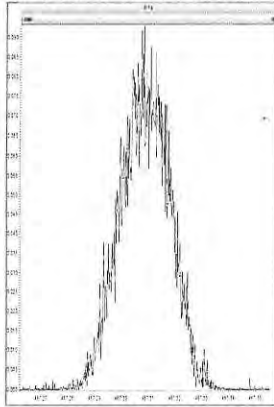


M 454.9728 R 11286

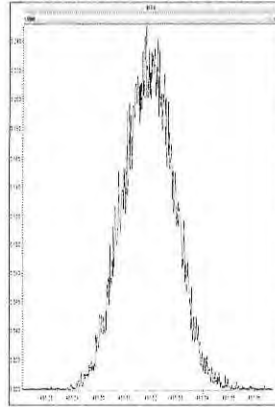


Printed: Monday, May 22, 2017 21:01:51 Pacific Daylight Time

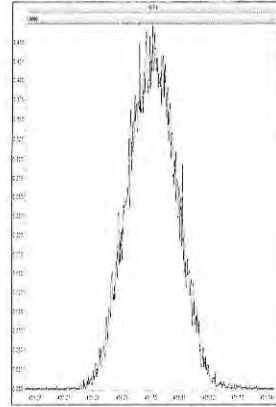
M 466.9728 R 11849



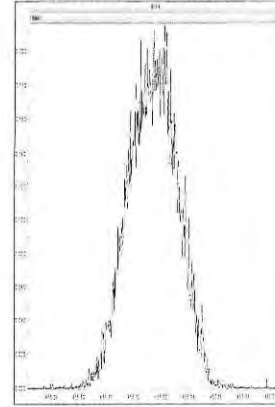
M 480.9696 R 10894



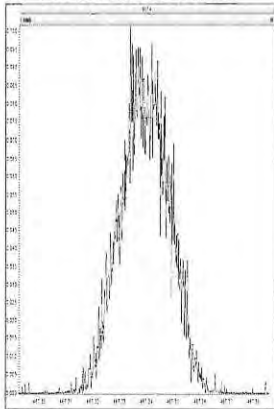
M 430.9728 R 11603



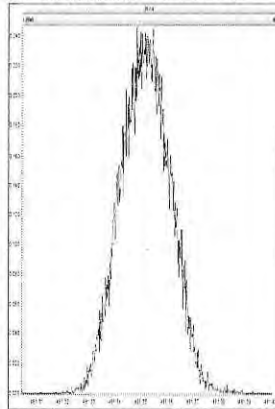
M 454.9728 R 11792



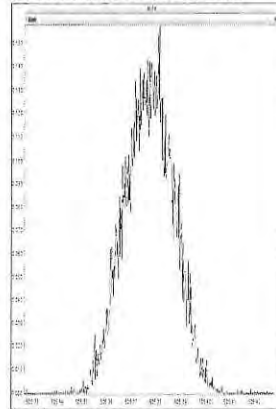
M 466.9728 R 12594



M 480.9696 R 11796

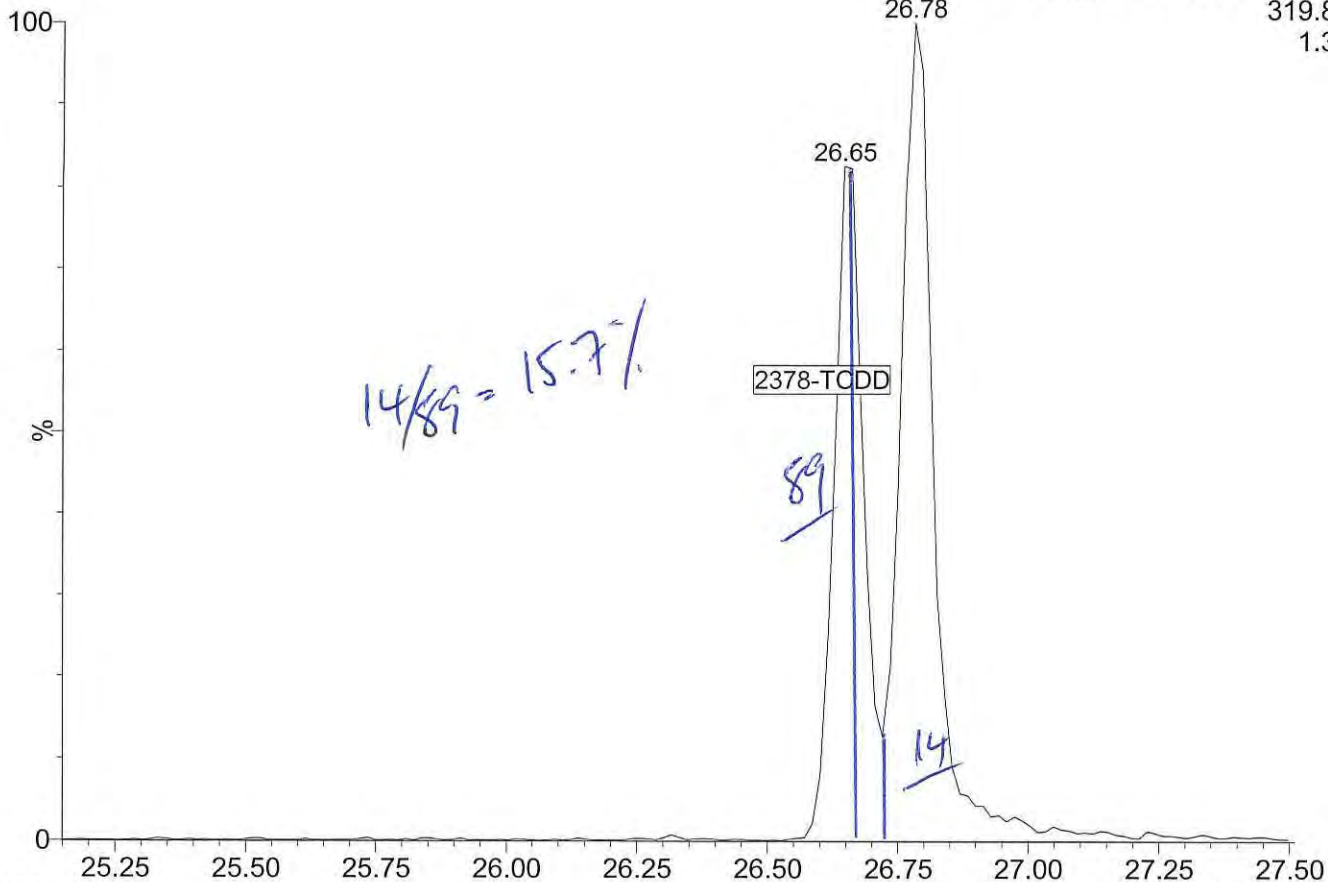


M 504.9696 R 11363



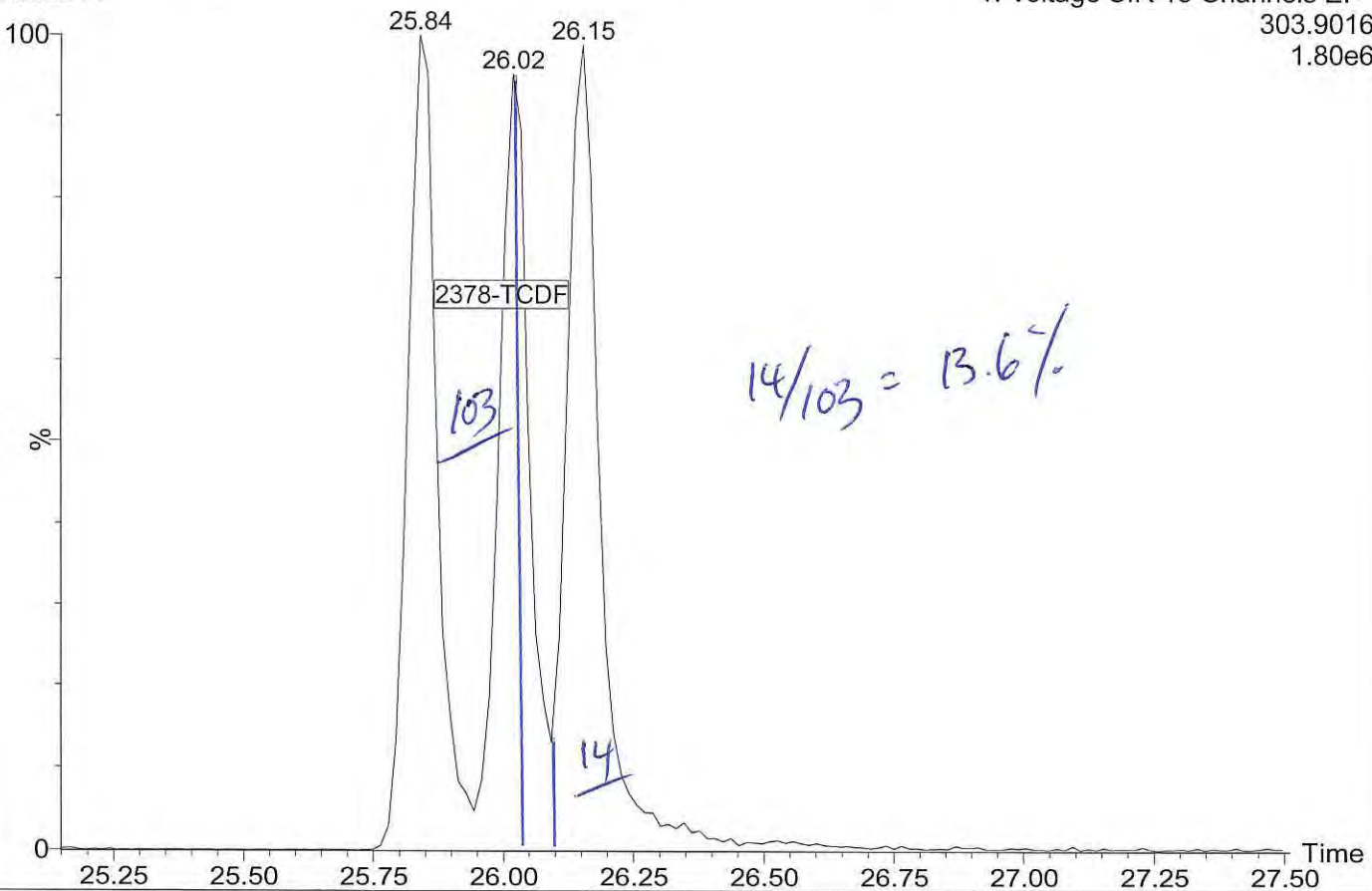
17052214

1: Voltage SIR 15 Channels EI+
319.8965
1.35e6



17052214

1: Voltage SIR 15 Channels EI+
303.9016
1.80e6





CONTINUING CALIBRATION CHECK EPA 1613B

Laboratory: <u>Analytical Resources, Inc.</u>	SDG: <u>17E0012</u>
Client: <u>Anchor QEA, LLC</u>	Project: <u>Port Gamble Shellfish Monitoring</u>
Instrument ID: <u>AUTOSPEC01</u>	Calibration: <u>AE00055</u>
Lab File ID: <u>17052224</u>	Calibration Date: <u>05/18/17 14:31</u>
Sequence: <u>SFE0219</u>	Injection Date: <u>05/23/17</u>
Lab Sample ID: <u>SFE0219-CCV2</u>	Injection Time: <u>06:01</u>
Sequence Name: <u>CS303</u>	

COMPOUND	TYPE	CONC. (ng/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
		STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2,3,7,8-TCDF	A	10.000	9.44	1.0132980	0.9614571		-5.6	16
2,3,7,8-TCDD	A	10.000	9.70	1.1755440	1.2069670		-3.0	22
1,2,3,7,8-PeCDF	A	50.000	47.6	0.9765664	0.9300157		-4.8	18
2,3,4,7,8-PeCDF	A	50.000	50.1	1.0192640	1.0211930		0.2	18
1,2,3,7,8-PeCDD	A	50.000	50.3	1.0582470	1.0653540		0.7	22
1,2,3,4,7,8-HxCDF	A	50.000	51.5	1.1500860	1.1853760		3.1	10
1,2,3,6,7,8-HxCDF	A	50.000	51.2	1.0997540	1.1259230		2.4	12
2,3,4,6,7,8-HxCDF	A	50.000	51.0	1.1878740	1.2114250		2.0	12
1,2,3,7,8,9-HxCDF	A	50.000	51.0	1.1160500	1.1392890		2.1	10
1,2,3,4,7,8-HxCDD	A	50.000	47.0	1.1192500	1.0513930		-6.1	22
1,2,3,6,7,8-HxCDD	A	50.000	50.9	1.0402190	1.0595940		1.9	22
1,2,3,7,8,9-HxCDD	A	50.000	49.5	0.9806210	0.9702677		-1.1	18
1,2,3,4,6,7,8-HpCDF	A	50.000	48.4	1.2380230	1.1972980		-3.3	10
1,2,3,4,7,8,9-HpCDF	A	50.000	49.5	1.2573640	1.2446620		-1.0	14
1,2,3,4,6,7,8-HpCDD	A	50.000	47.3	1.1319240	1.0713290		-5.4	14
OCDF	A	100.00	99.2	1.3207770	1.3099840		-0.8	37
OCDD	A	100.00	95.8	1.1168160	1.0696240		-4.2	21
13C12-2,3,7,8-TCDF	A	100.00	100	1.6846640	1.6891252		0.3	29
13C12-2,3,7,8-TCDD	A	100.00	101	0.8727236	0.8787748		0.7	18
13C12-1,2,3,7,8-PeCDF	A	100.00	83.5	1.7056380	1.4247866		-16.5	24
13C12-2,3,4,7,8-PeCDF	A	100.00	86.8	1.6318430	1.4172141		-13.2	23
13C12-1,2,3,7,8-PeCDD	A	100.00	86.1	0.8600295	0.7408616		-13.9	38
13C12-1,2,3,4,7,8-HxCDF	A	100.00	91.0	1.6821870	1.5308766		-9.0	24
13C12-1,2,3,6,7,8-HxCDF	A	100.00	87.0	1.9454000	1.6931306		-13.0	30
13C12-2,3,4,6,7,8-HxCDF	A	100.00	91.0	1.5821140	1.4401558		-9.0	27
13C12-1,2,3,7,8,9-HxCDF	A	100.00	92.6	1.2907090	1.1958235		-7.4	26
13C12-1,2,3,4,7,8-HxCDD	A	100.00	99.8	1.1136440	1.1114813		-0.2	15
13C12-1,2,3,6,7,8-HxCDD	A	100.00	93.7	1.2584900	1.1794639		-6.3	15
13C12-1,2,3,4,6,7,8-HpCDF	A	100.00	89.1	1.4265280	1.2712771		-10.9	22
13C12-1,2,3,4,7,8,9-HpCDF	A	100.00	95.1	0.9569095	0.9104080		-4.9	23
13C12-1,2,3,4,6,7,8-HpCDD	A	100.00	97.0	0.9236238	0.8962085		-3.0	18
13C12-OCDD	A	200.00	187	0.7383514	0.6914866		-6.3	52
37C14-2,3,7,8-TCDD	A	10.000	10.5	1.0211920	1.0674342		4.5	

* Values outside of QC limits

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld

Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time

Printed: Tuesday, May 23, 2017 11:29:51 Pacific Daylight Time

Method: C:\MassLynx\Dioxin.pro\MethDB\Dioxin170518.mdb 18 May 2017 15:01:42

Calibration: C:\MassLynx\Dioxin.pro\CurveDB\170518\CIH.cdb 19 May 2017 13:57:26

ID: CS3B3, Name: 17052224, Date: 23-May-2017, Time: 06:01:57, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
2378-TCDF	25.988	1.001	1.062e5	1.406e5	1.018	0.755	0.770	2160	1938	1.56e6	2.04e6	721.2	YES	NO	bb	bb	9.441
12378-PeCDF	30.124	1.001	6.065e5	4.905e5	0.977	1.515	1.550	3310	9236	8.65e6	5.68e6	2612.7	YES	NO	bd	bd	47.617
23478-PeCDF	31.461	1.000	6.581e5	4.418e5	1.019	1.490	1.550	3310	9236	9.73e6	6.49e6	2938.2	YES	NO	bb	dd	50.095
123478-HxCDF	35.133	1.001	5.099e5	4.195e5	1.150	1.215	1.240	3107	3280	7.37e6	6.07e6	2371.9	YES	NO	bd	bd	51.534
234678-HxCDF	36.229	1.001	4.909e5	4.026e5	1.188	1.219	1.240	3107	3280	7.07e6	5.74e6	2275.0	YES	NO	bb	bb	50.991
123678-HxCDF	35.276	1.000	5.322e5	4.442e5	1.100	1.198	1.240	3107	3280	7.60e6	6.27e6	2445.5	YES	NO	db	dd	51.190
123789-HxCDF	37.369	1.001	3.818e5	3.160e5	1.116	1.208	1.240	3107	3280	5.45e6	4.44e6	1753.9	YES	NO	bb	bd	51.041
1234678-HpCDF	39.419	1.000	3.891e5	3.905e5	1.238	0.997	1.050	2487	2967	5.58e6	5.41e6	2244.7	YES	NO	bb	bb	48.355
1234789-HpCDF	42.104	1.000	2.920e5	2.884e5	1.257	1.013	1.050	2487	2967	3.43e6	3.41e6	1377.6	YES	NO	bd	bd	49.495
OCDF	47.367	1.006	4.319e5	4.960e5	1.321	0.871	0.890	1279	1651	4.25e6	4.77e6	3320.5	YES	NO	bd	bd	99.183
2378-TCDD	26.616	1.001	7.039e4	9.083e4	1.244	0.775	0.770	1203	1684	9.65e5	1.24e6	802.3	YES	NO	bd	bb	9.701
12378-PeCDD	31.713	1.001	3.681e5	2.318e5	1.058	1.588	1.550	3731	1642	5.44e6	3.45e6	1457.0	YES	NO	bb	bd	50.336
123478-HxCDD	36.349	1.000	3.322e5	2.664e5	1.119	1.247	1.240	2676	2035	5.01e6	4.01e6	1872.4	YES	NO	bd	bd	46.969
123678-HxCDD	36.481	1.001	3.552e5	2.849e5	1.040	1.247	1.240	2676	2035	5.16e6	4.04e6	1926.9	YES	NO	db	db	50.931
123789-HxCDD	36.909	1.012	3.146e5	2.546e5	0.981	1.235	1.240	2676	2035	4.65e6	3.73e6	1736.4	YES	NO	bb	bd	49.472
1234678-HpCDD	41.227	1.000	2.515e5	2.403e5	1.132	1.046	1.050	1947	1825	3.22e6	3.10e6	1654.8	YES	NO	bd	bd	47.323
OCDD	47.089	1.000	3.589e5	3.988e5	1.117	0.900	0.890	2551	1649	3.60e6	4.06e6	1409.9	YES	NO	bd	bd	95.774
13C-2378-TCDF	25.973	1.007	1.135e6	1.432e6	1.685	0.793	0.770	4147	2171	1.61e7	2.01e7	3888.4	YES	NO	bb	bb	100.265
13C-12378-PeCDF	30.102	1.167	1.316e6	8.498e5	1.706	1.548	1.550	3975	2701	1.90e7	1.21e7	4783.3	YES	NO	bb	bd	83.534
13C-23478-PeCDF	31.450	1.219	1.334e6	8.203e5	1.632	1.626	1.550	3975	2701	1.91e7	1.18e7	4809.9	YES	NO	bb	bb	86.847
13C-123478-HxCDF	35.111	0.952	5.386e5	1.030e6	1.682	0.523	0.510	3120	4504	7.97e6	1.52e7	2554.7	YES	NO	bd	bd	91.005
13C-123678-HxCDF	35.264	0.956	6.036e5	1.131e6	1.945	0.534	0.510	3120	4504	8.46e6	1.61e7	2710.3	YES	NO	dd	db	87.033
13C-234678-HxCDF	36.207	0.981	5.067e5	9.685e5	1.582	0.523	0.510	3120	4504	7.56e6	1.44e7	2421.3	YES	NO	bb	bb	91.027
13C-123789-HxCDF	37.347	1.012	4.206e5	8.043e5	1.291	0.523	0.510	3120	4504	6.06e6	1.17e7	1942.2	YES	NO	bb	bb	92.649
13C-1234678-HpCDF	39.408	1.068	4.133e5	8.889e5	1.427	0.465	0.440	1867	2692	5.60e6	1.22e7	2997.1	YES	NO	bd	bb	89.117
13C-1234789-HpCDF	42.093	1.141	2.885e5	6.441e5	0.957	0.448	0.440	1867	2692	3.45e6	7.69e6	1846.6	YES	NO	bb	bd	95.140
13C-1234-TCDD	25.794	0.000	6.568e5	8.631e5	1.000	0.761	0.770	1411	1753	9.79e6	1.28e7	6939.2	YES	NO	bb	bb	100.000
13C-2378-TCDD	26.601	1.031	5.861e5	7.496e5	0.873	0.782	0.770	1411	1753	8.33e6	1.06e7	5899.6	YES	NO	bb	bb	100.693
13C-12378-PeCDD	31.691	1.229	6.993e5	4.268e5	0.860	1.638	1.550	1437	1580	1.03e7	6.33e6	7150.9	YES	NO	bb	bb	86.144
13C-123478-HxCDD	36.339	0.985	6.429e5	4.956e5	1.114	1.297	1.240	1781	1651	9.63e6	7.47e6	5407.0	YES	NO	bd	bd	99.806
13C-123678-HxCDD	36.459	0.988	6.851e5	5.231e5	1.258	1.310	1.240	1781	1651	9.75e6	7.53e6	5473.3	YES	NO	db	db	93.720
13C-1234678-HpCDD	41.205	1.117	4.647e5	4.533e5	0.924	1.025	1.050	2216	2198	6.08e6	5.78e6	2745.6	YES	NO	bb	bd	97.032
13C-OCDD	47.070	1.276	6.688e5	7.478e5	0.738	0.894	0.890	1721	1383	6.70e6	7.29e6	3892.6	YES	NO	bb	bd	187.306

Quantify Sample Summary Report MassLynx MassLynx V4.1 SCN909

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 11:29:51 Pacific Daylight Time

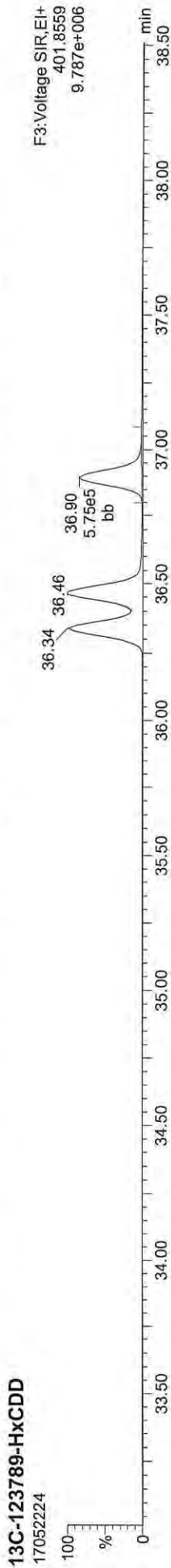
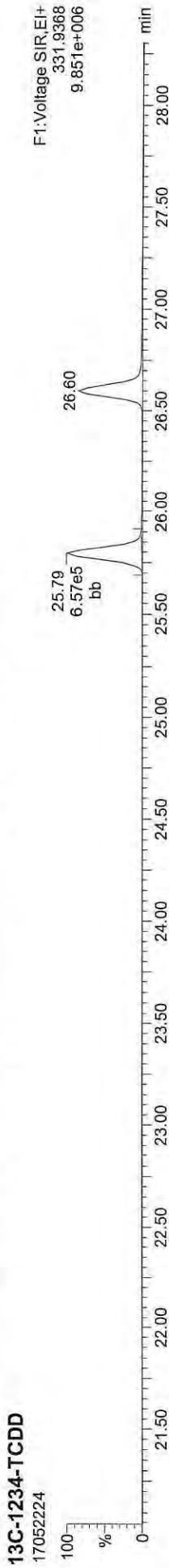
ID: CS3B3, Name: 17052224, Date: 23-May-2017, Time: 06:01:57, Conditions: AUTOSPEC01, User: PK

Compound	RT	RRT	Ion1Area	Ion2Area	RRF	Ratio	Pred R	Noise 1	Noise 2	Height 1	Height 2	S/N 1	SNFlag	EMPC	Int.1	Int.2	pg
13C-123789-HxCDD	36.897	0.000	5.747e5	4.496e5	1.000	1.278	1.240	1781	1651	8.11e6	6.34e6	4550.7	YES	NO	bb	bb	100.000
Total-tetrafurans			3.656e5		1.018			2160		5.08e6							32.452
Total-penta 1			7.736e5					997		1.06e7							63.832
Total-pentafurans			1.973e6		0.998			3310		2.82e7							151.357
Total-hexafurans			2.457e6		1.138			3107		3.50e7							262.714
Total-heptafurans			6.844e5		1.248			2487		9.07e6							98.273
Total-Furans			6.686e6		1.138			2160		9.21e7							707.832
Total-tetra-dioxins			3.887e5		1.244			1203		4.98e6							53.118
Total-penta-dioxins			1.482e6		1.058			3731		1.80e7							202.346
Total-hexa-dioxins			1.379e6		1.047			2676		2.02e7							202.287
Total-hepta-dioxins			5.514e5		1.132			1947		7.37e6							103.629
Total-Dioxins			4.161e6		1.099			1203		5.42e7							657.220
Total-TEQ			1.085e7					1203		1.46e8							1365.052
37CL-2378-TCDD	26.616	1.032	1.622e5		1.021			1025		2.26e6		2209.0	YES		bb		10.453
FUNCTION1 PFK			1.789e6					398655		2.71e7							
FUNCTION2 PFK			5.030e4					95230		1.34e6							0.000
FUNCTION3 PFK			1.220e6					445620		2.90e7							0.000
FUNCTION4 PFK			5.206e5					270134		1.36e7							
FUNCTION5 PFK			5.613e3					161178		2.87e5							
FUNCTION1 HXCDPE			2.139e2					464		2.01e3							0.000
FUNCTION1 HPCDPE			0.000e0					506		0.00e0							
FUNCTION2 HPCDPE			3.259e2					603		5.03e3							0.000
FUNCTION3 OGDPE			3.402e2					767		2.18e3							0.000
FUNCTION4 NCDPE			9.273e1					897		1.91e3							0.000
FUNCTION5 DCDPE			0.000e0					729		0.00e0							0.000

Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 11:29:51 Pacific Daylight Time

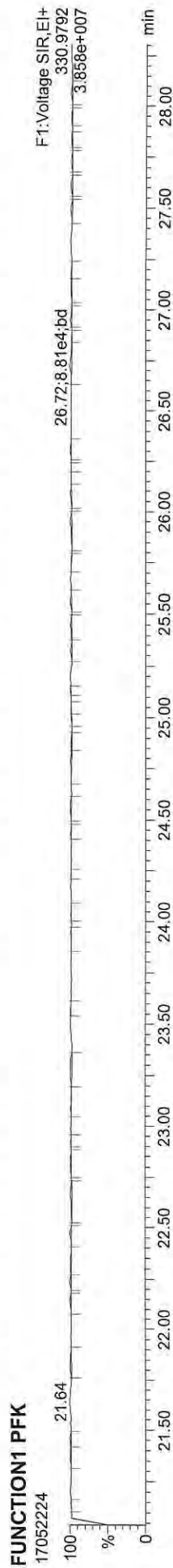
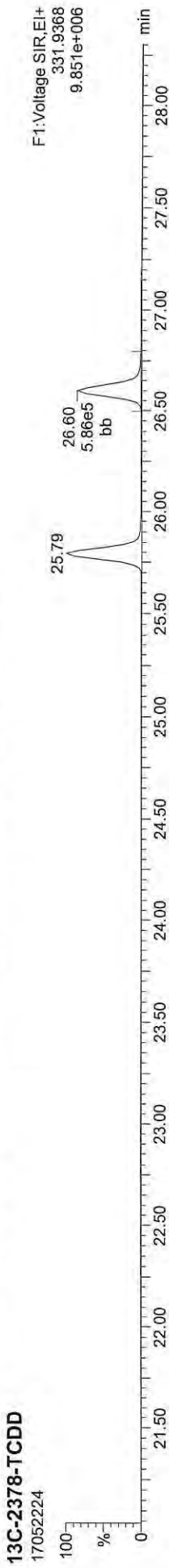
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ID: CS3B3, Name: 17052224, Date: 23-May-2017, Time: 06:01:57, Conditions: AUTOSPEC01, User: PK



Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 11:29:51 Pacific Daylight Time

ID: CS3B3, Name: 17052224, Date: 23-May-2017, Time: 06:01:57, Conditions: AUTOSPEC01, User: PK



Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 11:29:51 Pacific Daylight Time

ID: CS3B3, Name: 17052224, Date: 23-May-2017, Time: 06:01:57, Conditions: AUTOSPEC01, User: PK

13C-2378-TCDF



13C-2378-TCDF



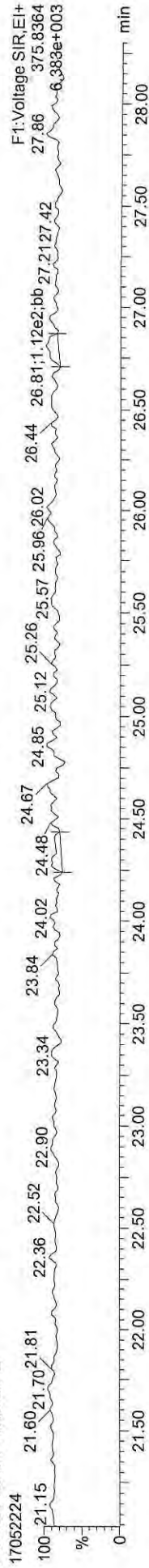
Total-tetrafurans



Total-tetrafurans

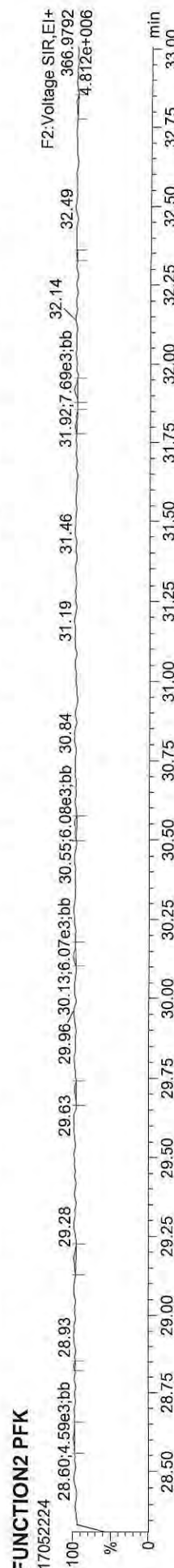
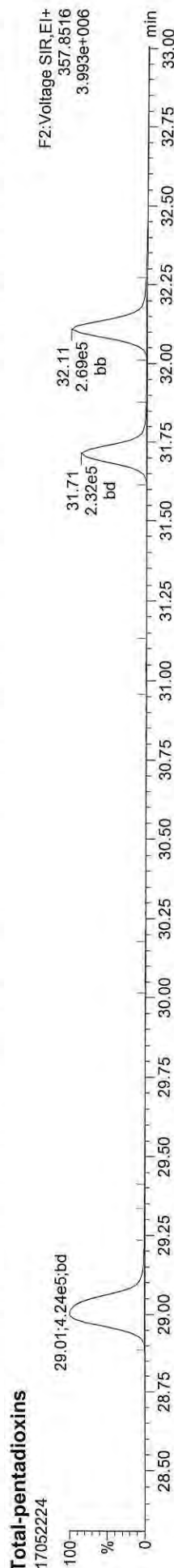
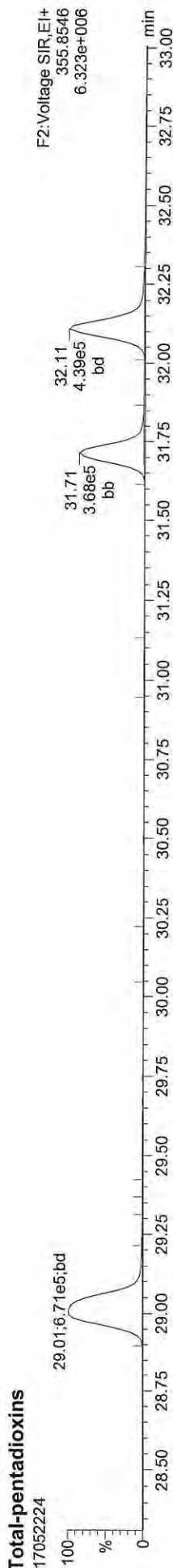
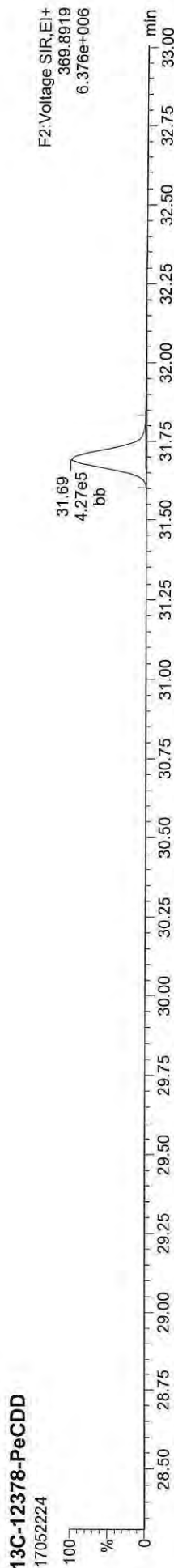
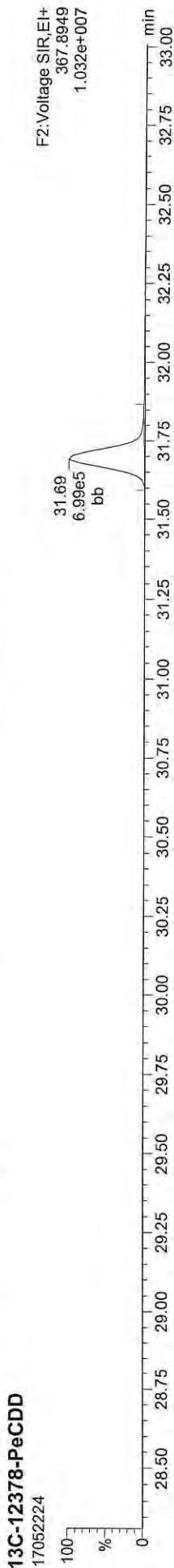


FUNCTION1 HXCDFE



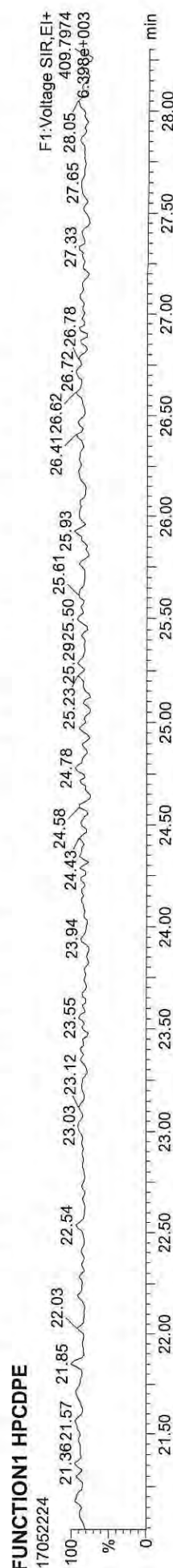
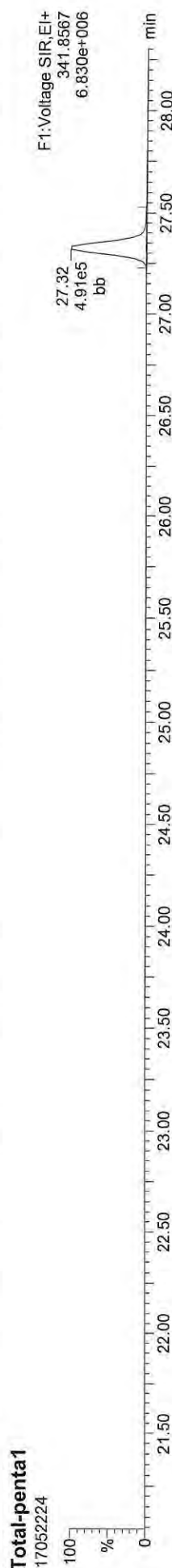
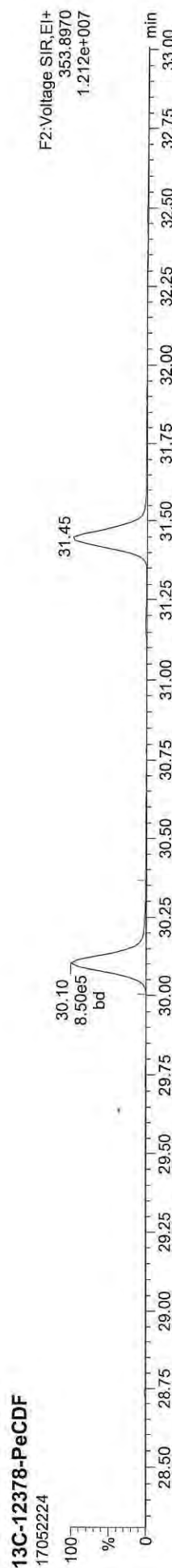
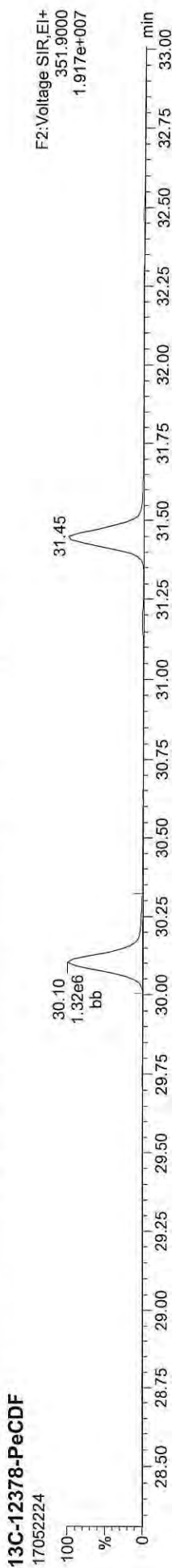
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 11:29:51 Pacific Daylight Time

ID: CS3B3, Name: 17052224, Date: 23-May-2017, Time: 06:01:57, Conditions: AUTOSPEC01, User: PK



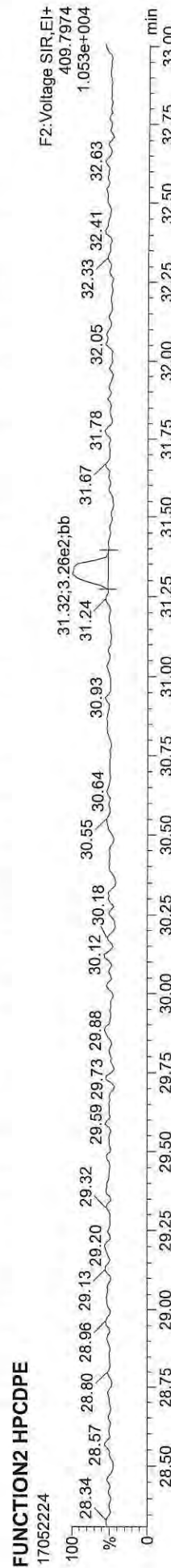
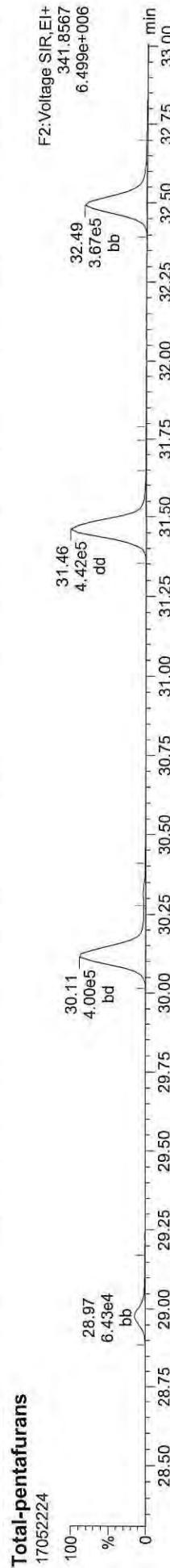
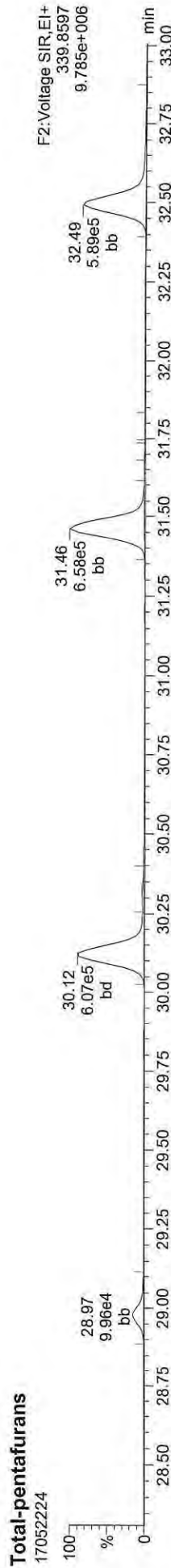
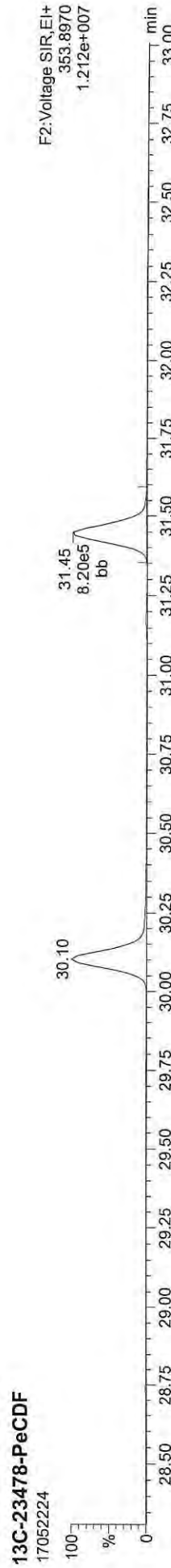
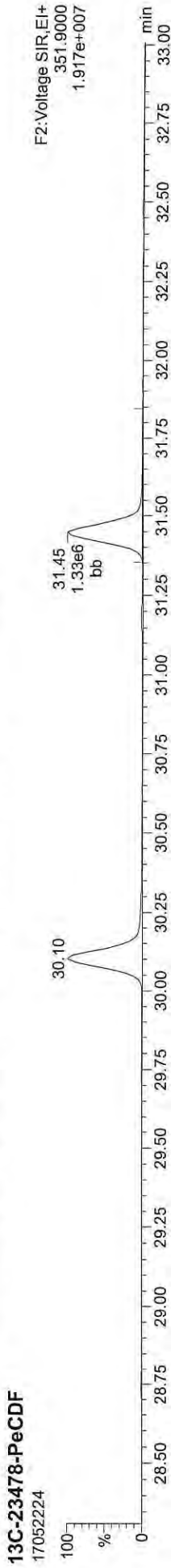
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 11:29:51 Pacific Daylight Time

ID: CS3B3, Name: 17052224, Date: 23-May-2017, Time: 06:01:57, Conditions: AUTOSPEC01, User: PK



Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
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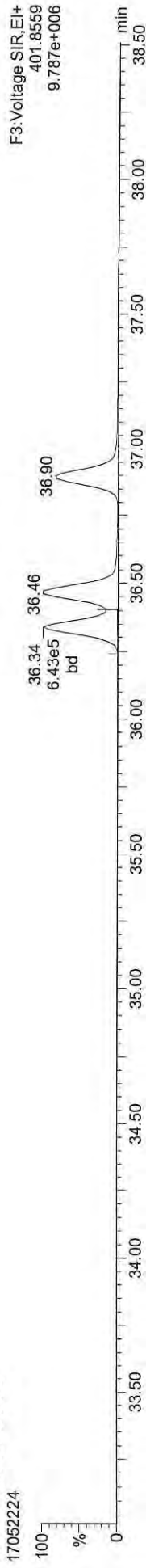
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Quantify Sample Report **MassLynx MassLynx V4.1 SCN909**
Dataset: C:\MassLynx\IDioxin.pro\170522D2.qld
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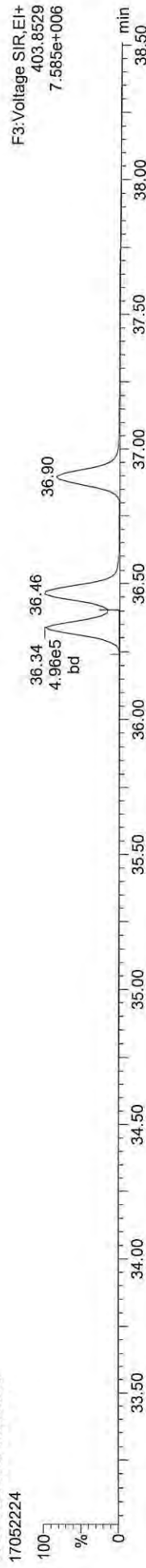
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13C-123478-HxCDD



F3: Voltage SIR, EI+
401.8559
9.787e+006

13C-123478-HxCDD



F3: Voltage SIR, EI+
403.8529
7.585e+006

Total-hexadioxins



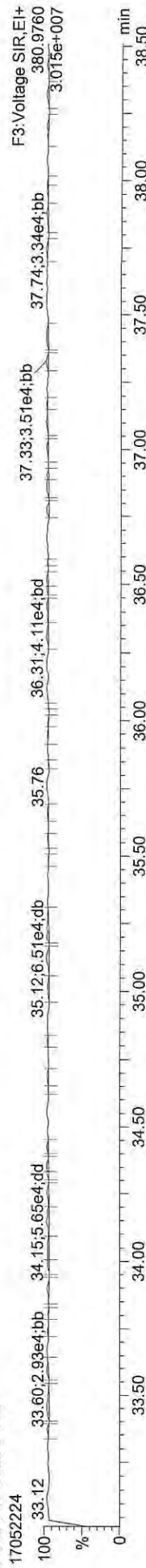
F3: Voltage SIR, EI+
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5.378e+006

Total-hexadioxins



F3: Voltage SIR, EI+
391.8127
4.253e+006

FUNCTION3 PFK

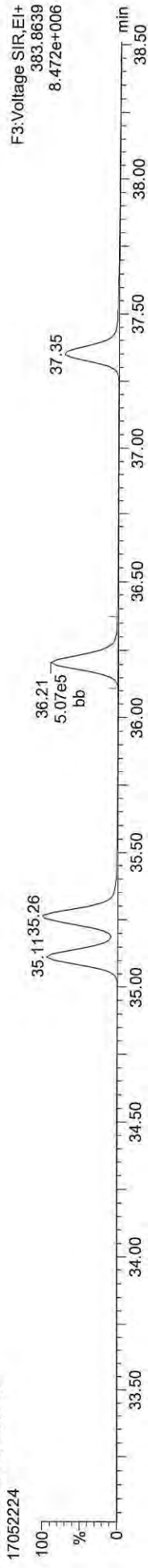


F3: Voltage SIR, EI+
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3.075e+007

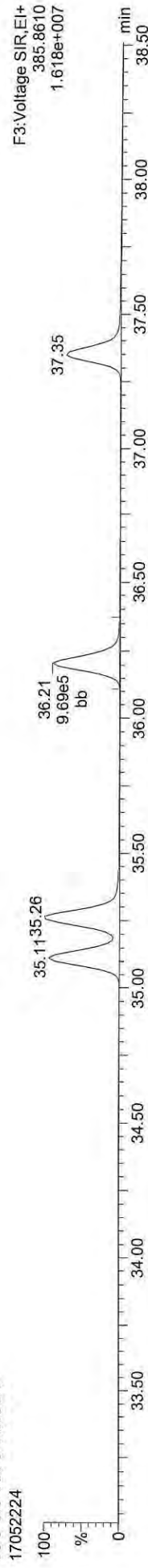
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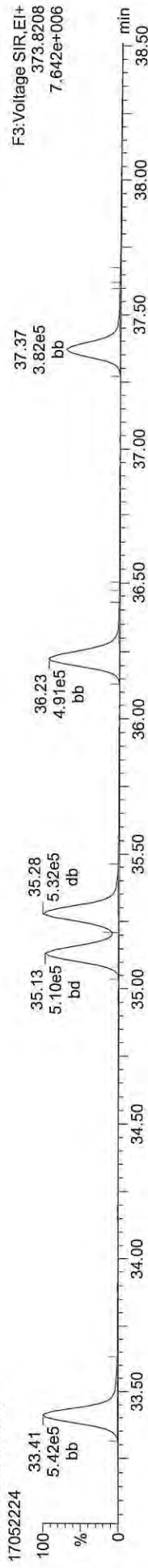
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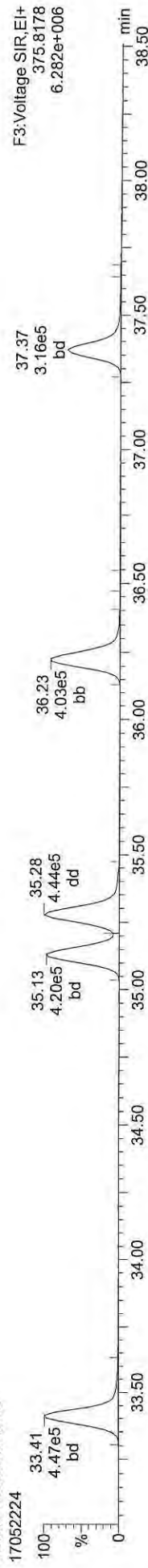
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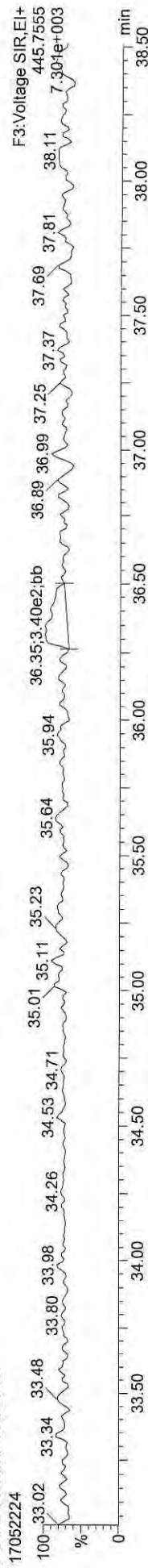
Total-hexafurans



Total-hexafurans



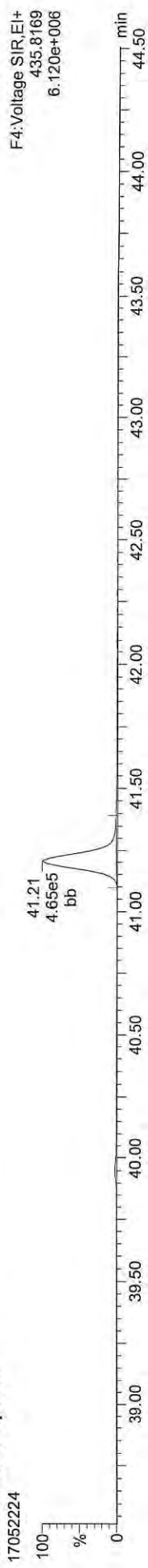
FUNCTION3 OCDFE



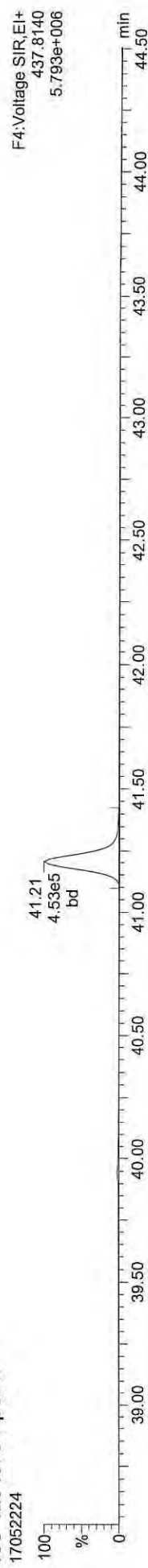
Quantify Sample Report MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Diouxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
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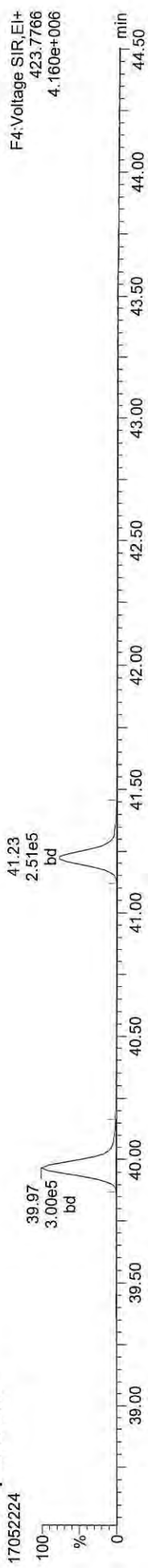
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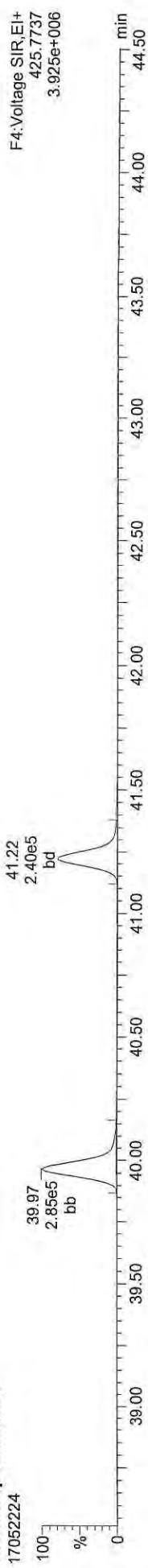
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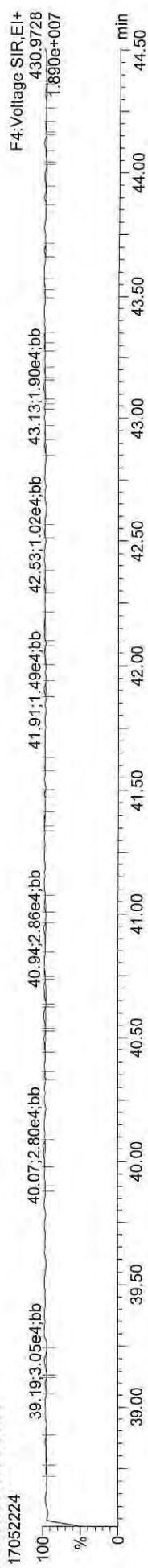
Total-heptadioxins



Total-heptadioxins



FUNCTION4 PFK

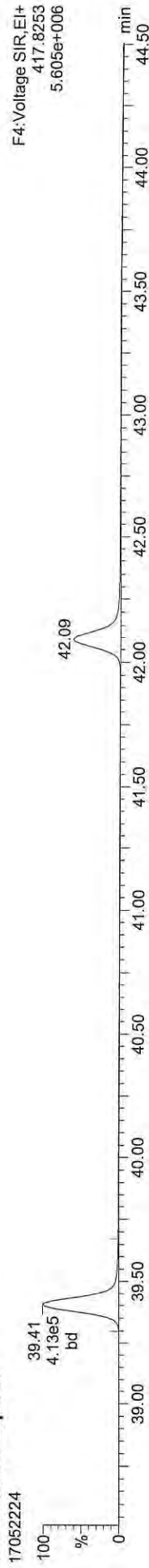


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Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
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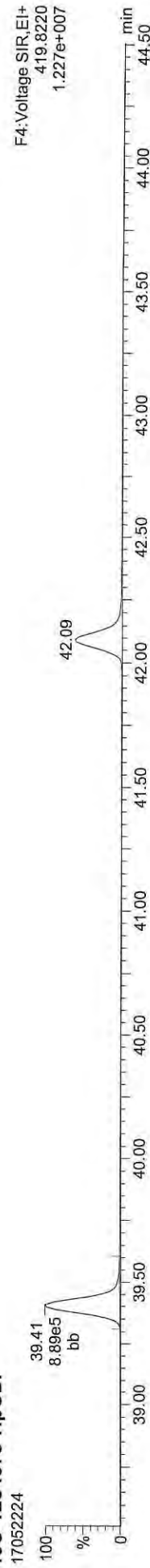
MassLynx MassLynx V4.1 SCN909

ID: CS3B3, Name: 17052224, Date: 23-May-2017, Time: 06:01:57, Conditions: AUTOSPEC01, User: PK

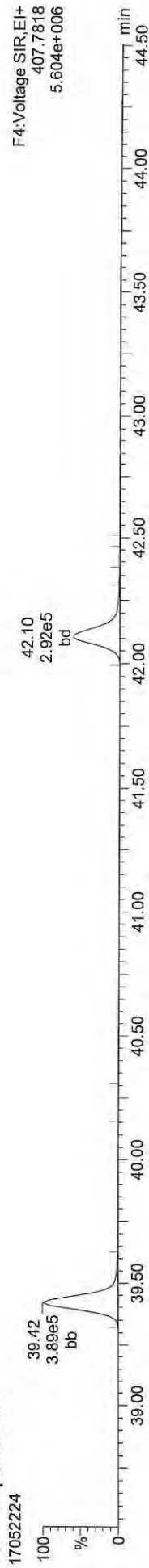
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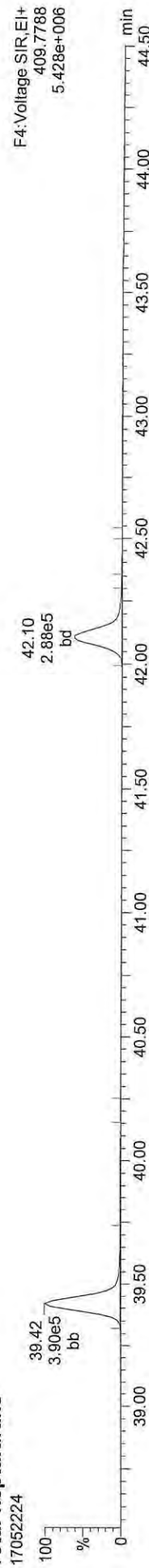
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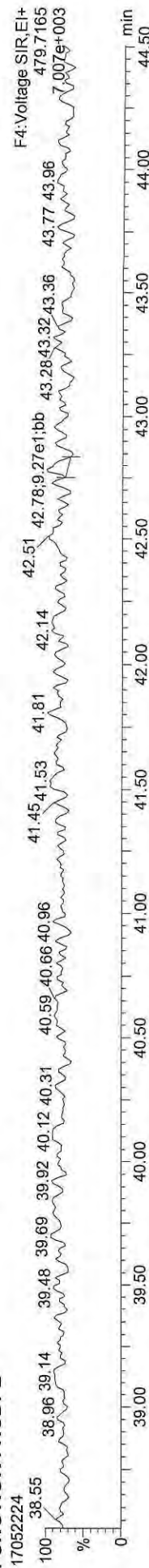
Total-heptafulurans



Total-heptafulurans

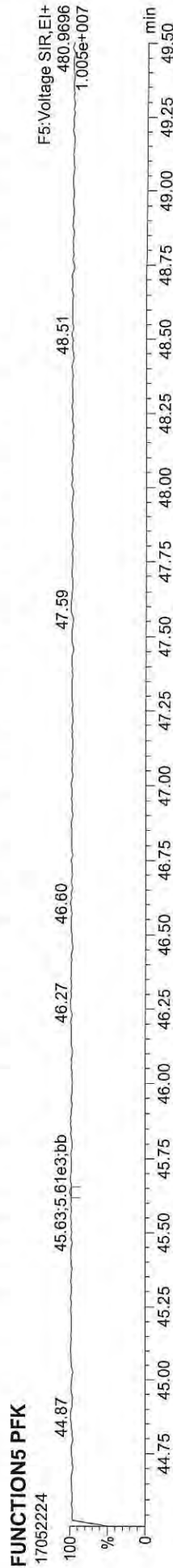
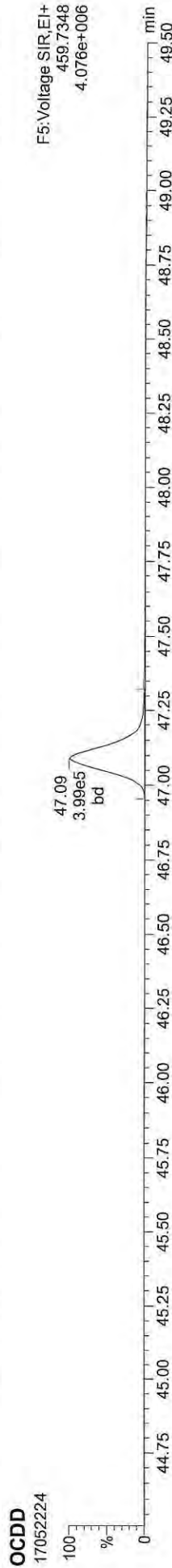
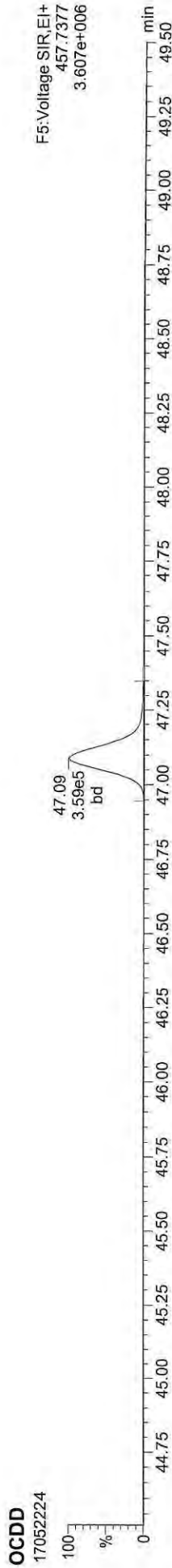
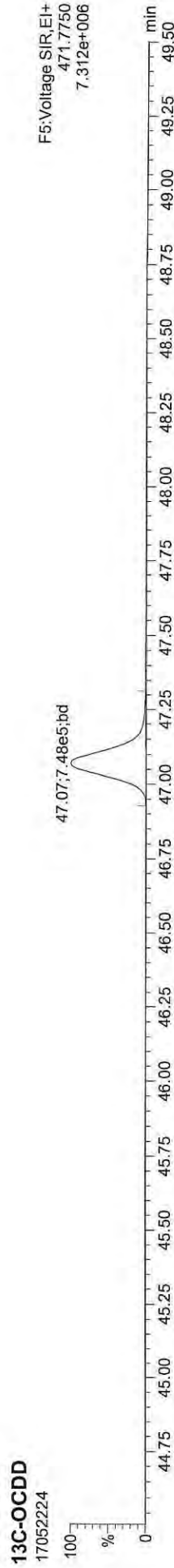
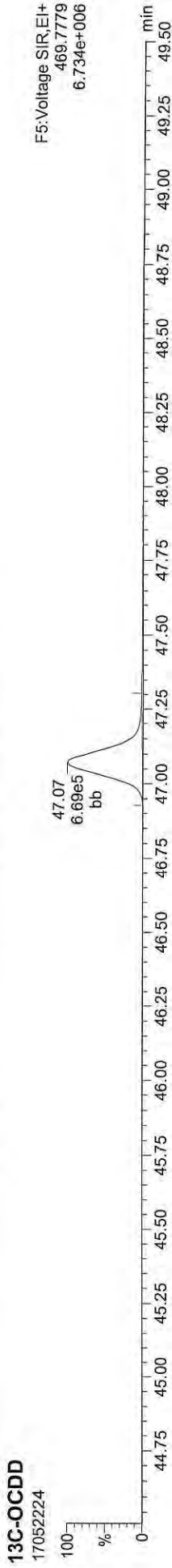


FUNCTION4 NCDPE



Quantify Sample Report
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 11:29:51 Pacific Daylight Time

ID: CS3B3, Name: 17052224, Date: 23-May-2017, Time: 06:01:57, Conditions: AUTOSPEC01, User: PK



Quantify Sample Report

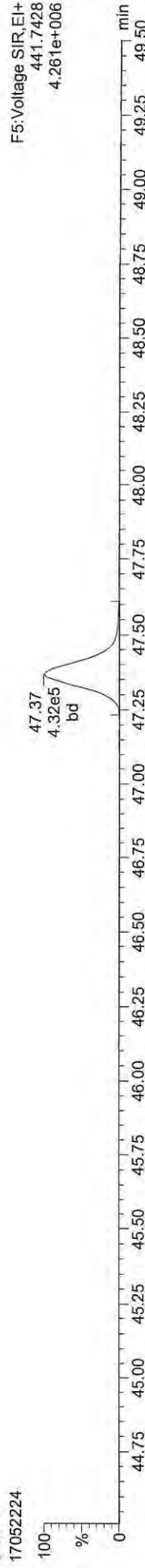
MassLynx MassLynx V4.1 SCN909
Dataset: C:\MassLynx\Dioxin.pro\17052224.d
Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
Printed: Tuesday, May 23, 2017 11:29:51 Pacific Daylight Time

ID: CS3B3, Name: 17052224, Date: 23-May-2017, Time: 06:01:57, Conditions: AUTOSPEC01, User: PK

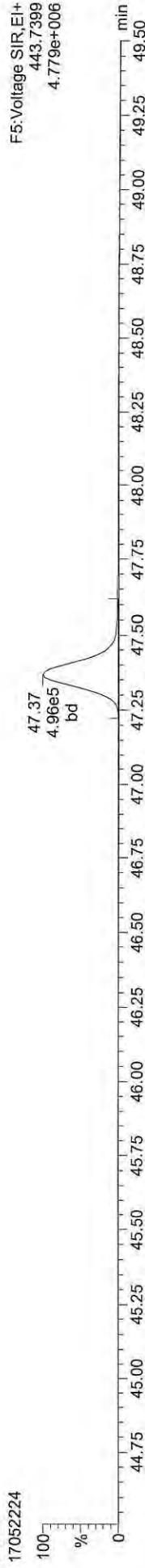
37CL-2378-TCDD



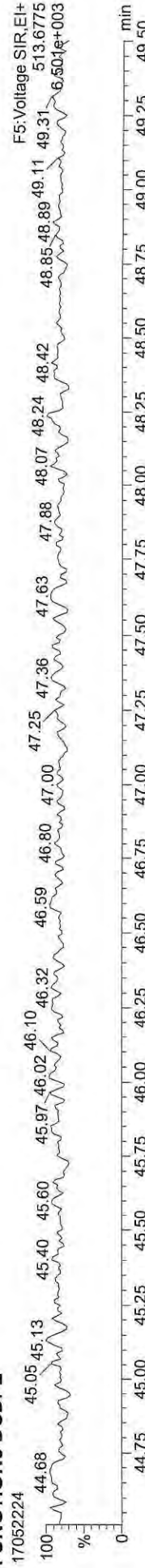
OCDF



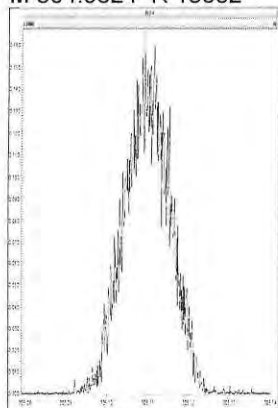
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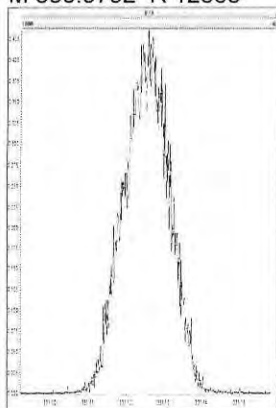
FUNCTION5 DCDPE



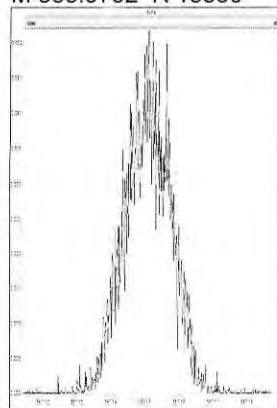
M 304.9824 R 13062



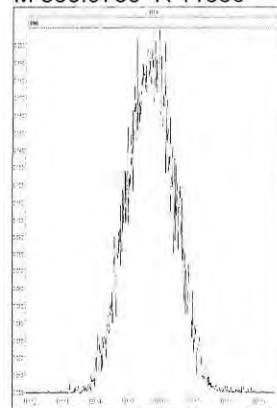
M 330.9792 R 12563



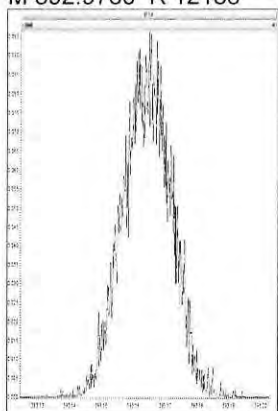
M 366.9792 R 13550



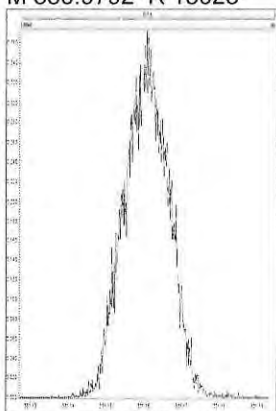
M 380.9760 R 11850



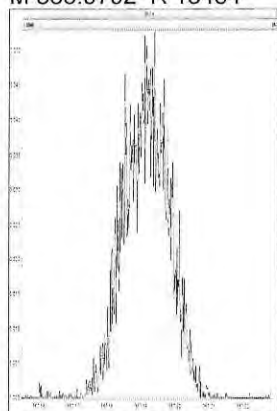
M 392.9760 R 12136



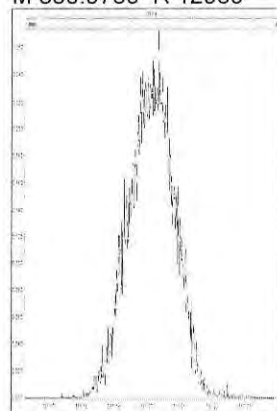
M 330.9792 R 13023



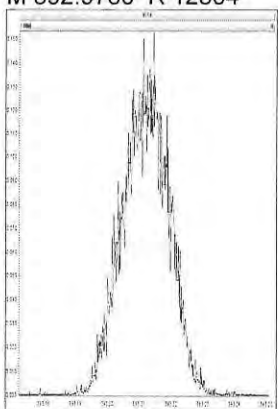
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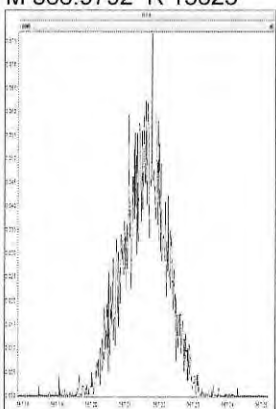
M 380.9760 R 12969



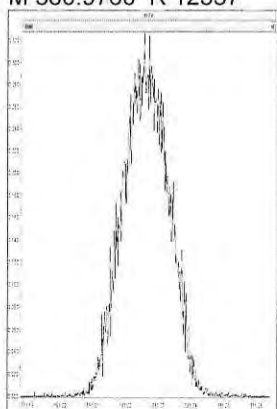
M 392.9760 R 12504



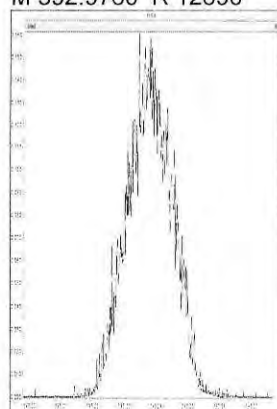
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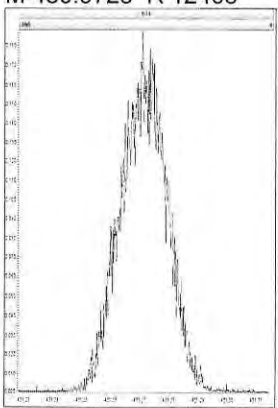
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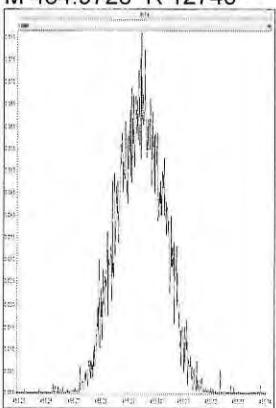
M 392.9760 R 12690



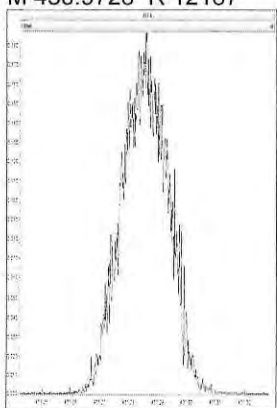
M 430.9728 R 12408



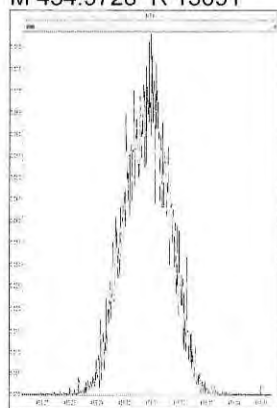
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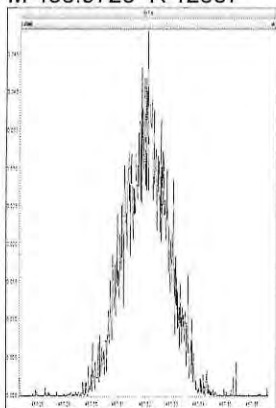
M 430.9728 R 12167



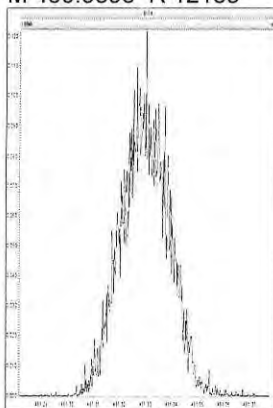
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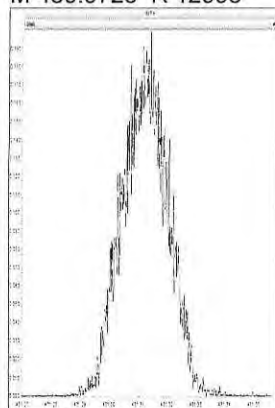
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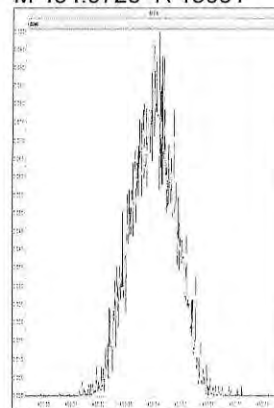
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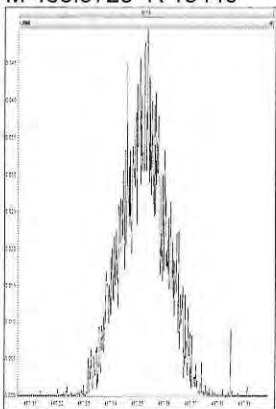
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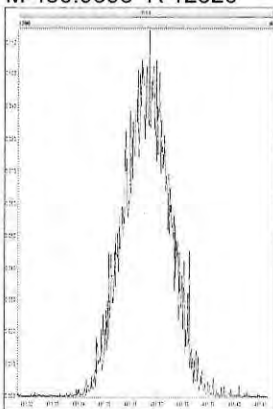
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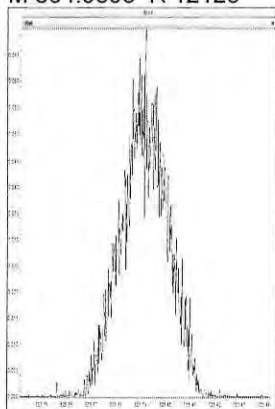
M 466.9728 R 13440



M 480.9696 R 12820

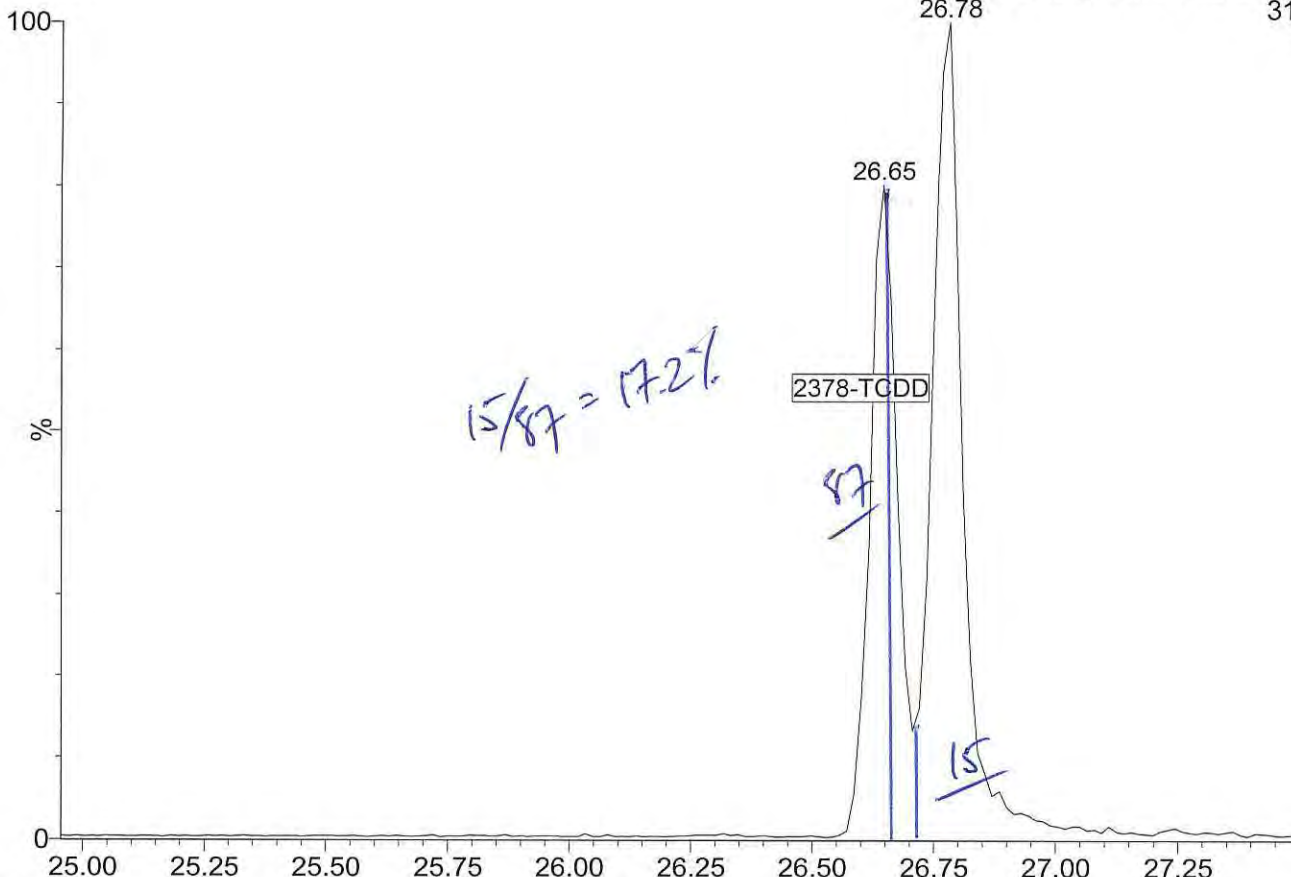


M 504.9696 R 12126



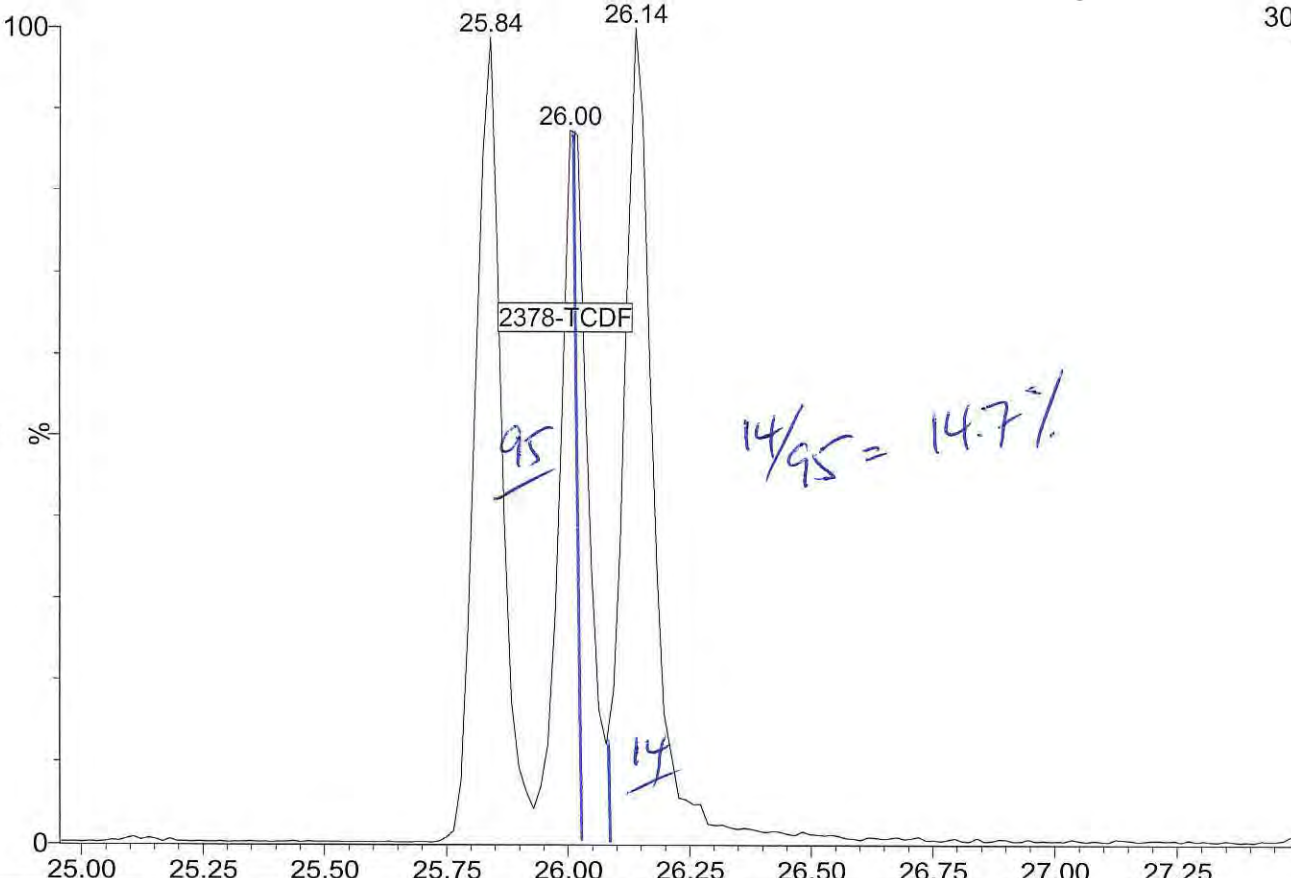
17052225

1: Voltage SIR 15 Channels EI+
319.8965
1.32e6



17052225

1: Voltage SIR 15 Channels EI+
303.9016
1.83e6





**CDD/CDF CHROMATOGRAPHIC
RESOLUTION SUMMARY
EPA 1613B**

Lab Name: Analytical Resources, Inc. SDG: 17E0012
 Instrument .ID: AUTOSPEC01 Lab File ID: 17052203
 Date Analyzed: 05/22/17 Time Analyzed: 11:04
 Lab Sample ID: SFE0219-RES1 Sequence: SFE0219

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

1278-TCDD/2378-TCDD: 20.8

3467-TCDF/2378-TCDF: 17.5

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SFE0219-ICV1	CS301	17052202	05/22/2017	10:12
SFE0219-RES1	ISC01	17052203	05/22/2017	11:04
BFE0233-BLK1	Blank	17052204	05/22/2017	12:05
BFE0233-BS1	LCS	17052205	05/22/2017	12:57
SFE0219-CCV1	CS302	17052213	05/22/2017	20:03
SFE0219-RES2	ISC02	17052214	05/22/2017	21:01
17E0012-01	PG-PJ-OYS-COC-170427	17052218	05/23/2017	00:42
17E0012-02	PG-PJ-COC-COC-170427	17052219	05/23/2017	01:35
17E0012-03	PG-PJ-LTN-COC-170427	17052220	05/23/2017	02:28
17E0012-04	PG-PJ-MAN-COC-170427	17052221	05/23/2017	03:22
17E0012-05	PG-PJ-HC-COC-170428	17052222	05/23/2017	04:15
17E0012-06	PG-PJ-MUS-COC-170427	17052223	05/23/2017	05:08
SFE0219-CCV2	CS303	17052224	05/23/2017	06:01
SFE0219-RES3	ISC03	17052225	05/23/2017	07:00



CDD/CDF CHROMATOGRAPHIC RESOLUTION SUMMARY EPA 1613B

Lab Name: Analytical Resources, Inc. SDG: 17E0012
Instrument .ID: AUTOSPEC01 Lab File ID: 17052214
Date Analyzed: 05/22/17 Time Analyzed: 21:01
Lab Sample ID: SFE0219-RES2 Sequence: SFE0219

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

1278-TCDD/2378-TCDD: 15.7

3467-TCDF/2378-TCDF: 13.6

Quality Control (QC) Limits: $\leq 25\%$

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SFE0219-ICV1	CS301	17052202	05/22/2017	10:12
SFE0219-RES1	ISC01	17052203	05/22/2017	11:04
BFE0233-BLK1	Blank	17052204	05/22/2017	12:05
BFE0233-BS1	LCS	17052205	05/22/2017	12:57
SFE0219-CCV1	CS302	17052213	05/22/2017	20:03
SFE0219-RES2	ISC02	17052214	05/22/2017	21:01
17E0012-01	PG-PJ-OYS-COC-170427	17052218	05/23/2017	00:42
17E0012-02	PG-PJ-COC-COC-170427	17052219	05/23/2017	01:35
17E0012-03	PG-PJ-LTN-COC-170427	17052220	05/23/2017	02:28
17E0012-04	PG-PJ-MAN-COC-170427	17052221	05/23/2017	03:22
17E0012-05	PG-PJ-HC-COC-170428	17052222	05/23/2017	04:15
17E0012-06	PG-PJ-MUS-COC-170427	17052223	05/23/2017	05:08
SFE0219-CCV2	CS303	17052224	05/23/2017	06:01
SFE0219-RES3	ISC03	17052225	05/23/2017	07:00



**CDD/CDF CHROMATOGRAPHIC
RESOLUTION SUMMARY
EPA 1613B**

Lab Name: Analytical Resources, Inc. SDG: 17E0012
 Instrument .ID: AUTOSPEC01 Lab File ID: 17052225
 Date Analyzed: 05/23/17 Time Analyzed: 07:00
 Lab Sample ID: SFE0219-RES3 Sequence: SFE0219

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

1278-TCDD/2378-TCDD: 17.2

3467-TCDF/2378-TCDF: 14.7

Quality Control (QC) Limits: $\leq 25\%$

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SFE0219-ICV1	CS301	17052202	05/22/2017	10:12
SFE0219-RES1	ISC01	17052203	05/22/2017	11:04
BFE0233-BLK1	Blank	17052204	05/22/2017	12:05
BFE0233-BS1	LCS	17052205	05/22/2017	12:57
SFE0219-CCV1	CS302	17052213	05/22/2017	20:03
SFE0219-RES2	ISC02	17052214	05/22/2017	21:01
17E0012-01	PG-PJ-OYS-COC-170427	17052218	05/23/2017	00:42
17E0012-02	PG-PJ-COC-COC-170427	17052219	05/23/2017	01:35
17E0012-03	PG-PJ-LTN-COC-170427	17052220	05/23/2017	02:28
17E0012-04	PG-PJ-MAN-COC-170427	17052221	05/23/2017	03:22
17E0012-05	PG-PJ-HC-COC-170428	17052222	05/23/2017	04:15
17E0012-06	PG-PJ-MUS-COC-170427	17052223	05/23/2017	05:08
SFE0219-CCV2	CS303	17052224	05/23/2017	06:01
SFE0219-RES3	ISC03	17052225	05/23/2017	07:00



**CDD/CDF CHROMATOGRAPHIC
RESOLUTION SUMMARY
EPA 1613B**

Lab Name:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17E0012</u>
Instrument .ID:	<u>AUTOSPEC01</u>	Lab File ID:	<u>17051803</u>
Date Analyzed:	<u>05/18/17</u>	Time Analyzed:	<u>17:36</u>
Lab Sample ID:	<u>SFE0273-RES1</u>	Sequence:	<u>SFE0273</u>

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

1278-TCDD/2378-TCDD: 14.8

3467-TCDF/2378-TCDF: 13.4

Quality Control (QC) Limits: ≤ 25%

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SFE0273-RES1	ISC01	17051803	05/18/2017	17:36
SFE0273-CAL1	CSL	17051805	05/18/2017	19:22
SFE0273-CAL2	CS1	17051806	05/18/2017	20:16
SFE0273-CAL3	CS2	17051807	05/18/2017	21:09
SFE0273-CAL4	CS3	17051808	05/18/2017	22:02
SFE0273-CAL5	CS4	17051809	05/18/2017	22:55
SFE0273-CAL6	CS5	17051810	05/18/2017	23:49
SFE0273-SCV1	ICV	17051811	05/19/2017	00:42
SFE0273-RES2	ISC02	17051812	05/19/2017	01:36



**CDD/CDF CHROMATOGRAPHIC
RESOLUTION SUMMARY
EPA 1613B**

Lab Name: Analytical Resources, Inc. SDG: 17E0012
Instrument .ID: AUTOSPEC01 Lab File ID: 17051812
Date Analyzed: 05/19/17 Time Analyzed: 01:36
Lab Sample ID: SFE0273-RES2 Sequence: SFE0273

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

1278-TCDD/2378-TCDD: 14.6

3467-TCDF/2378-TCDF: 12.4

Quality Control (QC) Limits: $\leq 25\%$

Lab Sample ID	Sample Name	Lab File ID	Data Analyzed	Time Analyzed
SFE0273-RES1	ISC01	17051803	05/18/2017	17:36
SFE0273-CAL1	CSL	17051805	05/18/2017	19:22
SFE0273-CAL2	CS1	17051806	05/18/2017	20:16
SFE0273-CAL3	CS2	17051807	05/18/2017	21:09
SFE0273-CAL4	CS3	17051808	05/18/2017	22:02
SFE0273-CAL5	CS4	17051809	05/18/2017	22:55
SFE0273-CAL6	CS5	17051810	05/18/2017	23:49
SFE0273-SCV1	ICV	17051811	05/19/2017	00:42
SFE0273-RES2	ISC02	17051812	05/19/2017	01:36



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Sequence: SFE0219

Instrument: AUTOSPEC01

Calibration: AE00055

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CS301	SFE0219-ICV1	17052202	Tissue	05/22/17 10:12
ISC01	SFE0219-RES1	17052203	Tissue	05/22/17 11:04
Blank	BFE0233-BLK1	17052204	Tissue	05/22/17 12:05
LCS	BFE0233-BS1	17052205	Tissue	05/22/17 12:57
CS302	SFE0219-CCV1	17052213	Tissue	05/22/17 20:03
ISC02	SFE0219-RES2	17052214	Tissue	05/22/17 21:01
PG-PJ-OYS-COC-170427	17E0012-01	17052218	Tissue	05/23/17 00:42
PG-PJ-COC-COC-170427	17E0012-02	17052219	Tissue	05/23/17 01:35
PG-PJ-LTN-COC-170427	17E0012-03	17052220	Tissue	05/23/17 02:28
PG-PJ-MAN-COC-170427	17E0012-04	17052221	Tissue	05/23/17 03:22
PG-PJ-HC-COC-170428	17E0012-05	17052222	Tissue	05/23/17 04:15
PG-PJ-MUS-COC-170427	17E0012-06	17052223	Tissue	05/23/17 05:08
CS303	SFE0219-CCV2	17052224	Tissue	05/23/17 06:01
ISC03	SFE0219-RES3	17052225	Tissue	05/23/17 07:00

Port Gamble Shellfish Monitoring**17E0012****Analysis**
1613B Dioxin**Matrix**
Tissue**Method**
EPA 1613B**Checklist: DLM02.2 HR-GC/MS Checklist**

#	Checklist Item	Response	Analyst Initials	Date
1	Resolution Check > 10,000 ppm	YES	PK	05/23/2017
2	TCDD/TCDF Resolution <= 25%	YES	PK	05/23/2017
3	PCDF markers >= 10 seconds from scan descriptor switch	YES	PK	05/23/2017
4	ICV/CCV meets %D limits	YES	PK	05/23/2017
5	ICV/CCV Ion ratios within limits	YES	PK	05/23/2017
6	ICV/CCV RRT within limits	YES	PK	05/23/2017
7	Manual integrations have been stamped and signed	NO	PK	05/23/2017
	Comments: <i>EXCEPTION REPORT REQUIRED</i>			
8	Signal/Noise >= 3.0 for all detections	YES	PK	05/23/2017
9	AUTOCHECK: Blank checked for exceedance of criteria	NO *	PK	05/23/2017

Comments:

*QC Sample BFE0233-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 = 0.224 ng/kg**Criterion = 0 x RL**QC Sample BFE0233-BLK1 failed criteria for 1,2,3,4,6,7,8-HpCDF in 1613B Dioxin.**MDL = 0.470 ng/kg**MRL = 5.00 ng/kg**Result = 0.120 ng/kg**Criterion = 0 x RL**QC Sample BFE0233-BLK1 failed criteria for 1,2,3,4,7,8,9-HpCDF in 1613B Dioxin.**MDL = 0.450 ng/kg**MRL = 5.00 ng/kg**Result = 0.104 ng/kg**Criterion = 0 x RL**- Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin**QC Sample BFE0233-BLK1 failed criteria for 1,2,3,4,7,8-HxCDD in 1613B Dioxin.**MDL = 0.480 ng/kg**MRL = 5.00 ng/kg**Result = 0.0686 ng/kg**Criterion = 0 x RL**- Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin**QC Sample BFE0233-BLK1 failed criteria for 1,2,3,4,7,8-HxCDF in 1613B Dioxin.**MDL = 0.440 ng/kg*

* = Indicates Automated Response from Element DataSyst

Port Gamble Shellfish Monitoring

17E0012

Analysis
1613B Dioxin

Matrix
Tissue

Method
EPA 1613B

Checklist: DLM02.2 HR-GC/MS Checklist

#	Checklist Item	Response	Analyst Initials	Date
	<p>MRL = 5.00 ng/kg Result = 0.0839 ng/kg Criterion = 0 x RL - Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin</p> <p>QC Sample BFE0233-BLK1 failed criteria for 1,2,3,6,7,8-HxCDD in 1613B Dioxin. MDL = 0.370 ng/kg MRL = 5.00 ng/kg Result = 0.0861 ng/kg Criterion = 0 x RL - Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin</p> <p>QC Sample BFE0233-BLK1 failed criteria for 1,2,3,6,7,8-HxCDF in 1613B Dioxin. MDL = 0.390 ng/kg MRL = 5.00 ng/kg Result = 0.0511 ng/kg Criterion = 0 x RL</p> <p>QC Sample BFE0233-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 = 0.142 ng/kg Criterion = 0 x RL - Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin</p> <p>QC Sample BFE0233-BLK1 failed criteria for 1,2,3,7,8-PeCDD in 1613B Dioxin. MDL = 0.490 ng/kg MRL = 5.00 ng/kg Result = 0.0474 ng/kg Criterion = 0 x RL</p> <p>QC Sample BFE0233-BLK1 failed criteria for 1,2,3,7,8-PeCDF in 1613B Dioxin. MDL = 0.470 ng/kg MRL = 5.00 ng/kg Result = 0.100 ng/kg Criterion = 0 x RL - Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin</p> <p>QC Sample BFE0233-BLK1 failed criteria for 2,3,4,6,7,8-HxCDF in 1613B Dioxin. MDL = 0.410 ng/kg MRL = 5.00 ng/kg Result = 0.0524 ng/kg</p>			

* = Indicates Automated Response from Element DataSyst

Port Gamble Shellfish Monitoring

17E0012

Analysis
1613B Dioxin

Matrix
Tissue

Method
EPA 1613B

Checklist: DLM02.2 HR-GC/MS Checklist

#	Checklist Item	Response	Analyst Initials	Date
	<p><i>Criterion = 0 x RL</i> - Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin</p> <p><i>QC Sample BFE0233-BLK1 failed criteria for 2,3,7,8-TCDD in 1613B Dioxin.</i> MDL = 0.160 ng/kg MRL = 1.00 ng/kg Result = 0.209 ng/kg Criterion = 0 x RL - Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin</p> <p><i>QC Sample BFE0233-BLK1 failed criteria for 2,3,7,8-TCDF in 1613B Dioxin.</i> MDL = 0.050 ng/kg MRL = 1.00 ng/kg Result = 0.0544 ng/kg Criterion = 0 x RL - Estimated Maximum Possible Concentration qualifier for HRGCMS Dioxin</p> <p><i>QC Sample BFE0233-BLK1 failed criteria for OCDD in 1613B Dioxin.</i> MDL = 1.83 ng/kg MRL = 10.0 ng/kg Result = 1.82 ng/kg Criterion = 0 x RL</p> <p><i>QC Sample BFE0233-BLK1 failed criteria for OCDF in 1613B Dioxin.</i> MDL = 0.740 ng/kg MRL = 10.0 ng/kg Result = 0.301 ng/kg Criterion = 0 x RL</p> <p><i>QC Sample BFE0233-BLK1 failed criteria for Total HpCDD in 1613B Dioxin.</i> MRL = 1.00 ng/kg Result = 0.722 ng/kg Criterion = 0 x RL</p> <p><i>QC Sample BFE0233-BLK1 failed criteria for Total HpCDF in 1613B Dioxin.</i> MRL = 1.00 ng/kg Result = 0.262 ng/kg Criterion = 0 x RL</p> <p><i>QC Sample BFE0233-BLK1 failed criteria for Total HxCDD in 1613B Dioxin.</i> MRL = 1.00 ng/kg</p>			

* = Indicates Automated Response from Element DataSyst

Port Gamble Shellfish Monitoring

17E0012

Analysis
1613B Dioxin

Matrix
Tissue

Method
EPA 1613B

Checklist: DLM02.2 HR-GC/MS Checklist

#	Checklist Item	Response	Analyst Initials	Date
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Result = 0.155 ng/kg
Criterion = 0 x RL

QC Sample BFE0233-BLK1 failed criteria for Total HxCDF in 1613B Dioxin.
MRL = 1.00 ng/kg
Result = 0.329 ng/kg
Criterion = 0 x RL

QC Sample BFE0233-BLK1 failed criteria for Total PeCDD in 1613B Dioxin.
MRL = 1.00 ng/kg
Result = 0.0474 ng/kg
Criterion = 0 x RL

QC Sample BFE0233-BLK1 failed criteria for Total PeCDF in 1613B Dioxin.
MRL = 1.00 ng/kg
Result = 0.100 ng/kg
Criterion = 0 x RL

QC Sample BFE0233-BLK1 failed criteria for Total TCDD in 1613B Dioxin.
MRL = 1.00 ng/kg
Result = 0.263 ng/kg
Criterion = 0 x RL

QC Sample BFE0233-BLK1 failed criteria for Total TCDF in 1613B Dioxin.
MRL = 1.00 ng/kg
Result = 0.0932 ng/kg
Criterion = 0 x RL

10	AUTOCHECK: Check Extraction and Cleanup Surrogate recoveries	NO *	PK	05/23/2017
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Comments:

The following labels were outside method limits. Tissue samples sometimes have low recoveries.

Surrogate Recovery for 13C12-1,2,3,4,6,7,8-HpCDF (26.5%) was outside acceptance limits (28-143) in 17D0421-07 for 1613B Dioxin

Surrogate Recovery for 13C12-1,2,3,4,7,8,9-HpCDF (24.5%) was outside acceptance limits (26-138) in 17D0421-07 for 1613B Dioxin

Surrogate Recovery for 13C12-1,2,3,4,7,8-HxCDD (31.0%) was outside acceptance limits (32-141) in 17D0421-07 for 1613B Dioxin

Surrogate Recovery for 13C12-1,2,3,7,8,9-HxCDF (25.7%) was outside acceptance limits (29-147) in 17D0421-07 for 1613B Dioxin

* = Indicates Automated Response from Element DataSyst

Port Gamble Shellfish Monitoring**17E0012****Analysis**
1613B Dioxin**Matrix**
Tissue**Method**
EPA 1613B**Checklist: DLM02.2 HR-GC/MS Checklist**

#	Checklist Item	Response	Analyst Initials	Date
	<i>Surrogate Recovery for 13C12-2,3,4,6,7,8-HxCDF (27.7%) was outside acceptance limits (28-136) in 17D0421-07 for 1613B Dioxin</i>			
	<i>Surrogate Recovery for 13C12-1,2,3,4,6,7,8-HpCDF (27.4%) was outside acceptance limits (28-143) in 17D0421-09 for 1613B Dioxin</i>			
	<i>Surrogate Recovery for 13C12-1,2,3,7,8,9-HxCDF (28.2%) was outside acceptance limits (29-147) in 17D0421-09 for 1613B Dioxin</i>			
	<i>Surrogate Recovery for 13C12-1,2,3,4,6,7,8-HpCDF (25.9%) was outside acceptance limits (28-143) in 17E0012-04 for 1613B Dioxin</i>			
	<i>Surrogate Recovery for 13C12-1,2,3,4,7,8,9-HpCDF (23.6%) was outside acceptance limits (26-138) in 17E0012-04 for 1613B Dioxin</i>			
	<i>Surrogate Recovery for 13C12-1,2,3,7,8,9-HxCDF (24.0%) was outside acceptance limits (29-147) in 17E0012-04 for 1613B Dioxin</i>			
	<i>Surrogate Recovery for 13C12-1,2,3,7,8-PeCDF (23.3%) was outside acceptance limits (24-185) in 17E0012-04 for 1613B Dioxin</i>			
11	AUTOCHECK: Check blank spike (OPR) recovery	YES *	PK	05/23/2017
12	Sample values exceeding calibration range Comments: <i>EXCEPTION REPORT REQUIRED</i>	NO	PK	05/23/2017
13	Samples diluted Comments: <i>EXCEPTION REPORT REQUIRED</i>	NO	PK	05/23/2017
14	AUTOCHECK: Check %RPD between sample and sample duplicate	NA *	PK	05/23/2017
15	AUTOCHECK: Check SRM limits for exceedance	NA *	PK	05/23/2017
16	EPA CASE#	NA	MW	05/24/2017
17	Analyst checklist completed (PEER)	YES	MW	05/24/2017
18	Data is locked and status is analyzed (PEER)	YES	MW	05/24/2017
19	Data file, Batch, and Cleanup .pdf's are attached (PEER)	YES	MW	05/24/2017
20	Color warnings have been addressed and (or) qualified (PEER)	YES	MW	05/24/2017
21	Qualifiers have been correctly added (PEER)	YES	MW	05/24/2017
22	Checklist completed and status is peer reviewed (REVIEWER) Comments: <i>EXCEPTION REPORT REQUIRED</i>	NO	MW	05/24/2017

Port Gamble Shellfish Monitoring

17E0012

Analysis
1613B Dioxin

Matrix
Tissue

Method
EPA 1613B

Checklist: DLM02.2 HR-GC/MS Checklist

#	Checklist Item	Response	Analyst Initials	Date
23	Dilutions are linear (50-200%) and appropriate (REVIEWER)	NA	MW	05/24/2017
24	All requested samples have been reported (REVIEWER)	YES	MW	05/24/2017
25	Color warnings have been addressed, narrated and (or) qualified (REVIEWER)	YES	MW	05/24/2017
26	List of samples in this sequence that will require additional runs-verify reshot created (ANALYST) Comments: <i>EXCEPTION REPORT REQUIRED</i>	NO	MW	05/24/2017
27	List of samples in this sequence that are re-analysis or dilutons of samples (ANALYST) Comments: <i>EXCEPTION REPORT REQUIRED</i>	NO	MW	05/24/2017
28	Additional Notes (ANALYST, PEER, and REVIEWER) Comments: <i>samples: 17e0012-04, 17D0421-07,09 have a few labeled compounds marginally out of qc limits. These are qc limits for sediments. QC limits for tissues have yet to be determined.</i>	YES	MW	05/24/2017

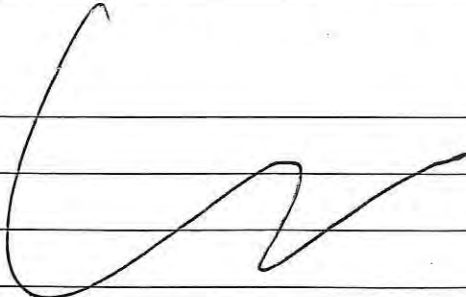
Analytical Resources Inc.: Organics Instrument Log

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

Date: 5/22/17 Analysis: Dioxin Analyst: pk
 GC Program: 8290D Column No.: E765 Column Type: MTS Dioxin 2
 Inj Vol: 1ul Instrument Tune (IPR): May 17 1-5 Detector Voltage: 350
 Resolution Check Files: 10:11, 21:01, 07:00 Curve Date: 5/18/17

IS/SS	Ical/Ccal	LCS/ICV
<u>E7749</u>	<u>E3841</u> <u>B4948</u>	

#	Acq.Date	Acq.Time	File	ID	Comments
1	22-May-17	10:12:41	17052202	CS3B1	
2	22-May-17	11:04:00	17052203	ISCB1	
3	22-May-17	12:05:50	17052204	BFE0233-BLK1	<u>SFR0219</u>
4	22-May-17	12:57:17	17052205	BFE0233-BS1	
5	22-May-17	13:50:32	17052206	17D0421-01	
6	22-May-17	14:43:50	17052207	17D0421-02	
7	22-May-17	15:37:05	17052208	17D0421-03	
8	22-May-17	16:30:22	17052209	17D0421-04	
9	22-May-17	17:23:42	17052210	17D0421-05	
10	22-May-17	18:17:05	17052211	17D0421-06	
11	22-May-17	19:10:26	17052212	17D0421-07	
12	22-May-17	20:03:43	17052213	CS3B2	
13	22-May-17	21:01:53	17052214	ISCB2	
14	22-May-17	22:02:20	17052215	17D0421-08	
15	22-May-17	22:55:40	17052216	17D0421-09	
16	22-May-17	23:49:10	17052217	17D0421-10	
17	23-May-17	00:42:26	17052218	17E0012-01	
18	23-May-17	01:35:40	17052219	17E0012-02	
19	23-May-17	02:28:55	17052220	17E0012-03	
20	23-May-17	03:22:10	17052221	17E0012-04	
21	23-May-17	04:15:27	17052222	17E0012-05	
22	23-May-17	05:08:43	17052223	17E0012-06	
23	23-May-17	06:01:57	17052224	CS3B3	
24	23-May-17	07:00:09	17052225	ISCB3	


 pk 5/23/17

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

Dataset: C:\MassLynx\Dioxin.pro\170522D1.qld
 Last Altered: Tuesday, May 23, 2017 10:30:46 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 10:32:11 Pacific Daylight Time

Event	Details	Sample ID
Process Quantify		
Process Integrate		
Process Extract		
Pre modification peak	Sample:17052204, Compound:OF, RT:47.421	1
Pre modification peak	Sample:17052204, Compound:OF, RT:47.411	1
Pre modification peak	Sample:17052204, Compound:TF, RT:25.839	1
Pre modification peak	Sample:17052204, Compound:PF, RT:30.157	1
Pre modification peak	Sample:17052204, Compound:HF, RT:37.402	1
Pre modification peak	Sample:17052204, Compound:HF, RT:37.402	1
Pre modification peak	Sample:17052204, Compound:HPD, RT:40.000	1
Pre modification peak	Sample:17052206, Compound:OF, RT:47.447	3
Pre modification peak	Sample:17052206, Compound:TF, RT:23.523	3
Pre modification peak	Sample:17052206, Compound:TF, RT:23.538	3
Pre modification peak	Sample:17052206, Compound:HF, RT:33.620	3
Pre modification peak	Sample:17052206, Compound:HF, RT:37.369	3
Pre modification peak	Sample:17052206, Compound:HPF, RT:40.274	3
Pre modification peak	Sample:17052206, Compound:HPF, RT:42.170	3
Pre modification peak	Sample:17052206, Compound:HD, RT:36.371	3
Pre modification peak	Sample:17052207, Compound:OF, RT:47.375	4
Pre modification peak	Sample:17052207, Compound:OF, RT:47.402	4
Pre modification peak	Sample:17052207, Compound:OF, RT:47.402	4
Pre modification peak	Sample:17052207, Compound:PF, RT:30.146	4
Pre modification peak	Sample:17052207, Compound:HF, RT:35.144	4
Pre modification peak	Sample:17052207, Compound:HF, RT:37.380	4
Pre modification peak	Sample:17052207, Compound:PD, RT:31.735	4
Pre modification peak	Sample:17052207, Compound:HD, RT:36.941	4
Pre modification peak	Sample:17052208, Compound:OF, RT:47.394	5
Pre modification peak	Sample:17052208, Compound:OF, RT:47.394	5
Pre modification peak	Sample:17052208, Compound:OF, RT:47.394	5
Pre modification peak	Sample:17052208, Compound:PF, RT:31.461	5
Pre modification peak	Sample:17052209, Compound:OD, RT:47.232	6
Pre modification peak	Sample:17052209, Compound:TF, RT:23.553	6
Pre modification peak	Sample:17052209, Compound:TF, RT:23.658	6
Pre modification peak	Sample:17052209, Compound:TF, RT:23.538	6
Pre modification peak	Sample:17052209, Compound:TF, RT:25.765	6
Pre modification peak	Sample:17052209, Compound:PF, RT:28.984	6
Pre modification peak	Sample:17052209, Compound:HF, RT:33.654	6
Pre modification peak	Sample:17052209, Compound:PD, RT:29.039	6
Pre modification peak	Sample:17052209, Compound:HPD, RT:41.359	6
Pre modification peak	Sample:17052209, Compound:HPD, RT:41.359	6
Pre modification peak	Sample:17052210, Compound:OF, RT:47.358	7
Pre modification peak	Sample:17052210, Compound:HPF, RT:39.419	7
Pre modification peak	Sample:17052210, Compound:HPF, RT:39.408	7
Pre modification peak	Sample:17052211, Compound:OD, RT:47.079	8
Pre modification peak	Sample:17052212, Compound:OD, RT:47.107	9
Pre modification peak	Sample:17052212, Compound:OD, RT:47.071	9
Peak modified	Sample:17052204, Compound:OF, RT:47.421	1
Peak modified	Sample:17052204, Compound:OF, RT:47.411	1
Peak modified	Sample:17052204, Compound:TF, RT:25.839	1
Peak modified	Sample:17052204, Compound:PF, RT:30.157	1
Peak modified	Sample:17052204, Compound:HF, RT:37.402	1
Peak modified	Sample:17052204, Compound:HF, RT:37.402	1754 of 922
Peak modified	Sample:17052204, Compound:HPD, RT:40.000	1

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 11:29:12 Pacific Daylight Time

Event	Details	Sample ID
Process Extract		
Process Integrate		
Process Quantify		
Dataset Created		
Dataset Saved	Saved to 'C:\MassLynx\Dioxin.pro\170522D2.qld'	
Pre modification peak	Sample:17052215, Compound:OF, RT:47.402	1
Peak modified	Sample:17052215, Compound:OF, RT:47.402	1
Pre modification peak	Sample:17052215, Compound:OF, RT:47.384	1
Peak modified	Sample:17052215, Compound:OF, RT:47.384	1
Peak deleted	Sample:17052215, Compound:TF, RT:23.762	1
Peak deleted	Sample:17052215, Compound:TF, RT:23.538	1
Peak deleted	Sample:17052215, Compound:TF, RT:24.031	1
Peak deleted	Sample:17052215, Compound:TF, RT:25.092	1
Peak deleted	Sample:17052215, Compound:TF, RT:24.882	1
Peak deleted	Sample:17052215, Compound:TF, RT:26.138	1
Peak deleted	Sample:17052215, Compound:TF, RT:25.779	1
Peak deleted	Sample:17052215, Compound:TF, RT:27.392	1
Pre modification peak	Sample:17052215, Compound:PF, RT:28.972	1
Peak modified	Sample:17052215, Compound:PF, RT:28.972	1
Peak deleted	Sample:17052215, Compound:PF, RT:30.156	1
Peak deleted	Sample:17052215, Compound:PF, RT:30.112	1
Peak deleted	Sample:17052215, Compound:PF, RT:31.461	1
Peak deleted	Sample:17052215, Compound:HF, RT:35.154	1
Peak deleted	Sample:17052215, Compound:HF, RT:37.369	1
Peak deleted	Sample:17052215, Compound:HF, RT:36.240	1
Pre modification peak	Sample:17052215, Compound:HPF, RT:39.418	1
Peak modified	Sample:17052215, Compound:HPF, RT:39.418	1
Pre modification peak	Sample:17052215, Compound:HPF, RT:39.429	1
Peak modified	Sample:17052215, Compound:HPF, RT:39.429	1
Peak deleted	Sample:17052215, Compound:HPF, RT:40.262	1
Peak deleted	Sample:17052215, Compound:TD, RT:24.255	1
Peak deleted	Sample:17052215, Compound:TD, RT:24.957	1
Peak deleted	Sample:17052215, Compound:TD, RT:26.735	1
Peak deleted	Sample:17052215, Compound:TD, RT:26.631	1
Peak deleted	Sample:17052215, Compound:TD, RT:26.302	1
Peak deleted	Sample:17052215, Compound:TD, RT:26.272	1
Peak deleted	Sample:17052215, Compound:PD, RT:30.343	1
Pre modification peak	Sample:17052215, Compound:HD, RT:34.869	1
Peak modified	Sample:17052215, Compound:HD, RT:34.869	1
Pre modification peak	Sample:17052216, Compound:OF, RT:47.392	2
Peak modified	Sample:17052216, Compound:OF, RT:47.392	2
Pre modification peak	Sample:17052216, Compound:OF, RT:47.374	2
Peak modified	Sample:17052216, Compound:OF, RT:47.374	2
Pre modification peak	Sample:17052216, Compound:OD, RT:47.114	2
Peak modified	Sample:17052216, Compound:OD, RT:47.114	2
Pre modification peak	Sample:17052216, Compound:OD, RT:47.087	2
Peak modified	Sample:17052216, Compound:OD, RT:47.087	2
Peak deleted	Sample:17052216, Compound:TF, RT:25.092	2
Peak deleted	Sample:17052216, Compound:PF, RT:30.146	2
Pre modification peak	Sample:17052216, Compound:HF, RT:37.390	2
Peak modified	Sample:17052216, Compound:HF, RT:37.390	2
Pre modification peak	Sample:17052216, Compound:HPD, RT:39.977	2
Peak modified	Sample:17052216, Compound:HPD, RT:39.977	2

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 11:29:12 Pacific Daylight Time

Event	Details	Sample ID
Pre modification peak	Sample:17052217, Compound:OF, RT:47.484	3
Peak modified	Sample:17052217, Compound:OF, RT:47.484	3
Pre modification peak	Sample:17052217, Compound:OF, RT:47.448	3
Peak modified	Sample:17052217, Compound:OF, RT:47.448	3
Pre modification peak	Sample:17052217, Compound:TF, RT:25.809	3
Peak modified	Sample:17052217, Compound:TF, RT:25.809	3
Pre modification peak	Sample:17052217, Compound:TF, RT:25.809	3
Peak modified	Sample:17052217, Compound:TF, RT:25.809	3
Peak deleted	Sample:17052217, Compound:TF, RT:27.393	3
Peak deleted	Sample:17052217, Compound:TF, RT:26.392	3
Pre modification peak	Sample:17052217, Compound:PF, RT:28.853	3
Peak modified	Sample:17052217, Compound:PF, RT:28.853	3
Peak deleted	Sample:17052217, Compound:PF, RT:29.170	3
Peak deleted	Sample:17052217, Compound:PF, RT:29.225	3
Pre modification peak	Sample:17052217, Compound:PF, RT:29.795	3
Peak modified	Sample:17052217, Compound:PF, RT:29.795	3
Peak deleted	Sample:17052217, Compound:PF, RT:30.518	3
Pre modification peak	Sample:17052217, Compound:PF, RT:30.343	3
Peak modified	Sample:17052217, Compound:PF, RT:30.343	3
Peak deleted	Sample:17052217, Compound:HF, RT:34.980	3
Peak deleted	Sample:17052217, Compound:HF, RT:33.829	3
Pre modification peak	Sample:17052217, Compound:PD, RT:29.006	3
Peak modified	Sample:17052217, Compound:PD, RT:29.006	3
Pre modification peak	Sample:17052217, Compound:PD, RT:30.135	3
Peak modified	Sample:17052217, Compound:PD, RT:30.135	3
Pre modification peak	Sample:17052218, Compound:OF, RT:47.447	4
Peak modified	Sample:17052218, Compound:OF, RT:47.447	4
Pre modification peak	Sample:17052218, Compound:OF, RT:47.484	4
Peak modified	Sample:17052218, Compound:OF, RT:47.484	4
Pre modification peak	Sample:17052218, Compound:TF, RT:23.538	4
Peak modified	Sample:17052218, Compound:TF, RT:23.538	4
Peak deleted	Sample:17052218, Compound:TF, RT:24.554	4
Peak deleted	Sample:17052218, Compound:TF, RT:25.092	4
Pre modification peak	Sample:17052218, Compound:TF, RT:25.077	4
Peak modified	Sample:17052218, Compound:TF, RT:25.077	4
Peak added	Sample:17052218, Compound:TF, RT:25.092	4
Peak added	Sample:17052218, Compound:TF, RT:25.077	4
Pre modification peak	Sample:17052218, Compound:PF, RT:30.146	4
Peak modified	Sample:17052218, Compound:PF, RT:30.146	4
Pre modification peak	Sample:17052218, Compound:HF, RT:33.632	4
Peak modified	Sample:17052218, Compound:HF, RT:33.632	4
Peak deleted	Sample:17052218, Compound:HF, RT:34.991	4
Pre modification peak	Sample:17052218, Compound:HF, RT:34.486	4
Peak modified	Sample:17052218, Compound:HF, RT:34.486	4
Pre modification peak	Sample:17052218, Compound:HF, RT:35.166	4
Peak modified	Sample:17052218, Compound:HF, RT:35.166	4
Pre modification peak	Sample:17052218, Compound:HF, RT:34.498	4
Peak modified	Sample:17052218, Compound:HF, RT:34.498	4
Peak added	Sample:17052218, Compound:HF, RT:35.122	4
Peak added	Sample:17052218, Compound:HF, RT:35.144	4
Pre modification peak	Sample:17052218, Compound:HF, RT:36.218	4
Peak modified	Sample:17052218, Compound:HF, RT:36.218	4756 of 922
Pre modification peak	Sample:17052218, Compound:HF, RT:37.402	4

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 11:29:12 Pacific Daylight Time

Event	Details	Sample ID
Peak modified	Sample:17052218, Compound:HF, RT:37.402	4
Peak deleted	Sample:17052218, Compound:HPF, RT:39.550	4
Peak deleted	Sample:17052218, Compound:HPF, RT:42.192	4
Peak deleted	Sample:17052218, Compound:TD, RT:24.271	4
Pre modification peak	Sample:17052218, Compound:TD, RT:24.017	4
Peak modified	Sample:17052218, Compound:TD, RT:24.017	4
Peak deleted	Sample:17052218, Compound:TD, RT:24.973	4
Peak deleted	Sample:17052218, Compound:TD, RT:25.959	4
Peak deleted	Sample:17052218, Compound:TD, RT:25.824	4
Pre modification peak	Sample:17052218, Compound:PD, RT:30.124	4
Peak modified	Sample:17052218, Compound:PD, RT:30.124	4
Pre modification peak	Sample:17052218, Compound:PD, RT:30.113	4
Peak modified	Sample:17052218, Compound:PD, RT:30.113	4
Peak deleted	Sample:17052218, Compound:PD, RT:29.927	4
Pre modification peak	Sample:17052218, Compound:PD, RT:30.376	4
Peak modified	Sample:17052218, Compound:PD, RT:30.376	4
Pre modification peak	Sample:17052218, Compound:PD, RT:31.713	4
Peak modified	Sample:17052218, Compound:PD, RT:31.713	4
Pre modification peak	Sample:17052218, Compound:HD, RT:34.245	4
Peak modified	Sample:17052218, Compound:HD, RT:34.245	4
Pre modification peak	Sample:17052218, Compound:HD, RT:35.429	4
Peak modified	Sample:17052218, Compound:HD, RT:35.429	4
Pre modification peak	Sample:17052219, Compound:OD, RT:47.106	5
Peak modified	Sample:17052219, Compound:OD, RT:47.106	5
Pre modification peak	Sample:17052219, Compound:OD, RT:47.115	5
Peak modified	Sample:17052219, Compound:OD, RT:47.115	5
Peak deleted	Sample:17052219, Compound:TF, RT:26.227	5
Peak deleted	Sample:17052219, Compound:TF, RT:26.003	5
Pre modification peak	Sample:17052219, Compound:HPD, RT:39.977	5
Peak modified	Sample:17052219, Compound:HPD, RT:39.977	5
Pre modification peak	Sample:17052220, Compound:OF, RT:47.430	6
Peak modified	Sample:17052220, Compound:OF, RT:47.430	6
Pre modification peak	Sample:17052220, Compound:OF, RT:47.412	6
Peak modified	Sample:17052220, Compound:OF, RT:47.412	6
Pre modification peak	Sample:17052220, Compound:OD, RT:47.107	6
Peak modified	Sample:17052220, Compound:OD, RT:47.107	6
Peak deleted	Sample:17052220, Compound:PF, RT:31.472	6
Pre modification peak	Sample:17052220, Compound:HPF, RT:40.241	6
Peak modified	Sample:17052220, Compound:HPF, RT:40.241	6
Pre modification peak	Sample:17052220, Compound:HPF, RT:39.397	6
Peak modified	Sample:17052220, Compound:HPF, RT:39.397	6
Peak deleted	Sample:17052220, Compound:HD, RT:36.942	6
Peak deleted	Sample:17052220, Compound:HD, RT:36.382	6
Pre modification peak	Sample:17052220, Compound:HD, RT:36.371	6
Peak modified	Sample:17052220, Compound:HD, RT:36.371	6
Pre modification peak	Sample:17052221, Compound:OF, RT:47.349	7
Peak modified	Sample:17052221, Compound:OF, RT:47.349	7
Pre modification peak	Sample:17052221, Compound:OF, RT:47.385	7
Peak modified	Sample:17052221, Compound:OF, RT:47.385	7
Peak deleted	Sample:17052221, Compound:TF, RT:25.989	7
Peak deleted	Sample:17052221, Compound:TF, RT:25.107	7
Pre modification peak	Sample:17052221, Compound:HPF, RT:39.419	757 of 922
Peak modified	Sample:17052221, Compound:HPF, RT:39.419	7

Dataset: C:\MassLynx\Dioxin.pro\170522D2.qld
 Last Altered: Tuesday, May 23, 2017 11:28:07 Pacific Daylight Time
 Printed: Tuesday, May 23, 2017 11:29:12 Pacific Daylight Time

Event	Details	Sample ID
Peak deleted	Sample:17052221, Compound:TD, RT:26.616	7
Peak deleted	Sample:17052221, Compound:PD, RT:29.017	7
Pre modification peak	Sample:17052221, Compound:HD, RT:36.898	7
Peak modified	Sample:17052221, Compound:HD, RT:36.898	7
Pre modification peak	Sample:17052222, Compound:OD, RT:47.079	8
Peak modified	Sample:17052222, Compound:OD, RT:47.079	8
Pre modification peak	Sample:17052222, Compound:OD, RT:47.115	8
Peak modified	Sample:17052222, Compound:OD, RT:47.115	8
Pre modification peak	Sample:17052222, Compound:OD, RT:47.115	8
Peak modified	Sample:17052222, Compound:OD, RT:47.115	8
Pre modification peak	Sample:17052222, Compound:HF, RT:37.357	8
Peak modified	Sample:17052222, Compound:HF, RT:37.357	8
Pre modification peak	Sample:17052222, Compound:HPD, RT:39.988	8
Peak modified	Sample:17052222, Compound:HPD, RT:39.988	8
Pre modification peak	Sample:17052223, Compound:OD, RT:47.089	9
Peak modified	Sample:17052223, Compound:OD, RT:47.089	9
Peak deleted	Sample:17052223, Compound:TF, RT:22.507	9
Peak deleted	Sample:17052223, Compound:TF, RT:24.659	9
Peak deleted	Sample:17052223, Compound:TF, RT:23.748	9
Peak deleted	Sample:17052223, Compound:TF, RT:23.344	9
Peak deleted	Sample:17052223, Compound:TF, RT:24.719	9
Pre modification peak	Sample:17052223, Compound:PF, RT:28.962	9
Peak modified	Sample:17052223, Compound:PF, RT:28.962	9
Pre modification peak	Sample:17052223, Compound:HF, RT:33.632	9
Peak modified	Sample:17052223, Compound:HF, RT:33.632	9
Peak deleted	Sample:17052223, Compound:TD, RT:24.017	9
Peak deleted	Sample:17052223, Compound:HD, RT:36.921	9
Peak deleted	Sample:17052223, Compound:HD, RT:35.375	9
Dataset Saved	Saved to 'C:\MassLynx\Dioxin.pro\170522D2.qld'	



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Sequence: SFE0273

Instrument: AUTOSPEC01

Calibration: AE00055

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ISC01	SFE0273-RES1	17051803	Solid	05/18/17 17:36
CSL	SFE0273-CAL1	17051805	Solid	05/18/17 19:22
CS1	SFE0273-CAL2	17051806	Solid	05/18/17 20:16
CS2	SFE0273-CAL3	17051807	Solid	05/18/17 21:09
CS3	SFE0273-CAL4	17051808	Solid	05/18/17 22:02
CS4	SFE0273-CAL5	17051809	Solid	05/18/17 22:55
CS5	SFE0273-CAL6	17051810	Solid	05/18/17 23:49
ICV	SFE0273-SCV1	17051811	Solid	05/19/17 00:42
ISC02	SFE0273-RES2	17051812	Solid	05/19/17 01:36



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory: Analytical Resources, Inc.
 Client: Anchor QEA, LLC
 Sequence: SFE0273
 Sample ID: SFE0273-SCV1
 File ID: 17051811

SDG: 17E0012
 Project: Port Gamble Shellfish Monitoring
 Instrument: AUTOSPEC01
 Calibration: AE00055
 Analyzed: 05/19/17 00:42

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	99.9	0 - 200	25.9735	25.9809	-0.0074	N/A	
13C12-2,3,7,8-TCDD	100.00	100	0 - 200	26.6008	26.61337	-0.0126	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	99.7	0 - 200	30.1017	30.1144	-0.0127	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	99.2	0 - 200	31.45	31.45532	-0.0053	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	99.3	0 - 200	31.6912	31.70743	-0.0162	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	101	0 - 200	35.111	35.12362	-0.0126	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	98.6	0 - 200	35.2643	35.26975	-0.0055	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	100	0 - 200	36.207	36.21603	-0.0090	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	97.4	0 - 200	37.3577	37.36327	-0.0056	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	101	0 - 200	36.3385	36.34938	-0.0109	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	99.9	0 - 200	36.47	36.4754	-0.0054	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	98.4	0 - 200	39.4073	39.41285	-0.0055	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	98.0	0 - 200	42.0928	42.10002	-0.0072	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	98.9	0 - 200	41.205	41.21587	-0.0109	N/A	
13C12-OCDD	200.00	95.5	0 - 200	47.0705	47.08662	-0.0161	N/A	
37C14-2,3,7,8-TCDD	10.000	110	0 - 200	26.6158	26.6333	-0.0175	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory: Analytical Resources, Inc.
 Client: Anchor QEA, LLC
 Sequence: SFE0219
 Sample ID: SFE0219-ICV1
 File ID: 17052202

SDG: 17E0012
 Project: Port Gamble Shellfish Monitoring
 Instrument: AUTOSPEC01
 Calibration: AE00055
 Analyzed: 05/22/17 10:12

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	100	70 - 130	25.9885	25.9809	0.0076	N/A	
13C12-2,3,7,8-TCDD	100.00	100	70 - 130	26.631	26.61337	0.0176	N/A	
13C12-1,2,3,7,8-PeCDF	100.00	88.7	70 - 130	30.1237	30.1144	0.0093	N/A	
13C12-2,3,4,7,8-PeCDF	100.00	90.7	70 - 130	31.4718	31.45532	0.0165	N/A	
13C12-1,2,3,7,8-PeCDD	100.00	90.0	70 - 130	31.713	31.70743	0.0056	N/A	
13C12-1,2,3,4,7,8-HxCDF	100.00	98.0	70 - 130	35.1328	35.12362	0.0092	N/A	
13C12-1,2,3,6,7,8-HxCDF	100.00	98.0	70 - 130	35.2752	35.26975	0.0054	N/A	
13C12-2,3,4,6,7,8-HxCDF	100.00	96.5	70 - 130	36.2178	36.21603	0.0018	N/A	
13C12-1,2,3,7,8,9-HxCDF	100.00	97.9	70 - 130	37.3687	37.36327	0.0054	N/A	
13C12-1,2,3,4,7,8-HxCDD	100.00	100	70 - 130	36.3602	36.34938	0.0108	N/A	
13C12-1,2,3,6,7,8-HxCDD	100.00	101	70 - 130	36.4808	36.4754	0.0054	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	100.00	98.4	70 - 130	39.4182	39.41285	0.0053	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	100.00	99.1	70 - 130	42.1037	42.10002	0.0037	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	100.00	102	70 - 130	41.2158	41.21587	-0.0001	N/A	
13C12-OCDD	200.00	97.3	70 - 130	47.088	47.08662	0.0014	N/A	
37C14-2,3,7,8-TCDD	10.000	100	0 - 200	26.646	26.6333	0.0127	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory: Analytical Resources, Inc.
 Client: Anchor QEA, LLC
 Sequence: SFE0219
 Sample ID: BF0233-BLK1
 File ID: 17052204

SDG: 17E0012
 Project: Port Gamble Shellfish Monitoring
 Instrument: AUTOSPEC01
 Calibration: AE00055
 Analyzed: 05/22/17 12:05

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	76.2	24 - 169	25.9885	25.9809	0.0076	N/A	
13C12-2,3,7,8-TCDD	200.00	74.0	25 - 164	26.631	26.61337	0.0176	N/A	
13C12-1,2,3,7,8-PeCDF	200.00	66.6	24 - 185	30.1237	30.1144	0.0093	N/A	
13C12-2,3,4,7,8-PeCDF	200.00	69.9	21 - 178	31.472	31.45532	0.0167	N/A	
13C12-1,2,3,7,8-PeCDD	200.00	69.5	25 - 181	31.7242	31.70743	0.0168	N/A	
13C12-1,2,3,4,7,8-HxCDF	200.00	74.0	26 - 152	35.133	35.12362	0.0094	N/A	
13C12-1,2,3,6,7,8-HxCDF	200.00	75.3	26 - 123	35.2865	35.26975	0.0167	N/A	
13C12-2,3,4,6,7,8-HxCDF	200.00	76.2	28 - 136	36.2292	36.21603	0.0132	N/A	
13C12-1,2,3,7,8,9-HxCDF	200.00	66.4	29 - 147	37.369	37.36327	0.0057	N/A	
13C12-1,2,3,4,7,8-HxCDD	200.00	81.2	32 - 141	36.3607	36.34938	0.0113	N/A	
13C12-1,2,3,6,7,8-HxCDD	200.00	80.4	28 - 130	36.492	36.4754	0.0166	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	200.00	68.7	28 - 143	39.4405	39.41285	0.0277	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	200.00	72.2	26 - 138	42.137	42.10002	0.0370	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	200.00	83.7	23 - 140	41.2492	41.21587	0.0333	N/A	
13C12-OCDD	400.00	74.6	17 - 157	47.1243	47.08662	0.0377	N/A	
37C14-2,3,7,8-TCDD	80.000	88.1	35 - 197	26.646	26.6333	0.0127	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory: Analytical Resources, Inc.
 Client: Anchor QEA, LLC
 Sequence: SFE0219
 Sample ID: BE0233-BS1
 File ID: 17052205

SDG: 17E0012
 Project: Port Gamble Shellfish Monitoring
 Instrument: AUTOSPEC01
 Calibration: AE00055
 Analyzed: 05/22/17 12:57

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	78.8	24 - 169	25.9737	25.9809	-0.0072	N/A	
13C12-2,3,7,8-TCDD	200.00	79.3	25 - 164	26.6162	26.61337	0.0028	N/A	
13C12-1,2,3,7,8-PeCDF	200.00	70.0	24 - 185	30.113	30.1144	-0.0014	N/A	
13C12-2,3,4,7,8-PeCDF	200.00	72.3	21 - 178	31.4613	31.45532	0.0060	N/A	
13C12-1,2,3,7,8-PeCDD	200.00	73.1	25 - 181	31.7023	31.70743	-0.0051	N/A	
13C12-1,2,3,4,7,8-HxCDF	200.00	74.2	26 - 152	35.1222	35.12362	-0.0014	N/A	
13C12-1,2,3,6,7,8-HxCDF	200.00	73.7	26 - 123	35.2757	35.26975	0.0059	N/A	
13C12-2,3,4,6,7,8-HxCDF	200.00	75.7	28 - 136	36.2183	36.21603	0.0023	N/A	
13C12-1,2,3,7,8,9-HxCDF	200.00	70.7	29 - 147	37.369	37.36327	0.0057	N/A	
13C12-1,2,3,4,7,8-HxCDD	200.00	80.0	32 - 141	36.3498	36.34938	0.0004	N/A	
13C12-1,2,3,6,7,8-HxCDD	200.00	75.9	28 - 130	36.4813	36.4754	0.0059	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	200.00	66.5	28 - 143	39.4295	39.41285	0.0166	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	200.00	73.4	26 - 138	42.1258	42.10002	0.0258	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	200.00	81.1	23 - 140	41.238	41.21587	0.0221	N/A	
13C12-OCDD	400.00	75.4	17 - 157	47.1153	47.08662	0.0287	N/A	
37C14-2,3,7,8-TCDD	80.000	88.4	35 - 197	26.631	26.6333	-0.0023	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory: Analytical Resources, Inc.
 Client: Anchor QEA, LLC
 Sequence: SFE0219
 Sample ID: 17E0012-01
 File ID: 17052218

SDG: 17E0012
 Project: Port Gamble Shellfish Monitoring
 Instrument: AUTOSPEC01
 Calibration: AE00055
 Analyzed: 05/23/17 00:42

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	61.6	24 - 169	25.9737	25.9809	-0.0072	N/A	
13C12-2,3,7,8-TCDD	199.60	61.7	25 - 164	26.6012	26.61337	-0.0122	N/A	
13C12-1,2,3,7,8-PeCDF	199.60	53.4	24 - 185	30.1132	30.1144	-0.0012	N/A	
13C12-2,3,4,7,8-PeCDF	199.60	55.3	21 - 178	31.4505	31.45532	-0.0048	N/A	
13C12-1,2,3,7,8-PeCDD	199.60	55.9	25 - 181	31.7025	31.70743	-0.0049	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.60	56.1	26 - 152	35.1332	35.12362	0.0096	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.60	52.0	26 - 123	35.2757	35.26975	0.0059	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.60	56.9	28 - 136	36.2293	36.21603	0.0133	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.60	54.9	29 - 147	37.38	37.36327	0.0167	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.60	57.0	32 - 141	36.3717	36.34938	0.0223	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.60	57.2	28 - 130	36.4923	36.4754	0.0169	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.60	50.7	28 - 143	39.4628	39.41285	0.0500	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.60	53.4	26 - 138	42.192	42.10002	0.0920	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.60	57.5	23 - 140	41.3042	41.21587	0.0883	N/A	
13C12-OCDD	399.20	53.2	17 - 157	47.1783	47.08662	0.0917	N/A	
37C14-2,3,7,8-TCDD	79.840	92.8	35 - 197	26.6312	26.6333	-0.0021	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory: Analytical Resources, Inc.
 Client: Anchor QEA, LLC
 Sequence: SFE0219
 Sample ID: 17E0012-02
 File ID: 17052219

SDG: 17E0012
 Project: Port Gamble Shellfish Monitoring
 Instrument: AUTOSPEC01
 Calibration: AE00055
 Analyzed: 05/23/17 01:35

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	199.20	48.2	24 - 169	25.9883	25.9809	0.0074	N/A	
13C12-2,3,7,8-TCDD	199.20	46.7	25 - 164	26.6158	26.61337	0.0024	N/A	
13C12-1,2,3,7,8-PeCDF	199.20	39.8	24 - 185	30.1127	30.1144	-0.0017	N/A	
13C12-2,3,4,7,8-PeCDF	199.20	41.1	21 - 178	31.4608	31.45532	0.0055	N/A	
13C12-1,2,3,7,8-PeCDD	199.20	40.8	25 - 181	31.713	31.70743	0.0056	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.20	43.0	26 - 152	35.1217	35.12362	-0.0019	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.20	43.4	26 - 123	35.2752	35.26975	0.0054	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.20	42.5	28 - 136	36.2178	36.21603	0.0018	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.20	41.4	29 - 147	37.3687	37.36327	0.0054	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.20	46.1	32 - 141	36.3493	36.34938	-0.0001	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.20	44.8	28 - 130	36.4808	36.4754	0.0054	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.20	39.6	28 - 143	39.4183	39.41285	0.0055	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.20	40.8	26 - 138	42.1037	42.10002	0.0037	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.20	43.9	23 - 140	41.2158	41.21587	-0.0001	N/A	
13C12-OCDD	398.41	34.6	17 - 157	47.088	47.08662	0.0014	N/A	
37C14-2,3,7,8-TCDD	79.681	92.0	35 - 197	26.6307	26.6333	-0.0026	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory: Analytical Resources, Inc.
 Client: Anchor QEA, LLC
 Sequence: SFE0219
 Sample ID: 17E0012-03
 File ID: 17052220

SDG: 17E0012
 Project: Port Gamble Shellfish Monitoring
 Instrument: AUTOSPEC01
 Calibration: AE00055
 Analyzed: 05/23/17 02:28

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	199.01	42.2	24 - 169	25.9733	25.9809	-0.0076	N/A	
13C12-2,3,7,8-TCDD	199.01	42.1	25 - 164	26.6158	26.61337	0.0024	N/A	
13C12-1,2,3,7,8-PeCDF	199.01	35.3	24 - 185	30.1127	30.1144	-0.0017	N/A	
13C12-2,3,4,7,8-PeCDF	199.01	36.8	21 - 178	31.4608	31.45532	0.0055	N/A	
13C12-1,2,3,7,8-PeCDD	199.01	37.6	25 - 181	31.702	31.70743	-0.0054	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.01	40.4	26 - 152	35.1218	35.12362	-0.0018	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.01	40.5	26 - 123	35.2753	35.26975	0.0055	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.01	40.9	28 - 136	36.218	36.21603	0.0020	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.01	37.2	29 - 147	37.369	37.36327	0.0057	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.01	44.9	32 - 141	36.3495	36.34938	0.0001	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.01	42.0	28 - 130	36.47	36.4754	-0.0054	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.01	36.8	28 - 143	39.4188	39.41285	0.0059	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.01	36.9	26 - 138	42.1045	42.10002	0.0045	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.01	41.9	23 - 140	41.2167	41.21587	0.0008	N/A	
13C12-OCDD	398.01	31.8	17 - 157	47.0892	47.08662	0.0026	N/A	
37C14-2,3,7,8-TCDD	79.602	93.7	35 - 197	26.6307	26.6333	-0.0026	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory: Analytical Resources, Inc.
 Client: Anchor QEA, LLC
 Sequence: SFE0219
 Sample ID: 17E0012-04
 File ID: 17052221

SDG: 17E0012
 Project: Port Gamble Shellfish Monitoring
 Instrument: AUTOSPEC01
 Calibration: AE00055
 Analyzed: 05/23/17 03:22

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	199.80	29.3	24 - 169	25.9735	25.9809	-0.0074	N/A	
13C12-2,3,7,8-TCDD	199.80	28.5	25 - 164	26.601	26.61337	-0.0124	N/A	
13C12-1,2,3,7,8-PeCDF	199.80	23.3	24 - 185	30.102	30.1144	-0.0124	N/A	*
13C12-2,3,4,7,8-PeCDF	199.80	25.4	21 - 178	31.4502	31.45532	-0.0051	N/A	
13C12-1,2,3,7,8-PeCDD	199.80	25.5	25 - 181	31.7022	31.70743	-0.0052	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.80	32.0	26 - 152	35.122	35.12362	-0.0016	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.80	32.3	26 - 123	35.2645	35.26975	-0.0053	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.80	29.5	28 - 136	36.2072	36.21603	-0.0088	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.80	24.0	29 - 147	37.3582	37.36327	-0.0051	N/A	*
13C12-1,2,3,4,7,8-HxCDD	199.80	34.0	32 - 141	36.3388	36.34938	-0.0106	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.80	33.1	28 - 130	36.4703	36.4754	-0.0051	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.80	25.9	28 - 143	39.4078	39.41285	-0.0050	N/A	*
13C12-1,2,3,4,7,8,9-HpCDF	199.80	23.6	26 - 138	42.0932	42.10002	-0.0068	N/A	*
13C12-1,2,3,4,6,7,8-HpCDD	199.80	27.2	23 - 140	41.2053	41.21587	-0.0106	N/A	
13C12-OCDD	399.60	18.7	17 - 157	47.0798	47.08662	-0.0068	N/A	
37C14-2,3,7,8-TCDD	79.920	78.4	35 - 197	26.631	26.6333	-0.0023	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory: Analytical Resources, Inc.
 Client: Anchor QEA, LLC
 Sequence: SFE0219
 Sample ID: 17E0012-05
 File ID: 17052222

SDG: 17E0012
 Project: Port Gamble Shellfish Monitoring
 Instrument: AUTOSPEC01
 Calibration: AE00055
 Analyzed: 05/23/17 04:15

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	199.20	38.0	24 - 169	25.9735	25.9809	-0.0074	N/A	
13C12-2,3,7,8-TCDD	199.20	38.6	25 - 164	26.601	26.61337	-0.0124	N/A	
13C12-1,2,3,7,8-PeCDF	199.20	32.1	24 - 185	30.1017	30.1144	-0.0127	N/A	
13C12-2,3,4,7,8-PeCDF	199.20	33.0	21 - 178	31.4497	31.45532	-0.0056	N/A	
13C12-1,2,3,7,8-PeCDD	199.20	32.6	25 - 181	31.7018	31.70743	-0.0056	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.20	36.4	26 - 152	35.1213	35.12362	-0.0023	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.20	36.9	26 - 123	35.2638	35.26975	-0.0059	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.20	36.3	28 - 136	36.2065	36.21603	-0.0095	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.20	33.3	29 - 147	37.3575	37.36327	-0.0058	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.20	39.6	32 - 141	36.338	36.34938	-0.0114	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.20	39.1	28 - 130	36.4695	36.4754	-0.0059	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.20	33.1	28 - 143	39.4072	39.41285	-0.0056	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.20	32.7	26 - 138	42.0927	42.10002	-0.0073	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.20	37.4	23 - 140	41.2048	41.21587	-0.0111	N/A	
13C12-OCDD	398.41	28.6	17 - 157	47.0702	47.08662	-0.0164	N/A	
37C14-2,3,7,8-TCDD	79.681	89.5	35 - 197	26.6308	26.6333	-0.0025	N/A	

* Values outside of QC limits



SURROGATE RECOVERY AND RT SUMMARY

EPA 1613B

Laboratory: Analytical Resources, Inc.
 Client: Anchor QEA, LLC
 Sequence: SFE0219
 Sample ID: 17E0012-06
 File ID: 17052223

SDG: 17E0012
 Project: Port Gamble Shellfish Monitoring
 Instrument: AUTOSPEC01
 Calibration: AE00055
 Analyzed: 05/23/17 05:08

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	199.01	58.8	24 - 169	25.9738	25.9809	-0.0071	N/A	
13C12-2,3,7,8-TCDD	199.01	58.4	25 - 164	26.6015	26.61337	-0.0119	N/A	
13C12-1,2,3,7,8-PeCDF	199.01	47.2	24 - 185	30.1025	30.1144	-0.0119	N/A	
13C12-2,3,4,7,8-PeCDF	199.01	50.3	21 - 178	31.4398	31.45532	-0.0155	N/A	
13C12-1,2,3,7,8-PeCDD	199.01	49.9	25 - 181	31.692	31.70743	-0.0154	N/A	
13C12-1,2,3,4,7,8-HxCDF	199.01	52.4	26 - 152	35.112	35.12362	-0.0116	N/A	
13C12-1,2,3,6,7,8-HxCDF	199.01	49.1	26 - 123	35.2545	35.26975	-0.0153	N/A	
13C12-2,3,4,6,7,8-HxCDF	199.01	52.6	28 - 136	36.208	36.21603	-0.0080	N/A	
13C12-1,2,3,7,8,9-HxCDF	199.01	52.5	29 - 147	37.348	37.36327	-0.0153	N/A	
13C12-1,2,3,4,7,8-HxCDD	199.01	58.7	32 - 141	36.3397	36.34938	-0.0097	N/A	
13C12-1,2,3,6,7,8-HxCDD	199.01	53.9	28 - 130	36.4602	36.4754	-0.0152	N/A	
13C12-1,2,3,4,6,7,8-HpCDF	199.01	47.3	28 - 143	39.3975	39.41285	-0.0153	N/A	
13C12-1,2,3,4,7,8,9-HpCDF	199.01	47.6	26 - 138	42.0937	42.10002	-0.0063	N/A	
13C12-1,2,3,4,6,7,8-HpCDD	199.01	53.2	23 - 140	41.2058	41.21587	-0.0101	N/A	
13C12-OCDD	398.01	40.0	17 - 157	47.0713	47.08662	-0.0153	N/A	
37C14-2,3,7,8-TCDD	79.602	97.0	35 - 197	26.6163	26.6333	-0.0170	N/A	

* Values outside of QC limits



HOLDING TIME SUMMARY

Analysis: EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

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-PJ-OYS-COC-170427 17E0012-01	04/27/17 13:00	04/29/17 10:00	05/09/17 16:05	12	365	05/23/17 00:42	13	365	
PG-PJ-COC-COC-170427 17E0012-02	04/27/17 12:45	04/29/17 10:00	05/09/17 16:05	12	365	05/23/17 01:35	13	365	
PG-PJ-LTN-COC-170427 17E0012-03	04/27/17 13:30	04/29/17 10:00	05/09/17 16:05	12	365	05/23/17 02:28	13	365	
PG-PJ-MAN-COC-170427 17E0012-04	04/27/17 12:00	04/29/17 10:00	05/09/17 16:05	12	365	05/23/17 03:22	13	365	
PG-PJ-HC-COC-170428 17E0012-05	04/28/17 13:30	04/29/17 10:00	05/09/17 16:05	11	365	05/23/17 04:15	14	365	
PG-PJ-MUS-COC-170427 17E0012-06	04/27/17 12:30	04/29/17 10:00	05/09/17 16:05	12	365	05/23/17 05:08	14	365	

* Indicates hold time exceedance.



METHOD DETECTION AND REPORTING LIMITS

EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

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



METHOD DETECTION AND REPORTING LIMITS

EPA 1613B

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

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



Form I
INORGANIC ANALYSIS DATA SHEET

PG-PJ-OYS-COC-170427

EPA 6010C
Total Metals

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Matrix: Tissue Laboratory ID: 17E0012-01 SDG: 17E0012
Sampled: 04/27/17 13:00 Prepared: 05/09/17 14:15 File ID: I2170510-066
Solids: 0.00 Preparation: FRN Tissue Digestion ICP Analyzed: 05/10/17 14:12
Batch: BFE0167 Sequence: SFE0141 Initial/Final: 2.575 g / 50 mL
Instrument: ICP2 Calibration: AE00030

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium	1.28	1	0.0024	0.0388	



Form I
INORGANIC ANALYSIS DATA SHEET

PG-PJ-COC-COC-170427

EPA 6010C
Total Metals

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Matrix: Tissue Laboratory ID: 17E0012-02 SDG: 17E0012
Sampled: 04/27/17 12:45 Prepared: 05/09/17 14:15 File ID: I2170510-067
Solids: 0.00 Preparation: FRN Tissue Digestion ICP Analyzed: 05/10/17 14:17
Batch: BFE0167 Sequence: SFE0141 Initial/Final: 2.563 g / 50 mL
Instrument: ICP2 Calibration: AE00030

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium	0.0601	1	0.0024	0.0390	



Form I
INORGANIC ANALYSIS DATA SHEET

PG-PJ-LTN-COC-170427

EPA 6010C
Total Metals

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Matrix: Tissue Laboratory ID: 17E0012-03 SDG: 17E0012
Sampled: 04/27/17 13:30 Prepared: 05/09/17 14:15 File ID: I2170510-068
Solids: 0.00 Preparation: FRN Tissue Digestion ICP Analyzed: 05/10/17 14:21
Batch: BFE0167 Sequence: SFE0141 Initial/Final: 2.52 g / 50 mL
Instrument: ICP2 Calibration: AE00030

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium	0.207	1	0.0025	0.0397	



Form I
INORGANIC ANALYSIS DATA SHEET

PG-PJ-MAN-COC-170427

EPA 6010C
Total Metals

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Matrix: Tissue Laboratory ID: 17E0012-04 SDG: 17E0012
Sampled: 04/27/17 12:00 Prepared: 05/09/17 14:15 File ID: I2170510-069
Solids: 0.00 Preparation: FRN Tissue Digestion ICP Analyzed: 05/10/17 14:25
Batch: BFE0167 Sequence: SFE0141 Initial/Final: 2.534 g / 50 mL
Instrument: ICP2 Calibration: AE00030

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium	0.218	1	0.0024	0.0395	



Form I
INORGANIC ANALYSIS DATA SHEET

PG-PJ-HC-COC-170428

EPA 6010C
Total Metals

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Matrix: Tissue Laboratory ID: 17E0012-05 SDG: 17E0012
Sampled: 04/28/17 13:30 Prepared: 05/09/17 14:15 File ID: I2170510-077
Solids: 0.00 Preparation: FRN Tissue Digestion ICP Analyzed: 05/10/17 14:59
Batch: BFE0167 Sequence: SFE0141 Initial/Final: 2.579 g / 50 mL
Instrument: ICP2 Calibration: AE00030

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium	0.163	1	0.0024	0.0388	



Form I
INORGANIC ANALYSIS DATA SHEET

PG-PJ-MUS-COC-170427

EPA 6010C
Total Metals

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Matrix: Tissue Laboratory ID: 17E0012-06 SDG: 17E0012
Sampled: 04/27/17 12:30 Prepared: 05/09/17 14:15 File ID: I2170510-078
Solids: 0.00 Preparation: FRN Tissue Digestion ICP Analyzed: 05/10/17 15:03
Batch: BFE0167 Sequence: SFE0141 Initial/Final: 2.512 g / 50 mL
Instrument: ICP2 Calibration: AE00030

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium	0.360	1	0.0025	0.0398	



PREPARATION BATCH SUMMARY

EPA 6010C

Laboratory: Analytical Resources, Inc. SDG: 17E0012
Client: Anchor QEA, LLC Project: Port Gamble Shellfish Monitoring
Batch: BFE0167 Batch Matrix: Tissue Preparation: FRN Tissue Digestion ICP ICP-MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
PG-PJ-OYS-COC-170427	17E0012-01	I2170510-066	05/09/17 14:15	
PG-PJ-COC-COC-170427	17E0012-02	I2170510-067	05/09/17 14:15	
PG-PJ-LTN-COC-170427	17E0012-03	I2170510-068	05/09/17 14:15	
PG-PJ-MAN-COC-170427	17E0012-04	I2170510-069	05/09/17 14:15	
PG-PJ-HC-COC-170428	17E0012-05	I2170510-077	05/09/17 14:15	
PG-PJ-MUS-COC-170427	17E0012-06	I2170510-078	05/09/17 14:15	
Blank	BFE0167-BLK1	I2170510-025	05/09/17 14:15	
LCS	BFE0167-BS1	I2170510-034	05/09/17 14:15	



Analytical Resources,
Incorporated
Analytical Chemists and
Consultants

BFE167

Digestion Log

Analyst: MB Date: 5/9/17 Time: 1415
 Matrix: tissue Block ID: #4 Block Temp: 94°C Thermometer: mp84

ARI Sample ID	Btl #	pH<2	Prep Code: <u>FRN</u>		Prep Code:		Comments
			Initial Wt (g) Vol (mL)	Final Vol (mL)	Initial Wt (g) Vol (mL)	Final Vol (mL)	
170421-01	A		2.564	50.0			
" 02			2.523				
" 03			2.537				
" 04			2.533				
" 05			2.579				
" 06			2.529				
" 07			2.523				
" 08			2.571				
" 09			2.525				
" 10			2.564				
17E12-01			2.575				
" 02			2.563				
" 03			2.520				
" 04			2.534				
" 05	↓		2.579				
" 06	A		2.512				
BFE167-BLK1	-		-				
" -BS1	-		-				
" -DUP1	-		2.570	↓			170421-08
" -MS1	-		2.573	50.0			↓
MB 5/9/17							

Chemical/Reagent ID:

HNO₃: _____ HCl: _____ H₂O₂: _____ Tube Lot #: _____



Form I
METHOD BLANK DATA SHEET
EPA 6010C
Total Metals

Blank

Batch: BFE0167

Laboratory ID: BFE0167-BLK1

Prepared: 05/09/17 14:15

Matrix: Tissue

Preparation: FRN Tissue Digestion ICP

Analyzed: 05/10/17 11:22

Sequence: SFE0141

Calibration: AE00030

Instrument: ICP2

CAS NO.	Analyte	Concentration (mg/kg)	Dilution Factor	MDL	MRL	Q
7440-43-9	Cadmium	0.0030	1	0.0025	0.0400	J



INSTRUMENT BLANKS
EPA 6010C

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Instrument ID: ICP2

Calibration: AE00030

Sequence: SFE0141

Date Analyzed: 05/10/17 10:16

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SFE0141-CCB1	Cadmium	0.0003	0.0003	0.0020	mg/L	
SFE0141-CCB2	Cadmium	0.0004	0.0003	0.0020	mg/L	
SFE0141-CCB3	Cadmium	0.0003	0.0003	0.0020	mg/L	
SFE0141-CCB4	Cadmium	0.0003	0.0003	0.0020	mg/L	
SFE0141-CCB5	Cadmium	0.0003	0.0003	0.0020	mg/L	
SFE0141-CCB6	Cadmium	0.0003	0.0003	0.0020	mg/L	
SFE0141-CCB7	Cadmium	0.0004	0.0003	0.0020	mg/L	
SFE0141-CCB8	Cadmium	0.0006	0.0003	0.0020	mg/L	
SFE0141-IBL1	Cadmium	0.0004	0.0003	0.0020	mg/L	
SFE0141-ICB1	Cadmium	0.0004	0.0003	0.0020	mg/L	



LCS / LCS DUPLICATE RECOVERY

EPA 6010C

Total Metals

Laboratory:	<u>Analytical Resources, Inc.</u>	SDG:	<u>17E0012</u>
Client:	<u>Anchor QEA, LLC</u>	Project:	<u>Port Gamble Shellfish Monitoring</u>
Matrix:	<u>Tissue</u>	Analyzed:	<u>05/10/17 11:58</u>
Batch:	<u>BFE0167</u>	Laboratory ID:	<u>BFE0167-BS1</u>
Preparation:	<u>FRN Tissue Digestion ICP ICP-MS</u>	Sequence Name:	<u>LCS</u>
Initial/Final:	<u>2.5 g / 50 mL</u>		

COMPOUND	SPIKE ADDED (mg/kg)	LCS CONCENTRATION (mg/kg)	Q	LCS % REC. #	QC LIMITS REC.
Cadmium	20.0	18.2		91.2	80 - 120

* Indicates values outside of QC limits



INITIAL CALIBRATION DATA

EPA 6010C

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Calibration: AE00030

Instrument: ICP2

Calibration Date: 05/10/2017 9:33

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
		RF		RF		RF		RF		RF		RF
Cadmium	0	0	10	27854.85	0		0		0			



INITIAL CALIBRATION DATA

EPA 6010C

Laboratory:	Analytical Resources, Inc.	SDG:	17E0012
Client:	Anchor QEA, LLC	Project:	Port Gamble Shellfish Monitoring
Calibration:	AE00030	Instrument:	ICP2
Calibration Date:	05/10/2017 9:33		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Cadmium	13927.43	141.4	1.0000			



IEC Date: 4-14-17

Analysis Date: 5-10-17

Analyst: TH

LR Date: 4-14-17

Sequence: SFED141

Page: 1 of 4

All corrections made by analyst unless otherwise noted. YA 5-10-17

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		SE2-CA1	F3620		
		-CA2	F4073		
		-CA3	F4074		
		-CA4	F4075		
		-CA5	F4076		
		-JC1	E6096		
		-JC31	F3620		
		-CR1	F3637		
		-JFA1	F3354		
		-JFB1	F0779		
		-CW1	E6096		
		✓ -CC31	F3620		
		BFED201-BL1	SWC	2	
		17D0447-01	↓	↓	
✓		↓ -02	↓	↓	Mn > LR TH 05-11-17
		17D0397-06	↓	5	
✓		17E0009-01	TWC	50	Fe 790% LR
		↓ -02	↓	100	
✓		BFED201-DUP1	SWC	5	Fe 7LR
		17E0009-01	↓ TWC	↓ 100	
		17E0014-01			
✓		17E0124-03	↓ REN	↓ 10	Si Sat'd
		BFED201-MS1			
		↓ BFED201-BS1	↓ SWC	2	
		BS1			
		SE2-CV2			



IEC Date: — Analysis Date: 5-10-17 Analyst: TM
LR Date: — Sequence: — Page: 2 of 4

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		SEQ-CCB2			
		BFE0167-BLK1	FRN		
		17D0421-01	↓		
		17D0447-03	SWC	2	
		↓ -04	↓	↓	
		↓ -06	↓	↓	
	✓	↓ -08	↓	↓	Fe7LR
		BFE0136-DUPI		5	Ni RPD (ER)
		17E0011-01	↓	↓	
		BFE0136-MSI	↓	↓	Sb, Ru (ER)
		BFE0167-BSS1	FRN		
		SEQ-CCV3			
		↓ -CCB3			
		17D0421-02	FRN		
		↓ -03	↓		SiR noisy
		↓ -04	↓		
		↓ -05	↓		
		↓ -06	↓		
	✓	17E0085-01	SWC	2	Fe7LR
		17E0084-03	↓	↓	
		BFE0201-DUPI		20	Cd, Cu, Zn RPD (ER)
		17E0074-01	↓	↓	
		BFE0201-MSI	↓	↓	Zn STL



IEC Date: Analysis Date: 5-10-17 Analyst: YTK
LR Date: Sequence: Page: 3 of 4

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		SEQ-CCW4			
		↓ -CC34			
		SEQ-CAL3			
		↓ -CAL4			
		↓ -CCV5			
		↓ -CCB5			
		BFE0263-BLK1	REN		
		17D0421-07	FRN		
		↓ -09	↓		
		↓ -10	↓		
		BFE0167-DUP1			
		17D0421-08			
		BFE0167-MS1	↓		
	✓	¹²⁴ 17E0123-03	REN	100	use 20x dil
	↓	17E0124-03	↓	50	↓
		BFE0263-BS1	↓		ICP-MS SPIKE
		SEQ-CCV6			
		↓ -CC36			
		BFE0238-BLK1	LEN	5	0.00751 Ba (ER)
		17E0012-01	FRN		
		↓ -02	↓		
		↓ -03	↓		
		↓ -04	↓		



IEC Date: _____

Analysis Date: 5-10-17

Analyst: glt

LR Date: _____

Sequence: _____

Page: 4 of 4

All corrections made by analyst unless otherwise noted.

Edit Label	Delete Data	ARI Sample ID	Prep. Code	Dilution	Comments
		17E0085-01	SWC	5	
		17D0447-08	↓	↓	
		BFE0238-DUPI	LEN		
		17E0111-01	↓	↓	
		BFE0238-MSI			
		SEQ-CW7			
		↓ -CC37			
		17E0012-05	FRN		
		↓ -06	↓		
		17E0055-01	LEN	5	
		17E0074-01	↓	↓	
		17E0077-03	↓	↓	
		17E0124-03	REN	20	
		SEQ-IB21			
		↓ -CCV8			
		↓ -CCB8			
		RmSE/DI			
glt 5-10-17					

Nebulizer Parameters: Hg_ReAlign

Analyte Back Pressure Flow
All 159.0 kPa 0.65 L/min

=====

5/10/2017 9:08:06 AM Hg ReAlign... Actual peak offset (nm): 0.004
Drift (nm): -0.001 Slit adjustment: -3

=====

Analysis Begun

Start Time: 5/10/2017 9:11:45 AM Plasma On Time: 5/10/2017 8:20:29 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: I2170510
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: IEC041417.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
Sample ID: B1 TH 05-10-17 Date Collected: 5/10/2017 9:11:54 AM
Dilution: 1.000000X Data Type: Original

Nebulizer Parameters: B1

Analyte Back Pressure Flow
All 160.0 kPa 0.65 L/min

Mean Data: B1

=====
Analysis Begun

Start Time: 5/10/2017 9:33:41 AM

Plasma On Time: 5/10/2017 8:20:29 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\CRISSETelmt.sif

Batch ID:

Results Data Set: I2170510

Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

=====
Sequence No.: 1

Autosampler Location: 1

Sample ID: SEQ-CAL1

Date Collected: 5/10/2017 9:33:42 AM

Data Type: Original

Nebulizer Parameters: SEQ-CAL1

Analyte	Back Pressure	Flow
All	160.0 kPa	0.65 L/min

Mean Data: SEQ-CAL1

Analyte	Mean Corrected		RSD	Calib	
	Intensity	Std.Dev.		Conc.	Units
ScA 357.253	2254911.3	8806.46	0.39%	100.0	%
ScR 361.383	240382.7	2376.72	0.99%	100.0	%
Ag 328.068†	-92.8	38.30	41.25%	[0.00]	mg/L
Al 308.215†	182.6	10.80	5.92%	[0.00]	mg/L
As 188.979†	-0.4	1.13	262.38%	[0.00]	mg/L
B 249.677†	79.2	7.12	8.99%	[0.00]	mg/L
Ba 233.527†	36.3	2.32	6.40%	[0.00]	mg/L
Be 313.042†	777.9	18.39	2.36%	[0.00]	mg/L
Ca 317.933†	186.8	13.52	7.23%	[0.00]	mg/L
Cd 228.802†	293.2	4.68	1.60%	[0.00]	mg/L
Co 228.616†	-44.2	5.59	12.64%	[0.00]	mg/L
Cr 267.716†	-193.0	8.99	4.66%	[0.00]	mg/L
Cu 324.752†	1370.6	9.74	0.71%	[0.00]	mg/L
Fe 273.955†	28.7	5.07	17.64%	[0.00]	mg/L
K 766.490†	642.3	21.25	3.31%	[0.00]	mg/L
Mg 279.077†	97.8	12.21	12.48%	[0.00]	mg/L
Mn 257.610†	240.1	1.07	0.45%	[0.00]	mg/L
Mo 202.031†	46.5	7.18	15.44%	[0.00]	mg/L
Na 589.592†	-170.9	24.70	14.46%	[0.00]	mg/L
Na 330.237†	-265.8	2.03	0.76%	[0.00]	mg/L
Ni 231.604†	-20.0	1.97	9.85%	[0.00]	mg/L
Pb 220.353†	62.9	9.18	14.59%	[0.00]	mg/L
Sb 206.836†	67.1	2.67	3.98%	[0.00]	mg/L
Se 196.026†	-15.3	3.83	25.09%	[0.00]	mg/L
Si 288.158†	59.5	3.26	5.49%	[0.00]	mg/L
Sn 189.927†	-3.7	4.24	114.82%	[0.00]	mg/L
Sr 421.552†	89.3	20.59	23.05%	[0.00]	mg/L
Ti 334.903†	-34.7	10.83	31.23%	[0.00]	mg/L
Tl 190.801†	-26.9	6.33	23.54%	[0.00]	mg/L
V 292.402†	165.1	29.67	17.97%	[0.00]	mg/L
Zn 206.200†	4.7	2.25	48.43%	[0.00]	mg/L

=====
Sequence No.: 2

Autosampler Location: 2

Sample ID: SEQ-CAL2

Date Collected: 5/10/2017 9:37:42 AM

Data Type: Original

Nebulizer Parameters: SEQ-CAL2

Analyte	Back Pressure	Flow
All	158.0 kPa	0.65 L/min

Mean Data: SEQ-CAL2

Analyte	Mean Corrected		RSD	Calib	
	Intensity	Std.Dev.		Conc.	Units
ScA 357.253	2234034.5	10510.01	0.47%	99.07	%

ScR 361.383	232986.0	328.74	0.14%	96.92 %
Ba 233.527†	50363.1	437.83	0.87%	[10] mg/L
Cd 228.802†	278548.5	1870.05	0.67%	[10] mg/L
Co 228.616†	364562.9	2640.47	0.72%	[10] mg/L
Cr 267.716†	68569.9	118.88	0.17%	[10] mg/L
Cu 324.752†	2059053.3	9394.26	0.46%	[10] mg/L
Mn 257.610†	385235.5	506.24	0.13%	[10] mg/L
V 292.402†	1072744.6	5386.08	0.50%	[10] mg/L

Sequence No.: 3

Autosampler Location: 3

Sample ID: SEQ-CAL3

Date Collected: 5/10/2017 9:39:28 AM

Data Type: Original

Nebulizer Parameters: SEQ-CAL3

Analyte	Back Pressure	Flow
All	161.0 kPa	0.65 L/min

Mean Data: SEQ-CAL3

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
ScA 357.253	2248484.1	16110.68	0.72%	99.71 %
ScR 361.383	239932.4	678.06	0.28%	99.81 %
Ag 328.068†	146707.3	404.12	0.28%	[1.0] mg/L
As 188.979†	17002.8	120.16	0.71%	[10] mg/L
B 249.677†	70437.0	267.16	0.38%	[10] mg/L
Be 313.042†	2119147.8	28027.02	1.32%	[5.0] mg/L
Na 589.592†	432651.2	3110.21	0.72%	[50] mg/L
Ni 231.604†	47304.0	304.39	0.64%	[10] mg/L
Pb 220.353†	82505.7	55.40	0.07%	[10] mg/L
Se 196.026†	12452.1	104.91	0.84%	[10] mg/L
Sr 421.552†	2606445.1	22203.40	0.85%	[5] mg/L
Tl 190.801†	19598.4	155.80	0.79%	[10] mg/L
Zn 206.200†	37758.9	211.56	0.56%	[10] mg/L

Sequence No.: 4

Autosampler Location: 4

Sample ID: SEQ-CAL4

Date Collected: 5/10/2017 9:41:45 AM

Data Type: Original

Nebulizer Parameters: SEQ-CAL4

Analyte	Back Pressure	Flow
All	160.0 kPa	0.65 L/min

Mean Data: SEQ-CAL4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
ScA 357.253	2285829.6	12245.50	0.54%	101.4 %
ScR 361.383	244220.8	607.63	0.25%	101.6 %
Mo 202.031†	191304.2	575.08	0.30%	[10] mg/L
Sb 206.836†	29790.0	94.97	0.32%	[10] mg/L
Si 288.158†	20299.6	219.45	1.08%	[10] mg/L
Sn 189.927†	37621.1	173.47	0.46%	[10] mg/L
Ti 334.903†	160591.2	1034.35	0.64%	[10] mg/L

Sequence No.: 5

Autosampler Location: 5

Sample ID: SEQ-CAL5

Date Collected: 5/10/2017 9:43:59 AM

Data Type: Original

Nebulizer Parameters: SEQ-CAL5

Analyte	Back Pressure	Flow
All	160.0 kPa	0.65 L/min

Mean Data: SEQ-CAL5

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Calib Conc. Units
ScA 357.253	2089653.1	7387.34	0.35%	92.67 %

ScR 361.383	237526.3	1378.68	0.58%	98.81 %
Al 308.215†	43975.5	235.05	0.53%	[30] mg/L
Ca 317.933†	369054.1	964.42	0.26%	[30] mg/L
Fe 273.955†	129809.3	474.26	0.37%	[100] mg/L
K 766.490†	173638.4	536.16	0.31%	[100] mg/L
Mg 279.077†	41003.2	93.61	0.23%	[30] mg/L
Na 330.237†	2276.9	10.66	0.47%	[100] mg/L

Calibration Summary

Analyte	Stds.	Equation	Intercept	Slope	Curvature	Corr. Coef.	Reslope
Ag 328.068	1	Lin Thru 0	0.0	146700	0.00000	1.000000	
Al 308.215	1	Lin Thru 0	0.0	1466	0.00000	1.000000	
As 188.979	1	Lin Thru 0	0.0	1700	0.00000	1.000000	
B 249.677	1	Lin Thru 0	0.0	7044	0.00000	1.000000	
Ba 233.527	1	Lin Thru 0	0.0	5036	0.00000	1.000000	
Be 313.042	1	Lin Thru 0	0.0	423800	0.00000	1.000000	
Ca 317.933	1	Lin Thru 0	0.0	12300	0.00000	1.000000	
Cd 228.802	1	Lin Thru 0	0.0	27850	0.00000	1.000000	
Co 228.616	1	Lin Thru 0	0.0	36460	0.00000	1.000000	
Cr 267.716	1	Lin Thru 0	0.0	6857	0.00000	1.000000	
Cu 324.752	1	Lin Thru 0	0.0	205900	0.00000	1.000000	
Fe 273.955	1	Lin Thru 0	0.0	1298	0.00000	1.000000	
K 766.490	1	Lin Thru 0	0.0	1736	0.00000	1.000000	
Mg 279.077	1	Lin Thru 0	0.0	1367	0.00000	1.000000	
Mn 257.610	1	Lin Thru 0	0.0	38520	0.00000	1.000000	
Mo 202.031	1	Lin Thru 0	0.0	19130	0.00000	1.000000	
Na 589.592	1	Lin Thru 0	0.0	8653	0.00000	1.000000	
Na 330.237	1	Lin Thru 0	0.0	22.77	0.00000	1.000000	
Ni 231.604	1	Lin Thru 0	0.0	4730	0.00000	1.000000	
Pb 220.353	1	Lin Thru 0	0.0	8251	0.00000	1.000000	
Sb 206.836	1	Lin Thru 0	0.0	2979	0.00000	1.000000	
Se 196.026	1	Lin Thru 0	0.0	1245	0.00000	1.000000	
Si 288.158	1	Lin Thru 0	0.0	2030	0.00000	1.000000	
Sn 189.927	1	Lin Thru 0	0.0	3762	0.00000	1.000000	
Sr 421.552	1	Lin Thru 0	0.0	521300	0.00000	1.000000	
Ti 334.903	1	Lin Thru 0	0.0	16060	0.00000	1.000000	
Tl 190.801	1	Lin Thru 0	0.0	1960	0.00000	1.000000	
V 292.402	1	Lin Thru 0	0.0	107300	0.00000	1.000000	
Zn 206.200	1	Lin Thru 0	0.0	3776	0.00000	1.000000	

=====
Analysis Begun

Start Time: 5/10/2017 9:49:34 AM

Plasma On Time: 5/10/2017 8:20:29 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\0510.sif

Batch ID:

Results Data Set: I2170510

Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

=====
 Sequence No.: 1

Autosampler Location: 7

Sample ID: SEQ-ICV1

Date Collected: 5/10/2017 9:49:35 AM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-ICV1

Analyte	Back Pressure	Flow
All	159.0 kPa	0.65 L/min

Mean Data: SEQ-ICV1

Analyte	Mean Corrected		Calib.		Sample		RSD
	Intensity	Conc.	Units	Std.Dev.	Conc.	Units	
ScA 357.253	2188892.9	97.07	%	0.243			0.25%
ScR 361.383	233028.1	96.94	%	0.435			0.45%
Ag 328.068†	153719.0	1.048	mg/L	0.0014	1.048	mg/L	0.14%
Al 308.215†	2997.3	2.009	mg/L	0.0038	2.009	mg/L	0.19%
As 188.979†	3387.9	2.012	mg/L	0.0012	2.012	mg/L	0.06%
B 249.677†	7161.7	1.015	mg/L	0.0026	1.015	mg/L	0.26%
Ba 233.527†	5050.0	1.002	mg/L	0.0012	1.002	mg/L	0.12%
Be 313.042†	434998.3	1.026	mg/L	0.0016	1.026	mg/L	0.16%
Ca 317.933†	23801.0	1.935	mg/L	0.0039	1.935	mg/L	0.20%
Cd 228.802†	28677.6	1.015	mg/L	0.0015	1.015	mg/L	0.15%
Co 228.616†	36303.9	0.9939	mg/L	0.00160	0.9939	mg/L	0.16%
Cr 267.716†	6924.8	1.009	mg/L	0.0051	1.009	mg/L	0.50%
Cu 324.752†	206571.8	1.003	mg/L	0.0015	1.003	mg/L	0.15%
Fe 273.955†	2584.0	1.984	mg/L	0.0173	1.984	mg/L	0.87%
K 766.490†	34685.6	19.98	mg/L	0.098	19.98	mg/L	0.49%
Mg 279.077†	2771.1	2.037	mg/L	0.0083	2.037	mg/L	0.41%
Mn 257.610†	36567.8	0.9496	mg/L	0.00231	0.9496	mg/L	0.24%
Mo 202.031†	19024.0	0.9944	mg/L	0.00142	0.9944	mg/L	0.14%
Na 589.592†	445550.5	51.49	mg/L	0.104	51.49	mg/L	0.20%
Na 330.237†	1171.9	51.28	mg/L	0.213	51.28	mg/L	0.41%
Ni 231.604†	4811.2	1.018	mg/L	0.0044	1.018	mg/L	0.43%
Pb 220.353†	16712.7	2.027	mg/L	0.0025	2.027	mg/L	0.12%
Sb 206.836†	6188.6	2.075	mg/L	0.0049	2.075	mg/L	0.24%
Se 196.026†	2540.6	2.039	mg/L	0.0052	2.039	mg/L	0.25%
Si 288.158†	4304.0	2.101	mg/L	0.0160	2.101	mg/L	0.76%
Sn 189.927†	3749.5	0.9979	mg/L	0.00105	0.9979	mg/L	0.11%
Sr 421.552†	537777.5	1.032	mg/L	0.0010	1.032	mg/L	0.09%
Ti 334.903†	16193.2	1.007	mg/L	0.0023	1.007	mg/L	0.23%
Tl 190.801†	3951.8	2.007	mg/L	0.0065	2.007	mg/L	0.32%
V 292.402†	108591.0	1.017	mg/L	0.0010	1.017	mg/L	0.10%
Zn 206.200†	3833.7	1.016	mg/L	0.0044	1.016	mg/L	0.43%

Sequence No.: 2

Autosampler Location: 1

Sample ID: SEQ-ICB1

Date Collected: 5/10/2017 9:53:36 AM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-ICB1

Analyte	Back Pressure	Flow
All	160.0 kPa	0.65 L/min

Mean Data: SEQ-ICB1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2216973.9	98.32	%	0.545			0.55%
ScR 361.383	234763.9	97.66	%	1.109			1.14%
Ag 328.068†	-5.4	-0.00004	mg/L	0.000161	-0.00004 mg/L	0.000161	437.51%
Al 308.215†	4.6	0.00315	mg/L	0.002222	0.00315 mg/L	0.002222	70.60%
As 188.979†	-6.4	-0.00374	mg/L	0.002531	-0.00374 mg/L	0.002531	67.64%
B 249.677†	3.5	0.00049	mg/L	0.001293	0.00049 mg/L	0.001293	261.84%
Ba 233.527†	-2.2	-0.00043	mg/L	0.000635	-0.00043 mg/L	0.000635	147.53%
Be 313.042†	2.6	0.00001	mg/L	0.000026	0.00001 mg/L	0.000026	420.39%
Ca 317.933†	9.3	0.00075	mg/L	0.000602	0.00075 mg/L	0.000602	79.85%
Cd 228.802†	10.6	0.00041	mg/L	0.000090	0.00041 mg/L	0.000090	22.08%
Co 228.616†	-2.7	-0.00007	mg/L	0.000054	-0.00007 mg/L	0.000054	72.93%
Cr 267.716†	-3.9	-0.00056	mg/L	0.000738	-0.00056 mg/L	0.000738	130.78%
Cu 324.752†	14.5	0.00007	mg/L	0.000145	0.00007 mg/L	0.000145	204.90%
Fe 273.955†	4.3	0.00330	mg/L	0.002160	0.00330 mg/L	0.002160	65.47%
K 766.490†	-18.3	-0.01052	mg/L	0.015625	-0.01052 mg/L	0.015625	148.51%
Mg 279.077†	-8.2	-0.00599	mg/L	0.003216	-0.00599 mg/L	0.003216	53.68%
Mn 257.610†	8.0	0.00021	mg/L	0.000110	0.00021 mg/L	0.000110	52.37%
Mo 202.031†	13.2	0.00069	mg/L	0.000272	0.00069 mg/L	0.000272	39.43%
Na 589.592†	6.8	0.00079	mg/L	0.001321	0.00079 mg/L	0.001321	167.18%
Na 330.237†	-2.6	-0.1153	mg/L	0.39079	-0.1153 mg/L	0.39079	338.81%
Ni 231.604†	0.0	0.00001	mg/L	0.000697	0.00001 mg/L	0.000697	>999.9%
Pb 220.353†	9.5	0.00115	mg/L	0.000464	0.00115 mg/L	0.000464	40.47%
Sb 206.836†	13.8	0.00464	mg/L	0.002221	0.00464 mg/L	0.002221	47.88%
Se 196.026†	1.4	0.00109	mg/L	0.003401	0.00109 mg/L	0.003401	313.09%
Si 288.158†	-13.4	-0.00660	mg/L	0.007650	-0.00660 mg/L	0.007650	115.99%
Sn 189.927†	0.5	0.00014	mg/L	0.000425	0.00014 mg/L	0.000425	302.68%
Sr 421.552†	20.0	0.00004	mg/L	0.000015	0.00004 mg/L	0.000015	39.21%
Ti 334.903†	-2.0	-0.00013	mg/L	0.002218	-0.00013 mg/L	0.002218	>999.9%
Tl 190.801†	-1.0	-0.00049	mg/L	0.001909	-0.00049 mg/L	0.001909	389.26%
V 292.402†	17.1	0.00016	mg/L	0.000122	0.00016 mg/L	0.000122	77.76%
Zn 206.200†	4.4	0.00117	mg/L	0.000298	0.00117 mg/L	0.000298	25.51%

Sequence No.: 3

Sample ID: SEQ-CRL1

Autosampler Location: 301

Date Collected: 5/10/2017 9:57:36 AM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CRL1

Analyte	Back Pressure	Flow
All	161.0 kPa	0.65 L/min

Mean Data: SEQ-CRL1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2201639.9	97.64	%	1.050				1.08%
ScR 361.383	233456.0	97.12	%	0.667				0.69%
Ag 328.068†	492.3	0.00336	mg/L	0.000059	0.00336	mg/L	0.000059	1.76%
Al 308.215†	77.1	0.05242	mg/L	0.012369	0.05242	mg/L	0.012369	23.60%
As 188.979†	83.5	0.04920	mg/L	0.001096	0.04920	mg/L	0.001096	2.23%
B 249.677†	148.8	0.02112	mg/L	0.000645	0.02112	mg/L	0.000645	3.06%
Ba 233.527†	17.1	0.00339	mg/L	0.000362	0.00339	mg/L	0.000362	10.70%
Be 313.042†	434.0	0.00102	mg/L	0.000078	0.00102	mg/L	0.000078	7.60%
Ca 317.933†	556.7	0.04526	mg/L	0.000750	0.04526	mg/L	0.000750	1.66%
Cd 228.802†	75.1	0.00233	mg/L	0.000248	0.00233	mg/L	0.000248	10.63%
Co 228.616†	117.0	0.00320	mg/L	0.000163	0.00320	mg/L	0.000163	5.09%
Cr 267.716†	28.4	0.00414	mg/L	0.000977	0.00414	mg/L	0.000977	23.58%
Cu 324.752†	462.4	0.00224	mg/L	0.000254	0.00224	mg/L	0.000254	11.34%
Fe 273.955†	69.7	0.05368	mg/L	0.001951	0.05368	mg/L	0.001951	3.63%
K 766.490†	899.0	0.5177	mg/L	0.00346	0.5177	mg/L	0.00346	0.67%
Mg 279.077†	81.9	0.05996	mg/L	0.004746	0.05996	mg/L	0.004746	7.91%
Mn 257.610†	47.8	0.00124	mg/L	0.000128	0.00124	mg/L	0.000128	10.31%
Mo 202.031†	99.2	0.00519	mg/L	0.000171	0.00519	mg/L	0.000171	3.30%
Na 589.592†	4530.2	0.5235	mg/L	0.00244	0.5235	mg/L	0.00244	0.47%
Na 330.237†	9.4	0.4082	mg/L	0.20634	0.4082	mg/L	0.20634	50.55%
Ni 231.604†	44.2	0.00935	mg/L	0.001169	0.00935	mg/L	0.001169	12.50%
Pb 220.353†	179.7	0.02181	mg/L	0.001854	0.02181	mg/L	0.001854	8.50%
Sb 206.836†	161.1	0.05410	mg/L	0.001709	0.05410	mg/L	0.001709	3.16%
Se 196.026†	63.5	0.05096	mg/L	0.002517	0.05096	mg/L	0.002517	4.94%
Si 288.158†	112.7	0.05546	mg/L	0.000812	0.05546	mg/L	0.000812	1.46%
Sn 189.927†	33.0	0.00881	mg/L	0.000680	0.00881	mg/L	0.000680	7.72%
Sr 421.552†	571.5	0.00110	mg/L	0.000016	0.00110	mg/L	0.000016	1.42%
Ti 334.903†	71.3	0.00443	mg/L	0.001804	0.00443	mg/L	0.001804	40.69%
Tl 190.801†	100.8	0.05141	mg/L	0.001010	0.05141	mg/L	0.001010	1.96%
V 292.402†	347.0	0.00325	mg/L	0.000033	0.00325	mg/L	0.000033	1.01%
Zn 206.200†	40.6	0.01077	mg/L	0.000580	0.01077	mg/L	0.000580	5.38%

Sequence No.: 4
 Sample ID: SEQ-IFA1

Autosampler Location: 302
 Date Collected: 5/10/2017 10:01:37 AM
 Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-IFA1

Analyte Back Pressure Flow
 All 161.0 kPa 0.65 L/min

Mean Data: SEQ-IFA1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2094167.6	92.87	%	0.313			0.34%
ScR 361.383	227651.6	94.70	%	0.818			0.86%
Ag 328.068†	-173.9	-0.00118	mg/L	0.000258	-0.00118 mg/L	0.000258	21.84%
Al 308.215†	297518.9	203.0	mg/L	0.83	203.0 mg/L	0.83	0.41%
As 188.979†	38.5	0.01482	mg/L	0.002917	0.01482 mg/L	0.002917	19.68%
B 249.677†	-10.3	-0.00147	mg/L	0.002994	-0.00147 mg/L	0.002994	203.97%
Ba 233.527†	144.4	-0.00025	mg/L	0.000387	-0.00025 mg/L	0.000387	156.46%
Be 313.042†	118.7	0.00028	mg/L	0.000043	0.00028 mg/L	0.000043	15.35%
Ca 317.933†	1246446.2	101.3	mg/L	0.36	101.3 mg/L	0.36	0.35%
Cd 228.802†	18.1	0.00047	mg/L	0.000078	0.00047 mg/L	0.000078	16.55%
Co 228.616†	84.0	0.00229	mg/L	0.000091	0.00229 mg/L	0.000091	3.95%
Cr 267.716†	4.2	-0.00118	mg/L	0.000275	-0.00118 mg/L	0.000275	23.34%
Cu 324.752†	-1518.7	0.00147	mg/L	0.000079	0.00147 mg/L	0.000079	5.40%
Fe 273.955†	261675.4	201.6	mg/L	0.88	201.6 mg/L	0.88	0.44%
K 766.490†	21.0	0.01207	mg/L	0.009220	0.01207 mg/L	0.009220	76.41%
Mg 279.077†	143553.7	104.9	mg/L	1.11	104.9 mg/L	1.11	1.06%
Mn 257.610†	65.3	0.00093	mg/L	0.000287	0.00093 mg/L	0.000287	30.87%
Mo 202.031†	72.4	0.00239	mg/L	0.000318	0.00239 mg/L	0.000318	13.31%
Na 589.592†	117.4	0.01357	mg/L	0.001035	0.01357 mg/L	0.001035	7.62%
Na 330.237†	-5.5	-0.2420	mg/L	0.46004	-0.2420 mg/L	0.46004	190.08%
Ni 231.604†	-9.9	-0.00207	mg/L	0.000764	-0.00207 mg/L	0.000764	36.84%
Pb 220.353†	-368.1	0.01252	mg/L	0.001119	0.01252 mg/L	0.001119	8.94%
Sb 206.836†	73.6	0.02450	mg/L	0.004081	0.02450 mg/L	0.004081	16.66%
Se 196.026†	54.7	0.01037	mg/L	0.001885	0.01037 mg/L	0.001885	18.17%
Si 288.158†	-19.4	-0.00966	mg/L	0.000432	-0.00966 mg/L	0.000432	4.47%
Sn 189.927†	-93.9	-0.00908	mg/L	0.000827	-0.00908 mg/L	0.000827	9.11%
Sr 421.552†	3549.0	<u>0.00681</u>	mg/L	0.000101	0.00681 mg/L	0.000101	1.48%
Ti 334.903†	89.1	-0.00039	mg/L	0.000376	-0.00039 mg/L	0.000376	95.21%
Tl 190.801†	-43.5	-0.02223	mg/L	0.002224	-0.02223 mg/L	0.002224	10.00%
V 292.402†	1272.8	0.00449	mg/L	0.000462	0.00449 mg/L	0.000462	10.30%
Zn 206.200†	18.3	0.00483	mg/L	0.000999	0.00483 mg/L	0.000999	20.68%

cont.

Sequence No.: 5
 Sample ID: SEQ-IFB1
 Dilution: 1.000000X

Autosampler Location: 303
 Date Collected: 5/10/2017 10:05:52 AM
 Data Type: Original

Nebulizer Parameters: SEQ-IFB1

Analyte Back Pressure Flow
 All 160.0 kPa 0.65 L/min

Mean Data: SEQ-IFB1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2103709.7	93.29	%	0.741			0.79%
ScR 361.383	226518.3	94.23	%	0.259			0.28%
Ag 328.068†	152517.7	1.040	mg/L	0.0034	1.040 mg/L	0.0034	0.32%
Al 308.215†	296571.1	202.3	mg/L	0.17	202.3 mg/L	0.17	0.08%
As 188.979†	1759.5	1.026	mg/L	0.0052	1.026 mg/L	0.0052	0.50%
B 249.677†	12.3	-0.00093	mg/L	0.001004	-0.00093 mg/L	0.001004	107.99%
Ba 233.527†	5124.4	0.9886	mg/L	0.00894	0.9886 mg/L	0.00894	0.90%
Be 313.042†	440866.7	1.040	mg/L	0.0028	1.040 mg/L	0.0028	0.27%
Ca 317.933†	1241771.5	100.9	mg/L	0.13	100.9 mg/L	0.13	0.12%
Cd 228.802†	28201.2	1.005	mg/L	0.0051	1.005 mg/L	0.0051	0.51%
Co 228.616†	35018.8	0.9603	mg/L	0.00420	0.9603 mg/L	0.00420	0.44%
Cr 267.716†	6876.6	1.001	mg/L	0.0050	1.001 mg/L	0.0050	0.49%
Cu 324.752†	203860.9	0.9991	mg/L	0.00342	0.9991 mg/L	0.00342	0.34%
Fe 273.955†	259807.0	200.1	mg/L	0.53	200.1 mg/L	0.53	0.26%
K 766.490†	-36.8	-0.02120	mg/L	0.012933	-0.02120 mg/L	0.012933	61.00%
Mg 279.077†	136948.0	100.1	mg/L	0.03	100.1 mg/L	0.03	0.03%
Mn 257.610†	36160.7	0.9381	mg/L	0.00279	0.9381 mg/L	0.00279	0.30%
Mo 202.031†	70.4	0.00224	mg/L	0.000927	0.00224 mg/L	0.000927	41.44%
Na 589.592†	66.1	0.00764	mg/L	0.004902	0.00764 mg/L	0.004902	64.20%
Na 330.237†	0.9	-0.3450	mg/L	0.12693	-0.3450 mg/L	0.12693	36.79%
Ni 231.604†	4610.1	0.9748	mg/L	0.00563	0.9748 mg/L	0.00563	0.58%
Pb 220.353†	7891.4	1.014	mg/L	0.0043	1.014 mg/L	0.0043	0.42%
Sb 206.836†	3141.9	1.041	mg/L	0.0062	1.041 mg/L	0.0062	0.59%
Se 196.026†	1315.3	1.021	mg/L	0.0062	1.021 mg/L	0.0062	0.60%
Si 288.158†	-7.9	-0.00403	mg/L	0.004364	-0.00403 mg/L	0.004364	108.37%
Sn 189.927†	-88.7	-0.00727	mg/L	0.001484	-0.00727 mg/L	0.001484	20.41%
Sr 421.552†	3514.5	<u>0.00674</u>	mg/L cont.	0.000035	0.00674 mg/L	0.000035	0.52%
Ti 334.903†	98.7	-0.00001	mg/L	0.000168	-0.00001 mg/L	0.000168	>999.9%
Tl 190.801†	1829.1	0.9242	mg/L	0.00660	0.9242 mg/L	0.00660	0.71%
V 292.402†	107072.2	0.9958	mg/L	0.00425	0.9958 mg/L	0.00425	0.43%
Zn 206.200†	3658.9	0.9692	mg/L	0.00420	0.9692 mg/L	0.00420	0.43%

Sequence No.: 6
 Sample ID: SEQ-CCV1
 Dilution: 1.000000X

Autosampler Location: 7
 Date Collected: 5/10/2017 10:11:03 AM
 Data Type: Original

Nebulizer Parameters: SEQ-CCV1

Analyte Back Pressure Flow
 All 161.0 kPa 0.65 L/min

Mean Data: SEQ-CCV1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2154890.4	95.56	%	0.085			0.09%
ScR 361.383	229095.3	95.30	%	0.838			0.88%
Ag 328.068†	156441.6	1.067	mg/L	0.0123	1.067 mg/L	0.0123	1.15%
Al 308.215†	3114.0	2.088	mg/L	0.0374	2.088 mg/L	0.0374	1.79%
As 188.979†	3467.0	2.059	mg/L	0.0075	2.059 mg/L	0.0075	0.37%
B 249.677†	7323.1	1.038	mg/L	0.0049	1.038 mg/L	0.0049	0.47%
Ba 233.527†	5159.3	1.024	mg/L	0.0033	1.024 mg/L	0.0033	0.32%
Be 313.042†	440677.6	1.039	mg/L	0.0058	1.039 mg/L	0.0058	0.56%
Ca 317.933†	24439.4	1.987	mg/L	0.0087	1.987 mg/L	0.0087	0.44%
Cd 228.802†	29249.5	1.035	mg/L	0.0074	1.035 mg/L	0.0074	0.71%
Co 228.616†	36996.8	1.013	mg/L	0.0137	1.013 mg/L	0.0137	1.35%
Cr 267.716†	7077.9	1.032	mg/L	0.0057	1.032 mg/L	0.0057	0.56%
Cu 324.752†	210371.1	1.021	mg/L	0.0099	1.021 mg/L	0.0099	0.97%
Fe 273.955†	2668.4	2.049	mg/L	0.0333	2.049 mg/L	0.0333	1.62%
K 766.490†	35346.2	20.36	mg/L	0.093	20.36 mg/L	0.093	0.46%
Mg 279.077†	2855.9	2.099	mg/L	0.0182	2.099 mg/L	0.0182	0.87%
Mn 257.610†	37131.4	0.9642	mg/L	0.00243	0.9642 mg/L	0.00243	0.25%
Mo 202.031†	19389.7	1.013	mg/L	0.0140	1.013 mg/L	0.0140	1.38%
Na 589.592†	453860.9	52.45	mg/L	0.119	52.45 mg/L	0.119	0.23%
Na 330.237†	1193.4	52.22	mg/L	0.313	52.22 mg/L	0.313	0.60%
Ni 231.604†	4915.6	1.040	mg/L	0.0062	1.040 mg/L	0.0062	0.59%
Pb 220.353†	17048.5	2.068	mg/L	0.0247	2.068 mg/L	0.0247	1.19%
Sb 206.836†	6330.5	2.122	mg/L	0.0044	2.122 mg/L	0.0044	0.21%
Se 196.026†	2586.5	2.075	mg/L	0.0012	2.075 mg/L	0.0012	0.06%
Si 288.158†	4367.0	2.132	mg/L	0.0155	2.132 mg/L	0.0155	0.73%
Sn 189.927†	3812.8	1.015	mg/L	0.0012	1.015 mg/L	0.0012	0.11%
Sr 421.552†	547224.2	1.050	mg/L	0.0011	1.050 mg/L	0.0011	0.11%
Ti 334.903†	16465.7	1.024	mg/L	0.0024	1.024 mg/L	0.0024	0.24%
Tl 190.801†	4057.1	2.061	mg/L	0.0013	2.061 mg/L	0.0013	0.06%
V 292.402†	110614.7	1.036	mg/L	0.0117	1.036 mg/L	0.0117	1.12%
Zn 206.200†	3915.4	1.037	mg/L	0.0057	1.037 mg/L	0.0057	0.55%

Sequence No.: 7
 Sample ID: SEQ-CCB1

Autosampler Location: 1
 Date Collected: 5/10/2017 10:16:08 AM
 Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCB1

Analyte Back Pressure Flow
 All 162.0 kPa 0.65 L/min

Mean Data: SEQ-CCB1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2184376.5	96.87	%	0.710			0.73%
ScR 361.383	231995.4	96.51	%	0.067			0.07%
Ag 328.068†	-51.8	-0.00035	mg/L	0.000214	-0.00035 mg/L	0.000214	60.56%
Al 308.215†	9.4	0.00637	mg/L	0.008511	0.00637 mg/L	0.008511	133.53%
As 188.979†	1.2	0.00069	mg/L	0.001124	0.00069 mg/L	0.001124	162.04%
B 249.677†	4.9	0.00069	mg/L	0.000189	0.00069 mg/L	0.000189	27.29%
Ba 233.527†	-1.7	-0.00035	mg/L	0.000165	-0.00035 mg/L	0.000165	47.62%
Be 313.042†	43.6	0.00010	mg/L	0.000013	0.00010 mg/L	0.000013	13.03%
Ca 317.933†	14.9	0.00121	mg/L	0.000241	0.00121 mg/L	0.000241	19.91%
Cd 228.802†	9.6	0.00034	mg/L	0.000140	0.00034 mg/L	0.000140	41.13%
Co 228.616†	-2.5	-0.00007	mg/L	0.000088	-0.00007 mg/L	0.000088	129.93%
Cr 267.716†	-8.4	-0.00122	mg/L	0.000878	-0.00122 mg/L	0.000878	71.86%
Cu 324.752†	77.8	0.00038	mg/L	0.000102	0.00038 mg/L	0.000102	26.87%
Fe 273.955†	6.3	0.00484	mg/L	0.002453	0.00484 mg/L	0.002453	50.68%
K 766.490†	1.9	0.00107	mg/L	0.012515	0.00107 mg/L	0.012515	>999.9%
Mg 279.077†	4.1	0.00300	mg/L	0.002633	0.00300 mg/L	0.002633	87.84%
Mn 257.610†	13.9	0.00036	mg/L	0.000223	0.00036 mg/L	0.000223	62.11%
Mo 202.031†	11.3	0.00059	mg/L	0.000393	0.00059 mg/L	0.000393	66.53%
Na 589.592†	25.9	0.00299	mg/L	0.002042	0.00299 mg/L	0.002042	68.25%
Na 330.237†	-9.7	-0.4256	mg/L	0.44753	-0.4256 mg/L	0.44753	105.16%
Ni 231.604†	1.5	0.00032	mg/L	0.001242	0.00032 mg/L	0.001242	392.95%
Pb 220.353†	0.8	0.00010	mg/L	0.000750	0.00010 mg/L	0.000750	772.67%
Sb 206.836†	18.2	0.00612	mg/L	0.002275	0.00612 mg/L	0.002275	37.17%
Se 196.026†	0.1	0.00011	mg/L	0.001555	0.00011 mg/L	0.001555	>999.9%
Si 288.158†	5.7	0.00282	mg/L	0.004332	0.00282 mg/L	0.004332	153.70%
Sn 189.927†	1.5	0.00041	mg/L	0.000297	0.00041 mg/L	0.000297	71.68%
Sr 421.552†	51.5	0.00010	mg/L	0.000016	0.00010 mg/L	0.000016	16.45%
Ti 334.903†	-16.0	-0.00100	mg/L	0.000259	-0.00100 mg/L	0.000259	25.94%
Tl 190.801†	1.3	0.00065	mg/L	0.001005	0.00065 mg/L	0.001005	153.55%
V 292.402†	28.6	0.00026	mg/L	0.000120	0.00026 mg/L	0.000120	45.79%
Zn 206.200†	3.5	0.00092	mg/L	0.000627	0.00092 mg/L	0.000627	68.08%

Sequence No.: 8

Autosampler Location: 304

Sample ID: BFE0201-BLK1

Date Collected: 5/10/2017 10:20:08 AM

Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: BFE0201-BLK1

Analyte	Back Pressure	Flow
All	161.0 kPa	0.65 L/min

Mean Data: BFE0201-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2230812.0	98.93	%	0.244			0.25%
ScR 361.383	238388.9	99.17	%	0.323			0.33%
Ag 328.068†	16.4	0.00011	mg/L	0.000168	0.00022 mg/L	0.000336	149.98%
Al 308.215†	5.7	0.00387	mg/L	0.003198	0.00774 mg/L	0.006395	82.61%
As 188.979†	-2.9	-0.00170	mg/L	0.002213	-0.00340 mg/L	0.004426	130.29%
B 249.677†	-4.9	-0.00070	mg/L	0.001096	-0.00139 mg/L	0.002192	157.70%
Ba 233.527†	-1.2	-0.00025	mg/L	0.000217	-0.00050 mg/L	0.000433	87.30%
Be 313.042†	3.2	0.00001	mg/L	0.000030	0.00002 mg/L	0.000060	391.08%
Ca 317.933†	61.9	0.00503	mg/L	0.001695	0.01007 mg/L	0.003390	33.67%
Cd 228.802†	8.6	0.00032	mg/L	0.000110	0.00065 mg/L	0.000220	34.04%
Co 228.616†	-5.3	-0.00014	mg/L	0.000035	-0.00029 mg/L	0.000070	24.21%
Cr 267.716†	5.4	0.00078	mg/L	0.000714	0.00157 mg/L	0.001428	91.04%
Cu 324.752†	103.1	0.00050	mg/L	0.000107	0.00100 mg/L	0.000214	21.36%
Fe 273.955†	18.9	0.01453	mg/L	0.001076	0.02907 mg/L	0.002152	7.40%
K 766.490†	42.5	0.02445	mg/L	0.005340	0.04890 mg/L	0.010680	21.84%
Mg 279.077†	1.7	0.00126	mg/L	0.000777	0.00253 mg/L	0.001554	61.46%
Mn 257.610†	8.4	0.00022	mg/L	0.000036	0.00044 mg/L	0.000072	16.37%
Mo 202.031†	1.1	0.00006	mg/L	0.000155	0.00012 mg/L	0.000310	259.91%
Na 589.592†	60.4	0.00698	mg/L	0.006477	0.01397 mg/L	0.012955	92.76%
Na 330.237†	-0.1	-0.00628	mg/L	0.467284	-0.01256 mg/L	0.934568	>999.9%
Ni 231.604†	-1.3	-0.00028	mg/L	0.001541	-0.00055 mg/L	0.003082	556.19%
Pb 220.353†	0.1	0.00001	mg/L	0.000365	0.00002 mg/L	0.000729	>999.9%
Sb 206.836†	3.3	0.00108	mg/L	0.002422	0.00217 mg/L	0.004843	223.35%
Se 196.026†	3.2	0.00255	mg/L	0.002147	0.00510 mg/L	0.004295	84.25%
Si 288.158†	-0.1	-0.00005	mg/L	0.000545	-0.00011 mg/L	0.001089	>999.9%
Sn 189.927†	0.1	0.00002	mg/L	0.000737	0.00005 mg/L	0.001474	>999.9%
Sr 421.552†	13.4	0.00003	mg/L	0.000082	0.00005 mg/L	0.000165	319.68%
Ti 334.903†	-8.6	-0.00053	mg/L	0.000605	-0.00107 mg/L	0.001210	113.36%
Tl 190.801†	0.4	0.00022	mg/L	0.001535	0.00044 mg/L	0.003071	691.23%
V 292.402†	12.1	0.00012	mg/L	0.000263	0.00023 mg/L	0.000527	225.58%
Zn 206.200†	10.9	0.00290	mg/L	0.000942	0.00579 mg/L	0.001884	32.52%

Sequence No.: 9

Sample ID: 17D0447-01

Autosampler Location: 305

Date Collected: 5/10/2017 10:24:09 AM

Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: 17D0447-01

Analyte	Back Pressure	Flow
All	161.0 kPa	0.65 L/min

Mean Data: 17D0447-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2137715.2	94.80	%	0.393				0.42%
ScR 361.383	231858.8	96.45	%	2.275				2.36%
Ag 328.068†	-102.0	-0.00058	mg/L	0.000284	-0.00117	mg/L	0.000568	48.54%
Al 308.215†	141965.9	96.83	mg/L	0.271	193.7	mg/L	0.54	0.28%
As 188.979†	-199.1	0.04601	mg/L	0.003113	0.09201	mg/L	0.006226	6.77%
B 249.677†	250.8	0.03399	mg/L	0.001783	0.06798	mg/L	0.003567	5.25%
Ba 233.527†	6338.3	1.234	mg/L	0.0276	2.467	mg/L	0.0553	2.24%
Be 313.042†	714.5	0.00149	mg/L	0.000091	0.00298	mg/L	0.000183	6.14%
Ca 317.933†	780823.0	63.47	mg/L	0.230	126.9	mg/L	0.46	0.36%
Cd 228.802†	176.6	0.00744	mg/L	0.000249	0.01488	mg/L	0.000497	3.34%
Co 228.616†	2783.4	0.06393	mg/L	0.000586	0.1279	mg/L	0.00117	0.92%
Cr 267.716†	2654.0	0.3893	mg/L	0.00773	0.7786	mg/L	0.01546	1.99%
Cu 324.752†	130201.8	0.6390	mg/L	0.00172	1.278	mg/L	0.0034	0.27%
Fe 273.955†	224621.9	173.0	mg/L	0.30	346.1	mg/L	0.60	0.17%
K 766.490†	10869.1	6.260	mg/L	0.0376	12.52	mg/L	0.075	0.60%
Mg 279.077†	51879.0	37.86	mg/L	0.032	75.73	mg/L	0.063	0.08%
Mn 257.610†	220886.1	5.734	mg/L	0.0123	11.47	mg/L	0.025	0.21%
Mo 202.031†	577.8	0.02931	mg/L	0.000059	0.05861	mg/L	0.000119	0.20%
Na 589.592†	47255.4	5.461	mg/L	0.0177	10.92	mg/L	0.035	0.32%
Na 330.237†	95.0	4.568	mg/L	0.2201	9.136	mg/L	0.4403	4.82%
Ni 231.604†	1173.8	0.2482	mg/L	0.00529	0.4963	mg/L	0.01058	2.13%
Pb 220.353†	3709.8	0.4768	mg/L	0.00490	0.9536	mg/L	0.00981	1.03%
Sb 206.836†	66.9	0.01981	mg/L	0.003734	0.03963	mg/L	0.007467	18.84%
Se 196.026†	25.6	0.00420	mg/L	0.000294	0.00841	mg/L	0.000589	7.01%
Si 288.158†	6859.3	3.240	mg/L	0.0628	6.479	mg/L	0.1256	1.94%
Sn 189.927†	68.2	0.02810	mg/L	0.001309	0.05620	mg/L	0.002619	4.66%
Sr 421.552†	299792.2	0.5751	mg/L	0.00166	1.150	mg/L	0.0033	0.29%
Ti 334.903†	108048.6	6.724	mg/L	0.0021	13.45	mg/L	0.004	0.03%
Tl 190.801†	-36.4	-0.02027	mg/L	0.006218	-0.04054	mg/L	0.012435	30.67%
V 292.402†	38962.3	0.3553	mg/L	0.00085	0.7107	mg/L	0.00170	0.24%
Zn 206.200†	9748.3	2.582	mg/L	0.0538	5.165	mg/L	0.1076	2.08%

Sequence No.: 10

Sample ID: 17D0447-02

DEL

TH 05-11-17

Autosampler Location: 306

Date Collected: 5/10/2017 10:28:09 AM

Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: 17D0447-02

Analyte Back Pressure Flow
 All 161.0 kPa 0.65 L/min

Mean Data: 17D0447-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2160325.4	95.81	%	0.472			0.49%
ScR 361.383	230520.9	95.90	%	0.893			0.93%
Ag 328.068†	461.3	0.00326	mg/L	0.000440	0.00652 mg/L	0.000879	13.49%
Al 308.215†	87587.0	59.74	mg/L	0.217	119.5 mg/L	0.43	0.36%
As 188.979†	0.2	0.09968	mg/L	0.000551	0.1994 mg/L	0.00110	0.55%
B 249.677†	189.0	0.02577	mg/L	0.000592	0.05154 mg/L	0.001184	2.30%
Ba 233.527†	11228.4	2.204	mg/L	0.0261	4.408 mg/L	0.0522	1.18%
Be 313.042†	633.3	0.00133	mg/L	0.000029	0.00267 mg/L	0.000058	2.17%
Ca 317.933†	467024.4	37.96	mg/L	0.163	75.93 mg/L	0.327	0.43%
Cd 228.802†	50.1	0.00216	mg/L	0.000240	0.00431 mg/L	0.000480	11.14%
Co 228.616†	2570.5	0.06277	mg/L	0.000616	0.1255 mg/L	0.00123	0.98%
Cr 267.716†	1620.5	0.2389	mg/L	0.00178	0.4777 mg/L	0.00357	0.75%
Cu 324.752†	24474.2	0.1262	mg/L	0.00074	0.2523 mg/L	0.00149	0.59%
Fe 273.955†	228072.1	175.7	mg/L	0.70	351.4 mg/L	1.40	0.40%
K 766.490†	6612.2	3.808	mg/L	0.0365	7.616 mg/L	0.0731	0.96%
Mg 279.077†	53681.4	39.31	mg/L	0.156	78.62 mg/L	0.312	0.40%
Mn 257.610†	2737840.7	71.07	mg/L	0.284	142.1 mg/L	0.57	0.40%
Mo 202.031†	100.3	0.00471	mg/L	0.000246	0.00941 mg/L	0.000492	5.23%
Na 589.592†	15619.0	1.805	mg/L	0.0112	3.610 mg/L	0.0224	0.62%
Na 330.237†	21.7	1.320	mg/L	0.5126	2.641 mg/L	1.0252	38.82%
Ni 231.604†	1918.0	0.4055	mg/L	0.00494	0.8109 mg/L	0.00988	1.22%
Pb 220.353†	700.5	0.1020	mg/L	0.00030	0.2040 mg/L	0.00060	0.29%
Sb 206.836†	44.0	0.01362	mg/L	0.002504	0.02724 mg/L	0.005008	18.38%
Se 196.026†	66.2	0.04290	mg/L	0.008106	0.08580 mg/L	0.016213	18.90%
Si 288.158†	6898.5	3.313	mg/L	0.0301	6.627 mg/L	0.0602	0.91%
Sn 189.927†	-77.5	-0.01465	mg/L	0.000440	-0.02929 mg/L	0.000880	3.00%
Sr 421.552†	167180.3	0.3207	mg/L	0.00130	0.6414 mg/L	0.00260	0.41%
Ti 334.903†	65860.4	4.099	mg/L	0.0132	8.198 mg/L	0.0265	0.32%
Tl 190.801†	-50.0	-0.02729	mg/L	0.004167	-0.05458 mg/L	0.008334	15.27%
V 292.402†	41104.2	0.3856	mg/L	0.00363	0.7712 mg/L	0.00727	0.94%
Zn 206.200†	4737.8	1.255	mg/L	0.0176	2.511 mg/L	0.0352	1.40%

Sequence No.: 11

Sample ID: 17D0397-06

Autosampler Location: 307

Date Collected: 5/10/2017 10:32:11 AM

Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: 17D0397-06

Analyte	Back Pressure	Flow
All	161.0 kPa	0.65 L/min

Mean Data: 17D0397-06

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2188619.6	97.06	%	0.203			0.21%
ScR 361.383	235621.2	98.02	%	0.788			0.80%
Ag 328.068†	269.3	0.00187	mg/L	0.000300	0.00934 mg/L	0.001499	16.05%
Al 308.215†	20264.3	13.82	mg/L	0.109	69.11 mg/L	0.543	0.79%
As 188.979†	28.0	0.03577	mg/L	0.003050	0.1789 mg/L	0.01525	8.53%
B 249.677†	60.5	0.00835	mg/L	0.001153	0.04176 mg/L	0.005767	13.81%
Ba 233.527†	1318.9	0.2455	mg/L	0.00233	1.227 mg/L	0.0117	0.95%
Be 313.042†	224.8	0.00049	mg/L	0.000037	0.00246 mg/L	0.000185	7.52%
Ca 317.933†	130539.7	10.61	mg/L	0.060	53.06 mg/L	0.300	0.57%
Cd 228.802†	130.9	0.00461	mg/L	0.000137	0.02307 mg/L	0.000685	2.97%
Co 228.616†	1056.2	0.02747	mg/L	0.000039	0.1373 mg/L	0.00020	0.14%
Cr 267.716†	465.6	0.07114	mg/L	0.000917	0.3557 mg/L	0.00459	1.29%
Cu 324.752†	20179.6	0.1033	mg/L	0.00047	0.5164 mg/L	0.00236	0.46%
Fe 273.955†	147979.8	114.0	mg/L	0.70	570.0 mg/L	3.50	0.61%
K 766.490†	1677.8	0.9663	mg/L	0.01014	4.831 mg/L	0.0507	1.05%
Mg 279.077†	8049.7	5.832	mg/L	0.0342	29.16 mg/L	0.171	0.59%
Mn 257.610†	220901.5	5.735	mg/L	0.0480	28.67 mg/L	0.240	0.84%
Mo 202.031†	167.4	0.00860	mg/L	0.000222	0.04301 mg/L	0.001110	2.58%
Na 589.592†	5711.2	0.6600	mg/L	0.01636	3.300 mg/L	0.0818	2.48%
Na 330.237†	12.3	0.2680	mg/L	0.14003	1.340 mg/L	0.7001	52.25%
Ni 231.604†	239.5	0.05064	mg/L	0.000618	0.2532 mg/L	0.00309	1.22%
Pb 220.353†	1513.0	0.1873	mg/L	0.00051	0.9364 mg/L	0.00255	0.27%
Sb 206.836†	94.8	0.03141	mg/L	0.001183	0.1571 mg/L	0.00592	3.77%
Se 196.026†	4.4	0.00112	mg/L	0.002361	0.00561 mg/L	0.011804	210.37%
Si 288.158†	4418.3	2.160	mg/L	0.0215	10.80 mg/L	0.107	1.00%
Sn 189.927†	13.7	0.00532	mg/L	0.000720	0.02660 mg/L	0.003602	13.54%
Sr 421.552†	42142.8	0.08084	mg/L	0.000684	0.4042 mg/L	0.00342	0.85%
Ti 334.903†	12980.8	0.8077	mg/L	0.00421	4.038 mg/L	0.0211	0.52%
Tl 190.801†	-24.5	-0.01303	mg/L	0.004819	-0.06513 mg/L	0.024095	37.00%
V 292.402†	11101.8	0.09997	mg/L	0.000430	0.4999 mg/L	0.00215	0.43%
Zn 206.200†	4202.5	1.113	mg/L	0.0078	5.567 mg/L	0.0392	0.70%

Sequence No.: 12
 Sample ID: 17E0009-01 DEL

Autosampler Location: 308
 Date Collected: 5/10/2017 10:36:10 AM
 Data Type: Original

Dilution: 50.000000X

Nebulizer Parameters: 17E0009-01

Analyte Back Pressure Flow
 All 161.0 kPa 0.65 L/min

Mean Data: 17E0009-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2183748.3	96.84	%	0.958			0.99%
ScR 361.383	235028.7	97.77	%	0.305			0.31%
Ag 328.068†	-107.7	-0.00058	mg/L	0.000127	-0.02903 mg/L	0.006333	21.81%
Al 308.215†	55495.7	37.85	mg/L	0.114	1893 mg/L	5.68	0.30%
As 188.979†	-21.2	-0.00470	mg/L	0.003216	-0.2348 mg/L	0.16078	68.48%
B 249.677†	-2.0	-0.00042	mg/L	0.002355	-0.02110 mg/L	0.117738	558.06%
Ba 233.527†	171.2	-0.00020	mg/L	0.000491	-0.01006 mg/L	0.024557	244.08%
Be 313.042†	131.2	0.00017	mg/L	0.000015	0.00874 mg/L	0.000746	8.54%
Ca 317.933†	3204.8	0.2605	mg/L	0.00238	13.03 mg/L	0.119	0.92%
Cd 228.802†	42.6	0.00163	mg/L	0.000153	0.08133 mg/L	0.007650	9.41%
Co 228.616†	812.5	0.02169	mg/L	0.000371	1.085 mg/L	0.0185	1.71%
Cr 267.716†	1014.8	0.1554	mg/L	0.00099	7.768 mg/L	0.0495	0.64%
Cu 324.752†	255978.8	1.254	mg/L	0.0038	62.72 mg/L	0.189	0.30%
Fe 273.955†	308389.4	237.6	mg/L	1.05	11880 mg/L	52.56	0.44%
K 766.490†	23963.6	13.80	mg/L	0.020	690.0 mg/L	1.00	0.14%
Mg 279.077†	4453.5	3.117	mg/L	0.0143	155.8 mg/L	0.71	0.46%
Mn 257.610†	32715.3	0.8502	mg/L	0.00316	42.51 mg/L	0.158	0.37%
Mo 202.031†	334.5	0.01747	mg/L	0.000221	0.8736 mg/L	0.01105	1.27%
Na 589.592†	378023.6	43.69	mg/L	0.096	2184 mg/L	4.81	0.22%
Na 330.237†	1025.2	43.21	mg/L	0.116	2161 mg/L	5.82	0.27%
Ni 231.604†	207.6	0.04390	mg/L	0.000826	2.195 mg/L	0.0413	1.88%
Pb 220.353†	38.6	0.01401	mg/L	0.000405	0.7006 mg/L	0.02026	2.89%
Sb 206.836†	51.6	0.01725	mg/L	0.000911	0.8625 mg/L	0.04554	5.28%
Se 196.026†	6.0	-0.00183	mg/L	0.004542	-0.09154 mg/L	0.227079	248.06%
Si 288.158†	353.5	0.1675	mg/L	0.08383	8.375 mg/L	4.1917	50.05%
Sn 189.927†	6.6	0.00180	mg/L	0.000670	0.08999 mg/L	0.033489	37.22%
Sr 421.552†	450.2	0.00086	mg/L	0.000015	0.04319 mg/L	0.000772	1.79%
Ti 334.903†	5182.9	0.3227	mg/L	0.00220	16.13 mg/L	0.110	0.68%
Tl 190.801†	-44.3	-0.02448	mg/L	0.000832	-1.224 mg/L	0.0416	3.40%
V 292.402†	54020.7	0.4955	mg/L	0.00075	24.78 mg/L	0.037	0.15%
Zn 206.200†	17731.9	4.696	mg/L	0.0083	234.8 mg/L	0.41	0.18%

Sequence No.: 13

Autosampler Location: 309

Sample ID: 17E0009-02

Date Collected: 5/10/2017 10:40:10 AM

Data Type: Original

Dilution: 100.000000X

Nebulizer Parameters: 17E0009-02

Analyte	Back Pressure	Flow
All	161.0 kPa	0.65 L/min

Mean Data: 17E0009-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2173094.9	96.37	%	0.986				1.02%
ScR 361.383	238219.5	99.10	%	0.276				0.28%
Ag 328.068†	-75.9	-0.00043	mg/L	0.000327	-0.04263	mg/L	0.032703	76.72%
Al 308.215†	37010.4	25.24	mg/L	0.026	2524	mg/L	2.65	0.10%
As 188.979†	-12.7	-0.00288	mg/L	0.001791	-0.2880	mg/L	0.17912	62.20%
B 249.677†	309.9	0.04391	mg/L	0.002491	4.391	mg/L	0.2491	5.67%
Ba 233.527†	105.0	0.00015	mg/L	0.000593	0.01490	mg/L	0.059250	397.76%
Be 313.042†	101.7	0.00016	mg/L	0.000031	0.01599	mg/L	0.003061	19.15%
Ca 317.933†	2074.7	0.1687	mg/L	0.00098	16.87	mg/L	0.098	0.58%
Cd 228.802†	29.3	0.00113	mg/L	0.000030	0.1131	mg/L	0.00301	2.66%
Co 228.616†	500.4	0.01337	mg/L	0.000087	1.337	mg/L	0.0087	0.65%
Cr 267.716†	753.0	0.1143	mg/L	0.00149	11.43	mg/L	0.149	1.31%
Cu 324.752†	31866.0	0.1616	mg/L	0.00047	16.16	mg/L	0.047	0.29%
Fe 273.955†	186618.2	143.8	mg/L	1.17	14380	mg/L	117.31	0.82%
K 766.490†	13741.6	7.914	mg/L	0.0351	791.4	mg/L	3.51	0.44%
Mg 279.077†	2814.1	1.973	mg/L	0.0009	197.3	mg/L	0.09	0.05%
Mn 257.610†	18673.4	0.4853	mg/L	0.00380	48.53	mg/L	0.380	0.78%
Mo 202.031†	200.2	0.01046	mg/L	0.000142	1.046	mg/L	0.0142	1.36%
Na 589.592†	115090.8	13.30	mg/L	0.015	1330	mg/L	1.46	0.11%
Na 330.237†	312.0	12.81	mg/L	0.291	1281	mg/L	29.12	2.27%
Ni 231.604†	220.4	0.04660	mg/L	0.000410	4.660	mg/L	0.0410	0.88%
Pb 220.353†	17.0	0.00916	mg/L	0.000312	0.9165	mg/L	0.03115	3.40%
Sb 206.836†	36.9	0.01195	mg/L	0.001669	1.195	mg/L	0.1669	13.97%
Se 196.026†	3.3	-0.00175	mg/L	0.003573	-0.1750	mg/L	0.35733	204.14%
Si 288.158†	152.9	0.07136	mg/L	0.037458	7.136	mg/L	3.7458	52.50%
Sn 189.927†	1.6	0.00046	mg/L	0.000655	0.04639	mg/L	0.065456	141.11%
Sr 421.552†	283.7	0.00054	mg/L	0.000071	0.05443	mg/L	0.007087	13.02%
Ti 334.903†	3099.2	0.1929	mg/L	0.00063	19.29	mg/L	0.063	0.33%
Tl 190.801†	-30.4	-0.01667	mg/L	0.001644	-1.667	mg/L	0.1644	9.87%
V 292.402†	32051.0	0.2940	mg/L	0.00207	29.40	mg/L	0.207	0.70%
Zn 206.200†	8816.2	2.335	mg/L	0.0114	233.5	mg/L	1.14	0.49%

Sequence No.: 14

Autosampler Location: 310

Sample ID: BFE0201-DUP1

DEL

Date Collected: 5/10/2017 10:44:09 AM

Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: BFE0201-DUP1

Analyte	Back Pressure	Flow
All	161.0 kPa	0.65 L/min

Mean Data: BFE0201-DUP1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2171743.9	96.31	%	0.247			0.26%
ScR 361.383	235398.4	97.93	%	0.651			0.66%
Ag 328.068†	379.1	0.00262	mg/L	0.000633	0.01310 mg/L	0.003163	24.15%
Al 308.215†	25039.9	17.08	mg/L	0.103	85.39 mg/L	0.514	0.60%
As 188.979†	3284.5	1.950	mg/L	0.0100	9.749 mg/L	0.0499	0.51%
B 249.677†	92.2	0.01288	mg/L	0.002006	0.06440 mg/L	0.010032	15.58%
Ba 233.527†	5136.2	0.9390	mg/L	0.00584	4.695 mg/L	0.0292	0.62%
Be 313.042†	230.4	0.00050	mg/L	0.000046	0.00250 mg/L	0.000228	9.12%
Ca 317.933†	324455.8	26.37	mg/L	0.096	131.9 mg/L	0.48	0.36%
Cd 228.802†	1416.6	0.03619	mg/L	0.000137	0.1810 mg/L	0.00068	0.38%
Co 228.616†	987.6	0.02551	mg/L	0.000091	0.1275 mg/L	0.00045	0.36%
Cr 267.716†	613.3	0.1065	mg/L	0.00091	0.5325 mg/L	0.00454	0.85%
Cu 324.752†	100538.7	0.5152	mg/L	0.00088	2.576 mg/L	0.0044	0.17%
Fe 273.955†	731278.8	563.3	mg/L	4.34	2817 mg/L	21.71	0.77%
K 766.490†	1896.7	1.092	mg/L	0.0012	5.462 mg/L	0.0060	0.11%
Mg 279.077†	11169.9	7.878	mg/L	0.0633	39.39 mg/L	0.317	0.80%
Mn 257.610†	919373.4	23.87	mg/L	0.149	119.3 mg/L	0.75	0.63%
Mo 202.031†	623.9	0.03225	mg/L	0.000535	0.1612 mg/L	0.00267	1.66%
Na 589.592†	4650.9	0.5375	mg/L	0.00404	2.687 mg/L	0.0202	0.75%
Na 330.237†	143.4	-1.472	mg/L	0.2429	-7.362 mg/L	1.2143	16.50%
Ni 231.604†	293.7	0.06213	mg/L	0.000790	0.3107 mg/L	0.00395	1.27%
Pb 220.353†	4022.5	0.4919	mg/L	0.00108	2.459 mg/L	0.0054	0.22%
Sb 206.836†	142.3	0.04699	mg/L	0.001918	0.2350 mg/L	0.00959	4.08%
Se 196.026†	13.3	0.00776	mg/L	0.005622	0.03882 mg/L	0.028111	72.42%
Si 288.158†	1182.7	0.5658	mg/L	0.00826	2.829 mg/L	0.0413	1.46%
Sn 189.927†	-10.0	0.00152	mg/L	0.001653	0.00758 mg/L	0.008264	108.95%
Sr 421.552†	152124.3	0.2918	mg/L	0.00039	1.459 mg/L	0.0019	0.13%
Ti 334.903†	13086.8	0.8133	mg/L	0.00038	4.067 mg/L	0.0019	0.05%
Tl 190.801†	-125.8	-0.06475	mg/L	0.001899	-0.3237 mg/L	0.00950	2.93%
V 292.402†	12749.8	0.1016	mg/L	0.00068	0.5081 mg/L	0.00340	0.67%
Zn 206.200†	74899.7	19.84	mg/L	0.117	99.18 mg/L	0.586	0.59%

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Analysis Begun

Start Time: 5/10/2017 10:53:54 AM

Plasma On Time: 5/10/2017 8:20:29 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\0510.sif

Batch ID:

Results Data Set: I2170510

Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

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 Sequence No.: 1

Autosampler Location: 311

Sample ID: 17E0009-01

Date Collected: 5/10/2017 10:53:55 AM

Dilution: 100.000000X

Data Type: Original

Nebulizer Parameters: 17E0009-01

Analyte	Back Pressure	Flow
All	159.0 kPa	0.65 L/min

Mean Data: 17E0009-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2216957.8	98.32	%	0.559			0.57%
ScR 361.383	239966.9	99.83	%	0.182			0.18%
Ag 328.068†	-44.8	-0.00023	mg/L	0.000394	-0.02278	0.039421	173.05%
Al 308.215†	27358.1	18.66	mg/L	0.023	1866	2.28	0.12%
As 188.979†	-8.4	-0.00115	mg/L	0.001913	-0.1147	0.19126	166.73%
B 249.677†	-4.8	-0.00075	mg/L	0.000748	-0.07463	0.074775	100.19%
Ba 233.527†	82.1	-0.00059	mg/L	0.000810	-0.05901	0.081024	137.29%
Be 313.042†	101.3	0.00017	mg/L	0.000010	0.01708	0.001041	6.10%
Ca 317.933†	1855.5	0.1508	mg/L	0.00258	15.08	0.258	1.71%
Cd 228.802†	26.6	0.00099	mg/L	0.000056	0.09940	0.005566	5.60%
Co 228.616†	406.9	0.01087	mg/L	0.000123	1.087	0.0123	1.13%
Cr 267.716†	514.0	0.07859	mg/L	0.001337	7.859	0.1337	1.70%
Cu 324.752†	128387.2	0.6291	mg/L	0.00148	62.91	0.148	0.23%
Fe 273.955†	152368.9	117.4	mg/L	0.61	11740	61.40	0.52%
K 766.490†	11838.8	6.818	mg/L	0.0247	681.8	2.47	0.36%
Mg 279.077†	2208.7	1.546	mg/L	0.0172	154.6	1.72	1.11%
Mn 257.610†	16186.7	0.4207	mg/L	0.00182	42.07	0.182	0.43%
Mo 202.031†	170.5	0.00891	mg/L	0.000337	0.8906	0.03370	3.78%
Na 589.592†	187108.1	21.62	mg/L	0.032	2162	3.20	0.15%
Na 330.237†	503.2	21.19	mg/L	0.357	2119	35.71	1.68%
Ni 231.604†	101.1	0.02138	mg/L	0.001367	2.138	0.1367	6.39%
Pb 220.353†	23.4	0.00742	mg/L	0.000296	0.7422	0.02960	3.99%
Sb 206.836†	32.2	0.01076	mg/L	0.000561	1.076	0.0561	5.21%
Se 196.026†	7.3	0.00252	mg/L	0.003271	0.2525	0.32709	129.54%
Si 288.158†	89.0	0.04059	mg/L	0.027461	4.059	2.7461	67.66%
Sr 189.927†	2.0	0.00057	mg/L	0.000498	0.05658	0.049833	88.07%
Sr 421.552†	246.7	0.00047	mg/L	0.000090	0.04733	0.008952	18.92%
Ti 334.903†	2546.9	0.1586	mg/L	0.00163	15.86	0.163	1.03%
Tl 190.801†	-26.2	-0.01433	mg/L	0.001551	-1.433	0.1551	10.83%
V 292.402†	27356.4	0.2510	mg/L	0.00254	25.10	0.254	1.01%
Zn 206.200†	8855.7	2.345	mg/L	0.0110	234.5	1.10	0.47%

Sequence No.: 2
 Sample ID: 17E0124-03
 Dilution: 10.000000X

DEL

Autosampler Location: 312
 Date Collected: 5/10/2017 10:57:56 AM
 Data Type: Original

Nebulizer Parameters: 17E0124-03

Analyte Back Pressure Flow
 All 161.0 kPa 0.65 L/min

Mean Data: 17E0124-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2225112.9	98.68	%	0.270			0.27%
ScR 361.383	242087.5	100.7	%	0.50			0.50%
Ag 328.068†	219.0	0.00150	mg/L	0.000532	0.01496 mg/L	0.005321	35.58%
Al 308.215†	443.6	0.2911	mg/L	0.00638	2.911 mg/L	0.0638	2.19%
As 188.979†	10.5	-0.00072	mg/L	0.002437	-0.00719 mg/L	0.024367	339.11%
B 249.677†	51.6	0.00730	mg/L	0.000966	0.07300 mg/L	0.009658	13.23%
Ba 233.527†	108.5	0.00098	mg/L	0.001230	0.00980 mg/L	0.012303	125.50%
Be 313.042†	63.0	0.00015	mg/L	0.000023	0.00146 mg/L	0.000231	15.85%
Ca 317.933†	29681.2	2.413	mg/L	0.0204	24.13 mg/L	0.204	0.85%
Cd 228.802†	-120.9	0.00166	mg/L	0.000037	0.01656 mg/L	0.000372	2.25%
Co 228.616†	2739.2	0.07428	mg/L	0.001585	0.7428 mg/L	0.01585	2.13%
Cr 267.716†	18952.3	2.769	mg/L	0.0386	27.69 mg/L	0.386	1.39%
Cu 324.752†	5292332.5	25.71	mg/L	0.643	257.1 mg/L	6.43	2.50%
Fe 273.955†	179609.8	138.4	mg/L	1.00	1384 mg/L	10.04	0.73%
K 766.490†	3204.5	1.845	mg/L	0.0110	18.45 mg/L	0.110	0.60%
Mg 279.077†	1261.3	0.8473	mg/L	0.01713	8.473 mg/L	0.1713	2.02%
Mn 257.610†	22690.4	0.5894	mg/L	0.00861	5.894 mg/L	0.0861	1.46%
Mo 202.031†	11499.8	0.6010	mg/L	0.01160	6.010 mg/L	0.1160	1.93%
Na 589.592†	24142.6	2.790	mg/L	0.0076	27.90 mg/L	0.076	0.27%
Na 330.237†	56.9	2.429	mg/L	0.1356	24.29 mg/L	1.356	5.58%
Ni 231.604†	29268.6	6.187	mg/L	0.0376	61.87 mg/L	0.376	0.61%
Pb 220.353†	434.5	0.02477	mg/L	0.000316	0.2477 mg/L	0.00316	1.28%
Sb 206.836†	203.8	0.02104	mg/L	0.001769	0.2104 mg/L	0.01769	8.41%
Se 196.026†	3.2	0.00249	mg/L	0.004375	0.02494 mg/L	0.043749	175.40%
Si 288.158†	53009.3	26.11	mg/L	5.099	261.1 mg/L	50.99	19.53%
Saturated within auto integration window (code 4)							
Sn 189.927†	960.3	0.2557	mg/L	0.00692	2.557 mg/L	0.0692	2.71%
Sr 421.552†	4582.7	0.00879	mg/L	0.000060	0.08791 mg/L	0.000600	0.68%
Ti 334.903†	634.8	0.03819	mg/L	0.000543	0.3819 mg/L	0.00543	1.42%
Tl 190.801†	-25.2	-0.01330	mg/L	0.001268	-0.1330 mg/L	0.01268	9.53%
V 292.402†	942.7	0.01757	mg/L	0.000698	0.1757 mg/L	0.00698	3.97%
Zn 206.200†	740.5	0.2012	mg/L	0.00484	2.012 mg/L	0.0484	2.40%

Sequence No.: 3

Autosampler Location: 313

Sample ID: BFE0201-BS1

Date Collected: 5/10/2017 11:04:56 AM

Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: BFE0201-BS1

Analyte	Back Pressure	Flow
All	159.0 kPa	0.65 L/min

Mean Data: BFE0201-BS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2265703.4	100.5	%	0.14			0.14%
ScR 361.383	242963.7	101.1	%	0.39			0.39%
Ag 328.068†	80793.5	0.5509	mg/L	0.00326	1.102 mg/L	0.0065	0.59%
Al 308.215†	2978.3	2.024	mg/L	0.0171	4.048 mg/L	0.0342	0.85%
As 188.979†	3519.4	2.069	mg/L	0.0216	4.137 mg/L	0.0432	1.04%
B 249.677†	4.1	-0.00085	mg/L	0.001255	-0.00171 mg/L	0.002511	146.92%
Ba 233.527†	10451.2	2.075	mg/L	0.0244	4.150 mg/L	0.0489	1.18%
Be 313.042†	224230.2	0.5289	mg/L	0.00532	1.058 mg/L	0.0106	1.00%
Ca 317.933†	125901.0	10.23	mg/L	0.028	20.47 mg/L	0.057	0.28%
Cd 228.802†	14965.6	0.5219	mg/L	0.00439	1.044 mg/L	0.0088	0.84%
Co 228.616†	18916.2	0.5186	mg/L	0.00295	1.037 mg/L	0.0059	0.57%
Cr 267.716†	3601.7	0.5242	mg/L	0.00528	1.048 mg/L	0.0106	1.01%
Cu 324.752†	101946.7	0.4952	mg/L	0.00108	0.9903 mg/L	0.00216	0.22%
Fe 273.955†	2697.7	2.075	mg/L	0.0226	4.149 mg/L	0.0451	1.09%
K 766.490†	17907.2	10.31	mg/L	0.058	20.63 mg/L	0.116	0.56%
Mg 279.077†	14659.4	10.73	mg/L	0.104	21.45 mg/L	0.209	0.97%
Mn 257.610†	19462.6	0.5056	mg/L	0.00478	1.011 mg/L	0.0096	0.95%
Mo 202.031†	23.3	0.00105	mg/L	0.000288	0.00210 mg/L	0.000577	27.42%
Na 589.592†	91506.9	10.58	mg/L	0.032	21.15 mg/L	0.065	0.31%
Na 330.237†	242.2	10.43	mg/L	0.136	20.85 mg/L	0.271	1.30%
Ni 231.604†	2521.3	0.5322	mg/L	0.00476	1.064 mg/L	0.0095	0.89%
Pb 220.353†	17572.5	2.131	mg/L	0.0135	4.262 mg/L	0.0270	0.63%
Sb 206.836†	19.7	-0.00032	mg/L	0.002549	-0.00063 mg/L	0.005098	804.25%
Se 196.026†	2614.9	2.099	mg/L	0.0180	4.198 mg/L	0.0361	0.86%
Si 288.158†	27.3	0.01343	mg/L	0.005953	0.02686 mg/L	0.011906	44.33%
Sn 189.927†	-20.6	-0.00380	mg/L	0.000184	-0.00759 mg/L	0.000368	4.84%
Sr 421.552†	275367.0	0.5282	mg/L	0.00173	1.056 mg/L	0.0035	0.33%
Ti 334.903†	14.2	0.00017	mg/L	0.000791	0.00033 mg/L	0.001582	477.14%
Tl 190.801†	4083.8	2.079	mg/L	0.0159	4.158 mg/L	0.0319	0.77%
V 292.402†	57026.8	0.5342	mg/L	0.00459	1.068 mg/L	0.0092	0.86%
Zn 206.200†	1986.0	0.5261	mg/L	0.00618	1.052 mg/L	0.0124	1.17%

Sequence No.: 4
Sample ID: SEQ-CCV2

Autosampler Location: 7
Date Collected: 5/10/2017 11:11:39 AM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCV2

Analyte	Back Pressure	Flow
All	159.0 kPa	0.65 L/min

Mean Data: SEQ-CCV2

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2200068.8	97.57	%	0.188			0.19%
ScR 361.383	237954.8	98.99	%	0.459			0.46%
Ag 328.068†	157059.2	1.071	mg/L	0.0057	1.071 mg/L	0.0057	0.53%
Al 308.215†	3034.3	2.034	mg/L	0.0068	2.034 mg/L	0.0068	0.33%
As 188.979†	3501.6	2.079	mg/L	0.0155	2.079 mg/L	0.0155	0.74%
B 249.677†	7258.2	1.029	mg/L	0.0031	1.029 mg/L	0.0031	0.30%
Ba 233.527†	5192.8	1.031	mg/L	0.0047	1.031 mg/L	0.0047	0.46%
Be 313.042†	440497.5	1.039	mg/L	0.0044	1.039 mg/L	0.0044	0.43%
Ca 317.933†	24392.0	1.983	mg/L	0.0063	1.983 mg/L	0.0063	0.32%
Cd 228.802†	29083.2	1.029	mg/L	0.0075	1.029 mg/L	0.0075	0.73%
Co 228.616†	37307.1	1.021	mg/L	0.0048	1.021 mg/L	0.0048	0.47%
Cr 267.716†	7073.2	1.031	mg/L	0.0044	1.031 mg/L	0.0044	0.43%
Cu 324.752†	209643.3	1.018	mg/L	0.0046	1.018 mg/L	0.0046	0.45%
Fe 273.955†	2598.4	1.995	mg/L	0.0080	1.995 mg/L	0.0080	0.40%
K 766.490†	34982.8	20.15	mg/L	0.039	20.15 mg/L	0.039	0.19%
Mg 279.077†	2835.3	2.084	mg/L	0.0133	2.084 mg/L	0.0133	0.64%
Mn 257.610†	36910.9	0.9585	mg/L	0.00377	0.9585 mg/L	0.00377	0.39%
Mo 202.031†	19481.6	1.018	mg/L	0.0036	1.018 mg/L	0.0036	0.36%
Na 589.592†	448322.4	51.81	mg/L	0.097	51.81 mg/L	0.097	0.19%
Na 330.237†	1180.0	51.63	mg/L	0.293	51.63 mg/L	0.293	0.57%
Ni 231.604†	4941.0	1.045	mg/L	0.0030	1.045 mg/L	0.0030	0.28%
Pb 220.353†	17214.3	2.088	mg/L	0.0094	2.088 mg/L	0.0094	0.45%
Sb 206.836†	6351.3	2.129	mg/L	0.0119	2.129 mg/L	0.0119	0.56%
Se 196.026†	2609.2	2.094	mg/L	0.0112	2.094 mg/L	0.0112	0.53%
Si 288.158†	4282.9	2.090	mg/L	0.0094	2.090 mg/L	0.0094	0.45%
Sn 189.927†	3839.5	1.022	mg/L	0.0062	1.022 mg/L	0.0062	0.61%
Sr 421.552†	541984.5	1.040	mg/L	0.0024	1.040 mg/L	0.0024	0.23%
Ti 334.903†	16434.9	1.022	mg/L	0.0028	1.022 mg/L	0.0028	0.27%
Tl 190.801†	4062.8	2.063	mg/L	0.0067	2.063 mg/L	0.0067	0.32%
V 292.402†	111320.6	1.043	mg/L	0.0050	1.043 mg/L	0.0050	0.48%
Zn 206.200†	3930.8	1.041	mg/L	0.0075	1.041 mg/L	0.0075	0.72%

Sequence No.: 5
 Sample ID: SEQ-CCB2

Autosampler Location: 1
 Date Collected: 5/10/2017 11:18:24 AM
 Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCB2

Analyte Back Pressure Flow
 All 158.0 kPa 0.65 L/min

Mean Data: SEQ-CCB2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2241700.6	99.41	%	0.216			0.22%
ScR 361.383	240402.9	100.0	%	0.10			0.10%
Ag 328.068†	3.7	0.00003	mg/L	0.000364	0.00003 mg/L	0.000364	>999.9%
Al 308.215†	12.1	0.00821	mg/L	0.010452	0.00821 mg/L	0.010452	127.23%
As 188.979†	-0.9	-0.00058	mg/L	0.001044	-0.00058 mg/L	0.001044	180.11%
B 249.677†	-0.4	-0.00005	mg/L	0.000256	-0.00005 mg/L	0.000256	501.95%
Ba 233.527†	-1.0	-0.00020	mg/L	0.000349	-0.00020 mg/L	0.000349	177.83%
Be 313.042†	40.3	0.00010	mg/L	0.000009	0.00010 mg/L	0.000009	9.19%
Ca 317.933†	10.9	0.00088	mg/L	0.001945	0.00088 mg/L	0.001945	219.82%
Cd 228.802†	10.5	0.00038	mg/L	0.000079	0.00038 mg/L	0.000079	20.64%
Co 228.616†	1.0	0.00003	mg/L	0.000098	0.00003 mg/L	0.000098	340.73%
Cr 267.716†	-6.7	-0.00097	mg/L	0.000846	-0.00097 mg/L	0.000846	87.00%
Cu 324.752†	109.1	0.00053	mg/L	0.000110	0.00053 mg/L	0.000110	20.82%
Fe 273.955†	6.2	0.00475	mg/L	0.001067	0.00475 mg/L	0.001067	22.47%
K 766.490†	5.9	0.00337	mg/L	0.020854	0.00337 mg/L	0.020854	618.36%
Mg 279.077†	1.1	0.00078	mg/L	0.006639	0.00078 mg/L	0.006639	853.34%
Mn 257.610†	13.3	0.00034	mg/L	0.000143	0.00034 mg/L	0.000143	41.64%
Mo 202.031†	8.5	0.00045	mg/L	0.000267	0.00045 mg/L	0.000267	59.85%
Na 589.592†	6.3	0.00072	mg/L	0.005148	0.00072 mg/L	0.005148	712.51%
Na 330.237†	-11.4	-0.5017	mg/L	0.43052	-0.5017 mg/L	0.43052	85.82%
Ni 231.604†	-1.4	-0.00030	mg/L	0.001541	-0.00030 mg/L	0.001541	520.08%
Pb 220.353†	1.7	0.00020	mg/L	0.000410	0.00020 mg/L	0.000410	203.92%
Sb 206.836†	7.2	0.00242	mg/L	0.001763	0.00242 mg/L	0.001763	72.75%
Se 196.026†	3.4	0.00275	mg/L	0.003653	0.00275 mg/L	0.003653	132.97%
Si 288.158†	-7.0	-0.00343	mg/L	0.001721	-0.00343 mg/L	0.001721	50.14%
Sn 189.927†	0.6	0.00016	mg/L	0.000889	0.00016 mg/L	0.000889	560.62%
Sr 421.552†	37.2	0.00007	mg/L	0.000021	0.00007 mg/L	0.000021	29.79%
Ti 334.903†	-14.6	-0.00091	mg/L	0.000692	-0.00091 mg/L	0.000692	76.29%
Tl 190.801†	3.7	0.00189	mg/L	0.003262	0.00189 mg/L	0.003262	172.47%
V 292.402†	5.5	0.00005	mg/L	0.000124	0.00005 mg/L	0.000124	265.33%
Zn 206.200†	3.4	0.00091	mg/L	0.000989	0.00091 mg/L	0.000989	108.62%

Sequence No.: 6

Autosampler Location: 314

Sample ID: BFE0167-BLK1

Date Collected: 5/10/2017 11:22:24 AM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BFE0167-BLK1

Analyte	Back Pressure	Flow
All	159.0 kPa	0.65 L/min

Mean Data: BFE0167-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2262405.0	100.3	%	0.64				0.64%
ScR 361.383	238476.2	99.21	%	1.912				1.93%
Ag 328.068†	-8.8	-0.00006	mg/L	0.000470	-0.00006	mg/L	0.000470	782.55%
Al 308.215†	36.6	0.02494	mg/L	0.009238	0.02494	mg/L	0.009238	37.04%
As 188.979†	-2.4	-0.00136	mg/L	0.001219	-0.00136	mg/L	0.001219	89.99%
B 249.677†	-1.8	-0.00026	mg/L	0.000489	-0.00026	mg/L	0.000489	186.75%
Ba 233.527†	3.7	0.00074	mg/L	0.000312	0.00074	mg/L	0.000312	42.44%
Be 313.042†	30.0	0.00007	mg/L	0.000045	0.00007	mg/L	0.000045	63.01%
Ca 317.933†	252.1	0.02050	mg/L	0.000803	0.02050	mg/L	0.000803	3.92%
Cd 228.802†	3.9	0.00015	mg/L	0.000110	0.00015	mg/L	0.000110	72.34%
Co 228.616†	-9.5	-0.00027	mg/L	0.000182	-0.00027	mg/L	0.000182	68.46%
Cr 267.716†	-0.6	-0.00008	mg/L	0.001495	-0.00008	mg/L	0.001495	>999.9%
Cu 324.752†	196.2	0.00095	mg/L	0.000064	0.00095	mg/L	0.000064	6.67%
Fe 273.955†	2.8	0.00217	mg/L	0.002496	0.00217	mg/L	0.002496	115.18%
K 766.490†	4.2	0.00244	mg/L	0.015746	0.00244	mg/L	0.015746	646.32%
Mg 279.077†	18.6	0.01360	mg/L	0.002035	0.01360	mg/L	0.002035	14.96%
Mn 257.610†	11.0	0.00029	mg/L	0.000139	0.00029	mg/L	0.000139	48.63%
Mo 202.031†	8.8	0.00046	mg/L	0.000157	0.00046	mg/L	0.000157	34.11%
Na 589.592†	-6.4	-0.00073	mg/L	0.000675	-0.00073	mg/L	0.000675	91.90%
Na 330.237†	4.4	0.1954	mg/L	0.12834	0.1954	mg/L	0.12834	65.68%
Ni 231.604†	-1.0	-0.00022	mg/L	0.002335	-0.00022	mg/L	0.002335	>999.9%
Pb 220.353†	3.2	0.00039	mg/L	0.000441	0.00039	mg/L	0.000441	111.94%
Sb 206.836†	3.2	0.00107	mg/L	0.001287	0.00107	mg/L	0.001287	119.81%
Se 196.026†	-1.5	-0.00118	mg/L	0.001959	-0.00118	mg/L	0.001959	165.94%
Si 288.158†	-7.5	-0.00373	mg/L	0.002300	-0.00373	mg/L	0.002300	61.63%
Sn 189.927†	-1.4	-0.00036	mg/L	0.000613	-0.00036	mg/L	0.000613	170.14%
Sr 421.552†	41.6	0.00008	mg/L	0.000011	0.00008	mg/L	0.000011	13.19%
Ti 334.903†	45.9	0.00285	mg/L	0.000883	0.00285	mg/L	0.000883	30.96%
Tl 190.801†	3.6	0.00185	mg/L	0.002887	0.00185	mg/L	0.002887	155.77%
V 292.402†	-5.8	-0.00006	mg/L	0.000293	-0.00006	mg/L	0.000293	519.57%
Zn 206.200†	4.0	0.00105	mg/L	0.000338	0.00105	mg/L	0.000338	32.25%

Sequence No.: 7

Sample ID: 17D0421-01

Autosampler Location: 315

Date Collected: 5/10/2017 11:26:25 AM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 17D0421-01

Analyte	Back Pressure	Flow
All	159.0 kPa	0.65 L/min

Mean Data: 17D0421-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2208286.8	97.93	%	0.386				0.39%
ScR 361.383	246782.9	102.7	%	0.94				0.92%
Ag 328.068†	1547.2	0.01055	mg/L	0.000294	0.01055	mg/L	0.000294	2.79%
Al 308.215†	1188.0	0.8102	mg/L	0.01397	0.8102	mg/L	0.01397	1.72%
As 188.979†	135.6	0.07869	mg/L	0.001713	0.07869	mg/L	0.001713	2.18%
B 249.677†	1214.9	0.1725	mg/L	0.00250	0.1725	mg/L	0.00250	1.45%
Ba 233.527†	15.1	0.00261	mg/L	0.000778	0.00261	mg/L	0.000778	29.75%
Be 313.042†	72.1	0.00017	mg/L	0.000041	0.00017	mg/L	0.000041	24.62%
Ca 317.933†	307200.9	24.97	mg/L	0.196	24.97	mg/L	0.196	0.78%
Cd 228.802†	2229.9	0.07945	mg/L	0.000469	0.07945	mg/L	0.000469	0.59%
Co 228.616†	62.6	0.00165	mg/L	0.000182	0.00165	mg/L	0.000182	11.04%
Cr 267.716†	60.7	0.00619	mg/L	0.000235	0.00619	mg/L	0.000235	3.80%
Cu 324.752†	91104.9	0.4418	mg/L	0.00128	0.4418	mg/L	0.00128	0.29%
Fe 273.955†	3369.7	2.596	mg/L	0.0330	2.596	mg/L	0.0330	1.27%
K 766.490†	168096.8	96.81	mg/L	0.247	96.81	mg/L	0.247	0.26%
Mg 279.077†	39886.3	29.18	mg/L	0.044	29.18	mg/L	0.044	0.15%
Mn 257.610†	5327.4	0.1382	mg/L	0.00009	0.1382	mg/L	0.00009	0.07%
Mo 202.031†	139.4	0.00694	mg/L	0.000384	0.00694	mg/L	0.000384	5.53%
Na 589.592†	1677135.2	193.8	mg/L	2.02	193.8	mg/L	2.02	1.04%
Na 330.237†	4440.4	192.4	mg/L	0.72	192.4	mg/L	0.72	0.37%
Ni 231.604†	28.6	0.00605	mg/L	0.001321	0.00605	mg/L	0.001321	21.84%
Pb 220.353†	47.6	0.00544	mg/L	0.000106	0.00544	mg/L	0.000106	1.95%
Sb 206.836†	2.4	0.00065	mg/L	0.000865	0.00065	mg/L	0.000865	133.28%
Se 196.026†	32.8	0.02621	mg/L	0.004456	0.02621	mg/L	0.004456	17.00%
Si 288.158†	1186.8	0.5839	mg/L	0.00743	0.5839	mg/L	0.00743	1.27%
Sn 189.927†	-18.1	-0.00089	mg/L	0.001185	-0.00089	mg/L	0.001185	132.91%
Sr 421.552†	127985.4	0.2455	mg/L	0.00045	0.2455	mg/L	0.00045	0.18%
Ti 334.903†	591.0	0.03533	mg/L	0.000166	0.03533	mg/L	0.000166	0.47%
Tl 190.801†	-3.4	-0.00174	mg/L	0.001370	-0.00174	mg/L	0.001370	78.53%
V 292.402†	490.8	0.00452	mg/L	0.000098	0.00452	mg/L	0.000098	2.17%
Zn 206.200†	24531.9	6.497	mg/L	0.0270	6.497	mg/L	0.0270	0.42%

Sequence No.: 8

Sample ID: 17D0447-03

Autosampler Location: 316

Date Collected: 5/10/2017 11:30:41 AM

Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: 17D0447-03

Analyte	Back Pressure	Flow
All	159.0 kPa	0.65 L/min

Mean Data: 17D0447-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2258782.1	100.2	%	0.97				0.97%
ScR 361.383	246503.5	102.5	%	0.45				0.44%
Ag 328.068†	181.4	0.00134	mg/L	0.000278	0.00268	mg/L	0.000557	20.80%
Al 308.215†	84484.2	57.62	mg/L	0.029	115.2	mg/L	0.06	0.05%
As 188.979†	-15.5	0.08002	mg/L	0.001043	0.1600	mg/L	0.00209	1.30%
B 249.677†	335.8	0.04674	mg/L	0.001804	0.09349	mg/L	0.003608	3.86%
Ba 233.527†	5102.3	0.9901	mg/L	0.00316	1.980	mg/L	0.0063	0.32%
Be 313.042†	578.4	0.00122	mg/L	0.000027	0.00245	mg/L	0.000054	2.22%
Ca 317.933†	408626.6	33.22	mg/L	0.123	66.43	mg/L	0.246	0.37%
Cd 228.802†	136.7	0.00518	mg/L	0.000139	0.01036	mg/L	0.000278	2.68%
Co 228.616†	2129.4	0.05159	mg/L	0.000649	0.1032	mg/L	0.00130	1.26%
Cr 267.716†	1283.5	0.1902	mg/L	0.00131	0.3804	mg/L	0.00262	0.69%
Cu 324.752†	79028.5	0.3905	mg/L	0.00301	0.7810	mg/L	0.00601	0.77%
Fe 273.955†	207068.9	159.5	mg/L	0.46	319.0	mg/L	0.93	0.29%
K 766.490†	7226.2	4.162	mg/L	0.0066	8.323	mg/L	0.0133	0.16%
Mg 279.077†	34628.4	25.28	mg/L	0.086	50.56	mg/L	0.172	0.34%
Mn 257.610†	809995.9	21.03	mg/L	0.031	42.05	mg/L	0.061	0.15%
Mo 202.031†	242.7	0.01222	mg/L	0.000166	0.02444	mg/L	0.000332	1.36%
Na 589.592†	22871.2	2.643	mg/L	0.0189	5.286	mg/L	0.0379	0.72%
Na 330.237†	57.0	2.417	mg/L	0.4200	4.835	mg/L	0.8401	17.38%
Ni 231.604†	1143.1	0.2417	mg/L	0.00225	0.4833	mg/L	0.00449	0.93%
Pb 220.353†	2237.3	0.2872	mg/L	0.00206	0.5745	mg/L	0.00413	0.72%
Sb 206.836†	48.1	0.01577	mg/L	0.002281	0.03154	mg/L	0.004562	14.46%
Se 196.026†	33.6	0.01716	mg/L	0.005338	0.03432	mg/L	0.010676	31.11%
Si 288.158†	7358.2	3.549	mg/L	0.0136	7.098	mg/L	0.0271	0.38%
Sn 189.927†	14.4	0.00905	mg/L	0.001243	0.01811	mg/L	0.002485	13.73%
Sr 421.552†	132708.8	0.2546	mg/L	0.00040	0.5092	mg/L	0.00081	0.16%
Ti 334.903†	58938.2	3.668	mg/L	0.0039	7.336	mg/L	0.0077	0.11%
Tl 190.801†	-27.3	-0.01546	mg/L	0.000997	-0.03092	mg/L	0.001994	6.45%
V 292.402†	35932.6	0.3308	mg/L	0.00194	0.6615	mg/L	0.00388	0.59%
Zn 206.200†	8169.8	2.164	mg/L	0.0045	4.329	mg/L	0.0090	0.21%

Sequence No.: 9

Autosampler Location: 317

Sample ID: 17D0447-04

Date Collected: 5/10/2017 11:34:41 AM

Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: 17D0447-04

Analyte	Back Pressure	Flow
All	158.0 kPa	0.65 L/min

Mean Data: 17D0447-04

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2243878.0	99.51	%	0.325			0.33%
ScR 361.383	243108.4	101.1	%	0.77			0.76%
Ag 328.068†	-9.8	0.00003	mg/L	0.000356	0.00005 mg/L	0.000712	>999.9%
Al 308.215†	107896.7	73.59	mg/L	0.177	147.2 mg/L	0.35	0.24%
As 188.979†	-92.1	0.06651	mg/L	0.002433	0.1330 mg/L	0.00487	3.66%
B 249.677†	1372.8	0.1937	mg/L	0.00114	0.3874 mg/L	0.00228	0.59%
Ba 233.527†	2790.6	0.5322	mg/L	0.00140	1.064 mg/L	0.0028	0.26%
Be 313.042†	620.2	0.00131	mg/L	0.000048	0.00262 mg/L	0.000096	3.67%
Ca 317.933†	581200.0	47.25	mg/L	0.145	94.49 mg/L	0.291	0.31%
Cd 228.802†	143.7	0.00573	mg/L	0.000183	0.01146 mg/L	0.000365	3.19%
Co 228.616†	2116.2	0.04888	mg/L	0.000259	0.09777 mg/L	0.000518	0.53%
Cr 267.716†	2073.1	0.3040	mg/L	0.00136	0.6081 mg/L	0.00272	0.45%
Cu 324.752†	150645.0	0.7376	mg/L	0.00163	1.475 mg/L	0.0033	0.22%
Fe 273.955†	197685.7	152.3	mg/L	0.43	304.6 mg/L	0.86	0.28%
K 766.490†	15324.5	8.826	mg/L	0.0274	17.65 mg/L	0.055	0.31%
Mg 279.077†	51520.9	37.61	mg/L	0.064	75.21 mg/L	0.128	0.17%
Mn 257.610†	62032.2	1.610	mg/L	0.0014	3.221 mg/L	0.0028	0.09%
Mo 202.031†	518.6	0.02644	mg/L	0.000303	0.05288 mg/L	0.000606	1.15%
Na 589.592†	369068.7	42.65	mg/L	0.109	85.30 mg/L	0.218	0.26%
Na 330.237†	965.0	42.25	mg/L	0.387	84.50 mg/L	0.774	0.92%
Ni 231.604†	928.6	0.1963	mg/L	0.00161	0.3927 mg/L	0.00322	0.82%
Pb 220.353†	4027.6	0.5085	mg/L	0.00394	1.017 mg/L	0.0079	0.78%
Sb 206.836†	57.1	0.01724	mg/L	0.001565	0.03448 mg/L	0.003130	9.08%
Se 196.026†	29.9	0.01152	mg/L	0.005121	0.02303 mg/L	0.010241	44.46%
Si 288.158†	7338.5	3.512	mg/L	0.0267	7.024 mg/L	0.0533	0.76%
Sn 189.927†	91.1	0.03165	mg/L	0.000695	0.06331 mg/L	0.001390	2.20%
Sr 421.552†	231331.9	0.4438	mg/L	0.00096	0.8875 mg/L	0.00192	0.22%
Ti 334.903†	79986.3	4.978	mg/L	0.0050	9.956 mg/L	0.0100	0.10%
Tl 190.801†	-27.4	-0.01537	mg/L	0.002278	-0.03075 mg/L	0.004556	14.82%
V 292.402†	32868.2	0.2994	mg/L	0.00064	0.5988 mg/L	0.00128	0.21%
Zn 206.200†	11243.9	2.979	mg/L	0.0205	5.957 mg/L	0.0411	0.69%

Sequence No.: 10

Sample ID: 17D0447-06

Autosampler Location: 318

Date Collected: 5/10/2017 11:38:41 AM

Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: 17D0447-06

Analyte	Back Pressure	Flow
All	158.0 kPa	0.65 L/min

Mean Data: 17D0447-06

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2247804.3	99.68	%	0.354				0.36%
ScR 361.383	246174.1	102.4	%	0.35				0.35%
Ag 328.068†	39.9	0.00038	mg/L	0.000238	0.00077	mg/L	0.000475	61.94%
Al 308.215†	113332.7	77.30	mg/L	0.289	154.6	mg/L	0.58	0.37%
As 188.979†	-43.1	0.09112	mg/L	0.000684	0.1822	mg/L	0.00137	0.75%
B 249.677†	553.8	0.07744	mg/L	0.001414	0.1549	mg/L	0.00283	1.83%
Ba 233.527†	4026.6	0.7737	mg/L	0.00744	1.547	mg/L	0.0149	0.96%
Be 313.042†	706.8	0.00150	mg/L	0.000014	0.00300	mg/L	0.000028	0.95%
Ca 317.933†	642180.6	52.20	mg/L	0.179	104.4	mg/L	0.36	0.34%
Cd 228.802†	148.3	0.00572	mg/L	0.000062	0.01143	mg/L	0.000123	1.08%
Co 228.616†	2420.2	0.05748	mg/L	0.000362	0.1150	mg/L	0.00072	0.63%
Cr 267.716†	1567.9	0.2316	mg/L	0.00252	0.4631	mg/L	0.00504	1.09%
Cu 324.752†	110728.7	0.5451	mg/L	0.00179	1.090	mg/L	0.0036	0.33%
Fe 273.955†	232707.9	179.3	mg/L	0.99	358.5	mg/L	1.98	0.55%
K 766.490†	10044.2	5.785	mg/L	0.0201	11.57	mg/L	0.040	0.35%
Mg 279.077†	45795.2	33.43	mg/L	0.086	66.85	mg/L	0.172	0.26%
Mn 257.610†	570393.1	14.81	mg/L	0.016	29.61	mg/L	0.032	0.11%
Mo 202.031†	344.6	0.01728	mg/L	0.000168	0.03456	mg/L	0.000336	0.97%
Na 589.592†	37899.7	4.380	mg/L	0.0100	8.760	mg/L	0.0200	0.23%
Na 330.237†	94.1	4.213	mg/L	0.3919	8.425	mg/L	0.7838	9.30%
Ni 231.604†	1142.8	0.2416	mg/L	0.00213	0.4832	mg/L	0.00426	0.88%
Pb 220.353†	2482.2	0.3223	mg/L	0.00122	0.6447	mg/L	0.00243	0.38%
Sb 206.836†	46.1	0.01492	mg/L	0.002768	0.02984	mg/L	0.005535	18.55%
Se 196.026†	29.8	0.01084	mg/L	0.008502	0.02168	mg/L	0.017005	78.44%
Si 288.158†	7260.1	3.477	mg/L	0.0274	6.953	mg/L	0.0548	0.79%
Sn 189.927†	16.2	0.01251	mg/L	0.000935	0.02502	mg/L	0.001870	7.48%
Sr 421.552†	208911.6	0.4008	mg/L	0.00072	0.8015	mg/L	0.00143	0.18%
Ti 334.903†	77449.6	4.820	mg/L	0.0128	9.639	mg/L	0.0256	0.27%
Tl 190.801†	-33.8	-0.01891	mg/L	0.002277	-0.03783	mg/L	0.004554	12.04%
V 292.402†	39457.5	0.3615	mg/L	0.00061	0.7229	mg/L	0.00123	0.17%
Zn 206.200†	8925.3	2.364	mg/L	0.0142	4.729	mg/L	0.0284	0.60%

Sequence No.: 11
 Sample ID: 17D0447-08
 Dilution: 2.000000X

DEL

Autosampler Location: 319
 Date Collected: 5/10/2017 11:42:41 AM
 Data Type: Original

Nebulizer Parameters: 17D0447-08

Analyte Back Pressure Flow
 All 159.0 kPa 0.65 L/min

Mean Data: 17D0447-08

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2226981.1	98.76	%	0.703			0.71%
ScR 361.383	242016.8	100.7	%	0.36			0.36%
Ag 328.068†	15.5	0.00021	mg/L	0.000176	0.00041 mg/L	0.000352	85.02%
Al 308.215†	104870.9	71.53	mg/L	0.191	143.1 mg/L	0.38	0.27%
As 188.979†	82.2	0.1517	mg/L	0.00288	0.3033 mg/L	0.00577	1.90%
B 249.677†	1748.6	0.2472	mg/L	0.00254	0.4944 mg/L	0.00509	1.03%
Ba 233.527†	2965.3	0.5505	mg/L	0.00346	1.101 mg/L	0.0069	0.63%
Be 313.042†	627.4	0.00133	mg/L	0.000023	0.00266 mg/L	0.000047	1.75%
Ca 317.933†	413514.1	33.61	mg/L	0.140	67.23 mg/L	0.280	0.42%
Cd 228.802†	180.2	0.00625	mg/L	0.000132	0.01249 mg/L	0.000263	2.11%
Co 228.616†	1980.3	0.04651	mg/L	0.000364	0.09302 mg/L	0.000728	0.78%
Cr 267.716†	1496.3	0.2240	mg/L	0.00056	0.4479 mg/L	0.00112	0.25%
Cu 324.752†	89401.6	0.4458	mg/L	0.00522	0.8916 mg/L	0.01044	1.17%
Fe 273.955†	345961.4	266.5	mg/L	1.70	533.0 mg/L	3.41	0.64%
K 766.490†	13443.0	7.742	mg/L	0.0336	15.48 mg/L	0.067	0.43%
Mg 279.077†	50664.1	36.91	mg/L	0.120	73.82 mg/L	0.239	0.32%
Mn 257.610†	92200.3	2.394	mg/L	0.0103	4.788 mg/L	0.0207	0.43%
Mo 202.031†	318.7	0.01618	mg/L	0.000221	0.03237 mg/L	0.000441	1.36%
Na 589.592†	459617.0	53.12	mg/L	0.082	106.2 mg/L	0.16	0.15%
Na 330.237†	1211.9	53.07	mg/L	0.578	106.1 mg/L	1.16	1.09%
Ni 231.604†	853.5	0.1805	mg/L	0.00226	0.3609 mg/L	0.00452	1.25%
Pb 220.353†	4815.2	0.6036	mg/L	0.00548	1.207 mg/L	0.0110	0.91%
Sb 206.836†	74.4	0.02430	mg/L	0.002335	0.04860 mg/L	0.004670	9.61%
Se 196.026†	22.3	0.00579	mg/L	0.003539	0.01158 mg/L	0.007079	61.14%
Si 288.158†	7837.9	3.773	mg/L	0.0245	7.547 mg/L	0.0490	0.65%
Sn 189.927†	42.8	0.01668	mg/L	0.000481	0.03335 mg/L	0.000962	2.89%
Sr 421.552†	243250.7	0.4666	mg/L	0.00045	0.9333 mg/L	0.00090	0.10%
Ti 334.903†	68085.7	4.238	mg/L	0.0016	8.475 mg/L	0.0033	0.04%
Tl 190.801†	-47.5	-0.02571	mg/L	0.001678	-0.05142 mg/L	0.003355	6.53%
V 292.402†	35761.5	0.3223	mg/L	0.00289	0.6447 mg/L	0.00577	0.90%
Zn 206.200†	9921.8	2.628	mg/L	0.0109	5.257 mg/L	0.0217	0.41%

Sequence No.: 12

Autosampler Location: 320

Sample ID: BFE0136-DUP1

Date Collected: 5/10/2017 11:46:41 AM

Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: BFE0136-DUP1

Analyte	Back Pressure	Flow
All	159.0 kPa	0.65 L/min

Mean Data: BFE0136-DUP1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2248969.4	99.74	%	0.271			0.27%
ScR 361.383	247288.5	102.9	%	0.92			0.90%
Ag 328.068†	-55.5	-0.00030	mg/L	0.000198	-0.00148 mg/L	0.000989	66.64%
Al 308.215†	110421.4	75.31	mg/L	0.085	376.6 mg/L	0.43	0.11%
As 188.979†	-242.3	0.00954	mg/L	0.003279	0.04769 mg/L	0.016393	34.38%
B 249.677†	114.6	0.01488	mg/L	0.000235	0.07439 mg/L	0.001173	1.58%
Ba 233.527†	1850.2	0.3477	mg/L	0.00172	1.738 mg/L	0.0086	0.50%
Be 313.042†	614.1	0.00129	mg/L	0.000057	0.00643 mg/L	0.000284	4.41%
Ca 317.933†	407212.7	33.10	mg/L	0.084	165.5 mg/L	0.42	0.25%
Cd 228.802†	45.0	0.00282	mg/L	0.000065	0.01412 mg/L	0.000326	2.31%
Co 228.616†	1722.9	0.03595	mg/L	0.000413	0.1797 mg/L	0.00207	1.15%
Cr 267.716†	684.7	0.1016	mg/L	0.00007	0.5078 mg/L	0.00035	0.07%
Cu 324.752†	32350.5	0.1621	mg/L	0.00065	0.8107 mg/L	0.00325	0.40%
Fe 273.955†	177592.6	136.8	mg/L	0.84	684.0 mg/L	4.22	0.62%
K 766.490†	5315.1	3.061	mg/L	0.0251	15.31 mg/L	0.125	0.82%
Mg 279.077†	47179.1	34.44	mg/L	0.018	172.2 mg/L	0.09	0.05%
Mn 257.610†	80038.2	2.078	mg/L	0.0087	10.39 mg/L	0.044	0.42%
Mo 202.031†	86.9	0.00408	mg/L	0.000106	0.02042 mg/L	0.000529	2.59%
Na 589.592†	6824.8	0.7887	mg/L	0.00399	3.944 mg/L	0.0200	0.51%
Na 330.237†	-10.8	0.6979	mg/L	0.06162	3.489 mg/L	0.3081	8.83%
Ni 231.604†	729.1	0.1541	mg/L	0.00285	0.7707 mg/L	0.01426	1.85%
Pb 220.353†	6.8	0.02201	mg/L	0.001628	0.1100 mg/L	0.00814	7.40%
Sb 206.836†	22.3	0.00904	mg/L	0.001701	0.04519 mg/L	0.008504	18.82%
Se 196.026†	21.8	0.00478	mg/L	0.007636	0.02391 mg/L	0.038180	159.69%
Si 288.158†	6715.4	3.180	mg/L	0.0188	15.90 mg/L	0.094	0.59%
Sn 189.927†	-53.5	-0.00903	mg/L	0.000531	-0.04516 mg/L	0.002656	5.88%
Sr 421.552†	91710.8	0.1759	mg/L	0.00017	0.8797 mg/L	0.00086	0.10%
Ti 334.903†	99083.6	6.168	mg/L	0.0084	30.84 mg/L	0.042	0.14%
Tl 190.801†	-11.1	-0.00689	mg/L	0.002372	-0.03444 mg/L	0.011860	34.44%
V 292.402†	28661.0	0.2591	mg/L	0.00164	1.295 mg/L	0.0082	0.63%
Zn 206.200†	1301.0	0.3452	mg/L	0.00324	1.726 mg/L	0.0162	0.94%

Sequence No.: 13

Autosampler Location: 321

Sample ID: 17E0011-01

Date Collected: 5/10/2017 11:50:40 AM

Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: 17E0011-01

Analyte	Back Pressure	Flow
All	160.0 kPa	0.65 L/min

Mean Data: 17E0011-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2208565.3	97.94	%	0.474				0.48%
ScR 361.383	244798.7	101.8	%	2.04				2.01%
Ag 328.068†	-38.3	-0.00018	mg/L	0.000172	-0.00092	mg/L	0.000862	94.05%
Al 308.215†	108884.0	74.27	mg/L	0.035	371.3	mg/L	0.18	0.05%
As 188.979†	-229.6	0.00960	mg/L	0.001013	0.04801	mg/L	0.005065	10.55%
B 249.677†	100.3	0.01292	mg/L	0.001420	0.06459	mg/L	0.007101	10.99%
Ba 233.527†	1678.1	0.3138	mg/L	0.00746	1.569	mg/L	0.0373	2.38%
Be 313.042†	560.7	0.00117	mg/L	0.000035	0.00584	mg/L	0.000177	3.02%
Ca 317.933†	371783.8	30.22	mg/L	0.155	151.1	mg/L	0.77	0.51%
Cd 228.802†	48.3	0.00285	mg/L	0.000212	0.01427	mg/L	0.001062	7.44%
Co 228.616†	1650.2	0.03452	mg/L	0.000817	0.1726	mg/L	0.00408	2.37%
Cr 267.716†	598.6	0.08907	mg/L	0.001355	0.4454	mg/L	0.00677	1.52%
Cu 324.752†	28383.3	0.1429	mg/L	0.00084	0.7143	mg/L	0.00420	0.59%
Fe 273.955†	175183.9	135.0	mg/L	1.31	674.8	mg/L	6.53	0.97%
K 766.490†	5796.1	3.338	mg/L	0.0196	16.69	mg/L	0.098	0.59%
Mg 279.077†	45054.3	32.89	mg/L	0.056	164.4	mg/L	0.28	0.17%
Mn 257.610†	82482.2	2.141	mg/L	0.0175	10.71	mg/L	0.088	0.82%
Mo 202.031†	93.1	0.00445	mg/L	0.000203	0.02223	mg/L	0.001017	4.58%
Na 589.592†	7361.2	0.8507	mg/L	0.00348	4.254	mg/L	0.0174	0.41%
Na 330.237†	-13.4	0.5261	mg/L	0.29544	2.630	mg/L	1.4772	56.16%
Ni 231.604†	567.4	0.1200	mg/L	0.00219	0.5998	mg/L	0.01096	1.83%
Pb 220.353†	-5.9	0.02018	mg/L	0.000616	0.1009	mg/L	0.00308	3.05%
Sb 206.836†	29.5	0.01156	mg/L	0.003041	0.05778	mg/L	0.015207	26.32%
Se 196.026†	16.4	0.00062	mg/L	0.006830	0.00309	mg/L	0.034150	>999.9%
Si 288.158†	6765.7	3.211	mg/L	0.0697	16.06	mg/L	0.348	2.17%
Sn 189.927†	-44.5	-0.00708	mg/L	0.000728	-0.03542	mg/L	0.003639	10.27%
Sr 421.552†	87417.1	0.1677	mg/L	0.00043	0.8385	mg/L	0.00214	0.25%
Ti 334.903†	94168.2	5.862	mg/L	0.0165	29.31	mg/L	0.083	0.28%
Tl 190.801†	-26.3	-0.01458	mg/L	0.003114	-0.07288	mg/L	0.015568	21.36%
V 292.402†	27318.9	0.2467	mg/L	0.00113	1.234	mg/L	0.0057	0.46%
Zn 206.200†	1234.1	0.3275	mg/L	0.00568	1.637	mg/L	0.0284	1.73%

Sequence No.: 14

Sample ID: BFE0136-MS1

Autosampler Location: 322

Date Collected: 5/10/2017 11:54:39 AM

Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: BFE0136-MS1

Analyte	Back Pressure	Flow
All	158.0 kPa	0.65 L/min

Mean Data: BFE0136-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2239823.1	99.33	%	3.364				3.39%
ScR 361.383	246166.4	102.4	%	0.27				0.26%
Ag 328.068†	30149.0	0.2056	mg/L	0.00499	1.028	mg/L	0.0250	2.43%
Al 308.215†	110135.1	75.12	mg/L	0.125	375.6	mg/L	0.63	0.17%
As 188.979†	1177.2	0.8294	mg/L	0.02059	4.147	mg/L	0.1029	2.48%
B 249.677†	102.6	0.01273	mg/L	0.000728	0.06363	mg/L	0.003638	5.72%
Ba 233.527†	5673.9	1.107	mg/L	0.0053	5.533	mg/L	0.0264	0.48%
Be 313.042†	89826.1	0.2117	mg/L	0.00219	1.059	mg/L	0.0109	1.03%
Ca 317.933†	433086.6	35.21	mg/L	0.200	176.0	mg/L	1.00	0.57%
Cd 228.802†	6221.4	0.2183	mg/L	0.00653	1.092	mg/L	0.0327	2.99%
Co 228.616†	9259.8	0.2437	mg/L	0.00747	1.218	mg/L	0.0373	3.06%
Cr 267.716†	1950.2	0.2858	mg/L	0.00218	1.429	mg/L	0.0109	0.76%
Cu 324.752†	70188.6	0.3461	mg/L	0.00916	1.730	mg/L	0.0458	2.65%
Fe 273.955†	179223.9	138.1	mg/L	0.86	690.3	mg/L	4.30	0.62%
K 766.490†	11238.3	6.472	mg/L	0.0281	32.36	mg/L	0.140	0.43%
Mg 279.077†	52148.0	38.08	mg/L	0.078	190.4	mg/L	0.39	0.20%
Mn 257.610†	86289.4	2.240	mg/L	0.0067	11.20	mg/L	0.034	0.30%
Mo 202.031†	91.5	0.00428	mg/L	0.000308	0.02142	mg/L	0.001539	7.18%
Na 589.592†	42467.3	4.908	mg/L	0.0045	24.54	mg/L	0.023	0.09%
Na 330.237†	87.0	4.791	mg/L	0.3906	23.95	mg/L	1.953	8.15%
Ni 231.604†	1606.1	0.3394	mg/L	0.00171	1.697	mg/L	0.0086	0.50%
Pb 220.353†	7129.2	0.8853	mg/L	0.02457	4.427	mg/L	0.1228	2.77%
Sb 206.836†	765.6	0.2560	mg/L	0.00731	1.280	mg/L	0.0365	2.86%
Se 196.026†	1037.2	0.8200	mg/L	0.02283	4.100	mg/L	0.1141	2.78%
Si 288.158†	6208.6	2.943	mg/L	0.0137	14.71	mg/L	0.068	0.47%
Sn 189.927†	-57.4	-0.00959	mg/L	0.001006	-0.04796	mg/L	0.005031	10.49%
Sr 421.552†	209287.1	0.4015	mg/L	0.00061	2.007	mg/L	0.0030	0.15%
Ti 334.903†	89688.4	5.583	mg/L	0.0088	27.91	mg/L	0.044	0.16%
Tl 190.801†	1560.4	0.7931	mg/L	0.02630	3.965	mg/L	0.1315	3.32%
V 292.402†	49384.1	0.4535	mg/L	0.01221	2.267	mg/L	0.0611	2.69%
Zn 206.200†	2051.4	0.5440	mg/L	0.00047	2.720	mg/L	0.0023	0.09%

Sequence No.: 15

Autosampler Location: 323

Sample ID: **BFE0167-BS1**

Date Collected: 5/10/2017 11:58:24 AM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BFE0167-BS1

Analyte Back Pressure Flow
 All 159.0 kPa 0.65 L/min

Mean Data: BFE0167-BS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2290453.1	101.6	%	0.33			0.32%
ScR 361.383	249450.9	103.8	%	0.14			0.14%
Ag 328.068†	140155.3	0.9556	mg/L	0.00851	0.9556 mg/L	0.00851	0.89%
Al 308.215†	5226.0	3.551	mg/L	0.0063	3.551 mg/L	0.0063	0.18%
As 188.979†	6290.1	3.697	mg/L	0.0099	3.697 mg/L	0.0099	0.27%
B 249.677†	12.4	-0.00079	mg/L	0.000844	-0.00079 mg/L	0.000844	106.23%
Ba 233.527†	18368.8	3.647	mg/L	0.0171	3.647 mg/L	0.0171	0.47%
Be 313.042†	398091.2	0.9390	mg/L	0.00071	0.9390 mg/L	0.00071	0.08%
Ca 317.933†	224143.7	18.22	mg/L	0.053	18.22 mg/L	0.053	0.29%
Cd 228.802†	26166.3	0.9119	mg/L	0.00636	0.9119 mg/L	0.00636	0.70%
Co 228.616†	33429.4	0.9165	mg/L	0.00413	0.9165 mg/L	0.00413	0.45%
Cr 267.716†	6374.0	0.9278	mg/L	0.00220	0.9278 mg/L	0.00220	0.24%
Cu 324.752†	185644.0	0.9017	mg/L	0.00464	0.9017 mg/L	0.00464	0.51%
Fe 273.955†	4749.9	3.653	mg/L	0.0197	3.653 mg/L	0.0197	0.54%
K 766.490†	31398.0	18.08	mg/L	0.025	18.08 mg/L	0.025	0.14%
Mg 279.077†	25834.7	18.90	mg/L	0.014	18.90 mg/L	0.014	0.07%
Mn 257.610†	33121.3	0.8605	mg/L	0.00263	0.8605 mg/L	0.00263	0.31%
Mo 202.031†	47.0	0.00216	mg/L	0.000345	0.00216 mg/L	0.000345	15.99%
Na 589.592†	160063.1	18.50	mg/L	0.030	18.50 mg/L	0.030	0.16%
Na 330.237†	435.4	18.75	mg/L	0.270	18.75 mg/L	0.270	1.44%
Ni 231.604†	4420.6	0.9330	mg/L	0.00379	0.9330 mg/L	0.00379	0.41%
Pb 220.353†	31019.1	3.761	mg/L	0.0230	3.761 mg/L	0.0230	0.61%
Sb 206.836†	37.3	0.00031	mg/L	0.002273	0.00031 mg/L	0.002273	735.06%
Se 196.026†	4634.5	3.720	mg/L	0.0090	3.720 mg/L	0.0090	0.24%
Si 288.158†	-11.9	-0.00592	mg/L	0.003696	-0.00592 mg/L	0.003696	62.45%
Sn 189.927†	-25.8	-0.00386	mg/L	0.000824	-0.00386 mg/L	0.000824	21.34%
Sr 421.552†	484953.2	0.9303	mg/L	0.00021	0.9303 mg/L	0.00021	0.02%
Ti 334.903†	47.8	0.00170	mg/L	0.000738	0.00170 mg/L	0.000738	43.55%
Tl 190.801†	7125.9	3.627	mg/L	0.0125	3.627 mg/L	0.0125	0.34%
V 292.402†	101647.7	0.9521	mg/L	0.00710	0.9521 mg/L	0.00710	0.75%
Zn 206.200†	3511.4	0.9303	mg/L	0.00299	0.9303 mg/L	0.00299	0.32%

Sequence No.: 16
 Sample ID: SEQ-CCV3
 Dilution: 1.000000X

Autosampler Location: 7
 Date Collected: 5/10/2017 12:02:24 PM
 Data Type: Original

Nebulizer Parameters: SEQ-CCV3

Analyte Back Pressure Flow
 All 159.0 kPa 0.65 L/min

Mean Data: SEQ-CCV3

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2265397.2	100.5	%	0.07			0.07%
ScR 361.383	244039.2	101.5	%	0.74			0.73%
Ag 328.068†	151937.6	1.036	mg/L	0.0045	1.036 mg/L	0.0045	0.44%
Al 308.215†	3026.5	2.028	mg/L	0.0161	2.028 mg/L	0.0161	0.79%
As 188.979†	3516.1	2.088	mg/L	0.0058	2.088 mg/L	0.0058	0.28%
B 249.677†	7280.2	1.032	mg/L	0.0076	1.032 mg/L	0.0076	0.74%
Ba 233.527†	5138.9	1.020	mg/L	0.0101	1.020 mg/L	0.0101	0.99%
Be 313.042†	447198.8	1.055	mg/L	0.0051	1.055 mg/L	0.0051	0.49%
Ca 317.933†	24491.2	1.991	mg/L	0.0091	1.991 mg/L	0.0091	0.46%
Cd 228.802†	29093.7	1.030	mg/L	0.0046	1.030 mg/L	0.0046	0.45%
Co 228.616†	37523.7	1.027	mg/L	0.0041	1.027 mg/L	0.0041	0.39%
Cr 267.716†	7121.0	1.038	mg/L	0.0086	1.038 mg/L	0.0086	0.83%
Cu 324.752†	203759.9	0.9891	mg/L	0.00276	0.9891 mg/L	0.00276	0.28%
Fe 273.955†	2638.7	2.026	mg/L	0.0145	2.026 mg/L	0.0145	0.71%
K 766.490†	34978.5	20.14	mg/L	0.044	20.14 mg/L	0.044	0.22%
Mg 279.077†	2838.1	2.086	mg/L	0.0198	2.086 mg/L	0.0198	0.95%
Mn 257.610†	36734.6	0.9540	mg/L	0.00254	0.9540 mg/L	0.00254	0.27%
Mo 202.031†	20026.7	1.047	mg/L	0.0024	1.047 mg/L	0.0024	0.23%
Na 589.592†	446037.8	51.55	mg/L	0.141	51.55 mg/L	0.141	0.27%
Na 330.237†	1183.2	51.76	mg/L	0.482	51.76 mg/L	0.482	0.93%
Ni 231.604†	4966.8	1.050	mg/L	0.0088	1.050 mg/L	0.0088	0.83%
Pb 220.353†	17782.7	2.157	mg/L	0.0054	2.157 mg/L	0.0054	0.25%
Sb 206.836†	6343.3	2.126	mg/L	0.0042	2.126 mg/L	0.0042	0.20%
Se 196.026†	2625.6	2.107	mg/L	0.0087	2.107 mg/L	0.0087	0.41%
Si 288.158†	4261.9	2.080	mg/L	0.0145	2.080 mg/L	0.0145	0.70%
Sn 189.927†	3846.6	1.024	mg/L	0.0035	1.024 mg/L	0.0035	0.34%
Sr 421.552†	540674.2	1.037	mg/L	0.0026	1.037 mg/L	0.0026	0.25%
Ti 334.903†	16480.4	1.025	mg/L	0.0044	1.025 mg/L	0.0044	0.43%
Tl 190.801†	4064.5	2.064	mg/L	0.0055	2.064 mg/L	0.0055	0.27%
V 292.402†	109505.7	1.026	mg/L	0.0059	1.026 mg/L	0.0059	0.57%
Zn 206.200†	3965.3	1.051	mg/L	0.0087	1.051 mg/L	0.0087	0.82%

Sequence No.: 17
 Sample ID: SEQ-CCB3

Autosampler Location: 1
 Date Collected: 5/10/2017 12:07:15 PM
 Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCB3

Analyte Back Pressure Flow
 All 159.0 kPa 0.65 L/min

Mean Data: SEQ-CCB3

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2285567.2	101.4	%	0.14				0.14%
ScR 361.383	246803.5	102.7	%	0.81				0.79%
Ag 328.068†	-8.9	-0.00006	mg/L	0.000310	-0.00006	mg/L	0.000310	510.92%
Al 308.215†	15.3	0.01040	mg/L	0.015695	0.01040	mg/L	0.015695	150.93%
As 188.979†	-1.4	-0.00080	mg/L	0.000484	-0.00080	mg/L	0.000484	60.80%
B 249.677†	4.8	0.00068	mg/L	0.000194	0.00068	mg/L	0.000194	28.50%
Ba 233.527†	3.3	0.00065	mg/L	0.000662	0.00065	mg/L	0.000662	102.60%
Be 313.042†	34.6	0.00008	mg/L	0.000053	0.00008	mg/L	0.000053	64.88%
Ca 317.933†	7.4	0.00060	mg/L	0.000500	0.00060	mg/L	0.000500	83.41%
Cd 228.802†	8.6	0.00031	mg/L	0.000185	0.00031	mg/L	0.000185	59.21%
Co 228.616†	-5.3	-0.00014	mg/L	0.000184	-0.00014	mg/L	0.000184	127.17%
Cr 267.716†	4.9	0.00071	mg/L	0.001373	0.00071	mg/L	0.001373	192.86%
Cu 324.752†	113.8	0.00055	mg/L	0.000134	0.00055	mg/L	0.000134	24.34%
Fe 273.955†	1.8	0.00140	mg/L	0.000463	0.00140	mg/L	0.000463	33.20%
K 766.490†	33.2	0.01910	mg/L	0.010664	0.01910	mg/L	0.010664	55.82%
Mg 279.077†	-4.1	-0.00301	mg/L	0.004622	-0.00301	mg/L	0.004622	153.47%
Mn 257.610†	7.2	0.00019	mg/L	0.000054	0.00019	mg/L	0.000054	28.86%
Mo 202.031†	3.9	0.00021	mg/L	0.000343	0.00021	mg/L	0.000343	167.09%
Na 589.592†	-35.7	-0.00413	mg/L	0.005652	-0.00413	mg/L	0.005652	136.84%
Na 330.237†	2.9	0.1257	mg/L	0.11831	0.1257	mg/L	0.11831	94.11%
Ni 231.604†	-6.6	-0.00140	mg/L	0.001405	-0.00140	mg/L	0.001405	100.16%
Pb 220.353†	6.4	0.00078	mg/L	0.001082	0.00078	mg/L	0.001082	138.39%
Sb 206.836†	4.1	0.00137	mg/L	0.001197	0.00137	mg/L	0.001197	87.11%
Se 196.026†	-1.3	-0.00108	mg/L	0.003536	-0.00108	mg/L	0.003536	326.70%
Si 288.158†	-3.2	-0.00159	mg/L	0.001925	-0.00159	mg/L	0.001925	120.83%
Sn 189.927†	-0.6	-0.00016	mg/L	0.001139	-0.00016	mg/L	0.001139	713.09%
Sr 421.552†	58.6	0.00011	mg/L	0.000046	0.00011	mg/L	0.000046	40.66%
Ti 334.903†	5.0	0.00031	mg/L	0.001701	0.00031	mg/L	0.001701	542.20%
Tl 190.801†	5.6	0.00287	mg/L	0.001563	0.00287	mg/L	0.001563	54.48%
V 292.402†	14.3	0.00014	mg/L	0.000237	0.00014	mg/L	0.000237	172.98%
Zn 206.200†	3.0	0.00078	mg/L	0.000539	0.00078	mg/L	0.000539	68.84%

Sequence No.: 18

Sample ID: 17D0421-02

Autosampler Location: 324

Date Collected: 5/10/2017 12:11:15 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 17D0421-02

Analyte	Back Pressure	Flow
All	159.0 kPa	0.65 L/min

Mean Data: 17D0421-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2180538.0	96.70	%	0.595				0.61%
ScR 361.383	242312.9	100.8	%	1.32				1.31%
Ag 328.068†	-31.7	-0.00021	mg/L	0.000163	-0.00021	mg/L	0.000163	78.36%
Al 308.215†	10955.0	7.472	mg/L	0.0806	7.472	mg/L	0.0806	1.08%
As 188.979†	89.4	0.05805	mg/L	0.001191	0.05805	mg/L	0.001191	2.05%
B 249.677†	601.1	0.08523	mg/L	0.002114	0.08523	mg/L	0.002114	2.48%
Ba 233.527†	124.4	0.02279	mg/L	0.000910	0.02279	mg/L	0.000910	3.99%
Be 313.042†	210.2	0.00048	mg/L	0.000043	0.00048	mg/L	0.000043	9.00%
Ca 317.933†	726632.0	59.07	mg/L	0.194	59.07	mg/L	0.194	0.33%
Cd 228.802†	124.5	0.00415	mg/L	0.000183	0.00415	mg/L	0.000183	4.40%
Co 228.616†	514.6	0.01336	mg/L	0.000308	0.01336	mg/L	0.000308	2.30%
Cr 267.716†	226.6	0.03008	mg/L	0.000368	0.03008	mg/L	0.000368	1.22%
Cu 324.752†	9401.3	0.04553	mg/L	0.000168	0.04553	mg/L	0.000168	0.37%
Fe 273.955†	17241.2	13.28	mg/L	0.114	13.28	mg/L	0.114	0.85%
K 766.490†	110426.5	63.60	mg/L	0.202	63.60	mg/L	0.202	0.32%
Mg 279.077†	53178.2	38.90	mg/L	0.313	38.90	mg/L	0.313	0.81%
Mn 257.610†	6848.6	0.1776	mg/L	0.00234	0.1776	mg/L	0.00234	1.32%
Mo 202.031†	204.1	0.00985	mg/L	0.000135	0.00985	mg/L	0.000135	1.37%
Na 589.592†	1940548.1	224.3	mg/L	0.52	224.3	mg/L	0.52	0.23%
Na 330.237†	5156.1	226.3	mg/L	1.90	226.3	mg/L	1.90	0.84%
Ni 231.604†	422.5	0.08931	mg/L	0.001847	0.08931	mg/L	0.001847	2.07%
Pb 220.353†	66.9	0.01022	mg/L	0.000597	0.01022	mg/L	0.000597	5.84%
Sb 206.836†	11.5	0.00339	mg/L	0.002072	0.00339	mg/L	0.002072	61.06%
Se 196.026†	24.6	0.01852	mg/L	0.006483	0.01852	mg/L	0.006483	35.00%
Si 288.158†	2318.9	1.134	mg/L	0.0133	1.134	mg/L	0.0133	1.18%
Sn 189.927†	-49.1	-0.00379	mg/L	0.000738	-0.00379	mg/L	0.000738	19.50%
Sr 421.552†	259284.2	0.4974	mg/L	0.00135	0.4974	mg/L	0.00135	0.27%
Ti 334.903†	6512.0	0.4020	mg/L	0.00465	0.4020	mg/L	0.00465	1.16%
Tl 190.801†	-1.0	-0.00066	mg/L	0.000514	-0.00066	mg/L	0.000514	77.86%
V 292.402†	2754.3	0.02512	mg/L	0.000063	0.02512	mg/L	0.000063	0.25%
Zn 206.200†	2656.3	0.7037	mg/L	0.00758	0.7037	mg/L	0.00758	1.08%

Sequence No.: 19

Sample ID: 17D0421-03

Autosampler Location: 325

Date Collected: 5/10/2017 12:15:31 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 17D0421-03

Analyte Back Pressure Flow
 All 160.0 kPa 0.65 L/min

Mean Data: 17D0421-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2153036.3	95.48	%	0.985			1.03%
ScR 361.383	237834.1	98.94	%	3.645			3.68%
Ag 328.068†	533.7	0.00364	mg/L	0.000082	0.00364 mg/L	0.000082	2.25%
Al 308.215†	2525.6	1.723	mg/L	0.0303	1.723 mg/L	0.0303	1.76%
As 188.979†	233.5	0.1360	mg/L	0.00149	0.1360 mg/L	0.00149	1.10%
B 249.677†	600.0	0.08517	mg/L	0.000415	0.08517 mg/L	0.000415	0.49%
Ba 233.527†	90.4	0.01749	mg/L	0.000814	0.01749 mg/L	0.000814	4.66%
Be 313.042†	122.4	0.00029	mg/L	0.000067	0.00029 mg/L	0.000067	23.47%
Ca 317.933†	463518.4	37.68	mg/L	1.774	37.68 mg/L	1.774	4.71%
Cd 228.802†	360.4	0.01191	mg/L	0.000317	0.01191 mg/L	0.000317	2.66%
Co 228.616†	181.6	0.00485	mg/L	0.000095	0.00485 mg/L	0.000095	1.95%
Cr 267.716†	117.0	0.01434	mg/L	0.000334	0.01434 mg/L	0.000334	2.33%
Cu 324.752†	9248.2	0.04444	mg/L	0.000565	0.04444 mg/L	0.000565	1.27%
Fe 273.955†	4145.4	3.193	mg/L	0.0155	3.193 mg/L	0.0155	0.49%
K 766.490†	102720.8	59.16	mg/L	0.186	59.16 mg/L	0.186	0.31%
Mg 279.077†	45722.6	33.45	mg/L	0.104	33.45 mg/L	0.104	0.31%
Mn 257.610†	2352.4	0.06094	mg/L	0.000963	0.06094 mg/L	0.000963	1.58%
Mo 202.031†	216.7	0.01081	mg/L	0.000327	0.01081 mg/L	0.000327	3.03%
Na 589.592†	2004039.2	231.6	mg/L	9.80	231.6 mg/L	9.80	4.23%
Na 330.237†	5161.0	226.5	mg/L	1.09	226.5 mg/L	1.09	0.48%
Ni 231.604†	78.3	0.01655	mg/L	0.001272	0.01655 mg/L	0.001272	7.69%
Pb 220.353†	21.1	0.00301	mg/L	0.001347	0.00301 mg/L	0.001347	44.71%
Sb 206.836†	5.5	0.00151	mg/L	0.001216	0.00151 mg/L	0.001216	80.52%
Se 196.026†	25.8	0.02042	mg/L	0.002459	0.02042 mg/L	0.002459	12.04%
Si 288.158†	1350.1	0.6636	mg/L	0.01550	0.6636 mg/L	0.01550	2.34%
Sn 189.927†	-35.6	-0.00355	mg/L	0.000526	-0.00355 mg/L	0.000526	14.82%
Sr 421.552†	206530.9	0.3962	mg/L	0.01718	0.3962 mg/L	0.01718	4.34%
Ti 334.903†	1125.8	0.06788	mg/L	0.001112	0.06788 mg/L	0.001112	1.64%
Tl 190.801†	-3.3	-0.00172	mg/L	0.001344	-0.00172 mg/L	0.001344	78.28%
V 292.402†	878.1	0.00812	mg/L	0.000177	0.00812 mg/L	0.000177	2.18%
Zn 206.200†	1996.8	0.5290	mg/L	0.00295	0.5290 mg/L	0.00295	0.56%

Sequence No.: 20

Sample ID: 17D0421-04

Autosampler Location: 326

Date Collected: 5/10/2017 12:19:47 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 17D0421-04

Analyte	Back Pressure	Flow
All	160.0 kPa	0.65 L/min

Mean Data: 17D0421-04

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2194414.5	97.32	%	0.545				0.56%
ScR 361.383	244796.5	101.8	%	0.55				0.54%
Ag 328.068†	1596.0	0.01088	mg/L	0.000060	0.01088	mg/L	0.000060	0.55%
Al 308.215†	983.6	0.6708	mg/L	0.00387	0.6708	mg/L	0.00387	0.58%
As 188.979†	120.3	0.06965	mg/L	0.001589	0.06965	mg/L	0.001589	2.28%
B 249.677†	1166.4	0.1656	mg/L	0.00141	0.1656	mg/L	0.00141	0.85%
Ba 233.527†	21.7	0.00399	mg/L	0.000406	0.00399	mg/L	0.000406	10.16%
Be 313.042†	68.3	0.00016	mg/L	0.000011	0.00016	mg/L	0.000011	7.04%
Ca 317.933†	284737.3	23.15	mg/L	0.040	23.15	mg/L	0.040	0.17%
Cd 228.802†	2227.7	0.07944	mg/L	0.000645	0.07944	mg/L	0.000645	0.81%
Co 228.616†	56.9	0.00150	mg/L	0.000139	0.00150	mg/L	0.000139	9.23%
Cr 267.716†	58.3	0.00539	mg/L	0.000758	0.00539	mg/L	0.000758	14.04%
Cu 324.752†	138080.0	0.6700	mg/L	0.00153	0.6700	mg/L	0.00153	0.23%
Fe 273.955†	2847.0	2.193	mg/L	0.0170	2.193	mg/L	0.0170	0.78%
K 766.490†	140596.6	80.97	mg/L	0.268	80.97	mg/L	0.268	0.33%
Mg 279.077†	43627.3	31.92	mg/L	0.105	31.92	mg/L	0.105	0.33%
Mn 257.610†	4074.9	0.1057	mg/L	0.00079	0.1057	mg/L	0.00079	0.74%
Mo 202.031†	114.4	0.00566	mg/L	0.000317	0.00566	mg/L	0.000317	5.60%
Na 589.592†	1896896.8	219.2	mg/L	0.63	219.2	mg/L	0.63	0.29%
Na 330.237†	5039.8	217.1	mg/L	0.55	217.1	mg/L	0.55	0.26%
Ni 231.604†	15.7	0.00331	mg/L	0.001305	0.00331	mg/L	0.001305	39.37%
Pb 220.353†	57.8	0.00635	mg/L	0.000360	0.00635	mg/L	0.000360	5.67%
Sb 206.836†	3.5	0.00100	mg/L	0.000827	0.00100	mg/L	0.000827	82.90%
Se 196.026†	20.3	0.01620	mg/L	0.002639	0.01620	mg/L	0.002639	16.29%
Si 288.158†	1375.3	0.6769	mg/L	0.00367	0.6769	mg/L	0.00367	0.54%
Sn 189.927†	-22.9	-0.00246	mg/L	0.001630	-0.00246	mg/L	0.001630	66.32%
Sr 421.552†	128231.4	0.2460	mg/L	0.00022	0.2460	mg/L	0.00022	0.09%
Ti 334.903†	482.3	0.02867	mg/L	0.001049	0.02867	mg/L	0.001049	3.66%
Tl 190.801†	1.0	0.00050	mg/L	0.001792	0.00050	mg/L	0.001792	356.90%
V 292.402†	393.1	0.00362	mg/L	0.000478	0.00362	mg/L	0.000478	13.19%
Zn 206.200†	39967.5	10.59	mg/L	0.030	10.59	mg/L	0.030	0.29%

Sequence No.: 21

Sample ID: 17D0421-05

Autosampler Location: 327

Date Collected: 5/10/2017 12:24:03 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 17D0421-05

Analyte	Back Pressure	Flow
All	160.0 kPa	0.65 L/min

Mean Data: 17D0421-05

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2194095.3	97.30	%	0.546			0.56%
ScR 361.383	247800.7	103.1	%	0.38			0.37%
Ag 328.068†	20.0	0.00014	mg/L	0.000136	0.00014	0.000136	96.19%
Al 308.215†	6587.7	4.493	mg/L	0.0392	4.493	0.0392	0.87%
As 188.979†	98.6	0.06209	mg/L	0.001247	0.06209	0.001247	2.01%
B 249.677†	495.8	0.07031	mg/L	0.001407	0.07031	0.001407	2.00%
Ba 233.527†	91.6	0.01679	mg/L	0.001075	0.01679	0.001075	6.40%
Be 313.042†	164.8	0.00038	mg/L	0.000013	0.00038	0.000013	3.46%
Ca 317.933†	328714.9	26.72	mg/L	0.040	26.72	0.040	0.15%
Cd 228.802†	143.5	0.00479	mg/L	0.000090	0.00479	0.000090	1.88%
Co 228.616†	566.5	0.01507	mg/L	0.000207	0.01507	0.000207	1.38%
Cr 267.716†	172.3	0.02223	mg/L	0.000337	0.02223	0.000337	1.52%
Cu 324.752†	9301.2	0.04470	mg/L	0.000133	0.04470	0.000133	0.30%
Fe 273.955†	12563.3	9.678	mg/L	0.0325	9.678	0.0325	0.34%
K 766.490†	170541.4	98.22	mg/L	0.548	98.22	0.548	0.56%
Mg 279.077†	54613.2	39.95	mg/L	0.176	39.95	0.176	0.44%
Mn 257.610†	5360.8	0.1391	mg/L	0.00062	0.1391	0.00062	0.45%
Mo 202.031†	178.3	0.00895	mg/L	0.000346	0.00895	0.000346	3.87%
Na 589.592†	2200931.1	254.4	mg/L	0.05	254.4	0.05	0.02%
Na 330.237†	5749.6	252.3	mg/L	1.34	252.3	1.34	0.53%
Ni 231.604†	414.9	0.08771	mg/L	0.001612	0.08771	0.001612	1.84%
Pb 220.353†	81.7	0.01115	mg/L	0.000162	0.01115	0.000162	1.45%
Sb 206.836†	13.1	0.00408	mg/L	0.001146	0.00408	0.001146	28.12%
Se 196.026†	32.0	0.02489	mg/L	0.004689	0.02489	0.004689	18.84%
Si 288.158†	1605.7	0.7858	mg/L	0.00190	0.7858	0.00190	0.24%
Sn 189.927†	-23.6	-0.00209	mg/L	0.001932	-0.00209	0.001932	92.31%
Sr 421.552†	169833.3	0.3258	mg/L	0.00145	0.3258	0.00145	0.44%
Ti 334.903†	4014.7	0.2484	mg/L	0.00161	0.2484	0.00161	0.65%
Tl 190.801†	-4.1	-0.00226	mg/L	0.003712	-0.00226	0.003712	164.16%
V 292.402†	1983.7	0.01813	mg/L	0.000442	0.01813	0.000442	2.44%
Zn 206.200†	2846.2	0.7539	mg/L	0.00573	0.7539	0.00573	0.76%

Sequence No.: 22

Sample ID: 17D0421-06

Autosampler Location: 328

Date Collected: 5/10/2017 12:28:19 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 17D0421-06

Analyte Back Pressure Flow
 All 159.0 kPa 0.65 L/min

Mean Data: 17D0421-06

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2192293.8	97.22 %	%	0.642			0.66%
ScR 361.383	248889.3	103.5 %	%	0.53			0.51%
Ag 328.068†	131.9	0.00090 mg/L	mg/L	0.000035	0.00090 mg/L	0.000035	3.86%
Al 308.215†	4431.8	3.023 mg/L	mg/L	0.0128	3.023 mg/L	0.0128	0.42%
As 188.979†	255.3	0.1482 mg/L	mg/L	0.00292	0.1482 mg/L	0.00292	1.97%
B 249.677†	443.0	0.06284 mg/L	mg/L	0.001155	0.06284 mg/L	0.001155	1.84%
Ba 233.527†	78.7	0.01477 mg/L	mg/L	0.000869	0.01477 mg/L	0.000869	5.88%
Be 313.042†	104.6	0.00024 mg/L	mg/L	0.000029	0.00024 mg/L	0.000029	12.16%
Ca 317.933†	1019488.3	82.87 mg/L	mg/L	0.932	82.87 mg/L	0.932	1.12%
Cd 228.802†	582.6	0.01981 mg/L	mg/L	0.000268	0.01981 mg/L	0.000268	1.35%
Co 228.616†	344.0	0.00909 mg/L	mg/L	0.000041	0.00909 mg/L	0.000041	0.45%
Cr 267.716†	234.2	0.03081 mg/L	mg/L	0.000838	0.03081 mg/L	0.000838	2.72%
Cu 324.752†	9399.5	0.04522 mg/L	mg/L	0.000582	0.04522 mg/L	0.000582	1.29%
Fe 273.955†	7744.4	5.966 mg/L	mg/L	0.0062	5.966 mg/L	0.0062	0.10%
K 766.490†	111543.6	64.24 mg/L	mg/L	0.242	64.24 mg/L	0.242	0.38%
Mg 279.077†	51921.7	37.99 mg/L	mg/L	0.073	37.99 mg/L	0.073	0.19%
Mn 257.610†	4363.4	0.1130 mg/L	mg/L	0.00114	0.1130 mg/L	0.00114	1.01%
Mo 202.031†	202.4	0.00944 mg/L	mg/L	0.000301	0.00944 mg/L	0.000301	3.19%
Na 589.592†	2183918.4	252.4 mg/L	mg/L	2.37	252.4 mg/L	2.37	0.94%
Na 330.237†	5746.5	252.1 mg/L	mg/L	1.18	252.1 mg/L	1.18	0.47%
Ni 231.604†	168.5	0.03561 mg/L	mg/L	0.001186	0.03561 mg/L	0.001186	3.33%
Pb 220.353†	33.2	0.00487 mg/L	mg/L	0.000432	0.00487 mg/L	0.000432	8.87%
Sb 206.836†	14.2	0.00413 mg/L	mg/L	0.002025	0.00413 mg/L	0.002025	49.01%
Se 196.026†	24.6	0.01924 mg/L	mg/L	0.003677	0.01924 mg/L	0.003677	19.11%
Si 288.158†	1275.2	0.6244 mg/L	mg/L	0.00553	0.6244 mg/L	0.00553	0.89%
Sn 189.927†	-55.4	-0.00174 mg/L	mg/L	0.001825	-0.00174 mg/L	0.001825	104.71%
Sr 421.552†	320912.9	0.6156 mg/L	mg/L	0.00579	0.6156 mg/L	0.00579	0.94%
Ti 334.903†	2975.8	0.1804 mg/L	mg/L	0.00203	0.1804 mg/L	0.00203	1.13%
Tl 190.801†	-1.0	-0.00060 mg/L	mg/L	0.004003	-0.00060 mg/L	0.004003	671.07%
V 292.402†	1437.2	0.01325 mg/L	mg/L	0.000151	0.01325 mg/L	0.000151	1.14%
Zn 206.200†	2587.7	0.6854 mg/L	mg/L	0.00832	0.6854 mg/L	0.00832	1.21%

Sequence No.: 23
 Sample ID: 17E0085-01

DEL

Autosampler Location: 329
 Date Collected: 5/10/2017 12:32:37 PM
 Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: 17E0085-01

Analyte Back Pressure Flow
 All 160.0 kPa 0.65 L/min

Mean Data: 17E0085-01

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2222922.3	98.58	%	0.712			0.72%
ScR 361.383	247951.4	103.1	%	1.79			1.73%
Ag 328.068†	-296.6	-0.00185	mg/L	0.000041	-0.00371	0.000082	2.21%
Al 308.215†	284756.4	194.2	mg/L	0.19	388.5	0.38	0.10%
As 188.979†	-157.0	0.04390	mg/L	0.001076	0.08780	0.002152	2.45%
B 249.677†	165.6	0.02202	mg/L	0.000972	0.04404	0.001943	4.41%
Ba 233.527†	3255.8	0.6082	mg/L	0.00921	1.216	0.0184	1.51%
Be 313.042†	1499.6	0.00331	mg/L	0.000094	0.00662	0.000188	2.84%
Ca 317.933†	845786.5	68.75	mg/L	0.110	137.5	0.22	0.16%
Cd 228.802†	45.7	0.00258	mg/L	0.000266	0.00516	0.000533	10.33%
Co 228.616†	4049.3	0.1006	mg/L	0.00024	0.2013	0.00047	0.23%
Cr 267.716†	1783.0	0.2617	mg/L	0.00237	0.5234	0.00475	0.91%
Cu 324.752†	62251.5	0.3132	mg/L	0.00089	0.6265	0.00179	0.29%
Fe 273.955†	345475.9	266.1	mg/L	1.27	532.3	2.53	0.48%
K 766.490†	14114.3	8.129	mg/L	0.0116	16.26	0.023	0.14%
Mg 279.077†	121134.3	88.48	mg/L	0.120	177.0	0.24	0.14%
Mn 257.610†	164373.3	4.267	mg/L	0.0174	8.533	0.0349	0.41%
Mo 202.031†	78.2	0.00312	mg/L	0.000224	0.00625	0.000448	7.17%
Na 589.592†	38030.7	4.395	mg/L	0.0261	8.790	0.0522	0.59%
Na 330.237†	72.1	4.154	mg/L	0.3769	8.309	0.7538	9.07%
Ni 231.604†	1402.2	0.2964	mg/L	0.00588	0.5929	0.01176	1.98%
Pb 220.353†	-48.1	0.04894	mg/L	0.000191	0.09788	0.000382	0.39%
Sb 206.836†	66.5	0.02215	mg/L	0.001346	0.04431	0.002691	6.07%
Se 196.026†	47.1	0.00520	mg/L	0.005661	0.01040	0.011322	108.84%
Si 288.158†	4814.2	2.254	mg/L	0.0387	4.508	0.0773	1.71%
Sn 189.927†	-78.5	-0.01007	mg/L	0.001900	-0.02014	0.003799	18.87%
Sr 421.552†	271568.2	0.5210	mg/L	0.00049	1.042	0.0010	0.09%
Ti 334.903†	90905.3	5.657	mg/L	0.0054	11.31	0.011	0.09%
Tl 190.801†	-51.2	-0.02870	mg/L	0.000128	-0.05741	0.000256	0.45%
V 292.402†	59136.7	0.5398	mg/L	0.00278	1.080	0.0056	0.51%
Zn 206.200†	2038.3	0.5403	mg/L	0.00882	1.081	0.0176	1.63%

Sequence No.: 24

Autosampler Location: 330

Sample ID: 17E0084-03

Date Collected: 5/10/2017 12:36:23 PM

Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: 17E0084-03

Analyte	Back Pressure	Flow
All	160.0 kPa	0.65 L/min

Mean Data: 17E0084-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2244170.6	99.52	%	0.550				0.55%
ScR 361.383	247047.8	102.8	%	0.74				0.72%
Ag 328.068†	-99.8	-0.00057	mg/L	0.000200	-0.00114	mg/L	0.000400	35.07%
Al 308.215†	154640.8	105.5	mg/L	0.01	211.0	mg/L	0.02	0.01%
As 188.979†	-161.2	0.05327	mg/L	0.001154	0.1065	mg/L	0.00231	2.17%
B 249.677†	282.1	0.03853	mg/L	0.001018	0.07707	mg/L	0.002036	2.64%
Ba 233.527†	4243.1	0.8198	mg/L	0.00399	1.640	mg/L	0.0080	0.49%
Be 313.042†	798.2	0.00170	mg/L	0.000016	0.00339	mg/L	0.000031	0.93%
Ca 317.933†	829180.7	67.40	mg/L	0.250	134.8	mg/L	0.50	0.37%
Cd 228.802†	173.8	0.00718	mg/L	0.000149	0.01436	mg/L	0.000297	2.07%
Co 228.616†	2937.4	0.06927	mg/L	0.000303	0.1385	mg/L	0.00061	0.44%
Cr 267.716†	2352.8	0.3444	mg/L	0.00253	0.6887	mg/L	0.00506	0.73%
Cu 324.752†	109586.5	0.5382	mg/L	0.00251	1.076	mg/L	0.0050	0.47%
Fe 273.955†	204801.7	157.8	mg/L	1.72	315.5	mg/L	3.44	1.09%
K 766.490†	12193.4	7.022	mg/L	0.0200	14.04	mg/L	0.040	0.28%
Mg 279.077†	59017.7	43.09	mg/L	0.107	86.18	mg/L	0.214	0.25%
Mn 257.610†	86685.4	2.250	mg/L	0.0163	4.500	mg/L	0.0326	0.73%
Mo 202.031†	319.4	0.01575	mg/L	0.000221	0.03149	mg/L	0.000441	1.40%
Na 589.592†	42727.8	4.938	mg/L	0.0108	9.876	mg/L	0.0215	0.22%
Na 330.237†	102.3	4.305	mg/L	0.0878	8.610	mg/L	0.1755	2.04%
Ni 231.604†	1241.9	0.2625	mg/L	0.00038	0.5251	mg/L	0.00076	0.14%
Pb 220.353†	3229.2	0.4210	mg/L	0.00354	0.8421	mg/L	0.00709	0.84%
Sb 206.836†	63.6	0.01909	mg/L	0.000921	0.03819	mg/L	0.001842	4.82%
Se 196.026†	21.8	-0.00025	mg/L	0.000623	-0.00050	mg/L	0.001245	247.96%
Si 288.158†	8348.6	3.986	mg/L	0.0412	7.971	mg/L	0.0825	1.03%
Sn 189.927†	-0.2	0.01053	mg/L	0.001224	0.02106	mg/L	0.002448	11.63%
Sr 421.552†	209392.7	0.4017	mg/L	0.00097	0.8034	mg/L	0.00193	0.24%
Ti 334.903†	98550.1	6.133	mg/L	0.0129	12.27	mg/L	0.026	0.21%
Tl 190.801†	-25.9	-0.01496	mg/L	0.005887	-0.02992	mg/L	0.011774	39.36%
V 292.402†	38761.3	0.3537	mg/L	0.00174	0.7074	mg/L	0.00349	0.49%
Zn 206.200†	14075.7	3.729	mg/L	0.0189	7.457	mg/L	0.0378	0.51%

Sequence No.: 25

Sample ID: BFE0201-DUP1

Autosampler Location: 331

Date Collected: 5/10/2017 12:40:09 PM

Data Type: Original

Dilution: 20.000000X

Nebulizer Parameters: BFE0201-DUP1

Analyte	Back Pressure	Flow
All	159.0 kPa	0.65 L/min

Mean Data: BFE0201-DUP1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2257239.6	100.1	%	0.78			0.78%
ScR 361.383	247006.5	102.8	%	0.55			0.54%
Ag 328.068†	127.6	0.00088	mg/L	0.000192	0.01758 mg/L	0.003847	21.89%
Al 308.215†	6167.4	4.206	mg/L	0.0405	84.13 mg/L	0.810	0.96%
As 188.979†	847.2	0.5029	mg/L	0.00483	10.06 mg/L	0.097	0.96%
B 249.677†	14.1	0.00195	mg/L	0.000199	0.03893 mg/L	0.003986	10.24%
Ba 233.527†	1292.3	0.2360	mg/L	0.00200	4.721 mg/L	0.0400	0.85%
Be 313.042†	112.6	0.00025	mg/L	0.000031	0.00509 mg/L	0.000614	12.05%
Ca 317.933†	83201.0	6.763	mg/L	0.0376	135.3 mg/L	0.75	0.56%
Cd 228.802†	369.5	0.00948	mg/L	0.000315	0.1897 mg/L	0.00629	3.32%
Co 228.616†	268.4	0.00695	mg/L	0.000048	0.1391 mg/L	0.00095	0.69%
Cr 267.716†	161.0	0.02781	mg/L	0.001131	0.5562 mg/L	0.02262	4.07%
Cu 324.752†	25880.6	0.1325	mg/L	0.00124	2.651 mg/L	0.0247	0.93%
Fe 273.955†	185969.0	143.3	mg/L	0.55	2865 mg/L	10.96	0.38%
K 766.490†	511.4	0.2945	mg/L	0.01788	5.891 mg/L	0.3576	6.07%
Mg 279.077†	2788.0	1.965	mg/L	0.0249	39.30 mg/L	0.499	1.27%
Mn 257.610†	232052.6	6.024	mg/L	0.0192	120.5 mg/L	0.38	0.32%
Mo 202.031†	166.6	0.00861	mg/L	0.000127	0.1722 mg/L	0.00254	1.47%
Na 589.592†	1362.5	0.1575	mg/L	0.00690	3.149 mg/L	0.1379	4.38%
Na 330.237†	29.6	-0.7520	mg/L	0.18376	-15.04 mg/L	3.675	24.43%
Ni 231.604†	76.8	0.01626	mg/L	0.000352	0.3251 mg/L	0.00704	2.16%
Pb 220.353†	1070.0	0.1308	mg/L	0.00066	2.615 mg/L	0.0132	0.51%
Sb 206.836†	37.3	0.01231	mg/L	0.001834	0.2462 mg/L	0.03668	14.89%
Se 196.026†	5.9	0.00401	mg/L	0.001542	0.08011 mg/L	0.030847	38.51%
Si 288.158†	300.0	0.1435	mg/L	0.00161	2.869 mg/L	0.0321	1.12%
Sn 189.927†	-7.6	-0.00096	mg/L	0.001093	-0.01921 mg/L	0.021861	113.77%
Sr 421.552†	37691.1	0.07230	mg/L	0.000141	1.446 mg/L	0.0028	0.20%
Ti 334.903†	3382.1	0.2102	mg/L	0.00225	4.204 mg/L	0.0450	1.07%
Tl 190.801†	-29.4	-0.01517	mg/L	0.002217	-0.3034 mg/L	0.04434	14.62%
V 292.402†	3250.2	0.02591	mg/L	0.000284	0.5182 mg/L	0.00567	1.09%
Zn 206.200†	19767.5	5.235	mg/L	0.0528	104.7 mg/L	1.06	1.01%

Sequence No.: 26

Autosampler Location: 332

Sample ID: 17E0074-01

Date Collected: 5/10/2017 12:44:09 PM

Data Type: Original

Dilution: 20.000000X

Nebulizer Parameters: 17E0074-01

Analyte	Back Pressure	Flow
All	160.0 kPa	0.65 L/min

Mean Data: 17E0074-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	2277414.0	101.0	%	0.44				0.43%
ScR 361.383	249104.4	103.6	%	0.47				0.45%
Ag 328.068†	150.2	0.00103	mg/L	0.000200	0.02066	mg/L	0.004004	19.38%
Al 308.215†	6201.2	4.229	mg/L	0.0156	84.59	mg/L	0.311	0.37%
As 188.979†	874.7	0.5195	mg/L	0.00227	10.39	mg/L	0.045	0.44%
B 249.677†	10.2	0.00140	mg/L	0.000354	0.02798	mg/L	0.007081	25.31%
Ba 233.527†	1278.7	0.2329	mg/L	0.00079	4.658	mg/L	0.0158	0.34%
Be 313.042†	105.0	0.00024	mg/L	0.000048	0.00473	mg/L	0.000955	20.19%
Ca 317.933†	92754.1	7.540	mg/L	0.0339	150.8	mg/L	0.68	0.45%
Cd 228.802†	446.1	0.01211	mg/L	0.000080	0.2422	mg/L	0.00159	0.66%
Co 228.616†	285.1	0.00738	mg/L	0.000139	0.1477	mg/L	0.00277	1.88%
Cr 267.716†	146.4	0.02587	mg/L	0.000432	0.5174	mg/L	0.00865	1.67%
Cu 324.752†	20140.0	0.1048	mg/L	0.00053	2.096	mg/L	0.0107	0.51%
Fe 273.955†	190026.4	146.4	mg/L	0.55	2928	mg/L	10.96	0.37%
K 766.490†	506.5	0.2917	mg/L	0.01710	5.834	mg/L	0.3420	5.86%
Mg 279.077†	2864.3	2.021	mg/L	0.0020	40.43	mg/L	0.041	0.10%
Mn 257.610†	278344.0	7.226	mg/L	0.0303	144.5	mg/L	0.61	0.42%
Mo 202.031†	181.4	0.00938	mg/L	0.000119	0.1875	mg/L	0.00238	1.27%
Na 589.592†	1210.5	0.1399	mg/L	0.00649	2.798	mg/L	0.1299	4.64%
Na 330.237†	30.8	-0.06689	mg/L	0.331982	-1.338	mg/L	6.6396	496.32%
Ni 231.604†	80.7	0.01707	mg/L	0.000737	0.3414	mg/L	0.01474	4.32%
Pb 220.353†	923.3	0.1130	mg/L	0.00072	2.260	mg/L	0.0144	0.64%
Sb 206.836†	44.6	0.01482	mg/L	0.001414	0.2964	mg/L	0.02828	9.54%
Se 196.026†	8.8	0.00638	mg/L	0.001579	0.1275	mg/L	0.03157	24.76%
Si 288.158†	242.1	0.1146	mg/L	0.00246	2.292	mg/L	0.0491	2.14%
Sn 189.927†	-4.7	-0.00007	mg/L	0.001099	-0.00140	mg/L	0.021978	>999.9%
Sr 421.552†	41217.0	0.07907	mg/L	0.000533	1.581	mg/L	0.0107	0.67%
Ti 334.903†	3634.5	0.2259	mg/L	0.00125	4.517	mg/L	0.0251	0.56%
Tl 190.801†	-27.0	-0.01391	mg/L	0.000850	-0.2782	mg/L	0.01701	6.11%
V 292.402†	3250.1	0.02595	mg/L	0.000159	0.5190	mg/L	0.00317	0.61%
Zn 206.200†	13847.2	3.667	mg/L	0.0141	73.35	mg/L	0.281	0.38%

Sequence No.: 27

Autosampler Location: 333

Sample ID: BFE0201-MS1

Date Collected: 5/10/2017 12:48:08 PM

Data Type: Original

Dilution: 20.000000X

Nebulizer Parameters: BFE0201-MS1

Analyte	Back Pressure	Flow
All	159.0 kPa	0.65 L/min

Mean Data: BFE0201-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2280140.0	101.1	%	0.42				0.42%
ScR 361.383	248301.8	103.3	%	0.65				0.63%
Ag 328.068†	8125.8	0.05541	mg/L	0.000596	1.108	mg/L	0.0119	1.07%
Al 308.215†	6160.6	4.201	mg/L	0.0380	84.02	mg/L	0.760	0.91%
As 188.979†	1218.0	0.7209	mg/L	0.00948	14.42	mg/L	0.190	1.32%
B 249.677†	14.3	0.00184	mg/L	0.001424	0.03677	mg/L	0.028485	77.46%
Ba 233.527†	2282.9	0.4321	mg/L	0.00311	8.642	mg/L	0.0622	0.72%
Be 313.042†	23204.4	0.05473	mg/L	0.000529	1.095	mg/L	0.0106	0.97%
Ca 317.933†	99547.9	8.092	mg/L	0.0268	161.8	mg/L	0.54	0.33%
Cd 228.802†	1940.3	0.06425	mg/L	0.000490	1.285	mg/L	0.0098	0.76%
Co 228.616†	2260.5	0.06157	mg/L	0.000131	1.231	mg/L	0.0026	0.21%
Cr 267.716†	479.6	0.07437	mg/L	0.000586	1.487	mg/L	0.0117	0.79%
Cu 324.752†	31041.0	0.1578	mg/L	0.00159	3.156	mg/L	0.0318	1.01%
Fe 273.955†	191570.6	147.6	mg/L	1.35	2952	mg/L	27.08	0.92%
K 766.490†	2239.6	1.290	mg/L	0.0137	25.80	mg/L	0.273	1.06%
Mg 279.077†	4099.8	2.922	mg/L	0.0187	58.45	mg/L	0.374	0.64%
Mn 257.610†	235091.8	6.103	mg/L	0.0435	122.1	mg/L	0.87	0.71%
Mo 202.031†	219.5	0.01136	mg/L	0.000363	0.2272	mg/L	0.00725	3.19%
Na 589.592†	10345.8	1.196	mg/L	0.0053	23.91	mg/L	0.106	0.44%
Na 330.237†	52.8	0.5873	mg/L	0.03987	11.75	mg/L	0.797	6.79%
Ni 231.604†	324.1	0.06844	mg/L	0.000734	1.369	mg/L	0.0147	1.07%
Pb 220.353†	2743.6	0.3336	mg/L	0.00107	6.673	mg/L	0.0214	0.32%
Sb 206.836†	41.1	0.01297	mg/L	0.000759	0.2595	mg/L	0.01517	5.85%
Se 196.026†	271.6	0.2173	mg/L	0.00662	4.347	mg/L	0.1324	3.05%
Si 288.158†	251.2	0.1194	mg/L	0.00111	2.387	mg/L	0.0223	0.93%
Sn 189.927†	-11.7	-0.00182	mg/L	0.001188	-0.03636	mg/L	0.023769	65.38%
Sr 421.552†	66549.4	0.1277	mg/L	0.00039	2.553	mg/L	0.0079	0.31%
Ti 334.903†	3388.7	0.2105	mg/L	0.00110	4.210	mg/L	0.0220	0.52%
Tl 190.801†	382.9	0.1947	mg/L	0.00256	3.894	mg/L	0.0511	1.31%
V 292.402†	8628.1	0.07612	mg/L	0.000790	1.522	mg/L	0.0158	1.04%
Zn 206.200†	16771.4	4.442	mg/L	0.0368	88.84	mg/L	0.736	0.83%

Sequence No.: 28
 Sample ID: SEQ-CCV4
 Dilution: 1.000000X

Autosampler Location: 7
 Date Collected: 5/10/2017 12:52:07 PM
 Data Type: Original

Nebulizer Parameters: SEQ-CCV4

Analyte Back Pressure Flow
 All 160.0 kPa 0.65 L/min

Mean Data: SEQ-CCV4

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2260475.5	100.2	%	0.39			0.39%
ScR 361.383	246116.7	102.4	%	0.50			0.49%
Ag 328.068†	160185.0	1.092	mg/L	0.0012	1.092 mg/L	0.0012	0.11%
Al 308.215†	3055.2	2.047	mg/L	0.0116	2.047 mg/L	0.0116	0.57%
As 188.979†	3619.4	2.149	mg/L	0.0023	2.149 mg/L	0.0023	0.11%
B 249.677†	7402.8	1.050	mg/L	0.0031	1.050 mg/L	0.0031	0.29%
Ba 233.527†	5285.2	1.049	mg/L	0.0066	1.049 mg/L	0.0066	0.63%
Be 313.042†	451117.1	1.064	mg/L	0.0017	1.064 mg/L	0.0017	0.16%
Ca 317.933†	24874.0	2.022	mg/L	0.0012	2.022 mg/L	0.0012	0.06%
Cd 228.802†	29780.8	1.054	mg/L	0.0036	1.054 mg/L	0.0036	0.34%
Co 228.616†	38455.5	1.053	mg/L	0.0026	1.053 mg/L	0.0026	0.25%
Cr 267.716†	7251.3	1.057	mg/L	0.0048	1.057 mg/L	0.0048	0.45%
Cu 324.752†	212791.9	1.033	mg/L	0.0043	1.033 mg/L	0.0043	0.42%
Fe 273.955†	2672.8	2.052	mg/L	0.0103	2.052 mg/L	0.0103	0.50%
K 766.490†	35027.9	20.17	mg/L	0.022	20.17 mg/L	0.022	0.11%
Mg 279.077†	2895.2	2.128	mg/L	0.0049	2.128 mg/L	0.0049	0.23%
Mn 257.610†	37309.6	0.9689	mg/L	0.00263	0.9689 mg/L	0.00263	0.27%
Mo 202.031†	19951.4	1.043	mg/L	0.0040	1.043 mg/L	0.0040	0.39%
Na 589.592†	448852.2	51.87	mg/L	0.106	51.87 mg/L	0.106	0.20%
Na 330.237†	1187.8	51.96	mg/L	0.404	51.96 mg/L	0.404	0.78%
Ni 231.604†	5109.8	1.081	mg/L	0.0025	1.081 mg/L	0.0025	0.23%
Pb 220.353†	17742.8	2.152	mg/L	0.0093	2.152 mg/L	0.0093	0.43%
Sb 206.836†	6495.6	2.178	mg/L	0.0052	2.178 mg/L	0.0052	0.24%
Se 196.026†	2693.8	2.161	mg/L	0.0059	2.161 mg/L	0.0059	0.27%
Si 288.158†	4315.4	2.106	mg/L	0.0106	2.106 mg/L	0.0106	0.50%
Sn 189.927†	3941.5	1.049	mg/L	0.0028	1.049 mg/L	0.0028	0.27%
Sr 421.552†	544336.6	1.044	mg/L	0.0025	1.044 mg/L	0.0025	0.24%
Ti 334.903†	16633.6	1.034	mg/L	0.0030	1.034 mg/L	0.0030	0.29%
Tl 190.801†	4164.6	2.115	mg/L	0.0080	2.115 mg/L	0.0080	0.38%
V 292.402†	114232.6	1.070	mg/L	0.0001	1.070 mg/L	0.0001	0.01%
Zn 206.200†	4078.0	1.080	mg/L	0.0046	1.080 mg/L	0.0046	0.43%

Sequence No.: 29
Sample ID: SEQ-CCB4

Autosampler Location: 1
Date Collected: 5/10/2017 12:57:12 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCB4

Analyte Back Pressure Flow
All 159.0 kPa 0.65 L/min

Mean Data: SEQ-CCB4

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2298600.9	101.9	%	0.53			0.52%
ScR 361.383	246418.2	102.5	%	0.39			0.39%
Ag 328.068†	13.4	0.00009	mg/L	0.000277	0.00009 mg/L	0.000277	303.22%
Al 308.215†	20.5	0.01396	mg/L	0.020140	0.01396 mg/L	0.020140	144.31%
As 188.979†	-2.6	-0.00156	mg/L	0.000676	-0.00156 mg/L	0.000676	43.29%
B 249.677†	1.5	0.00022	mg/L	0.000593	0.00022 mg/L	0.000593	271.11%
Ba 233.527†	1.0	0.00019	mg/L	0.000349	0.00019 mg/L	0.000349	180.56%
Be 313.042†	51.2	0.00012	mg/L	0.000096	0.00012 mg/L	0.000096	79.36%
Ca 317.933†	18.6	0.00151	mg/L	0.000636	0.00151 mg/L	0.000636	42.11%
Cd 228.802†	7.2	0.00027	mg/L	0.000217	0.00027 mg/L	0.000217	81.10%
Co 228.616†	-6.1	-0.00017	mg/L	0.000050	-0.00017 mg/L	0.000050	30.21%
Cr 267.716†	-10.0	-0.00146	mg/L	0.001057	-0.00146 mg/L	0.001057	72.47%
Cu 324.752†	118.8	0.00058	mg/L	0.000041	0.00058 mg/L	0.000041	7.13%
Fe 273.955†	4.3	0.00333	mg/L	0.002976	0.00333 mg/L	0.002976	89.29%
K 766.490†	13.2	0.00762	mg/L	0.010338	0.00762 mg/L	0.010338	135.74%
Mg 279.077†	4.2	0.00307	mg/L	0.004736	0.00307 mg/L	0.004736	154.32%
Mn 257.610†	9.7	0.00025	mg/L	0.000032	0.00025 mg/L	0.000032	12.85%
Mo 202.031†	8.4	0.00044	mg/L	0.000213	0.00044 mg/L	0.000213	48.68%
Na 589.592†	58.3	0.00674	mg/L	0.006538	0.00674 mg/L	0.006538	97.07%
Na 330.237†	-3.8	-0.1689	mg/L	0.44690	-0.1689 mg/L	0.44690	264.61%
Ni 231.604†	-7.4	-0.00156	mg/L	0.000162	-0.00156 mg/L	0.000162	10.37%
Pb 220.353†	7.3	0.00088	mg/L	0.000082	0.00088 mg/L	0.000082	9.29%
Sb 206.836†	3.8	0.00129	mg/L	0.001619	0.00129 mg/L	0.001619	125.83%
Se 196.026†	0.9	0.00073	mg/L	0.004698	0.00073 mg/L	0.004698	640.84%
Si 288.158†	-7.9	-0.00388	mg/L	0.002771	-0.00388 mg/L	0.002771	71.37%
Sn 189.927†	-0.8	-0.00022	mg/L	0.000427	-0.00022 mg/L	0.000427	192.46%
Sr 421.552†	41.5	0.00008	mg/L	0.000005	0.00008 mg/L	0.000005	6.39%
Ti 334.903†	-11.3	-0.00070	mg/L	0.000549	-0.00070 mg/L	0.000549	77.96%
Tl 190.801†	1.3	0.00068	mg/L	0.001333	0.00068 mg/L	0.001333	195.10%
V 292.402†	17.9	0.00016	mg/L	0.000089	0.00016 mg/L	0.000089	55.62%
Zn 206.200†	5.0	0.00131	mg/L	0.000572	0.00131 mg/L	0.000572	43.54%

=====
Analysis Begun

Start Time: 5/10/2017 1:01:10 PM

Plasma On Time: 5/10/2017 8:20:29 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\0510.sif

Batch ID:

Results Data Set: I2170510

Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

=====
Sequence No.: 1

Sample ID: SEQ-CAL3

Date Collected: 5/10/2017 1:01:12 PM

Data Type: Original

Nebulizer Parameters: SEQ-CAL3

Analyte	Back Pressure	Flow
All	160.0 kPa	0.65 L/min

Mean Data: SEQ-CAL3

Analyte	Mean Corrected		RSD	Calib
	Intensity	Std.Dev.		
ScA 357.253	2279781.2	8295.31	0.36%	101.1 %
ScR 361.383	251375.3	163.66	0.07%	104.6 %
Ag 328.068†	153778.3	310.33	0.20%	[1.0] mg/L
As 188.979†	17987.8	156.53	0.87%	[10] mg/L
B 249.677†	73099.7	72.61	0.10%	[10] mg/L
Be 313.042†	2202528.4	1831.62	0.08%	[5.0] mg/L
Na 589.592†	436771.6	1132.15	0.26%	[50] mg/L
Ni 231.604†	50391.2	151.77	0.30%	[10] mg/L
Pb 220.353†	87154.4	194.75	0.22%	[10] mg/L
Se 196.026†	13137.9	128.35	0.98%	[10] mg/L
Sr 421.552†	2647595.9	5575.15	0.21%	[5] mg/L
Tl 190.801†	20582.2	225.85	1.10%	[10] mg/L
Zn 206.200†	40228.3	67.81	0.17%	[10] mg/L

Sequence No.: 2

Sample ID: SEQ-CAL4

Date Collected: 5/10/2017 1:03:15 PM

Data Type: Original

Nebulizer Parameters: SEQ-CAL4

Analyte	Back Pressure	Flow
All	159.0 kPa	0.65 L/min

Mean Data: SEQ-CAL4

Analyte	Mean Corrected Intensity	Std.Dev.	RSD	Conc.	Units
ScA 357.253	2322391.9	13529.41	0.58%	103.0	%
ScR 361.383	249441.8	2273.68	0.91%	103.8	%
Mo 202.031†	199326.1	1422.87	0.71%	[10]	mg/L
Sb 206.836†	31153.6	160.20	0.51%	[10]	mg/L
Si 288.158†	20237.3	35.43	0.18%	[10]	mg/L
Sn 189.927†	39263.8	284.71	0.73%	[10]	mg/L
Ti 334.903†	167680.2	1405.74	0.84%	[10]	mg/L

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Analysis Begun

Start Time: 5/10/2017 1:05:22 PM

Plasma On Time: 5/10/2017 8:20:29 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\0510.sif

Batch ID:

Results Data Set: I2170510

Results Library: C:\Documents and Settings\All Users\PerkinElmer\ICP\Data\Results\Results.mdb

=====
 Sequence No.: 1

Autosampler Location: 7

Sample ID: SEQ-CCV5

Date Collected: 5/10/2017 1:05:24 PM

Dilution: 1.000000X

Data Type: Original

Nebulizer Parameters: SEQ-CCV5

Analyte	Back Pressure	Flow
All	160.0 kPa	0.65 L/min

Mean Data: SEQ-CCV5

Analyte	Mean Corrected Intensity	Calib. Conc. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2269583.3	100.7 %	0.65			0.65%
ScR 361.383	247410.5	102.9 %	1.12			1.09%
Ag 328.068†	153743.4	1.000 mg/L	0.0029	1.000 mg/L	0.0029	0.29%
Al 308.215†	3058.1	2.050 mg/L	0.0176	2.050 mg/L	0.0176	0.86%
As 188.979†	3571.6	2.005 mg/L	0.0164	2.005 mg/L	0.0164	0.82%
B 249.677†	7440.7	1.016 mg/L	0.0081	1.016 mg/L	0.0081	0.80%
Ba 233.527†	5273.0	1.047 mg/L	0.0105	1.047 mg/L	0.0105	1.00%
Be 313.042†	454218.9	1.031 mg/L	0.0094	1.031 mg/L	0.0094	0.91%
Ca 317.933†	25056.6	2.037 mg/L	0.0084	2.037 mg/L	0.0084	0.41%
Cd 228.802†	29395.5	1.041 mg/L	0.0045	1.041 mg/L	0.0045	0.43%
Co 228.616†	38304.9	1.049 mg/L	0.0030	1.049 mg/L	0.0030	0.28%
Cr 267.716†	7258.7	1.058 mg/L	0.0135	1.058 mg/L	0.0135	1.28%
Cu 324.752†	206192.6	1.001 mg/L	0.0033	1.001 mg/L	0.0033	0.33%
Fe 273.955†	2670.1	2.050 mg/L	0.0213	2.050 mg/L	0.0213	1.04%
K 766.490†	35172.6	20.26 mg/L	0.119	20.26 mg/L	0.119	0.59%
Mg 279.077†	2895.9	2.129 mg/L	0.0186	2.129 mg/L	0.0186	0.87%
Mn 257.610†	37335.6	0.9695 mg/L	0.00610	0.9695 mg/L	0.00610	0.63%
Mo 202.031†	20298.6	1.018 mg/L	0.0056	1.018 mg/L	0.0056	0.55%
Na 589.592†	450007.5	51.52 mg/L	0.369	51.52 mg/L	0.369	0.72%
Na 330.237†	1183.3	51.78 mg/L	0.901	51.78 mg/L	0.901	1.74%
Ni 231.604†	5113.2	1.015 mg/L	0.0101	1.015 mg/L	0.0101	1.00%
Pb 220.353†	18006.6	2.067 mg/L	0.0182	2.067 mg/L	0.0182	0.88%
Sb 206.836†	6408.2	2.053 mg/L	0.0159	2.053 mg/L	0.0159	0.77%
Se 196.026†	2663.6	2.026 mg/L	0.0167	2.026 mg/L	0.0167	0.83%
Si 288.158†	4302.3	2.107 mg/L	0.0213	2.107 mg/L	0.0213	1.01%
Sn 189.927†	3899.8	0.9945 mg/L	0.00787	0.9945 mg/L	0.00787	0.79%
Sr 421.552†	545564.1	1.030 mg/L	0.0079	1.030 mg/L	0.0079	0.77%
Ti 334.903†	16721.6	0.9959 mg/L	0.00766	0.9959 mg/L	0.00766	0.77%
Tl 190.801†	4120.5	1.992 mg/L	0.0184	1.992 mg/L	0.0184	0.92%
V 292.402†	111131.0	1.041 mg/L	0.0043	1.041 mg/L	0.0043	0.42%
Zn 206.200†	4083.7	1.016 mg/L	0.0120	1.016 mg/L	0.0120	1.18%

Sequence No.: 2
 Sample ID: SEQ-CCB5
 Dilution: 1.000000X

Autosampler Location: 1
 Date Collected: 5/10/2017 1:10:15 PM
 Data Type: Original

Nebulizer Parameters: SEQ-CCB5

Analyte Back Pressure Flow
 All 160.0 kPa 0.65 L/min

Mean Data: SEQ-CCB5

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2302629.6	102.1	%	0.96			0.94%
ScR 361.383	247757.1	103.1	%	0.84			0.82%
Ag 328.068†	17.6	0.00011	mg/L	0.000156	0.00011 mg/L	0.000156	136.34%
Al 308.215†	-1.4	-0.00097	mg/L	0.009811	-0.00097 mg/L	0.009811	>999.9%
As 188.979†	-1.4	-0.00081	mg/L	0.001133	-0.00081 mg/L	0.001133	139.88%
B 249.677†	22.7	0.00311	mg/L	0.001442	0.00311 mg/L	0.001442	46.39%
Ba 233.527†	-0.5	-0.00010	mg/L	0.000903	-0.00010 mg/L	0.000903	929.38%
Be 313.042†	68.5	0.00016	mg/L	0.000135	0.00016 mg/L	0.000135	87.01%
Ca 317.933†	24.2	0.00197	mg/L	0.000982	0.00197 mg/L	0.000982	49.91%
Cd 228.802†	7.3	0.00027	mg/L	0.000204	0.00027 mg/L	0.000204	76.31%
Co 228.616†	-1.7	-0.00005	mg/L	0.000289	-0.00005 mg/L	0.000289	605.36%
Cr 267.716†	-3.6	-0.00053	mg/L	0.001067	-0.00053 mg/L	0.001067	202.59%
Cu 324.752†	101.2	0.00049	mg/L	0.000177	0.00049 mg/L	0.000177	35.97%
Fe 273.955†	4.3	0.00328	mg/L	0.002265	0.00328 mg/L	0.002265	68.97%
K 766.490†	10.5	0.00606	mg/L	0.017277	0.00606 mg/L	0.017277	285.17%
Mg 279.077†	0.7	0.00051	mg/L	0.001760	0.00051 mg/L	0.001760	345.29%
Mn 257.610†	14.2	0.00037	mg/L	0.000075	0.00037 mg/L	0.000075	20.38%
Mo 202.031†	6.4	0.00032	mg/L	0.000222	0.00032 mg/L	0.000222	69.18%
Na 589.592†	74.7	0.00855	mg/L	0.005106	0.00855 mg/L	0.005106	59.71%
Na 330.237†	-9.9	-0.4335	mg/L	0.31793	-0.4335 mg/L	0.31793	73.34%
Ni 231.604†	2.8	0.00055	mg/L	0.000436	0.00055 mg/L	0.000436	78.88%
Pb 220.353†	3.7	0.00043	mg/L	0.000646	0.00043 mg/L	0.000646	150.98%
Sb 206.836†	8.9	0.00284	mg/L	0.000374	0.00284 mg/L	0.000374	13.17%
Se 196.026†	5.3	0.00407	mg/L	0.001676	0.00407 mg/L	0.001676	41.22%
Si 288.158†	-6.0	-0.00298	mg/L	0.001536	-0.00298 mg/L	0.001536	51.59%
Sn 189.927†	-3.5	-0.00089	mg/L	0.000461	-0.00089 mg/L	0.000461	51.97%
Sr 421.552†	81.3	0.00015	mg/L	0.000089	0.00015 mg/L	0.000089	57.98%
Ti 334.903†	-2.5	-0.00015	mg/L	0.000972	-0.00015 mg/L	0.000972	646.78%
Tl 190.801†	3.0	0.00146	mg/L	0.003027	0.00146 mg/L	0.003027	207.36%
V 292.402†	31.9	0.00029	mg/L	0.000089	0.00029 mg/L	0.000089	30.33%
Zn 206.200†	3.5	0.00088	mg/L	0.000753	0.00088 mg/L	0.000753	85.88%

Sequence No.: 3

Autosampler Location: 334

Sample ID: BFE0283-BLK1

Date Collected: 5/10/2017 1:14:15 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BFE0283-BLK1

Analyte Back Pressure Flow
 All 160.0 kPa 0.65 L/min

Mean Data: BFE0283-BLK1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2329500.5	103.3	%	0.34			0.33%
ScR 361.383	251026.1	104.4	%	0.81			0.77%
Ag 328.068†	13.4	0.00009	mg/L	0.000417	0.00009 mg/L	0.000417	477.78%
Al 308.215†	21.4	0.01463	mg/L	0.006173	0.01463 mg/L	0.006173	42.20%
As 188.979†	-0.1	-0.00005	mg/L	0.000733	-0.00005 mg/L	0.000733	>999.9%
B 249.677†	2.4	0.00033	mg/L	0.001099	0.00033 mg/L	0.001099	331.13%
Ba 233.527†	3.3	0.00065	mg/L	0.000436	0.00065 mg/L	0.000436	67.44%
Be 313.042†	84.3	0.00019	mg/L	0.000069	0.00019 mg/L	0.000069	36.20%
Ca 317.933†	204.2	0.01660	mg/L	0.000242	0.01660 mg/L	0.000242	1.46%
Cd 228.802†	8.0	0.00029	mg/L	0.000259	0.00029 mg/L	0.000259	90.29%
Co 228.616†	1.6	0.00004	mg/L	0.000062	0.00004 mg/L	0.000062	144.54%
Cr 267.716†	-0.0	-0.00000	mg/L	0.001498	-0.00000 mg/L	0.001498	>999.9%
Cu 324.752†	136.1	0.00066	mg/L	0.000073	0.00066 mg/L	0.000073	10.98%
Fe 273.955†	6.3	0.00488	mg/L	0.001208	0.00488 mg/L	0.001208	24.77%
K 766.490†	117.8	0.06787	mg/L	0.000279	0.06787 mg/L	0.000279	0.41%
Mg 279.077†	-7.6	-0.00558	mg/L	0.009232	-0.00558 mg/L	0.009232	165.37%
Mn 257.610†	17.7	0.00046	mg/L	0.000085	0.00046 mg/L	0.000085	18.48%
Mo 202.031†	1.8	0.00009	mg/L	0.000065	0.00009 mg/L	0.000065	72.85%
Na 589.592†	708.1	0.08106	mg/L	0.002989	0.08106 mg/L	0.002989	3.69%
Na 330.237†	12.7	0.5581	mg/L	0.15620	0.5581 mg/L	0.15620	27.99%
Ni 231.604†	-2.5	-0.00050	mg/L	0.001107	-0.00050 mg/L	0.001107	221.22%
Pb 220.353†	7.8	0.00089	mg/L	0.000843	0.00089 mg/L	0.000843	94.43%
Sb 206.836†	1.7	0.00053	mg/L	0.001880	0.00053 mg/L	0.001880	355.71%
Se 196.026†	5.8	0.00440	mg/L	0.004621	0.00440 mg/L	0.004621	104.95%
Si 288.158†	-5.5	-0.00271	mg/L	0.001005	-0.00271 mg/L	0.001005	37.13%
Sn 189.927†	-2.9	-0.00074	mg/L	0.000810	-0.00074 mg/L	0.000810	109.98%
Sr 421.552†	52.9	0.00010	mg/L	0.000055	0.00010 mg/L	0.000055	55.09%
Ti 334.903†	6.4	0.00038	mg/L	0.000368	0.00038 mg/L	0.000368	96.27%
Tl 190.801†	-1.1	-0.00051	mg/L	0.000871	-0.00051 mg/L	0.000871	169.25%
V 292.402†	6.3	0.00006	mg/L	0.000170	0.00006 mg/L	0.000170	293.72%
Zn 206.200†	6.5	0.00160	mg/L	0.001050	0.00160 mg/L	0.001050	65.48%

Sequence No.: 4

Autosampler Location: 335

Sample ID: 17D0421-07

Date Collected: 5/10/2017 1:18:31 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 17D0421-07

Analyte	Back Pressure	Flow
All	159.0 kPa	0.65 L/min

Mean Data: 17D0421-07

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2138236.6	94.83	%	1.002				1.06%
ScR 361.383	244089.3	101.5	%	1.21				1.19%
Ag 328.068†	112.8	0.00074	mg/L	0.000347	0.00074	mg/L	0.000347	46.78%
Al 308.215†	9210.9	6.282	mg/L	0.0283	6.282	mg/L	0.0283	0.45%
As 188.979†	197.9	0.1094	mg/L	0.00157	0.1094	mg/L	0.00157	1.43%
B 249.677†	605.2	0.08268	mg/L	0.001029	0.08268	mg/L	0.001029	1.24%
Ba 233.527†	84.1	0.01482	mg/L	0.000623	0.01482	mg/L	0.000623	4.20%
Be 313.042†	139.5	0.00031	mg/L	0.000037	0.00031	mg/L	0.000037	12.16%
Ca 317.933†	1431444.3	116.4	mg/L	0.19	116.4	mg/L	0.19	0.16%
Cd 228.802†	447.4	0.01529	mg/L	0.000257	0.01529	mg/L	0.000257	1.68%
Co 228.616†	554.1	0.01456	mg/L	0.000137	0.01456	mg/L	0.000137	0.94%
Cr 267.716†	462.0	0.06375	mg/L	0.000642	0.06375	mg/L	0.000642	1.01%
Cu 324.752†	10966.8	0.05305	mg/L	0.000591	0.05305	mg/L	0.000591	1.11%
Fe 273.955†	16937.4	13.05	mg/L	0.027	13.05	mg/L	0.027	0.21%
K 766.490†	130879.6	75.37	mg/L	0.162	75.37	mg/L	0.162	0.22%
Mg 279.077†	56810.9	41.56	mg/L	0.080	41.56	mg/L	0.080	0.19%
Mn 257.610†	8994.4	0.2331	mg/L	0.00067	0.2331	mg/L	0.00067	0.29%
Mo 202.031†	215.4	0.00920	mg/L	0.000372	0.00920	mg/L	0.000372	4.05%
Na 589.592†	2084714.7	238.7	mg/L	1.28	238.7	mg/L	1.28	0.54%
Na 330.237†	5432.0	238.4	mg/L	0.65	238.4	mg/L	0.65	0.27%
Ni 231.604†	346.1	0.06868	mg/L	0.000884	0.06868	mg/L	0.000884	1.29%
Pb 220.353†	48.2	0.00735	mg/L	0.000443	0.00735	mg/L	0.000443	6.03%
Sb 206.836†	13.0	0.00302	mg/L	0.001759	0.00302	mg/L	0.001759	58.21%
Se 196.026†	25.1	0.01800	mg/L	0.001776	0.01800	mg/L	0.001776	9.87%
Si 288.158†	1331.3	0.6507	mg/L	0.00593	0.6507	mg/L	0.00593	0.91%
Sn 189.927†	-64.0	0.00194	mg/L	0.002601	0.00194	mg/L	0.002601	134.21%
Sr 421.552†	408437.8	0.7713	mg/L	0.00318	0.7713	mg/L	0.00318	0.41%
Ti 334.903†	5755.4	0.3364	mg/L	0.00149	0.3364	mg/L	0.00149	0.44%
Tl 190.801†	0.0	-0.00017	mg/L	0.003062	-0.00017	mg/L	0.003062	>999.9%
V 292.402†	2702.2	0.02486	mg/L	0.000373	0.02486	mg/L	0.000373	1.50%
Zn 206.200†	2212.9	0.5502	mg/L	0.00430	0.5502	mg/L	0.00430	0.78%

Sequence No.: 5

Sample ID: 17D0421-09

Autosampler Location: 336

Date Collected: 5/10/2017 1:22:48 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 17D0421-09

Analyte	Back Pressure	Flow
All	160.0 kPa	0.65 L/min

Mean Data: 17D0421-09

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2207127.8	97.88	%	0.539				0.55%
ScR 361.383	237213.9	98.68	%	2.204				2.23%
Ag 328.068†	461.0	0.00300	mg/L	0.000264	0.00300	mg/L	0.000264	8.82%
Al 308.215†	117.9	0.08031	mg/L	0.005651	0.08031	mg/L	0.005651	7.04%
As 188.979†	923.3	0.5088	mg/L	0.00498	0.5088	mg/L	0.00498	0.98%
B 249.677†	194.4	0.02659	mg/L	0.002187	0.02659	mg/L	0.002187	8.23%
Ba 233.527†	27.9	0.00551	mg/L	0.001185	0.00551	mg/L	0.001185	21.51%
Be 313.042†	117.4	0.00027	mg/L	0.000055	0.00027	mg/L	0.000055	20.60%
Ca 317.933†	723295.8	58.80	mg/L	0.094	58.80	mg/L	0.094	0.16%
Cd 228.802†	89.9	-0.00068	mg/L	0.000054	-0.00068	mg/L	0.000054	7.88%
Co 228.616†	62.2	0.00169	mg/L	0.000229	0.00169	mg/L	0.000229	13.52%
Cr 267.716†	41.5	0.00422	mg/L	0.001392	0.00422	mg/L	0.001392	33.01%
Cu 324.752†	48941.9	0.2364	mg/L	0.00179	0.2364	mg/L	0.00179	0.76%
Fe 273.955†	242.4	0.1867	mg/L	0.00958	0.1867	mg/L	0.00958	5.13%
K 766.490†	360925.5	207.9	mg/L	0.70	207.9	mg/L	0.70	0.34%
Mg 279.077†	22821.6	16.70	mg/L	0.693	16.70	mg/L	0.693	4.15%
Mn 257.610†	447.3	0.01143	mg/L	0.000552	0.01143	mg/L	0.000552	4.83%
Mo 202.031†	120.8	0.00525	mg/L	0.000107	0.00525	mg/L	0.000107	2.04%
Na 589.592†	971897.5	111.3	mg/L	0.69	111.3	mg/L	0.69	0.62%
Na 330.237†	2516.7	109.7	mg/L	3.88	109.7	mg/L	3.88	3.53%
Ni 231.604†	7.5	0.00148	mg/L	0.000068	0.00148	mg/L	0.000068	4.62%
Pb 220.353†	17.3	0.00172	mg/L	0.000413	0.00172	mg/L	0.000413	24.06%
Sb 206.836†	7.3	0.00216	mg/L	0.001440	0.00216	mg/L	0.001440	66.78%
Se 196.026†	21.4	0.01630	mg/L	0.003673	0.01630	mg/L	0.003673	22.54%
Si 288.158†	373.1	0.1842	mg/L	0.00870	0.1842	mg/L	0.00870	4.72%
Sn 189.927†	-37.4	-0.00031	mg/L	0.000553	-0.00031	mg/L	0.000553	179.85%
Sr 421.552†	458036.7	0.8650	mg/L	0.00434	0.8650	mg/L	0.00434	0.50%
Ti 334.903†	119.9	0.00369	mg/L	0.000780	0.00369	mg/L	0.000780	21.12%
Tl 190.801†	1.9	0.00093	mg/L	0.001838	0.00093	mg/L	0.001838	197.97%
V 292.402†	59.2	0.00057	mg/L	0.000213	0.00057	mg/L	0.000213	37.15%
Zn 206.200†	8030.5	1.996	mg/L	0.0857	1.996	mg/L	0.0857	4.29%

Sequence No.: 6

Sample ID: 17D0421-10

Autosampler Location: 337

Date Collected: 5/10/2017 1:27:03 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 17D0421-10

Analyte	Back Pressure	Flow
All	160.0 kPa	0.65 L/min

Mean Data: 17D0421-10

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2214684.4	98.22	%	0.207				0.21%
ScR 361.383	243866.8	101.4	%	0.62				0.61%
Ag 328.068†	1151.8	0.00749	mg/L	0.000162	0.00749	mg/L	0.000162	2.16%
Al 308.215†	60.1	0.04038	mg/L	0.006415	0.04038	mg/L	0.006415	15.89%
As 188.979†	878.8	0.4866	mg/L	0.00377	0.4866	mg/L	0.00377	0.78%
B 249.677†	473.5	0.06474	mg/L	0.001344	0.06474	mg/L	0.001344	2.08%
Ba 233.527†	28.7	0.00527	mg/L	0.000417	0.00527	mg/L	0.000417	7.92%
Be 313.042†	104.2	0.00023	mg/L	0.000030	0.00023	mg/L	0.000030	13.03%
Ca 317.933†	326718.2	26.56	mg/L	0.048	26.56	mg/L	0.048	0.18%
Cd 228.802†	7198.6	0.2548	mg/L	0.00407	0.2548	mg/L	0.00407	1.60%
Co 228.616†	989.3	0.02712	mg/L	0.000164	0.02712	mg/L	0.000164	0.60%
Cr 267.716†	48.5	0.00527	mg/L	0.001379	0.00527	mg/L	0.001379	26.14%
Cu 324.752†	109986.1	0.5333	mg/L	0.00120	0.5333	mg/L	0.00120	0.22%
Fe 273.955†	3805.5	2.931	mg/L	0.0315	2.931	mg/L	0.0315	1.08%
K 766.490†	253129.9	145.8	mg/L	0.30	145.8	mg/L	0.30	0.20%
Mg 279.077†	29471.0	21.56	mg/L	0.164	21.56	mg/L	0.164	0.76%
Mn 257.610†	2627.1	0.06813	mg/L	0.000797	0.06813	mg/L	0.000797	1.17%
Mo 202.031†	499.9	0.02472	mg/L	0.000178	0.02472	mg/L	0.000178	0.72%
Na 589.592†	1781013.2	203.9	mg/L	0.31	203.9	mg/L	0.31	0.15%
Na 330.237†	4711.0	206.4	mg/L	1.59	206.4	mg/L	1.59	0.77%
Ni 231.604†	243.2	0.04826	mg/L	0.001349	0.04826	mg/L	0.001349	2.80%
Pb 220.353†	57.4	0.00592	mg/L	0.000654	0.00592	mg/L	0.000654	11.05%
Sb 206.836†	8.3	0.00257	mg/L	0.001383	0.00257	mg/L	0.001383	53.75%
Se 196.026†	109.4	0.08323	mg/L	0.006938	0.08323	mg/L	0.006938	8.34%
Si 288.158†	262.3	0.1295	mg/L	0.00158	0.1295	mg/L	0.00158	1.22%
Sn 189.927†	-13.3	0.00079	mg/L	0.000851	0.00079	mg/L	0.000851	108.31%
Sr 421.552†	379601.6	0.7169	mg/L	0.00151	0.7169	mg/L	0.00151	0.21%
Ti 334.903†	132.4	0.00631	mg/L	0.000212	0.00631	mg/L	0.000212	3.36%
Tl 190.801†	-2.3	-0.00129	mg/L	0.001073	-0.00129	mg/L	0.001073	82.91%
V 292.402†	1241.9	0.01152	mg/L	0.000206	0.01152	mg/L	0.000206	1.78%
Zn 206.200†	4910.6	1.221	mg/L	0.0112	1.221	mg/L	0.0112	0.91%

Sequence No.: 7

Autosampler Location: 338

Sample ID: BFE0167-DUP1

Date Collected: 5/10/2017 1:31:18 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BFE0167-DUP1

Analyte	Back Pressure	Flow
All	161.0 kPa	0.65 L/min

Mean Data: BFE0167-DUP1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2228012.4	98.81	%	0.703				0.71%
ScR 361.383	256333.8	106.6	%	1.44				1.35%
Ag 328.068†	6984.8	0.04542	mg/L	0.000450	0.04542	mg/L	0.000450	0.99%
Al 308.215†	2392.3	1.632	mg/L	0.0239	1.632	mg/L	0.0239	1.47%
As 188.979†	206.8	0.1152	mg/L	0.00176	0.1152	mg/L	0.00176	1.53%
B 249.677†	656.5	0.08979	mg/L	0.001024	0.08979	mg/L	0.001024	1.14%
Ba 233.527†	30.3	0.00520	mg/L	0.001297	0.00520	mg/L	0.001297	24.96%
Be 313.042†	103.4	0.00023	mg/L	0.000036	0.00023	mg/L	0.000036	15.77%
Ca 317.933†	227515.1	18.49	mg/L	0.298	18.49	mg/L	0.298	1.61%
Cd 228.802†	350.1	0.01171	mg/L	0.000099	0.01171	mg/L	0.000099	0.85%
Co 228.616†	151.8	0.00404	mg/L	0.000090	0.00404	mg/L	0.000090	2.22%
Cr 267.716†	134.5	0.01684	mg/L	0.000499	0.01684	mg/L	0.000499	2.96%
Cu 324.752†	20005.8	0.09648	mg/L	0.000632	0.09648	mg/L	0.000632	0.66%
Fe 273.955†	7458.2	5.745	mg/L	0.0334	5.745	mg/L	0.0334	0.58%
K 766.490†	193520.4	111.5	mg/L	0.57	111.5	mg/L	0.57	0.51%
Mg 279.077†	50097.8	36.65	mg/L	0.099	36.65	mg/L	0.099	0.27%
Mn 257.610†	4696.5	0.1219	mg/L	0.00072	0.1219	mg/L	0.00072	0.59%
Mo 202.031†	188.0	0.00918	mg/L	0.000118	0.00918	mg/L	0.000118	1.29%
Na 589.592†	1939444.8	222.0	mg/L	2.59	222.0	mg/L	2.59	1.17%
Na 330.237†	5131.6	224.7	mg/L	0.64	224.7	mg/L	0.64	0.29%
Ni 231.604†	67.8	0.01346	mg/L	0.000907	0.01346	mg/L	0.000907	6.74%
Pb 220.353†	71.3	0.00855	mg/L	0.001557	0.00855	mg/L	0.001557	18.21%
Sb 206.836†	8.6	0.00243	mg/L	0.001221	0.00243	mg/L	0.001221	50.26%
Se 196.026†	48.6	0.03671	mg/L	0.002485	0.03671	mg/L	0.002485	6.77%
Si 288.158†	1376.9	0.6789	mg/L	0.01479	0.6789	mg/L	0.01479	2.18%
Sn 189.927†	-14.1	-0.00069	mg/L	0.000930	-0.00069	mg/L	0.000930	133.88%
Sr 421.552†	144492.6	0.2729	mg/L	0.00110	0.2729	mg/L	0.00110	0.40%
Ti 334.903†	1162.4	0.06822	mg/L	0.001074	0.06822	mg/L	0.001074	1.57%
Tl 190.801†	-5.5	-0.00271	mg/L	0.001666	-0.00271	mg/L	0.001666	61.39%
V 292.402†	1041.9	0.00958	mg/L	0.000409	0.00958	mg/L	0.000409	4.28%
Zn 206.200†	6856.9	1.705	mg/L	0.0264	1.705	mg/L	0.0264	1.55%

Sequence No.: 8

Sample ID: 17D0421-08

Autosampler Location: 339

Date Collected: 5/10/2017 1:35:33 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 17D0421-08

Analyte Back Pressure Flow
 All 160.0 kPa 0.65 L/min

Mean Data: 17D0421-08

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2191757.2	97.20	%	0.772				0.79%
ScR 361.383	240166.1	99.91	%	1.208				1.21%
Ag 328.068†	6551.2	0.04260	mg/L	0.000460	0.04260	mg/L	0.000460	1.08%
Al 308.215†	2592.1	1.768	mg/L	0.0082	1.768	mg/L	0.0082	0.47%
As 188.979†	212.8	0.1150	mg/L	0.00115	0.1150	mg/L	0.00115	1.00%
B 249.677†	684.3	0.09359	mg/L	0.001009	0.09359	mg/L	0.001009	1.08%
Ba 233.527†	54.4	0.00996	mg/L	0.000633	0.00996	mg/L	0.000633	6.35%
Be 313.042†	154.8	0.00035	mg/L	0.000022	0.00035	mg/L	0.000022	6.32%
Ca 317.933†	842673.7	68.50	mg/L	0.225	68.50	mg/L	0.225	0.33%
Cd 228.802†	337.6	0.01124	mg/L	0.000446	0.01124	mg/L	0.000446	3.97%
Co 228.616†	148.7	0.00392	mg/L	0.000059	0.00392	mg/L	0.000059	1.49%
Cr 267.716†	152.3	0.01897	mg/L	0.000920	0.01897	mg/L	0.000920	4.85%
Cu 324.752†	19838.0	0.09565	mg/L	0.001285	0.09565	mg/L	0.001285	1.34%
Fe 273.955†	7586.9	5.845	mg/L	0.0216	5.845	mg/L	0.0216	0.37%
K 766.490†	196936.4	113.4	mg/L	0.23	113.4	mg/L	0.23	0.20%
Mg 279.077†	51248.4	37.49	mg/L	0.412	37.49	mg/L	0.412	1.10%
Mn 257.610†	4114.1	0.1066	mg/L	0.00081	0.1066	mg/L	0.00081	0.76%
Mo 202.031†	223.6	0.01027	mg/L	0.000429	0.01027	mg/L	0.000429	4.18%
Na 589.592†	1992136.1	228.1	mg/L	0.12	228.1	mg/L	0.12	0.05%
Na 330.237†	5320.3	233.0	mg/L	1.40	233.0	mg/L	1.40	0.60%
Ni 231.604†	83.6	0.01659	mg/L	0.001432	0.01659	mg/L	0.001432	8.63%
Pb 220.353†	80.5	0.00965	mg/L	0.000807	0.00965	mg/L	0.000807	8.37%
Sb 206.836†	12.3	0.00349	mg/L	0.001871	0.00349	mg/L	0.001871	53.62%
Se 196.026†	39.1	0.02946	mg/L	0.003279	0.02946	mg/L	0.003279	11.13%
Si 288.158†	1403.6	0.6918	mg/L	0.01018	0.6918	mg/L	0.01018	1.47%
Sn 189.927†	-49.8	-0.00195	mg/L	0.000902	-0.00195	mg/L	0.000902	46.15%
Sr 421.552†	430064.9	0.8122	mg/L	0.00107	0.8122	mg/L	0.00107	0.13%
Ti 334.903†	1460.4	0.08306	mg/L	0.000171	0.08306	mg/L	0.000171	0.21%
Tl 190.801†	-5.3	-0.00264	mg/L	0.002104	-0.00264	mg/L	0.002104	79.56%
V 292.402†	1080.4	0.00993	mg/L	0.000319	0.00993	mg/L	0.000319	3.21%
Zn 206.200†	6772.7	1.684	mg/L	0.0128	1.684	mg/L	0.0128	0.76%

Sequence No.: 9

Autosampler Location: 340

Sample ID: BFE0167-MS1

Date Collected: 5/10/2017 1:39:48 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BFE0167-MS1

Analyte	Back Pressure	Flow
All	160.0 kPa	0.65 L/min

Mean Data: BFE0167-MS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2194179.5	97.31	%	0.434			0.45%
ScR 361.383	240539.4	100.1	%	0.90			0.90%
Ag 328.068†	49703.1	0.3235	mg/L	0.00133	0.3235 mg/L	0.00133	0.41%
Al 308.215†	7983.1	5.431	mg/L	0.0512	5.431 mg/L	0.0512	0.94%
As 188.979†	7204.0	4.002	mg/L	0.0306	4.002 mg/L	0.0306	0.76%
B 249.677†	696.0	0.09246	mg/L	0.003709	0.09246 mg/L	0.003709	4.01%
Ba 233.527†	20415.0	4.052	mg/L	0.0620	4.052 mg/L	0.0620	1.53%
Be 313.042†	423181.0	0.9604	mg/L	0.00103	0.9604 mg/L	0.00103	0.11%
Ca 317.933†	667024.5	54.22	mg/L	0.078	54.22 mg/L	0.078	0.14%
Cd 228.802†	28973.6	1.010	mg/L	0.0060	1.010 mg/L	0.0060	0.60%
Co 228.616†	35890.0	0.9838	mg/L	0.00357	0.9838 mg/L	0.00357	0.36%
Cr 267.716†	7058.6	1.025	mg/L	0.0069	1.025 mg/L	0.0069	0.67%
Cu 324.752†	224484.3	1.090	mg/L	0.0040	1.090 mg/L	0.0040	0.37%
Fe 273.955†	14858.4	11.44	mg/L	0.021	11.44 mg/L	0.021	0.18%
K 766.490†	233350.0	134.4	mg/L	0.18	134.4 mg/L	0.18	0.13%
Mg 279.077†	76649.6	56.08	mg/L	0.146	56.08 mg/L	0.146	0.26%
Mn 257.610†	41231.3	1.071	mg/L	0.0017	1.071 mg/L	0.0017	0.15%
Mo 202.031†	215.6	0.01001	mg/L	0.000372	0.01001 mg/L	0.000372	3.71%
Na 589.592†	2176773.2	249.2	mg/L	0.63	249.2 mg/L	0.63	0.25%
Na 330.237†	5873.1	256.9	mg/L	1.82	256.9 mg/L	1.82	0.71%
Ni 231.604†	5008.0	0.9924	mg/L	0.00960	0.9924 mg/L	0.00960	0.97%
Pb 220.353†	32577.6	3.740	mg/L	0.0139	3.740 mg/L	0.0139	0.37%
Sb 206.836†	42.2	0.00001	mg/L	0.001028	0.00001 mg/L	0.001028	>999.9%
Se 196.026†	5427.0	4.128	mg/L	0.0355	4.128 mg/L	0.0355	0.86%
Si 288.158†	1697.7	0.8373	mg/L	0.00321	0.8373 mg/L	0.00321	0.38%
Sn 189.927†	-46.3	-0.00316	mg/L	0.000969	-0.00316 mg/L	0.000969	30.68%
Sr 421.552†	766389.0	1.447	mg/L	0.0020	1.447 mg/L	0.0020	0.14%
Ti 334.903†	1336.6	0.07628	mg/L	0.000426	0.07628 mg/L	0.000426	0.56%
Tl 190.801†	7337.8	3.556	mg/L	0.0339	3.556 mg/L	0.0339	0.95%
V 292.402†	112208.0	1.051	mg/L	0.0046	1.051 mg/L	0.0046	0.43%
Zn 206.200†	10485.0	2.607	mg/L	0.0126	2.607 mg/L	0.0126	0.48%

Sequence No.: 10
 Sample ID: 17E0124-03
 Dilution: 100.000000X

DEL

Autosampler Location: 341
 Date Collected: 5/10/2017 1:44:09 PM
 Data Type: Original

Nebulizer Parameters: 17E0124-03

Analyte Back Pressure Flow
 All 160.0 kPa 0.65 L/min

Mean Data: 17E0124-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2287677.8	101.5	%	0.15			0.15%
ScR 361.383	249122.5	103.6	%	0.62			0.59%
Ag 328.068†	29.9	0.00019	mg/L	0.000219	0.01947	0.021851	112.20%
Al 308.215†	62.8	0.04174	mg/L	0.003156	4.174	0.3156	7.56%
As 188.979†	1.6	0.00022	mg/L	0.000740	0.02188	0.074017	338.33%
B 249.677†	-0.4	-0.00005	mg/L	0.000528	-0.00548	0.052798	963.62%
Ba 233.527†	29.4	0.00391	mg/L	0.000243	0.3911	0.02427	6.21%
Be 313.042†	95.4	0.00022	mg/L	0.000033	0.02163	0.003310	15.30%
Ca 317.933†	3225.6	0.2622	mg/L	0.00178	26.22	0.178	0.68%
Cd 228.802†	-4.9	0.00037	mg/L	0.000139	0.03747	0.013922	37.16%
Co 228.616†	285.7	0.00776	mg/L	0.000119	0.7760	0.01186	1.53%
Cr 267.716†	1825.3	0.2666	mg/L	0.00096	26.66	0.096	0.36%
Cu 324.752†	516615.7	2.510	mg/L	0.0031	251.0	0.31	0.13%
Fe 273.955†	16864.6	12.99	mg/L	0.091	1299	9.06	0.70%
K 766.490†	375.6	0.2163	mg/L	0.01617	21.63	1.617	7.47%
Mg 279.077†	126.5	0.08550	mg/L	0.004786	8.550	0.4786	5.60%
Mn 257.610†	2184.7	0.05678	mg/L	0.000140	5.678	0.0140	0.25%
Mo 202.031†	1181.3	0.05925	mg/L	0.000204	5.925	0.0204	0.34%
Na 589.592†	3012.9	0.3449	mg/L	0.00854	34.49	0.854	2.48%
Na 330.237†	-2.7	-0.1278	mg/L	0.12222	-12.78	12.222	95.63%
Ni 231.604†	2881.7	0.5719	mg/L	0.00010	57.19	0.010	0.02%
Pb 220.353†	55.8	0.00368	mg/L	0.000606	0.3676	0.06059	16.48%
Sb 206.836†	25.2	0.00352	mg/L	0.001144	0.3525	0.11438	32.45%
Se 196.026†	-1.0	-0.00077	mg/L	0.001135	-0.07699	0.113514	147.43%
Si 288.158†	441.1	0.2180	mg/L	0.03027	21.80	3.027	13.88%
Sn 189.927†	94.5	0.02411	mg/L	0.000772	2.411	0.0772	3.20%
Sr 421.552†	500.9	0.00095	mg/L	0.000054	0.09459	0.005399	5.71%
Ti 334.903†	55.1	0.00315	mg/L	0.000568	0.3151	0.05679	18.02%
Tl 190.801†	-3.1	-0.00157	mg/L	0.000721	-0.1571	0.07214	45.93%
V 292.402†	87.7	0.00168	mg/L	0.000059	0.1676	0.000590	3.52%
Zn 206.200†	85.8	0.02137	mg/L	0.000492	2.137	0.0492	2.30%

Sequence No.: 11
 Sample ID: 17E0124-03
 Dilution: 50.000000X

DEL

Autosampler Location: 342
 Date Collected: 5/10/2017 1:48:31 PM
 Data Type: Original

Nebulizer Parameters: 17E0124-03

Analyte Back Pressure Flow
 All 159.0 kPa 0.65 L/min

Mean Data: 17E0124-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2308692.8	102.4	%	0.23			0.22%
ScR 361.383	248863.3	103.5	%	0.77			0.74%
Ag 328.068†	61.4	0.00040	mg/L	0.000058	0.01997	0.002914	14.59%
Al 308.215†	105.7	0.06976	mg/L	0.007323	3.488	0.3661	10.50%
As 188.979†	2.3	-0.00015	mg/L	0.000540	-0.00767	0.026994	351.93%
B 249.677†	7.3	0.00099	mg/L	0.002060	0.04933	0.103025	208.85%
Ba 233.527†	22.2	0.00035	mg/L	0.000434	0.01770	0.021697	122.55%
Be 313.042†	94.8	0.00021	mg/L	0.000013	0.01073	0.000636	5.93%
Ca 317.933†	5987.5	0.4867	mg/L	0.00093	24.34	0.046	0.19%
Cd 228.802†	-20.5	0.00038	mg/L	0.000219	0.01918	0.010959	57.14%
Co 228.616†	586.8	0.01594	mg/L	0.000289	0.7969	0.01443	1.81%

Cr 267.716†	3842.4	0.5613 mg/L	0.00304	28.06 mg/L	0.152	0.54%
Cu 324.752†	1086966.4	5.280 mg/L	0.0029	264.0 mg/L	0.15	0.06%
Fe 273.955†	35446.0	27.31 mg/L	0.051	1365 mg/L	2.54	0.19%
K 766.490†	666.9	0.3841 mg/L	0.00751	19.20 mg/L	0.375	1.95%
Mg 279.077†	265.1	0.1791 mg/L	0.00285	8.955 mg/L	0.1426	1.59%
Mn 257.610†	4576.9	0.1189 mg/L	0.00054	5.947 mg/L	0.0269	0.45%
Mo 202.031†	2441.9	0.1225 mg/L	0.00060	6.124 mg/L	0.0299	0.49%
Na 589.592†	5070.0	0.5804 mg/L	0.00729	29.02 mg/L	0.364	1.26%
Na 330.237†	8.8	0.3739 mg/L	0.27773	18.69 mg/L	13.886	74.28%
Ni 231.604†	5834.2	1.158 mg/L	0.0023	57.89 mg/L	0.115	0.20%
Pb 220.353†	95.5	0.00522 mg/L	0.000350	0.2608 mg/L	0.01752	6.72%
Sb 206.836†	39.7	0.00314 mg/L	0.002488	0.1571 mg/L	0.12438	79.16%
Se 196.026†	-1.7	-0.00129 mg/L	0.001913	-0.06454 mg/L	0.095635	148.18%
Si 288.158†	1327.6	0.6561 mg/L	0.12190	32.80 mg/L	6.095	18.58%
Sn 189.927†	204.6	0.05218 mg/L	0.000747	2.609 mg/L	0.0373	1.43%
Sr 421.552†	928.2	0.00175 mg/L	0.000013	0.08765 mg/L	0.000632	0.72%
Ti 334.903†	125.1	0.00719 mg/L	0.000488	0.3593 mg/L	0.02441	6.79%
Tl 190.801†	-3.2	-0.00163 mg/L	0.000887	-0.08167 mg/L	0.044361	54.32%
V 292.402†	162.0	0.00332 mg/L	0.000248	0.1659 mg/L	0.01240	7.47%
Zn 206.200†	162.4	0.04052 mg/L	0.000935	2.026 mg/L	0.0468	2.31%

Sequence No.: 12

Sample ID: BFE0283-BS1

Autosampler Location: 343

Date Collected: 5/10/2017 1:53:53 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BFE0283-BS1

Analyte Back Pressure Flow
 All 159.0 kPa 0.65 L/min

Mean Data: BFE0283-BS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2333025.4	103.5	%	0.15			0.15%
ScR 361.383	253362.1	105.4	%	2.05			1.95%
Ag 328.068†	4141.6	0.02694	mg/L	0.000253	0.02694 mg/L	0.000253	0.94%
Al 308.215†	17.6	0.01111	mg/L	0.001206	0.01111 mg/L	0.001206	10.85%
As 188.979†	45.0	0.02489	mg/L	0.001979	0.02489 mg/L	0.001979	7.95%
B 249.677†	-4.3	-0.00062	mg/L	0.000576	-0.00062 mg/L	0.000576	92.47%
Ba 233.527†	133.5	0.02650	mg/L	0.000456	0.02650 mg/L	0.000456	1.72%
Be 313.042†	11161.7	0.02533	mg/L	0.000304	0.02533 mg/L	0.000304	1.20%
Ca 317.933†	858.4	0.06977	mg/L	0.001183	0.06977 mg/L	0.001183	1.69%
Cd 228.802†	811.1	0.02895	mg/L	0.000041	0.02895 mg/L	0.000041	0.14%
Co 228.616†	1050.2	0.02880	mg/L	0.000277	0.02880 mg/L	0.000277	0.96%
Cr 267.716†	184.4	0.02687	mg/L	0.000262	0.02687 mg/L	0.000262	0.97%
Cu 324.752†	5762.0	0.02798	mg/L	0.000285	0.02798 mg/L	0.000285	1.02%
Fe 273.955†	2.7	0.00192	mg/L	0.000821	0.00192 mg/L	0.000821	42.73%
K 766.490†	717.8	0.4134	mg/L	0.03073	0.4134 mg/L	0.03073	7.43%
Mg 279.077†	5.0	0.00391	mg/L	0.006968	0.00391 mg/L	0.006968	178.18%
Mn 257.610†	1071.6	0.02782	mg/L	0.000634	0.02782 mg/L	0.000634	2.28%
Mo 202.031†	511.0	0.02563	mg/L	0.000169	0.02563 mg/L	0.000169	0.66%
Na 589.592†	5016.6	0.5743	mg/L	0.00538	0.5743 mg/L	0.00538	0.94%
Na 330.237†	1.3	0.02120	mg/L	0.328448	0.02120 mg/L	0.328448	>999.9%
Ni 231.604†	142.2	0.02823	mg/L	0.000325	0.02823 mg/L	0.000325	1.15%
Pb 220.353†	247.1	0.02836	mg/L	0.000505	0.02836 mg/L	0.000505	1.78%
Sb 206.836†	86.7	0.02748	mg/L	0.001746	0.02748 mg/L	0.001746	6.35%
Se 196.026†	122.0	0.09285	mg/L	0.004571	0.09285 mg/L	0.004571	4.92%
Si 288.158†	-0.6	-0.00024	mg/L	0.004751	-0.00024 mg/L	0.004751	>999.9%
Sn 189.927†	-1.2	-0.00028	mg/L	0.000968	-0.00028 mg/L	0.000968	348.34%
Sr 421.552†	96.2	0.00018	mg/L	0.000034	0.00018 mg/L	0.000034	18.52%
Ti 334.903†	8.1	0.00045	mg/L	0.000120	0.00045 mg/L	0.000120	26.95%
Tl 190.801†	59.0	0.02840	mg/L	0.000982	0.02840 mg/L	0.000982	3.46%
V 292.402†	2887.3	0.02706	mg/L	0.000332	0.02706 mg/L	0.000332	1.23%
Zn 206.200†	368.6	0.09163	mg/L	0.001805	0.09163 mg/L	0.001805	1.97%

Sequence No.: 13
 Sample ID: SEQ-CCV6
 Dilution: 1.000000X

Autosampler Location: 7
 Date Collected: 5/10/2017 1:58:55 PM
 Data Type: Original

Nebulizer Parameters: SEQ-CCV6

Analyte Back Pressure Flow
 All 160.0 kPa 0.65 L/min

Mean Data: SEQ-CCV6

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2284980.5	101.3	%	0.08			0.08%
ScR 361.383	250335.2	104.1	%	0.32			0.30%
Ag 328.068†	158493.9	1.031	mg/L	0.0052	1.031 mg/L	0.0052	0.50%
Al 308.215†	2979.3	1.997	mg/L	0.0169	1.997 mg/L	0.0169	0.85%
As 188.979†	3644.7	2.046	mg/L	0.0185	2.046 mg/L	0.0185	0.91%
B 249.677†	7289.6	0.9957	mg/L	0.00703	0.9957 mg/L	0.00703	0.71%
Ba 233.527†	5173.1	1.027	mg/L	0.0181	1.027 mg/L	0.0181	1.76%
Be 313.042†	455294.8	1.033	mg/L	0.0018	1.033 mg/L	0.0018	0.17%
Ca 317.933†	26096.0	2.121	mg/L	0.0076	2.121 mg/L	0.0076	0.36%
Cd 228.802†	29595.8	1.048	mg/L	0.0069	1.048 mg/L	0.0069	0.66%
Co 228.616†	38409.8	1.052	mg/L	0.0068	1.052 mg/L	0.0068	0.65%
Cr 267.716†	7145.1	1.041	mg/L	0.0057	1.041 mg/L	0.0057	0.55%
Cu 324.752†	210711.6	1.023	mg/L	0.0052	1.023 mg/L	0.0052	0.51%
Fe 273.955†	2646.7	2.032	mg/L	0.0102	2.032 mg/L	0.0102	0.50%
K 766.490†	35068.4	20.20	mg/L	0.084	20.20 mg/L	0.084	0.42%
Mg 279.077†	2850.5	2.095	mg/L	0.0184	2.095 mg/L	0.0184	0.88%
Mn 257.610†	38536.1	1.001	mg/L	0.0079	1.001 mg/L	0.0079	0.79%
Mo 202.031†	19838.5	0.9952	mg/L	0.00595	0.9952 mg/L	0.00595	0.60%
Na 589.592†	446468.8	51.11	mg/L	0.114	51.11 mg/L	0.114	0.22%
Na 330.237†	1164.5	50.96	mg/L	1.016	50.96 mg/L	1.016	1.99%
Ni 231.604†	5044.9	1.002	mg/L	0.0068	1.002 mg/L	0.0068	0.68%
Pb 220.353†	17647.4	2.026	mg/L	0.0108	2.026 mg/L	0.0108	0.53%
Sb 206.836†	6519.5	2.090	mg/L	0.0196	2.090 mg/L	0.0196	0.94%
Se 196.026†	2716.4	2.066	mg/L	0.0218	2.066 mg/L	0.0218	1.05%
Si 288.158†	4233.6	2.073	mg/L	0.0275	2.073 mg/L	0.0275	1.33%
Sn 189.927†	3968.4	1.012	mg/L	0.0091	1.012 mg/L	0.0091	0.90%
Sr 421.552†	541832.6	1.023	mg/L	0.0018	1.023 mg/L	0.0018	0.18%
Ti 334.903†	17086.9	1.018	mg/L	0.0064	1.018 mg/L	0.0064	0.63%
Tl 190.801†	4158.1	2.010	mg/L	0.0140	2.010 mg/L	0.0140	0.69%
V 292.402†	113420.9	1.062	mg/L	0.0062	1.062 mg/L	0.0062	0.58%
Zn 206.200†	4049.5	1.007	mg/L	0.0044	1.007 mg/L	0.0044	0.43%

Sequence No.: 14
 Sample ID: SEQ-CCB6
 Dilution: 1.000000X

Autosampler Location: 1
 Date Collected: 5/10/2017 2:04:34 PM
 Data Type: Original

Nebulizer Parameters: SEQ-CCB6

Analyte	Back Pressure	Flow
All	160.0 kPa	0.65 L/min

Mean Data: SEQ-CCB6

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2309420.0	102.4	%	0.54			0.52%
ScR 361.383	252710.1	105.1	%	1.09			1.04%
Ag 328.068†	-15.4	-0.00010	mg/L	0.000280	-0.00010	mg/L	0.000280 279.95%
Al 308.215†	11.0	0.00747	mg/L	0.007857	0.00747	mg/L	0.007857 105.19%
As 188.979†	-0.4	-0.00025	mg/L	0.001071	-0.00025	mg/L	0.001071 432.11%
B 249.677†	3.3	0.00045	mg/L	0.001602	0.00045	mg/L	0.001602 356.03%
Ba 233.527†	0.5	0.00009	mg/L	0.000539	0.00009	mg/L	0.000539 569.86%
Be 313.042†	51.2	0.00012	mg/L	0.000031	0.00012	mg/L	0.000031 26.61%
Ca 317.933†	-18.0	-0.00147	mg/L	0.000716	-0.00147	mg/L	0.000716 48.78%
Cd 228.802†	8.4	0.00030	mg/L	0.000061	0.00030	mg/L	0.000061 20.16%
Co 228.616†	-3.0	-0.00008	mg/L	0.000138	-0.00008	mg/L	0.000138 174.73%
Cr 267.716†	-0.9	-0.00014	mg/L	0.000656	-0.00014	mg/L	0.000656 483.88%
Cu 324.752†	104.6	0.00051	mg/L	0.000049	0.00051	mg/L	0.000049 9.72%
Fe 273.955†	1.6	0.00126	mg/L	0.000258	0.00126	mg/L	0.000258 20.49%
K 766.490†	10.3	0.00591	mg/L	0.009666	0.00591	mg/L	0.009666 163.58%
Mg 279.077†	4.4	0.00321	mg/L	0.000353	0.00321	mg/L	0.000353 10.97%
Mn 257.610†	6.1	0.00016	mg/L	0.000090	0.00016	mg/L	0.000090 57.47%
Mo 202.031†	6.7	0.00034	mg/L	0.000148	0.00034	mg/L	0.000148 44.13%
Na 589.592†	161.4	0.01848	mg/L	0.003076	0.01848	mg/L	0.003076 16.64%
Na 330.237†	9.0	0.3961	mg/L	0.31500	0.3961	mg/L	0.31500 79.53%
Ni 231.604†	-7.1	-0.00141	mg/L	0.000827	-0.00141	mg/L	0.000827 58.79%
Pb 220.353†	0.0	0.00001	mg/L	0.001019	0.00001	mg/L	0.001019 >999.9%
Sb 206.836†	5.0	0.00159	mg/L	0.001361	0.00159	mg/L	0.001361 85.49%
Se 196.026†	0.6	0.00046	mg/L	0.004300	0.00046	mg/L	0.004300 944.88%
Si 288.158†	-0.1	-0.00003	mg/L	0.002151	-0.00003	mg/L	0.002151 >999.9%
Sn 189.927†	-3.1	-0.00080	mg/L	0.000717	-0.00080	mg/L	0.000717 89.90%
Sr 421.552†	49.1	0.00009	mg/L	0.000039	0.00009	mg/L	0.000039 41.86%
Ti 334.903†	-20.3	-0.00121	mg/L	0.000759	-0.00121	mg/L	0.000759 62.60%
Tl 190.801†	5.3	0.00256	mg/L	0.001711	0.00256	mg/L	0.001711 66.93%
V 292.402†	7.7	0.00007	mg/L	0.000030	0.00007	mg/L	0.000030 42.34%
Zn 206.200†	3.2	0.00081	mg/L	0.001190	0.00081	mg/L	0.001190 147.76%

Sequence No.: 15

Autosampler Location: 344

Sample ID: BFE0238-BLK1

Date Collected: 5/10/2017 2:08:34 PM

Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: BFE0238-BLK1

Analyte	Back Pressure	Flow
All	159.0 kPa	0.65 L/min

Mean Data: BFE0238-BLK1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2227109.1	98.77 %	%	0.627			0.64%
ScR 361.383	244571.8	101.7 %	%	0.10			0.10%
Ag 328.068†	-1.3	-0.00001 mg/L	mg/L	0.000088	-0.00004 mg/L	0.000438	>999.9%
Al 308.215†	33.5	0.02285 mg/L	mg/L	0.007734	0.1142 mg/L	0.03867	33.85%
As 188.979†	1.1	0.00061 mg/L	mg/L	0.001489	0.00305 mg/L	0.007443	243.79%
B 249.677†	174.7	0.02389 mg/L	mg/L	0.000783	0.1195 mg/L	0.00392	3.28%
Ba 233.527†	37.8	0.00751 mg/L	mg/L	0.001070	0.03754 mg/L	0.005351	14.26%
Be 313.042†	89.1	0.00020 mg/L	mg/L	0.000046	0.00101 mg/L	0.000229	22.65%
Ca 317.933†	3658.5	0.2974 mg/L	mg/L	0.00274	1.487 mg/L	0.0137	0.92%
Cd 228.802†	7.0	0.00025 mg/L	mg/L	0.000088	0.00124 mg/L	0.000438	35.36%
Co 228.616†	0.0	0.00000 mg/L	mg/L	0.000101	0.00000 mg/L	0.000505	>999.9%
Cr 267.716†	14.5	0.00211 mg/L	mg/L	0.000839	0.01057 mg/L	0.004197	39.71%
Cu 324.752†	259.4	0.00126 mg/L	mg/L	0.000109	0.00630 mg/L	0.000543	8.62%
Fe 273.955†	37.6	0.02898 mg/L	mg/L	0.001663	0.1449 mg/L	0.00832	5.74%
K 766.490†	190.0	0.1094 mg/L	mg/L	0.01270	0.5471 mg/L	0.06349	11.61%
Mg 279.077†	75.0	0.05488 mg/L	mg/L	0.007596	0.2744 mg/L	0.03798	13.84%
Mn 257.610†	35.5	0.00092 mg/L	mg/L	0.000044	0.00461 mg/L	0.000219	4.75%
Mo 202.031†	10.1	0.00050 mg/L	mg/L	0.000205	0.00252 mg/L	0.001026	40.69%
Na 589.592†	2427016.0	277.8 mg/L	mg/L	0.88	1389 mg/L	4.38	0.32%
Na 330.237†	6397.9	281.0 mg/L	mg/L	1.97	1405 mg/L	9.83	0.70%
Ni 231.604†	-2.2	-0.00043 mg/L	mg/L	0.000841	-0.00216 mg/L	0.004205	195.08%
Pb 220.353†	4.4	0.00052 mg/L	mg/L	0.000591	0.00259 mg/L	0.002955	113.99%
Sb 206.836†	1.9	0.00058 mg/L	mg/L	0.000358	0.00290 mg/L	0.001788	61.56%
Se 196.026†	4.9	0.00369 mg/L	mg/L	0.003421	0.01845 mg/L	0.017104	92.71%
Si 288.158†	53.8	0.02660 mg/L	mg/L	0.002689	0.1330 mg/L	0.01345	10.11%
Sn 189.927†	-3.0	-0.00071 mg/L	mg/L	0.001234	-0.00356 mg/L	0.006169	173.37%
Sr 421.552†	192.5	0.00036 mg/L	mg/L	0.000059	0.00182 mg/L	0.000296	16.29%
Ti 334.903†	1.6	0.00008 mg/L	mg/L	0.001249	0.00039 mg/L	0.006244	>999.9%
Tl 190.801†	2.0	0.00095 mg/L	mg/L	0.001347	0.00476 mg/L	0.006735	141.42%
V 292.402†	27.7	0.00027 mg/L	mg/L	0.000308	0.00134 mg/L	0.001542	115.08%
Zn 206.200†	19.5	0.00485 mg/L	mg/L	0.000366	0.02426 mg/L	0.001830	7.54%

Sequence No.: 16

Sample ID: 17E0012-01

Autosampler Location: 345

Date Collected: 5/10/2017 2:12:51 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 17E0012-01

Analyte	Back Pressure	Flow
All	161.0 kPa	0.65 L/min

Mean Data: 17E0012-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2186801.2	96.98	%	0.283				0.29%
ScR 361.383	248955.4	103.6	%	1.28				1.24%
Ag 328.068†	1135.7	0.00739	mg/L	0.000036	0.00739	mg/L	0.000036	0.49%
Al 308.215†	1070.2	0.7299	mg/L	0.00873	0.7299	mg/L	0.00873	1.20%
As 188.979†	110.8	0.05991	mg/L	0.002349	0.05991	mg/L	0.002349	3.92%
B 249.677†	1211.0	0.1657	mg/L	0.00223	0.1657	mg/L	0.00223	1.35%
Ba 233.527†	8.5	0.00137	mg/L	0.001085	0.00137	mg/L	0.001085	79.28%
Be 313.042†	81.7	0.00018	mg/L	0.000051	0.00018	mg/L	0.000051	27.77%
Ca 317.933†	392761.9	31.93	mg/L	0.160	31.93	mg/L	0.160	0.50%
Cd 228.802†	1847.8	0.06587	mg/L	0.000297	0.06587	mg/L	0.000297	0.45%
Co 228.616†	54.5	0.00143	mg/L	0.000026	0.00143	mg/L	0.000026	1.85%
Cr 267.716†	57.7	0.00538	mg/L	0.000672	0.00538	mg/L	0.000672	12.49%
Cu 324.752†	70927.9	0.3438	mg/L	0.00088	0.3438	mg/L	0.00088	0.26%
Fe 273.955†	2802.4	2.159	mg/L	0.0212	2.159	mg/L	0.0212	0.98%
K 766.490†	143451.3	82.62	mg/L	0.229	82.62	mg/L	0.229	0.28%
Mg 279.077†	47261.4	34.58	mg/L	0.012	34.58	mg/L	0.012	0.03%
Mn 257.610†	4723.8	0.1225	mg/L	0.00150	0.1225	mg/L	0.00150	1.22%
Mo 202.031†	127.7	0.00597	mg/L	0.000084	0.00597	mg/L	0.000084	1.42%
Na 589.592†	2064134.3	236.3	mg/L	1.70	236.3	mg/L	1.70	0.72%
Na 330.237†	5465.9	238.2	mg/L	1.06	238.2	mg/L	1.06	0.45%
Ni 231.604†	23.3	0.00463	mg/L	0.000365	0.00463	mg/L	0.000365	7.89%
Pb 220.353†	37.9	0.00413	mg/L	0.000128	0.00413	mg/L	0.000128	3.09%
Sb 206.836†	5.7	0.00163	mg/L	0.002150	0.00163	mg/L	0.002150	131.63%
Se 196.026†	19.3	0.01458	mg/L	0.002776	0.01458	mg/L	0.002776	19.04%
Si 288.158†	1019.5	0.5031	mg/L	0.00707	0.5031	mg/L	0.00707	1.40%
Sn 189.927†	-27.0	-0.00186	mg/L	0.000268	-0.00186	mg/L	0.000268	14.43%
Sr 421.552†	129009.5	0.2436	mg/L	0.00081	0.2436	mg/L	0.00081	0.33%
Ti 334.903†	580.0	0.03271	mg/L	0.000267	0.03271	mg/L	0.000267	0.82%
Tl 190.801†	-0.6	-0.00033	mg/L	0.003760	-0.00033	mg/L	0.003760	>999.9%
V 292.402†	484.1	0.00447	mg/L	0.000360	0.00447	mg/L	0.000360	8.04%
Zn 206.200†	18567.7	4.616	mg/L	0.0022	4.616	mg/L	0.0022	0.05%

Sequence No.: 17

Sample ID: 17E0012-02

Autosampler Location: 346

Date Collected: 5/10/2017 2:17:06 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 17E0012-02

Analyte Back Pressure Flow
 All 162.0 kPa 0.65 L/min

Mean Data: 17E0012-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2207770.4	97.91	%	0.386				0.39%
ScR 361.383	253932.4	105.6	%	0.48				0.45%
Ag 328.068†	-50.9	-0.00033	mg/L	0.000193	-0.00033	mg/L	0.000193	58.75%
Al 308.215†	3509.3	2.394	mg/L	0.0141	2.394	mg/L	0.0141	0.59%
As 188.979†	68.7	0.03929	mg/L	0.002668	0.03929	mg/L	0.002668	6.79%
B 249.677†	419.9	0.05740	mg/L	0.000888	0.05740	mg/L	0.000888	1.55%
Ba 233.527†	46.6	0.00853	mg/L	0.000758	0.00853	mg/L	0.000758	8.89%
Be 313.042†	169.9	0.00038	mg/L	0.000029	0.00038	mg/L	0.000029	7.69%
Ca 317.933†	292403.0	23.77	mg/L	0.275	23.77	mg/L	0.275	1.16%
Cd 228.802†	92.7	0.00308	mg/L	0.000163	0.00308	mg/L	0.000163	5.29%
Co 228.616†	319.6	0.00854	mg/L	0.000086	0.00854	mg/L	0.000086	1.01%
Cr 267.716†	124.6	0.01545	mg/L	0.000339	0.01545	mg/L	0.000339	2.19%
Cu 324.752†	5426.0	0.02582	mg/L	0.000236	0.02582	mg/L	0.000236	0.91%
Fe 273.955†	6534.6	5.034	mg/L	0.0224	5.034	mg/L	0.0224	0.44%
K 766.490†	137799.7	79.36	mg/L	0.274	79.36	mg/L	0.274	0.35%
Mg 279.077†	48962.0	35.82	mg/L	0.051	35.82	mg/L	0.051	0.14%
Mn 257.610†	2465.8	0.06393	mg/L	0.000382	0.06393	mg/L	0.000382	0.60%
Mo 202.031†	159.8	0.00769	mg/L	0.000182	0.00769	mg/L	0.000182	2.36%
Na 589.592†	2118390.6	242.5	mg/L	1.98	242.5	mg/L	1.98	0.82%
Na 330.237†	5627.8	247.0	mg/L	1.50	247.0	mg/L	1.50	0.61%
Ni 231.604†	225.9	0.04483	mg/L	0.000765	0.04483	mg/L	0.000765	1.71%
Pb 220.353†	34.2	0.00459	mg/L	0.000831	0.00459	mg/L	0.000831	18.11%
Sb 206.836†	7.6	0.00213	mg/L	0.001342	0.00213	mg/L	0.001342	62.92%
Se 196.026†	17.3	0.01277	mg/L	0.004204	0.01277	mg/L	0.004204	32.93%
Si 288.158†	1183.0	0.5821	mg/L	0.00570	0.5821	mg/L	0.00570	0.98%
Sn 189.927†	-24.0	-0.00237	mg/L	0.001718	-0.00237	mg/L	0.001718	72.37%
Sr 421.552†	154212.0	0.2912	mg/L	0.00087	0.2912	mg/L	0.00087	0.30%
Ti 334.903†	2012.7	0.1186	mg/L	0.00103	0.1186	mg/L	0.00103	0.87%
Tl 190.801†	-1.6	-0.00084	mg/L	0.002815	-0.00084	mg/L	0.002815	335.99%
V 292.402†	993.1	0.00910	mg/L	0.000155	0.00910	mg/L	0.000155	1.71%
Zn 206.200†	1981.7	0.4927	mg/L	0.00234	0.4927	mg/L	0.00234	0.48%

Sequence No.: 18

Sample ID: 17E0012-03

Autosampler Location: 347

Date Collected: 5/10/2017 2:21:22 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 17E0012-03

Analyte Back Pressure Flow
 All 161.0 kPa 0.65 L/min

Mean Data: 17E0012-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2242091.1	99.43	%	0.338				0.34%
ScR 361.383	245654.8	102.2	%	1.62				1.59%
Ag 328.068†	280.8	0.00183	mg/L	0.000154	0.00183	mg/L	0.000154	8.44%
Al 308.215†	2066.7	1.410	mg/L	0.0274	1.410	mg/L	0.0274	1.95%
As 188.979†	132.8	0.07358	mg/L	0.001081	0.07358	mg/L	0.001081	1.47%
B 249.677†	795.3	0.1088	mg/L	0.00201	0.1088	mg/L	0.00201	1.85%
Ba 233.527†	68.4	0.01318	mg/L	0.000785	0.01318	mg/L	0.000785	5.96%
Be 313.042†	132.9	0.00030	mg/L	0.000041	0.00030	mg/L	0.000041	13.81%
Ca 317.933†	243721.8	19.81	mg/L	0.012	19.81	mg/L	0.012	0.06%
Cd 228.802†	305.8	0.01043	mg/L	0.000107	0.01043	mg/L	0.000107	1.03%
Co 228.616†	155.7	0.00417	mg/L	0.000136	0.00417	mg/L	0.000136	3.27%
Cr 267.716†	101.9	0.01225	mg/L	0.001525	0.01225	mg/L	0.001525	12.44%
Cu 324.752†	11466.1	0.05503	mg/L	0.000350	0.05503	mg/L	0.000350	0.64%
Fe 273.955†	3662.6	2.821	mg/L	0.0505	2.821	mg/L	0.0505	1.79%
K 766.490†	151934.4	87.50	mg/L	0.309	87.50	mg/L	0.309	0.35%
Mg 279.077†	46141.8	33.76	mg/L	0.435	33.76	mg/L	0.435	1.29%
Mn 257.610†	2805.1	0.07275	mg/L	0.001327	0.07275	mg/L	0.001327	1.82%
Mo 202.031†	181.7	0.00884	mg/L	0.000108	0.00884	mg/L	0.000108	1.22%
Na 589.592†	1812033.8	207.4	mg/L	0.77	207.4	mg/L	0.77	0.37%
Na 330.237†	4819.9	211.5	mg/L	4.01	211.5	mg/L	4.01	1.90%
Ni 231.604†	83.1	0.01649	mg/L	0.000919	0.01649	mg/L	0.000919	5.57%
Pb 220.353†	20.8	0.00274	mg/L	0.000444	0.00274	mg/L	0.000444	16.20%
Sb 206.836†	6.1	0.00169	mg/L	0.000647	0.00169	mg/L	0.000647	38.39%
Se 196.026†	23.7	0.01780	mg/L	0.001876	0.01780	mg/L	0.001876	10.54%
Si 288.158†	1065.7	0.5255	mg/L	0.00362	0.5255	mg/L	0.00362	0.69%
Sn 189.927†	-20.5	-0.00212	mg/L	0.000859	-0.00212	mg/L	0.000859	40.49%
Sr 421.552†	131902.7	0.2491	mg/L	0.00085	0.2491	mg/L	0.00085	0.34%
Ti 334.903†	921.1	0.05376	mg/L	0.001574	0.05376	mg/L	0.001574	2.93%
Tl 190.801†	0.8	0.00036	mg/L	0.001966	0.00036	mg/L	0.001966	547.78%
V 292.402†	690.8	0.00639	mg/L	0.000141	0.00639	mg/L	0.000141	2.21%
Zn 206.200†	2086.8	0.5188	mg/L	0.00763	0.5188	mg/L	0.00763	1.47%

Sequence No.: 19

Sample ID: 17E0012-04

Autosampler Location: 348

Date Collected: 5/10/2017 2:25:37 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 17E0012-04

Analyte	Back Pressure	Flow
All	162.0 kPa	0.65 L/min

Mean Data: 17E0012-04

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2210986.5	98.05	%	0.732			0.75%
ScR 361.383	253990.4	105.7	%	0.40			0.38%
Ag 328.068†	142.9	0.00093	mg/L	0.000112	0.00093 mg/L	0.000112	12.05%
Al 308.215†	4468.5	3.048	mg/L	0.0137	3.048 mg/L	0.0137	0.45%
As 188.979†	119.1	0.06690	mg/L	0.002971	0.06690 mg/L	0.002971	4.44%
B 249.677†	509.7	0.06967	mg/L	0.000584	0.06967 mg/L	0.000584	0.84%
Ba 233.527†	49.9	0.00903	mg/L	0.000949	0.00903 mg/L	0.000949	10.52%
Be 313.042†	108.6	0.00024	mg/L	0.000017	0.00024 mg/L	0.000017	7.24%
Ca 317.933†	418743.0	34.04	mg/L	0.076	34.04 mg/L	0.076	0.22%
Cd 228.802†	320.5	0.01105	mg/L	0.000073	0.01105 mg/L	0.000073	0.66%
Co 228.616†	317.5	0.00845	mg/L	0.000082	0.00845 mg/L	0.000082	0.98%
Cr 267.716†	373.5	0.05151	mg/L	0.000476	0.05151 mg/L	0.000476	0.92%
Cu 324.752†	9807.3	0.04712	mg/L	0.000544	0.04712 mg/L	0.000544	1.15%
Fe 273.955†	7967.0	6.137	mg/L	0.0485	6.137 mg/L	0.0485	0.79%
K 766.490†	140852.4	81.12	mg/L	0.053	81.12 mg/L	0.053	0.07%
Mg 279.077†	52558.0	38.45	mg/L	0.109	38.45 mg/L	0.109	0.28%
Mn 257.610†	4899.1	0.1271	mg/L	0.00045	0.1271 mg/L	0.00045	0.35%
Mo 202.031†	178.4	0.00848	mg/L	0.000264	0.00848 mg/L	0.000264	3.11%
Na 589.592†	1972455.6	225.8	mg/L	0.40	225.8 mg/L	0.40	0.18%
Na 330.237†	5173.1	227.0	mg/L	0.76	227.0 mg/L	0.76	0.33%
Ni 231.604†	257.9	0.05119	mg/L	0.000956	0.05119 mg/L	0.000956	1.87%
Pb 220.353†	30.8	0.00443	mg/L	0.000463	0.00443 mg/L	0.000463	10.46%
Sb 206.836†	11.1	0.00262	mg/L	0.001668	0.00262 mg/L	0.001668	63.62%
Se 196.026†	21.6	0.01591	mg/L	0.003546	0.01591 mg/L	0.003546	22.29%
Si 288.158†	1352.0	0.6652	mg/L	0.00316	0.6652 mg/L	0.00316	0.47%
Sn 189.927†	-29.5	-0.00217	mg/L	0.001120	-0.00217 mg/L	0.001120	51.70%
Sr 421.552†	202849.4	0.3831	mg/L	0.00067	0.3831 mg/L	0.00067	0.18%
Ti 334.903†	2321.2	0.1364	mg/L	0.00127	0.1364 mg/L	0.00127	0.93%
Tl 190.801†	-3.3	-0.00170	mg/L	0.001666	-0.00170 mg/L	0.001666	98.21%
V 292.402†	1409.6	0.01312	mg/L	0.000060	0.01312 mg/L	0.000060	0.46%
Zn 206.200†	2160.5	0.5372	mg/L	0.00241	0.5372 mg/L	0.00241	0.45%

Sequence No.: 20
 Sample ID: 17E0085-01

Autosampler Location: 349
 Date Collected: 5/10/2017 2:29:54 PM
 Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: 17E0085-01

Analyte	Back Pressure	Flow
All	162.0 kPa	0.65 L/min

Mean Data: 17E0085-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2318892.9	102.8	%	0.25			0.24%
ScR 361.383	255744.5	106.4	%	0.64			0.60%
Ag 328.068†	-116.0	-0.00068	mg/L	0.000309	-0.00342 mg/L	0.001543	45.10%
Al 308.215†	115214.8	78.59	mg/L	0.209	393.0 mg/L	1.05	0.27%
As 188.979†	-64.5	0.01762	mg/L	0.003505	0.08808 mg/L	0.017525	19.90%
B 249.677†	57.9	0.00733	mg/L	0.000380	0.03664 mg/L	0.001902	5.19%
Ba 233.527†	1346.2	0.2512	mg/L	0.00180	1.256 mg/L	0.0090	0.72%
Be 313.042†	679.4	0.00145	mg/L	0.000026	0.00725 mg/L	0.000130	1.79%
Ca 317.933†	350627.7	28.50	mg/L	0.113	142.5 mg/L	0.57	0.40%
Cd 228.802†	17.9	0.00101	mg/L	0.000090	0.00504 mg/L	0.000448	8.88%
Co 228.616†	1713.4	0.04289	mg/L	0.000127	0.2145 mg/L	0.00064	0.30%
Cr 267.716†	748.6	0.1099	mg/L	0.00043	0.5495 mg/L	0.00213	0.39%
Cu 324.752†	25701.2	0.1294	mg/L	0.00053	0.6472 mg/L	0.00263	0.41%
Fe 273.955†	144950.6	111.7	mg/L	0.37	558.3 mg/L	1.87	0.33%
K 766.490†	5767.3	3.321	mg/L	0.0317	16.61 mg/L	0.158	0.95%
Mg 279.077†	50206.4	36.67	mg/L	0.136	183.3 mg/L	0.68	0.37%
Mn 257.610†	68621.0	1.781	mg/L	0.0050	8.906 mg/L	0.0248	0.28%
Mo 202.031†	42.5	0.00173	mg/L	0.000211	0.00866 mg/L	0.001056	12.20%
Na 589.592†	16175.3	1.852	mg/L	0.0153	9.258 mg/L	0.0765	0.83%
Na 330.237†	28.1	1.619	mg/L	0.0815	8.094 mg/L	0.4074	5.03%
Ni 231.604†	594.5	0.1180	mg/L	0.00063	0.5900 mg/L	0.00315	0.53%
Pb 220.353†	-23.7	0.01945	mg/L	0.000869	0.09724 mg/L	0.004345	4.47%
Sb 206.836†	29.6	0.00936	mg/L	0.001904	0.04680 mg/L	0.009522	20.35%
Se 196.026†	21.1	0.00287	mg/L	0.003263	0.01433 mg/L	0.016316	113.83%
Si 288.158†	2013.2	0.9486	mg/L	0.00815	4.743 mg/L	0.0408	0.86%
Sn 189.927†	-42.9	-0.00645	mg/L	0.000920	-0.03224 mg/L	0.004600	14.27%
Sr 421.552†	110455.1	0.2086	mg/L	0.00066	1.043 mg/L	0.0033	0.32%
Ti 334.903†	37344.0	2.225	mg/L	0.0040	11.13 mg/L	0.020	0.18%
Tl 190.801†	-21.9	-0.01171	mg/L	0.003681	-0.05857 mg/L	0.018406	31.42%
V 292.402†	24747.8	0.2260	mg/L	0.00134	1.130 mg/L	0.0067	0.59%
Zn 206.200†	872.4	0.2171	mg/L	0.00204	1.085 mg/L	0.0102	0.94%

Sequence No.: 21
 Sample ID: 17D0447-08
 Dilution: 5.000000X

Autosampler Location: 350
 Date Collected: 5/10/2017 2:33:53 PM
 Data Type: Original

Nebulizer Parameters: 17D0447-08

Analyte Back Pressure Flow
 All 161.0 kPa 0.65 L/min

Mean Data: 17D0447-08

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2311950.6	102.5	%	0.69			0.67%
ScR 361.383	255772.7	106.4	%	1.00			0.94%
Ag 328.068†	15.7	0.00014	mg/L	0.000052	0.00072 mg/L	0.000260	36.32%
Al 308.215†	41939.4	28.61	mg/L	0.096	143.0 mg/L	0.48	0.34%
As 188.979†	31.1	0.05740	mg/L	0.001657	0.2870 mg/L	0.00829	2.89%
B 249.677†	697.9	0.09506	mg/L	0.001608	0.4753 mg/L	0.00804	1.69%
Ba 233.527†	1189.2	0.2203	mg/L	0.00398	1.102 mg/L	0.0199	1.80%
Be 313.042†	287.7	0.00059	mg/L	0.000021	0.00297 mg/L	0.000105	3.54%
Ca 317.933†	170408.1	13.85	mg/L	0.038	69.26 mg/L	0.189	0.27%
Cd 228.802†	79.1	0.00276	mg/L	0.000219	0.01382 mg/L	0.001094	7.92%
Co 228.616†	821.9	0.01951	mg/L	0.000266	0.09753 mg/L	0.001330	1.36%
Cr 267.716†	612.7	0.09169	mg/L	0.000527	0.4585 mg/L	0.00264	0.57%
Cu 324.752†	35809.7	0.1787	mg/L	0.00158	0.8936 mg/L	0.00791	0.88%
Fe 273.955†	142794.8	110.0	mg/L	1.04	550.0 mg/L	5.18	0.94%
K 766.490†	5414.3	3.118	mg/L	0.0077	15.59 mg/L	0.039	0.25%
Mg 279.077†	21611.4	15.75	mg/L	0.151	78.74 mg/L	0.755	0.96%
Mn 257.610†	37719.9	0.9795	mg/L	0.00806	4.897 mg/L	0.0403	0.82%
Mo 202.031†	133.1	0.00648	mg/L	0.000273	0.03241 mg/L	0.001366	4.22%
Na 589.592†	184636.4	21.14	mg/L	0.078	105.7 mg/L	0.39	0.37%
Na 330.237†	482.8	21.15	mg/L	0.177	105.7 mg/L	0.88	0.84%
Ni 231.604†	355.1	0.07048	mg/L	0.000217	0.3524 mg/L	0.00109	0.31%
Pb 220.353†	2022.7	0.2401	mg/L	0.00303	1.200 mg/L	0.0151	1.26%
Sb 206.836†	29.2	0.00904	mg/L	0.001678	0.04519 mg/L	0.008392	18.57%
Se 196.026†	12.2	0.00445	mg/L	0.004603	0.02224 mg/L	0.023017	103.49%
Si 288.158†	3169.2	1.532	mg/L	0.0166	7.659 mg/L	0.0831	1.08%
Sn 189.927†	12.3	0.00531	mg/L	0.001038	0.02654 mg/L	0.005188	19.54%
Sr 421.552†	97483.7	0.1841	mg/L	0.00053	0.9205 mg/L	0.00265	0.29%
Ti 334.903†	27648.2	1.648	mg/L	0.0033	8.240 mg/L	0.0165	0.20%
Tl 190.801†	-19.2	-0.00994	mg/L	0.000563	-0.04972 mg/L	0.002814	5.66%
V 292.402†	14434.6	0.1301	mg/L	0.00112	0.6503 mg/L	0.00562	0.86%
Zn 206.200†	4073.3	1.013	mg/L	0.0099	5.064 mg/L	0.0494	0.98%

Sequence No.: 22

Autosampler Location: 351

Sample ID: BFE0238-DUP1

Date Collected: 5/10/2017 2:37:52 PM

Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: BFE0238-DUP1

Analyte Back Pressure Flow
 All 161.0 kPa 0.65 L/min

Mean Data: BFE0238-DUP1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2162656.9	95.91	%	0.428			0.45%
ScR 361.383	237102.6	98.64	%	0.834			0.85%
Ag 328.068†	24.3	0.00016	mg/L	0.000120	0.00079 mg/L	0.000599	75.58%
Al 308.215†	29.4	0.01997	mg/L	0.006295	0.09986 mg/L	0.031477	31.52%
As 188.979†	-1.5	-0.00151	mg/L	0.002448	-0.00757 mg/L	0.012238	161.66%
B 249.677†	319.9	0.04377	mg/L	0.000874	0.2188 mg/L	0.00437	2.00%
Ba 233.527†	43.1	0.00855	mg/L	0.000671	0.04274 mg/L	0.003353	7.85%
Be 313.042†	99.4	0.00023	mg/L	0.000018	0.00113 mg/L	0.000091	8.09%
Ca 317.933†	101522.1	8.253	mg/L	0.0660	41.26 mg/L	0.330	0.80%
Cd 228.802†	10.0	0.00037	mg/L	0.000232	0.00183 mg/L	0.001162	63.55%
Co 228.616†	-2.0	-0.00006	mg/L	0.000208	-0.00028 mg/L	0.001039	371.05%
Cr 267.716†	37.3	-0.00086	mg/L	0.001976	-0.00432 mg/L	0.009881	228.80%
Cu 324.752†	1100.1	0.00465	mg/L	0.000080	0.02326 mg/L	0.000399	1.72%
Fe 273.955†	16.8	0.01295	mg/L	0.002473	0.06476 mg/L	0.012366	19.10%
K 766.490†	725.9	0.4181	mg/L	0.01117	2.090 mg/L	0.0559	2.67%
Mg 279.077†	114792.6	83.99	mg/L	0.813	419.9 mg/L	4.07	0.97%
Mn 257.610†	1806.6	0.04686	mg/L	0.000410	0.2343 mg/L	0.00205	0.88%
Mo 202.031†	63.4	0.00307	mg/L	0.000111	0.01534 mg/L	0.000556	3.62%
Na 589.592†	2438692.6	279.2	mg/L	1.34	1396 mg/L	6.70	0.48%
Na 330.237†	6469.2	284.1	mg/L	3.04	1421 mg/L	15.19	1.07%
Ni 231.604†	-5.6	-0.00111	mg/L	0.001726	-0.00555 mg/L	0.008631	155.43%
Pb 220.353†	-4.8	-0.00054	mg/L	0.000339	-0.00270 mg/L	0.001693	62.77%
Sb 206.836†	5.7	0.00168	mg/L	0.001661	0.00840 mg/L	0.008304	98.87%
Se 196.026†	5.2	0.00395	mg/L	0.005299	0.01974 mg/L	0.026496	134.21%
Si 288.158†	1433.9	0.7086	mg/L	0.01093	3.543 mg/L	0.0546	1.54%
Sn 189.927†	-18.4	-0.00338	mg/L	0.000320	-0.01692 mg/L	0.001602	9.47%
Sr 421.552†	18925.4	0.03574	mg/L	0.000360	0.1787 mg/L	0.00180	1.01%
Ti 334.903†	-1.0	-0.00055	mg/L	0.000887	-0.00274 mg/L	0.004435	161.79%
Tl 190.801†	-8.3	-0.00401	mg/L	0.000761	-0.02007 mg/L	0.003807	18.97%
V 292.402†	74.9	0.00073	mg/L	0.000403	0.00366 mg/L	0.002015	55.01%
Zn 206.200†	16.7	0.00430	mg/L	0.000534	0.02149 mg/L	0.002669	12.42%

Sequence No.: 23

Autosampler Location: 352

Sample ID: 17E0111-01

Date Collected: 5/10/2017 2:42:07 PM

Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: 17E0111-01

Analyte Back Pressure Flow
 All 163.0 kPa 0.65 L/min

Mean Data: 17E0111-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2151102.1	95.40	%	0.206				0.22%
ScR 361.383	245065.2	101.9	%	0.40				0.39%
Ag 328.068†	-25.6	-0.00017	mg/L	0.000550	-0.00083	mg/L	0.002752	330.95%
Al 308.215†	22.8	0.01553	mg/L	0.005592	0.07764	mg/L	0.027958	36.01%
As 188.979†	0.4	-0.00040	mg/L	0.001250	-0.00198	mg/L	0.006250	315.22%
B 249.677†	299.8	0.04101	mg/L	0.001081	0.2050	mg/L	0.00541	2.64%
Ba 233.527†	38.8	0.00770	mg/L	0.000653	0.03848	mg/L	0.003267	8.49%
Be 313.042†	103.1	0.00023	mg/L	0.000024	0.00117	mg/L	0.000121	10.32%
Ca 317.933†	95350.0	7.751	mg/L	0.0041	38.75	mg/L	0.021	0.05%
Cd 228.802†	11.3	0.00041	mg/L	0.000015	0.00203	mg/L	0.000073	3.58%
Co 228.616†	-3.8	-0.00011	mg/L	0.000172	-0.00053	mg/L	0.000859	161.41%
Cr 267.716†	41.7	0.00016	mg/L	0.000528	0.00081	mg/L	0.002638	324.10%
Cu 324.752†	1089.3	0.00464	mg/L	0.000072	0.02321	mg/L	0.000359	1.55%
Fe 273.955†	8.7	0.00673	mg/L	0.001339	0.03364	mg/L	0.006695	19.90%
K 766.490†	666.8	0.3840	mg/L	0.00499	1.920	mg/L	0.0250	1.30%
Mg 279.077†	107723.0	78.82	mg/L	0.129	394.1	mg/L	0.65	0.16%
Mn 257.610†	1693.5	0.04393	mg/L	0.000208	0.2196	mg/L	0.00104	0.47%
Mo 202.031†	56.3	0.00272	mg/L	0.000114	0.01358	mg/L	0.000568	4.19%
Na 589.592†	2321733.5	265.8	mg/L	2.02	1329	mg/L	10.09	0.76%
Na 330.237†	6126.1	269.0	mg/L	1.31	1345	mg/L	6.53	0.49%
Ni 231.604†	3.1	0.00061	mg/L	0.001730	0.00304	mg/L	0.008651	284.53%
Pb 220.353†	-10.2	-0.00116	mg/L	0.000601	-0.00580	mg/L	0.003005	51.77%
Sb 206.836†	5.5	0.00160	mg/L	0.001601	0.00798	mg/L	0.008005	100.30%
Se 196.026†	10.1	0.00766	mg/L	0.000909	0.03831	mg/L	0.004543	11.86%
Si 288.158†	1364.5	0.6743	mg/L	0.00227	3.371	mg/L	0.0114	0.34%
Sn 189.927†	-18.0	-0.00337	mg/L	0.001021	-0.01687	mg/L	0.005103	30.26%
Sr 421.552†	18014.0	0.03402	mg/L	0.000086	0.1701	mg/L	0.00043	0.25%
Ti 334.903†	5.1	-0.00015	mg/L	0.000275	-0.00077	mg/L	0.001374	178.16%
Tl 190.801†	-4.3	-0.00209	mg/L	0.001836	-0.01043	mg/L	0.009181	88.00%
V 292.402†	18.0	0.00020	mg/L	0.000285	0.00102	mg/L	0.001426	139.57%
Zn 206.200†	146.6	0.03657	mg/L	0.000514	0.1829	mg/L	0.00257	1.41%

Sequence No.: 24

Autosampler Location: 353

Sample ID: BFE0238-MS1

Date Collected: 5/10/2017 2:46:22 PM

Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: BFE0238-MS1

Analyte Back Pressure Flow
 All 162.0 kPa 0.65 L/min

Mean Data: BFE0238-MS1

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2120925.3	94.06	%	0.627			0.67%
ScR 361.383	241557.1	100.5	%	0.55			0.55%
Ag 328.068†	32051.7	0.2085	mg/L	0.00148	1.042 mg/L	0.0074	0.71%
Al 308.215†	1237.2	0.8409	mg/L	0.00488	4.204 mg/L	0.0244	0.58%
As 188.979†	1474.2	0.8184	mg/L	0.00925	4.092 mg/L	0.0463	1.13%
B 249.677†	301.1	0.04062	mg/L	0.000620	0.2031 mg/L	0.00310	1.53%
Ba 233.527†	4162.8	0.8264	mg/L	0.00890	4.132 mg/L	0.0445	1.08%
Be 313.042†	88290.3	0.2004	mg/L	0.00057	1.002 mg/L	0.0029	0.29%
Ca 317.933†	146238.5	11.89	mg/L	0.052	59.44 mg/L	0.258	0.43%
Cd 228.802†	6242.6	0.2180	mg/L	0.00160	1.090 mg/L	0.0080	0.74%
Co 228.616†	7556.6	0.2072	mg/L	0.00119	1.036 mg/L	0.0060	0.57%
Cr 267.716†	1507.1	0.2135	mg/L	0.00250	1.067 mg/L	0.0125	1.17%
Cu 324.752†	42671.7	0.2066	mg/L	0.00192	1.033 mg/L	0.0096	0.93%
Fe 273.955†	1100.0	0.8460	mg/L	0.00752	4.230 mg/L	0.0376	0.89%
K 766.490†	7813.5	4.500	mg/L	0.0298	22.50 mg/L	0.149	0.66%
Mg 279.077†	113520.0	83.06	mg/L	0.212	415.3 mg/L	1.06	0.26%
Mn 257.610†	9341.1	0.2426	mg/L	0.00251	1.213 mg/L	0.0126	1.03%
Mo 202.031†	69.4	0.00331	mg/L	0.000133	0.01654 mg/L	0.000667	4.03%
Na 589.592†	2401069.4	274.9	mg/L	2.51	1374 mg/L	12.57	0.91%
Na 330.237†	6491.6	285.0	mg/L	2.59	1425 mg/L	12.95	0.91%
Ni 231.604†	997.4	0.1976	mg/L	0.00294	0.9882 mg/L	0.01471	1.49%
Pb 220.353†	6990.0	0.8024	mg/L	0.00602	4.012 mg/L	0.0301	0.75%
Sb 206.836†	14.1	0.00155	mg/L	0.001548	0.00775 mg/L	0.007741	99.93%
Se 196.026†	1096.6	0.8342	mg/L	0.00559	4.171 mg/L	0.0280	0.67%
Si 288.158†	1391.8	0.6877	mg/L	0.00417	3.439 mg/L	0.0208	0.61%
Sn 189.927†	-21.2	-0.00351	mg/L	0.001002	-0.01754 mg/L	0.005009	28.55%
Sr 421.552†	127115.9	0.2401	mg/L	0.00042	1.200 mg/L	0.0021	0.17%
Ti 334.903†	5.8	-0.00041	mg/L	0.000125	-0.00203 mg/L	0.000625	30.81%
Tl 190.801†	1549.9	0.7511	mg/L	0.00771	3.755 mg/L	0.0385	1.03%
V 292.402†	22875.5	0.2143	mg/L	0.00189	1.072 mg/L	0.0095	0.88%
Zn 206.200†	798.9	0.1988	mg/L	0.00266	0.9940 mg/L	0.01328	1.34%

Sequence No.: 25

Sample ID: SEQ-CCV7

Autosampler Location: 7

Date Collected: 5/10/2017 2:50:37 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCV7

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: SEQ-CCV7

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2223198.0	98.59	%	0.789			0.80%
ScR 361.383	242728.4	101.0	%	0.79			0.78%
Ag 328.068†	158403.2	1.030	mg/L	0.0121	1.030 mg/L	0.0121	1.17%
Al 308.215†	3044.3	2.042	mg/L	0.0266	2.042 mg/L	0.0266	1.30%
As 188.979†	3478.9	1.953	mg/L	0.0170	1.953 mg/L	0.0170	0.87%
B 249.677†	7347.2	1.004	mg/L	0.0077	1.004 mg/L	0.0077	0.77%
Ba 233.527†	5172.9	1.027	mg/L	0.0077	1.027 mg/L	0.0077	0.75%
Be 313.042†	445504.1	1.011	mg/L	0.0050	1.011 mg/L	0.0050	0.49%
Ca 317.933†	24524.7	1.994	mg/L	0.0067	1.994 mg/L	0.0067	0.33%
Cd 228.802†	29076.9	1.030	mg/L	0.0108	1.030 mg/L	0.0108	1.05%
Co 228.616†	37194.7	1.018	mg/L	0.0127	1.018 mg/L	0.0127	1.25%
Cr 267.716†	7139.0	1.041	mg/L	0.0076	1.041 mg/L	0.0076	0.73%
Cu 324.752†	209918.0	1.019	mg/L	0.0115	1.019 mg/L	0.0115	1.13%
Fe 273.955†	2618.7	2.010	mg/L	0.0171	2.010 mg/L	0.0171	0.85%
K 766.490†	35263.0	20.31	mg/L	0.112	20.31 mg/L	0.112	0.55%
Mg 279.077†	2827.2	2.078	mg/L	0.0108	2.078 mg/L	0.0108	0.52%
Mn 257.610†	37011.8	0.9611	mg/L	0.00364	0.9611 mg/L	0.00364	0.38%
Mo 202.031†	19332.4	0.9698	mg/L	0.01097	0.9698 mg/L	0.01097	1.13%
Na 589.592†	453793.7	51.95	mg/L	0.181	51.95 mg/L	0.181	0.35%
Na 330.237†	1195.6	52.33	mg/L	0.337	52.33 mg/L	0.337	0.64%
Ni 231.604†	5004.3	0.9935	mg/L	0.00754	0.9935 mg/L	0.00754	0.76%
Pb 220.353†	17047.6	1.957	mg/L	0.0205	1.957 mg/L	0.0205	1.05%
Sb 206.836†	6340.7	2.032	mg/L	0.0197	2.032 mg/L	0.0197	0.97%
Se 196.026†	2587.9	1.968	mg/L	0.0250	1.968 mg/L	0.0250	1.27%
Si 288.158†	4268.5	2.090	mg/L	0.0180	2.090 mg/L	0.0180	0.86%
Sn 189.927†	3795.0	0.9677	mg/L	0.00833	0.9677 mg/L	0.00833	0.86%
Sr 421.552†	545411.6	1.030	mg/L	0.0037	1.030 mg/L	0.0037	0.36%
Ti 334.903†	16608.2	0.9892	mg/L	0.00395	0.9892 mg/L	0.00395	0.40%
Tl 190.801†	4067.2	1.966	mg/L	0.0223	1.966 mg/L	0.0223	1.14%
V 292.402†	111889.9	1.048	mg/L	0.0099	1.048 mg/L	0.0099	0.95%
Zn 206.200†	3935.5	0.9787	mg/L	0.00865	0.9787 mg/L	0.00865	0.88%

Sequence No.: 26
 Sample ID: SEQ-CCB7
 Dilution: 1.000000X

Autosampler Location: 1
 Date Collected: 5/10/2017 2:55:41 PM
 Data Type: Original

Nebulizer Parameters: SEQ-CCB7

Analyte Back Pressure Flow
 All 164.0 kPa 0.65 L/min

Mean Data: SEQ-CCB7

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2251487.4	99.85	%	0.584			0.58%
ScR 361.383	242252.3	100.8	%	0.40			0.40%
Ag 328.068†	-1.9	-0.00001	mg/L	0.000085	-0.00001 mg/L	0.000085	682.48%
Al 308.215†	25.5	0.01740	mg/L	0.003862	0.01740 mg/L	0.003862	22.19%
As 188.979†	-1.9	-0.00109	mg/L	0.003488	-0.00109 mg/L	0.003488	320.17%
B 249.677†	6.9	0.00094	mg/L	0.001037	0.00094 mg/L	0.001037	109.89%
Ba 233.527†	2.3	0.00045	mg/L	0.000602	0.00045 mg/L	0.000602	132.46%
Be 313.042†	32.2	0.00007	mg/L	0.000009	0.00007 mg/L	0.000009	12.48%
Ca 317.933†	-4.8	-0.00039	mg/L	0.001082	-0.00039 mg/L	0.001082	274.54%
Cd 228.802†	11.0	0.00040	mg/L	0.000035	0.00040 mg/L	0.000035	8.66%
Co 228.616†	-6.4	-0.00018	mg/L	0.000147	-0.00018 mg/L	0.000147	83.71%
Cr 267.716†	-3.2	-0.00046	mg/L	0.000436	-0.00046 mg/L	0.000436	94.01%
Cu 324.752†	75.3	0.00037	mg/L	0.000079	0.00037 mg/L	0.000079	21.74%
Fe 273.955†	2.6	0.00202	mg/L	0.001870	0.00202 mg/L	0.001870	92.51%
K 766.490†	39.7	0.02286	mg/L	0.024948	0.02286 mg/L	0.024948	109.15%
Mg 279.077†	0.4	0.00029	mg/L	0.002281	0.00029 mg/L	0.002281	790.77%
Mn 257.610†	6.1	0.00016	mg/L	0.000044	0.00016 mg/L	0.000044	27.35%
Mo 202.031†	4.1	0.00021	mg/L	0.000221	0.00021 mg/L	0.000221	106.33%
Na 589.592†	525.1	0.06011	mg/L	0.004194	0.06011 mg/L	0.004194	6.98%
Na 330.237†	13.6	0.5960	mg/L	0.47902	0.5960 mg/L	0.47902	80.37%
Ni 231.604†	4.7	0.00094	mg/L	0.000540	0.00094 mg/L	0.000540	57.59%
Pb 220.353†	5.1	0.00059	mg/L	0.000090	0.00059 mg/L	0.000090	15.20%
Sb 206.836†	6.7	0.00215	mg/L	0.002100	0.00215 mg/L	0.002100	97.83%
Se 196.026†	2.5	0.00186	mg/L	0.003072	0.00186 mg/L	0.003072	164.93%
Si 288.158†	-12.5	-0.00616	mg/L	0.001171	-0.00616 mg/L	0.001171	19.00%
Sn 189.927†	0.5	0.00013	mg/L	0.000483	0.00013 mg/L	0.000483	384.63%
Sr 421.552†	23.1	0.00004	mg/L	0.000041	0.00004 mg/L	0.000041	95.18%
Ti 334.903†	-11.6	-0.00069	mg/L	0.000919	-0.00069 mg/L	0.000919	133.17%
Tl 190.801†	3.1	0.00151	mg/L	0.001784	0.00151 mg/L	0.001784	118.37%
V 292.402†	0.3	0.00000	mg/L	0.000169	0.00000 mg/L	0.000169	>999.9%
Zn 206.200†	1.5	0.00037	mg/L	0.000577	0.00037 mg/L	0.000577	154.58%

Sequence No.: 27

Autosampler Location: 354

Sample ID: 17E0012-05

Date Collected: 5/10/2017 2:59:41 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 17E0012-05

Analyte	Back Pressure	Flow
All	163.0 kPa	0.65 L/min

Mean Data: 17E0012-05

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2160782.9	95.83	%	1.247				1.30%
ScR 361.383	247300.3	102.9	%	0.68				0.66%
Ag 328.068†	3593.4	0.02338	mg/L	0.000126	0.02338	mg/L	0.000126	0.54%
Al 308.215†	7706.6	5.256	mg/L	0.0135	5.256	mg/L	0.0135	0.26%
As 188.979†	94.6	0.05752	mg/L	0.001569	0.05752	mg/L	0.001569	2.73%
B 249.677†	745.4	0.1019	mg/L	0.00112	0.1019	mg/L	0.00112	1.10%
Ba 233.527†	169.8	0.03108	mg/L	0.000758	0.03108	mg/L	0.000758	2.44%
Be 313.042†	170.0	0.00038	mg/L	0.000110	0.00038	mg/L	0.000110	29.30%
Ca 317.933†	303606.9	24.68	mg/L	0.303	24.68	mg/L	0.303	1.23%
Cd 228.802†	244.2	0.00840	mg/L	0.000321	0.00840	mg/L	0.000321	3.82%
Co 228.616†	363.2	0.00945	mg/L	0.000268	0.00945	mg/L	0.000268	2.84%
Cr 267.716†	342.7	0.04781	mg/L	0.000417	0.04781	mg/L	0.000417	0.87%
Cu 324.752†	18504.6	0.08999	mg/L	0.000433	0.08999	mg/L	0.000433	0.48%
Fe 273.955†	23751.7	18.30	mg/L	0.136	18.30	mg/L	0.136	0.75%
K 766.490†	128850.6	74.21	mg/L	0.271	74.21	mg/L	0.271	0.36%
Mg 279.077†	47116.0	34.46	mg/L	0.033	34.46	mg/L	0.033	0.09%
Mn 257.610†	35635.7	0.9250	mg/L	0.00681	0.9250	mg/L	0.00681	0.74%
Mo 202.031†	158.1	0.00759	mg/L	0.000240	0.00759	mg/L	0.000240	3.16%
Na 589.592†	1813483.2	207.6	mg/L	1.66	207.6	mg/L	1.66	0.80%
Na 330.237†	4725.7	207.5	mg/L	0.92	207.5	mg/L	0.92	0.44%
Ni 231.604†	192.2	0.03814	mg/L	0.001629	0.03814	mg/L	0.001629	4.27%
Pb 220.353†	92.2	0.01203	mg/L	0.000503	0.01203	mg/L	0.000503	4.18%
Sb 206.836†	16.8	0.00465	mg/L	0.002530	0.00465	mg/L	0.002530	54.46%
Se 196.026†	21.8	0.01570	mg/L	0.003654	0.01570	mg/L	0.003654	23.27%
Si 288.158†	1507.7	0.7393	mg/L	0.01400	0.7393	mg/L	0.01400	1.89%
Sn 189.927†	-26.6	-0.00289	mg/L	0.000570	-0.00289	mg/L	0.000570	19.70%
Sr 421.552†	216626.4	0.4091	mg/L	0.00354	0.4091	mg/L	0.00354	0.87%
Ti 334.903†	4664.9	0.2767	mg/L	0.00071	0.2767	mg/L	0.00071	0.26%
Tl 190.801†	-4.6	-0.00237	mg/L	0.000970	-0.00237	mg/L	0.000970	41.01%
V 292.402†	2755.3	0.02522	mg/L	0.000113	0.02522	mg/L	0.000113	0.45%
Zn 206.200†	1394.3	0.3467	mg/L	0.00376	0.3467	mg/L	0.00376	1.08%

Sequence No.: 28

Sample ID: 17E0012-06

Autosampler Location: 355

Date Collected: 5/10/2017 3:03:59 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 17E0012-06

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: 17E0012-06

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2134277.9	94.65	%	0.391				0.41%
ScR 361.383	240741.5	100.1	%	0.81				0.81%
Ag 328.068†	-74.5	-0.00048	mg/L	0.000131	-0.00048	mg/L	0.000131	27.29%
Al 308.215†	3138.9	2.141	mg/L	0.0280	2.141	mg/L	0.0280	1.31%
As 188.979†	105.7	0.05590	mg/L	0.003216	0.05590	mg/L	0.003216	5.75%
B 249.677†	1062.1	0.1453	mg/L	0.00182	0.1453	mg/L	0.00182	1.25%
Ba 233.527†	55.9	0.01056	mg/L	0.000662	0.01056	mg/L	0.000662	6.27%
Be 313.042†	104.7	0.00023	mg/L	0.000029	0.00023	mg/L	0.000029	12.55%
Ca 317.933†	918819.2	74.69	mg/L	0.964	74.69	mg/L	0.964	1.29%
Cd 228.802†	515.8	0.01808	mg/L	0.000272	0.01808	mg/L	0.000272	1.51%
Co 228.616†	159.1	0.00414	mg/L	0.000100	0.00414	mg/L	0.000100	2.41%
Cr 267.716†	194.5	0.02539	mg/L	0.001294	0.02539	mg/L	0.001294	5.10%
Cu 324.752†	10715.5	0.05160	mg/L	0.000045	0.05160	mg/L	0.000045	0.09%
Fe 273.955†	4764.8	3.671	mg/L	0.0023	3.671	mg/L	0.0023	0.06%
K 766.490†	95906.3	55.23	mg/L	0.239	55.23	mg/L	0.239	0.43%
Mg 279.077†	44972.9	32.90	mg/L	0.052	32.90	mg/L	0.052	0.16%
Mn 257.610†	3293.2	0.08525	mg/L	0.001446	0.08525	mg/L	0.001446	1.70%
Mo 202.031†	169.2	0.00746	mg/L	0.000116	0.00746	mg/L	0.000116	1.55%
Na 589.592†	2025672.3	231.9	mg/L	2.31	231.9	mg/L	2.31	1.00%
Na 330.237†	5304.9	232.7	mg/L	0.32	232.7	mg/L	0.32	0.14%
Ni 231.604†	68.2	0.01353	mg/L	0.000903	0.01353	mg/L	0.000903	6.68%
Pb 220.353†	35.4	0.00464	mg/L	0.000496	0.00464	mg/L	0.000496	10.67%
Sb 206.836†	7.6	0.00187	mg/L	0.001551	0.00187	mg/L	0.001551	82.72%
Se 196.026†	18.8	0.01396	mg/L	0.004228	0.01396	mg/L	0.004228	30.29%
Si 288.158†	990.9	0.4871	mg/L	0.01148	0.4871	mg/L	0.01148	2.36%
Sn 189.927†	-55.5	-0.00242	mg/L	0.000602	-0.00242	mg/L	0.000602	24.82%
Sr 421.552†	379227.2	0.7162	mg/L	0.00787	0.7162	mg/L	0.00787	1.10%
Ti 334.903†	2057.3	0.1183	mg/L	0.00090	0.1183	mg/L	0.00090	0.76%
Tl 190.801†	-0.5	-0.00032	mg/L	0.001822	-0.00032	mg/L	0.001822	578.52%
V 292.402†	1078.0	0.00999	mg/L	0.000151	0.00999	mg/L	0.000151	1.52%
Zn 206.200†	2948.7	0.7331	mg/L	0.01292	0.7331	mg/L	0.01292	1.76%

Sequence No.: 29

Sample ID: 17E0055-01

Autosampler Location: 356

Date Collected: 5/10/2017 3:08:15 PM

Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: 17E0055-01

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: 17E0055-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	2147351.5	95.23	%	0.509				0.53%
ScR 361.383	230934.5	96.07	%	0.498				0.52%
Ag 328.068†	-39.3	-0.00025	mg/L	0.000390	-0.00126	mg/L	0.001952	154.34%
Al 308.215†	206.2	0.1405	mg/L	0.00730	0.7026	mg/L	0.03652	5.20%
As 188.979†	-0.6	-0.00037	mg/L	0.002143	-0.00186	mg/L	0.010716	575.34%
B 249.677†	90.7	0.01242	mg/L	0.001878	0.06208	mg/L	0.009392	15.13%
Ba 233.527†	14.8	0.00294	mg/L	0.001195	0.01469	mg/L	0.005977	40.70%
Be 313.042†	96.5	0.00022	mg/L	0.000028	0.00108	mg/L	0.000142	13.06%
Ca 317.933†	2062.2	0.1676	mg/L	0.00106	0.8382	mg/L	0.00530	0.63%
Cd 228.802†	14.9	0.00054	mg/L	0.000177	0.00269	mg/L	0.000884	32.90%
Co 228.616†	-7.5	-0.00020	mg/L	0.000057	-0.00102	mg/L	0.000283	27.65%
Cr 267.716†	-13.7	-0.00200	mg/L	0.001372	-0.00999	mg/L	0.006860	68.70%
Cu 324.752†	367.1	0.00178	mg/L	0.000014	0.00892	mg/L	0.000072	0.81%
Fe 273.955†	71.7	0.05513	mg/L	0.000447	0.2757	mg/L	0.00223	0.81%
K 766.490†	321.4	0.1851	mg/L	0.02777	0.9256	mg/L	0.13887	15.00%
Mg 279.077†	63.0	0.04606	mg/L	0.006320	0.2303	mg/L	0.03160	13.72%
Mn 257.610†	61.8	0.00160	mg/L	0.000072	0.00801	mg/L	0.000359	4.48%
Mo 202.031†	6.1	0.00030	mg/L	0.000077	0.00151	mg/L	0.000386	25.52%
Na 589.592†	2545840.8	291.4	mg/L	0.46	1457	mg/L	2.30	0.16%
Na 330.237†	6663.4	292.6	mg/L	1.43	1463	mg/L	7.17	0.49%
Ni 231.604†	5.6	0.00112	mg/L	0.000600	0.00558	mg/L	0.003000	53.78%
Pb 220.353†	3.1	0.00039	mg/L	0.000311	0.00196	mg/L	0.001554	79.23%
Sb 206.836†	0.6	0.00027	mg/L	0.001519	0.00135	mg/L	0.007593	561.40%
Se 196.026†	4.4	0.00334	mg/L	0.005938	0.01670	mg/L	0.029689	177.73%
Si 288.158†	221.8	0.1096	mg/L	0.00311	0.5481	mg/L	0.01555	2.84%
Sn 189.927†	-3.4	-0.00083	mg/L	0.000345	-0.00415	mg/L	0.001723	41.50%
Sr 421.552†	6669.0	0.01259	mg/L	0.000119	0.06297	mg/L	0.000595	0.95%
Ti 334.903†	-3.9	-0.00024	mg/L	0.001488	-0.00120	mg/L	0.007438	621.21%
Tl 190.801†	0.1	0.00001	mg/L	0.001224	0.00005	mg/L	0.006118	>999.9%
V 292.402†	941.2	0.00876	mg/L	0.000168	0.04381	mg/L	0.000842	1.92%
Zn 206.200†	22.1	0.00552	mg/L	0.000686	0.02759	mg/L	0.003432	12.44%

Sequence No.: 30
 Sample ID: 17E0074-01

Autosampler Location: 357
 Date Collected: 5/10/2017 3:12:30 PM
 Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: 17E0074-01

Analyte Back Pressure Flow
 All 164.0 kPa 0.65 L/min

Mean Data: 17E0074-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2118939.7	93.97	%	0.176			0.19%
ScR 361.383	237692.6	98.88	%	1.098			1.11%
Ag 328.068†	2.1	0.00001	mg/L	0.000457	0.00007 mg/L	0.002286	>999.9%
Al 308.215†	25.0	0.01701	mg/L	0.003161	0.08507 mg/L	0.015807	18.58%
As 188.979†	22.5	0.00973	mg/L	0.001961	0.04864 mg/L	0.009803	20.15%
B 249.677†	372.3	0.05093	mg/L	0.001025	0.2546 mg/L	0.00513	2.01%
Ba 233.527†	579.0	0.1150	mg/L	0.00125	0.5748 mg/L	0.00626	1.09%
Be 313.042†	100.7	0.00023	mg/L	0.000032	0.00114 mg/L	0.000159	13.94%
Ca 317.933†	442389.9	35.96	mg/L	0.140	179.8 mg/L	0.70	0.39%
Cd 228.802†	192.3	0.00681	mg/L	0.000161	0.03407 mg/L	0.000805	2.36%
Co 228.616†	9.4	0.00024	mg/L	0.000258	0.00122 mg/L	0.001292	106.06%
Cr 267.716†	25.4	0.00285	mg/L	0.001254	0.01427 mg/L	0.006269	43.92%
Cu 324.752†	1615.7	0.00781	mg/L	0.000106	0.03905 mg/L	0.000528	1.35%
Fe 273.955†	78.9	0.06075	mg/L	0.002889	0.3038 mg/L	0.01444	4.75%
K 766.490†	988.2	0.5691	mg/L	0.00841	2.846 mg/L	0.0420	1.48%
Mg 279.077†	5911.3	4.332	mg/L	0.0319	21.66 mg/L	0.160	0.74%
Mn 257.610†	131644.1	3.417	mg/L	0.0047	17.09 mg/L	0.023	0.14%
Mo 202.031†	51.1	0.00207	mg/L	0.000206	0.01033 mg/L	0.001030	9.97%
Na 589.592†	2382156.6	272.7	mg/L	1.71	1364 mg/L	8.54	0.63%
Na 330.237†	6440.9	281.2	mg/L	2.07	1406 mg/L	10.36	0.74%
Ni 231.604†	30.4	0.00604	mg/L	0.000776	0.03020 mg/L	0.003881	12.85%
Pb 220.353†	1.5	0.00017	mg/L	0.000898	0.00085 mg/L	0.004489	525.22%
Sb 206.836†	6.4	0.00186	mg/L	0.000483	0.00930 mg/L	0.002413	25.93%
Se 196.026†	-3.4	-0.00261	mg/L	0.008266	-0.01307 mg/L	0.041329	316.21%
Si 288.158†	11178.5	5.524	mg/L	0.0139	27.62 mg/L	0.069	0.25%
Sn 189.927†	-50.0	-0.00709	mg/L	0.000620	-0.03545 mg/L	0.003101	8.75%
Sr 421.552†	158411.6	0.2992	mg/L	0.00046	1.496 mg/L	0.0023	0.16%
Ti 334.903†	21.7	-0.00082	mg/L	0.000598	-0.00408 mg/L	0.002990	73.31%
Tl 190.801†	4.4	0.00212	mg/L	0.001142	0.01058 mg/L	0.005708	53.97%
V 292.402†	-45.5	0.00009	mg/L	0.000183	0.00043 mg/L	0.000916	212.22%
Zn 206.200†	16550.3	4.115	mg/L	0.0317	20.58 mg/L	0.159	0.77%

Sequence No.: 31

Autosampler Location: 358

Sample ID: 17E0077-03

Date Collected: 5/10/2017 3:16:45 PM

Data Type: Original

Dilution: 5.000000X

Nebulizer Parameters: 17E0077-03

Analyte	Back Pressure	Flow
All	164.0 kPa	0.65 L/min

Mean Data: 17E0077-03

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2159383.2	95.76	%	0.197			0.21%
ScR 361.383	231679.7	96.38	%	0.972			1.01%
Ag 328.068†	-44.0	-0.00029	mg/L	0.000280	-0.00143	0.001401	97.88%
Al 308.215†	97.1	0.06624	mg/L	0.005373	0.3312	0.02686	8.11%
As 188.979†	1.0	0.00017	mg/L	0.001450	0.00085	0.007250	848.35%
B 249.677†	163.7	0.02239	mg/L	0.000612	0.1120	0.00306	2.73%
Ba 233.527†	326.9	0.06492	mg/L	0.000613	0.3246	0.00306	0.94%
Be 313.042†	117.3	0.00027	mg/L	0.000018	0.00133	0.000089	6.68%
Ca 317.933†	62460.8	5.077	mg/L	0.0900	25.39	0.450	1.77%
Cd 228.802†	13.7	0.00049	mg/L	0.000167	0.00245	0.000837	34.20%
Co 228.616†	138.6	0.00379	mg/L	0.000195	0.01897	0.000975	5.14%
Cr 267.716†	-3.1	-0.00060	mg/L	0.001417	-0.00301	0.007086	235.74%
Cu 324.752†	607.6	0.00294	mg/L	0.000107	0.01469	0.000537	3.65%
Fe 273.955†	30.5	0.02346	mg/L	0.002376	0.1173	0.01188	10.13%
K 766.490†	942.4	0.5427	mg/L	0.01745	2.714	0.0873	3.22%
Mg 279.077†	1970.1	1.442	mg/L	0.0374	7.209	0.1872	2.60%
Mn 257.610†	8376.3	0.2174	mg/L	0.00401	1.087	0.0201	1.85%
Mo 202.031†	17.8	0.00082	mg/L	0.000057	0.00412	0.000287	6.97%
Na 589.592†	2465206.9	282.2	mg/L	0.76	1411	3.78	0.27%
Na 330.237†	6496.6	285.3	mg/L	4.15	1427	20.76	1.46%
Ni 231.604†	17.6	0.00349	mg/L	0.000789	0.01743	0.003946	22.65%
Pb 220.353†	2.9	0.00034	mg/L	0.001120	0.00171	0.005602	328.44%
Sb 206.836†	0.3	0.00008	mg/L	0.001500	0.00039	0.007499	>999.9%
Se 196.026†	-2.7	-0.00203	mg/L	0.004212	-0.01017	0.021058	207.01%
Si 288.158†	994.8	0.4915	mg/L	0.00688	2.458	0.0344	1.40%
Sn 189.927†	-11.8	-0.00222	mg/L	0.000825	-0.01110	0.004125	37.17%
Sr 421.552†	34233.3	0.06465	mg/L	0.001067	0.3232	0.00533	1.65%
Ti 334.903†	16.1	0.00066	mg/L	0.000165	0.00331	0.000825	24.91%
Tl 190.801†	-0.2	-0.00013	mg/L	0.001929	-0.00065	0.009644	>999.9%
V 292.402†	28.9	0.00030	mg/L	0.000152	0.00149	0.000761	51.19%
Zn 206.200†	50.8	0.01272	mg/L	0.000734	0.06361	0.003672	5.77%

Sequence No.: 32

Autosampler Location: 359

Sample ID: 17E0124-03

Date Collected: 5/10/2017 3:21:00 PM

Data Type: Original

Dilution: 20.000000X

Nebulizer Parameters: 17E0124-03

Analyte Back Pressure Flow
 All 164.0 kPa 0.65 L/min

Mean Data: 17E0124-03

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc. Units	Std.Dev.	RSD
ScA 357.253	2284515.4	101.3	%	0.65			0.64%
ScR 361.383	246450.5	102.5	%	0.28			0.27%
Ag 328.068†	127.7	0.00083	mg/L	0.000171	0.01664 mg/L	0.003413	20.51%
Al 308.215†	227.0	0.1492	mg/L	0.00749	2.983 mg/L	0.1498	5.02%
As 188.979†	6.3	0.00007	mg/L	0.000687	0.00148 mg/L	0.013745	930.55%
B 249.677†	12.3	0.00167	mg/L	0.001096	0.03341 mg/L	0.021926	65.63%
Ba 233.527†	60.0	0.00225	mg/L	0.000484	0.04498 mg/L	0.009676	21.51%
Be 313.042†	74.4	0.00017	mg/L	0.000040	0.00336 mg/L	0.000794	23.65%
Ca 317.933†	14081.6	1.145	mg/L	0.0025	22.89 mg/L	0.050	0.22%
Cd 228.802†	-56.7	0.00072	mg/L	0.000111	0.01434 mg/L	0.002212	15.42%
Co 228.616†	1413.2	0.03837	mg/L	0.000417	0.7675 mg/L	0.00834	1.09%
Cr 267.716†	9331.0	1.363	mg/L	0.0032	27.26 mg/L	0.064	0.23%
Cu 324.752†	2686870.8	13.05	mg/L	0.004	261.0 mg/L	0.09	0.03%
Fe 273.955†	84507.5	65.10	mg/L	0.241	1302 mg/L	4.83	0.37%
K 766.490†	1553.6	0.8947	mg/L	0.02808	17.89 mg/L	0.562	3.14%
Mg 279.077†	621.0	0.4190	mg/L	0.00757	8.379 mg/L	0.1513	1.81%
Mn 257.610†	10476.0	0.2722	mg/L	0.00083	5.445 mg/L	0.0167	0.31%
Mo 202.031†	5944.6	0.2982	mg/L	0.00308	5.963 mg/L	0.0617	1.03%
Na 589.592†	12957.4	1.483	mg/L	0.0186	29.67 mg/L	0.371	1.25%
Na 330.237†	33.2	1.423	mg/L	0.1014	28.46 mg/L	2.028	7.13%
Ni 231.604†	14333.7	2.844	mg/L	0.0090	56.89 mg/L	0.179	0.32%
Pb 220.353†	234.9	0.01271	mg/L	0.000426	0.2541 mg/L	0.00851	3.35%
Sb 206.836†	93.0	0.00651	mg/L	0.001960	0.1302 mg/L	0.03919	30.11%
Se 196.026†	3.5	0.00259	mg/L	0.001387	0.05174 mg/L	0.027730	53.59%
Si 288.158†	6058.5	2.994	mg/L	0.6902	59.88 mg/L	13.805	23.05%
Sn 189.927†	483.4	0.1233	mg/L	0.00193	2.466 mg/L	0.0386	1.57%
Sr 421.552†	2239.8	0.00423	mg/L	0.000032	0.08460 mg/L	0.000635	0.75%
Ti 334.903†	297.1	0.01706	mg/L	0.000295	0.3412 mg/L	0.00591	1.73%
Tl 190.801†	-12.5	-0.00632	mg/L	0.002881	-0.1264 mg/L	0.05761	45.57%
V 292.402†	372.5	0.00790	mg/L	0.000156	0.1581 mg/L	0.00312	1.98%
Zn 206.200†	377.8	0.09456	mg/L	0.000748	1.891 mg/L	0.0150	0.79%

Sequence No.: 33
 Sample ID: SEQ-IBL1
 Dilution: 1.000000X

Autosampler Location: 9
 Date Collected: 5/10/2017 3:27:43 PM
 Data Type: Original

Nebulizer Parameters: SEQ-IBL1

Analyte Back Pressure Flow
 All 163.0 kPa 0.65 L/min

Mean Data: SEQ-IBL1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2295997.3	101.8	%	0.43			0.43%
ScR 361.383	247954.5	103.1	%	0.62			0.60%
Ag 328.068†	-18.0	-0.00012	mg/L	0.000154	-0.00012 mg/L	0.000154	131.35%
Al 308.215†	11.9	0.00809	mg/L	0.004286	0.00809 mg/L	0.004286	52.95%
As 188.979†	-0.3	-0.00016	mg/L	0.002575	-0.00016 mg/L	0.002575	>999.9%
B 249.677†	-16.7	-0.00229	mg/L	0.000776	-0.00229 mg/L	0.000776	33.86%
Ba 233.527†	-3.3	-0.00065	mg/L	0.000537	-0.00065 mg/L	0.000537	82.01%
Be 313.042†	16.6	0.00004	mg/L	0.000029	0.00004 mg/L	0.000029	78.19%
Ca 317.933†	-48.3	-0.00392	mg/L	0.000753	-0.00392 mg/L	0.000753	19.19%
Cd 228.802†	11.6	0.00042	mg/L	0.000181	0.00042 mg/L	0.000181	43.30%
Co 228.616†	-3.1	-0.00008	mg/L	0.000130	-0.00008 mg/L	0.000130	152.95%
Cr 267.716†	5.5	0.00081	mg/L	0.000493	0.00081 mg/L	0.000493	61.08%
Cu 324.752†	168.5	0.00082	mg/L	0.000154	0.00082 mg/L	0.000154	18.82%
Fe 273.955†	7.5	0.00580	mg/L	0.002944	0.00580 mg/L	0.002944	50.74%
K 766.490†	6.7	0.00387	mg/L	0.009670	0.00387 mg/L	0.009670	249.65%
Mg 279.077†	-6.3	-0.00464	mg/L	0.004463	-0.00464 mg/L	0.004463	96.11%
Mn 257.610†	7.6	0.00020	mg/L	0.000135	0.00020 mg/L	0.000135	68.16%
Mo 202.031†	5.3	0.00026	mg/L	0.000281	0.00026 mg/L	0.000281	106.40%
Na 589.592†	580.4	0.06644	mg/L	0.007063	0.06644 mg/L	0.007063	10.63%
Na 330.237†	11.2	0.4912	mg/L	0.31218	0.4912 mg/L	0.31218	63.55%
Ni 231.604†	1.5	0.00029	mg/L	0.002237	0.00029 mg/L	0.002237	759.28%
Pb 220.353†	3.0	0.00034	mg/L	0.000676	0.00034 mg/L	0.000676	196.30%
Sb 206.836†	1.6	0.00048	mg/L	0.002006	0.00048 mg/L	0.002006	416.89%
Se 196.026†	-2.5	-0.00192	mg/L	0.002627	-0.00192 mg/L	0.002627	136.99%
Si 288.158†	4.7	0.00231	mg/L	0.002388	0.00231 mg/L	0.002388	103.38%
Sn 189.927†	-1.5	-0.00039	mg/L	0.000720	-0.00039 mg/L	0.000720	184.13%
Sr 421.552†	23.6	0.00004	mg/L	0.000019	0.00004 mg/L	0.000019	43.29%
Ti 334.903†	1.3	0.00008	mg/L	0.001757	0.00008 mg/L	0.001757	>999.9%
Tl 190.801†	1.7	0.00082	mg/L	0.001575	0.00082 mg/L	0.001575	191.70%
V 292.402†	5.6	0.00006	mg/L	0.000124	0.00006 mg/L	0.000124	223.58%
Zn 206.200†	2.9	0.00073	mg/L	0.000771	0.00073 mg/L	0.000771	105.36%

Sequence No.: 34
 Sample ID: SEQ-CCV8

Autosampler Location: 7
 Date Collected: 5/10/2017 3:32:47 PM
 Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCV8

Analyte Back Pressure Flow
 All 162.0 kPa 0.65 L/min

Mean Data: SEQ-CCV8

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2265341.0	100.5	%	0.81			0.80%
ScR 361.383	248121.2	103.2	%	0.32			0.31%
Ag 328.068†	159173.8	1.035	mg/L	0.0035	1.035 mg/L	0.0035	0.33%
Al 308.215†	2961.9	1.985	mg/L	0.0268	1.985 mg/L	0.0268	1.35%
As 188.979†	3436.2	1.929	mg/L	0.0109	1.929 mg/L	0.0109	0.56%
B 249.677†	7161.6	0.9782	mg/L	0.01446	0.9782 mg/L	0.01446	1.48%
Ba 233.527†	5207.4	1.034	mg/L	0.0158	1.034 mg/L	0.0158	1.53%
Be 313.042†	431272.0	0.9788	mg/L	0.00667	0.9788 mg/L	0.00667	0.68%
Ca 317.933†	24165.8	1.964	mg/L	0.0099	1.964 mg/L	0.0099	0.50%
Cd 228.802†	28447.3	1.007	mg/L	0.0043	1.007 mg/L	0.0043	0.43%
Co 228.616†	37390.8	1.024	mg/L	0.0070	1.024 mg/L	0.0070	0.69%
Cr 267.716†	6979.3	1.017	mg/L	0.0175	1.017 mg/L	0.0175	1.72%
Cu 324.752†	208424.4	1.012	mg/L	0.0042	1.012 mg/L	0.0042	0.42%
Fe 273.955†	2496.8	1.916	mg/L	0.0332	1.916 mg/L	0.0332	1.73%
K 766.490†	34691.1	19.98	mg/L	0.040	19.98 mg/L	0.040	0.20%
Mg 279.077†	2767.7	2.034	mg/L	0.0383	2.034 mg/L	0.0383	1.88%
Mn 257.610†	35702.6	0.9271	mg/L	0.00655	0.9271 mg/L	0.00655	0.71%
Mo 202.031†	19246.8	0.9655	mg/L	0.00569	0.9655 mg/L	0.00569	0.59%
Na 589.592†	445862.1	51.04	mg/L	0.033	51.04 mg/L	0.033	0.06%
Na 330.237†	1163.0	50.90	mg/L	0.601	50.90 mg/L	0.601	1.18%
Ni 231.604†	4940.5	0.9809	mg/L	0.01755	0.9809 mg/L	0.01755	1.79%
Pb 220.353†	17035.5	1.956	mg/L	0.0087	1.956 mg/L	0.0087	0.45%
Sb 206.836†	6252.2	2.004	mg/L	0.0167	2.004 mg/L	0.0167	0.83%
Se 196.026†	2539.8	1.931	mg/L	0.0154	1.931 mg/L	0.0154	0.80%
Si 288.158†	4162.6	2.038	mg/L	0.0308	2.038 mg/L	0.0308	1.51%
Sn 189.927†	3717.0	0.9479	mg/L	0.00180	0.9479 mg/L	0.00180	0.19%
Sr 421.552†	534925.6	1.010	mg/L	0.0019	1.010 mg/L	0.0019	0.18%
Ti 334.903†	16243.7	0.9675	mg/L	0.00294	0.9675 mg/L	0.00294	0.30%
Tl 190.801†	4054.5	1.960	mg/L	0.0190	1.960 mg/L	0.0190	0.97%
V 292.402†	111973.3	1.049	mg/L	0.0008	1.049 mg/L	0.0008	0.08%
Zn 206.200†	3864.0	0.9609	mg/L	0.02001	0.9609 mg/L	0.02001	2.08%

Sequence No.: 35
 Sample ID: SEQ-CCB8
 Dilution: 1.000000X

Autosampler Location: 1
 Date Collected: 5/10/2017 3:37:51 PM
 Data Type: Original

Nebulizer Parameters: SEQ-CCB8

Analyte Back Pressure Flow
 All 162.0 kPa 0.65 L/min

Mean Data: SEQ-CCB8

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	2279927.4	101.1	%	0.26			0.26%
ScR 361.383	244986.4	101.9	%	0.56			0.55%
Ag 328.068†	18.4	0.00012	mg/L	0.000168	0.00012 mg/L	0.000168	140.16%
Al 308.215†	18.7	0.01274	mg/L	0.002183	0.01274 mg/L	0.002183	17.13%
As 188.979†	-1.0	-0.00055	mg/L	0.003048	-0.00055 mg/L	0.003048	549.94%
B 249.677†	-1.3	-0.00018	mg/L	0.000327	-0.00018 mg/L	0.000327	185.39%
Ba 233.527†	1.3	0.00026	mg/L	0.000374	0.00026 mg/L	0.000374	144.51%
Be 313.042†	69.8	0.00016	mg/L	0.000030	0.00016 mg/L	0.000030	18.72%
Ca 317.933†	-13.3	-0.00108	mg/L	0.000601	-0.00108 mg/L	0.000601	55.48%
Cd 228.802†	17.4	0.00063	mg/L	0.000125	0.00063 mg/L	0.000125	19.85%
Co 228.616†	-6.0	-0.00016	mg/L	0.000182	-0.00016 mg/L	0.000182	110.51%
Cr 267.716†	1.0	0.00015	mg/L	0.000439	0.00015 mg/L	0.000439	294.11%
Cu 324.752†	206.8	0.00100	mg/L	0.000154	0.00100 mg/L	0.000154	15.37%
Fe 273.955†	0.5	0.00039	mg/L	0.002772	0.00039 mg/L	0.002772	708.00%
K 766.490†	14.7	0.00848	mg/L	0.007936	0.00848 mg/L	0.007936	93.62%
Mg 279.077†	-0.5	-0.00038	mg/L	0.000448	-0.00038 mg/L	0.000448	117.72%
Mn 257.610†	4.8	0.00012	mg/L	0.000089	0.00012 mg/L	0.000089	72.00%
Mo 202.031†	3.5	0.00018	mg/L	0.000343	0.00018 mg/L	0.000343	194.68%
Na 589.592†	467.6	0.05353	mg/L	0.002371	0.05353 mg/L	0.002371	4.43%
Na 330.237†	23.7	1.039	mg/L	0.4068	1.039 mg/L	0.4068	39.17%
Ni 231.604†	2.6	0.00051	mg/L	0.001483	0.00051 mg/L	0.001483	290.78%
Pb 220.353†	0.6	0.00007	mg/L	0.000290	0.00007 mg/L	0.000290	390.97%
Sb 206.836†	-4.0	-0.00129	mg/L	0.001950	-0.00129 mg/L	0.001950	151.64%
Se 196.026†	-1.0	-0.00077	mg/L	0.001110	-0.00077 mg/L	0.001110	143.34%
Si 288.158†	-11.0	-0.00543	mg/L	0.003156	-0.00543 mg/L	0.003156	58.07%
Sn 189.927†	0.6	0.00014	mg/L	0.000714	0.00014 mg/L	0.000714	506.60%
Sr 421.552†	48.0	0.00009	mg/L	0.000026	0.00009 mg/L	0.000026	28.63%
Ti 334.903†	-7.9	-0.00047	mg/L	0.000890	-0.00047 mg/L	0.000890	187.72%
Tl 190.801†	5.8	0.00283	mg/L	0.001966	0.00283 mg/L	0.001966	69.45%
V 292.402†	22.5	0.00021	mg/L	0.000176	0.00021 mg/L	0.000176	83.16%
Zn 206.200†	4.9	0.00121	mg/L	0.000308	0.00121 mg/L	0.000308	25.51%

Sequence No.: 36

Autosampler Location: 9

Sample ID: RINSE

Date Collected: 5/10/2017 3:41:51 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: RINSE

Analyte Back Pressure Flow
 All 161.0 kPa 0.65 L/min

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	982069.0	43.55	%	51.425			118.08%
ScR 361.383	247930.5	103.1	%	0.59			0.57%
Ag 328.068†	-1959.9	-0.01274	mg/L	0.020321	-0.01274	0.020321	159.55%
Al 308.215†	3.7	0.00137	mg/L	0.004795	0.00137	0.004795	349.59%
As 188.979†	-6.7	-0.00391	mg/L	0.003648	-0.00391	0.003648	93.28%
B 249.677†	-7.9	-0.00096	mg/L	0.000735	-0.00096	0.000735	76.17%
Ba 233.527†	0.3	0.00004	mg/L	0.000322	0.00004	0.000322	782.22%
Be 313.042†	30.4	0.00006	mg/L	0.000026	0.00006	0.000026	41.54%
Ca 317.933†	-33.1	-0.00269	mg/L	0.001071	-0.00269	0.001071	39.75%
Cd 228.802†	1137.3	0.04086	mg/L	0.069371	0.04086	0.069371	169.78%
Co 228.616†	-829.3	-0.02274	mg/L	0.036221	-0.02274	0.036221	159.27%
Cr 267.716†	-4.3	-0.00063	mg/L	0.000880	-0.00063	0.000880	139.35%
Cu 324.752†	26522.9	0.1288	mg/L	0.20497	0.1288	0.20497	159.15%
Fe 273.955†	4.2	0.00298	mg/L	0.002706	0.00298	0.002706	90.70%
K 766.490†	27.4	0.01575	mg/L	0.007266	0.01575	0.007266	46.12%
Mg 279.077†	-3.1	-0.00204	mg/L	0.004470	-0.00204	0.004470	218.77%
Mn 257.610†	5.3	0.00016	mg/L	0.000207	0.00016	0.000207	125.42%
Mo 202.031†	789.3	0.03960	mg/L	0.062284	0.03960	0.062284	157.29%
Na 589.592†	341.1	0.03905	mg/L	0.003358	0.03905	0.003358	8.60%
Na 330.237†	-1.5	-0.06630	mg/L	0.351233	-0.06630	0.351233	529.79%
Ni 231.604†	-5.0	-0.00067	mg/L	0.000176	-0.00067	0.000176	26.38%
Pb 220.353†	1093.9	0.1253	mg/L	0.20099	0.1253	0.20099	160.34%
Sb 206.836†	1233.7	0.3959	mg/L	0.63477	0.3959	0.63477	160.32%
Se 196.026†	-133.4	-0.1015	mg/L	0.17178	-0.1015	0.17178	169.19%
Si 288.158†	-11.2	-0.00547	mg/L	0.003429	-0.00547	0.003429	62.67%
Sn 189.927†	-84.6	-0.02139	mg/L	0.037443	-0.02139	0.037443	175.08%
Sr 421.552†	22.9	0.00004	mg/L	0.000028	0.00004	0.000028	64.63%
Ti 334.903†	-8.2	-0.00053	mg/L	0.001648	-0.00053	0.001648	313.38%
Tl 190.801†	-421.8	-0.2049	mg/L	0.33357	-0.2049	0.33357	162.79%
V 292.402†	2959.6	0.02760	mg/L	0.044047	0.02760	0.044047	159.59%
Zn 206.200†	3.0	0.00075	mg/L	0.000342	0.00075	0.000342	45.57%

Sequence No.: 37
 Sample ID: RINSE2

Autosampler Location: 9
 Date Collected: 5/10/2017 3:45:51 PM
 Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: RINSE2

Analyte	Back Pressure	Flow
All	161.0 kPa	0.65 L/min

Mean Data: RINSE2

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	15233.4	0.6756	%	0.00459			0.68%
ScR 361.383	-145.9	-0.06069	%	0.008780			14.47%
Ag 328.068†	-16367.7	-0.1064	mg/L	0.02928	-0.1064 mg/L	0.02928	27.53%
Al 308.215†	-352183.2	-240.3	mg/L	59.32	-240.3 mg/L	59.32	24.69%
As 188.979†	-1121.2	-0.6025	mg/L	0.13560	-0.6025 mg/L	0.13560	22.51%
B 249.677†	-127756.6	-17.49	mg/L	5.639	-17.49 mg/L	5.639	32.24%
Ba 233.527†	-50434.7	-10.01	mg/L	2.947	-10.01 mg/L	2.947	29.44%
Be 313.042†	-1432777.1	-3.253	mg/L	0.5466	-3.253 mg/L	0.5466	16.80%
Ca 317.933†	-258352.6	-21.00	mg/L	3.619	-21.00 mg/L	3.619	17.23%
Cd 228.802†	11019.3	0.4064	mg/L	0.01729	0.4064 mg/L	0.01729	4.25%
Co 228.616†	-7082.3	-0.2020	mg/L	0.01439	-0.2020 mg/L	0.01439	7.13%
Cr 267.716†	320941.7	46.81	mg/L	7.527	46.81 mg/L	7.527	16.08%
Cu 324.752†	234664.0	1.142	mg/L	0.0127	1.142 mg/L	0.0127	1.11%
Fe 273.955†	-50740.1	-39.02	mg/L	6.347	-39.02 mg/L	6.347	16.27%
K 766.490†	-1187403.5	-683.8	mg/L	57.69	-683.8 mg/L	57.69	8.44%
Mg 279.077†	-158606.7	-116.0	mg/L	16.22	-116.0 mg/L	16.22	13.98%
Mn 257.610†	-413243.2	-10.72	mg/L	1.352	-10.72 mg/L	1.352	12.61%
Mo 202.031†	6504.2	0.3242	mg/L	0.02802	0.3242 mg/L	0.02802	8.64%
Na 589.592†	-281310.7	-32.20	mg/L	12.025	-32.20 mg/L	12.025	37.34%
Na 330.237†	459190.7	20170	mg/L	3408.67	20170 mg/L	3408.67	16.90%
Ni 231.604†	31157.6	6.186	mg/L	1.7148	6.186 mg/L	1.7148	27.72%
Pb 220.353†	8472.9	0.9887	mg/L	0.15603	0.9887 mg/L	0.15603	15.78%
Sb 206.836†	9796.0	2.299	mg/L	0.2613	2.299 mg/L	0.2613	11.37%
Se 196.026†	-2270.2	-1.688	mg/L	0.3670	-1.688 mg/L	0.3670	21.74%
Si 288.158†	-86277.3	-42.72	mg/L	4.919	-42.72 mg/L	4.919	11.51%
Sn 189.927†	-670.8	-0.1728	mg/L	0.07292	-0.1728 mg/L	0.07292	42.20%
Sr 421.552†	-249780.7	-0.4717	mg/L	0.13631	-0.4717 mg/L	0.13631	28.90%
Ti 334.903†	71256.3	4.240	mg/L	2.0511	4.240 mg/L	2.0511	48.38%
Tl 190.801†	-3789.2	-1.841	mg/L	0.1930	-1.841 mg/L	0.1930	10.48%
V 292.402†	24061.9	0.4513	mg/L	0.03257	0.4513 mg/L	0.03257	7.22%
Zn 206.200†	-14424.0	-3.588	mg/L	1.5225	-3.588 mg/L	1.5225	42.43%

Sequence No.: 38
 Sample ID: RINSE3

Autosampler Location: 9
 Date Collected: 5/10/2017 3:49:35 PM
 Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: RINSE3

Analyte Back Pressure Flow
 All 161.0 kPa 0.65 L/min

Mean Data: RINSE3

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	15105.5	0.6699	%	0.00124			0.19%
ScR 361.383	-183.8	-0.07646	%	0.003368			4.40%
Ag 328.068†	-11259.4	-0.07315	mg/L	0.042935	-0.07315 mg/L	0.042935	58.69%
Al 308.215†	-243896.1	-166.4	mg/L	4.64	-166.4 mg/L	4.64	2.79%
As 188.979†	-162.3	-0.06086	mg/L	0.325827	-0.06086 mg/L	0.325827	535.40%
B 249.677†	-96070.8	-13.15	mg/L	1.575	-13.15 mg/L	1.575	11.98%
Ba 233.527†	-46588.3	-9.247	mg/L	1.5726	-9.247 mg/L	1.5726	17.01%
Be 313.042†	-1114337.7	-2.530	mg/L	0.1284	-2.530 mg/L	0.1284	5.07%
Ca 317.933†	-187370.5	-15.23	mg/L	1.694	-15.23 mg/L	1.694	11.12%
Cd 228.802†	10890.8	0.3973	mg/L	0.01288	0.3973 mg/L	0.01288	3.24%
Co 228.616†	-7312.1	-0.2074	mg/L	0.03267	-0.2074 mg/L	0.03267	15.75%
Cr 267.716†	244255.9	35.63	mg/L	1.917	35.63 mg/L	1.917	5.38%
Cu 324.752†	233215.6	1.134	mg/L	0.0078	1.134 mg/L	0.0078	0.69%
Fe 273.955†	-42251.8	-32.50	mg/L	2.205	-32.50 mg/L	2.205	6.78%
K 766.490†	-937136.7	-539.7	mg/L	27.97	-539.7 mg/L	27.97	5.18%
Mg 279.077†	-119138.4	-87.12	mg/L	7.332	-87.12 mg/L	7.332	8.42%
Mn 257.610†	-323215.9	-8.388	mg/L	0.4107	-8.388 mg/L	0.4107	4.90%
Mo 202.031†	6385.0	0.3187	mg/L	0.00660	0.3187 mg/L	0.00660	2.07%
Na 589.592†	-130256.7	-14.91	mg/L	1.545	-14.91 mg/L	1.545	10.36%
Na 330.237†	342344.0	15040	mg/L	433.18	15040 mg/L	433.18	2.88%
Ni 231.604†	28742.6	5.707	mg/L	1.4550	5.707 mg/L	1.4550	25.50%
Pb 220.353†	7854.0	0.9180	mg/L	0.13142	0.9180 mg/L	0.13142	14.32%
Sb 206.836†	9834.7	2.513	mg/L	0.0851	2.513 mg/L	0.0851	3.38%
Se 196.026†	-2023.1	-1.512	mg/L	0.3370	-1.512 mg/L	0.3370	22.29%
Si 288.158†	-56517.4	-28.01	mg/L	6.163	-28.01 mg/L	6.163	22.01%
Sn 189.927†	-627.1	-0.1608	mg/L	0.07494	-0.1608 mg/L	0.07494	46.61%
Sr 421.552†	-157951.2	-0.2983	mg/L	0.11560	-0.2983 mg/L	0.11560	38.75%
Ti 334.903†	63545.6	3.782	mg/L	1.3609	3.782 mg/L	1.3609	35.98%
Tl 190.801†	-4115.1	-1.999	mg/L	0.3656	-1.999 mg/L	0.3656	18.29%
V 292.402†	22590.2	0.3831	mg/L	0.06936	0.3831 mg/L	0.06936	18.10%
Zn 206.200†	-13041.8	-3.243	mg/L	0.3213	-3.243 mg/L	0.3213	9.91%

Sequence No.: 39
 Sample ID: RINSE4

Autosampler Location: 9
 Date Collected: 5/10/2017 3:53:19 PM
 Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: RINSE4

Analyte Back Pressure Flow
 All 161.0 kPa 0.65 L/min

Mean Data: RINSE4

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	14961.8	0.6635 %	%	0.00173			0.26%
ScR 361.383	-184.4	-0.07670 %	%	0.005250			6.84%
Ag 328.068†	-11773.5	-0.07649 mg/L	mg/L	0.051542	-0.07649 mg/L	0.051542	67.38%
Al 308.215†	-252051.1	-172.0 mg/L	mg/L	23.92	-172.0 mg/L	23.92	13.91%
As 188.979†	-815.7	-0.4064 mg/L	mg/L	0.09459	-0.4064 mg/L	0.09459	23.27%
B 249.677†	-88122.0	-12.07 mg/L	mg/L	0.865	-12.07 mg/L	0.865	7.17%
Ba 233.527†	-41405.3	-8.217 mg/L	mg/L	1.3269	-8.217 mg/L	1.3269	16.15%
Be 313.042†	-1146963.6	-2.604 mg/L	mg/L	0.1784	-2.604 mg/L	0.1784	6.85%
Ca 317.933†	-200967.1	-16.34 mg/L	mg/L	3.183	-16.34 mg/L	3.183	19.48%
Cd 228.802†	10725.1	0.3935 mg/L	mg/L	0.01509	0.3935 mg/L	0.01509	3.83%
Co 228.616†	-7609.5	-0.2171 mg/L	mg/L	0.03013	-0.2171 mg/L	0.03013	13.88%
Cr 267.716†	253421.8	36.96 mg/L	mg/L	1.792	36.96 mg/L	1.792	4.85%
Cu 324.752†	233915.9	1.137 mg/L	mg/L	0.0046	1.137 mg/L	0.0046	0.40%
Fe 273.955†	-42683.5	-32.83 mg/L	mg/L	0.739	-32.83 mg/L	0.739	2.25%
K 766.490†	-921916.2	-530.9 mg/L	mg/L	39.38	-530.9 mg/L	39.38	7.42%
Mg 279.077†	-127698.0	-93.38 mg/L	mg/L	15.318	-93.38 mg/L	15.318	16.40%
Mn 257.610†	-323226.2	-8.389 mg/L	mg/L	0.5313	-8.389 mg/L	0.5313	6.33%
Mo 202.031†	7317.7	0.3655 mg/L	mg/L	0.03663	0.3655 mg/L	0.03663	10.02%
Na 589.592†	-109237.9	-12.51 mg/L	mg/L	3.374	-12.51 mg/L	3.374	26.98%
Na 330.237†	341502.8	15000 mg/L	mg/L	497.16	15000 mg/L	497.16	3.31%
Ni 231.604†	25741.5	5.111 mg/L	mg/L	1.4045	5.111 mg/L	1.4045	27.48%
Pb 220.353†	9098.1	1.062 mg/L	mg/L	0.0681	1.062 mg/L	0.0681	6.42%
Sb 206.836†	10410.7	2.674 mg/L	mg/L	0.2521	2.674 mg/L	0.2521	9.43%
Se 196.026†	-2026.1	-1.514 mg/L	mg/L	0.6808	-1.514 mg/L	0.6808	44.97%
Si 288.158†	-70920.1	-35.14 mg/L	mg/L	2.984	-35.14 mg/L	2.984	8.49%
Sn 189.927†	-909.8	-0.2329 mg/L	mg/L	0.05866	-0.2329 mg/L	0.05866	25.19%
Sr 421.552†	-120895.7	-0.2283 mg/L	mg/L	0.06694	-0.2283 mg/L	0.06694	29.32%
Ti 334.903†	77103.0	4.590 mg/L	mg/L	1.5824	4.590 mg/L	1.5824	34.47%
Tl 190.801†	-4249.4	-2.064 mg/L	mg/L	0.0891	-2.064 mg/L	0.0891	4.32%
V 292.402†	24799.9	0.4098 mg/L	mg/L	0.01038	0.4098 mg/L	0.01038	2.53%
Zn 206.200†	-8528.2	-2.123 mg/L	mg/L	0.5754	-2.123 mg/L	0.5754	27.11%

Sequence No.: 40

Autosampler Location: 10

Sample ID: DI

Date Collected: 5/10/2017 3:57:03 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: DI

Analyte Back Pressure Flow
 All 161.0 kPa 0.65 L/min

Mean Data: DI

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	15325.9	0.6797	%	0.00302			0.44%
ScR 361.383	-190.1	-0.07910	%	0.005505			6.96%
Ag 328.068†	-12464.0	-0.08098	mg/L	0.064113	-0.08098 mg/L	0.064113	79.17%
Al 308.215†	-235762.3	-160.9	mg/L	17.62	-160.9 mg/L	17.62	10.96%
As 188.979†	-235.2	-0.1389	mg/L	0.06281	-0.1389 mg/L	0.06281	45.21%
B 249.677†	-69426.6	-9.508	mg/L	1.5293	-9.508 mg/L	1.5293	16.08%
Ba 233.527†	-41757.2	-8.288	mg/L	0.1785	-8.288 mg/L	0.1785	2.15%
Be 313.042†	-1084644.0	-2.462	mg/L	0.1463	-2.462 mg/L	0.1463	5.94%
Ca 317.933†	-235637.1	-19.15	mg/L	0.589	-19.15 mg/L	0.589	3.08%
Cd 228.802†	10347.4	0.3774	mg/L	0.01947	0.3774 mg/L	0.01947	5.16%
Co 228.616†	-6495.8	-0.1824	mg/L	0.01287	-0.1824 mg/L	0.01287	7.06%
Cr 267.716†	251844.4	36.73	mg/L	1.814	36.73 mg/L	1.814	4.94%
Cu 324.752†	233752.2	1.137	mg/L	0.0106	1.137 mg/L	0.0106	0.93%
Fe 273.955†	-38948.6	-29.95	mg/L	4.326	-29.95 mg/L	4.326	14.44%
K 766.490†	-909847.2	-524.0	mg/L	43.26	-524.0 mg/L	43.26	8.26%
Mg 279.077†	-114553.5	-83.77	mg/L	1.407	-83.77 mg/L	1.407	1.68%
Mn 257.610†	-310379.5	-8.055	mg/L	0.5700	-8.055 mg/L	0.5700	7.08%
Mo 202.031†	6686.9	0.3339	mg/L	0.03477	0.3339 mg/L	0.03477	10.41%
Na 589.592†	-193589.2	-22.16	mg/L	3.968	-22.16 mg/L	3.968	17.90%
Na 330.237†	337824.5	14840	mg/L	848.69	14840 mg/L	848.69	5.72%
Ni 231.604†	25173.6	4.998	mg/L	1.5760	4.998 mg/L	1.5760	31.53%
Pb 220.353†	10008.5	1.169	mg/L	0.0624	1.169 mg/L	0.0624	5.34%
Sb 206.836†	9437.2	2.364	mg/L	0.3562	2.364 mg/L	0.3562	15.07%
Se 196.026†	-1326.2	-0.9829	mg/L	0.12513	-0.9829 mg/L	0.12513	12.73%
Si 288.158†	-64249.5	-31.80	mg/L	2.022	-31.80 mg/L	2.022	6.36%
Sn 189.927†	-1070.9	-0.2745	mg/L	0.02590	-0.2745 mg/L	0.02590	9.44%
Sr 421.552†	-138441.6	-0.2614	mg/L	0.04212	-0.2614 mg/L	0.04212	16.11%
Ti 334.903†	39649.1	2.357	mg/L	0.8188	2.357 mg/L	0.8188	34.74%
Tl 190.801†	-3355.9	-1.630	mg/L	0.1705	-1.630 mg/L	0.1705	10.46%
V 292.402†	24966.3	0.4116	mg/L	0.01186	0.4116 mg/L	0.01186	2.88%
Zn 206.200†	-9415.4	-2.342	mg/L	0.5510	-2.342 mg/L	0.5510	23.52%

Sequence No.: 41

Autosampler Location: 10

Sample ID: DI2

Date Collected: 5/10/2017 4:00:45 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: DI2

Analyte	Back Pressure	Flow
All	161.0 kPa	0.65 L/min

Mean Data: DI2

Analyte	Mean Corrected Intensity	Conc. Units	Calib. Units	Std.Dev.	Conc. Units	Sample Std.Dev.	RSD
ScA 357.253	15338.6	0.6802	%	0.00314			0.46%
ScR 361.383	-191.8	-0.07981	%	0.010840			13.58%
Ag 328.068†	-9932.0	-0.06451	mg/L	0.049070	-0.06451 mg/L	0.049070	76.07%
Al 308.215†	-232075.6	-158.3	mg/L	14.69	-158.3 mg/L	14.69	9.28%
As 188.979†	-576.8	-0.3142	mg/L	0.42548	-0.3142 mg/L	0.42548	135.44%
B 249.677†	-76420.5	-10.46	mg/L	2.021	-10.46 mg/L	2.021	19.32%
Ba 233.527†	-42739.2	-8.483	mg/L	0.6010	-8.483 mg/L	0.6010	7.09%
Be 313.042†	-1082454.1	-2.457	mg/L	0.3333	-2.457 mg/L	0.3333	13.56%
Ca 317.933†	-239637.6	-19.48	mg/L	3.032	-19.48 mg/L	3.032	15.56%
Cd 228.802†	10229.8	0.3745	mg/L	0.01720	0.3745 mg/L	0.01720	4.59%
Co 228.616†	-6828.1	-0.1924	mg/L	0.03542	-0.1924 mg/L	0.03542	18.41%
Cr 267.716†	241802.2	35.27	mg/L	3.875	35.27 mg/L	3.875	10.99%
Cu 324.752†	235074.2	1.143	mg/L	0.0014	1.143 mg/L	0.0014	0.13%
Fe 273.955†	-38669.8	-29.74	mg/L	4.903	-29.74 mg/L	4.903	16.48%
K 766.490†	-935652.5	-538.9	mg/L	82.40	-538.9 mg/L	82.40	15.29%
Mg 279.077†	-118344.6	-86.54	mg/L	14.839	-86.54 mg/L	14.839	17.15%
Mn 257.610†	-313070.9	-8.125	mg/L	1.0067	-8.125 mg/L	1.0067	12.39%
Mo 202.031†	6157.9	0.3074	mg/L	0.04026	0.3074 mg/L	0.04026	13.10%
Na 589.592†	-245884.1	-28.15	mg/L	5.433	-28.15 mg/L	5.433	19.30%
Na 330.237†	335152.1	14720	mg/L	2126.15	14720 mg/L	2126.15	14.44%
Ni 231.604†	24643.8	4.893	mg/L	0.7967	4.893 mg/L	0.7967	16.28%
Pb 220.353†	9007.5	1.052	mg/L	0.0393	1.052 mg/L	0.0393	3.74%
Sb 206.836†	9342.6	2.362	mg/L	0.3233	2.362 mg/L	0.3233	13.69%
Se 196.026†	-1807.1	-1.349	mg/L	0.2089	-1.349 mg/L	0.2089	15.48%
Si 288.158†	-51986.5	-25.75	mg/L	6.109	-25.75 mg/L	6.109	23.73%
Sn 189.927†	-403.0	-0.1044	mg/L	0.03433	-0.1044 mg/L	0.03433	32.87%
Sr 421.552†	-150257.3	-0.2838	mg/L	0.03297	-0.2838 mg/L	0.03297	11.62%
Ti 334.903†	47573.1	2.830	mg/L	1.3606	2.830 mg/L	1.3606	48.08%
Tl 190.801†	-3564.9	-1.732	mg/L	0.1754	-1.732 mg/L	0.1754	10.13%
V 292.402†	27163.5	0.4245	mg/L	0.02408	0.4245 mg/L	0.02408	5.67%
Zn 206.200†	-12900.0	-3.208	mg/L	1.2949	-3.208 mg/L	1.2949	40.37%

Sequence No.: 42

Autosampler Location: 10

Sample ID: DI3

Date Collected: 5/10/2017 4:04:30 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: DI3

Analyte	Back Pressure	Flow
All	161.0 kPa	0.65 L/min

Mean Data: DI3

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	15215.7	0.6748	%	0.00252				0.37%
ScR 361.383	-200.6	-0.08343	%	0.003790				4.54%
Ag 328.068†	-15613.0	-0.1015	mg/L	0.02325	-0.1015	mg/L	0.02325	22.92%
Al 308.215†	-243139.0	-165.9	mg/L	9.93	-165.9	mg/L	9.93	5.99%
As 188.979†	-129.4	-0.04226	mg/L	0.264770	-0.04226	mg/L	0.264770	626.47%
B 249.677†	-77788.8	-10.65	mg/L	0.341	-10.65	mg/L	0.341	3.21%
Ba 233.527†	-39417.7	-7.824	mg/L	0.9100	-7.824	mg/L	0.9100	11.63%
Be 313.042†	-1052948.5	-2.390	mg/L	0.0982	-2.390	mg/L	0.0982	4.11%
Ca 317.933†	-238310.5	-19.37	mg/L	0.756	-19.37	mg/L	0.756	3.90%
Cd 228.802†	9906.7	0.3609	mg/L	0.01084	0.3609	mg/L	0.01084	3.00%
Co 228.616†	-6009.8	-0.1716	mg/L	0.03369	-0.1716	mg/L	0.03369	19.64%
Cr 267.716†	237329.3	34.62	mg/L	3.066	34.62	mg/L	3.066	8.86%
Cu 324.752†	231890.5	1.128	mg/L	0.0165	1.128	mg/L	0.0165	1.46%
Fe 273.955†	-34543.5	-26.56	mg/L	1.976	-26.56	mg/L	1.976	7.44%
K 766.490†	-869438.3	-500.7	mg/L	20.69	-500.7	mg/L	20.69	4.13%
Mg 279.077†	-116756.6	-85.38	mg/L	8.418	-85.38	mg/L	8.418	9.86%
Mn 257.610†	-299010.2	-7.760	mg/L	0.4208	-7.760	mg/L	0.4208	5.42%
Mo 202.031†	6211.9	0.3101	mg/L	0.02942	0.3101	mg/L	0.02942	9.49%
Na 589.592†	-196208.3	-22.46	mg/L	7.898	-22.46	mg/L	7.898	35.16%
Na 330.237†	322049.1	14150	mg/L	896.31	14150	mg/L	896.31	6.34%
Ni 231.604†	24205.9	4.806	mg/L	1.9972	4.806	mg/L	1.9972	41.56%
Pb 220.353†	9008.5	1.049	mg/L	0.0752	1.049	mg/L	0.0752	7.17%
Sb 206.836†	9272.0	2.351	mg/L	0.3092	2.351	mg/L	0.3092	13.15%
Se 196.026†	-1336.4	-0.9899	mg/L	0.62358	-0.9899	mg/L	0.62358	62.99%
Si 288.158†	-59974.3	-29.71	mg/L	5.335	-29.71	mg/L	5.335	17.95%
Sn 189.927†	-671.6	-0.1728	mg/L	0.17953	-0.1728	mg/L	0.17953	103.88%
Sr 421.552†	-132473.3	-0.2502	mg/L	0.02090	-0.2502	mg/L	0.02090	8.35%
Ti 334.903†	62237.0	3.705	mg/L	1.0928	3.705	mg/L	1.0928	29.50%
Tl 190.801†	-3123.6	-1.518	mg/L	0.2910	-1.518	mg/L	0.2910	19.17%
V 292.402†	27678.2	0.4255	mg/L	0.04727	0.4255	mg/L	0.04727	11.11%
Zn 206.200†	-11249.6	-2.798	mg/L	0.3539	-2.798	mg/L	0.3539	12.65%

Sequence No.: 43

Autosampler Location: 10

Sample ID: DI4

Date Collected: 5/10/2017 4:08:15 PM

Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: DI4

Analyte	Back Pressure	Flow
All	161.0 kPa	0.65 L/min

Mean Data: DI4

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	15429.1	0.6842	%	0.00147				0.21%
ScR 361.383	-185.2	-0.07703	%	0.007167				9.30%
Ag 328.068†	-25190.0	-0.1637	mg/L	0.04470	-0.1637	mg/L	0.04470	27.30%
Al 308.215†	-227294.5	-155.1	mg/L	38.55	-155.1	mg/L	38.55	24.86%
As 188.979†	-408.1	-0.2371	mg/L	0.16221	-0.2371	mg/L	0.16221	68.43%
B 249.677†	-85334.2	-11.68	mg/L	1.161	-11.68	mg/L	1.161	9.93%
Ba 233.527†	-39389.0	-7.817	mg/L	0.3921	-7.817	mg/L	0.3921	5.02%
Be 313.042†	-1125463.8	-2.555	mg/L	0.2664	-2.555	mg/L	0.2664	10.43%
Ca 317.933†	-232997.1	-18.94	mg/L	1.362	-18.94	mg/L	1.362	7.19%
Cd 228.802†	9565.0	0.3501	mg/L	0.01316	0.3501	mg/L	0.01316	3.76%
Co 228.616†	-6291.6	-0.1766	mg/L	0.00864	-0.1766	mg/L	0.00864	4.89%
Cr 267.716†	248081.2	36.19	mg/L	3.806	36.19	mg/L	3.806	10.52%
Cu 324.752†	231988.8	1.129	mg/L	0.0100	1.129	mg/L	0.0100	0.89%
Fe 273.955†	-43050.0	-33.11	mg/L	3.406	-33.11	mg/L	3.406	10.29%
K 766.490†	-1019534.3	-587.2	mg/L	44.67	-587.2	mg/L	44.67	7.61%
Mg 279.077†	-127525.5	-93.26	mg/L	6.670	-93.26	mg/L	6.670	7.15%
Mn 257.610†	-321511.7	-8.344	mg/L	0.7188	-8.344	mg/L	0.7188	8.61%
Mo 202.031†	5273.1	0.2630	mg/L	0.01676	0.2630	mg/L	0.01676	6.37%
Na 589.592†	-2469230.1	-282.7	mg/L	21.69	-282.7	mg/L	21.69	7.67%
Na 330.237†	350306.3	15390	mg/L	1772.26	15390	mg/L	1772.26	11.52%
Ni 231.604†	25729.9	5.109	mg/L	0.9438	5.109	mg/L	0.9438	18.47%
Pb 220.353†	9372.4	1.096	mg/L	0.0735	1.096	mg/L	0.0735	6.71%
Sb 206.836†	9950.1	2.538	mg/L	0.2209	2.538	mg/L	0.2209	8.70%
Se 196.026†	-1535.8	-1.143	mg/L	0.3473	-1.143	mg/L	0.3473	30.37%
Si 288.158†	-57607.6	-28.51	mg/L	6.703	-28.51	mg/L	6.703	23.51%
Sn 189.927†	-1158.9	-0.2968	mg/L	0.08231	-0.2968	mg/L	0.08231	27.74%
Sr 421.552†	-179611.0	-0.3392	mg/L	0.01571	-0.3392	mg/L	0.01571	4.63%
Ti 334.903†	37422.0	2.224	mg/L	0.9526	2.224	mg/L	0.9526	42.82%
Tl 190.801†	-3195.6	-1.552	mg/L	0.3402	-1.552	mg/L	0.3402	21.91%
V 292.402†	25679.9	0.4157	mg/L	0.00443	0.4157	mg/L	0.00443	1.07%
Zn 206.200†	-14387.0	-3.578	mg/L	1.0056	-3.578	mg/L	1.0056	28.11%



INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010C

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Instrument ID: ICP2

Calibration: AE00030

Control Limit: +/- 10.00%

Sequence: SFE0141

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SFE0141-ICV1	Cadmium	1.0000	1.02	102	mg/L	EPA 6010C
SFE0141-CCV1	Cadmium	1.0000	1.04	104	mg/L	EPA 6010C
SFE0141-CCV2	Cadmium	1.0000	1.03	103	mg/L	EPA 6010C
SFE0141-CCV3	Cadmium	1.0000	1.03	103	mg/L	EPA 6010C
SFE0141-CCV4	Cadmium	1.0000	1.05	105	mg/L	EPA 6010C
SFE0141-CCV5	Cadmium	1.0000	1.04	104	mg/L	EPA 6010C
SFE0141-CCV6	Cadmium	1.0000	1.05	105	mg/L	EPA 6010C
SFE0141-CCV7	Cadmium	1.0000	1.03	103	mg/L	EPA 6010C
SFE0141-CCV8	Cadmium	1.0000	1.01	101	mg/L	EPA 6010C

* Values outside of QC limits



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010C

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Sequence: SFE0141

Instrument: ICP2

Calibration: AE00030

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
CAL 0	SFE0141-CAL1	I2170510-001	Water	05/10/17 09:33
CAL 1 - LOW CHECK	SFE0141-CAL2	I2170510-002	Water	05/10/17 09:37
CAL 2	SFE0141-CAL3	I2170510-003	Water	05/10/17 09:39
CAL 3	SFE0141-CAL4	I2170510-004	Water	05/10/17 09:41
CAL 4	SFE0141-CAL5	I2170510-005	Water	05/10/17 09:43
Initial Cal Check	SFE0141-ICV1	I2170510-006	Water	05/10/17 09:49
Initial Cal Blank	SFE0141-ICB1	I2170510-007	Water	05/10/17 09:53
Instrument RL Check	SFE0141-CRL1	I2170510-008	Water	05/10/17 09:57
Interference Check A	SFE0141-IFA1	I2170510-009	Water	05/10/17 10:01
Interference Check B	SFE0141-IFB1	I2170510-010	Water	05/10/17 10:05
Calibration Check	SFE0141-CCV1	I2170510-011	Water	05/10/17 10:11
Calibration Blank	SFE0141-CCB1	I2170510-012	Water	05/10/17 10:16
ZZZZZ	BFE0201-BLK1	I2170510-013	Solid	05/10/17 10:20
ZZZZZ	17D0447-01	I2170510-014	Solid	05/10/17 10:24
ZZZZZ	17D0397-06	I2170510-016	Solid	05/10/17 10:32
ZZZZZ	17E0009-02	I2170510PRE-023	Water	05/10/17 10:40
ZZZZZ	17E0009-01	I2170510PRE-025	Water	05/10/17 10:53
ZZZZZ	BFE0201-BS1	I2170510-022	Solid	05/10/17 11:04
Calibration Check	SFE0141-CCV2	I2170510-023	Water	05/10/17 11:11
Calibration Blank	SFE0141-CCB2	I2170510-024	Water	05/10/17 11:18
Blank	BFE0167-BLK1	I2170510-025	Tissue	05/10/17 11:22
ZZZZZ	17D0421-01	I2170510-026	Tissue	05/10/17 11:26
ZZZZZ	17D0447-03	I2170510-027	Solid	05/10/17 11:30
ZZZZZ	17D0447-04	I2170510-028	Solid	05/10/17 11:34
ZZZZZ	17D0447-06	I2170510-029	Solid	05/10/17 11:38
ZZZZZ	17E0011-01	I2170510-032	Solid	05/10/17 11:50
LCS	BFE0167-BS1	I2170510-034	Tissue	05/10/17 11:58
Calibration Check	SFE0141-CCV3	I2170510-035	Water	05/10/17 12:02
Calibration Blank	SFE0141-CCB3	I2170510-036	Water	05/10/17 12:07
ZZZZZ	17D0421-02	I2170510-037	Tissue	05/10/17 12:11
ZZZZZ	17D0421-03	I2170510-038	Tissue	05/10/17 12:15



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010C

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Sequence: SFE0141

Instrument: ICP2

Calibration: AE00030

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	17D0421-04	I2170510-039	Tissue	05/10/17 12:19
ZZZZZ	17D0421-05	I2170510-040	Tissue	05/10/17 12:24
ZZZZZ	17D0421-06	I2170510-041	Tissue	05/10/17 12:28
ZZZZZ	17E0084-03	I2170510-043	Solid	05/10/17 12:36
ZZZZZ	17E0074-01	I2170510-045	Solid	05/10/17 12:44
Calibration Check	SFE0141-CCV4	I2170510-047	Water	05/10/17 12:52
Calibration Blank	SFE0141-CCB4	I2170510-048	Water	05/10/17 12:57
Calibration Check	SFE0141-CCV5	I2170510-051	Water	05/10/17 13:05
Calibration Blank	SFE0141-CCB5	I2170510-052	Water	05/10/17 13:10
ZZZZZ	BFE0283-BLK1	I2170510-053	Water	05/10/17 13:14
ZZZZZ	17D0421-07	I2170510-054	Tissue	05/10/17 13:18
ZZZZZ	17D0421-09	I2170510-055	Tissue	05/10/17 13:22
ZZZZZ	17D0421-10	I2170510-056	Tissue	05/10/17 13:27
ZZZZZ	17D0421-08	I2170510-058	Tissue	05/10/17 13:35
ZZZZZ	BFE0283-BS1	I2170510-062	Water	05/10/17 13:53
Calibration Check	SFE0141-CCV6	I2170510-063	Water	05/10/17 13:58
Calibration Blank	SFE0141-CCB6	I2170510-064	Water	05/10/17 14:04
PG-PJ-OYS-COC-170427	17E0012-01	I2170510-066	Tissue	05/10/17 14:12
PG-PJ-COC-COC-170427	17E0012-02	I2170510-067	Tissue	05/10/17 14:17
PG-PJ-LTN-COC-170427	17E0012-03	I2170510-068	Tissue	05/10/17 14:21
PG-PJ-MAN-COC-170427	17E0012-04	I2170510-069	Tissue	05/10/17 14:25
ZZZZZ	17E0085-01	I2170510-070	Solid	05/10/17 14:29
ZZZZZ	17D0447-08	I2170510-071	Solid	05/10/17 14:33
ZZZZZ	17E0111-01	I2170510-073	Solid	05/10/17 14:42
Calibration Check	SFE0141-CCV7	I2170510-075	Water	05/10/17 14:50
Calibration Blank	SFE0141-CCB7	I2170510-076	Water	05/10/17 14:55
PG-PJ-HC-COC-170428	17E0012-05	I2170510-077	Tissue	05/10/17 14:59
PG-PJ-MUS-COC-170427	17E0012-06	I2170510-078	Tissue	05/10/17 15:03
ZZZZZ	17E0055-01	I2170510-079	Solid	05/10/17 15:08
ZZZZZ	17E0074-01	I2170510-080	Solid	05/10/17 15:12
ZZZZZ	17E0077-03	I2170510-081	Solid	05/10/17 15:16



ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010C

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Sequence: SFE0141

Instrument: ICP2

Calibration: AE00030

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
<i>ZZZZZ</i>	17E0124-03	I2170510-082	Water	05/10/17 15:21
Instrument Blank	SFE0141-IBL1	I2170510-083	Water	05/10/17 15:27
Calibration Check	SFE0141-CCV8	I2170510-084	Water	05/10/17 15:32
Calibration Blank	SFE0141-CCB8	I2170510-085	Water	05/10/17 15:37



ICP INTERFERENCE CHECK SAMPLE

EPA 6010C

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Instrument ID: ICP2

Calibration: AE00030

Sequence: SFE0141

Standard ID: F003354

Lab Sample ID	Analyte	True	Found	%R	Units
SFE0141-IFA1	Cadmium	0	0.0005		mg/L
	Vanadium	0	0.0045		mg/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.



ICP INTERFERENCE CHECK SAMPLE

EPA 6010C

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Instrument ID: ICP2

Calibration: AE00030

Sequence: SFE0141

Standard ID: F003354

Lab Sample ID	Analyte	True	Found	%R	Units
SFE0141-IFB1	Cadmium	1.0000	1.0053	101	mg/L

* Indicates %R outside of QC limits

NOTE: True value and %R are populated only for analytes found in the interference check standards, and will be seen only if those analytes were requested.



INTER-ELEMENT CORRECTION FACTORS

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Instrument: ICP2

IEC Date: 04/17/2017

Analyte	Wave-length (nm)	Inter-element Correction Factors for:				
		<u>Al</u>	<u>Ca</u>	<u>Fe</u>	<u>Mg</u>	<u>Sb</u>
Cadmium	228.8					
Vanadium				0.036615		



INTER-ELEMENT CORRECTION FACTORS

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Instrument: ICP2

IEC Date: 04/17/2017

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		<u>As</u>	<u>Ba</u>	<u>Cd</u>	<u>Cr</u>	<u>Co</u>
Cadmium	228.8	7.616655				0.123938
Vanadium					-4.908316	



INTER-ELEMENT CORRECTION FACTORS

Laboratory:	Analytical Resources, Inc.	SDG:	17E0012
Client:	Anchor QEA, LLC	Project:	Port Gamble Shellfish Monitoring
Instrument:	ICP2	IEC Date:	04/17/2017

Analyte	Wave-length (nm)	Interelement Correction Factors for:				
		<u>Zn</u>				
Cadmium	228.8					
Vanadium						



DETECTION LEVEL STANDARD

EPA 6010C

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Instrument ID: ICP2

Calibration: AE00030

Sequence: SFE0141

Lab Sample ID: SFE0141-CRL1

Analyte	True	Found	%R	Units	QC Limits
Cadmium	0.0020	0.0023	117	mg/L	50 - 150

* Values outside of QC limits



HOLDING TIME SUMMARY

Analysis: EPA 6010C

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

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-PJ-OYS-COC-170427 17E0012-01	04/27/17 13:00	04/29/17 10:00	05/09/17 14:15	12	180	05/10/17 14:12	13	180	
PG-PJ-COC-COC-170427 17E0012-02	04/27/17 12:45	04/29/17 10:00	05/09/17 14:15	12	180	05/10/17 14:17	13	180	
PG-PJ-LTN-COC-170427 17E0012-03	04/27/17 13:30	04/29/17 10:00	05/09/17 14:15	12	180	05/10/17 14:21	13	180	
PG-PJ-MAN-COC-170427 17E0012-04	04/27/17 12:00	04/29/17 10:00	05/09/17 14:15	12	180	05/10/17 14:25	13	180	
PG-PJ-HC-COC-170428 17E0012-05	04/28/17 13:30	04/29/17 10:00	05/09/17 14:15	11	180	05/10/17 14:59	12	180	
PG-PJ-MUS-COC-170427 17E0012-06	04/27/17 12:30	04/29/17 10:00	05/09/17 14:15	12	180	05/10/17 15:03	13	180	

* Indicates hold time exceedance.



METHOD DETECTION AND REPORTING LIMITS

EPA 6010C

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Matrix: Tissue

Instrument: ICP2

Analyte	MDL	RL	Units
Cadmium	0.0025	0.0400	mg/kg



METHOD DETECTION AND REPORTING LIMITS

EPA 6010C

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Matrix: Water

Instrument: ICP2

Analyte	MDL	RL	Units
Cadmium	0.0003	0.0020	mg/L



Form I
INORGANIC ANALYSIS DATA SHEET

PG-PJ-OYS-COC-170427

Bligh & Dyer (Mod)
TotalAnalytes

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Matrix: Tissue Laboratory ID: 17E0012-01 SDG: 17E0012
Sampled: 04/27/17 13:00 Prepared: 05/09/17 09:30 File ID:
Solids: 0.00 Preparation: EPA 3550C-Mod (Ultrasonic) Analyzed: 05/15/17 17:18
Batch: BFE0161 Sequence: Initial/Final: 5.19 g / 5 mL
Instrument: Inst Calibration:

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Percent Lipids	1.4	1	0.010	0.010	



Form I
INORGANIC ANALYSIS DATA SHEET

PG-PJ-COC-COC-170427

Bligh & Dyer (Mod)
TotalAnalytes

Laboratory: Analytical Resources, Inc.

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Matrix: Tissue Laboratory ID: 17E0012-02 SDG: 17E0012

Sampled: 04/27/17 12:45 Prepared: 05/09/17 09:30 File ID:

Solids: 0.00 Preparation: EPA 3550C-Mod (Ultrasonic) Analyzed: 05/15/17 17:18

Batch: BE0161 Sequence: Initial/Final: 5.11 g / 5 mL

Instrument: Inst Calibration:

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Percent Lipids	0.64	1	0.010	0.010	



Form I
INORGANIC ANALYSIS DATA SHEET

PG-PJ-LTN-COC-170427

Bligh & Dyer (Mod)
TotalAnalytes

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Matrix: Tissue Laboratory ID: 17E0012-03 SDG: 17E0012
Sampled: 04/27/17 13:30 Prepared: 05/09/17 09:30 File ID:
Solids: 0.00 Preparation: EPA 3550C-Mod (Ultrasonic) Analyzed: 05/15/17 17:18
Batch: BFE0161 Sequence: Initial/Final: 5.08 g / 5 mL
Instrument: Inst Calibration:

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Percent Lipids	0.94	1	0.010	0.010	



Form I
INORGANIC ANALYSIS DATA SHEET

PG-PJ-MAN-COC-170427

Bligh & Dyer (Mod)
TotalAnalytes

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Matrix: Tissue Laboratory ID: 17E0012-04 SDG: 17E0012
Sampled: 04/27/17 12:00 Prepared: 05/09/17 09:30 File ID:
Solids: 0.00 Preparation: EPA 3550C-Mod (Ultrasonic) Analyzed: 05/15/17 17:18
Batch: BFE0161 Sequence: Initial/Final: 5.08 g / 5 mL
Instrument: Inst Calibration:

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Percent Lipids	0.73	1	0.010	0.010	



Form I
INORGANIC ANALYSIS DATA SHEET

PG-PJ-HC-COC-170428

Bligh & Dyer (Mod)
TotalAnalytes

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Matrix: Tissue Laboratory ID: 17E0012-05 SDG: 17E0012
Sampled: 04/28/17 13:30 Prepared: 05/09/17 09:30 File ID:
Solids: 0.00 Preparation: EPA 3550C-Mod (Ultrasonic) Analyzed: 05/15/17 17:18
Batch: BFE0161 Sequence: Initial/Final: 5.13 g / 5 mL
Instrument: Inst Calibration:

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Percent Lipids	0.79	1	0.010	0.010	



Form I
INORGANIC ANALYSIS DATA SHEET

PG-PJ-MUS-COC-170427

Bligh & Dyer (Mod)
TotalAnalytes

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Matrix: Tissue Laboratory ID: 17E0012-06 SDG: 17E0012
Sampled: 04/27/17 12:30 Prepared: 05/09/17 09:30 File ID:
Solids: 0.00 Preparation: EPA 3550C-Mod (Ultrasonic) Analyzed: 05/15/17 17:18
Batch: BE0161 Sequence: Initial/Final: 5.18 g / 5 mL
Instrument: Inst Calibration:

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Percent Lipids	0.72	1	0.010	0.010	



Batch: BFE0161

Prepared using: EPA 3550C-Mod (Ultrasonic)

Lipids, Percent in Tissue

Matrix: Tissue

Date Prepared: 05/08/17

Balance ID: B13929802

Set Up By: JW

Analysis: Lipids, Percent

Lab Number & Container	Initial (g)		(split aliquot) Y/N	Volume Taken (µL)	Tare Weight	Tare + Sample Weight	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
	Target Dry: 5 (Wet)	Actual							
17D0421-01 A	(5.00)	5.26	() Y/N	(1000 µL)	1.1737	1.3084	NA	NA	
17D0421-02 A	(5.00)	5.25	() Y/N	(1000 µL)	1.1785	1.2515	NA	NA	
17D0421-03 A	(5.00)	5.01	() Y/N	(1000 µL)	1.1741	1.2154	NA	NA	
17D0421-04 A	(5.00)	5.01	() Y/N	(1000 µL)	1.1668	1.2681	NA	NA	
17D0421-05 A	(5.00)	5.05	() Y/N	(1000 µL)	1.1723	1.2178	NA	NA	
17D0421-06 A	(5.00)	5.14	() Y/N	(1000 µL)	1.1634	1.1983	NA	NA	
17D0421-07 A	(5.00)	5.10	() Y/N	(1000 µL)	1.1754	1.2110	NA	NA	
17D0421-08 A	(5.00)	5.10	() Y/N	(1000 µL)	1.1754	1.2521	NA	NA	
17D0421-09 A	(5.00)	5.17	() Y/N	(1000 µL)	1.1662	1.1898	NA	NA	
17D0421-10 A	(5.00)	5.08	() Y/N	(1000 µL)	1.1707	3.3719	NA	NA	See notes (Final wt 5.4087)
17E0012-01 A	(5.00)	5.19	() Y/N	(1000 µL)	1.1707	1.2422	NA	NA	
17E0012-02 A	(5.00)	5.11	() Y/N	(1000 µL)	1.1636	1.1961	NA	NA	
17E0012-03 A	(5.00)	5.08	() Y/N	(1000 µL)	1.1676	1.2151	NA	NA	
17E0012-04 A	(5.00)	5.08	() Y/N	(1000 µL)	1.1756	1.2128	NA	NA	
17E0012-05 A	(5.00)	5.13	() Y/N	(1000 µL)	1.1703	1.2109	NA	NA	
17E0012-06 A	(5.00)	5.18	() Y/N	(1000 µL)	1.1693	1.2468	NA	NA	

Batch QC

Lab Number	Initial (g)		(split aliquot) Y/N	Volume Taken (µL)	Tare Weight	Tare + Sample Weight	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
	Target Dry: 5 (Wet)	Actual							
BFE0161-BLK1	(5.00)	5.00	() Y/N	(1000 µL)	1.1737	1.1850	NA	NA	
BFE0161-DUP1	(5.00)	5.04	() Y/N	(1000 µL)	1.1735	1.2562	NA	NA	Use 17D0421-08

Analytical Balance
344148

Client ID verified By: JW 05/08/17

Date

Preparation Reviewed By: JW 5/15/17

Date

Extraction Date and Time: 05/09/17 9:34



Batch: BFE0161

Prepared using: EPA 3550C-Mod (Ultrasonic)

Lipids, Percent in Tissue

Prep Steps	Reagents Used	Surrogates & Spike Standards Used					
	Station/Reagent	Standard ID	Type	Standard ID	Vol uL	Analyst	Witness
KD 80-85°C 100cc 1 2 3 4 5 6 AI 5/10/17 Analyst/Date	Tissue Mizing						
	Analyst: <i>me</i> Date: <i>05/09/17</i>						
TurboVap 1 2 3 4 5 Analyst/Date	Anhydrous Sodium Sulfate	F003342					
	1:1 Methylene Chloride/Acetone	F004154					
	Methylene Chloride	F003880					
Vialing SE 5/12/17 Analyst/Date	Neutral Glass Wool	F001060					
	Methylene Chloride	F003880					
	Analyst: <i>AI</i> Date: <i>5/10/17</i>						
Vialing SE 5/12/17 Analyst/Date	Anhydrous Sodium Sulfate	F003342					
	Neutral Glass Wool	F001060					
Vialing SE 5/12/17 Analyst/Date	Methylene Chloride	F003880					
	Analyst: <i>SE</i> Date: <i>5/12/17</i>						
	Methylene Chloride	F003880					

(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.

If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator in the Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).



Batch: BFE0161

Prepared using: EPA 3550C-Mod (Ultrasonic)

Lipids, Percent in Tissue

Prep Instructions	
<p>SPECIAL INSTRUCTIONS:</p> <ol style="list-style-type: none">1. Weigh into 250mL Centrifuge bottles.2. Use 10 g neutral Sodium Sulfate for the blanks.3. Add 1:1 DCM/Acetone.4. Add Sodium Sulfate to samples just prior to tissuemizing.5. Tissuemize (2X) with 1:1 DCM/Acetone + (1X) DCM only.6. Collect in 500mL flask + Lg Funnel with glasswool (NO Sodium Sulfate).7. KD (Normal drying column) at 80-85°C 100°C8. Turbovap to 1mL.9. Record weights of empty tins from Analytical Balance in Tare Weight column.10. Transfer the 1mL extract into the empty tins.11. Dry extracts in tins under hood for a minimum of 2 hours.12. Store extracts in a desiccator over night.13. Re-weigh tins with Analytical Balance.14. Record weights in Tare+Sample Weight column.15. %Lipids are calculated by entering on LIMS.	



Extraction Parameter: Lipids

Element Batch: BFE0161 Work Order(s): 17D0421, 17E0012

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
<input type="checkbox"/> No Anomalies (standard soil/wet sediment/sand/gravel)=	
<input type="checkbox"/> Standing Water Decanted (Not shared)=	
<input type="checkbox"/> Standing Water Homogenized (Shared samples)=	
<input type="checkbox"/> Clay/Clumps (Difficult to homogenize)=	
<input type="checkbox"/> Rocks (%+size)?	
<input type="checkbox"/> Organics (Leaves/sticks/grass)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Received in 32oz jar(s)=Homogenized in Pyrex dish=	
<input checked="" type="checkbox"/> Other (Details)= ^{17D0421} oyster = φ1, cockle = φ2, φ3, oyster = φ4, cockle = φ5, little cockle = φ6, manila clams = φ7, geo-coc = φ8, muscle = φ9, cockle #1 φ (17E0012) oyster = φ1, cockle = φ2, little cockle #3, Manila clams #4.	✓ φ5/φ8/17 ⊥
Aqueous: Horse clams = φ5, muscle = φ6.	
<input type="checkbox"/> No Anomalies	
<input type="checkbox"/> Turbid/Color=	
<input type="checkbox"/> Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
<input type="checkbox"/> Emulsions (%)=	
<input type="checkbox"/> Oily, obvious fuel/sulfur odors=	
<input type="checkbox"/> Other (Details)=	
<input type="checkbox"/> Received in 1.0L Bottle(s)=No Bottle Rinse=	
<input type="checkbox"/> Other Notes/Comments= (Note problems, concerns, corrective actions). drying column used on samples 17D0421-10 & 17E0012- 01 & 17E0012-06 @ KD	T AF 5/10/17 ⊥
sample 17D0421-10 used a larger tin to dry sample due to heavy amount of lipid material	SP 5/12/17
<input checked="" type="checkbox"/> Share Samples Y/N	✓ φ5/φ8/17
<input checked="" type="checkbox"/> Multiple Jars Y/N 17E0421 = φ8 x 4	✓ φ5/φ8/17
<input type="checkbox"/> Sample Pre-Screens indicate analyte activity=	
<input type="checkbox"/> Sample weights/volumes reduced based on Pre-Screen=	

NOTE: Do not enter data in blue shaded cells as they are calculated fields.

PERCENT LIPIDS BENCHSHEET

Method: PSEP 1986

Batch: BFE0161
 Date: 5/8/2017 9:30
 Analyst: SP
 Desiccator: OE
 Analytical Balance: B139298002

Instrumentation

Batch drying time
 record times as mm/dd/yy hh:mm
 date/time in desiccator: 5/12/2017 10:30
 date/time out: 5/12/2017 18:00
 elapsed hrs: 7.5

Lipid Percent calculated as:

Lipid dry wt (g) = (Dry Wt - Tare Wt)

Lipid Percent = (Lipid Dry Wt X 1) / (Sample)

SAMPLE ID	Dish Tare Wt (g)	Dish & Sample (g)	Dry Wt (g)	Dried Sample Wt (g)	Percent Lipids	Source Sample	RPD
17D0421-01	1.1842	5.2600	1.3084	0.1242	2.36%		
17D0421-02	1.1785	5.2500	1.2515	0.0730	1.39%		
17D0421-03	1.1741	5.0100	1.2154	0.0413	0.82%		
17D0421-04	1.1668	5.0100	1.2681	0.1013	2.02%		
17D0421-05	1.1723	5.0500	1.2178	0.0455	0.90%		
17D0421-06	1.1634	5.1400	1.1983	0.0349	0.68%		
17D0421-07	1.1754	5.1000	1.2110	0.0356	0.70%		
17D0421-08	1.1750	5.1000	1.2521	0.0771	1.51%		
17D0421-09	1.1662	5.1700	1.1898	0.0236	0.46%		
17D0421-10	3.8269	5.0800	5.4087	1.5818	31.14%		
17E0012-01	1.1707	5.1900	1.2422	0.0715	1.38%		
17E0012-02	1.1636	5.1100	1.1961	0.0325	0.64%		
17E0012-03	1.1676	5.0800	1.2151	0.0475	0.94%		
17E0012-04	1.1756	5.0800	1.2128	0.0372	0.73%		
17E0012-05	1.1703	5.1300	1.2109	0.0406	0.79%		
17E0012-06	1.1693	5.1800	1.2068	0.0375	0.72%		
BFE0161-BLK1	1.1737	5.0000	1.1850	0.0113	0.23%		
BFE0161-DUP1	1.1735	5.0400	1.2562	0.0827	1.64%	17D0421-08	8.19%



Form I
METHOD BLANK DATA SHEET

Blank

Bligh & Dyer (Mod)

TotalAnalytes

Batch: BFE0161

Laboratory ID: BFE0161-BLK1

Prepared: 05/09/17 09:30

Matrix: Tissue

Preparation: EPA 3550C-Mod (Ultrason

Analyzed: 05/15/17 17:18

Sequence:

Calibration:

Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Percent Lipids	0.23	1	0.010	0.010	



HOLDING TIME SUMMARY

Analysis: Bligh & Dyer (Mod)

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

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-PJ-OYS-COC-170427 17E0012-01	04/27/17 13:00	04/29/17 10:00	05/09/17 09:30	11	365	05/15/17 17:18	18	365	
PG-PJ-COC-COC-170427 17E0012-02	04/27/17 12:45	04/29/17 10:00	05/09/17 09:30	11	365	05/15/17 17:18	18	365	
PG-PJ-LTN-COC-170427 17E0012-03	04/27/17 13:30	04/29/17 10:00	05/09/17 09:30	11	365	05/15/17 17:18	18	365	
PG-PJ-MAN-COC-170427 17E0012-04	04/27/17 12:00	04/29/17 10:00	05/09/17 09:30	11	365	05/15/17 17:18	18	365	
PG-PJ-HC-COC-170428 17E0012-05	04/28/17 13:30	04/29/17 10:00	05/09/17 09:30	10	365	05/15/17 17:18	17	365	
PG-PJ-MUS-COC-170427 17E0012-06	04/27/17 12:30	04/29/17 10:00	05/09/17 09:30	11	365	05/15/17 17:18	18	365	

* Indicates hold time exceedance.



METHOD DETECTION AND REPORTING LIMITS

Bligh & Dyer (Mod)

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Matrix: Tissue

Instrument:

Analyte	MDL	RL	Units
Percent Lipids	0.010	0.010	%



Form I
INORGANIC ANALYSIS DATA SHEET

PG-PJ-OYS-COC-170427

SM 2540 G-97
TotalAnalytes

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Matrix: Tissue Laboratory ID: 17E0012-01 SDG: 17E0012
Sampled: 04/27/17 13:00 Prepared: 05/04/17 15:03 File ID:
Solids: 0.00 Preparation: No Prep Extractions Analyzed: 05/04/17 16:04
Batch: BFE0151 Sequence: Initial/Final: 1 g / 1 g
Instrument: NA Calibration:

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	13.0	1		0.0400	



Form I
INORGANIC ANALYSIS DATA SHEET

PG-PJ-COC-COC-170427

SM 2540 G-97
TotalAnalytes

Laboratory: Analytical Resources, Inc.

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Matrix: Tissue Laboratory ID: 17E0012-02 SDG: 17E0012

Sampled: 04/27/17 12:45 Prepared: 05/04/17 15:03 File ID:

Solids: 0.00 Preparation: No Prep Extractions Analyzed: 05/04/17 16:04

Batch: BFE0151 Sequence: Initial/Final: 1 g / 1 g

Instrument: NA Calibration:

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	9.91	1		0.0400	



Form I
INORGANIC ANALYSIS DATA SHEET

PG-PJ-LTN-COC-170427

SM 2540 G-97
TotalAnalytes

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Matrix: Tissue Laboratory ID: 17E0012-03 SDG: 17E0012
Sampled: 04/27/17 13:30 Prepared: 05/04/17 15:03 File ID:
Solids: 0.00 Preparation: No Prep Extractions Analyzed: 05/04/17 16:04
Batch: BFE0151 Sequence: Initial/Final: 1 g / 1 g
Instrument: NA Calibration:

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	13.1	1		0.0400	



Form I
INORGANIC ANALYSIS DATA SHEET

PG-PJ-MAN-COC-170427

SM 2540 G-97
TotalAnalytes

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Matrix: Tissue Laboratory ID: 17E0012-04 SDG: 17E0012
Sampled: 04/27/17 12:00 Prepared: 05/04/17 15:03 File ID:
Solids: 0.00 Preparation: No Prep Extractions Analyzed: 05/04/17 16:04
Batch: BFE0151 Sequence: Initial/Final: 1 g / 1 g
Instrument: NA Calibration:

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	14.0	1		0.0400	



Form I
INORGANIC ANALYSIS DATA SHEET

PG-PJ-HC-COC-170428

SM 2540 G-97

TotalAnalytes

Laboratory: Analytical Resources, Inc.

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Matrix: Tissue Laboratory ID: 17E0012-05 SDG: 17E0012

Sampled: 04/28/17 13:30 Prepared: 05/04/17 15:03 File ID:

Solids: 0.00 Preparation: No Prep Extractions Analyzed: 05/04/17 16:04

Batch: BFE0151 Sequence: Initial/Final: 1 g / 1 g

Instrument: NA Calibration:

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	14.3	1		0.0400	



Form I
INORGANIC ANALYSIS DATA SHEET

PG-PJ-MUS-COC-170427

SM 2540 G-97
TotalAnalytes

Laboratory: Analytical Resources, Inc.
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Matrix: Tissue Laboratory ID: 17E0012-06 SDG: 17E0012
Sampled: 04/27/17 12:30 Prepared: 05/04/17 15:03 File ID:
Solids: 0.00 Preparation: No Prep Extractions Analyzed: 05/04/17 16:04
Batch: BFE0151 Sequence: Initial/Final: 1 g / 1 g
Instrument: NA Calibration:

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	10.9	1		0.0400	



PREPARATION BATCH SUMMARY

SM 2540 G-97

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Batch: BFE0151

Batch Matrix: Tissue

Preparation: No Prep Extractions

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
PG-PJ-OYS-COC-170427	17E0012-01		05/04/17 15:03	
PG-PJ-COC-COC-170427	17E0012-02		05/04/17 15:03	
PG-PJ-LTN-COC-170427	17E0012-03		05/04/17 15:03	
PG-PJ-MAN-COC-170427	17E0012-04		05/04/17 15:03	
PG-PJ-HC-COC-170428	17E0012-05		05/04/17 15:03	
PG-PJ-MUS-COC-170427	17E0012-06		05/04/17 15:03	

TOTAL SOLIDS BENCHSHEET

Method: PSEP 1986
(dry at 103-105 C)

Batch: BFE0151

Date: 5/4/2017 16:04

Analyst: YL

Drying Oven: 15

Analytical Balance: B139298002

Instrumentation

Batch drying time

record times as mm/dd/yy hh:mm	5/8/2017 16:55
date/time in oven:	5/9/2017 7:29
date/time out:	
elapsed hrs:	14.6

TS (%) calculated as:

Final dry wt (g) = (Dry Wt - Tare Wt)

TS = (Final Dry Wt X 100)/(sample & dish -dish tare)

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
17D0421-01	1.1700	6.8800	2.1400	0.97	16.99%	No
17D0421-02	1.1800	6.4100	1.8200	0.64	12.24%	No
17D0421-03	1.1800	6.2400	1.7500	0.57	11.26%	No
17D0421-04	1.1800	6.3600	1.9000	0.72	13.90%	No
17D0421-05	1.1700	6.3100	1.8800	0.71	13.81%	No
17D0421-06	1.1700	6.3000	1.7600	0.59	11.50%	No
17D0421-07	1.1700	6.2500	1.8900	0.72	14.17%	No
17D0421-08	1.1700	6.3000	2.1500	0.98	19.10%	No
17D0421-09	1.1700	6.5600	2.3200	1.15	21.34%	No
17D0421-10	1.1700	6.3700	2.3000	1.13	21.73%	No
17E0012-01	1.1700	6.3100	1.8400	0.67	13.04%	No
17E0012-02	1.1800	6.7300	1.7300	0.55	9.91%	No
17E0012-03	1.1800	6.2900	1.8500	0.67	13.11%	No
17E0012-04	1.1700	6.3200	1.8900	0.72	13.98%	No
17E0012-05	1.1700	6.4700	1.9300	0.76	14.34%	No
17E0012-06	1.1700	6.2900	1.7300	0.56	10.94%	No

TOTAL SOLIDS BENCHSHEET

Method: PSEP 1986
(dry at 103-105 C)

Instrumentation

Batch: BFE0151
Date: 5/4/2017, 16:04
Analyst: *AP*
Drying Oven: *Φ15*
Analytical Balance: *B139298462*

Batch drying time
record times as mm/dd/yy hh:mm
date/time in oven: *05/08/17 16:55*
date/time out: *5/9/17 07:29*
elapsed hrs: 0.0

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt X 100)/(sample & dish -dish tare)

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
17D0421-01	1.17	6.88	2.14			No
17D0421-02	1.18	6.41	1.82			No
17D0421-03	1.18	6.24	1.75			No
17D0421-04	1.18	6.36	1.90			No
17D0421-05	1.17	6.31	1.88			No
17D0421-06	1.17	6.36	1.76			No
17D0421-07	1.17	6.25	1.89			No
17D0421-08	1.17	6.36	2.15			No
17D0421-09	1.17	6.56	2.32			No
17D0421-10	1.17	6.37	2.30			No
17E0012-01	1.17	6.31	1.84			No
17E0012-02	1.18	6.73	1.73			No
17E0012-03	1.18	6.29	1.85			No
17E0012-04	1.17	6.32	1.89			No
17E0012-05	1.17	6.47	1.93			No
17E0012-06	1.17	6.29	1.73			No



HOLDING TIME SUMMARY

Analysis: SM 2540 G-97

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

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-PJ-OYS-COC-170427 17E0012-01	04/27/17 13:00	04/29/17 10:00	05/04/17 15:03	7	365	05/04/17 16:04	7	365	
PG-PJ-COC-COC-170427 17E0012-02	04/27/17 12:45	04/29/17 10:00	05/04/17 15:03	7	365	05/04/17 16:04	7	365	
PG-PJ-LTN-COC-170427 17E0012-03	04/27/17 13:30	04/29/17 10:00	05/04/17 15:03	7	365	05/04/17 16:04	7	365	
PG-PJ-MAN-COC-170427 17E0012-04	04/27/17 12:00	04/29/17 10:00	05/04/17 15:03	7	365	05/04/17 16:04	7	365	
PG-PJ-HC-COC-170428 17E0012-05	04/28/17 13:30	04/29/17 10:00	05/04/17 15:03	6	365	05/04/17 16:04	6	365	
PG-PJ-MUS-COC-170427 17E0012-06	04/27/17 12:30	04/29/17 10:00	05/04/17 15:03	7	365	05/04/17 16:04	7	365	

* Indicates hold time exceedance.



METHOD DETECTION AND REPORTING LIMITS

SM 2540 G-97

Laboratory: Analytical Resources, Inc.

SDG: 17E0012

Client: Anchor QEA, LLC

Project: Port Gamble Shellfish Monitoring

Matrix: Tissue

Instrument:

Analyte	MDL	RL	Units
Total Solids		0.0400	%



Prepared for: Anchor QEA, LLC

Project: Port Gamble Bay Shellfish Monitoring

Analytical Data Package

Analysis: PCB Congeners by EPA 1668A

Maxxam Job #: B795167

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com



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13. *5.2 QA/QC Information Confirmation
14. *5.3 Sample Chromatograms Confirmation
15. Last Page

*Please note sections 5.0-5.3 will not be present if confirmations were not required



I hereby certify that to the best of my knowledge all analytical data presented in this report:

- Has been checked for completeness.
- Is accurate, legible and error free.
- Has been conducted in accordance with approved SOP's and that all deviations are clearly listed in the Case Narrative.
- This report has been generated in .pdf format.

Review Performed By:

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Glossary of Terms

- **Detection Limit (DL)** this can also be called **Method Detection Limit (MDL)**: The lowest concentration or amount of the target analyte that can be identified, measured, and reported with confidence that the analyte concentration is not a false positive value. (Clarification): The smallest analyte concentration that can be demonstrated to be different from zero or a blank concentration at the 99% level of confidence. At the DL, the false positive rate (Type I error) is 1%.
- **Limit of Detection (LOD)**: An estimate of the minimum amount of a substance that an analytical process can reliably detect. An LOD is analyte- and matrix-specific and may be laboratory-dependent. (Clarification): The smallest amount or concentration of a substance that must be present in a sample in order to be detected at a high level of confidence (99%). At the LOD, the false negative rate (Type II error) is 1%.
- **Limits of Quantitation (LOQ)** this can also be called **Reporting Detection Limit (RDL)**: The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. (Clarification): The lowest concentration that produces a quantitative result within specified limits of precision and bias. For DoD projects, the LOQ shall be set at or above the concentration of the lowest initial calibration standard.
- **Estimated Detection Limit (EDL)**: The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. The EDL is generally 5 to 10 times the MDL or for High Resolution GC/MS it is method specified as 2.5 times the signal to noise ratio (S/N). For many analytes the EDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. Sample EDL's are highly matrix dependent. The EDL's in SW-846 are provided for guidance and may not always be achievable.
- **Acceptance Criteria** are values used by the laboratory to determine that a process is in control.
- **Accuracy** is the degree of agreement of a measured value with the true or expected value.
- **Calibration Standards** are a set of solutions containing the analytes of interest at a specified concentration.

- **Calibration Verification Standard** consists of a calibration standard solution of intermediate concentration (mid-point initial calibration level) used to assess whether the initial calibration is still valid
- **Certified Reference Material** is a stable homogenous material that is certified by repetitive analysis from a supplier who is certified to generate said materials.
- **Internal Standard** a deuterated or ^{13}C -labelled analyte that is added to a sample extract prior to instrumental analysis to compensate for injection variability.
- **Isomer** is a member of a group of compounds that differ from each other only in the locations of a specific number of common substituent atoms or groups of atoms on the parent compound.
- **Method Blank** is a laboratory control sample using reagents that are known to be free of contamination.
- **Precision** is the degree of agreement between the data generated from repetitive measurements under specific conditions.
- **Quality Assurance** is a system of activities whose purpose is to provide the producer or user of a product with the assurance that the product meets a defined standard of quality.
- **Quality Control** is the overall system of activities whose purpose is to control the quality of a product so that it meets the needs of the end user.
- **RSD** is the relative standard deviation.
- **Blank Spike** is a laboratory control sample that has been fortified with native analytes of interest.
- **Window Defining Mixture** is a solution containing only the earliest and latest eluting congeners within each homologous group of target analytes on a specified GC column.
- **RPD** or Relative Percent Difference. A measure used to compare duplicate sample analysis.
- **EMPC/NDR** – Peak detected does not meet ratio criteria and has resulted in a higher detection limit.



1.0 Project Narrative

Maxxam Analytics International
6740 Campobello Rd.
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PROJECT NARRATIVE

Maxxam Analytics
Client Project #: PORT GAMBLE



Client: Anchor QEA, LLC
Client Project: PORT GAMBLE

I. SAMPLE RECEIPT/ANALYSIS

a) Sample Listing

Maxxam ID	Client Sample ID	Date Sampled	Date Received	Date Prepped	Date Run	Initial Calibration
PCB Congeners in Tissue (1668A)						
EIY560	PG-GP-OYS-COC-170424	2017/04/24	2017/05/10	2017/05/30	2017/06/09	2017/05/17
EIY561	PG-GP-COC-COC-170424	2017/04/24	2017/05/10	2017/05/30	2017/06/09	2017/05/17
EIY562	PG-GP-LTN-COC-170424	2017/04/24	2017/05/10	2017/05/30	2017/06/09	2017/05/17
EIY563	PG-WS-OYS-COC-170424	2017/04/24	2017/05/10	2017/05/30	2017/06/09	2017/05/17
EIY564	PG-WS-COC-COC-170425	2017/04/25	2017/05/10	2017/05/30	2017/06/08	2017/04/19
EIY565	PG-WS-LTN-COC-170424	2017/04/24	2017/05/10	2017/05/30	2017/06/09	2017/05/17
EIY565 Dup	PG-WS-LTN-COC-170424	2017/04/24	2017/05/10	2017/05/30	2017/06/09	2017/05/17
EIY566	PG-WS-MAN-COC-170424	2017/04/24	2017/05/10	2017/05/30	2017/06/08	2017/04/19
EIY567	PG-SMA3-GEO-COC-170426	2017/04/26	2017/05/10	2017/05/30	2017/06/08	2017/04/19
EIY568	PG-SMA3-DUNM-COC-170426	2017/04/26	2017/05/10	2017/05/30	2017/06/08	2017/04/19
EIY569	PG-SMA3-DUNH-COC-170426	2017/04/26	2017/05/10	2017/05/30	2017/06/09	2017/04/19
EIY570	PG-PJ-OYS-COC-170427	2017/04/27	2017/05/10	2017/05/30	2017/06/09	2017/04/19
EIY571	PG-PJ-COC-COC-170427	2017/04/27	2017/05/10	2017/05/30	2017/06/09	2017/05/17
EIY572	PG-PJ-LTN-COC-170427	2017/04/27	2017/05/10	2017/05/30	2017/06/09	2017/05/17
EIY573	PG-PJ-MAN-COC-170427	2017/04/27	2017/05/10	2017/05/30	2017/06/09	2017/04/19
EIY574	PG-PJ-HC-COC-170428	2017/04/28	2017/05/10	2017/05/30	2017/06/09	2017/05/17
EIY575	PG-PJ-MUS-COC-170427	2017/04/27	2017/05/10	2017/05/30	2017/06/09	2017/05/17

Run Date is defined as the date of injection of the last calibration standard (12 hours or less) prior to the samples analyzed within that run sequence. Therefore the time of calibration injection that defines the run date is always within 12 hours of the time of sample injection.

b) Shipping Problems: none encountered

c) Documentation Problems: none encountered

II. SAMPLE PREP:

No problems encountered

III. SAMPLE ANALYSIS:

See also comments within the appropriate Certificate of Analysis

a) Hold Times: all within recommended hold times

b) Instrument Calibration: all within control limits

c) Quality Control: All applicable QC meets control criteria, except where otherwise noted.

d) All analytes requiring manual intergration(s) are noted on the sample chromatograms

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for other than the conditions detailed above.

In addition, I certify, that to the best of my knowledge and belief, the data as reported are true and accurate. Release of the data contained in this data package has been authorized by the cognizant laboratory official or his/her designee, as verified by this signature.

M Di Grazia
Supervisor- Environmental Customer Service

2017/06/22
Date



2.0 Summary Report

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Your Project #: PORT GAMBLE
 Site#: PORT GAMBLE
 Your C.O.C. #: na

Attention:Anchor QEA Reporting Group

Anchor QEA, LLC
 720 Olive Way, Suite 1900
 Seattle, WA
 USA 98101

Report Date: 2017/06/14
 Report #: R4522359
 Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B795167

Received: 2017/05/10, 16:04

Sample Matrix: TISSUE
 # Samples Received: 16

Analyses	Quantity	Date	Date	Laboratory Method	Reference
		Extracted	Analyzed		
PCB Congeners in Tissue (1668A)	4	2017/05/30	2017/06/08	BRL SOP-00408 BRL SOP-00409	EPA 1668A m
PCB Congeners in Tissue (1668A)	12	2017/05/30	2017/06/09	BRL SOP-00408 BRL SOP-00409	EPA 1668A m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

U = Undetected at the limit of quantitation.

J = Estimated concentration between the EDL & RDL.

B = Blank Contamination.

Q = One or more quality control criteria failed.

E = Analyte concentration exceeds the maximum concentration level.

K = Estimated maximum possible concentration due to ion abundance ratio failure.

Your Project #: PORT GAMBLE
Site#: PORT GAMBLE
Your C.O.C. #: na

Attention:Anchor QEA Reporting Group

Anchor QEA, LLC
720 Olive Way, Suite 1900
Seattle, WA
USA 98101

Report Date: 2017/06/14
Report #: R4522359
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B795167

Received: 2017/05/10, 16:04

Encryption Key  Stephanie Pollen
Project Manager
14 Jun 2017 09:25:24

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Melissa DiGrazia, Supervisor –Environmental Customer Service

Email: MDiGrazia@maxxam.ca

Phone# (905) 817-5700

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY560							
Sampling Date		2017/04/24 10:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-GP-OYS-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch

PCBs									
2-MonoCB-(1)	ng/g	0.0022 U	0.0022	0.0099	N/A	N/A	N/A	N/A	5019849
3-MonoCB-(2)	ng/g	0.0019 U	0.0019	0.0099	N/A	N/A	N/A	N/A	5019849
4-MonoCB-(3)	ng/g	0.0022 U	0.0022	0.0099	N/A	N/A	N/A	N/A	5019849
2,2'-DiCB-(4)	ng/g	0.0050 U	0.0050	0.0099	N/A	N/A	N/A	N/A	5019849
2,3'-DiCB-(5)	ng/g	0.0017 U	0.0017	0.0099	N/A	N/A	N/A	N/A	5019849
2,3'-DiCB-(6)	ng/g	0.0014 U	0.0014	0.0099	N/A	N/A	N/A	N/A	5019849
2,4'-DiCB-(7)	ng/g	0.0014 U	0.0014	0.0099	N/A	N/A	N/A	N/A	5019849
2,4'-DiCB-(8)	ng/g	0.0022 UQ (1)	0.0022	0.0099	N/A	N/A	N/A	N/A	5019849
2,5'-DiCB-(9)	ng/g	0.0013 U	0.0013	0.0099	N/A	N/A	N/A	N/A	5019849
2,6'-DiCB-(10)	ng/g	0.0048 U	0.0048	0.0099	N/A	N/A	N/A	N/A	5019849
3,3'-DiCB-(11)	ng/g	0.0163	0.0014	0.0099	N/A	N/A	N/A	N/A	5019849
DiCB-(12)+(13)	ng/g	0.0014 U	0.0014	0.020	N/A	N/A	N/A	N/A	5019849
3,5'-DiCB-(14)	ng/g	0.0013 U	0.0013	0.0099	N/A	N/A	N/A	N/A	5019849
4,4'-DiCB-(15)	ng/g	0.0022 U	0.0022	0.0099	N/A	N/A	N/A	N/A	5019849
2,2',3'-TriCB-(16)	ng/g	0.0033 U	0.0033	0.0099	N/A	N/A	N/A	N/A	5019849
2,2',4'-TriCB-(17)	ng/g	0.0034 J	0.0028	0.0099	N/A	N/A	N/A	N/A	5019849
TriCB-(18)+(30)	ng/g	0.0064 U (1)	0.0064	0.020	N/A	N/A	N/A	N/A	5019849
2,2',6'-TriCB-(19)	ng/g	0.0023 U	0.0023	0.0099	N/A	N/A	N/A	N/A	5019849
TriCB-(20) + (28)	ng/g	0.0291	0.00060	0.020	N/A	N/A	N/A	N/A	5019849
TriCB-(21)+(33)	ng/g	0.00666 J	0.00060	0.020	N/A	N/A	N/A	N/A	5019849
2,3,4'-TriCB-(22)	ng/g	0.00694 J	0.00065	0.0099	N/A	N/A	N/A	N/A	5019849
2,3,5'-TriCB-(23)	ng/g	0.00064 U	0.00064	0.0099	N/A	N/A	N/A	N/A	5019849
2,3,6'-TriCB-(24)	ng/g	0.0021 U	0.0021	0.0099	N/A	N/A	N/A	N/A	5019849
2,3',4'-TriCB-(25)	ng/g	0.0017 U (1)	0.0017	0.0099	N/A	N/A	N/A	N/A	5019849
TriCB-(26)+(29)	ng/g	0.00337 J	0.00060	0.020	N/A	N/A	N/A	N/A	5019849
2,3',6'-TriCB-(27)	ng/g	0.0020 U	0.0020	0.0099	N/A	N/A	N/A	N/A	5019849
2,4',5'-TriCB-(31)	ng/g	0.0170 Q	0.00057	0.0099	N/A	N/A	N/A	N/A	5019849
2,4',6'-TriCB-(32)	ng/g	0.0033 J	0.0018	0.0099	N/A	N/A	N/A	N/A	5019849
2,3',5'-TriCB-(34)	ng/g	0.00062 U	0.00062	0.0099	N/A	N/A	N/A	N/A	5019849

EDL = Estimated Detection Limit
RDL = Reportable Detection Limit
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY560							
Sampling Date		2017/04/24 10:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-GP-OYS-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'4'-TriCB-(35)	ng/g	0.00069 U (1)	0.00069	0.0099	N/A	N/A	N/A	N/A	5019849
33'5'-TriCB-(36)	ng/g	0.00185 J	0.00053	0.0099	N/A	N/A	N/A	N/A	5019849
344'-TriCB-(37)	ng/g	0.00471 J	0.00089	0.0099	N/A	N/A	N/A	N/A	5019849
345'-TriCB-(38)	ng/g	0.00060 U	0.00060	0.0099	N/A	N/A	N/A	N/A	5019849
34'5'-TriCB-(39)	ng/g	0.00059 U	0.00059	0.0099	N/A	N/A	N/A	N/A	5019849
TetraCB-(40)+(41)+(71)	ng/g	0.0246 J	0.00065	0.030	N/A	N/A	N/A	N/A	5019849
22'34'-TetraCB-(42)	ng/g	0.0152	0.00074	0.0099	N/A	N/A	N/A	N/A	5019849
22'35'-TetraCB-(43)	ng/g	0.0019 U (1)	0.0019	0.0099	N/A	N/A	N/A	N/A	5019849
TetraCB-(44)+(47)+(65)	ng/g	0.0589	0.00059	0.030	N/A	N/A	N/A	N/A	5019849
TetraCB-(45)+(51)	ng/g	0.0052 UQ (1)	0.0052	0.020	N/A	N/A	N/A	N/A	5019849
22'36'-TetraCB-(46)	ng/g	0.00209 J	0.00077	0.0099	N/A	N/A	N/A	N/A	5019849
22'45'-TetraCB-(48)	ng/g	0.00778 J	0.00064	0.0099	N/A	N/A	N/A	N/A	5019849
TetraCB-(49)+TetraCB-(69)	ng/g	0.0446	0.00057	0.020	N/A	N/A	N/A	N/A	5019849
TetraCB-(50)+(53)	ng/g	0.00631 J	0.00064	0.020	N/A	N/A	N/A	N/A	5019849
22'55'-TetraCB-(52)	ng/g	0.0860 Q	0.00060	0.0099	N/A	N/A	N/A	N/A	5019849
22'66'-TetraCB-(54)	ng/g	0.00066 U	0.00066	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'-TetraCB-(55)	ng/g	0.00091 U	0.00091	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'-Tetra CB(56)	ng/g	0.0135 Q	0.00089	0.0099	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(57)	ng/g	0.00084 U	0.00084	0.0099	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(58)	ng/g	0.00090 U	0.00090	0.0099	N/A	N/A	N/A	N/A	5019849
TetraCB-(59)+(62)+(75)	ng/g	0.00564 J	0.00049	0.030	N/A	N/A	N/A	N/A	5019849
2344'-TetraCB -(60)	ng/g	0.00909 J	0.00091	0.0099	N/A	N/A	N/A	N/A	5019849
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.0821	0.00086	0.040	N/A	N/A	N/A	N/A	5019849
234'5'-TetraCB-(63)	ng/g	0.00194 JQ	0.00081	0.0099	N/A	N/A	N/A	N/A	5019849
234'6'-TetraCB-(64)	ng/g	0.0241	0.00053	0.0099	N/A	N/A	N/A	N/A	5019849
23'44'-TetraCB-(66)	ng/g	0.0389	0.00084	0.0099	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(67)	ng/g	0.00170 J	0.00081	0.0099	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(68)	ng/g	0.00214 J	0.00082	0.0099	N/A	N/A	N/A	N/A	5019849
23'55'-TetraCB-(72)	ng/g	0.00123 J	0.00081	0.0099	N/A	N/A	N/A	N/A	5019849
23'5'6'-TetraCB-(73)	ng/g	0.00046 U	0.00046	0.0099	N/A	N/A	N/A	N/A	5019849

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QC Batch = Quality Control Batch

N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY560							
Sampling Date		2017/04/24 10:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-GP-OYS-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'44'-TetraCB-(77)	ng/g	0.0050 J	0.0011	0.0099	N/A	0.000100	0.000000500	N/A	5019849
33'45'-TetraCB-(78)	ng/g	0.00083 U	0.00083	0.0099	N/A	N/A	N/A	N/A	5019849
33'45'-TetraCB(79)	ng/g	0.00209 J	0.00075	0.0099	N/A	N/A	N/A	N/A	5019849
33'55'-TetraCB-(80)	ng/g	0.00076 U	0.00076	0.0099	N/A	N/A	N/A	N/A	5019849
344'5'-TetraCB-(81)	ng/g	0.0011 U	0.0011	0.0099	N/A	0.000300	0.000000330	N/A	5019849
22'33'4-PentaCB-(82)	ng/g	0.00949 JQ	0.00094	0.0099	N/A	N/A	N/A	N/A	5019849
PentaCB-(83)+(99)	ng/g	0.162	0.00083	0.020	N/A	N/A	N/A	N/A	5019849
22'33'6-PentaCB-(84)	ng/g	0.0261	0.00094	0.0099	N/A	N/A	N/A	N/A	5019849
PentaCB-(85)+(116)+(117)	ng/g	0.0269 J	0.00068	0.030	N/A	N/A	N/A	N/A	5019849
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.0941	0.00073	0.060	N/A	N/A	N/A	N/A	5019849
PentaCB-(88)+(91)	ng/g	0.0236	0.00085	0.020	N/A	N/A	N/A	N/A	5019849
22'346'-PentaCB-(89)	ng/g	0.00138 J	0.00088	0.0099	N/A	N/A	N/A	N/A	5019849
PentaCB-(90)+(101)+(113)	ng/g	0.210	0.00074	0.030	N/A	N/A	N/A	N/A	5019849
22'355'-PentaCB-(92)	ng/g	0.0404 Q	0.00085	0.0099	N/A	N/A	N/A	N/A	5019849
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.00910 J	0.00087	0.040	N/A	N/A	N/A	N/A	5019849
22'356'-PentaCB-(94)	ng/g	0.0011 U (1)	0.0011	0.0099	N/A	N/A	N/A	N/A	5019849
22'35'6-PentaCB-(95)	ng/g	0.116 Q	0.00080	0.0099	N/A	N/A	N/A	N/A	5019849
22'366'-PentaCB-(96)	ng/g	0.00067 U	0.00067	0.0099	N/A	N/A	N/A	N/A	5019849
22'45'6-PentaCB-(103)	ng/g	0.0032 U (1)	0.0032	0.0099	N/A	N/A	N/A	N/A	5019849
22'466'-PentaCB-(104)	ng/g	0.00046 U	0.00046	0.0099	N/A	N/A	N/A	N/A	5019849
233'44'-PentaCB-(105)	ng/g	0.0471	0.00064	0.0099	N/A	0.0000300	0.00000141	N/A	5019849
233'45'-PentaCB-(106)	ng/g	0.00051 U	0.00051	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'5-PentaCB-(107)	ng/g	0.0172	0.00053	0.0099	N/A	N/A	N/A	N/A	5019849
PentaCB-(108)+(124)	ng/g	0.00583 J	0.00055	0.020	N/A	N/A	N/A	N/A	5019849
PentaCB-(110)+(115)	ng/g	0.165	0.00067	0.020	N/A	N/A	N/A	N/A	5019849
233'55'-PentaCB-(111)	ng/g	0.00070 J	0.00063	0.0099	N/A	N/A	N/A	N/A	5019849
233'56'-PentaCB-(112)	ng/g	0.00069 U	0.00069	0.0099	N/A	N/A	N/A	N/A	5019849
2344'5-PentaCB-(114)	ng/g	0.00242 J	0.00064	0.0099	N/A	0.0000300	0.0000000726	N/A	5019849
23'44'5-PentaCB-(118)	ng/g	0.168	0.00063	0.0099	N/A	0.0000300	0.00000504	N/A	5019849
23'455'-PentaCB-(120)	ng/g	0.0016 U (1)	0.0016	0.0099	N/A	N/A	N/A	N/A	5019849

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N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY560							
Sampling Date		2017/04/24 10:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-GP-OYS-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'45'6'-PentaCB-(121)	ng/g	0.00065 U	0.00065	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(122)	ng/g	0.00141 J	0.00056	0.0099	N/A	N/A	N/A	N/A	5019849
23'44'5'-PentaCB-(123)	ng/g	0.00193 J	0.00071	0.0099	N/A	0.0000300	0.0000000579	N/A	5019849
33'44'5'-PentaCB-(126)	ng/g	0.00060 U	0.00060	0.0099	N/A	0.100	0.0000600	N/A	5019849
33'455'-PentaCB-(127)	ng/g	0.00052 U	0.00052	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(128)+(166)	ng/g	0.0325	0.0015	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(129)+(138)+(163)	ng/g	0.382 Q	0.0016	0.030	N/A	N/A	N/A	N/A	5019849
22'33'45'-HexaCB-(130)	ng/g	0.0133	0.0018	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(131)	ng/g	0.0023 U (1)	0.0023	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(132)	ng/g	0.0898	0.0019	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'55'-HexaCB-(133)	ng/g	0.0097 U (1)	0.0097	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(134)+(143)	ng/g	0.0125 J	0.0019	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(135)+(151)	ng/g	0.151	0.00098	0.020	N/A	N/A	N/A	N/A	5019849
22'33'66'-HexaCB-(136)	ng/g	0.0355	0.00071	0.0099	N/A	N/A	N/A	N/A	5019849
22'344'5'-HexaCB-(137)	ng/g	0.0059 J	0.0018	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(139)+(140)	ng/g	0.0075 J	0.0017	0.020	N/A	N/A	N/A	N/A	5019849
22'3455'-HexaCB-(141)	ng/g	0.0208	0.0018	0.0099	N/A	N/A	N/A	N/A	5019849
22'3456'-HexaCB-(142)	ng/g	0.0019 U	0.0019	0.0099	N/A	N/A	N/A	N/A	5019849
22'345'6'-HexaCB-(144)	ng/g	0.0110	0.00096	0.0099	N/A	N/A	N/A	N/A	5019849
22'3466'-HexaCB-(145)	ng/g	0.00076 U	0.00076	0.0099	N/A	N/A	N/A	N/A	5019849
22'34'55'-HexaCB-(146)	ng/g	0.107 Q	0.0016	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(147)+(149)	ng/g	0.353	0.0016	0.020	N/A	N/A	N/A	N/A	5019849
22'34'56'-HexaCB-(148)	ng/g	0.00219 J	0.00095	0.0099	N/A	N/A	N/A	N/A	5019849
22'34'66'-HexaCB-(150)	ng/g	0.00179 J	0.00069	0.0099	N/A	N/A	N/A	N/A	5019849
22'3566'-HexaCB-(152)	ng/g	0.00071 U	0.00071	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(153)+(168)	ng/g	0.642 B	0.0013	0.0099	N/A	N/A	N/A	N/A	5019849
22'44'56'-HexaCB-(154)	ng/g	0.0182	0.00086	0.0099	N/A	N/A	N/A	N/A	5019849
22'44'66'-HexaCB-(155)	ng/g	0.00053 U	0.00053	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(156)+(157)	ng/g	0.0113 JQ	0.0011	0.020	N/A	0.0000300	0.000000339	N/A	5019849
233'44'6'-HexaCB-(158)	ng/g	0.0137 Q	0.0012	0.0099	N/A	N/A	N/A	N/A	5019849

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N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY560							
Sampling Date		2017/04/24 10:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-GP-OYS-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'455'-HexaCB-(159)	ng/g	0.00093 U	0.00093	0.0099	N/A	N/A	N/A	N/A	5019849
233'456'-HexaCB-(160)	ng/g	0.0014 U	0.0014	0.0099	N/A	N/A	N/A	N/A	5019849
233'45'6'-HexaCB-(161)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'55'-HexaCB-(162)	ng/g	0.00144 J	0.00094	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'5'6'-HexaCB-(164)	ng/g	0.0203	0.0012	0.0099	N/A	N/A	N/A	N/A	5019849
233'55'6'-HexaCB-(165)	ng/g	0.0013 U	0.0013	0.0099	N/A	N/A	N/A	N/A	5019849
23'44'55'-HexaCB-(167)	ng/g	0.0103	0.0010	0.0099	N/A	0.0000300	0.000000309	N/A	5019849
33'44'55'-HexaCB-(169)	ng/g	0.0011 U	0.0011	0.0099	N/A	0.0300	0.0000330	N/A	5019849
22'33'44'5'-HeptaCB-(170)	ng/g	0.0059 UQ (1)	0.0059	0.0099	N/A	N/A	N/A	N/A	5019849
HeptaCB-(171)+(173)	ng/g	0.0162 J (2)	0.0048	0.099	N/A	N/A	N/A	N/A	5019849
22'33'455'-HeptaCB-(172)	ng/g	0.0047 U (2)	0.0047	0.050	N/A	N/A	N/A	N/A	5019849
22'33'456'-HeptaCB-(174)	ng/g	0.0045 U (2)	0.0045	0.050	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(175)	ng/g	0.0040 U (2)	0.0040	0.050	N/A	N/A	N/A	N/A	5019849
22'33'466'-HeptaCB-(176)	ng/g	0.0069 U (3)	0.0069	0.050	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(177)	ng/g	0.0483 JQ (2)	0.0046	0.050	N/A	N/A	N/A	N/A	5019849
22'33'55'6'-HeptaCB-(178)	ng/g	0.0330 JQ (2)	0.0042	0.050	N/A	N/A	N/A	N/A	5019849
22'33'566'-HeptaCB-(179)	ng/g	0.0294 J (2)	0.0029	0.050	N/A	N/A	N/A	N/A	5019849
HeptaCB-(180)+(193)	ng/g	0.0501 J (2)	0.0035	0.099	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(181)	ng/g	0.0046 U (2)	0.0046	0.050	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(182)	ng/g	0.0041 U (2)	0.0041	0.050	N/A	N/A	N/A	N/A	5019849
22'344'5'6'-HeptaCB-(183)	ng/g	0.0328 JQ (2)	0.0040	0.050	N/A	N/A	N/A	N/A	5019849
22'344'66'-HeptaCB-(184)	ng/g	0.0031 U (2)	0.0031	0.050	N/A	N/A	N/A	N/A	5019849
22'3455'6'-HeptaCB-(185)	ng/g	0.0050 U (2)	0.0050	0.050	N/A	N/A	N/A	N/A	5019849
22'34566'-HeptaCB-(186)	ng/g	0.0033 U (2)	0.0033	0.050	N/A	N/A	N/A	N/A	5019849
22'34'55'6'-HeptaCB-(187)	ng/g	0.177 Q (2)	0.0040	0.050	N/A	N/A	N/A	N/A	5019849
22'34'566'-HeptaCB-(188)	ng/g	0.0012 U (1)	0.0012	0.0099	N/A	N/A	N/A	N/A	5019849
233'44'55'-HeptaCB-(189)	ng/g	0.0011 U	0.0011	0.050	N/A	0.0000300	0.000000330	N/A	5019849

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N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

(2) ** From 5X Dilution **

(3) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

** From 5X Dilution **

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY560							
Sampling Date		2017/04/24 10:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-GP-OYS-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'44'56-HeptaCB-(190)	ng/g	0.0035 U (1)	0.0035	0.050	N/A	N/A	N/A	N/A	5019849
233'44'5'6-HeptaCB-(191)	ng/g	0.0034 U (1)	0.0034	0.050	N/A	N/A	N/A	N/A	5019849
233'455'6-HeptaCB-(192)	ng/g	0.0039 U (1)	0.0039	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'55'-OctaCB-(194)	ng/g	0.0034 U (1)	0.0034	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(195)	ng/g	0.0035 U (1)	0.0035	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(196)	ng/g	0.0056 U (1)	0.0056	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'66'-OctaCB-(197)	ng/g	0.0043 U (1)	0.0043	0.050	N/A	N/A	N/A	N/A	5019849
OctaCB-(198)+(199)	ng/g	0.0059 U (1)	0.0059	0.099	N/A	N/A	N/A	N/A	5019849
22'33'4566'-OctaCB-(200)	ng/g	0.0045 U (1)	0.0045	0.050	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(201)	ng/g	0.0067 J (1)	0.0043	0.050	N/A	N/A	N/A	N/A	5019849
22'33'55'66'-OctaCB-(202)	ng/g	0.0193 J (1)	0.0045	0.050	N/A	N/A	N/A	N/A	5019849
22'344'55'6-OctaCB-(203)	ng/g	0.0056 U (1)	0.0056	0.050	N/A	N/A	N/A	N/A	5019849
22'344'566'-OctaCB-(204)	ng/g	0.0044 U (1)	0.0044	0.050	N/A	N/A	N/A	N/A	5019849
233'44'55'6-OctaCB-(205)	ng/g	0.00058 U	0.00058	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'44'55'6-NonaCB-(206)	ng/g	0.0019 U	0.0019	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'44'566'-NonaCB-(207)	ng/g	0.0015 U	0.0015	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'455'66'-NonaCB-(208)	ng/g	0.0018 U	0.0018	0.0099	N/A	N/A	N/A	N/A	5019849
DecaCB-(209)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	5019849
Total PCB	ng/g	4.01	N/A	N/A	N/A	N/A	N/A	N/A	5019849
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.000101	N/A	N/A
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	74	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'55'6-NonaCB-(206)	%	88	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'5-HeptaCB-(170)	%	143 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'455'66'-NonaCB-(208)	%	122	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'66'-OctaCB-(202)	%	98 Q (1)	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'6-HeptaCB-(178)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'344'55'-HeptaCB-(180)	%	99 Q (1)	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'34'566'-HeptaCB-(188)	%	106	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'44'66'-HexaCB-(155)	%	103	N/A	N/A	N/A	N/A	N/A	N/A	5019849
EDL = Estimated Detection Limit RDL = Reportable Detection Limit TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient, The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested. WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds QC Batch = Quality Control Batch N/A = Not Applicable (1) ** From 5X Dilution **									

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY560							
Sampling Date		2017/04/24 10:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-GP-OYS-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-22'466'-PentaCB-(104)	%	87	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'66'-TetraCB-(54)	%	55	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'6-TriCB-(19)	%	46	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'-DiCB-(4)	%	38	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'6-OctaCB-(205)	%	95	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'-HeptaCB-(189)	%	110	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'-PentaCB-(105)	%	99	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'55'-PentaCB-(111)	%	101	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'55'-HexaCB-(167)	%	90	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2344'5-PentaCB-(114)	%	99	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'5-PentaCB-(118)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2'344'5-PentaCB-(123)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2-MonoCB-(1)	%	32	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'55'-HexaCB-(169)	%	34	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'5-PentaCB-(126)	%	89	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'-TetraCB-(77)	%	88	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'5-TetraCB-(81)	%	88	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'-TriCB-(37)	%	80	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-44'-DiCB-(15)	%	60	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-4-MonoCB-(3)	%	35	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-DecaCB-(209)	%	77	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-HexaCB-(156)+(157)	%	76	N/A	N/A	N/A	N/A	N/A	N/A	5019849

EDL = Estimated Detection Limit
RDL = Reportable Detection Limit
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
QC Batch = Quality Control Batch
N/A = Not Applicable

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY561							
Sampling Date		2017/04/24 10:45							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-GP-COC-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
PCBs									
2-MonoCB-(1)	ng/g	0.0012 U	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
3-MonoCB-(2)	ng/g	0.0010 U	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
4-MonoCB-(3)	ng/g	0.0012 U	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
22'-DiCB-(4)	ng/g	0.0038 U	0.0038	0.010	N/A	N/A	N/A	N/A	5019849
2,3-DiCB-(5)	ng/g	0.0021 U	0.0021	0.010	N/A	N/A	N/A	N/A	5019849
2,3'-DiCB-(6)	ng/g	0.0016 U	0.0016	0.010	N/A	N/A	N/A	N/A	5019849
2,4-DiCB-(7)	ng/g	0.0017 U	0.0017	0.010	N/A	N/A	N/A	N/A	5019849
2,4'-DiCB-(8)	ng/g	0.0014 UQ	0.0014	0.010	N/A	N/A	N/A	N/A	5019849
2,5-DiCB-(9)	ng/g	0.0016 U	0.0016	0.010	N/A	N/A	N/A	N/A	5019849
2,6-DiCB-(10)	ng/g	0.0037 U	0.0037	0.010	N/A	N/A	N/A	N/A	5019849
3,3'-DiCB-(11)	ng/g	0.0075 J	0.0017	0.010	N/A	N/A	N/A	N/A	5019849
DiCB-(12)+(13)	ng/g	0.0017 U	0.0017	0.020	N/A	N/A	N/A	N/A	5019849
3,5-DiCB-(14)	ng/g	0.0016 U	0.0016	0.010	N/A	N/A	N/A	N/A	5019849
4,4'-DiCB-(15)	ng/g	0.0026 U	0.0026	0.010	N/A	N/A	N/A	N/A	5019849
22'3-TriCB-(16)	ng/g	0.0039 U	0.0039	0.010	N/A	N/A	N/A	N/A	5019849
22'4-TriCB-(17)	ng/g	0.0034 U	0.0034	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(18)+(30)	ng/g	0.0028 U	0.0028	0.020	N/A	N/A	N/A	N/A	5019849
22'6-TriCB-(19)	ng/g	0.0027 U	0.0027	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(20) + (28)	ng/g	0.00653 J	0.00039	0.020	N/A	N/A	N/A	N/A	5019849
TriCB-(21)+(33)	ng/g	0.00243 J	0.00039	0.020	N/A	N/A	N/A	N/A	5019849
234'-TriCB-(22)	ng/g	0.00184 J	0.00042	0.010	N/A	N/A	N/A	N/A	5019849
235-TriCB-(23)	ng/g	0.00042 U	0.00042	0.010	N/A	N/A	N/A	N/A	5019849
236-TriCB-(24)	ng/g	0.0026 U	0.0026	0.010	N/A	N/A	N/A	N/A	5019849
23'4-TriCB-(25)	ng/g	0.00039 U	0.00039	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(26)+(29)	ng/g	0.00067 U (1)	0.00067	0.020	N/A	N/A	N/A	N/A	5019849
23'6-TriCB-(27)	ng/g	0.0024 U	0.0024	0.010	N/A	N/A	N/A	N/A	5019849
24'5-TriCB-(31)	ng/g	0.00373 JQ	0.00037	0.010	N/A	N/A	N/A	N/A	5019849
24'6-TriCB-(32)	ng/g	0.0022 U	0.0022	0.010	N/A	N/A	N/A	N/A	5019849
23'5'-TriCB-(34)	ng/g	0.00040 U	0.00040	0.010	N/A	N/A	N/A	N/A	5019849

EDL = Estimated Detection Limit

RDL = Reportable Detection Limit

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The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY561							
Sampling Date		2017/04/24 10:45							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-GP-COC-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'4'-TriCB-(35)	ng/g	0.00040 U	0.00040	0.010	N/A	N/A	N/A	N/A	5019849
33'5'-TriCB-(36)	ng/g	0.00034 U	0.00034	0.010	N/A	N/A	N/A	N/A	5019849
344'-TriCB-(37)	ng/g	0.00119 J	0.00058	0.010	N/A	N/A	N/A	N/A	5019849
345'-TriCB-(38)	ng/g	0.00039 U	0.00039	0.010	N/A	N/A	N/A	N/A	5019849
34'5'-TriCB-(39)	ng/g	0.00038 U	0.00038	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(40)+(41)+(71)	ng/g	0.0045 U (1)	0.0045	0.030	N/A	N/A	N/A	N/A	5019849
22'34'-TetraCB-(42)	ng/g	0.00251 J	0.00071	0.010	N/A	N/A	N/A	N/A	5019849
22'35'-TetraCB-(43)	ng/g	0.00088 U	0.00088	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(44)+(47)+(65)	ng/g	0.0128 J	0.00057	0.030	N/A	N/A	N/A	N/A	5019849
TetraCB-(45)+(51)	ng/g	0.0011 UQ (1)	0.0011	0.020	N/A	N/A	N/A	N/A	5019849
22'36'-TetraCB-(46)	ng/g	0.00074 U	0.00074	0.010	N/A	N/A	N/A	N/A	5019849
22'45'-TetraCB-(48)	ng/g	0.00162 J	0.00062	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(49)+TetraCB-(69)	ng/g	0.00482 J	0.00055	0.020	N/A	N/A	N/A	N/A	5019849
TetraCB-(50)+(53)	ng/g	0.00100 J	0.00061	0.020	N/A	N/A	N/A	N/A	5019849
22'55'-TetraCB-(52)	ng/g	0.0133 Q	0.00058	0.010	N/A	N/A	N/A	N/A	5019849
22'66'-TetraCB-(54)	ng/g	0.00061 U	0.00061	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-TetraCB-(55)	ng/g	0.00058 U	0.00058	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-Tetra CB(56)	ng/g	0.0023 UQ (1)	0.0023	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(57)	ng/g	0.00053 U	0.00053	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(58)	ng/g	0.00057 U	0.00057	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(59)+(62)+(75)	ng/g	0.00073 U (1)	0.00073	0.030	N/A	N/A	N/A	N/A	5019849
2344'-TetraCB -(60)	ng/g	0.00164 J	0.00058	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.0132 J	0.00055	0.040	N/A	N/A	N/A	N/A	5019849
234'5'-TetraCB-(63)	ng/g	0.00051 UQ	0.00051	0.010	N/A	N/A	N/A	N/A	5019849
234'6'-TetraCB-(64)	ng/g	0.00385 J	0.00051	0.010	N/A	N/A	N/A	N/A	5019849
23'44'-TetraCB-(66)	ng/g	0.00765 J	0.00053	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(67)	ng/g	0.00052 U	0.00052	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(68)	ng/g	0.00124 J	0.00052	0.010	N/A	N/A	N/A	N/A	5019849
23'55'-TetraCB-(72)	ng/g	0.00052 U	0.00052	0.010	N/A	N/A	N/A	N/A	5019849
23'5'6'-TetraCB-(73)	ng/g	0.00044 U	0.00044	0.010	N/A	N/A	N/A	N/A	5019849

EDL = Estimated Detection Limit

RDL = Reportable Detection Limit

TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,

The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY561							
Sampling Date		2017/04/24 10:45							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-GP-COC-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'44'-TetraCB-(77)	ng/g	0.00072 U	0.00072	0.010	N/A	0.000100	0.0000000720	N/A	5019849
33'45'-TetraCB-(78)	ng/g	0.00053 U	0.00053	0.010	N/A	N/A	N/A	N/A	5019849
33'45'-TetraCB(79)	ng/g	0.00048 U	0.00048	0.010	N/A	N/A	N/A	N/A	5019849
33'55'-TetraCB-(80)	ng/g	0.00048 U	0.00048	0.010	N/A	N/A	N/A	N/A	5019849
344'5'-TetraCB-(81)	ng/g	0.00072 U	0.00072	0.010	N/A	0.000300	0.000000216	N/A	5019849
22'33'4'-PentaCB-(82)	ng/g	0.00227 JQ	0.00067	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(83)+(99)	ng/g	0.0192 J	0.00059	0.020	N/A	N/A	N/A	N/A	5019849
22'33'6'-PentaCB-(84)	ng/g	0.00383 J	0.00067	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(85)+(116)+(117)	ng/g	0.0046 U (1)	0.0046	0.030	N/A	N/A	N/A	N/A	5019849
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.0105 J	0.00052	0.060	N/A	N/A	N/A	N/A	5019849
PentaCB-(88)+(91)	ng/g	0.0019 U (1)	0.0019	0.020	N/A	N/A	N/A	N/A	5019849
22'346'-PentaCB-(89)	ng/g	0.00062 U	0.00062	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(90)+(101)+(113)	ng/g	0.0253 J	0.00053	0.030	N/A	N/A	N/A	N/A	5019849
22'355'-PentaCB-(92)	ng/g	0.00518 JQ	0.00061	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.00061 U	0.00061	0.040	N/A	N/A	N/A	N/A	5019849
22'356'-PentaCB-(94)	ng/g	0.00066 U	0.00066	0.010	N/A	N/A	N/A	N/A	5019849
22'35'6'-PentaCB-(95)	ng/g	0.0107 Q	0.00057	0.010	N/A	N/A	N/A	N/A	5019849
22'366'-PentaCB-(96)	ng/g	0.00034 U	0.00034	0.010	N/A	N/A	N/A	N/A	5019849
22'45'6'-PentaCB-(103)	ng/g	0.00054 U	0.00054	0.010	N/A	N/A	N/A	N/A	5019849
22'466'-PentaCB-(104)	ng/g	0.00023 U	0.00023	0.010	N/A	N/A	N/A	N/A	5019849
233'44'-PentaCB-(105)	ng/g	0.00848 J	0.00058	0.010	N/A	0.0000300	0.000000254	N/A	5019849
233'45'-PentaCB-(106)	ng/g	0.00046 U	0.00046	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(107)	ng/g	0.00285 J	0.00048	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(108)+(124)	ng/g	0.00087 J	0.00050	0.020	N/A	N/A	N/A	N/A	5019849
PentaCB-(110)+(115)	ng/g	0.0230	0.00047	0.020	N/A	N/A	N/A	N/A	5019849
233'55'-PentaCB-(111)	ng/g	0.00045 U	0.00045	0.010	N/A	N/A	N/A	N/A	5019849
233'56'-PentaCB-(112)	ng/g	0.00049 U	0.00049	0.010	N/A	N/A	N/A	N/A	5019849
2344'5'-PentaCB-(114)	ng/g	0.00058 U	0.00058	0.010	N/A	0.0000300	0.0000000174	N/A	5019849
23'44'5'-PentaCB-(118)	ng/g	0.0210	0.00057	0.010	N/A	0.0000300	0.000000630	N/A	5019849
23'455'-PentaCB-(120)	ng/g	0.00041 U	0.00041	0.010	N/A	N/A	N/A	N/A	5019849

EDL = Estimated Detection Limit

RDL = Reportable Detection Limit

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The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY561							
Sampling Date		2017/04/24 10:45							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-GP-COC-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'45'6-PentaCB-(121)	ng/g	0.00046 U	0.00046	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(122)	ng/g	0.00051 U	0.00051	0.010	N/A	N/A	N/A	N/A	5019849
23'44'5'-PentaCB-(123)	ng/g	0.00064 U	0.00064	0.010	N/A	0.0000300	0.0000000192	N/A	5019849
33'44'5'-PentaCB-(126)	ng/g	0.00054 U	0.00054	0.010	N/A	0.100	0.0000540	N/A	5019849
33'45'5'-PentaCB-(127)	ng/g	0.00047 U	0.00047	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(128)+(166)	ng/g	0.00793 J	0.00088	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(129)+(138)+(163)	ng/g	0.0577 Q	0.00094	0.030	N/A	N/A	N/A	N/A	5019849
22'33'45'-HexaCB-(130)	ng/g	0.0041 J	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(131)	ng/g	0.0012 U	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(132)	ng/g	0.0105	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'-HexaCB-(133)	ng/g	0.0014 J	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(134)+(143)	ng/g	0.0023 J	0.0012	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(135)+(151)	ng/g	0.0143 J	0.0010	0.020	N/A	N/A	N/A	N/A	5019849
22'33'66'-HexaCB-(136)	ng/g	0.00331 J	0.00075	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'-HexaCB-(137)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(139)+(140)	ng/g	0.0012 J	0.0010	0.020	N/A	N/A	N/A	N/A	5019849
22'3455'-HexaCB-(141)	ng/g	0.0050 J	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
22'3456'-HexaCB-(142)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
22'345'6'-HexaCB-(144)	ng/g	0.0010 U	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
22'3466'-HexaCB-(145)	ng/g	0.00080 U	0.00080	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'-HexaCB-(146)	ng/g	0.00994 JQ	0.00098	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(147)+(149)	ng/g	0.0340	0.00099	0.020	N/A	N/A	N/A	N/A	5019849
22'34'56'-HexaCB-(148)	ng/g	0.0010 U	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
22'34'66'-HexaCB-(150)	ng/g	0.00073 U	0.00073	0.010	N/A	N/A	N/A	N/A	5019849
22'3566'-HexaCB-(152)	ng/g	0.00075 U	0.00075	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(153)+(168)	ng/g	0.0574 B	0.00080	0.010	N/A	N/A	N/A	N/A	5019849
22'44'56'-HexaCB-(154)	ng/g	0.0012 U (1)	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
22'44'66'-HexaCB-(155)	ng/g	0.00055 U	0.00055	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(156)+(157)	ng/g	0.00264 JQ	0.00068	0.020	N/A	0.0000300	0.0000000792	N/A	5019849
233'44'6'-HexaCB-(158)	ng/g	0.00427 JQ	0.00073	0.010	N/A	N/A	N/A	N/A	5019849

EDL = Estimated Detection Limit

RDL = Reportable Detection Limit

TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,

The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY561							
Sampling Date		2017/04/24 10:45							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-GP-COC-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'455'-HexaCB-(159)	ng/g	0.00060 U	0.00060	0.010	N/A	N/A	N/A	N/A	5019849
233'456'-HexaCB-(160)	ng/g	0.00086 U	0.00086	0.010	N/A	N/A	N/A	N/A	5019849
233'45'6'-HexaCB-(161)	ng/g	0.00073 U	0.00073	0.010	N/A	N/A	N/A	N/A	5019849
233'4'55'-HexaCB-(162)	ng/g	0.00061 U	0.00061	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'6'-HexaCB-(164)	ng/g	0.00426 J	0.00074	0.010	N/A	N/A	N/A	N/A	5019849
233'55'6'-HexaCB-(165)	ng/g	0.00081 U	0.00081	0.010	N/A	N/A	N/A	N/A	5019849
23'44'55'-HexaCB-(167)	ng/g	0.00158 J	0.00065	0.010	N/A	0.0000300	0.0000000474	N/A	5019849
33'44'55'-HexaCB-(169)	ng/g	0.00069 U	0.00069	0.010	N/A	0.0300	0.0000207	N/A	5019849
22'33'44'5'-HeptaCB-(170)	ng/g	0.0052 UQ (1)	0.0052	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(171)+(173)	ng/g	0.0030 J	0.0011	0.020	N/A	N/A	N/A	N/A	5019849
22'33'455'-HeptaCB-(172)	ng/g	0.0013 J	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
22'33'456'-HeptaCB-(174)	ng/g	0.0066 J	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(175)	ng/g	0.00077 U	0.00077	0.010	N/A	N/A	N/A	N/A	5019849
22'33'466'-HeptaCB-(176)	ng/g	0.00060 U	0.00060	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(177)	ng/g	0.0081 JQ	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'6'-HeptaCB-(178)	ng/g	0.00558 JQ	0.00082	0.010	N/A	N/A	N/A	N/A	5019849
22'33'566'-HeptaCB-(179)	ng/g	0.00434 J	0.00056	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(180)+(193)	ng/g	0.0136 J	0.00082	0.020	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(181)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(182)	ng/g	0.00077 U	0.00077	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'6'-HeptaCB-(183)	ng/g	0.00602 JQ	0.00087	0.010	N/A	N/A	N/A	N/A	5019849
22'344'66'-HeptaCB-(184)	ng/g	0.00058 U	0.00058	0.010	N/A	N/A	N/A	N/A	5019849
22'3455'6'-HeptaCB-(185)	ng/g	0.0012 U	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
22'34566'-HeptaCB-(186)	ng/g	0.00064 U	0.00064	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'6'-HeptaCB-(187)	ng/g	0.0239 Q	0.00077	0.010	N/A	N/A	N/A	N/A	5019849
22'34'566'-HeptaCB-(188)	ng/g	0.00058 U	0.00058	0.010	N/A	N/A	N/A	N/A	5019849
233'44'55'-HeptaCB-(189)	ng/g	0.00072 U	0.00072	0.010	N/A	0.0000300	0.0000000216	N/A	5019849
233'44'56'-HeptaCB-(190)	ng/g	0.00079 U	0.00079	0.010	N/A	N/A	N/A	N/A	5019849
233'44'5'6'-HeptaCB-(191)	ng/g	0.00079 U	0.00079	0.010	N/A	N/A	N/A	N/A	5019849
233'455'6'-HeptaCB-(192)	ng/g	0.00088 U	0.00088	0.010	N/A	N/A	N/A	N/A	5019849

EDL = Estimated Detection Limit

RDL = Reportable Detection Limit

TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,

The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY561							
Sampling Date		2017/04/24 10:45							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-GP-COC-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'33'44'55'-OctaCB-(194)	ng/g	0.0033 J (1)	0.0021	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(195)	ng/g	0.0022 U (1)	0.0022	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(196)	ng/g	0.0056 U (1)	0.0056	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'66'-OctaCB-(197)	ng/g	0.0042 U (1)	0.0042	0.050	N/A	N/A	N/A	N/A	5019849
OctaCB-(198)+(199)	ng/g	0.0083 J (1)	0.0059	0.10	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(200)	ng/g	0.0045 U (1)	0.0045	0.050	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(201)	ng/g	0.0042 U (1)	0.0042	0.050	N/A	N/A	N/A	N/A	5019849
22'33'55'66'-OctaCB-(202)	ng/g	0.0044 U (1)	0.0044	0.050	N/A	N/A	N/A	N/A	5019849
22'344'55'6'-OctaCB-(203)	ng/g	0.0055 U (1)	0.0055	0.050	N/A	N/A	N/A	N/A	5019849
22'344'566'-OctaCB-(204)	ng/g	0.0043 U (1)	0.0043	0.050	N/A	N/A	N/A	N/A	5019849
233'44'55'6'-OctaCB-(205)	ng/g	0.00093 U	0.00093	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'55'6'-NonaCB-(206)	ng/g	0.0056 U (2)	0.0056	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'566'-NonaCB-(207)	ng/g	0.0013 U	0.0013	0.010	N/A	N/A	N/A	N/A	5019849
22'33'455'66'-NonaCB-(208)	ng/g	0.0052 J	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
DecaCB-(209)	ng/g	0.013 U (2)	0.013	0.010	N/A	N/A	N/A	N/A	5019849
Total PCB	ng/g	0.531	N/A	N/A	N/A	N/A	N/A	N/A	5019849
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.0000761	N/A	N/A
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	70	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'55'6'-NonaCB-(206)	%	84	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'5'-HeptaCB-(170)	%	133 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'455'66'-NonaCB-(208)	%	113	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'66'-OctaCB-(202)	%	99 Q (1)	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'6'-HeptaCB-(178)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'344'55'-HeptaCB-(180)	%	142 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'34'566'-HeptaCB-(188)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'44'66'-HexaCB-(155)	%	96	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'466'-PentaCB-(104)	%	87	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'66'-TetraCB-(54)	%	58	N/A	N/A	N/A	N/A	N/A	N/A	5019849
EDL = Estimated Detection Limit RDL = Reportable Detection Limit TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient, The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested. WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds QC Batch = Quality Control Batch N/A = Not Applicable (1) ** From 5X Dilution ** (2) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.									

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY561							
Sampling Date		2017/04/24 10:45							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-GP-COC-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-22'6-TriCB-(19)	%	50	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'-DiCB-(4)	%	42	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'6-OctaCB-(205)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'-HeptaCB-(189)	%	105	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'-PentaCB-(105)	%	102	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'55'-PentaCB-(111)	%	96	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'55'-HexaCB-(167)	%	85	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2344'5-PentaCB-(114)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'5-PentaCB-(118)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2'344'5-PentaCB-(123)	%	101	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2-MonoCB-(1)	%	37	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'55'-HexaCB-(169)	%	33	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'5-PentaCB-(126)	%	92	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'-TetraCB-(77)	%	92	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'5-TetraCB-(81)	%	89	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'-TriCB-(37)	%	78	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-44'-DiCB-(15)	%	60	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-4-MonoCB-(3)	%	39	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-DecaCB-(209)	%	79	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-HexaCB-(156)+(157)	%	76	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
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WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY562							
Sampling Date		2017/04/24 11:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-GP-LTN-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch

PCBs									
2-MonoCB-(1)	ng/g	0.0010 U	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
3-MonoCB-(2)	ng/g	0.00089 U	0.00089	0.010	N/A	N/A	N/A	N/A	5019849
4-MonoCB-(3)	ng/g	0.0010 U	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
2,2'-DiCB-(4)	ng/g	0.0063 J	0.0042	0.010	N/A	N/A	N/A	N/A	5019849
2,3-DiCB-(5)	ng/g	0.0034 U	0.0034	0.010	N/A	N/A	N/A	N/A	5019849
2,3'-DiCB-(6)	ng/g	0.0027 U	0.0027	0.010	N/A	N/A	N/A	N/A	5019849
2,4-DiCB-(7)	ng/g	0.0028 U	0.0028	0.010	N/A	N/A	N/A	N/A	5019849
2,4'-DiCB-(8)	ng/g	0.0023 UQ	0.0023	0.010	N/A	N/A	N/A	N/A	5019849
2,5-DiCB-(9)	ng/g	0.0026 U	0.0026	0.010	N/A	N/A	N/A	N/A	5019849
2,6-DiCB-(10)	ng/g	0.0041 U	0.0041	0.010	N/A	N/A	N/A	N/A	5019849
3,3'-DiCB-(11)	ng/g	0.0110	0.0027	0.010	N/A	N/A	N/A	N/A	5019849
DiCB-(12)+(13)	ng/g	0.0028 U	0.0028	0.020	N/A	N/A	N/A	N/A	5019849
3,5-DiCB-(14)	ng/g	0.0026 U	0.0026	0.010	N/A	N/A	N/A	N/A	5019849
4,4'-DiCB-(15)	ng/g	0.0043 U	0.0043	0.010	N/A	N/A	N/A	N/A	5019849
2,2',3-TriCB-(16)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	5019849
2,2',4-TriCB-(17)	ng/g	0.0030 J	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(18)+(30)	ng/g	0.0121 J	0.0010	0.020	N/A	N/A	N/A	N/A	5019849
2,2',6-TriCB-(19)	ng/g	0.00099 U	0.00099	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(20) + (28)	ng/g	0.00406 J	0.00052	0.020	N/A	N/A	N/A	N/A	5019849
TriCB-(21)+(33)	ng/g	0.00574 J	0.00051	0.020	N/A	N/A	N/A	N/A	5019849
2,3,4'-TriCB-(22)	ng/g	0.00075 J	0.00055	0.010	N/A	N/A	N/A	N/A	5019849
2,3,5-TriCB-(23)	ng/g	0.00055 U	0.00055	0.010	N/A	N/A	N/A	N/A	5019849
2,3,6-TriCB-(24)	ng/g	0.00093 U	0.00093	0.010	N/A	N/A	N/A	N/A	5019849
2,3',4-TriCB-(25)	ng/g	0.00069 J	0.00051	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(26)+(29)	ng/g	0.00191 J	0.00051	0.020	N/A	N/A	N/A	N/A	5019849
2,3',6-TriCB-(27)	ng/g	0.00089 U	0.00089	0.010	N/A	N/A	N/A	N/A	5019849
2,4',5-TriCB-(31)	ng/g	0.00453 JQ	0.00049	0.010	N/A	N/A	N/A	N/A	5019849
2,4',6-TriCB-(32)	ng/g	0.00079 U	0.00079	0.010	N/A	N/A	N/A	N/A	5019849
2,3',5'-TriCB-(34)	ng/g	0.00053 U	0.00053	0.010	N/A	N/A	N/A	N/A	5019849
3,3',4-TriCB-(35)	ng/g	0.00053 U	0.00053	0.010	N/A	N/A	N/A	N/A	5019849

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 WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY562							
Sampling Date		2017/04/24 11:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-GP-LTN-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'5'-TriCB-(36)	ng/g	0.00045 U	0.00045	0.010	N/A	N/A	N/A	N/A	5019849
344'-TriCB-(37)	ng/g	0.00084 J	0.00076	0.010	N/A	N/A	N/A	N/A	5019849
345'-TriCB-(38)	ng/g	0.00051 U	0.00051	0.010	N/A	N/A	N/A	N/A	5019849
34'5'-TriCB-(39)	ng/g	0.00051 U	0.00051	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(40)+(41)+(71)	ng/g	0.0016 U (1)	0.0016	0.030	N/A	N/A	N/A	N/A	5019849
22'34'-TetraCB-(42)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
22'35'-TetraCB-(43)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(44)+(47)+(65)	ng/g	0.00740 J	0.00091	0.030	N/A	N/A	N/A	N/A	5019849
TetraCB-(45)+(51)	ng/g	0.0010 UQ	0.0010	0.020	N/A	N/A	N/A	N/A	5019849
22'36'-TetraCB-(46)	ng/g	0.0012 U	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
22'45'-TetraCB-(48)	ng/g	0.00705 J	0.00099	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(49)+TetraCB-(69)	ng/g	0.00570 J	0.00089	0.020	N/A	N/A	N/A	N/A	5019849
TetraCB-(50)+(53)	ng/g	0.00098 U	0.00098	0.020	N/A	N/A	N/A	N/A	5019849
22'55'-TetraCB-(52)	ng/g	0.0260 Q	0.00093	0.010	N/A	N/A	N/A	N/A	5019849
22'66'-TetraCB-(54)	ng/g	0.00044 U	0.00044	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-TetraCB-(55)	ng/g	0.00054 U	0.00054	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-Tetra CB(56)	ng/g	0.00070 JQ	0.00053	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(57)	ng/g	0.00050 U	0.00050	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(58)	ng/g	0.00054 U	0.00054	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(59)+(62)+(75)	ng/g	0.00076 U	0.00076	0.030	N/A	N/A	N/A	N/A	5019849
2344'-TetraCB -(60)	ng/g	0.00054 U	0.00054	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.00866 J	0.00051	0.040	N/A	N/A	N/A	N/A	5019849
234'5'-TetraCB-(63)	ng/g	0.00048 UQ	0.00048	0.010	N/A	N/A	N/A	N/A	5019849
234'6'-TetraCB-(64)	ng/g	0.00081 U	0.00081	0.010	N/A	N/A	N/A	N/A	5019849
23'44'-TetraCB-(66)	ng/g	0.00262 J	0.00050	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(67)	ng/g	0.00048 U	0.00048	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(68)	ng/g	0.00092 J	0.00049	0.010	N/A	N/A	N/A	N/A	5019849
23'55'-TetraCB-(72)	ng/g	0.00048 U	0.00048	0.010	N/A	N/A	N/A	N/A	5019849
23'5'6'-TetraCB-(73)	ng/g	0.00071 U	0.00071	0.010	N/A	N/A	N/A	N/A	5019849
33'44'-TetraCB-(77)	ng/g	0.00068 U	0.00068	0.010	N/A	0.000100	0.0000000680	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY562							
Sampling Date		2017/04/24 11:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-GP-LTN-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'45'-TetraCB-(78)	ng/g	0.00050 U	0.00050	0.010	N/A	N/A	N/A	N/A	5019849
33'45'-TetraCB(79)	ng/g	0.00045 U	0.00045	0.010	N/A	N/A	N/A	N/A	5019849
33'55'-TetraCB-(80)	ng/g	0.00046 U	0.00046	0.010	N/A	N/A	N/A	N/A	5019849
344'5'-TetraCB-(81)	ng/g	0.00067 U	0.00067	0.010	N/A	0.000300	0.000000201	N/A	5019849
22'33'4'-PentaCB-(82)	ng/g	0.0010 UQ	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(83)+(99)	ng/g	0.00744 J	0.00090	0.020	N/A	N/A	N/A	N/A	5019849
22'33'6'-PentaCB-(84)	ng/g	0.0010 U	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(85)+(116)+(117)	ng/g	0.0015 U (1)	0.0015	0.030	N/A	N/A	N/A	N/A	5019849
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.00484 J	0.00079	0.060	N/A	N/A	N/A	N/A	5019849
PentaCB-(88)+(91)	ng/g	0.00092 U	0.00092	0.020	N/A	N/A	N/A	N/A	5019849
22'346'-PentaCB-(89)	ng/g	0.00096 U	0.00096	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(90)+(101)+(113)	ng/g	0.0396	0.00081	0.030	N/A	N/A	N/A	N/A	5019849
22'355'-PentaCB-(92)	ng/g	0.00291 JQ	0.00093	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.00094 U	0.00094	0.040	N/A	N/A	N/A	N/A	5019849
22'356'-PentaCB-(94)	ng/g	0.0010 U	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
22'35'6'-PentaCB-(95)	ng/g	0.00328 JQ	0.00087	0.010	N/A	N/A	N/A	N/A	5019849
22'366'-PentaCB-(96)	ng/g	0.00050 U	0.00050	0.010	N/A	N/A	N/A	N/A	5019849
22'45'6'-PentaCB-(103)	ng/g	0.00082 U	0.00082	0.010	N/A	N/A	N/A	N/A	5019849
22'466'-PentaCB-(104)	ng/g	0.00035 U	0.00035	0.010	N/A	N/A	N/A	N/A	5019849
233'44'-PentaCB-(105)	ng/g	0.00257 J	0.00051	0.010	N/A	0.0000300	0.0000000771	N/A	5019849
233'45'-PentaCB-(106)	ng/g	0.00041 U	0.00041	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(107)	ng/g	0.00103 J	0.00043	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(108)+(124)	ng/g	0.00044 U	0.00044	0.020	N/A	N/A	N/A	N/A	5019849
PentaCB-(110)+(115)	ng/g	0.00593 J	0.00073	0.020	N/A	N/A	N/A	N/A	5019849
233'55'-PentaCB-(111)	ng/g	0.00069 U	0.00069	0.010	N/A	N/A	N/A	N/A	5019849
233'56'-PentaCB-(112)	ng/g	0.00075 U	0.00075	0.010	N/A	N/A	N/A	N/A	5019849
2344'5'-PentaCB-(114)	ng/g	0.00051 U	0.00051	0.010	N/A	0.0000300	0.0000000153	N/A	5019849
23'44'5'-PentaCB-(118)	ng/g	0.00739 J	0.00051	0.010	N/A	0.0000300	0.0000000222	N/A	5019849
23'455'-PentaCB-(120)	ng/g	0.00063 U	0.00063	0.010	N/A	N/A	N/A	N/A	5019849
23'45'6'-PentaCB-(121)	ng/g	0.00070 U	0.00070	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY562							
Sampling Date		2017/04/24 11:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-GP-LTN-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'4'5'-PentaCB-(122)	ng/g	0.00045 U	0.00045	0.010	N/A	N/A	N/A	N/A	5019849
23'44'5'-PentaCB-(123)	ng/g	0.00057 U	0.00057	0.010	N/A	0.0000300	0.0000000171	N/A	5019849
33'44'5'-PentaCB-(126)	ng/g	0.00048 U	0.00048	0.010	N/A	0.100	0.0000480	N/A	5019849
33'455'-PentaCB-(127)	ng/g	0.00042 U	0.00042	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(128)+(166)	ng/g	0.0035 J	0.0011	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(129)+(138)+(163)	ng/g	0.0266 JQ	0.0012	0.030	N/A	N/A	N/A	N/A	5019849
22'33'45'-HexaCB-(130)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(131)	ng/g	0.0015 U	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(132)	ng/g	0.0031 J	0.0014	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'-HexaCB-(133)	ng/g	0.0013 U	0.0013	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(134)+(143)	ng/g	0.0014 U	0.0014	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(135)+(151)	ng/g	0.0057 J	0.0011	0.020	N/A	N/A	N/A	N/A	5019849
22'33'66'-HexaCB-(136)	ng/g	0.00084 U	0.00084	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'-HexaCB-(137)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(139)+(140)	ng/g	0.0012 U	0.0012	0.020	N/A	N/A	N/A	N/A	5019849
22'3455'-HexaCB-(141)	ng/g	0.0024 J	0.0013	0.010	N/A	N/A	N/A	N/A	5019849
22'3456'-HexaCB-(142)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	5019849
22'345'6'-HexaCB-(144)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
22'3466'-HexaCB-(145)	ng/g	0.00090 U	0.00090	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'-HexaCB-(146)	ng/g	0.0077 JQ	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(147)+(149)	ng/g	0.0092 J	0.0012	0.020	N/A	N/A	N/A	N/A	5019849
22'34'56'-HexaCB-(148)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
22'34'66'-HexaCB-(150)	ng/g	0.00082 U	0.00082	0.010	N/A	N/A	N/A	N/A	5019849
22'3566'-HexaCB-(152)	ng/g	0.00084 U	0.00084	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(153)+(168)	ng/g	0.0298 B	0.00098	0.010	N/A	N/A	N/A	N/A	5019849
22'44'56'-HexaCB-(154)	ng/g	0.0010 U	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
22'44'66'-HexaCB-(155)	ng/g	0.00062 U	0.00062	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(156)+(157)	ng/g	0.0012 UQ (1)	0.0012	0.020	N/A	0.0000300	0.0000000360	N/A	5019849
233'44'6'-HexaCB-(158)	ng/g	0.00174 JQ	0.00089	0.010	N/A	N/A	N/A	N/A	5019849
233'455'-HexaCB-(159)	ng/g	0.00039 U	0.00039	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY562							
Sampling Date		2017/04/24 11:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-GP-LTN-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'456-HexaCB-(160)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
233'45'6-HexaCB-(161)	ng/g	0.00089 U	0.00089	0.010	N/A	N/A	N/A	N/A	5019849
233'4'55'-HexaCB-(162)	ng/g	0.00040 U	0.00040	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'6-HexaCB-(164)	ng/g	0.00091 U	0.00091	0.010	N/A	N/A	N/A	N/A	5019849
233'55'6-HexaCB-(165)	ng/g	0.00099 U	0.00099	0.010	N/A	N/A	N/A	N/A	5019849
23'44'55'-HexaCB-(167)	ng/g	0.00044 U (1)	0.00044	0.010	N/A	0.0000300	0.0000000132	N/A	5019849
33'44'55'-HexaCB-(169)	ng/g	0.00045 U	0.00045	0.010	N/A	0.0300	0.0000135	N/A	5019849
22'33'44'5-HeptaCB-(170)	ng/g	0.0036 UQ (1)	0.0036	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(171)+(173)	ng/g	0.0030 U (2)	0.0030	0.10	N/A	N/A	N/A	N/A	5019849
22'33'455'-HeptaCB-(172)	ng/g	0.0030 U (2)	0.0030	0.050	N/A	N/A	N/A	N/A	5019849
22'33'456'-HeptaCB-(174)	ng/g	0.0029 U (2)	0.0029	0.050	N/A	N/A	N/A	N/A	5019849
22'33'45'6-HeptaCB-(175)	ng/g	0.0040 U (2)	0.0040	0.050	N/A	N/A	N/A	N/A	5019849
22'33'466'-HeptaCB-(176)	ng/g	0.0031 U (2)	0.0031	0.050	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(177)	ng/g	0.0042 JQ (2)	0.0029	0.050	N/A	N/A	N/A	N/A	5019849
22'33'55'6-HeptaCB-(178)	ng/g	0.0041 UQ (2)	0.0041	0.050	N/A	N/A	N/A	N/A	5019849
22'33'566'-HeptaCB-(179)	ng/g	0.0028 U (2)	0.0028	0.050	N/A	N/A	N/A	N/A	5019849
HeptaCB-(180)+(193)	ng/g	0.0093 J (2)	0.0022	0.10	N/A	N/A	N/A	N/A	5019849
22'344'56-HeptaCB-(181)	ng/g	0.0029 U (2)	0.0029	0.050	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(182)	ng/g	0.0040 U (2)	0.0040	0.050	N/A	N/A	N/A	N/A	5019849
22'344'5'6-HeptaCB-(183)	ng/g	0.0026 UQ (3)	0.0026	0.050	N/A	N/A	N/A	N/A	5019849
22'344'66'-HeptaCB-(184)	ng/g	0.0030 U (2)	0.0030	0.050	N/A	N/A	N/A	N/A	5019849
22'3455'6-HeptaCB-(185)	ng/g	0.0032 U (2)	0.0032	0.050	N/A	N/A	N/A	N/A	5019849
22'34566'-HeptaCB-(186)	ng/g	0.0033 U (2)	0.0033	0.050	N/A	N/A	N/A	N/A	5019849
22'34'55'6-HeptaCB-(187)	ng/g	0.0094 JQ (2)	0.0039	0.050	N/A	N/A	N/A	N/A	5019849
22'34'566'-HeptaCB-(188)	ng/g	0.00035 U	0.00035	0.010	N/A	N/A	N/A	N/A	5019849
233'44'55'-HeptaCB-(189)	ng/g	0.00096 U	0.00096	0.010	N/A	0.0000300	0.0000000288	N/A	5019849
233'44'56-HeptaCB-(190)	ng/g	0.0022 U (2)	0.0022	0.050	N/A	N/A	N/A	N/A	5019849

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(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.
(2) ** From 5X Dilution **
(3) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.
** From 5X Dilution **

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY562							
Sampling Date		2017/04/24 11:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-GP-LTN-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'44'5'6-HeptaCB-(191)	ng/g	0.0022 U (1)	0.0022	0.050	N/A	N/A	N/A	N/A	5019849
233'45'5'6-HeptaCB-(192)	ng/g	0.0024 U (1)	0.0024	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'55'-OctaCB-(194)	ng/g	0.0027 U (2)	0.0027	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(195)	ng/g	0.0020 U (1)	0.0020	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(196)	ng/g	0.0036 U (1)	0.0036	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'66'-OctaCB-(197)	ng/g	0.0027 U (1)	0.0027	0.050	N/A	N/A	N/A	N/A	5019849
OctaCB-(198)+(199)	ng/g	0.0062 J (1)	0.0038	0.10	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(200)	ng/g	0.0029 U (1)	0.0029	0.050	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(201)	ng/g	0.0027 U (1)	0.0027	0.050	N/A	N/A	N/A	N/A	5019849
22'33'55'66'-OctaCB-(202)	ng/g	0.0029 U (1)	0.0029	0.050	N/A	N/A	N/A	N/A	5019849
22'344'55'6'-OctaCB-(203)	ng/g	0.0036 U (1)	0.0036	0.050	N/A	N/A	N/A	N/A	5019849
22'344'566'-OctaCB-(204)	ng/g	0.0028 U (1)	0.0028	0.050	N/A	N/A	N/A	N/A	5019849
233'44'55'6'-OctaCB-(205)	ng/g	0.00089 U	0.00089	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'55'6'-NonaCB-(206)	ng/g	0.0089 J	0.0014	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'566'-NonaCB-(207)	ng/g	0.0012 U	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
22'33'455'66'-NonaCB-(208)	ng/g	0.0055 J	0.0014	0.010	N/A	N/A	N/A	N/A	5019849
DecaCB-(209)	ng/g	0.0153	0.00094	0.010	N/A	N/A	N/A	N/A	5019849
Total PCB	ng/g	0.333	N/A	N/A	N/A	N/A	N/A	N/A	5019849
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.0000622	N/A	N/A
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	63	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'55'6'-NonaCB-(206)	%	87	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'5'-HeptaCB-(170)	%	143 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'455'66'-NonaCB-(208)	%	121	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'66'-OctaCB-(202)	%	99 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'6'-HeptaCB-(178)	%	101	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'344'55'-HeptaCB-(180)	%	95 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'34'566'-HeptaCB-(188)	%	102	N/A	N/A	N/A	N/A	N/A	N/A	5019849
<p>EDL = Estimated Detection Limit RDL = Reportable Detection Limit TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient, The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested. WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds QC Batch = Quality Control Batch N/A = Not Applicable (1) ** From 5X Dilution ** (2) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit. ** From 5X Dilution **</p>									

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY562							
Sampling Date		2017/04/24 11:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-GP-LTN-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-22'44'66'-HexaCB-(155)	%	96	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'466'-PentaCB-(104)	%	77	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'66'-TetraCB-(54)	%	47	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'6-TriCB-(19)	%	43	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'-DiCB-(4)	%	35	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'6-OctaCB-(205)	%	104	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'-HeptaCB-(189)	%	110	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'-PentaCB-(105)	%	103	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'55'-PentaCB-(111)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'55'-HexaCB-(167)	%	94	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2344'5-PentaCB-(114)	%	104	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'5-PentaCB-(118)	%	101	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2'344'5-PentaCB-(123)	%	102	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2-MonoCB-(1)	%	33	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'55'-HexaCB-(169)	%	35	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'5-PentaCB-(126)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'-TetraCB-(77)	%	92	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'5-TetraCB-(81)	%	89	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'-TriCB-(37)	%	74	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-44'-DiCB-(15)	%	54	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-4-MonoCB-(3)	%	35	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-DecaCB-(209)	%	82	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-HexaCB-(156)+(157)	%	81	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
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QC Batch = Quality Control Batch
N/A = Not Applicable

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY563							
Sampling Date		2017/04/24 11:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-OYS-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch

PCBs									
2-MonoCB-(1)	ng/g	0.00073 U	0.00073	0.0099	N/A	N/A	N/A	N/A	5019849
3-MonoCB-(2)	ng/g	0.00064 U	0.00064	0.0099	N/A	N/A	N/A	N/A	5019849
4-MonoCB-(3)	ng/g	0.00072 U	0.00072	0.0099	N/A	N/A	N/A	N/A	5019849
22'-DiCB-(4)	ng/g	0.0018 U	0.0018	0.0099	N/A	N/A	N/A	N/A	5019849
2,3-DiCB-(5)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	5019849
2,3'-DiCB-(6)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	5019849
2,4-DiCB-(7)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	5019849
2,4'-DiCB-(8)	ng/g	0.0038 JQ	0.0012	0.0099	N/A	N/A	N/A	N/A	5019849
2,5-DiCB-(9)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	5019849
2,6-DiCB-(10)	ng/g	0.0018 U	0.0018	0.0099	N/A	N/A	N/A	N/A	5019849
3,3'-DiCB-(11)	ng/g	0.0139	0.0012	0.0099	N/A	N/A	N/A	N/A	5019849
DiCB-(12)+(13)	ng/g	0.0012 U	0.0012	0.020	N/A	N/A	N/A	N/A	5019849
3,5-DiCB-(14)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	5019849
4,4'-DiCB-(15)	ng/g	0.0029 J	0.0018	0.0099	N/A	N/A	N/A	N/A	5019849
22'3-TriCB-(16)	ng/g	0.0055 U (1)	0.0055	0.0099	N/A	N/A	N/A	N/A	5019849
22'4-TriCB-(17)	ng/g	0.00594 J	0.00066	0.0099	N/A	N/A	N/A	N/A	5019849
TriCB-(18)+(30)	ng/g	0.0127 J	0.00054	0.020	N/A	N/A	N/A	N/A	5019849
22'6-TriCB-(19)	ng/g	0.00145 J	0.00052	0.0099	N/A	N/A	N/A	N/A	5019849
TriCB-(20) + (28)	ng/g	0.0467	0.00026	0.020	N/A	N/A	N/A	N/A	5019849
TriCB-(21)+(33)	ng/g	0.0101 J	0.00027	0.020	N/A	N/A	N/A	N/A	5019849
234'-TriCB-(22)	ng/g	0.0101	0.00028	0.0099	N/A	N/A	N/A	N/A	5019849
235-TriCB-(23)	ng/g	0.00028 U	0.00028	0.0099	N/A	N/A	N/A	N/A	5019849
236-TriCB-(24)	ng/g	0.00041 U	0.00041	0.0099	N/A	N/A	N/A	N/A	5019849
23'4-TriCB-(25)	ng/g	0.00303 J	0.00027	0.0099	N/A	N/A	N/A	N/A	5019849
TriCB-(26)+(29)	ng/g	0.00445 J	0.00026	0.020	N/A	N/A	N/A	N/A	5019849
23'6-TriCB-(27)	ng/g	0.00147 J	0.00048	0.0099	N/A	N/A	N/A	N/A	5019849
24'5-TriCB-(31)	ng/g	0.0277 Q	0.00025	0.0099	N/A	N/A	N/A	N/A	5019849
24'6-TriCB-(32)	ng/g	0.00543 J	0.00042	0.0099	N/A	N/A	N/A	N/A	5019849
23'5'-TriCB-(34)	ng/g	0.00026 U	0.00026	0.0099	N/A	N/A	N/A	N/A	5019849

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 WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
 QC Batch = Quality Control Batch
 N/A = Not Applicable
 (1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY563							
Sampling Date		2017/04/24 11:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-OYS-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'4-TriCB-(35)	ng/g	0.00057 U (1)	0.00057	0.0099	N/A	N/A	N/A	N/A	5019849
33'5-TriCB-(36)	ng/g	0.00124 J	0.00023	0.0099	N/A	N/A	N/A	N/A	5019849
344'-TriCB-(37)	ng/g	0.00906 J	0.00039	0.0099	N/A	N/A	N/A	N/A	5019849
345-TriCB-(38)	ng/g	0.00025 U	0.00025	0.0099	N/A	N/A	N/A	N/A	5019849
34'5-TriCB-(39)	ng/g	0.00026 U	0.00026	0.0099	N/A	N/A	N/A	N/A	5019849
TetraCB-(40)+(41)+(71)	ng/g	0.0320	0.00057	0.030	N/A	N/A	N/A	N/A	5019849
22'34'-TetraCB-(42)	ng/g	0.0234	0.00066	0.0099	N/A	N/A	N/A	N/A	5019849
22'35-TetraCB-(43)	ng/g	0.00268 J	0.00061	0.0099	N/A	N/A	N/A	N/A	5019849
TetraCB-(44)+(47)+(65)	ng/g	0.0828	0.00053	0.030	N/A	N/A	N/A	N/A	5019849
TetraCB-(45)+(51)	ng/g	0.00942 JQ	0.00058	0.020	N/A	N/A	N/A	N/A	5019849
22'36'-TetraCB-(46)	ng/g	0.00275 J	0.00067	0.0099	N/A	N/A	N/A	N/A	5019849
22'45-TetraCB-(48)	ng/g	0.0121	0.00057	0.0099	N/A	N/A	N/A	N/A	5019849
TetraCB-(49)+TetraCB-(69)	ng/g	0.0627	0.00051	0.020	N/A	N/A	N/A	N/A	5019849
TetraCB-(50)+(53)	ng/g	0.0081 U (1)	0.0081	0.020	N/A	N/A	N/A	N/A	5019849
22'55'-TetraCB-(52)	ng/g	0.104 Q	0.00050	0.0099	N/A	N/A	N/A	N/A	5019849
22'66'-TetraCB-(54)	ng/g	0.00047 U	0.00047	0.0099	N/A	N/A	N/A	N/A	5019849
233'4-TetraCB-(55)	ng/g	0.00066 U	0.00066	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'-Tetra CB(56)	ng/g	0.0187 Q	0.00064	0.0099	N/A	N/A	N/A	N/A	5019849
233'5-TetraCB-(57)	ng/g	0.00061 U	0.00061	0.0099	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(58)	ng/g	0.00068 U	0.00068	0.0099	N/A	N/A	N/A	N/A	5019849
TetraCB-(59)+(62)+(75)	ng/g	0.00734 J	0.00043	0.030	N/A	N/A	N/A	N/A	5019849
2344'-TetraCB -(60)	ng/g	0.0140	0.00064	0.0099	N/A	N/A	N/A	N/A	5019849
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.112	0.00062	0.040	N/A	N/A	N/A	N/A	5019849
234'5-TetraCB-(63)	ng/g	0.00365 JQ	0.00058	0.0099	N/A	N/A	N/A	N/A	5019849
234'6-TetraCB-(64)	ng/g	0.0337	0.00045	0.0099	N/A	N/A	N/A	N/A	5019849
23'44'-TetraCB-(66)	ng/g	0.0563	0.00060	0.0099	N/A	N/A	N/A	N/A	5019849
23'45-TetraCB-(67)	ng/g	0.00180 J	0.00055	0.0099	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(68)	ng/g	0.00262 J	0.00059	0.0099	N/A	N/A	N/A	N/A	5019849
23'55'-TetraCB-(72)	ng/g	0.0013 U (1)	0.0013	0.0099	N/A	N/A	N/A	N/A	5019849
23'5'6-TetraCB-(73)	ng/g	0.00048 U	0.00048	0.0099	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY563							
Sampling Date		2017/04/24 11:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-OYS-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'44'-TetraCB-(77)	ng/g	0.00642 J	0.00081	0.0099	N/A	0.000100	0.000000642	N/A	5019849
33'45'-TetraCB-(78)	ng/g	0.00059 U	0.00059	0.0099	N/A	N/A	N/A	N/A	5019849
33'45'-TetraCB-(79)	ng/g	0.00201 J	0.00053	0.0099	N/A	N/A	N/A	N/A	5019849
33'55'-TetraCB-(80)	ng/g	0.00055 U	0.00055	0.0099	N/A	N/A	N/A	N/A	5019849
344'5'-TetraCB-(81)	ng/g	0.00081 U	0.00081	0.0099	N/A	0.000300	0.000000243	N/A	5019849
22'33'4'-PentaCB-(82)	ng/g	0.0109 Q	0.00079	0.0099	N/A	N/A	N/A	N/A	5019849
PentaCB-(83)+(99)	ng/g	0.208	0.00070	0.020	N/A	N/A	N/A	N/A	5019849
22'33'6'-PentaCB-(84)	ng/g	0.0322	0.00081	0.0099	N/A	N/A	N/A	N/A	5019849
PentaCB-(85)+(116)+(117)	ng/g	0.0340	0.00059	0.030	N/A	N/A	N/A	N/A	5019849
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.117	0.00061	0.060	N/A	N/A	N/A	N/A	5019849
PentaCB-(88)+(91)	ng/g	0.0296	0.00072	0.020	N/A	N/A	N/A	N/A	5019849
22'346'-PentaCB-(89)	ng/g	0.00164 J	0.00075	0.0099	N/A	N/A	N/A	N/A	5019849
PentaCB-(90)+(101)+(113)	ng/g	0.266	0.00063	0.030	N/A	N/A	N/A	N/A	5019849
22'355'-PentaCB-(92)	ng/g	0.0523 Q	0.00071	0.0099	N/A	N/A	N/A	N/A	5019849
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.0139 J	0.00074	0.040	N/A	N/A	N/A	N/A	5019849
22'356'-PentaCB-(94)	ng/g	0.00150 J	0.00080	0.0099	N/A	N/A	N/A	N/A	5019849
22'35'6'-PentaCB-(95)	ng/g	0.139 Q	0.00068	0.0099	N/A	N/A	N/A	N/A	5019849
22'366'-PentaCB-(96)	ng/g	0.0012 U (1)	0.0012	0.0099	N/A	N/A	N/A	N/A	5019849
22'45'6'-PentaCB-(103)	ng/g	0.00447 J	0.00064	0.0099	N/A	N/A	N/A	N/A	5019849
22'466'-PentaCB-(104)	ng/g	0.00026 U	0.00026	0.0099	N/A	N/A	N/A	N/A	5019849
233'44'-PentaCB-(105)	ng/g	0.0618	0.00056	0.0099	N/A	0.0000300	0.00000185	N/A	5019849
233'45'-PentaCB-(106)	ng/g	0.00045 U	0.00045	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(107)	ng/g	0.0195	0.00042	0.0099	N/A	N/A	N/A	N/A	5019849
PentaCB-(108)+(124)	ng/g	0.00757 J	0.00048	0.020	N/A	N/A	N/A	N/A	5019849
PentaCB-(110)+(115)	ng/g	0.213	0.00058	0.020	N/A	N/A	N/A	N/A	5019849
233'55'-PentaCB-(111)	ng/g	0.00070 J	0.00052	0.0099	N/A	N/A	N/A	N/A	5019849
233'56'-PentaCB-(112)	ng/g	0.00059 U	0.00059	0.0099	N/A	N/A	N/A	N/A	5019849
2344'5'-PentaCB-(114)	ng/g	0.00311 J	0.00056	0.0099	N/A	0.0000300	0.0000000933	N/A	5019849
23'44'5'-PentaCB-(118)	ng/g	0.232	0.00056	0.0099	N/A	0.0000300	0.00000696	N/A	5019849
23'455'-PentaCB-(120)	ng/g	0.0025 U (1)	0.0025	0.0099	N/A	N/A	N/A	N/A	5019849

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(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY563							
Sampling Date		2017/04/24 11:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-OYS-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'45'6'-PentaCB-(121)	ng/g	0.00055 U	0.00055	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(122)	ng/g	0.0014 U (1)	0.0014	0.0099	N/A	N/A	N/A	N/A	5019849
23'44'5'-PentaCB-(123)	ng/g	0.00270 J	0.00062	0.0099	N/A	0.0000300	0.0000000810	N/A	5019849
33'44'5'-PentaCB-(126)	ng/g	0.00075 U (1)	0.00075	0.0099	N/A	0.100	0.0000750	N/A	5019849
33'455'-PentaCB-(127)	ng/g	0.00045 U	0.00045	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(128)+(166)	ng/g	0.0451	0.00046	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(129)+(138)+(163)	ng/g	0.531 Q	0.00051	0.030	N/A	N/A	N/A	N/A	5019849
22'33'45'-HexaCB-(130)	ng/g	0.0166	0.00060	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(131)	ng/g	0.00354 J	0.00067	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(132)	ng/g	0.121	0.00062	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'55'-HexaCB-(133)	ng/g	0.0152	0.00055	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(134)+(143)	ng/g	0.0175 J	0.00063	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(135)+(151)	ng/g	0.210	0.0011	0.020	N/A	N/A	N/A	N/A	5019849
22'33'66'-HexaCB-(136)	ng/g	0.0456	0.00079	0.0099	N/A	N/A	N/A	N/A	5019849
22'344'5'-HexaCB-(137)	ng/g	0.00838 J	0.00064	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(139)+(140)	ng/g	0.00952 J	0.00054	0.020	N/A	N/A	N/A	N/A	5019849
22'3455'-HexaCB-(141)	ng/g	0.0198	0.00055	0.0099	N/A	N/A	N/A	N/A	5019849
22'3456'-HexaCB-(142)	ng/g	0.00060 U	0.00060	0.0099	N/A	N/A	N/A	N/A	5019849
22'345'6'-HexaCB-(144)	ng/g	0.0156	0.0010	0.0099	N/A	N/A	N/A	N/A	5019849
22'3466'-HexaCB-(145)	ng/g	0.00086 U	0.00086	0.0099	N/A	N/A	N/A	N/A	5019849
22'34'55'-HexaCB-(146)	ng/g	0.133 Q	0.00048	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(147)+(149)	ng/g	0.458	0.00053	0.020	N/A	N/A	N/A	N/A	5019849
22'34'56'-HexaCB-(148)	ng/g	0.0037 J	0.0011	0.0099	N/A	N/A	N/A	N/A	5019849
22'34'66'-HexaCB-(150)	ng/g	0.00190 J	0.00084	0.0099	N/A	N/A	N/A	N/A	5019849
22'3566'-HexaCB-(152)	ng/g	0.00076 U	0.00076	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(153)+(168)	ng/g	0.985 B	0.00043	0.0099	N/A	N/A	N/A	N/A	5019849
22'44'56'-HexaCB-(154)	ng/g	0.0224	0.00094	0.0099	N/A	N/A	N/A	N/A	5019849
22'44'66'-HexaCB-(155)	ng/g	0.00059 U	0.00059	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(156)+(157)	ng/g	0.0149 JQ	0.00047	0.020	N/A	0.0000300	0.000000447	N/A	5019849
233'44'6'-HexaCB-(158)	ng/g	0.0201 Q	0.00039	0.0099	N/A	N/A	N/A	N/A	5019849

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N/A = Not Applicable

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY563							
Sampling Date		2017/04/24 11:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-OYS-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'455'-HexaCB-(159)	ng/g	0.00039 U	0.00039	0.0099	N/A	N/A	N/A	N/A	5019849
233'456'-HexaCB-(160)	ng/g	0.00046 U	0.00046	0.0099	N/A	N/A	N/A	N/A	5019849
233'45'6'-HexaCB-(161)	ng/g	0.00043 U	0.00043	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'55'-HexaCB-(162)	ng/g	0.00207 J	0.00041	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'5'6'-HexaCB-(164)	ng/g	0.0231	0.00039	0.0099	N/A	N/A	N/A	N/A	5019849
233'55'6'-HexaCB-(165)	ng/g	0.00190 J	0.00044	0.0099	N/A	N/A	N/A	N/A	5019849
23'44'55'-HexaCB-(167)	ng/g	0.0196	0.00045	0.0099	N/A	0.0000300	0.000000588	N/A	5019849
33'44'55'-HexaCB-(169)	ng/g	0.00048 U	0.00048	0.0099	N/A	0.0300	0.0000144	N/A	5019849
22'33'44'5'-HeptaCB-(170)	ng/g	0.00673 JQ	0.00086	0.0099	N/A	N/A	N/A	N/A	5019849
HeptaCB-(171)+(173)	ng/g	0.0259	0.0012	0.020	N/A	N/A	N/A	N/A	5019849
22'33'455'-HeptaCB-(172)	ng/g	0.0017 J	0.0012	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'456'-HeptaCB-(174)	ng/g	0.0045 J	0.0011	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(175)	ng/g	0.00422 J	0.00064	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'466'-HeptaCB-(176)	ng/g	0.0159	0.00050	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(177)	ng/g	0.0916 Q	0.0011	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'55'6'-HeptaCB-(178)	ng/g	0.0606 Q	0.00066	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'566'-HeptaCB-(179)	ng/g	0.0604	0.00046	0.0099	N/A	N/A	N/A	N/A	5019849
HeptaCB-(180)+(193)	ng/g	0.0618	0.00086	0.020	N/A	N/A	N/A	N/A	5019849
22'344'56-HeptaCB-(181)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(182)	ng/g	0.00064 U	0.00064	0.0099	N/A	N/A	N/A	N/A	5019849
22'344'5'6'-HeptaCB-(183)	ng/g	0.0655 Q	0.0010	0.0099	N/A	N/A	N/A	N/A	5019849
22'344'66'-HeptaCB-(184)	ng/g	0.00048 U	0.00048	0.0099	N/A	N/A	N/A	N/A	5019849
22'3455'6'-HeptaCB-(185)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	5019849
22'34566'-HeptaCB-(186)	ng/g	0.00053 U	0.00053	0.0099	N/A	N/A	N/A	N/A	5019849
22'34'55'6'-HeptaCB-(187)	ng/g	0.393 Q	0.00063	0.0099	N/A	N/A	N/A	N/A	5019849
22'34'566'-HeptaCB-(188)	ng/g	0.0017 U (1)	0.0017	0.0099	N/A	N/A	N/A	N/A	5019849
233'44'55'-HeptaCB-(189)	ng/g	0.00047 U (1)	0.00047	0.0099	N/A	0.0000300	0.000000141	N/A	5019849
233'44'56-HeptaCB-(190)	ng/g	0.00087 U	0.00087	0.0099	N/A	N/A	N/A	N/A	5019849
233'44'5'6'-HeptaCB-(191)	ng/g	0.00126 J	0.00085	0.0099	N/A	N/A	N/A	N/A	5019849
233'455'6'-HeptaCB-(192)	ng/g	0.00095 U	0.00095	0.0099	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY563							
Sampling Date		2017/04/24 11:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-OYS-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'33'44'55'-OctaCB-(194)	ng/g	0.0010 U (1)	0.0010	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(195)	ng/g	0.00060 U	0.00060	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(196)	ng/g	0.00159 J	0.00058	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'44'66'-OctaCB-(197)	ng/g	0.00275 J	0.00044	0.0099	N/A	N/A	N/A	N/A	5019849
OctaCB-(198)+(199)	ng/g	0.00227 J	0.00061	0.020	N/A	N/A	N/A	N/A	5019849
22'33'4566'-OctaCB-(200)	ng/g	0.00047 U	0.00047	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(201)	ng/g	0.00957 J	0.00044	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'55'66'-OctaCB-(202)	ng/g	0.0252	0.00046	0.0099	N/A	N/A	N/A	N/A	5019849
22'344'55'6'-OctaCB-(203)	ng/g	0.00058 U	0.00058	0.0099	N/A	N/A	N/A	N/A	5019849
22'344'566'-OctaCB-(204)	ng/g	0.00045 U	0.00045	0.0099	N/A	N/A	N/A	N/A	5019849
233'44'55'6'-OctaCB-(205)	ng/g	0.00056 U	0.00056	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'44'55'6'-NonaCB-(206)	ng/g	0.00085 U	0.00085	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'44'566'-NonaCB-(207)	ng/g	0.00067 U	0.00067	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'455'66'-NonaCB-(208)	ng/g	0.00083 U	0.00083	0.0099	N/A	N/A	N/A	N/A	5019849
DecaCB-(209)	ng/g	0.0018 U	0.0018	0.0099	N/A	N/A	N/A	N/A	5019849
Total PCB	ng/g	5.78	N/A	N/A	N/A	N/A	N/A	N/A	5019849
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.000100	N/A	N/A
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	91	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'55'6'-NonaCB-(206)	%	92	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'5'-HeptaCB-(170)	%	117 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'455'66'-NonaCB-(208)	%	99	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'66'-OctaCB-(202)	%	137 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'6'-HeptaCB-(178)	%	102	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'344'55'-HeptaCB-(180)	%	119 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'34'566'-HeptaCB-(188)	%	82	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'44'66'-HexaCB-(155)	%	87	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'466'-PentaCB-(104)	%	81	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'66'-TetraCB-(54)	%	65	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'6'-TriCB-(19)	%	60	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY563							
Sampling Date		2017/04/24 11:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-OYS-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-22'-DiCB-(4)	%	50	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'6-OctaCB-(205)	%	85	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'-HeptaCB-(189)	%	91	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'-PentaCB-(105)	%	75	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'55'-PentaCB-(111)	%	95	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'55'-HexaCB-(167)	%	70	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2344'5-PentaCB-(114)	%	73	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'5-PentaCB-(118)	%	76	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2'344'5-PentaCB-(123)	%	79	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2-MonoCB-(1)	%	39	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'55'-HexaCB-(169)	%	36	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'5-PentaCB-(126)	%	72	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'-TetraCB-(77)	%	73	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'5-TetraCB-(81)	%	73	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'-TriCB-(37)	%	72	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-44'-DiCB-(15)	%	69	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-4-MonoCB-(3)	%	49	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-DecaCB-(209)	%	92	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-HexaCB-(156)+(157)	%	66	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY564							
Sampling Date		2017/04/25 11:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-COC-COC-170425	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch

PCBs									
2-MonoCB-(1)	ng/g	0.0010 U	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
3-MonoCB-(2)	ng/g	0.00082 U	0.00082	0.010	N/A	N/A	N/A	N/A	5019849
4-MonoCB-(3)	ng/g	0.0010 U	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
2,2'-DiCB-(4)	ng/g	0.0032 U	0.0032	0.010	N/A	N/A	N/A	N/A	5019849
2,3-DiCB-(5)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	5019849
2,3'-DiCB-(6)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
2,4-DiCB-(7)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
2,4'-DiCB-(8)	ng/g	0.00096 UQ	0.00096	0.010	N/A	N/A	N/A	N/A	5019849
2,5-DiCB-(9)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
2,6-DiCB-(10)	ng/g	0.0033 U	0.0033	0.010	N/A	N/A	N/A	N/A	5019849
3,3'-DiCB-(11)	ng/g	0.0131	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
DiCB-(12)+(13)	ng/g	0.0012 U	0.0012	0.020	N/A	N/A	N/A	N/A	5019849
3,5-DiCB-(14)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
4,4'-DiCB-(15)	ng/g	0.0019 U	0.0019	0.010	N/A	N/A	N/A	N/A	5019849
2,2',3-TriCB-(16)	ng/g	0.0061 U	0.0061	0.010	N/A	N/A	N/A	N/A	5019849
2,2',4-TriCB-(17)	ng/g	0.0047 U	0.0047	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(18)+(30)	ng/g	0.0037 U	0.0037	0.020	N/A	N/A	N/A	N/A	5019849
2,2',6-TriCB-(19)	ng/g	0.0033 U	0.0033	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(20) + (28)	ng/g	0.00835 J	0.00096	0.020	N/A	N/A	N/A	N/A	5019849
TriCB-(21)+(33)	ng/g	0.0030 U (1)	0.0030	0.020	N/A	N/A	N/A	N/A	5019849
2,3,4'-TriCB-(22)	ng/g	0.0022 U (1)	0.0022	0.010	N/A	N/A	N/A	N/A	5019849
2,3,5-TriCB-(23)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
2,3,6-TriCB-(24)	ng/g	0.0032 U	0.0032	0.010	N/A	N/A	N/A	N/A	5019849
2,3',4-TriCB-(25)	ng/g	0.00099 U	0.00099	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(26)+(29)	ng/g	0.00104 J	0.00096	0.020	N/A	N/A	N/A	N/A	5019849
2,3',6-TriCB-(27)	ng/g	0.0033 U	0.0033	0.010	N/A	N/A	N/A	N/A	5019849
2,4',5-TriCB-(31)	ng/g	0.0033 UQ (1)	0.0033	0.010	N/A	N/A	N/A	N/A	5019849
2,4',6-TriCB-(32)	ng/g	0.0029 U	0.0029	0.010	N/A	N/A	N/A	N/A	5019849
2,3',5'-TriCB-(34)	ng/g	0.00098 U	0.00098	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY564							
Sampling Date		2017/04/25 11:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-COC-COC-170425	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'4'-TriCB-(35)	ng/g	0.0010 U	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
33'5'-TriCB-(36)	ng/g	0.00086 U	0.00086	0.010	N/A	N/A	N/A	N/A	5019849
344'-TriCB-(37)	ng/g	0.0018 U (1)	0.0018	0.010	N/A	N/A	N/A	N/A	5019849
345'-TriCB-(38)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
34'5'-TriCB-(39)	ng/g	0.00096 U	0.00096	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(40)+(41)+(71)	ng/g	0.0042 U (1)	0.0042	0.030	N/A	N/A	N/A	N/A	5019849
22'34'-TetraCB-(42)	ng/g	0.0039 U	0.0039	0.010	N/A	N/A	N/A	N/A	5019849
22'35'-TetraCB-(43)	ng/g	0.0045 U	0.0045	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(44)+(47)+(65)	ng/g	0.0130 J	0.0030	0.030	N/A	N/A	N/A	N/A	5019849
TetraCB-(45)+(51)	ng/g	0.0033 UQ	0.0033	0.020	N/A	N/A	N/A	N/A	5019849
22'36'-TetraCB-(46)	ng/g	0.0040 U	0.0040	0.010	N/A	N/A	N/A	N/A	5019849
22'45'-TetraCB-(48)	ng/g	0.0033 U	0.0033	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(49)+TetraCB-(69)	ng/g	0.0043 U (1)	0.0043	0.020	N/A	N/A	N/A	N/A	5019849
TetraCB-(50)+(53)	ng/g	0.0031 U	0.0031	0.020	N/A	N/A	N/A	N/A	5019849
22'55'-TetraCB-(52)	ng/g	0.0147 Q	0.0032	0.010	N/A	N/A	N/A	N/A	5019849
22'66'-TetraCB-(54)	ng/g	0.00083 U	0.00083	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-TetraCB-(55)	ng/g	0.0025 U	0.0025	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-Tetra CB(56)	ng/g	0.0036 JQ	0.0025	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(57)	ng/g	0.0021 U	0.0021	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(58)	ng/g	0.0022 U	0.0022	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(59)+(62)+(75)	ng/g	0.0024 U	0.0024	0.030	N/A	N/A	N/A	N/A	5019849
2344'-TetraCB -(60)	ng/g	0.0027 U	0.0027	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.0152 J	0.0023	0.040	N/A	N/A	N/A	N/A	5019849
234'5'-TetraCB-(63)	ng/g	0.0021 UQ	0.0021	0.010	N/A	N/A	N/A	N/A	5019849
234'6'-TetraCB-(64)	ng/g	0.0042 U (1)	0.0042	0.010	N/A	N/A	N/A	N/A	5019849
23'44'-TetraCB-(66)	ng/g	0.0106	0.0022	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(67)	ng/g	0.0021 U	0.0021	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(68)	ng/g	0.0019 U	0.0019	0.010	N/A	N/A	N/A	N/A	5019849
23'55'-TetraCB-(72)	ng/g	0.0020 U	0.0020	0.010	N/A	N/A	N/A	N/A	5019849
23'5'6'-TetraCB-(73)	ng/g	0.0023 U	0.0023	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY564							
Sampling Date		2017/04/25 11:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-COC-COC-170425	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'44'-TetraCB-(77)	ng/g	0.0032 U	0.0032	0.010	N/A	0.000100	0.000000320	N/A	5019849
33'45'-TetraCB-(78)	ng/g	0.0025 U	0.0025	0.010	N/A	N/A	N/A	N/A	5019849
33'45'-TetraCB(79)	ng/g	0.0021 U	0.0021	0.010	N/A	N/A	N/A	N/A	5019849
33'55'-TetraCB-(80)	ng/g	0.0022 U	0.0022	0.010	N/A	N/A	N/A	N/A	5019849
344'5'-TetraCB-(81)	ng/g	0.0031 U	0.0031	0.010	N/A	0.000300	0.000000930	N/A	5019849
22'33'4'-PentaCB-(82)	ng/g	0.0025 UQ (1)	0.0025	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(83)+(99)	ng/g	0.0202	0.0021	0.020	N/A	N/A	N/A	N/A	5019849
22'33'6'-PentaCB-(84)	ng/g	0.0041 U (1)	0.0041	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(85)+(116)+(117)	ng/g	0.0058 U (1)	0.0058	0.030	N/A	N/A	N/A	N/A	5019849
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.0120 J	0.0017	0.060	N/A	N/A	N/A	N/A	5019849
PentaCB-(88)+(91)	ng/g	0.0027 J	0.0019	0.020	N/A	N/A	N/A	N/A	5019849
22'346'-PentaCB-(89)	ng/g	0.0021 U	0.0021	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(90)+(101)+(113)	ng/g	0.0307	0.0018	0.030	N/A	N/A	N/A	N/A	5019849
22'355'-PentaCB-(92)	ng/g	0.0048 JQ	0.0021	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.0019 U	0.0019	0.040	N/A	N/A	N/A	N/A	5019849
22'356'-PentaCB-(94)	ng/g	0.0020 U	0.0020	0.010	N/A	N/A	N/A	N/A	5019849
22'35'6'-PentaCB-(95)	ng/g	0.0127 Q	0.0018	0.010	N/A	N/A	N/A	N/A	5019849
22'366'-PentaCB-(96)	ng/g	0.0013 U	0.0013	0.010	N/A	N/A	N/A	N/A	5019849
22'45'6'-PentaCB-(103)	ng/g	0.0016 U	0.0016	0.010	N/A	N/A	N/A	N/A	5019849
22'466'-PentaCB-(104)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
233'44'-PentaCB-(105)	ng/g	0.0107	0.0028	0.010	N/A	0.0000300	0.000000321	N/A	5019849
233'45'-PentaCB-(106)	ng/g	0.0024 U	0.0024	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(107)	ng/g	0.0026 J	0.0021	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(108)+(124)	ng/g	0.0023 U	0.0023	0.020	N/A	N/A	N/A	N/A	5019849
PentaCB-(110)+(115)	ng/g	0.0266	0.0017	0.020	N/A	N/A	N/A	N/A	5019849
233'55'-PentaCB-(111)	ng/g	0.0015 U	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
233'56'-PentaCB-(112)	ng/g	0.0015 U	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
2344'5'-PentaCB-(114)	ng/g	0.0028 U	0.0028	0.010	N/A	0.0000300	0.0000000840	N/A	5019849
23'44'5'-PentaCB-(118)	ng/g	0.0243	0.0028	0.010	N/A	0.0000300	0.000000729	N/A	5019849
23'455'-PentaCB-(120)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY564							
Sampling Date		2017/04/25 11:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-COC-COC-170425	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'45'6'-PentaCB-(121)	ng/g	0.0015 U	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(122)	ng/g	0.0024 U	0.0024	0.010	N/A	N/A	N/A	N/A	5019849
23'44'5'-PentaCB-(123)	ng/g	0.0031 U	0.0031	0.010	N/A	0.0000300	0.0000000930	N/A	5019849
33'44'5'-PentaCB-(126)	ng/g	0.0026 U	0.0026	0.010	N/A	0.100	0.000260	N/A	5019849
33'45'5'-PentaCB-(127)	ng/g	0.0022 U	0.0022	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(128)+(166)	ng/g	0.0063 U (1)	0.0063	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(129)+(138)+(163)	ng/g	0.0624 Q	0.0050	0.030	N/A	N/A	N/A	N/A	5019849
22'33'45'-HexaCB-(130)	ng/g	0.0059 U	0.0059	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(131)	ng/g	0.0067 U	0.0067	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(132)	ng/g	0.011 U (1)	0.011	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'-HexaCB-(133)	ng/g	0.0054 U	0.0054	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(134)+(143)	ng/g	0.0061 U	0.0061	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(135)+(151)	ng/g	0.0147 J	0.0050	0.020	N/A	N/A	N/A	N/A	5019849
22'33'66'-HexaCB-(136)	ng/g	0.0034 U	0.0034	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'-HexaCB-(137)	ng/g	0.0055 U	0.0055	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(139)+(140)	ng/g	0.0050 U	0.0050	0.020	N/A	N/A	N/A	N/A	5019849
22'3455'-HexaCB-(141)	ng/g	0.0056 U	0.0056	0.010	N/A	N/A	N/A	N/A	5019849
22'3456'-HexaCB-(142)	ng/g	0.0060 U	0.0060	0.010	N/A	N/A	N/A	N/A	5019849
22'345'6'-HexaCB-(144)	ng/g	0.0047 U	0.0047	0.010	N/A	N/A	N/A	N/A	5019849
22'3466'-HexaCB-(145)	ng/g	0.0037 U	0.0037	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'-HexaCB-(146)	ng/g	0.0088 JQ	0.0045	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(147)+(149)	ng/g	0.0385	0.0049	0.020	N/A	N/A	N/A	N/A	5019849
22'34'56'-HexaCB-(148)	ng/g	0.0046 U	0.0046	0.010	N/A	N/A	N/A	N/A	5019849
22'34'66'-HexaCB-(150)	ng/g	0.0034 U	0.0034	0.010	N/A	N/A	N/A	N/A	5019849
22'3566'-HexaCB-(152)	ng/g	0.0034 U	0.0034	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(153)+(168)	ng/g	0.0541 B	0.0039	0.010	N/A	N/A	N/A	N/A	5019849
22'44'56'-HexaCB-(154)	ng/g	0.0041 U	0.0041	0.010	N/A	N/A	N/A	N/A	5019849
22'44'66'-HexaCB-(155)	ng/g	0.0029 U	0.0029	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(156)+(157)	ng/g	0.0030 JQ	0.0026	0.020	N/A	0.0000300	0.0000000900	N/A	5019849
233'44'6'-HexaCB-(158)	ng/g	0.0052 JQ	0.0036	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY564							
Sampling Date		2017/04/25 11:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-COC-COC-170425	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'455'-HexaCB-(159)	ng/g	0.0022 U	0.0022	0.010	N/A	N/A	N/A	N/A	5019849
233'456'-HexaCB-(160)	ng/g	0.0042 U	0.0042	0.010	N/A	N/A	N/A	N/A	5019849
233'45'6'-HexaCB-(161)	ng/g	0.0039 U	0.0039	0.010	N/A	N/A	N/A	N/A	5019849
233'4'55'-HexaCB-(162)	ng/g	0.0022 U	0.0022	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'6'-HexaCB-(164)	ng/g	0.0038 U	0.0038	0.010	N/A	N/A	N/A	N/A	5019849
233'55'6'-HexaCB-(165)	ng/g	0.0043 U	0.0043	0.010	N/A	N/A	N/A	N/A	5019849
23'44'55'-HexaCB-(167)	ng/g	0.0025 U	0.0025	0.010	N/A	0.0000300	0.0000000750	N/A	5019849
33'44'55'-HexaCB-(169)	ng/g	0.0026 U	0.0026	0.010	N/A	0.0300	0.0000780	N/A	5019849
22'33'44'5'-HeptaCB-(170)	ng/g	0.0076 JQ	0.0045	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(171)+(173)	ng/g	0.0067 U	0.0067	0.020	N/A	N/A	N/A	N/A	5019849
22'33'455'-HeptaCB-(172)	ng/g	0.0066 U	0.0066	0.010	N/A	N/A	N/A	N/A	5019849
22'33'456'-HeptaCB-(174)	ng/g	0.0067 U (1)	0.0067	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(175)	ng/g	0.0064 U	0.0064	0.010	N/A	N/A	N/A	N/A	5019849
22'33'466'-HeptaCB-(176)	ng/g	0.0052 U	0.0052	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(177)	ng/g	0.0101 Q	0.0065	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'6'-HeptaCB-(178)	ng/g	0.0072 UQ	0.0072	0.010	N/A	N/A	N/A	N/A	5019849
22'33'566'-HeptaCB-(179)	ng/g	0.0051 U	0.0051	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(180)+(193)	ng/g	0.0170 J	0.0046	0.020	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(181)	ng/g	0.0065 U	0.0065	0.010	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(182)	ng/g	0.0069 U	0.0069	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'6'-HeptaCB-(183)	ng/g	0.0076 JQ	0.0055	0.010	N/A	N/A	N/A	N/A	5019849
22'344'66'-HeptaCB-(184)	ng/g	0.0048 U	0.0048	0.010	N/A	N/A	N/A	N/A	5019849
22'3455'6'-HeptaCB-(185)	ng/g	0.0066 U	0.0066	0.010	N/A	N/A	N/A	N/A	5019849
22'34566'-HeptaCB-(186)	ng/g	0.0054 U	0.0054	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'6'-HeptaCB-(187)	ng/g	0.0189 Q	0.0065	0.010	N/A	N/A	N/A	N/A	5019849
22'34'566'-HeptaCB-(188)	ng/g	0.0055 U	0.0055	0.010	N/A	N/A	N/A	N/A	5019849
233'44'55'-HeptaCB-(189)	ng/g	0.0022 U	0.0022	0.010	N/A	0.0000300	0.0000000660	N/A	5019849
233'44'56'-HeptaCB-(190)	ng/g	0.0051 U	0.0051	0.010	N/A	N/A	N/A	N/A	5019849
233'44'5'6'-HeptaCB-(191)	ng/g	0.0047 U	0.0047	0.010	N/A	N/A	N/A	N/A	5019849
233'455'6'-HeptaCB-(192)	ng/g	0.0053 U	0.0053	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY564							
Sampling Date		2017/04/25 11:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-COC-COC-170425	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'33'44'55'-OctaCB-(194)	ng/g	0.0073 U	0.0073	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(195)	ng/g	0.0076 U	0.0076	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(196)	ng/g	0.016 U	0.016	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'66'-OctaCB-(197)	ng/g	0.011 U	0.011	0.010	N/A	N/A	N/A	N/A	5019849
OctaCB-(198)+(199)	ng/g	0.017 U	0.017	0.020	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(200)	ng/g	0.013 U	0.013	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(201)	ng/g	0.011 U	0.011	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'66'-OctaCB-(202)	ng/g	0.012 U	0.012	0.010	N/A	N/A	N/A	N/A	5019849
22'344'55'6'-OctaCB-(203)	ng/g	0.016 U	0.016	0.010	N/A	N/A	N/A	N/A	5019849
22'344'56'6'-OctaCB-(204)	ng/g	0.011 U	0.011	0.010	N/A	N/A	N/A	N/A	5019849
233'44'55'6'-OctaCB-(205)	ng/g	0.0060 U	0.0060	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'55'6'-NonaCB-(206)	ng/g	0.0079 U	0.0079	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'56'6'-NonaCB-(207)	ng/g	0.0062 U	0.0062	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'56'6'-NonaCB-(208)	ng/g	0.0078 U	0.0078	0.010	N/A	N/A	N/A	N/A	5019849
DecaCB-(209)	ng/g	0.011 U	0.011	0.010	N/A	N/A	N/A	N/A	5019849
Total PCB	ng/g	0.475	N/A	N/A	N/A	N/A	N/A	N/A	5019849
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.000341	N/A	N/A
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	75	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'55'6'-NonaCB-(206)	%	79	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'5'-HeptaCB-(170)	%	125 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'45'56'6'-NonaCB-(208)	%	102	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'66'-OctaCB-(202)	%	132 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'6'-HeptaCB-(178)	%	85	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'344'55'-HeptaCB-(180)	%	125 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'34'56'6'-HeptaCB-(188)	%	92	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'44'66'-HexaCB-(155)	%	84	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'46'6'-PentaCB-(104)	%	68	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'66'-TetraCB-(54)	%	47	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'6-TriCB-(19)	%	36	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'-DiCB-(4)	%	33	N/A	N/A	N/A	N/A	N/A	N/A	5019849

EDL = Estimated Detection Limit
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The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
QC Batch = Quality Control Batch
N/A = Not Applicable

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY564							
Sampling Date		2017/04/25 11:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-COC-COC-170425	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-233'44'55'6-OctaCB-(205)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'-HeptaCB-(189)	%	121	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'-PentaCB-(105)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'55'-PentaCB-(111)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'55'-HexaCB-(167)	%	84	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2344'5'-PentaCB-(114)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'5'-PentaCB-(118)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2'344'5'-PentaCB-(123)	%	102	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2-MonoCB-(1)	%	32	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'55'-HexaCB-(169)	%	47	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'5'-PentaCB-(126)	%	101	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'-TetraCB-(77)	%	107	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'5'-TetraCB-(81)	%	101	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'-TriCB-(37)	%	89	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-44'-DiCB-(15)	%	58	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-4-MonoCB-(3)	%	35	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-DecaCB-(209)	%	67	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-HexaCB-(156)+(157)	%	79	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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QC Batch = Quality Control Batch

N/A = Not Applicable

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY565							
Sampling Date		2017/04/24 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-LTN-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch

PCBs									
2-MonoCB-(1)	ng/g	0.0012 U	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
3-MonoCB-(2)	ng/g	0.0010 U	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
4-MonoCB-(3)	ng/g	0.0012 U	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
2,2'-DiCB-(4)	ng/g	0.0085 J	0.0035	0.010	N/A	N/A	N/A	N/A	5019849
2,3-DiCB-(5)	ng/g	0.0012 U	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
2,3'-DiCB-(6)	ng/g	0.00091 U	0.00091	0.010	N/A	N/A	N/A	N/A	5019849
2,4-DiCB-(7)	ng/g	0.00096 U	0.00096	0.010	N/A	N/A	N/A	N/A	5019849
2,4'-DiCB-(8)	ng/g	0.0017 UQ (1)	0.0017	0.010	N/A	N/A	N/A	N/A	5019849
2,5-DiCB-(9)	ng/g	0.00089 U	0.00089	0.010	N/A	N/A	N/A	N/A	5019849
2,6-DiCB-(10)	ng/g	0.0034 U	0.0034	0.010	N/A	N/A	N/A	N/A	5019849
3,3'-DiCB-(11)	ng/g	0.00877 J	0.00093	0.010	N/A	N/A	N/A	N/A	5019849
DiCB-(12)+(13)	ng/g	0.00096 U	0.00096	0.020	N/A	N/A	N/A	N/A	5019849
3,5-DiCB-(14)	ng/g	0.00089 U	0.00089	0.010	N/A	N/A	N/A	N/A	5019849
4,4'-DiCB-(15)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	5019849
2,2',3-TriCB-(16)	ng/g	0.0023 U	0.0023	0.010	N/A	N/A	N/A	N/A	5019849
2,2',4-TriCB-(17)	ng/g	0.0046 J	0.0020	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(18)+(30)	ng/g	0.0199 J	0.0016	0.020	N/A	N/A	N/A	N/A	5019849
2,2',6-TriCB-(19)	ng/g	0.0016 U	0.0016	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(20) + (28)	ng/g	0.00433 J	0.00058	0.020	N/A	N/A	N/A	N/A	5019849
TriCB-(21)+(33)	ng/g	0.00792 J	0.00058	0.020	N/A	N/A	N/A	N/A	5019849
2,3,4'-TriCB-(22)	ng/g	0.00071 J	0.00063	0.010	N/A	N/A	N/A	N/A	5019849
2,3,5-TriCB-(23)	ng/g	0.00062 U	0.00062	0.010	N/A	N/A	N/A	N/A	5019849
2,3,6-TriCB-(24)	ng/g	0.0015 U	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
2,3',4-TriCB-(25)	ng/g	0.00058 U	0.00058	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(26)+(29)	ng/g	0.0021 U (1)	0.0021	0.020	N/A	N/A	N/A	N/A	5019849
2,3',6-TriCB-(27)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	5019849
2,4',5-TriCB-(31)	ng/g	0.00486 JQ	0.00056	0.010	N/A	N/A	N/A	N/A	5019849
2,4',6-TriCB-(32)	ng/g	0.0013 U	0.0013	0.010	N/A	N/A	N/A	N/A	5019849
2,3',5'-TriCB-(34)	ng/g	0.00060 U	0.00060	0.010	N/A	N/A	N/A	N/A	5019849

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WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY565							
Sampling Date		2017/04/24 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-LTN-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'4'-TriCB-(35)	ng/g	0.00060 U	0.00060	0.010	N/A	N/A	N/A	N/A	5019849
33'5'-TriCB-(36)	ng/g	0.00051 U	0.00051	0.010	N/A	N/A	N/A	N/A	5019849
344'-TriCB-(37)	ng/g	0.00086 U	0.00086	0.010	N/A	N/A	N/A	N/A	5019849
345'-TriCB-(38)	ng/g	0.00058 U	0.00058	0.010	N/A	N/A	N/A	N/A	5019849
34'5'-TriCB-(39)	ng/g	0.00057 U	0.00057	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(40)+(41)+(71)	ng/g	0.0017 J	0.0013	0.030	N/A	N/A	N/A	N/A	5019849
22'34'-TetraCB-(42)	ng/g	0.0015 U	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
22'35'-TetraCB-(43)	ng/g	0.0018 U	0.0018	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(44)+(47)+(65)	ng/g	0.0074 J	0.0012	0.030	N/A	N/A	N/A	N/A	5019849
TetraCB-(45)+(51)	ng/g	0.0013 UQ	0.0013	0.020	N/A	N/A	N/A	N/A	5019849
22'36'-TetraCB-(46)	ng/g	0.0015 U	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
22'45'-TetraCB-(48)	ng/g	0.0180	0.0013	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(49)+TetraCB-(69)	ng/g	0.0059 U (1)	0.0059	0.020	N/A	N/A	N/A	N/A	5019849
TetraCB-(50)+(53)	ng/g	0.0013 U	0.0013	0.020	N/A	N/A	N/A	N/A	5019849
22'55'-TetraCB-(52)	ng/g	0.0334 Q	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
22'66'-TetraCB-(54)	ng/g	0.00024 U	0.00024	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-TetraCB-(55)	ng/g	0.00060 U	0.00060	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-Tetra CB(56)	ng/g	0.00082 JQ	0.00058	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(57)	ng/g	0.00055 U	0.00055	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(58)	ng/g	0.00059 U	0.00059	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(59)+(62)+(75)	ng/g	0.00099 U	0.00099	0.030	N/A	N/A	N/A	N/A	5019849
2344'-TetraCB -(60)	ng/g	0.00060 U	0.00060	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.0116 J	0.00056	0.040	N/A	N/A	N/A	N/A	5019849
234'5'-TetraCB-(63)	ng/g	0.00053 UQ	0.00053	0.010	N/A	N/A	N/A	N/A	5019849
234'6'-TetraCB-(64)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
23'44'-TetraCB-(66)	ng/g	0.00257 J	0.00055	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(67)	ng/g	0.00058 U (1)	0.00058	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(68)	ng/g	0.00085 U (1)	0.00085	0.010	N/A	N/A	N/A	N/A	5019849
23'55'-TetraCB-(72)	ng/g	0.00053 U	0.00053	0.010	N/A	N/A	N/A	N/A	5019849
23'5'6'-TetraCB-(73)	ng/g	0.00093 U	0.00093	0.010	N/A	N/A	N/A	N/A	5019849

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N/A = Not Applicable

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY565							
Sampling Date		2017/04/24 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-LTN-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'44'-TetraCB-(77)	ng/g	0.00075 U	0.00075	0.010	N/A	0.000100	0.0000000750	N/A	5019849
33'45'-TetraCB-(78)	ng/g	0.00055 U	0.00055	0.010	N/A	N/A	N/A	N/A	5019849
33'45'-TetraCB(79)	ng/g	0.00049 U	0.00049	0.010	N/A	N/A	N/A	N/A	5019849
33'55'-TetraCB-(80)	ng/g	0.00050 U	0.00050	0.010	N/A	N/A	N/A	N/A	5019849
344'5'-TetraCB-(81)	ng/g	0.00074 U	0.00074	0.010	N/A	0.000300	0.000000222	N/A	5019849
22'33'4'-PentaCB-(82)	ng/g	0.0015 UQ	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(83)+(99)	ng/g	0.0071 J	0.0013	0.020	N/A	N/A	N/A	N/A	5019849
22'33'6'-PentaCB-(84)	ng/g	0.0015 U	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(85)+(116)+(117)	ng/g	0.0018 J	0.0011	0.030	N/A	N/A	N/A	N/A	5019849
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.0050 J	0.0012	0.060	N/A	N/A	N/A	N/A	5019849
PentaCB-(88)+(91)	ng/g	0.0014 U	0.0014	0.020	N/A	N/A	N/A	N/A	5019849
22'346'-PentaCB-(89)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(90)+(101)+(113)	ng/g	0.0785	0.0012	0.030	N/A	N/A	N/A	N/A	5019849
22'355'-PentaCB-(92)	ng/g	0.0028 UQ (1)	0.0028	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.0014 U	0.0014	0.040	N/A	N/A	N/A	N/A	5019849
22'356'-PentaCB-(94)	ng/g	0.0015 U	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
22'35'6'-PentaCB-(95)	ng/g	0.0035 JQ	0.0013	0.010	N/A	N/A	N/A	N/A	5019849
22'366'-PentaCB-(96)	ng/g	0.00029 U	0.00029	0.010	N/A	N/A	N/A	N/A	5019849
22'45'6'-PentaCB-(103)	ng/g	0.0012 U	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
22'466'-PentaCB-(104)	ng/g	0.00020 U	0.00020	0.010	N/A	N/A	N/A	N/A	5019849
233'44'-PentaCB-(105)	ng/g	0.00272 J	0.00089	0.010	N/A	0.0000300	0.0000000816	N/A	5019849
233'45'-PentaCB-(106)	ng/g	0.00072 U	0.00072	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(107)	ng/g	0.00100 J	0.00075	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(108)+(124)	ng/g	0.00077 U	0.00077	0.020	N/A	N/A	N/A	N/A	5019849
PentaCB-(110)+(115)	ng/g	0.0052 J	0.0011	0.020	N/A	N/A	N/A	N/A	5019849
233'55'-PentaCB-(111)	ng/g	0.0010 U	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
233'56'-PentaCB-(112)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
2344'5'-PentaCB-(114)	ng/g	0.00089 U	0.00089	0.010	N/A	0.0000300	0.0000000267	N/A	5019849
23'44'5'-PentaCB-(118)	ng/g	0.00867 J	0.00089	0.010	N/A	0.0000300	0.000000260	N/A	5019849
23'455'-PentaCB-(120)	ng/g	0.00094 U	0.00094	0.010	N/A	N/A	N/A	N/A	5019849

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N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY565							
Sampling Date		2017/04/24 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-LTN-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'45'6-PentaCB-(121)	ng/g	0.0010 U	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(122)	ng/g	0.00079 U	0.00079	0.010	N/A	N/A	N/A	N/A	5019849
23'44'5'-PentaCB-(123)	ng/g	0.00099 U	0.00099	0.010	N/A	0.0000300	0.0000000297	N/A	5019849
33'44'5'-PentaCB-(126)	ng/g	0.00084 U	0.00084	0.010	N/A	0.100	0.0000840	N/A	5019849
33'455'-PentaCB-(127)	ng/g	0.00073 U	0.00073	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(128)+(166)	ng/g	0.0031 J	0.0012	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(129)+(138)+(163)	ng/g	0.0294 JQ	0.0013	0.030	N/A	N/A	N/A	N/A	5019849
22'33'45'-HexaCB-(130)	ng/g	0.0019 J	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(131)	ng/g	0.0017 U	0.0017	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(132)	ng/g	0.0028 U (1)	0.0028	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'-HexaCB-(133)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(134)+(143)	ng/g	0.0016 U	0.0016	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(135)+(151)	ng/g	0.0048 J	0.0013	0.020	N/A	N/A	N/A	N/A	5019849
22'33'66'-HexaCB-(136)	ng/g	0.00093 U	0.00093	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'-HexaCB-(137)	ng/g	0.0015 U	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(139)+(140)	ng/g	0.0014 U	0.0014	0.020	N/A	N/A	N/A	N/A	5019849
22'3455'-HexaCB-(141)	ng/g	0.0030 J	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
22'3456'-HexaCB-(142)	ng/g	0.0015 U	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
22'345'6'-HexaCB-(144)	ng/g	0.0012 U	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
22'3466'-HexaCB-(145)	ng/g	0.0010 U	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'-HexaCB-(146)	ng/g	0.0103 Q	0.0013	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(147)+(149)	ng/g	0.0098 J	0.0014	0.020	N/A	N/A	N/A	N/A	5019849
22'34'56'-HexaCB-(148)	ng/g	0.0012 U	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
22'34'66'-HexaCB-(150)	ng/g	0.00091 U	0.00091	0.010	N/A	N/A	N/A	N/A	5019849
22'3566'-HexaCB-(152)	ng/g	0.00093 U	0.00093	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(153)+(168)	ng/g	0.0350 B	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
22'44'56'-HexaCB-(154)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
22'44'66'-HexaCB-(155)	ng/g	0.00069 U	0.00069	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(156)+(157)	ng/g	0.00160 JQ	0.00073	0.020	N/A	0.0000300	0.0000000480	N/A	5019849
233'44'6'-HexaCB-(158)	ng/g	0.0022 JQ	0.0010	0.010	N/A	N/A	N/A	N/A	5019849

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QC Batch = Quality Control Batch

N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY565							
Sampling Date		2017/04/24 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-LTN-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'455'-HexaCB-(159)	ng/g	0.00064 U	0.00064	0.010	N/A	N/A	N/A	N/A	5019849
233'456'-HexaCB-(160)	ng/g	0.0012 U	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
233'45'6'-HexaCB-(161)	ng/g	0.00099 U	0.00099	0.010	N/A	N/A	N/A	N/A	5019849
233'4'55'-HexaCB-(162)	ng/g	0.00065 U	0.00065	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'6'-HexaCB-(164)	ng/g	0.0011 U (1)	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
233'55'6'-HexaCB-(165)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
23'44'55'-HexaCB-(167)	ng/g	0.00075 U (1)	0.00075	0.010	N/A	0.0000300	0.0000000225	N/A	5019849
33'44'55'-HexaCB-(169)	ng/g	0.00073 U	0.00073	0.010	N/A	0.0300	0.0000219	N/A	5019849
22'33'44'5'-HeptaCB-(170)	ng/g	0.00623 JQ	0.00076	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(171)+(173)	ng/g	0.0019 U (1)	0.0019	0.020	N/A	N/A	N/A	N/A	5019849
22'33'455'-HeptaCB-(172)	ng/g	0.0014 J	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
22'33'456'-HeptaCB-(174)	ng/g	0.00486 J	0.00099	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(175)	ng/g	0.00098 U	0.00098	0.010	N/A	N/A	N/A	N/A	5019849
22'33'466'-HeptaCB-(176)	ng/g	0.00075 U	0.00075	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(177)	ng/g	0.0052 JQ	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'6'-HeptaCB-(178)	ng/g	0.0039 JQ	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
22'33'566'-HeptaCB-(179)	ng/g	0.0012 U (1)	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(180)+(193)	ng/g	0.0148 J	0.00076	0.020	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(181)	ng/g	0.00099 U	0.00099	0.010	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(182)	ng/g	0.00098 U	0.00098	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'6'-HeptaCB-(183)	ng/g	0.00515 JQ	0.00081	0.010	N/A	N/A	N/A	N/A	5019849
22'344'66'-HeptaCB-(184)	ng/g	0.00074 U	0.00074	0.010	N/A	N/A	N/A	N/A	5019849
22'3455'6'-HeptaCB-(185)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
22'34566'-HeptaCB-(186)	ng/g	0.00081 U	0.00081	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'6'-HeptaCB-(187)	ng/g	0.0176 Q	0.00097	0.010	N/A	N/A	N/A	N/A	5019849
22'34'566'-HeptaCB-(188)	ng/g	0.00074 U	0.00074	0.010	N/A	N/A	N/A	N/A	5019849
233'44'55'-HeptaCB-(189)	ng/g	0.0011 U	0.0011	0.010	N/A	0.0000300	0.0000000330	N/A	5019849
233'44'56'-HeptaCB-(190)	ng/g	0.00074 U	0.00074	0.010	N/A	N/A	N/A	N/A	5019849
233'44'5'6'-HeptaCB-(191)	ng/g	0.00074 U	0.00074	0.010	N/A	N/A	N/A	N/A	5019849
233'455'6'-HeptaCB-(192)	ng/g	0.00082 U	0.00082	0.010	N/A	N/A	N/A	N/A	5019849

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N/A = Not Applicable

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY565							
Sampling Date		2017/04/24 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-LTN-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'33'44'55'-OctaCB-(194)	ng/g	0.0038 U (1)	0.0038	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(195)	ng/g	0.0024 U (2)	0.0024	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(196)	ng/g	0.0043 U (2)	0.0043	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'66'-OctaCB-(197)	ng/g	0.0033 U (2)	0.0033	0.050	N/A	N/A	N/A	N/A	5019849
OctaCB-(198)+(199)	ng/g	0.0076 J (2)	0.0045	0.10	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(200)	ng/g	0.0035 U (2)	0.0035	0.050	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(201)	ng/g	0.0033 U (2)	0.0033	0.050	N/A	N/A	N/A	N/A	5019849
22'33'55'66'-OctaCB-(202)	ng/g	0.0034 U (2)	0.0034	0.050	N/A	N/A	N/A	N/A	5019849
22'344'55'6'-OctaCB-(203)	ng/g	0.0043 U (2)	0.0043	0.050	N/A	N/A	N/A	N/A	5019849
22'344'56'6'-OctaCB-(204)	ng/g	0.0033 U (2)	0.0033	0.050	N/A	N/A	N/A	N/A	5019849
233'44'55'6'-OctaCB-(205)	ng/g	0.00051 U	0.00051	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'55'6'-NonaCB-(206)	ng/g	0.0049 U (3)	0.0049	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'56'6'-NonaCB-(207)	ng/g	0.00096 U	0.00096	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-NonaCB-(208)	ng/g	0.0027 J	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
DecaCB-(209)	ng/g	0.0056 U (3)	0.0056	0.010	N/A	N/A	N/A	N/A	5019849
Total PCB	ng/g	0.419	N/A	N/A	N/A	N/A	N/A	N/A	5019849
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.000107	N/A	N/A

Surrogate Recovery (%)

C13-2,44'-TriCB-(28)	%	65	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'55'6'-NonaCB-(206)	%	91	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'5'-HeptaCB-(170)	%	134 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'45'66'-NonaCB-(208)	%	113	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'66'-OctaCB-(202)	%	98 Q (2)	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'6'-HeptaCB-(178)	%	88	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'344'55'-HeptaCB-(180)	%	142 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'34'56'6'-HeptaCB-(188)	%	99	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'44'66'-HexaCB-(155)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

** From 5X Dilution **

(2) ** From 5X Dilution **

(3) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY565							
Sampling Date		2017/04/24 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-LTN-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-22'466'-PentaCB-(104)	%	89	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'66'-TetraCB-(54)	%	57	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'6-TriCB-(19)	%	51	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'-DiCB-(4)	%	42	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'6-OctaCB-(205)	%	95	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'-HeptaCB-(189)	%	108	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'-PentaCB-(105)	%	99	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'55'-PentaCB-(111)	%	90	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'55'-HexaCB-(167)	%	76	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2344'5-PentaCB-(114)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'5-PentaCB-(118)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2'344'5-PentaCB-(123)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2-MonoCB-(1)	%	38	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'55'-HexaCB-(169)	%	32	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'5-PentaCB-(126)	%	89	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'-TetraCB-(77)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'5-TetraCB-(81)	%	96	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'-TriCB-(37)	%	84	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-44'-DiCB-(15)	%	60	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-4-MonoCB-(3)	%	40	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-DecaCB-(209)	%	81	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-HexaCB-(156)+(157)	%	71	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY565							
Sampling Date		2017/04/24 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-LTN-COC-170424 Lab-Dup	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch

PCBs									
2-MonoCB-(1)	ng/g	0.00072 U	0.00072	0.0099	N/A	N/A	N/A	N/A	5019849
3-MonoCB-(2)	ng/g	0.00062 U	0.00062	0.0099	N/A	N/A	N/A	N/A	5019849
4-MonoCB-(3)	ng/g	0.00072 U	0.00072	0.0099	N/A	N/A	N/A	N/A	5019849
22'-DiCB-(4)	ng/g	0.0086 J	0.0026	0.0099	N/A	N/A	N/A	N/A	5019849
2,3-DiCB-(5)	ng/g	0.0016 U	0.0016	0.0099	N/A	N/A	N/A	N/A	5019849
2,3'-DiCB-(6)	ng/g	0.0013 U	0.0013	0.0099	N/A	N/A	N/A	N/A	5019849
2,4-DiCB-(7)	ng/g	0.0014 U	0.0014	0.0099	N/A	N/A	N/A	N/A	5019849
2,4'-DiCB-(8)	ng/g	0.0016 J	0.0011	0.0099	N/A	N/A	N/A	N/A	5019849
2,5-DiCB-(9)	ng/g	0.0013 U	0.0013	0.0099	N/A	N/A	N/A	N/A	5019849
2,6-DiCB-(10)	ng/g	0.0025 U	0.0025	0.0099	N/A	N/A	N/A	N/A	5019849
3,3'-DiCB-(11)	ng/g	0.0084 J	0.0013	0.0099	N/A	N/A	N/A	N/A	5019849
DiCB-(12)+(13)	ng/g	0.0014 U	0.0014	0.020	N/A	N/A	N/A	N/A	5019849
3,5-DiCB-(14)	ng/g	0.0013 U	0.0013	0.0099	N/A	N/A	N/A	N/A	5019849
4,4'-DiCB-(15)	ng/g	0.0021 U	0.0021	0.0099	N/A	N/A	N/A	N/A	5019849
22'3-TriCB-(16)	ng/g	0.0015 J	0.0012	0.0099	N/A	N/A	N/A	N/A	5019849
22'4-TriCB-(17)	ng/g	0.0053 J	0.0011	0.0099	N/A	N/A	N/A	N/A	5019849
TriCB-(18)+(30)	ng/g	0.0198 J	0.00087	0.020	N/A	N/A	N/A	N/A	5019849
22'6-TriCB-(19)	ng/g	0.00086 U	0.00086	0.0099	N/A	N/A	N/A	N/A	5019849
TriCB-(20) + (28)	ng/g	0.00392 J	0.00053	0.020	N/A	N/A	N/A	N/A	5019849
TriCB-(21)+(33)	ng/g	0.00762 J	0.00053	0.020	N/A	N/A	N/A	N/A	5019849
234'-TriCB-(22)	ng/g	0.00078 J	0.00057	0.0099	N/A	N/A	N/A	N/A	5019849
235-TriCB-(23)	ng/g	0.00057 U	0.00057	0.0099	N/A	N/A	N/A	N/A	5019849
236-TriCB-(24)	ng/g	0.00081 U	0.00081	0.0099	N/A	N/A	N/A	N/A	5019849
23'4-TriCB-(25)	ng/g	0.00065 J	0.00053	0.0099	N/A	N/A	N/A	N/A	5019849
TriCB-(26)+(29)	ng/g	0.00209 J	0.00053	0.020	N/A	N/A	N/A	N/A	5019849
23'6-TriCB-(27)	ng/g	0.00076 U	0.00076	0.0099	N/A	N/A	N/A	N/A	5019849
24'5-TriCB-(31)	ng/g	0.00492 J	0.00050	0.0099	N/A	N/A	N/A	N/A	5019849
24'6-TriCB-(32)	ng/g	0.00068 U	0.00068	0.0099	N/A	N/A	N/A	N/A	5019849
23'5'-TriCB-(34)	ng/g	0.00055 U	0.00055	0.0099	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY565							
Sampling Date		2017/04/24 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-LTN-COC-170424 Lab-Dup	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'4'-TriCB-(35)	ng/g	0.00054 U	0.00054	0.0099	N/A	N/A	N/A	N/A	5019849
33'5'-TriCB-(36)	ng/g	0.00047 U	0.00047	0.0099	N/A	N/A	N/A	N/A	5019849
344'-TriCB-(37)	ng/g	0.00110 J	0.00078	0.0099	N/A	N/A	N/A	N/A	5019849
345'-TriCB-(38)	ng/g	0.00052 U	0.00052	0.0099	N/A	N/A	N/A	N/A	5019849
34'5'-TriCB-(39)	ng/g	0.00052 U	0.00052	0.0099	N/A	N/A	N/A	N/A	5019849
TetraCB-(40)+(41)+(71)	ng/g	0.0015 U (1)	0.0015	0.030	N/A	N/A	N/A	N/A	5019849
22'34'-TetraCB-(42)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	5019849
22'35'-TetraCB-(43)	ng/g	0.0014 U	0.0014	0.0099	N/A	N/A	N/A	N/A	5019849
TetraCB-(44)+(47)+(65)	ng/g	0.0124 J	0.00092	0.030	N/A	N/A	N/A	N/A	5019849
TetraCB-(45)+(51)	ng/g	0.0010 U	0.0010	0.020	N/A	N/A	N/A	N/A	5019849
22'36'-TetraCB-(46)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	5019849
22'45'-TetraCB-(48)	ng/g	0.0179	0.0010	0.0099	N/A	N/A	N/A	N/A	5019849
TetraCB-(49)+TetraCB-(69)	ng/g	0.00629 J	0.00089	0.020	N/A	N/A	N/A	N/A	5019849
TetraCB-(50)+(53)	ng/g	0.00099 U	0.00099	0.020	N/A	N/A	N/A	N/A	5019849
22'55'-TetraCB-(52)	ng/g	0.0322	0.00093	0.0099	N/A	N/A	N/A	N/A	5019849
22'66'-TetraCB-(54)	ng/g	0.00044 U	0.00044	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'-TetraCB-(55)	ng/g	0.00047 U	0.00047	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'-Tetra CB(56)	ng/g	0.00058 U (1)	0.00058	0.0099	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(57)	ng/g	0.00043 U	0.00043	0.0099	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(58)	ng/g	0.00046 U	0.00046	0.0099	N/A	N/A	N/A	N/A	5019849
TetraCB-(59)+(62)+(75)	ng/g	0.00076 U	0.00076	0.030	N/A	N/A	N/A	N/A	5019849
2344'-TetraCB -(60)	ng/g	0.00058 J	0.00047	0.0099	N/A	N/A	N/A	N/A	5019849
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.0106 J	0.00044	0.040	N/A	N/A	N/A	N/A	5019849
234'5'-TetraCB-(63)	ng/g	0.00041 U	0.00041	0.0099	N/A	N/A	N/A	N/A	5019849
234'6'-TetraCB-(64)	ng/g	0.00082 U	0.00082	0.0099	N/A	N/A	N/A	N/A	5019849
23'44'-TetraCB-(66)	ng/g	0.00208 J	0.00043	0.0099	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(67)	ng/g	0.00069 J	0.00042	0.0099	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(68)	ng/g	0.00230 J	0.00042	0.0099	N/A	N/A	N/A	N/A	5019849
23'55'-TetraCB-(72)	ng/g	0.00042 U	0.00042	0.0099	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY565							
Sampling Date		2017/04/24 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-LTN-COC-170424 Lab-Dup	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'5'6-TetraCB-(73)	ng/g	0.00072 U	0.00072	0.0099	N/A	N/A	N/A	N/A	5019849
33'44'-TetraCB-(77)	ng/g	0.00058 U	0.00058	0.0099	N/A	0.000100	0.0000000580	N/A	5019849
33'45-TetraCB-(78)	ng/g	0.00043 U	0.00043	0.0099	N/A	N/A	N/A	N/A	5019849
33'45'-TetraCB(79)	ng/g	0.00039 U	0.00039	0.0099	N/A	N/A	N/A	N/A	5019849
33'55'-TetraCB-(80)	ng/g	0.00039 U	0.00039	0.0099	N/A	N/A	N/A	N/A	5019849
344'5-TetraCB-(81)	ng/g	0.00058 U	0.00058	0.0099	N/A	0.000300	0.000000174	N/A	5019849
22'33'4-PentaCB-(82)	ng/g	0.0010 U	0.0010	0.0099	N/A	N/A	N/A	N/A	5019849
PentaCB-(83)+(99)	ng/g	0.00688 J	0.00088	0.020	N/A	N/A	N/A	N/A	5019849
22'33'6-PentaCB-(84)	ng/g	0.0010 U	0.0010	0.0099	N/A	N/A	N/A	N/A	5019849
PentaCB-(85)+(116)+(117)	ng/g	0.00145 J	0.00072	0.030	N/A	N/A	N/A	N/A	5019849
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.00463 J	0.00077	0.060	N/A	N/A	N/A	N/A	5019849
PentaCB-(88)+(91)	ng/g	0.00090 U	0.00090	0.020	N/A	N/A	N/A	N/A	5019849
22'346'-PentaCB-(89)	ng/g	0.00093 U	0.00093	0.0099	N/A	N/A	N/A	N/A	5019849
PentaCB-(90)+(101)+(113)	ng/g	0.0775	0.00079	0.030	N/A	N/A	N/A	N/A	5019849
22'355'-PentaCB-(92)	ng/g	0.0022 U (1)	0.0022	0.0099	N/A	N/A	N/A	N/A	5019849
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.00092 U	0.00092	0.040	N/A	N/A	N/A	N/A	5019849
22'356'-PentaCB-(94)	ng/g	0.00099 U	0.00099	0.0099	N/A	N/A	N/A	N/A	5019849
22'35'6-PentaCB-(95)	ng/g	0.0029 U (1)	0.0029	0.0099	N/A	N/A	N/A	N/A	5019849
22'366'-PentaCB-(96)	ng/g	0.00042 U	0.00042	0.0099	N/A	N/A	N/A	N/A	5019849
22'45'6-PentaCB-(103)	ng/g	0.00080 U	0.00080	0.0099	N/A	N/A	N/A	N/A	5019849
22'466'-PentaCB-(104)	ng/g	0.00029 U	0.00029	0.0099	N/A	N/A	N/A	N/A	5019849
233'44'-PentaCB-(105)	ng/g	0.0025 U (1)	0.0025	0.0099	N/A	0.0000300	0.0000000750	N/A	5019849
233'45-PentaCB-(106)	ng/g	0.00060 U	0.00060	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'5-PentaCB-(107)	ng/g	0.00098 J	0.00063	0.0099	N/A	N/A	N/A	N/A	5019849
PentaCB-(108)+(124)	ng/g	0.00065 U	0.00065	0.020	N/A	N/A	N/A	N/A	5019849
PentaCB-(110)+(115)	ng/g	0.00498 J	0.00071	0.020	N/A	N/A	N/A	N/A	5019849
233'55'-PentaCB-(111)	ng/g	0.00068 U	0.00068	0.0099	N/A	N/A	N/A	N/A	5019849
233'56-PentaCB-(112)	ng/g	0.00073 U	0.00073	0.0099	N/A	N/A	N/A	N/A	5019849
2344'5-PentaCB-(114)	ng/g	0.00075 U	0.00075	0.0099	N/A	0.0000300	0.0000000225	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY565							
Sampling Date		2017/04/24 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-LTN-COC-170424 Lab-Dup	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'44'5'-PentaCB-(118)	ng/g	0.00751 J	0.00075	0.0099	N/A	0.0000300	0.000000225	N/A	5019849
23'45'5'-PentaCB-(120)	ng/g	0.00062 U	0.00062	0.0099	N/A	N/A	N/A	N/A	5019849
23'45'6'-PentaCB-(121)	ng/g	0.00069 U	0.00069	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(122)	ng/g	0.00066 U	0.00066	0.0099	N/A	N/A	N/A	N/A	5019849
23'44'5'5'-PentaCB-(123)	ng/g	0.00084 U	0.00084	0.0099	N/A	0.0000300	0.0000000252	N/A	5019849
33'44'5'-PentaCB-(126)	ng/g	0.00070 U	0.00070	0.0099	N/A	0.100	0.0000700	N/A	5019849
33'45'5'-PentaCB-(127)	ng/g	0.00061 U	0.00061	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(128)+(166)	ng/g	0.0036 J	0.0018	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(129)+(138)+(163)	ng/g	0.0278 J	0.0019	0.030	N/A	N/A	N/A	N/A	5019849
22'33'45'-HexaCB-(130)	ng/g	0.0023 U	0.0023	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(131)	ng/g	0.0025 U	0.0025	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(132)	ng/g	0.0026 U (1)	0.0026	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'55'-HexaCB-(133)	ng/g	0.0021 U	0.0021	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(134)+(143)	ng/g	0.0023 U	0.0023	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(135)+(151)	ng/g	0.0056 J	0.0012	0.020	N/A	N/A	N/A	N/A	5019849
22'33'66'-HexaCB-(136)	ng/g	0.00089 U	0.00089	0.0099	N/A	N/A	N/A	N/A	5019849
22'344'5'-HexaCB-(137)	ng/g	0.0022 U	0.0022	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(139)+(140)	ng/g	0.0020 U	0.0020	0.020	N/A	N/A	N/A	N/A	5019849
22'3455'-HexaCB-(141)	ng/g	0.0022 U	0.0022	0.0099	N/A	N/A	N/A	N/A	5019849
22'3456'-HexaCB-(142)	ng/g	0.0023 U	0.0023	0.0099	N/A	N/A	N/A	N/A	5019849
22'345'6'-HexaCB-(144)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	5019849
22'3466'-HexaCB-(145)	ng/g	0.00095 U	0.00095	0.0099	N/A	N/A	N/A	N/A	5019849
22'34'55'-HexaCB-(146)	ng/g	0.0086 U (1)	0.0086	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(147)+(149)	ng/g	0.0076 J	0.0020	0.020	N/A	N/A	N/A	N/A	5019849
22'34'56'-HexaCB-(148)	ng/g	0.0012 U	0.0012	0.0099	N/A	N/A	N/A	N/A	5019849
22'34'66'-HexaCB-(150)	ng/g	0.00086 U	0.00086	0.0099	N/A	N/A	N/A	N/A	5019849
22'3566'-HexaCB-(152)	ng/g	0.00089 U	0.00089	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(153)+(168)	ng/g	0.0324 B	0.0016	0.0099	N/A	N/A	N/A	N/A	5019849
22'44'56'-HexaCB-(154)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY565							
Sampling Date		2017/04/24 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-LTN-COC-170424 Lab-Dup	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'44'66'-HexaCB-(155)	ng/g	0.00065 U	0.00065	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(156)+(157)	ng/g	0.00155 J	0.00060	0.020	N/A	0.0000300	0.0000000465	N/A	5019849
233'44'6'-HexaCB-(158)	ng/g	0.0015 U	0.0015	0.0099	N/A	N/A	N/A	N/A	5019849
233'455'-HexaCB-(159)	ng/g	0.00053 U	0.00053	0.0099	N/A	N/A	N/A	N/A	5019849
233'456'-HexaCB-(160)	ng/g	0.0017 U	0.0017	0.0099	N/A	N/A	N/A	N/A	5019849
233'45'6'-HexaCB-(161)	ng/g	0.0015 U	0.0015	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'55'-HexaCB-(162)	ng/g	0.00053 U	0.00053	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'5'6'-HexaCB-(164)	ng/g	0.0015 U	0.0015	0.0099	N/A	N/A	N/A	N/A	5019849
233'55'6'-HexaCB-(165)	ng/g	0.0016 U	0.0016	0.0099	N/A	N/A	N/A	N/A	5019849
23'44'55'-HexaCB-(167)	ng/g	0.00057 U	0.00057	0.0099	N/A	0.0000300	0.0000000171	N/A	5019849
33'44'55'-HexaCB-(169)	ng/g	0.00060 U	0.00060	0.0099	N/A	0.0300	0.0000180	N/A	5019849
22'33'44'5'-HeptaCB-(170)	ng/g	0.0055 J	0.0016	0.0099	N/A	N/A	N/A	N/A	5019849
HeptaCB-(171)+(173)	ng/g	0.0022 U	0.0022	0.020	N/A	N/A	N/A	N/A	5019849
22'33'455'-HeptaCB-(172)	ng/g	0.0022 U	0.0022	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'456'-HeptaCB-(174)	ng/g	0.0047 J	0.0021	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(175)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'466'-HeptaCB-(176)	ng/g	0.00087 U	0.00087	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(177)	ng/g	0.0046 J	0.0022	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'55'6'-HeptaCB-(178)	ng/g	0.0036 J	0.0012	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'566'-HeptaCB-(179)	ng/g	0.00082 U	0.00082	0.0099	N/A	N/A	N/A	N/A	5019849
HeptaCB-(180)+(193)	ng/g	0.0141 J	0.0016	0.020	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(181)	ng/g	0.0021 U	0.0021	0.0099	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(182)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	5019849
22'344'5'6'-HeptaCB-(183)	ng/g	0.0042 J	0.0017	0.0099	N/A	N/A	N/A	N/A	5019849
22'344'66'-HeptaCB-(184)	ng/g	0.00086 U	0.00086	0.0099	N/A	N/A	N/A	N/A	5019849
22'3455'6'-HeptaCB-(185)	ng/g	0.0024 U	0.0024	0.0099	N/A	N/A	N/A	N/A	5019849
22'34566'-HeptaCB-(186)	ng/g	0.00093 U	0.00093	0.0099	N/A	N/A	N/A	N/A	5019849
22'34'55'6'-HeptaCB-(187)	ng/g	0.0165	0.0011	0.0099	N/A	N/A	N/A	N/A	5019849
22'34'566'-HeptaCB-(188)	ng/g	0.00086 U	0.00086	0.0099	N/A	N/A	N/A	N/A	5019849
233'44'55'-HeptaCB-(189)	ng/g	0.00091 U	0.00091	0.0099	N/A	0.0000300	0.0000000273	N/A	5019849

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Maxxam ID		EIY565							
Sampling Date		2017/04/24 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-LTN-COC-170424 Lab-Dup	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'44'56-HeptaCB-(190)	ng/g	0.0016 U	0.0016	0.0099	N/A	N/A	N/A	N/A	5019849
233'44'5'6-HeptaCB-(191)	ng/g	0.0016 U	0.0016	0.0099	N/A	N/A	N/A	N/A	5019849
233'455'6-HeptaCB-(192)	ng/g	0.0018 U	0.0018	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'44'55'-OctaCB-(194)	ng/g	0.0039 J (1)	0.0020	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'56-OctaCB-(195)	ng/g	0.0020 U (1)	0.0020	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(196)	ng/g	0.0026 U (1)	0.0026	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'66'OctaCB-(197)	ng/g	0.0020 U (1)	0.0020	0.050	N/A	N/A	N/A	N/A	5019849
OctaCB-(198)+(199)	ng/g	0.0059 U (2)	0.0059	0.099	N/A	N/A	N/A	N/A	5019849
22'33'4566'-OctaCB-(200)	ng/g	0.0021 U (1)	0.0021	0.050	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(201)	ng/g	0.0020 U (1)	0.0020	0.050	N/A	N/A	N/A	N/A	5019849
22'33'55'66'-OctaCB-(202)	ng/g	0.0021 U (1)	0.0021	0.050	N/A	N/A	N/A	N/A	5019849
22'344'55'6-OctaCB-(203)	ng/g	0.0026 U (1)	0.0026	0.050	N/A	N/A	N/A	N/A	5019849
22'344'566'-OctaCB-(204)	ng/g	0.0020 U (1)	0.0020	0.050	N/A	N/A	N/A	N/A	5019849
233'44'55'6-OctaCB-(205)	ng/g	0.00060 U	0.00060	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'44'55'6-NonaCB-(206)	ng/g	0.0041 U (3)	0.0041	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'44'566'-NonaCB-(207)	ng/g	0.0015 U	0.0015	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'455'66'-NonaCB-(208)	ng/g	0.0025 J	0.0018	0.0099	N/A	N/A	N/A	N/A	5019849
DecaCB-(209)	ng/g	0.00741 J	0.00088	0.0099	N/A	N/A	N/A	N/A	5019849
Total PCB	ng/g	0.401	N/A	N/A	N/A	N/A	N/A	N/A	5019849
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.0000887	N/A	N/A
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	78	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'55'6-NonaCB-(206)	%	83	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'5-HeptaCB-(170)	%	131 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'455'66'-NonaCB-(208)	%	116	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'66'-OctaCB-(202)	%	97 Q (1)	N/A	N/A	N/A	N/A	N/A	N/A	5019849
EDL = Estimated Detection Limit RDL = Reportable Detection Limit TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient, The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested. WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) ** From 5X Dilution ** (2) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit. ** From 5X Dilution ** (3) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.									

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY565							
Sampling Date		2017/04/24 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-LTN-COC-170424 Lab-Dup	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-22'33'55'6-HeptaCB-(178)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'344'55'-HeptaCB-(180)	%	141 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'34'566'-HeptaCB-(188)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'44'66'-HexaCB-(155)	%	94	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'466'-PentaCB-(104)	%	86	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'66'-TetraCB-(54)	%	60	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'6-TriCB-(19)	%	53	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'-DiCB-(4)	%	45	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'6-OctaCB-(205)	%	94	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'-HeptaCB-(189)	%	106	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'-PentaCB-(105)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'55'-PentaCB-(111)	%	102	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'55'-HexaCB-(167)	%	77	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2344'5-PentaCB-(114)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'5-PentaCB-(118)	%	99	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2'344'5-PentaCB-(123)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2-MonoCB-(1)	%	43	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'55'-HexaCB-(169)	%	31	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'5-PentaCB-(126)	%	90	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'-TetraCB-(77)	%	91	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'5-TetraCB-(81)	%	90	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'-TriCB-(37)	%	81	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-44'-DiCB-(15)	%	61	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-4-MonoCB-(3)	%	44	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-DecaCB-(209)	%	75	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-HexaCB-(156)+(157)	%	68	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
N/A = Not Applicable

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY566							
Sampling Date		2017/04/24 12:45							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-MAN-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch

PCBs									
2-MonoCB-(1)	ng/g	0.0016 U	0.0016	0.0099	N/A	N/A	N/A	N/A	5019849
3-MonoCB-(2)	ng/g	0.0013 U	0.0013	0.0099	N/A	N/A	N/A	N/A	5019849
4-MonoCB-(3)	ng/g	0.0016 U	0.0016	0.0099	N/A	N/A	N/A	N/A	5019849
2,2'-DiCB-(4)	ng/g	0.0014 U	0.0014	0.0099	N/A	N/A	N/A	N/A	5019849
2,3-DiCB-(5)	ng/g	0.0026 U	0.0026	0.0099	N/A	N/A	N/A	N/A	5019849
2,3'-DiCB-(6)	ng/g	0.0021 U	0.0021	0.0099	N/A	N/A	N/A	N/A	5019849
2,4-DiCB-(7)	ng/g	0.0021 U	0.0021	0.0099	N/A	N/A	N/A	N/A	5019849
2,4'-DiCB-(8)	ng/g	0.0018 UQ	0.0018	0.0099	N/A	N/A	N/A	N/A	5019849
2,5-DiCB-(9)	ng/g	0.0021 U	0.0021	0.0099	N/A	N/A	N/A	N/A	5019849
2,6-DiCB-(10)	ng/g	0.0014 U	0.0014	0.0099	N/A	N/A	N/A	N/A	5019849
3,3'-DiCB-(11)	ng/g	0.0097 J	0.0021	0.0099	N/A	N/A	N/A	N/A	5019849
DiCB-(12)+(13)	ng/g	0.0022 U	0.0022	0.020	N/A	N/A	N/A	N/A	5019849
3,5-DiCB-(14)	ng/g	0.0020 U	0.0020	0.0099	N/A	N/A	N/A	N/A	5019849
4,4'-DiCB-(15)	ng/g	0.0037 U	0.0037	0.0099	N/A	N/A	N/A	N/A	5019849
2,2',3-TriCB-(16)	ng/g	0.019 U	0.019	0.0099	N/A	N/A	N/A	N/A	5019849
2,2',4-TriCB-(17)	ng/g	0.015 U	0.015	0.0099	N/A	N/A	N/A	N/A	5019849
TriCB-(18)+(30)	ng/g	0.012 U	0.012	0.020	N/A	N/A	N/A	N/A	5019849
2,2',6-TriCB-(19)	ng/g	0.011 U	0.011	0.0099	N/A	N/A	N/A	N/A	5019849
TriCB-(20) + (28)	ng/g	0.0069 U (1)	0.0069	0.020	N/A	N/A	N/A	N/A	5019849
TriCB-(21)+(33)	ng/g	0.0026 U (1)	0.0026	0.020	N/A	N/A	N/A	N/A	5019849
2,3,4'-TriCB-(22)	ng/g	0.0018 U	0.0018	0.0099	N/A	N/A	N/A	N/A	5019849
2,3,5-TriCB-(23)	ng/g	0.0018 U	0.0018	0.0099	N/A	N/A	N/A	N/A	5019849
2,3,6-TriCB-(24)	ng/g	0.010 U	0.010	0.0099	N/A	N/A	N/A	N/A	5019849
2,3',4-TriCB-(25)	ng/g	0.0017 U	0.0017	0.0099	N/A	N/A	N/A	N/A	5019849
TriCB-(26)+(29)	ng/g	0.0016 U	0.0016	0.020	N/A	N/A	N/A	N/A	5019849
2,3',6-TriCB-(27)	ng/g	0.010 U	0.010	0.0099	N/A	N/A	N/A	N/A	5019849
2,4',5-TriCB-(31)	ng/g	0.0074 JQ	0.0015	0.0099	N/A	N/A	N/A	N/A	5019849
2,4',6-TriCB-(32)	ng/g	0.0093 U	0.0093	0.0099	N/A	N/A	N/A	N/A	5019849
2,3',5'-TriCB-(34)	ng/g	0.0016 U	0.0016	0.0099	N/A	N/A	N/A	N/A	5019849

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WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY566							
Sampling Date		2017/04/24 12:45							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-MAN-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'4'-TriCB-(35)	ng/g	0.0017 U	0.0017	0.0099	N/A	N/A	N/A	N/A	5019849
33'5'-TriCB-(36)	ng/g	0.0014 U	0.0014	0.0099	N/A	N/A	N/A	N/A	5019849
344'-TriCB-(37)	ng/g	0.0030 U	0.0030	0.0099	N/A	N/A	N/A	N/A	5019849
345-TriCB-(38)	ng/g	0.0018 U	0.0018	0.0099	N/A	N/A	N/A	N/A	5019849
34'5'-TriCB-(39)	ng/g	0.0016 U	0.0016	0.0099	N/A	N/A	N/A	N/A	5019849
TetraCB-(40)+(41)+(71)	ng/g	0.0064 U	0.0064	0.030	N/A	N/A	N/A	N/A	5019849
22'34'-TetraCB-(42)	ng/g	0.0074 U	0.0074	0.0099	N/A	N/A	N/A	N/A	5019849
22'35'-TetraCB-(43)	ng/g	0.0086 U	0.0086	0.0099	N/A	N/A	N/A	N/A	5019849
TetraCB-(44)+(47)+(65)	ng/g	0.0123 J	0.0057	0.030	N/A	N/A	N/A	N/A	5019849
TetraCB-(45)+(51)	ng/g	0.0063 UQ	0.0063	0.020	N/A	N/A	N/A	N/A	5019849
22'36'-TetraCB-(46)	ng/g	0.0078 U	0.0078	0.0099	N/A	N/A	N/A	N/A	5019849
22'45'-TetraCB-(48)	ng/g	0.0060 U (1)	0.0060	0.0099	N/A	N/A	N/A	N/A	5019849
TetraCB-(49)+TetraCB-(69)	ng/g	0.0086 J	0.0054	0.020	N/A	N/A	N/A	N/A	5019849
TetraCB-(50)+(53)	ng/g	0.0060 U	0.0060	0.020	N/A	N/A	N/A	N/A	5019849
22'55'-TetraCB-(52)	ng/g	0.0104 Q	0.0061	0.0099	N/A	N/A	N/A	N/A	5019849
22'66'-TetraCB-(54)	ng/g	0.0011 U	0.0011	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'-TetraCB-(55)	ng/g	0.0057 U	0.0057	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'-Tetra CB(56)	ng/g	0.0056 UQ	0.0056	0.0099	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(57)	ng/g	0.0049 U	0.0049	0.0099	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(58)	ng/g	0.0050 U	0.0050	0.0099	N/A	N/A	N/A	N/A	5019849
TetraCB-(59)+(62)+(75)	ng/g	0.0047 U	0.0047	0.030	N/A	N/A	N/A	N/A	5019849
2344'-TetraCB -(60)	ng/g	0.0061 U	0.0061	0.0099	N/A	N/A	N/A	N/A	5019849
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.0140 J	0.0052	0.040	N/A	N/A	N/A	N/A	5019849
234'5'-TetraCB-(63)	ng/g	0.0049 UQ	0.0049	0.0099	N/A	N/A	N/A	N/A	5019849
234'6'-TetraCB-(64)	ng/g	0.0051 U	0.0051	0.0099	N/A	N/A	N/A	N/A	5019849
23'44'-TetraCB-(66)	ng/g	0.0074 J	0.0051	0.0099	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(67)	ng/g	0.0047 U	0.0047	0.0099	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(68)	ng/g	0.0044 U	0.0044	0.0099	N/A	N/A	N/A	N/A	5019849
23'55'-TetraCB-(72)	ng/g	0.0045 U	0.0045	0.0099	N/A	N/A	N/A	N/A	5019849
23'5'6'-TetraCB-(73)	ng/g	0.0044 U	0.0044	0.0099	N/A	N/A	N/A	N/A	5019849

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The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

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QC Batch = Quality Control Batch

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(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY566							
Sampling Date		2017/04/24 12:45							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-MAN-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'44'-TetraCB-(77)	ng/g	0.0073 U	0.0073	0.0099	N/A	0.000100	0.000000730	N/A	5019849
33'45'-TetraCB-(78)	ng/g	0.0056 U	0.0056	0.0099	N/A	N/A	N/A	N/A	5019849
33'45'-TetraCB-(79)	ng/g	0.0049 U	0.0049	0.0099	N/A	N/A	N/A	N/A	5019849
33'55'-TetraCB-(80)	ng/g	0.0050 U	0.0050	0.0099	N/A	N/A	N/A	N/A	5019849
344'5'-TetraCB-(81)	ng/g	0.0072 U	0.0072	0.0099	N/A	0.000300	0.00000216	N/A	5019849
22'33'4'-PentaCB-(82)	ng/g	0.0060 UQ	0.0060	0.0099	N/A	N/A	N/A	N/A	5019849
PentaCB-(83)+(99)	ng/g	0.0124 J	0.0051	0.020	N/A	N/A	N/A	N/A	5019849
22'33'6'-PentaCB-(84)	ng/g	0.0056 U	0.0056	0.0099	N/A	N/A	N/A	N/A	5019849
PentaCB-(85)+(116)+(117)	ng/g	0.0042 U	0.0042	0.030	N/A	N/A	N/A	N/A	5019849
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.0041 U	0.0041	0.060	N/A	N/A	N/A	N/A	5019849
PentaCB-(88)+(91)	ng/g	0.0047 U	0.0047	0.020	N/A	N/A	N/A	N/A	5019849
22'346'-PentaCB-(89)	ng/g	0.0050 U	0.0050	0.0099	N/A	N/A	N/A	N/A	5019849
PentaCB-(90)+(101)+(113)	ng/g	0.0171 J	0.0044	0.030	N/A	N/A	N/A	N/A	5019849
22'355'-PentaCB-(92)	ng/g	0.0051 UQ	0.0051	0.0099	N/A	N/A	N/A	N/A	5019849
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.0046 U	0.0046	0.040	N/A	N/A	N/A	N/A	5019849
22'356'-PentaCB-(94)	ng/g	0.0049 U	0.0049	0.0099	N/A	N/A	N/A	N/A	5019849
22'35'6'-PentaCB-(95)	ng/g	0.0055 UQ (1)	0.0055	0.0099	N/A	N/A	N/A	N/A	5019849
22'366'-PentaCB-(96)	ng/g	0.00044 U	0.00044	0.0099	N/A	N/A	N/A	N/A	5019849
22'45'6'-PentaCB-(103)	ng/g	0.0039 U	0.0039	0.0099	N/A	N/A	N/A	N/A	5019849
22'466'-PentaCB-(104)	ng/g	0.00035 U	0.00035	0.0099	N/A	N/A	N/A	N/A	5019849
233'44'-PentaCB-(105)	ng/g	0.0040 J	0.0020	0.0099	N/A	0.0000300	0.000000120	N/A	5019849
233'45'-PentaCB-(106)	ng/g	0.0017 U	0.0017	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(107)	ng/g	0.0014 U	0.0014	0.0099	N/A	N/A	N/A	N/A	5019849
PentaCB-(108)+(124)	ng/g	0.0016 U	0.0016	0.020	N/A	N/A	N/A	N/A	5019849
PentaCB-(110)+(115)	ng/g	0.0102 J	0.0040	0.020	N/A	N/A	N/A	N/A	5019849
233'55'-PentaCB-(111)	ng/g	0.0036 U	0.0036	0.0099	N/A	N/A	N/A	N/A	5019849
233'56'-PentaCB-(112)	ng/g	0.0037 U	0.0037	0.0099	N/A	N/A	N/A	N/A	5019849
2344'5'-PentaCB-(114)	ng/g	0.0019 U	0.0019	0.0099	N/A	0.0000300	0.0000000570	N/A	5019849
23'44'5'-PentaCB-(118)	ng/g	0.0113	0.0019	0.0099	N/A	0.0000300	0.000000339	N/A	5019849
23'455'-PentaCB-(120)	ng/g	0.0034 U	0.0034	0.0099	N/A	N/A	N/A	N/A	5019849

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(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY566							
Sampling Date		2017/04/24 12:45							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-MAN-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'45'6'-PentaCB-(121)	ng/g	0.0035 U	0.0035	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(122)	ng/g	0.0017 U	0.0017	0.0099	N/A	N/A	N/A	N/A	5019849
23'44'5'-PentaCB-(123)	ng/g	0.0022 U	0.0022	0.0099	N/A	0.0000300	0.0000000660	N/A	5019849
33'44'5'-PentaCB-(126)	ng/g	0.0018 U	0.0018	0.0099	N/A	0.100	0.000180	N/A	5019849
33'455'-PentaCB-(127)	ng/g	0.0016 U	0.0016	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(128)+(166)	ng/g	0.0058 U	0.0058	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(129)+(138)+(163)	ng/g	0.0401 Q	0.0062	0.030	N/A	N/A	N/A	N/A	5019849
22'33'45'-HexaCB-(130)	ng/g	0.0074 U	0.0074	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(131)	ng/g	0.0084 U	0.0084	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(132)	ng/g	0.0078 U	0.0078	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'55'-HexaCB-(133)	ng/g	0.0067 U	0.0067	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(134)+(143)	ng/g	0.0076 U	0.0076	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(135)+(151)	ng/g	0.0076 U	0.0076	0.020	N/A	N/A	N/A	N/A	5019849
22'33'66'-HexaCB-(136)	ng/g	0.0051 U	0.0051	0.0099	N/A	N/A	N/A	N/A	5019849
22'344'5'-HexaCB-(137)	ng/g	0.0069 U	0.0069	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(139)+(140)	ng/g	0.0062 U	0.0062	0.020	N/A	N/A	N/A	N/A	5019849
22'3455'-HexaCB-(141)	ng/g	0.0070 U	0.0070	0.0099	N/A	N/A	N/A	N/A	5019849
22'3456'-HexaCB-(142)	ng/g	0.0075 U	0.0075	0.0099	N/A	N/A	N/A	N/A	5019849
22'345'6'-HexaCB-(144)	ng/g	0.0070 U	0.0070	0.0099	N/A	N/A	N/A	N/A	5019849
22'3466'-HexaCB-(145)	ng/g	0.0056 U	0.0056	0.0099	N/A	N/A	N/A	N/A	5019849
22'34'55'-HexaCB-(146)	ng/g	0.0060 UQ (1)	0.0060	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(147)+(149)	ng/g	0.020 U (1)	0.020	0.020	N/A	N/A	N/A	N/A	5019849
22'34'56'-HexaCB-(148)	ng/g	0.0069 U	0.0069	0.0099	N/A	N/A	N/A	N/A	5019849
22'34'66'-HexaCB-(150)	ng/g	0.0051 U	0.0051	0.0099	N/A	N/A	N/A	N/A	5019849
22'3566'-HexaCB-(152)	ng/g	0.0051 U	0.0051	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(153)+(168)	ng/g	0.0448 B	0.0049	0.0099	N/A	N/A	N/A	N/A	5019849
22'44'56'-HexaCB-(154)	ng/g	0.0062 U	0.0062	0.0099	N/A	N/A	N/A	N/A	5019849
22'44'66'-HexaCB-(155)	ng/g	0.0044 U	0.0044	0.0099	N/A	N/A	N/A	N/A	5019849
HexaCB-(156)+(157)	ng/g	0.0068 UQ	0.0068	0.020	N/A	0.0000300	0.000000204	N/A	5019849
233'44'6'-HexaCB-(158)	ng/g	0.0045 UQ	0.0045	0.0099	N/A	N/A	N/A	N/A	5019849

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The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY566							
Sampling Date		2017/04/24 12:45							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-MAN-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'455'-HexaCB-(159)	ng/g	0.0057 U	0.0057	0.0099	N/A	N/A	N/A	N/A	5019849
233'456'-HexaCB-(160)	ng/g	0.0053 U	0.0053	0.0099	N/A	N/A	N/A	N/A	5019849
233'45'6'-HexaCB-(161)	ng/g	0.0049 U	0.0049	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'55'-HexaCB-(162)	ng/g	0.0057 U	0.0057	0.0099	N/A	N/A	N/A	N/A	5019849
233'4'5'6'-HexaCB-(164)	ng/g	0.0047 U	0.0047	0.0099	N/A	N/A	N/A	N/A	5019849
233'55'6'-HexaCB-(165)	ng/g	0.0054 U	0.0054	0.0099	N/A	N/A	N/A	N/A	5019849
23'44'55'-HexaCB-(167)	ng/g	0.0064 U	0.0064	0.0099	N/A	0.0000300	0.000000192	N/A	5019849
33'44'55'-HexaCB-(169)	ng/g	0.0069 U	0.0069	0.0099	N/A	0.0300	0.000207	N/A	5019849
22'33'44'5'-HeptaCB-(170)	ng/g	0.0064 UQ (1)	0.0064	0.0099	N/A	N/A	N/A	N/A	5019849
HeptaCB-(171)+(173)	ng/g	0.0071 U	0.0071	0.020	N/A	N/A	N/A	N/A	5019849
22'33'455'-HeptaCB-(172)	ng/g	0.0070 U	0.0070	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'456'-HeptaCB-(174)	ng/g	0.0070 J	0.0065	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(175)	ng/g	0.0036 U	0.0036	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'466'-HeptaCB-(176)	ng/g	0.0029 U	0.0029	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(177)	ng/g	0.0076 JQ	0.0069	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'55'6'-HeptaCB-(178)	ng/g	0.0040 UQ	0.0040	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'566'-HeptaCB-(179)	ng/g	0.0028 U	0.0028	0.0099	N/A	N/A	N/A	N/A	5019849
HeptaCB-(180)+(193)	ng/g	0.0200	0.0050	0.020	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(181)	ng/g	0.0069 U	0.0069	0.0099	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(182)	ng/g	0.0039 U	0.0039	0.0099	N/A	N/A	N/A	N/A	5019849
22'344'5'6'-HeptaCB-(183)	ng/g	0.0063 UQ (1)	0.0063	0.0099	N/A	N/A	N/A	N/A	5019849
22'344'66'-HeptaCB-(184)	ng/g	0.0027 U	0.0027	0.0099	N/A	N/A	N/A	N/A	5019849
22'3455'6'-HeptaCB-(185)	ng/g	0.0071 U	0.0071	0.0099	N/A	N/A	N/A	N/A	5019849
22'34566'-HeptaCB-(186)	ng/g	0.0030 U	0.0030	0.0099	N/A	N/A	N/A	N/A	5019849
22'34'55'6'-HeptaCB-(187)	ng/g	0.022 UQ (1)	0.022	0.0099	N/A	N/A	N/A	N/A	5019849
22'34'566'-HeptaCB-(188)	ng/g	0.0031 U	0.0031	0.0099	N/A	N/A	N/A	N/A	5019849
233'44'55'-HeptaCB-(189)	ng/g	0.0033 U	0.0033	0.0099	N/A	0.0000300	0.000000099	N/A	5019849
233'44'56'-HeptaCB-(190)	ng/g	0.0054 U	0.0054	0.0099	N/A	N/A	N/A	N/A	5019849
233'44'5'6'-HeptaCB-(191)	ng/g	0.0050 U	0.0050	0.0099	N/A	N/A	N/A	N/A	5019849
233'455'6'-HeptaCB-(192)	ng/g	0.0057 U	0.0057	0.0099	N/A	N/A	N/A	N/A	5019849

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N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY566							
Sampling Date		2017/04/24 12:45							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-MAN-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'33'44'55'-OctaCB-(194)	ng/g	0.0062 U	0.0062	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(195)	ng/g	0.0064 U	0.0064	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(196)	ng/g	0.0079 U	0.0079	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'44'66'-OctaCB-(197)	ng/g	0.0051 U	0.0051	0.0099	N/A	N/A	N/A	N/A	5019849
OctaCB-(198)+(199)	ng/g	0.0132 J	0.0081	0.020	N/A	N/A	N/A	N/A	5019849
22'33'4566'-OctaCB-(200)	ng/g	0.0061 U	0.0061	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(201)	ng/g	0.0053 U	0.0053	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'55'66'-OctaCB-(202)	ng/g	0.0059 U	0.0059	0.0099	N/A	N/A	N/A	N/A	5019849
22'344'55'6'-OctaCB-(203)	ng/g	0.0079 U	0.0079	0.0099	N/A	N/A	N/A	N/A	5019849
22'344'566'-OctaCB-(204)	ng/g	0.0053 U	0.0053	0.0099	N/A	N/A	N/A	N/A	5019849
233'44'55'6'-OctaCB-(205)	ng/g	0.0051 U	0.0051	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'44'55'6'-NonaCB-(206)	ng/g	0.0047 U	0.0047	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'44'566'-NonaCB-(207)	ng/g	0.0037 U	0.0037	0.0099	N/A	N/A	N/A	N/A	5019849
22'33'455'66'-NonaCB-(208)	ng/g	0.0046 U	0.0046	0.0099	N/A	N/A	N/A	N/A	5019849
DecaCB-(209)	ng/g	0.012 U	0.012	0.0099	N/A	N/A	N/A	N/A	5019849
Total PCB	ng/g	0.257	N/A	N/A	N/A	N/A	N/A	N/A	5019849
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.000391	N/A	N/A
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	68	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'55'6'-NonaCB-(206)	%	82	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'5'-HeptaCB-(170)	%	117 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'455'66'-NonaCB-(208)	%	103	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'66'-OctaCB-(202)	%	133 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'6'-HeptaCB-(178)	%	91	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'344'55'-HeptaCB-(180)	%	132 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'34'566'-HeptaCB-(188)	%	99	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'44'66'-HexaCB-(155)	%	95	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'466'-PentaCB-(104)	%	71	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'66'-TetraCB-(54)	%	45	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'6'-TriCB-(19)	%	34	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'-DiCB-(4)	%	32	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY566							
Sampling Date		2017/04/24 12:45							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-WS-MAN-COC-170424	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-233'44'55'6-OctaCB-(205)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'-HeptaCB-(189)	%	125	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'-PentaCB-(105)	%	96	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'55'-PentaCB-(111)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'55'-HexaCB-(167)	%	96	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2344'5-PentaCB-(114)	%	96	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'5-PentaCB-(118)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2'344'5-PentaCB-(123)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2-MonoCB-(1)	%	30	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'55'-HexaCB-(169)	%	13 Q (1)	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'5-PentaCB-(126)	%	27 Q (2)	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'-TetraCB-(77)	%	54	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'5-TetraCB-(81)	%	74	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'-TriCB-(37)	%	71	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-44'-DiCB-(15)	%	51	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-4-MonoCB-(3)	%	33	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-DecaCB-(209)	%	69	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-HexaCB-(156)+(157)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,

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(1) Internal standard recovery is below method limits.

(2) Internal standard recovery meets method limits.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY567							
Sampling Date		2017/04/26 07:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-SMA3-GEO-COC-170426	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch

PCBs									
2-MonoCB-(1)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	5019849
3-MonoCB-(2)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
4-MonoCB-(3)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	5019849
2,2'-DiCB-(4)	ng/g	0.0055 U	0.0055	0.010	N/A	N/A	N/A	N/A	5019849
2,3-DiCB-(5)	ng/g	0.0012 U	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
2,3'-DiCB-(6)	ng/g	0.00095 U	0.00095	0.010	N/A	N/A	N/A	N/A	5019849
2,4-DiCB-(7)	ng/g	0.00097 U	0.00097	0.010	N/A	N/A	N/A	N/A	5019849
2,4'-DiCB-(8)	ng/g	0.0026 UQ (1)	0.0026	0.010	N/A	N/A	N/A	N/A	5019849
2,5-DiCB-(9)	ng/g	0.00097 U	0.00097	0.010	N/A	N/A	N/A	N/A	5019849
2,6-DiCB-(10)	ng/g	0.0057 U	0.0057	0.010	N/A	N/A	N/A	N/A	5019849
3,3'-DiCB-(11)	ng/g	0.013 U (1)	0.013	0.010	N/A	N/A	N/A	N/A	5019849
DiCB-(12)+(13)	ng/g	0.0010 U	0.0010	0.020	N/A	N/A	N/A	N/A	5019849
3,5-DiCB-(14)	ng/g	0.00093 U	0.00093	0.010	N/A	N/A	N/A	N/A	5019849
4,4'-DiCB-(15)	ng/g	0.0040 U (1)	0.0040	0.010	N/A	N/A	N/A	N/A	5019849
2,2',3-TriCB-(16)	ng/g	0.010 U	0.010	0.010	N/A	N/A	N/A	N/A	5019849
2,2',4-TriCB-(17)	ng/g	0.0080 U	0.0080	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(18)+(30)	ng/g	0.0064 U	0.0064	0.020	N/A	N/A	N/A	N/A	5019849
2,2',6-TriCB-(19)	ng/g	0.0057 U	0.0057	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(20) + (28)	ng/g	0.0322	0.0014	0.020	N/A	N/A	N/A	N/A	5019849
TriCB-(21)+(33)	ng/g	0.0080 J	0.0015	0.020	N/A	N/A	N/A	N/A	5019849
2,3,4'-TriCB-(22)	ng/g	0.0089 J	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
2,3,5-TriCB-(23)	ng/g	0.0015 U	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
2,3,6-TriCB-(24)	ng/g	0.0056 U	0.0056	0.010	N/A	N/A	N/A	N/A	5019849
2,3',4-TriCB-(25)	ng/g	0.0017 J	0.0014	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(26)+(29)	ng/g	0.0038 J	0.0014	0.020	N/A	N/A	N/A	N/A	5019849
2,3',6-TriCB-(27)	ng/g	0.0056 U	0.0056	0.010	N/A	N/A	N/A	N/A	5019849
2,4',5-TriCB-(31)	ng/g	0.0205 Q	0.0013	0.010	N/A	N/A	N/A	N/A	5019849
2,4',6-TriCB-(32)	ng/g	0.0051 U	0.0051	0.010	N/A	N/A	N/A	N/A	5019849
2,3',5'-TriCB-(34)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	5019849

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N/A = Not Applicable
(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY567							
Sampling Date		2017/04/26 07:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-SMA3-GEO-COC-170426	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'4'-TriCB-(35)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	5019849
33'5'-TriCB-(36)	ng/g	0.0012 U	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
344'-TriCB-(37)	ng/g	0.0067 U (1)	0.0067	0.010	N/A	N/A	N/A	N/A	5019849
345'-TriCB-(38)	ng/g	0.0015 U	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
34'5'-TriCB-(39)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(40)+(41)+(71)	ng/g	0.0210 J	0.0016	0.030	N/A	N/A	N/A	N/A	5019849
22'34'-TetraCB-(42)	ng/g	0.0102	0.0018	0.010	N/A	N/A	N/A	N/A	5019849
22'35'-TetraCB-(43)	ng/g	0.0021 U	0.0021	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(44)+(47)+(65)	ng/g	0.0442	0.0014	0.030	N/A	N/A	N/A	N/A	5019849
TetraCB-(45)+(51)	ng/g	0.0078 JQ	0.0015	0.020	N/A	N/A	N/A	N/A	5019849
22'36'-TetraCB-(46)	ng/g	0.0019 U	0.0019	0.010	N/A	N/A	N/A	N/A	5019849
22'45'-TetraCB-(48)	ng/g	0.0053 J	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(49)+TetraCB-(69)	ng/g	0.0289	0.0013	0.020	N/A	N/A	N/A	N/A	5019849
TetraCB-(50)+(53)	ng/g	0.0041 J	0.0014	0.020	N/A	N/A	N/A	N/A	5019849
22'55'-TetraCB-(52)	ng/g	0.0832 Q	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
22'66'-TetraCB-(54)	ng/g	0.0019 U	0.0019	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-TetraCB-(55)	ng/g	0.0019 U	0.0019	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-Tetra CB(56)	ng/g	0.0074 JQ	0.0018	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(57)	ng/g	0.0016 U	0.0016	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(58)	ng/g	0.0037 J	0.0016	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(59)+(62)+(75)	ng/g	0.0051 J	0.0011	0.030	N/A	N/A	N/A	N/A	5019849
2344'-TetraCB -(60)	ng/g	0.0060 J	0.0020	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.0508	0.0017	0.040	N/A	N/A	N/A	N/A	5019849
234'5'-TetraCB-(63)	ng/g	0.0016 UQ	0.0016	0.010	N/A	N/A	N/A	N/A	5019849
234'6'-TetraCB-(64)	ng/g	0.0267	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
23'44'-TetraCB-(66)	ng/g	0.0220	0.0017	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(67)	ng/g	0.0015 U	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(68)	ng/g	0.0021 J	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
23'55'-TetraCB-(72)	ng/g	0.0015 U	0.0015	0.010	N/A	N/A	N/A	N/A	5019849
23'5'6'-TetraCB-(73)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY567							
Sampling Date		2017/04/26 07:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-SMA3-GEO-COC-170426	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'44'-TetraCB-(77)	ng/g	0.0032 J	0.0024	0.010	N/A	0.000100	0.000000320	N/A	5019849
33'45'-TetraCB-(78)	ng/g	0.0018 U	0.0018	0.010	N/A	N/A	N/A	N/A	5019849
33'45'-TetraCB-(79)	ng/g	0.0016 U	0.0016	0.010	N/A	N/A	N/A	N/A	5019849
33'55'-TetraCB-(80)	ng/g	0.0016 U	0.0016	0.010	N/A	N/A	N/A	N/A	5019849
344'5'-TetraCB-(81)	ng/g	0.0023 U	0.0023	0.010	N/A	0.000300	0.000000690	N/A	5019849
22'33'4'-PentaCB-(82)	ng/g	0.0052 UQ (1)	0.0052	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(83)+(99)	ng/g	0.0730	0.0029	0.020	N/A	N/A	N/A	N/A	5019849
22'33'6'-PentaCB-(84)	ng/g	0.014 U (1)	0.014	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(85)+(116)+(117)	ng/g	0.0155 J	0.0023	0.030	N/A	N/A	N/A	N/A	5019849
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.0452 J	0.0023	0.060	N/A	N/A	N/A	N/A	5019849
PentaCB-(88)+(91)	ng/g	0.0139 J	0.0026	0.020	N/A	N/A	N/A	N/A	5019849
22'346'-PentaCB-(89)	ng/g	0.0028 U	0.0028	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(90)+(101)+(113)	ng/g	0.164	0.0024	0.030	N/A	N/A	N/A	N/A	5019849
22'355'-PentaCB-(92)	ng/g	0.0306 Q	0.0028	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.0026 U	0.0026	0.040	N/A	N/A	N/A	N/A	5019849
22'356'-PentaCB-(94)	ng/g	0.0028 U	0.0028	0.010	N/A	N/A	N/A	N/A	5019849
22'35'6'-PentaCB-(95)	ng/g	0.0811 Q	0.0025	0.010	N/A	N/A	N/A	N/A	5019849
22'366'-PentaCB-(96)	ng/g	0.0042 U	0.0042	0.010	N/A	N/A	N/A	N/A	5019849
22'45'6'-PentaCB-(103)	ng/g	0.0024 U (1)	0.0024	0.010	N/A	N/A	N/A	N/A	5019849
22'466'-PentaCB-(104)	ng/g	0.0034 U	0.0034	0.010	N/A	N/A	N/A	N/A	5019849
233'44'-PentaCB-(105)	ng/g	0.029 U (1)	0.029	0.010	N/A	0.0000300	0.000000870	N/A	5019849
233'45'-PentaCB-(106)	ng/g	0.0040 U	0.0040	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(107)	ng/g	0.0104	0.0034	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(108)+(124)	ng/g	0.0037 U	0.0037	0.020	N/A	N/A	N/A	N/A	5019849
PentaCB-(110)+(115)	ng/g	0.106	0.0023	0.020	N/A	N/A	N/A	N/A	5019849
233'55'-PentaCB-(111)	ng/g	0.0020 U	0.0020	0.010	N/A	N/A	N/A	N/A	5019849
233'56'-PentaCB-(112)	ng/g	0.0021 U	0.0021	0.010	N/A	N/A	N/A	N/A	5019849
2344'5'-PentaCB-(114)	ng/g	0.0046 U	0.0046	0.010	N/A	0.0000300	0.000000138	N/A	5019849
23'44'5'-PentaCB-(118)	ng/g	0.0929	0.0046	0.010	N/A	0.0000300	0.00000279	N/A	5019849
23'455'-PentaCB-(120)	ng/g	0.0019 U	0.0019	0.010	N/A	N/A	N/A	N/A	5019849

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Sampling Date		2017/04/26 07:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-SMA3-GEO-COC-170426	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'45'6-PentaCB-(121)	ng/g	0.0020 U	0.0020	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(122)	ng/g	0.0040 U	0.0040	0.010	N/A	N/A	N/A	N/A	5019849
23'44'5'-PentaCB-(123)	ng/g	0.0051 U	0.0051	0.010	N/A	0.0000300	0.000000153	N/A	5019849
33'44'5'-PentaCB-(126)	ng/g	0.0043 U	0.0043	0.010	N/A	0.100	0.000430	N/A	5019849
33'455'-PentaCB-(127)	ng/g	0.0037 U	0.0037	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(128)+(166)	ng/g	0.0317	0.0051	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(129)+(138)+(163)	ng/g	0.261 Q	0.0054	0.030	N/A	N/A	N/A	N/A	5019849
22'33'45'-HexaCB-(130)	ng/g	0.0193	0.0064	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(131)	ng/g	0.0073 U	0.0073	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(132)	ng/g	0.0741	0.0068	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'-HexaCB-(133)	ng/g	0.0067 J	0.0059	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(134)+(143)	ng/g	0.0127 J	0.0067	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(135)+(151)	ng/g	0.0944	0.0035	0.020	N/A	N/A	N/A	N/A	5019849
22'33'66'-HexaCB-(136)	ng/g	0.0282	0.0023	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'-HexaCB-(137)	ng/g	0.0060 U	0.0060	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(139)+(140)	ng/g	0.0054 U	0.0054	0.020	N/A	N/A	N/A	N/A	5019849
22'3455'-HexaCB-(141)	ng/g	0.0140	0.0061	0.010	N/A	N/A	N/A	N/A	5019849
22'3456'-HexaCB-(142)	ng/g	0.0065 U	0.0065	0.010	N/A	N/A	N/A	N/A	5019849
22'345'6'-HexaCB-(144)	ng/g	0.012 U (1)	0.012	0.010	N/A	N/A	N/A	N/A	5019849
22'3466'-HexaCB-(145)	ng/g	0.0026 U	0.0026	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'-HexaCB-(146)	ng/g	0.0659 Q	0.0050	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(147)+(149)	ng/g	0.242	0.0054	0.020	N/A	N/A	N/A	N/A	5019849
22'34'56'-HexaCB-(148)	ng/g	0.0032 U	0.0032	0.010	N/A	N/A	N/A	N/A	5019849
22'34'66'-HexaCB-(150)	ng/g	0.0024 U	0.0024	0.010	N/A	N/A	N/A	N/A	5019849
22'3566'-HexaCB-(152)	ng/g	0.0023 U	0.0023	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(153)+(168)	ng/g	0.333 B	0.0042	0.010	N/A	N/A	N/A	N/A	5019849
22'44'56'-HexaCB-(154)	ng/g	0.0028 U (1)	0.0028	0.010	N/A	N/A	N/A	N/A	5019849
22'44'66'-HexaCB-(155)	ng/g	0.0020 U	0.0020	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(156)+(157)	ng/g	0.0095 JQ	0.0049	0.020	N/A	0.0000300	0.000000285	N/A	5019849
233'44'6'-HexaCB-(158)	ng/g	0.0200 Q	0.0040	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY567							
Sampling Date		2017/04/26 07:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-SMA3-GEO-COC-170426	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'455'-HexaCB-(159)	ng/g	0.0041 U	0.0041	0.010	N/A	N/A	N/A	N/A	5019849
233'456'-HexaCB-(160)	ng/g	0.0046 U	0.0046	0.010	N/A	N/A	N/A	N/A	5019849
233'45'6'-HexaCB-(161)	ng/g	0.0043 U	0.0043	0.010	N/A	N/A	N/A	N/A	5019849
233'4'55'-HexaCB-(162)	ng/g	0.0041 U	0.0041	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'6'-HexaCB-(164)	ng/g	0.015 U (1)	0.015	0.010	N/A	N/A	N/A	N/A	5019849
233'55'6'-HexaCB-(165)	ng/g	0.0047 U	0.0047	0.010	N/A	N/A	N/A	N/A	5019849
23'44'55'-HexaCB-(167)	ng/g	0.0064 U (1)	0.0064	0.010	N/A	0.0000300	0.000000192	N/A	5019849
33'44'55'-HexaCB-(169)	ng/g	0.0049 U	0.0049	0.010	N/A	0.0300	0.000147	N/A	5019849
22'33'44'5'-HeptaCB-(170)	ng/g	0.0095 UQ (1)	0.0095	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(171)+(173)	ng/g	0.0273	0.0055	0.020	N/A	N/A	N/A	N/A	5019849
22'33'455'-HeptaCB-(172)	ng/g	0.0055 U	0.0055	0.010	N/A	N/A	N/A	N/A	5019849
22'33'456'-HeptaCB-(174)	ng/g	0.0422	0.0051	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(175)	ng/g	0.0028 U	0.0028	0.010	N/A	N/A	N/A	N/A	5019849
22'33'466'-HeptaCB-(176)	ng/g	0.011 U (1)	0.011	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(177)	ng/g	0.0536 Q	0.0054	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'6'-HeptaCB-(178)	ng/g	0.0283 Q	0.0032	0.010	N/A	N/A	N/A	N/A	5019849
22'33'566'-HeptaCB-(179)	ng/g	0.0396	0.0022	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(180)+(193)	ng/g	0.0598	0.0039	0.020	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(181)	ng/g	0.0054 U	0.0054	0.010	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(182)	ng/g	0.0030 U	0.0030	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'6'-HeptaCB-(183)	ng/g	0.0583 Q	0.0045	0.010	N/A	N/A	N/A	N/A	5019849
22'344'66'-HeptaCB-(184)	ng/g	0.0021 U	0.0021	0.010	N/A	N/A	N/A	N/A	5019849
22'3455'6'-HeptaCB-(185)	ng/g	0.0055 U	0.0055	0.010	N/A	N/A	N/A	N/A	5019849
22'34566'-HeptaCB-(186)	ng/g	0.0024 U	0.0024	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'6'-HeptaCB-(187)	ng/g	0.150 Q	0.0029	0.010	N/A	N/A	N/A	N/A	5019849
22'34'566'-HeptaCB-(188)	ng/g	0.0024 U	0.0024	0.010	N/A	N/A	N/A	N/A	5019849
233'44'55'-HeptaCB-(189)	ng/g	0.0057 U	0.0057	0.010	N/A	0.0000300	0.000000171	N/A	5019849
233'44'56'-HeptaCB-(190)	ng/g	0.0089 U (1)	0.0089	0.010	N/A	N/A	N/A	N/A	5019849
233'44'5'6'-HeptaCB-(191)	ng/g	0.0039 U	0.0039	0.010	N/A	N/A	N/A	N/A	5019849
233'455'6'-HeptaCB-(192)	ng/g	0.0044 U	0.0044	0.010	N/A	N/A	N/A	N/A	5019849

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Maxxam ID		EIY567							
Sampling Date		2017/04/26 07:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-SMA3-GEO-COC-170426	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'33'44'55'-OctaCB-(194)	ng/g	0.0054 U	0.0054	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(195)	ng/g	0.0155	0.0057	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(196)	ng/g	0.0137	0.0041	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'66'-OctaCB-(197)	ng/g	0.0047 U (1)	0.0047	0.010	N/A	N/A	N/A	N/A	5019849
OctaCB-(198)+(199)	ng/g	0.0398	0.0043	0.020	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(200)	ng/g	0.0032 U	0.0032	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(201)	ng/g	0.0125	0.0028	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'66'-OctaCB-(202)	ng/g	0.0244	0.0031	0.010	N/A	N/A	N/A	N/A	5019849
22'344'55'6'-OctaCB-(203)	ng/g	0.0323	0.0041	0.010	N/A	N/A	N/A	N/A	5019849
22'344'566'-OctaCB-(204)	ng/g	0.0028 U	0.0028	0.010	N/A	N/A	N/A	N/A	5019849
233'44'55'6'-OctaCB-(205)	ng/g	0.0045 U	0.0045	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'55'6'-NonaCB-(206)	ng/g	0.019 U (1)	0.019	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'566'-NonaCB-(207)	ng/g	0.0062 U (1)	0.0062	0.010	N/A	N/A	N/A	N/A	5019849
22'33'455'66'-NonaCB-(208)	ng/g	0.019 U (1)	0.019	0.010	N/A	N/A	N/A	N/A	5019849
DecaCB-(209)	ng/g	0.037 U (1)	0.037	0.010	N/A	N/A	N/A	N/A	5019849
Total PCB	ng/g	2.85	N/A	N/A	N/A	N/A	N/A	N/A	5019849
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.000583	N/A	N/A
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	85	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'55'6'-NonaCB-(206)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'5'-HeptaCB-(170)	%	142 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'455'66'-NonaCB-(208)	%	142 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'66'-OctaCB-(202)	%	176 Q (2)	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'6'-HeptaCB-(178)	%	92	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'344'55'-HeptaCB-(180)	%	155 Q (2)	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'34'566'-HeptaCB-(188)	%	108	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'44'66'-HexaCB-(155)	%	117	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'466'-PentaCB-(104)	%	82	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'66'-TetraCB-(54)	%	58	N/A	N/A	N/A	N/A	N/A	N/A	5019849
EDL = Estimated Detection Limit RDL = Reportable Detection Limit TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient, The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested. WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds QC Batch = Quality Control Batch N/A = Not Applicable (1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit. (2) Internal standard recovery is outside method limits. Dilution not needed due to trace levels in the sample.									

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY567							
Sampling Date		2017/04/26 07:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-SMA3-GEO-COC-170426	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-22'6'-TriCB-(19)	%	46	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'44'-DiCB-(4)	%	43	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'6'-OctaCB-(205)	%	106	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'1'-HeptaCB-(189)	%	151 Q (1)	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'5'-PentaCB-(105)	%	88	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'55'1'-PentaCB-(111)	%	99	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'55'1'-HexaCB-(167)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2344'5'-PentaCB-(114)	%	92	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'5'-PentaCB-(118)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2'344'5'-PentaCB-(123)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2-MonoCB-(1)	%	39	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'55'1'-HexaCB-(169)	%	52	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'5'-PentaCB-(126)	%	85	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'1'-TetraCB-(77)	%	108	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'5'-TetraCB-(81)	%	103	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'1'-TriCB-(37)	%	99	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-44'1'-DiCB-(15)	%	72	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-4-MonoCB-(3)	%	43	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-DecaCB-(209)	%	77	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-HexaCB-(156)+(157)	%	86	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) Internal standard recovery is outside method limits. Dilution not needed due to trace levels in the sample.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY568							
Sampling Date		2017/04/26 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-SMA3-DUNM-COC-170426	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch

PCBs									
2-MonoCB-(1)	ng/g	0.00087 U	0.00087	0.010	N/A	N/A	N/A	N/A	5019849
3-MonoCB-(2)	ng/g	0.00071 U	0.00071	0.010	N/A	N/A	N/A	N/A	5019849
4-MonoCB-(3)	ng/g	0.00087 U	0.00087	0.010	N/A	N/A	N/A	N/A	5019849
2,2'-DiCB-(4)	ng/g	0.0031 U	0.0031	0.010	N/A	N/A	N/A	N/A	5019849
2,3-DiCB-(5)	ng/g	0.0023 U	0.0023	0.010	N/A	N/A	N/A	N/A	5019849
2,3'-DiCB-(6)	ng/g	0.0019 U	0.0019	0.010	N/A	N/A	N/A	N/A	5019849
2,4-DiCB-(7)	ng/g	0.0019 U	0.0019	0.010	N/A	N/A	N/A	N/A	5019849
2,4'-DiCB-(8)	ng/g	0.0017 UQ	0.0017	0.010	N/A	N/A	N/A	N/A	5019849
2,5-DiCB-(9)	ng/g	0.0019 U	0.0019	0.010	N/A	N/A	N/A	N/A	5019849
2,6-DiCB-(10)	ng/g	0.0032 U	0.0032	0.010	N/A	N/A	N/A	N/A	5019849
3,3'-DiCB-(11)	ng/g	0.0034 J	0.0019	0.010	N/A	N/A	N/A	N/A	5019849
DiCB-(12)+(13)	ng/g	0.0020 U	0.0020	0.020	N/A	N/A	N/A	N/A	5019849
3,5-DiCB-(14)	ng/g	0.0018 U	0.0018	0.010	N/A	N/A	N/A	N/A	5019849
4,4'-DiCB-(15)	ng/g	0.0073 U (1)	0.0073	0.010	N/A	N/A	N/A	N/A	5019849
2,2',3-TriCB-(16)	ng/g	0.0069 U	0.0069	0.010	N/A	N/A	N/A	N/A	5019849
2,2',4-TriCB-(17)	ng/g	0.0053 U	0.0053	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(18)+(30)	ng/g	0.0042 U	0.0042	0.020	N/A	N/A	N/A	N/A	5019849
2,2',6-TriCB-(19)	ng/g	0.0038 U	0.0038	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(20) + (28)	ng/g	0.0527	0.0020	0.020	N/A	N/A	N/A	N/A	5019849
TriCB-(21)+(33)	ng/g	0.0022 U	0.0022	0.020	N/A	N/A	N/A	N/A	5019849
2,3,4'-TriCB-(22)	ng/g	0.0050 U (1)	0.0050	0.010	N/A	N/A	N/A	N/A	5019849
2,3,5-TriCB-(23)	ng/g	0.0022 U	0.0022	0.010	N/A	N/A	N/A	N/A	5019849
2,3,6-TriCB-(24)	ng/g	0.0037 U	0.0037	0.010	N/A	N/A	N/A	N/A	5019849
2,3',4-TriCB-(25)	ng/g	0.0021 U	0.0021	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(26)+(29)	ng/g	0.0020 U	0.0020	0.020	N/A	N/A	N/A	N/A	5019849
2,3',6-TriCB-(27)	ng/g	0.0037 U	0.0037	0.010	N/A	N/A	N/A	N/A	5019849
2,4',5-TriCB-(31)	ng/g	0.0153 Q	0.0019	0.010	N/A	N/A	N/A	N/A	5019849
2,4',6-TriCB-(32)	ng/g	0.0033 U	0.0033	0.010	N/A	N/A	N/A	N/A	5019849
2,3',5'-TriCB-(34)	ng/g	0.0021 U	0.0021	0.010	N/A	N/A	N/A	N/A	5019849

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WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY568							
Sampling Date		2017/04/26 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-SMA3-DUNM-COC-170426	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'4'-TriCB-(35)	ng/g	0.0022 U	0.0022	0.010	N/A	N/A	N/A	N/A	5019849
33'5'-TriCB-(36)	ng/g	0.0018 U	0.0018	0.010	N/A	N/A	N/A	N/A	5019849
344'-TriCB-(37)	ng/g	0.011 U (1)	0.011	0.010	N/A	N/A	N/A	N/A	5019849
345'-TriCB-(38)	ng/g	0.0023 U	0.0023	0.010	N/A	N/A	N/A	N/A	5019849
34'5'-TriCB-(39)	ng/g	0.0020 U	0.0020	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(40)+(41)+(71)	ng/g	0.0089 J	0.0055	0.030	N/A	N/A	N/A	N/A	5019849
22'34'-TetraCB-(42)	ng/g	0.0070 J	0.0064	0.010	N/A	N/A	N/A	N/A	5019849
22'35'-TetraCB-(43)	ng/g	0.0074 U	0.0074	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(44)+(47)+(65)	ng/g	0.0395	0.0049	0.030	N/A	N/A	N/A	N/A	5019849
TetraCB-(45)+(51)	ng/g	0.0054 UQ	0.0054	0.020	N/A	N/A	N/A	N/A	5019849
22'36'-TetraCB-(46)	ng/g	0.0067 U	0.0067	0.010	N/A	N/A	N/A	N/A	5019849
22'45'-TetraCB-(48)	ng/g	0.0054 U	0.0054	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(49)+TetraCB-(69)	ng/g	0.0224	0.0046	0.020	N/A	N/A	N/A	N/A	5019849
TetraCB-(50)+(53)	ng/g	0.0051 U	0.0051	0.020	N/A	N/A	N/A	N/A	5019849
22'55'-TetraCB-(52)	ng/g	0.0572 Q	0.0053	0.010	N/A	N/A	N/A	N/A	5019849
22'66'-TetraCB-(54)	ng/g	0.0010 U	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-TetraCB-(55)	ng/g	0.0024 U	0.0024	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-Tetra CB(56)	ng/g	0.0032 JQ	0.0023	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(57)	ng/g	0.0020 U	0.0020	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(58)	ng/g	0.0021 U	0.0021	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(59)+(62)+(75)	ng/g	0.0040 U	0.0040	0.030	N/A	N/A	N/A	N/A	5019849
2344'-TetraCB -(60)	ng/g	0.0072 J	0.0025	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.0522	0.0022	0.040	N/A	N/A	N/A	N/A	5019849
234'5'-TetraCB-(63)	ng/g	0.0020 UQ	0.0020	0.010	N/A	N/A	N/A	N/A	5019849
234'6'-TetraCB-(64)	ng/g	0.0190	0.0043	0.010	N/A	N/A	N/A	N/A	5019849
23'44'-TetraCB-(66)	ng/g	0.0269	0.0021	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(67)	ng/g	0.0019 U	0.0019	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(68)	ng/g	0.0020 U (1)	0.0020	0.010	N/A	N/A	N/A	N/A	5019849
23'55'-TetraCB-(72)	ng/g	0.0018 U	0.0018	0.010	N/A	N/A	N/A	N/A	5019849
23'5'6'-TetraCB-(73)	ng/g	0.0038 U	0.0038	0.010	N/A	N/A	N/A	N/A	5019849

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QC Batch = Quality Control Batch
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(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY568							
Sampling Date		2017/04/26 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-SMA3-DUNM-COC-170426	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'44'-TetraCB-(77)	ng/g	0.0030 U	0.0030	0.010	N/A	0.000100	0.000000300	N/A	5019849
33'45'-TetraCB-(78)	ng/g	0.0023 U	0.0023	0.010	N/A	N/A	N/A	N/A	5019849
33'45'-TetraCB-(79)	ng/g	0.0020 U	0.0020	0.010	N/A	N/A	N/A	N/A	5019849
33'55'-TetraCB-(80)	ng/g	0.0021 U	0.0021	0.010	N/A	N/A	N/A	N/A	5019849
344'5'-TetraCB-(81)	ng/g	0.0030 U	0.0030	0.010	N/A	0.000300	0.000000900	N/A	5019849
22'33'4'-PentaCB-(82)	ng/g	0.0062 UQ	0.0062	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(83)+(99)	ng/g	0.167	0.0054	0.020	N/A	N/A	N/A	N/A	5019849
22'33'6'-PentaCB-(84)	ng/g	0.0058 U	0.0058	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(85)+(116)+(117)	ng/g	0.0289 J	0.0043	0.030	N/A	N/A	N/A	N/A	5019849
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.0421 J	0.0043	0.060	N/A	N/A	N/A	N/A	5019849
PentaCB-(88)+(91)	ng/g	0.0089 J	0.0049	0.020	N/A	N/A	N/A	N/A	5019849
22'346'-PentaCB-(89)	ng/g	0.0052 U	0.0052	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(90)+(101)+(113)	ng/g	0.141	0.0046	0.030	N/A	N/A	N/A	N/A	5019849
22'355'-PentaCB-(92)	ng/g	0.0235 Q	0.0053	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.0048 U	0.0048	0.040	N/A	N/A	N/A	N/A	5019849
22'356'-PentaCB-(94)	ng/g	0.0052 U	0.0052	0.010	N/A	N/A	N/A	N/A	5019849
22'35'6'-PentaCB-(95)	ng/g	0.0296 Q	0.0046	0.010	N/A	N/A	N/A	N/A	5019849
22'366'-PentaCB-(96)	ng/g	0.0017 U	0.0017	0.010	N/A	N/A	N/A	N/A	5019849
22'45'6'-PentaCB-(103)	ng/g	0.0041 U	0.0041	0.010	N/A	N/A	N/A	N/A	5019849
22'466'-PentaCB-(104)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	5019849
233'44'-PentaCB-(105)	ng/g	0.0438	0.0013	0.010	N/A	0.0000300	0.00000131	N/A	5019849
233'45'-PentaCB-(106)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(107)	ng/g	0.00934 J	0.00095	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(108)+(124)	ng/g	0.0024 J	0.0010	0.020	N/A	N/A	N/A	N/A	5019849
PentaCB-(110)+(115)	ng/g	0.0708	0.0042	0.020	N/A	N/A	N/A	N/A	5019849
233'55'-PentaCB-(111)	ng/g	0.0038 U	0.0038	0.010	N/A	N/A	N/A	N/A	5019849
233'56'-PentaCB-(112)	ng/g	0.0039 U	0.0039	0.010	N/A	N/A	N/A	N/A	5019849
2344'5'-PentaCB-(114)	ng/g	0.0027 J	0.0013	0.010	N/A	0.0000300	0.000000810	N/A	5019849
23'44'5'-PentaCB-(118)	ng/g	0.122	0.0013	0.010	N/A	0.0000300	0.00000366	N/A	5019849
23'455'-PentaCB-(120)	ng/g	0.0036 U	0.0036	0.010	N/A	N/A	N/A	N/A	5019849
23'45'6'-PentaCB-(121)	ng/g	0.0037 U	0.0037	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY568							
Sampling Date		2017/04/26 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-SMA3-DUNM-COC-170426	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'4'5'-PentaCB-(122)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
23'44'5'-PentaCB-(123)	ng/g	0.0014 U	0.0014	0.010	N/A	0.0000300	0.0000000420	N/A	5019849
33'44'5'-PentaCB-(126)	ng/g	0.0012 U	0.0012	0.010	N/A	0.100	0.000120	N/A	5019849
33'45'5'-PentaCB-(127)	ng/g	0.0010 U	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(128)+(166)	ng/g	0.0546	0.0058	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(129)+(138)+(163)	ng/g	0.555 Q	0.0063	0.030	N/A	N/A	N/A	N/A	5019849
22'33'45'-HexaCB-(130)	ng/g	0.0245	0.0074	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(131)	ng/g	0.0085 U	0.0085	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(132)	ng/g	0.030 U (1)	0.030	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'-HexaCB-(133)	ng/g	0.0109	0.0068	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(134)+(143)	ng/g	0.0077 U	0.0077	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(135)+(151)	ng/g	0.0678	0.0050	0.020	N/A	N/A	N/A	N/A	5019849
22'33'66'-HexaCB-(136)	ng/g	0.0081 J	0.0033	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'-HexaCB-(137)	ng/g	0.0126	0.0069	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(139)+(140)	ng/g	0.0062 U	0.0062	0.020	N/A	N/A	N/A	N/A	5019849
22'3455'-HexaCB-(141)	ng/g	0.0225	0.0071	0.010	N/A	N/A	N/A	N/A	5019849
22'3456'-HexaCB-(142)	ng/g	0.0075 U	0.0075	0.010	N/A	N/A	N/A	N/A	5019849
22'345'6'-HexaCB-(144)	ng/g	0.0059 U (1)	0.0059	0.010	N/A	N/A	N/A	N/A	5019849
22'3466'-HexaCB-(145)	ng/g	0.0037 U	0.0037	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'-HexaCB-(146)	ng/g	0.0874 Q	0.0057	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(147)+(149)	ng/g	0.205	0.0062	0.020	N/A	N/A	N/A	N/A	5019849
22'34'56'-HexaCB-(148)	ng/g	0.0045 U	0.0045	0.010	N/A	N/A	N/A	N/A	5019849
22'34'66'-HexaCB-(150)	ng/g	0.0033 U	0.0033	0.010	N/A	N/A	N/A	N/A	5019849
22'3566'-HexaCB-(152)	ng/g	0.0033 U	0.0033	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(153)+(168)	ng/g	0.574 B	0.0049	0.010	N/A	N/A	N/A	N/A	5019849
22'44'56'-HexaCB-(154)	ng/g	0.0084 J	0.0040	0.010	N/A	N/A	N/A	N/A	5019849
22'44'66'-HexaCB-(155)	ng/g	0.0029 U	0.0029	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(156)+(157)	ng/g	0.0241 Q	0.0051	0.020	N/A	0.0000300	0.000000723	N/A	5019849
233'44'6'-HexaCB-(158)	ng/g	0.0216 Q	0.0046	0.010	N/A	N/A	N/A	N/A	5019849
233'455'-HexaCB-(159)	ng/g	0.0043 U	0.0043	0.010	N/A	N/A	N/A	N/A	5019849

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QC Batch = Quality Control Batch
N/A = Not Applicable
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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY568							
Sampling Date		2017/04/26 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-SMA3-DUNM-COC-170426	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'456-HexaCB-(160)	ng/g	0.0053 U	0.0053	0.010	N/A	N/A	N/A	N/A	5019849
233'45'6-HexaCB-(161)	ng/g	0.0049 U	0.0049	0.010	N/A	N/A	N/A	N/A	5019849
233'4'55'-HexaCB-(162)	ng/g	0.0043 U	0.0043	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'6-HexaCB-(164)	ng/g	0.0095 U (1)	0.0095	0.010	N/A	N/A	N/A	N/A	5019849
233'55'6-HexaCB-(165)	ng/g	0.0054 U	0.0054	0.010	N/A	N/A	N/A	N/A	5019849
23'44'55'-HexaCB-(167)	ng/g	0.0073 J	0.0048	0.010	N/A	0.0000300	0.000000219	N/A	5019849
33'44'55'-HexaCB-(169)	ng/g	0.0051 U	0.0051	0.010	N/A	0.0300	0.000153	N/A	5019849
22'33'44'5-HeptaCB-(170)	ng/g	0.0615 Q	0.0027	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(171)+(173)	ng/g	0.0267	0.0040	0.020	N/A	N/A	N/A	N/A	5019849
22'33'455'-HeptaCB-(172)	ng/g	0.0104	0.0039	0.010	N/A	N/A	N/A	N/A	5019849
22'33'456'-HeptaCB-(174)	ng/g	0.0292	0.0036	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6-HeptaCB-(175)	ng/g	0.0047 U	0.0047	0.010	N/A	N/A	N/A	N/A	5019849
22'33'466'-HeptaCB-(176)	ng/g	0.0053 J	0.0039	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(177)	ng/g	0.0501 Q	0.0039	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'6-HeptaCB-(178)	ng/g	0.0295 Q	0.0053	0.010	N/A	N/A	N/A	N/A	5019849
22'33'566'-HeptaCB-(179)	ng/g	0.017 U (1)	0.017	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(180)+(193)	ng/g	0.157	0.0028	0.020	N/A	N/A	N/A	N/A	5019849
22'344'56-HeptaCB-(181)	ng/g	0.0039 U	0.0039	0.010	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(182)	ng/g	0.0051 U	0.0051	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'6-HeptaCB-(183)	ng/g	0.0611 Q	0.0033	0.010	N/A	N/A	N/A	N/A	5019849
22'344'66'-HeptaCB-(184)	ng/g	0.0035 U	0.0035	0.010	N/A	N/A	N/A	N/A	5019849
22'3455'6-HeptaCB-(185)	ng/g	0.0039 U	0.0039	0.010	N/A	N/A	N/A	N/A	5019849
22'34566'-HeptaCB-(186)	ng/g	0.0039 U	0.0039	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'6-HeptaCB-(187)	ng/g	0.181 Q	0.0048	0.010	N/A	N/A	N/A	N/A	5019849
22'34'566'-HeptaCB-(188)	ng/g	0.0041 U	0.0041	0.010	N/A	N/A	N/A	N/A	5019849
233'44'55'-HeptaCB-(189)	ng/g	0.0036 U	0.0036	0.010	N/A	0.0000300	0.000000108	N/A	5019849
233'44'56-HeptaCB-(190)	ng/g	0.0127	0.0030	0.010	N/A	N/A	N/A	N/A	5019849
233'44'5'6-HeptaCB-(191)	ng/g	0.0028 U	0.0028	0.010	N/A	N/A	N/A	N/A	5019849
233'455'6-HeptaCB-(192)	ng/g	0.0032 U	0.0032	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'55'-OctaCB-(194)	ng/g	0.0242	0.0059	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY568							
Sampling Date		2017/04/26 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-SMA3-DUNM-COC-170426	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'33'44'56'-OctaCB-(195)	ng/g	0.0120	0.0062	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(196)	ng/g	0.015 U (1)	0.015	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'66'-OctaCB-(197)	ng/g	0.0037 U	0.0037	0.010	N/A	N/A	N/A	N/A	5019849
OctaCB-(198)+(199)	ng/g	0.0421	0.0059	0.020	N/A	N/A	N/A	N/A	5019849
22'33'4566'-OctaCB-(200)	ng/g	0.0044 U	0.0044	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(201)	ng/g	0.0062 J	0.0039	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'66'-OctaCB-(202)	ng/g	0.0189	0.0043	0.010	N/A	N/A	N/A	N/A	5019849
22'344'55'6'-OctaCB-(203)	ng/g	0.0233	0.0057	0.010	N/A	N/A	N/A	N/A	5019849
22'344'566'-OctaCB-(204)	ng/g	0.0039 U	0.0039	0.010	N/A	N/A	N/A	N/A	5019849
233'44'55'6'-OctaCB-(205)	ng/g	0.0049 U	0.0049	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'55'6'-NonaCB-(206)	ng/g	0.0127	0.0048	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'566'-NonaCB-(207)	ng/g	0.0038 U	0.0038	0.010	N/A	N/A	N/A	N/A	5019849
22'33'455'66'-NonaCB-(208)	ng/g	0.0063 U (1)	0.0063	0.010	N/A	N/A	N/A	N/A	5019849
DecaCB-(209)	ng/g	0.013 U	0.013	0.010	N/A	N/A	N/A	N/A	5019849
Total PCB	ng/g	3.46	N/A	N/A	N/A	N/A	N/A	N/A	5019849
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.000280	N/A	N/A
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	71	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'55'6'-NonaCB-(206)	%	89	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'5'-HeptaCB-(170)	%	109 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'455'66'-NonaCB-(208)	%	104	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'66'-OctaCB-(202)	%	118 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'6'-HeptaCB-(178)	%	87	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'344'55'-HeptaCB-(180)	%	109 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'34'566'-HeptaCB-(188)	%	87	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'44'66'-HexaCB-(155)	%	87	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'466'-PentaCB-(104)	%	71	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'66'-TetraCB-(54)	%	48	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'6'-TriCB-(19)	%	44	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'-DiCB-(4)	%	42	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY568							
Sampling Date		2017/04/26 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-SMA3-DUNM-COC-170426	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-233'44'55'6-OctaCB-(205)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'-HeptaCB-(189)	%	125	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'-PentaCB-(105)	%	111	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'55'-PentaCB-(111)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'55'-HexaCB-(167)	%	110	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2344'5-PentaCB-(114)	%	105	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'5-PentaCB-(118)	%	109	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2'344'5-PentaCB-(123)	%	110	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2-MonoCB-(1)	%	40	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'55'-HexaCB-(169)	%	54	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'5-PentaCB-(126)	%	114	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'-TetraCB-(77)	%	117	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'5-TetraCB-(81)	%	109	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'-TriCB-(37)	%	92	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-44'-DiCB-(15)	%	59	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-4-MonoCB-(3)	%	41	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-DecaCB-(209)	%	85	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-HexaCB-(156)+(157)	%	104	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY569							
Sampling Date		2017/04/26 12:15							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-SMA3-DUNH-COC-170426	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch

PCBs									
2-MonoCB-(1)	ng/g	0.0022 U	0.0022	0.010	N/A	N/A	N/A	N/A	5019849
3-MonoCB-(2)	ng/g	0.0018 U	0.0018	0.010	N/A	N/A	N/A	N/A	5019849
4-MonoCB-(3)	ng/g	0.0021 U	0.0021	0.010	N/A	N/A	N/A	N/A	5019849
2,2'-DiCB-(4)	ng/g	0.015 U	0.015	0.010	N/A	N/A	N/A	N/A	5019849
2,3-DiCB-(5)	ng/g	0.0092 U	0.0092	0.010	N/A	N/A	N/A	N/A	5019849
2,3'-DiCB-(6)	ng/g	0.0074 U	0.0074	0.010	N/A	N/A	N/A	N/A	5019849
2,4-DiCB-(7)	ng/g	0.0075 U	0.0075	0.010	N/A	N/A	N/A	N/A	5019849
2,4'-DiCB-(8)	ng/g	0.0093 JQ	0.0065	0.010	N/A	N/A	N/A	N/A	5019849
2,5-DiCB-(9)	ng/g	0.0075 U	0.0075	0.010	N/A	N/A	N/A	N/A	5019849
2,6-DiCB-(10)	ng/g	0.015 U	0.015	0.010	N/A	N/A	N/A	N/A	5019849
3,3'-DiCB-(11)	ng/g	0.0127	0.0075	0.010	N/A	N/A	N/A	N/A	5019849
DiCB-(12)+(13)	ng/g	0.0079 U	0.0079	0.020	N/A	N/A	N/A	N/A	5019849
3,5-DiCB-(14)	ng/g	0.0073 U	0.0073	0.010	N/A	N/A	N/A	N/A	5019849
4,4'-DiCB-(15)	ng/g	0.031	0.013	0.010	N/A	N/A	N/A	N/A	5019849
2,2',3-TriCB-(16)	ng/g	0.032 U	0.032	0.010	N/A	N/A	N/A	N/A	5019849
2,2',4-TriCB-(17)	ng/g	0.032	0.025	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(18)+(30)	ng/g	0.039	0.020	0.020	N/A	N/A	N/A	N/A	5019849
2,2',6-TriCB-(19)	ng/g	0.018 U	0.018	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(20) + (28)	ng/g	0.726	0.0036	0.020	N/A	N/A	N/A	N/A	5019849
TriCB-(21)+(33)	ng/g	0.0226	0.0039	0.020	N/A	N/A	N/A	N/A	5019849
2,3,4'-TriCB-(22)	ng/g	0.0647	0.0039	0.010	N/A	N/A	N/A	N/A	5019849
2,3,5-TriCB-(23)	ng/g	0.0039 U	0.0039	0.010	N/A	N/A	N/A	N/A	5019849
2,3,6-TriCB-(24)	ng/g	0.017 U	0.017	0.010	N/A	N/A	N/A	N/A	5019849
2,3',4-TriCB-(25)	ng/g	0.0104	0.0037	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(26)+(29)	ng/g	0.0220	0.0036	0.020	N/A	N/A	N/A	N/A	5019849
2,3',6-TriCB-(27)	ng/g	0.017 U	0.017	0.010	N/A	N/A	N/A	N/A	5019849
2,4',5-TriCB-(31)	ng/g	0.239 Q	0.0034	0.010	N/A	N/A	N/A	N/A	5019849
2,4',6-TriCB-(32)	ng/g	0.062	0.016	0.010	N/A	N/A	N/A	N/A	5019849
2,3',5'-TriCB-(34)	ng/g	0.0036 U	0.0036	0.010	N/A	N/A	N/A	N/A	5019849
3,3',4-TriCB-(35)	ng/g	0.0038 U	0.0038	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY569							
Sampling Date		2017/04/26 12:15							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-SMA3-DUNH-COC-170426	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'5'-TriCB-(36)	ng/g	0.0032 U	0.0032	0.010	N/A	N/A	N/A	N/A	5019849
344'-TriCB-(37)	ng/g	0.0609	0.0066	0.010	N/A	N/A	N/A	N/A	5019849
345'-TriCB-(38)	ng/g	0.0040 U	0.0040	0.010	N/A	N/A	N/A	N/A	5019849
34'5'-TriCB-(39)	ng/g	0.0036 U	0.0036	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(40)+(41)+(71)	ng/g	0.208	0.011	0.030	N/A	N/A	N/A	N/A	5019849
22'34'-TetraCB-(42)	ng/g	0.229	0.012	0.010	N/A	N/A	N/A	N/A	5019849
22'35'-TetraCB-(43)	ng/g	0.033	0.014	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(44)+(47)+(65)	ng/g	1.01	0.0095	0.030	N/A	N/A	N/A	N/A	5019849
TetraCB-(45)+(51)	ng/g	0.017 JQ	0.011	0.020	N/A	N/A	N/A	N/A	5019849
22'36'-TetraCB-(46)	ng/g	0.013 U	0.013	0.010	N/A	N/A	N/A	N/A	5019849
22'45'-TetraCB-(48)	ng/g	0.093	0.011	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(49)+TetraCB-(69)	ng/g	0.772	0.0090	0.020	N/A	N/A	N/A	N/A	5019849
TetraCB-(50)+(53)	ng/g	0.0141 J	0.0099	0.020	N/A	N/A	N/A	N/A	5019849
22'55'-TetraCB-(52)	ng/g	1.90 Q	0.010	0.010	N/A	N/A	N/A	N/A	5019849
22'66'-TetraCB-(54)	ng/g	0.0020 U	0.0020	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-TetraCB-(55)	ng/g	0.0096 U	0.0096	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-Tetra CB(56)	ng/g	0.0655 Q	0.0094	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(57)	ng/g	0.0082 U	0.0082	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(58)	ng/g	0.0084 U	0.0084	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(59)+(62)+(75)	ng/g	0.0868	0.0077	0.030	N/A	N/A	N/A	N/A	5019849
2344'-TetraCB -(60)	ng/g	0.116	0.010	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.884	0.0088	0.040	N/A	N/A	N/A	N/A	5019849
234'5'-TetraCB-(63)	ng/g	0.0360 Q	0.0082	0.010	N/A	N/A	N/A	N/A	5019849
234'6'-TetraCB-(64)	ng/g	0.552	0.0084	0.010	N/A	N/A	N/A	N/A	5019849
23'44'-TetraCB-(66)	ng/g	0.478	0.0085	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(67)	ng/g	0.0081 J	0.0079	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(68)	ng/g	0.0136	0.0075	0.010	N/A	N/A	N/A	N/A	5019849
23'55'-TetraCB-(72)	ng/g	0.0194	0.0075	0.010	N/A	N/A	N/A	N/A	5019849
23'5'6'-TetraCB-(73)	ng/g	0.0073 U	0.0073	0.010	N/A	N/A	N/A	N/A	5019849
33'44'-TetraCB-(77)	ng/g	0.040	0.012	0.010	N/A	0.000100	0.00000400	N/A	5019849
33'45'-TetraCB-(78)	ng/g	0.0095 U	0.0095	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY569							
Sampling Date		2017/04/26 12:15							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-SMA3-DUNH-COC-170426	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'45'-TetraCB(79)	ng/g	0.0164	0.0082	0.010	N/A	N/A	N/A	N/A	5019849
33'55'-TetraCB-(80)	ng/g	0.0084 U	0.0084	0.010	N/A	N/A	N/A	N/A	5019849
344'5'-TetraCB-(81)	ng/g	0.012 U	0.012	0.010	N/A	0.000300	0.00000360	N/A	5019849
22'33'4'-PentaCB-(82)	ng/g	0.078 Q	0.016	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(83)+(99)	ng/g	4.61	0.014	0.020	N/A	N/A	N/A	N/A	5019849
22'33'6'-PentaCB-(84)	ng/g	0.158	0.015	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(85)+(116)+(117)	ng/g	0.798	0.011	0.030	N/A	N/A	N/A	N/A	5019849
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	1.05	0.011	0.060	N/A	N/A	N/A	N/A	5019849
PentaCB-(88)+(91)	ng/g	0.312	0.012	0.020	N/A	N/A	N/A	N/A	5019849
22'346'-PentaCB-(89)	ng/g	0.013 U	0.013	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(90)+(101)+(113)	ng/g	4.30	0.012	0.030	N/A	N/A	N/A	N/A	5019849
22'355'-PentaCB-(92)	ng/g	0.766 Q	0.014	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.054	0.012	0.040	N/A	N/A	N/A	N/A	5019849
22'356'-PentaCB-(94)	ng/g	0.013 U	0.013	0.010	N/A	N/A	N/A	N/A	5019849
22'35'6'-PentaCB-(95)	ng/g	1.09 Q	0.012	0.010	N/A	N/A	N/A	N/A	5019849
22'366'-PentaCB-(96)	ng/g	0.0038 U	0.0038	0.010	N/A	N/A	N/A	N/A	5019849
22'45'6'-PentaCB-(103)	ng/g	0.043	0.010	0.010	N/A	N/A	N/A	N/A	5019849
22'466'-PentaCB-(104)	ng/g	0.0031 U	0.0031	0.010	N/A	N/A	N/A	N/A	5019849
233'44'-PentaCB-(105)	ng/g	0.996	0.0087	0.010	N/A	0.0000300	0.0000299	N/A	5019849
233'45'-PentaCB-(106)	ng/g	0.0075 U	0.0075	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(107)	ng/g	0.241	0.0064	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(108)+(124)	ng/g	0.0679	0.0070	0.020	N/A	N/A	N/A	N/A	5019849
PentaCB-(110)+(115)	ng/g	2.23	0.011	0.020	N/A	N/A	N/A	N/A	5019849
233'55'-PentaCB-(111)	ng/g	0.0096 U	0.0096	0.010	N/A	N/A	N/A	N/A	5019849
233'56'-PentaCB-(112)	ng/g	0.0099 U	0.0099	0.010	N/A	N/A	N/A	N/A	5019849
2344'5'-PentaCB-(114)	ng/g	0.0551	0.0085	0.010	N/A	0.0000300	0.00000165	N/A	5019849
23'44'5'-PentaCB-(118)	ng/g	2.99	0.0085	0.010	N/A	0.0000300	0.0000897	N/A	5019849
23'455'-PentaCB-(120)	ng/g	0.0090 U	0.0090	0.010	N/A	N/A	N/A	N/A	5019849
23'45'6'-PentaCB-(121)	ng/g	0.0094 U	0.0094	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(122)	ng/g	0.0091 J	0.0075	0.010	N/A	N/A	N/A	N/A	5019849

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Maxxam ID		EIY569							
Sampling Date		2017/04/26 12:15							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-SMA3-DUNH-COC-170426	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'44'5'-PentaCB-(123)	ng/g	0.023 U (1)	0.023	0.010	N/A	0.0000300	0.000000690	N/A	5019849
33'44'5'-PentaCB-(126)	ng/g	0.0080 U	0.0080	0.010	N/A	0.100	0.000800	N/A	5019849
33'45'5'-PentaCB-(127)	ng/g	0.0069 U	0.0069	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(128)+(166)	ng/g	1.33	0.018	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(129)+(138)+(163)	ng/g	16.6 Q	0.019	0.030	N/A	N/A	N/A	N/A	5019849
22'33'45'-HexaCB-(130)	ng/g	0.657	0.023	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(131)	ng/g	0.044	0.026	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(132)	ng/g	1.17	0.024	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'-HexaCB-(133)	ng/g	0.343	0.021	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(134)+(143)	ng/g	0.159	0.024	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(135)+(151)	ng/g	2.44	0.015	0.020	N/A	N/A	N/A	N/A	5019849
22'33'66'-HexaCB-(136)	ng/g	0.267	0.010	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'-HexaCB-(137)	ng/g	0.384	0.021	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(139)+(140)	ng/g	0.131	0.019	0.020	N/A	N/A	N/A	N/A	5019849
22'3455'-HexaCB-(141)	ng/g	0.764	0.022	0.010	N/A	N/A	N/A	N/A	5019849
22'3456'-HexaCB-(142)	ng/g	0.023 U	0.023	0.010	N/A	N/A	N/A	N/A	5019849
22'345'6'-HexaCB-(144)	ng/g	0.180	0.014	0.010	N/A	N/A	N/A	N/A	5019849
22'3466'-HexaCB-(145)	ng/g	0.011 U	0.011	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'-HexaCB-(146)	ng/g	2.96 Q	0.018	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(147)+(149)	ng/g	6.52	0.019	0.020	N/A	N/A	N/A	N/A	5019849
22'34'56'-HexaCB-(148)	ng/g	0.014 U	0.014	0.010	N/A	N/A	N/A	N/A	5019849
22'34'66'-HexaCB-(150)	ng/g	0.021	0.010	0.010	N/A	N/A	N/A	N/A	5019849
22'3566'-HexaCB-(152)	ng/g	0.010 U	0.010	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(153)+(168)	ng/g	18.0 B	0.015	0.010	N/A	N/A	N/A	N/A	5019849
22'44'56'-HexaCB-(154)	ng/g	0.258	0.012	0.010	N/A	N/A	N/A	N/A	5019849
22'44'66'-HexaCB-(155)	ng/g	0.0088 U	0.0088	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(156)+(157)	ng/g	0.591 Q	0.018	0.020	N/A	0.0000300	0.0000177	N/A	5019849
233'44'6'-HexaCB-(158)	ng/g	0.590 Q	0.014	0.010	N/A	N/A	N/A	N/A	5019849
233'455'-HexaCB-(159)	ng/g	0.034	0.015	0.010	N/A	N/A	N/A	N/A	5019849
233'456'-HexaCB-(160)	ng/g	0.017 U	0.017	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY569							
Sampling Date		2017/04/26 12:15							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-SMA3-DUNH-COC-170426	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'45'6'-HexaCB-(161)	ng/g	0.015 U	0.015	0.010	N/A	N/A	N/A	N/A	5019849
233'4'55'-HexaCB-(162)	ng/g	0.023 U (1)	0.023	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'6'-HexaCB-(164)	ng/g	0.274	0.015	0.010	N/A	N/A	N/A	N/A	5019849
233'55'6'-HexaCB-(165)	ng/g	0.026 U (1)	0.026	0.010	N/A	N/A	N/A	N/A	5019849
23'44'55'-HexaCB-(167)	ng/g	0.202	0.017	0.010	N/A	0.0000300	0.00000606	N/A	5019849
33'44'55'-HexaCB-(169)	ng/g	0.018 U	0.018	0.010	N/A	0.0300	0.000540	N/A	5019849
22'33'44'5'-HeptaCB-(170)	ng/g	1.58 Q	0.029	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(171)+(173)	ng/g	0.602	0.042	0.020	N/A	N/A	N/A	N/A	5019849
22'33'455'-HeptaCB-(172)	ng/g	0.329	0.042	0.010	N/A	N/A	N/A	N/A	5019849
22'33'456'-HeptaCB-(174)	ng/g	0.795	0.039	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(175)	ng/g	0.069	0.015	0.010	N/A	N/A	N/A	N/A	5019849
22'33'466'-HeptaCB-(176)	ng/g	0.143	0.012	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(177)	ng/g	1.44 Q	0.041	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'6'-HeptaCB-(178)	ng/g	0.991 Q	0.016	0.010	N/A	N/A	N/A	N/A	5019849
22'33'566'-HeptaCB-(179)	ng/g	0.612	0.012	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(180)+(193)	ng/g	4.43	0.030	0.020	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(181)	ng/g	0.041 U	0.041	0.010	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(182)	ng/g	0.016 U	0.016	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'6'-HeptaCB-(183)	ng/g	1.76 Q	0.035	0.010	N/A	N/A	N/A	N/A	5019849
22'344'66'-HeptaCB-(184)	ng/g	0.011 U	0.011	0.010	N/A	N/A	N/A	N/A	5019849
22'3455'6'-HeptaCB-(185)	ng/g	0.042 U	0.042	0.010	N/A	N/A	N/A	N/A	5019849
22'34566'-HeptaCB-(186)	ng/g	0.012 U	0.012	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'6'-HeptaCB-(187)	ng/g	5.52 Q	0.015	0.010	N/A	N/A	N/A	N/A	5019849
22'34'566'-HeptaCB-(188)	ng/g	0.026	0.013	0.010	N/A	N/A	N/A	N/A	5019849
233'44'55'-HeptaCB-(189)	ng/g	0.054	0.012	0.010	N/A	0.0000300	0.00000162	N/A	5019849
233'44'56'-HeptaCB-(190)	ng/g	0.296	0.032	0.010	N/A	N/A	N/A	N/A	5019849
233'44'5'6'-HeptaCB-(191)	ng/g	0.059	0.030	0.010	N/A	N/A	N/A	N/A	5019849
233'455'6'-HeptaCB-(192)	ng/g	0.034 U	0.034	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'55'-OctaCB-(194)	ng/g	0.700	0.036	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(195)	ng/g	0.242	0.038	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY569							
Sampling Date		2017/04/26 12:15							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-SMA3-DUNH-COC-170426	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'33'44'56'-OctaCB-(196)	ng/g	0.453	0.021	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'66'-OctaCB-(197)	ng/g	0.069	0.014	0.010	N/A	N/A	N/A	N/A	5019849
OctaCB-(198)+(199)	ng/g	1.15	0.022	0.020	N/A	N/A	N/A	N/A	5019849
22'33'4566'-OctaCB-(200)	ng/g	0.059	0.016	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(201)	ng/g	0.147	0.014	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'66'-OctaCB-(202)	ng/g	0.508	0.016	0.010	N/A	N/A	N/A	N/A	5019849
22'344'55'6'-OctaCB-(203)	ng/g	0.654	0.021	0.010	N/A	N/A	N/A	N/A	5019849
22'344'566'-OctaCB-(204)	ng/g	0.014 U	0.014	0.010	N/A	N/A	N/A	N/A	5019849
233'44'55'6'-OctaCB-(205)	ng/g	0.030 U	0.030	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'55'6'-NonaCB-(206)	ng/g	0.392	0.0063	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'566'-NonaCB-(207)	ng/g	0.0363	0.0050	0.010	N/A	N/A	N/A	N/A	5019849
22'33'455'66'-NonaCB-(208)	ng/g	0.17 U (1)	0.17	0.010	N/A	N/A	N/A	N/A	5019849
DecaCB-(209)	ng/g	0.231	0.013	0.010	N/A	N/A	N/A	N/A	5019849
Total PCB	ng/g	105	N/A	N/A	N/A	N/A	N/A	N/A	5019849
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.00149	N/A	N/A
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	107	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'55'6'-NonaCB-(206)	%	88	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'5'-HeptaCB-(170)	%	136 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'455'66'-NonaCB-(208)	%	118	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'66'-OctaCB-(202)	%	154 Q (2)	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'6'-HeptaCB-(178)	%	78	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'344'55'-HeptaCB-(180)	%	143 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'34'566'-HeptaCB-(188)	%	101	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'44'66'-HexaCB-(155)	%	110	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'466'-PentaCB-(104)	%	89	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'66'-TetraCB-(54)	%	72	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'6'-TriCB-(19)	%	59	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'-DiCB-(4)	%	54	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.
(2) Internal standard recovery is outside method limits. Dilution not needed due to trace levels in the sample.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY569							
Sampling Date		2017/04/26 12:15							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-SMA3-DUNH-COC-170426	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-233'44'55'6-OctaCB-(205)	%	84	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'-HeptaCB-(189)	%	137	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'-PentaCB-(105)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'55'-PentaCB-(111)	%	96	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'55'-HexaCB-(167)	%	91	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2344'5-PentaCB-(114)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'5-PentaCB-(118)	%	95	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2'344'5-PentaCB-(123)	%	94	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2-MonoCB-(1)	%	48	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'55'-HexaCB-(169)	%	45	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'5-PentaCB-(126)	%	85	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'-TetraCB-(77)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'5-TetraCB-(81)	%	96	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'-TriCB-(37)	%	110	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-44'-DiCB-(15)	%	85	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-4-MonoCB-(3)	%	57	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-DecaCB-(209)	%	66	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-HexaCB-(156)+(157)	%	80	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY570							
Sampling Date		2017/04/27 13:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-OYS-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch

PCBs									
2-MonoCB-(1)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
3-MonoCB-(2)	ng/g	0.00092 U	0.00092	0.010	N/A	N/A	N/A	N/A	5019849
4-MonoCB-(3)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
22'-DiCB-(4)	ng/g	0.014 U	0.014	0.010	N/A	N/A	N/A	N/A	5019849
2,3-DiCB-(5)	ng/g	0.022 U	0.022	0.010	N/A	N/A	N/A	N/A	5019849
2,3'-DiCB-(6)	ng/g	0.017 U	0.017	0.010	N/A	N/A	N/A	N/A	5019849
2,4-DiCB-(7)	ng/g	0.018 U	0.018	0.010	N/A	N/A	N/A	N/A	5019849
2,4'-DiCB-(8)	ng/g	0.015 UQ	0.015	0.010	N/A	N/A	N/A	N/A	5019849
2,5-DiCB-(9)	ng/g	0.018 U	0.018	0.010	N/A	N/A	N/A	N/A	5019849
2,6-DiCB-(10)	ng/g	0.014 U	0.014	0.010	N/A	N/A	N/A	N/A	5019849
3,3'-DiCB-(11)	ng/g	0.018 U	0.018	0.010	N/A	N/A	N/A	N/A	5019849
DiCB-(12)+(13)	ng/g	0.019 U	0.019	0.020	N/A	N/A	N/A	N/A	5019849
3,5-DiCB-(14)	ng/g	0.017 U	0.017	0.010	N/A	N/A	N/A	N/A	5019849
4,4'-DiCB-(15)	ng/g	0.031 U	0.031	0.010	N/A	N/A	N/A	N/A	5019849
22'3-TriCB-(16)	ng/g	0.020 U	0.020	0.010	N/A	N/A	N/A	N/A	5019849
22'4-TriCB-(17)	ng/g	0.016 U	0.016	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(18)+(30)	ng/g	0.012 U	0.012	0.020	N/A	N/A	N/A	N/A	5019849
22'6-TriCB-(19)	ng/g	0.011 U	0.011	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(20) + (28)	ng/g	0.0129 J	0.0042	0.020	N/A	N/A	N/A	N/A	5019849
TriCB-(21)+(33)	ng/g	0.0046 U	0.0046	0.020	N/A	N/A	N/A	N/A	5019849
234'-TriCB-(22)	ng/g	0.0046 U	0.0046	0.010	N/A	N/A	N/A	N/A	5019849
235-TriCB-(23)	ng/g	0.0045 U	0.0045	0.010	N/A	N/A	N/A	N/A	5019849
236-TriCB-(24)	ng/g	0.011 U	0.011	0.010	N/A	N/A	N/A	N/A	5019849
23'4-TriCB-(25)	ng/g	0.0043 U	0.0043	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(26)+(29)	ng/g	0.0041 U	0.0041	0.020	N/A	N/A	N/A	N/A	5019849
23'6-TriCB-(27)	ng/g	0.011 U	0.011	0.010	N/A	N/A	N/A	N/A	5019849
24'5-TriCB-(31)	ng/g	0.0076 JQ	0.0040	0.010	N/A	N/A	N/A	N/A	5019849
24'6-TriCB-(32)	ng/g	0.0098 U	0.0098	0.010	N/A	N/A	N/A	N/A	5019849
23'5'-TriCB-(34)	ng/g	0.0042 U	0.0042	0.010	N/A	N/A	N/A	N/A	5019849
33'4-TriCB-(35)	ng/g	0.0044 U	0.0044	0.010	N/A	N/A	N/A	N/A	5019849

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COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-OYS-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'5'-TriCB-(36)	ng/g	0.0037 U	0.0037	0.010	N/A	N/A	N/A	N/A	5019849
344'-TriCB-(37)	ng/g	0.0077 U	0.0077	0.010	N/A	N/A	N/A	N/A	5019849
345'-TriCB-(38)	ng/g	0.0047 U	0.0047	0.010	N/A	N/A	N/A	N/A	5019849
34'5'-TriCB-(39)	ng/g	0.0042 U	0.0042	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(40)+(41)+(71)	ng/g	0.012 J	0.010	0.030	N/A	N/A	N/A	N/A	5019849
22'34'-TetraCB-(42)	ng/g	0.012 U	0.012	0.010	N/A	N/A	N/A	N/A	5019849
22'35'-TetraCB-(43)	ng/g	0.014 U	0.014	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(44)+(47)+(65)	ng/g	0.0354	0.0092	0.030	N/A	N/A	N/A	N/A	5019849
TetraCB-(45)+(51)	ng/g	0.010 UQ	0.010	0.020	N/A	N/A	N/A	N/A	5019849
22'36'-TetraCB-(46)	ng/g	0.013 U	0.013	0.010	N/A	N/A	N/A	N/A	5019849
22'45'-TetraCB-(48)	ng/g	0.010 U	0.010	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(49)+TetraCB-(69)	ng/g	0.019 U (1)	0.019	0.020	N/A	N/A	N/A	N/A	5019849
TetraCB-(50)+(53)	ng/g	0.0097 U	0.0097	0.020	N/A	N/A	N/A	N/A	5019849
22'55'-TetraCB-(52)	ng/g	0.0407 Q	0.0099	0.010	N/A	N/A	N/A	N/A	5019849
22'66'-TetraCB-(54)	ng/g	0.0014 U	0.0014	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-TetraCB-(55)	ng/g	0.0067 U	0.0067	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-Tetra CB(56)	ng/g	0.0075 JQ	0.0065	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(57)	ng/g	0.0057 U	0.0057	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(58)	ng/g	0.0059 U	0.0059	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(59)+(62)+(75)	ng/g	0.0075 U	0.0075	0.030	N/A	N/A	N/A	N/A	5019849
2344'-TetraCB -(60)	ng/g	0.0071 U	0.0071	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.0482	0.0061	0.040	N/A	N/A	N/A	N/A	5019849
234'5'-TetraCB-(63)	ng/g	0.0057 UQ	0.0057	0.010	N/A	N/A	N/A	N/A	5019849
234'6'-TetraCB-(64)	ng/g	0.010 U (1)	0.010	0.010	N/A	N/A	N/A	N/A	5019849
23'44'-TetraCB-(66)	ng/g	0.0226	0.0059	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(67)	ng/g	0.0055 U	0.0055	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(68)	ng/g	0.0052 U	0.0052	0.010	N/A	N/A	N/A	N/A	5019849
23'55'-TetraCB-(72)	ng/g	0.0052 U	0.0052	0.010	N/A	N/A	N/A	N/A	5019849
23'5'6'-TetraCB-(73)	ng/g	0.0072 U	0.0072	0.010	N/A	N/A	N/A	N/A	5019849
33'44'-TetraCB-(77)	ng/g	0.0085 U	0.0085	0.010	N/A	0.000100	0.000000850	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY570							
Sampling Date		2017/04/27 13:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-OYS-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'45'-TetraCB-(78)	ng/g	0.0066 U	0.0066	0.010	N/A	N/A	N/A	N/A	5019849
33'45'-TetraCB(79)	ng/g	0.0057 U	0.0057	0.010	N/A	N/A	N/A	N/A	5019849
33'55'-TetraCB-(80)	ng/g	0.0058 U	0.0058	0.010	N/A	N/A	N/A	N/A	5019849
344'5'-TetraCB-(81)	ng/g	0.0084 U	0.0084	0.010	N/A	0.000300	0.00000252	N/A	5019849
22'33'4'-PentaCB-(82)	ng/g	0.011 UQ	0.011	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(83)+(99)	ng/g	0.0898	0.0096	0.020	N/A	N/A	N/A	N/A	5019849
22'33'6'-PentaCB-(84)	ng/g	0.013	0.010	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(85)+(116)+(117)	ng/g	0.015 U (1)	0.015	0.030	N/A	N/A	N/A	N/A	5019849
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.0512 J	0.0077	0.060	N/A	N/A	N/A	N/A	5019849
PentaCB-(88)+(91)	ng/g	0.0111 J	0.0087	0.020	N/A	N/A	N/A	N/A	5019849
22'346'-PentaCB-(89)	ng/g	0.0093 U	0.0093	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(90)+(101)+(113)	ng/g	0.114	0.0082	0.030	N/A	N/A	N/A	N/A	5019849
22'355'-PentaCB-(92)	ng/g	0.0206 Q	0.0095	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.0086 U	0.0086	0.040	N/A	N/A	N/A	N/A	5019849
22'356'-PentaCB-(94)	ng/g	0.0092 U	0.0092	0.010	N/A	N/A	N/A	N/A	5019849
22'35'6'-PentaCB-(95)	ng/g	0.0543 Q	0.0082	0.010	N/A	N/A	N/A	N/A	5019849
22'366'-PentaCB-(96)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
22'45'6'-PentaCB-(103)	ng/g	0.0073 U	0.0073	0.010	N/A	N/A	N/A	N/A	5019849
22'466'-PentaCB-(104)	ng/g	0.00088 U	0.00088	0.010	N/A	N/A	N/A	N/A	5019849
233'44'-PentaCB-(105)	ng/g	0.0307	0.0057	0.010	N/A	0.0000300	0.000000921	N/A	5019849
233'45'-PentaCB-(106)	ng/g	0.0050 U	0.0050	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(107)	ng/g	0.0091 J	0.0042	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(108)+(124)	ng/g	0.0046 U	0.0046	0.020	N/A	N/A	N/A	N/A	5019849
PentaCB-(110)+(115)	ng/g	0.0954	0.0075	0.020	N/A	N/A	N/A	N/A	5019849
233'55'-PentaCB-(111)	ng/g	0.0067 U	0.0067	0.010	N/A	N/A	N/A	N/A	5019849
233'56'-PentaCB-(112)	ng/g	0.0069 U	0.0069	0.010	N/A	N/A	N/A	N/A	5019849
2344'5'-PentaCB-(114)	ng/g	0.0056 U	0.0056	0.010	N/A	0.0000300	0.000000168	N/A	5019849
23'44'5'-PentaCB-(118)	ng/g	0.0963	0.0056	0.010	N/A	0.0000300	0.00000289	N/A	5019849
23'455'-PentaCB-(120)	ng/g	0.0063 U	0.0063	0.010	N/A	N/A	N/A	N/A	5019849
23'45'6'-PentaCB-(121)	ng/g	0.0066 U	0.0066	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY570							
Sampling Date		2017/04/27 13:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-OYS-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'4'5'-PentaCB-(122)	ng/g	0.0050 U	0.0050	0.010	N/A	N/A	N/A	N/A	5019849
23'44'5'-PentaCB-(123)	ng/g	0.0063 U	0.0063	0.010	N/A	0.0000300	0.000000189	N/A	5019849
33'44'5'-PentaCB-(126)	ng/g	0.0053 U	0.0053	0.010	N/A	0.100	0.000530	N/A	5019849
33'455'-PentaCB-(127)	ng/g	0.0046 U	0.0046	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(128)+(166)	ng/g	0.014 U	0.014	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(129)+(138)+(163)	ng/g	0.18 UQ (1)	0.18	0.030	N/A	N/A	N/A	N/A	5019849
22'33'45'-HexaCB-(130)	ng/g	0.017 U	0.017	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(131)	ng/g	0.020 U	0.020	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(132)	ng/g	0.051	0.018	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'-HexaCB-(133)	ng/g	0.016 U	0.016	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(134)+(143)	ng/g	0.018 U	0.018	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(135)+(151)	ng/g	0.071	0.015	0.020	N/A	N/A	N/A	N/A	5019849
22'33'66'-HexaCB-(136)	ng/g	0.013	0.010	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'-HexaCB-(137)	ng/g	0.016 U	0.016	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(139)+(140)	ng/g	0.015 U	0.015	0.020	N/A	N/A	N/A	N/A	5019849
22'3455'-HexaCB-(141)	ng/g	0.017 U	0.017	0.010	N/A	N/A	N/A	N/A	5019849
22'3456'-HexaCB-(142)	ng/g	0.017 U	0.017	0.010	N/A	N/A	N/A	N/A	5019849
22'345'6'-HexaCB-(144)	ng/g	0.014 U	0.014	0.010	N/A	N/A	N/A	N/A	5019849
22'3466'-HexaCB-(145)	ng/g	0.011 U	0.011	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'-HexaCB-(146)	ng/g	0.049 Q	0.013	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(147)+(149)	ng/g	0.178	0.014	0.020	N/A	N/A	N/A	N/A	5019849
22'34'56'-HexaCB-(148)	ng/g	0.014 U	0.014	0.010	N/A	N/A	N/A	N/A	5019849
22'34'66'-HexaCB-(150)	ng/g	0.010 U	0.010	0.010	N/A	N/A	N/A	N/A	5019849
22'3566'-HexaCB-(152)	ng/g	0.010 U	0.010	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(153)+(168)	ng/g	0.325 B	0.011	0.010	N/A	N/A	N/A	N/A	5019849
22'44'56'-HexaCB-(154)	ng/g	0.012 U	0.012	0.010	N/A	N/A	N/A	N/A	5019849
22'44'66'-HexaCB-(155)	ng/g	0.0088 U	0.0088	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(156)+(157)	ng/g	0.0055 JQ	0.0027	0.020	N/A	0.0000300	0.000000165	N/A	5019849
233'44'6'-HexaCB-(158)	ng/g	0.011 UQ	0.011	0.010	N/A	N/A	N/A	N/A	5019849
233'455'-HexaCB-(159)	ng/g	0.0023 U	0.0023	0.010	N/A	N/A	N/A	N/A	5019849

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Maxxam ID		EIY570							
Sampling Date		2017/04/27 13:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-OYS-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'456-HexaCB-(160)	ng/g	0.012 U	0.012	0.010	N/A	N/A	N/A	N/A	5019849
233'45'6-HexaCB-(161)	ng/g	0.011 U	0.011	0.010	N/A	N/A	N/A	N/A	5019849
233'4'55'-HexaCB-(162)	ng/g	0.0023 U	0.0023	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'6-HexaCB-(164)	ng/g	0.011 U	0.011	0.010	N/A	N/A	N/A	N/A	5019849
233'55'6-HexaCB-(165)	ng/g	0.013 U	0.013	0.010	N/A	N/A	N/A	N/A	5019849
23'44'55'-HexaCB-(167)	ng/g	0.0065 J	0.0026	0.010	N/A	0.0000300	0.000000195	N/A	5019849
33'44'55'-HexaCB-(169)	ng/g	0.0028 U	0.0028	0.010	N/A	0.0300	0.0000840	N/A	5019849
22'33'44'5-HeptaCB-(170)	ng/g	0.0089 UQ	0.0089	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(171)+(173)	ng/g	0.013 U	0.013	0.020	N/A	N/A	N/A	N/A	5019849
22'33'455'-HeptaCB-(172)	ng/g	0.013 U	0.013	0.010	N/A	N/A	N/A	N/A	5019849
22'33'456'-HeptaCB-(174)	ng/g	0.012 U	0.012	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6-HeptaCB-(175)	ng/g	0.011 U	0.011	0.010	N/A	N/A	N/A	N/A	5019849
22'33'466'-HeptaCB-(176)	ng/g	0.0093 U	0.0093	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(177)	ng/g	0.024 Q	0.013	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'6-HeptaCB-(178)	ng/g	0.013 UQ	0.013	0.010	N/A	N/A	N/A	N/A	5019849
22'33'566'-HeptaCB-(179)	ng/g	0.016 U (1)	0.016	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(180)+(193)	ng/g	0.024 U (1)	0.024	0.020	N/A	N/A	N/A	N/A	5019849
22'344'56-HeptaCB-(181)	ng/g	0.013 U	0.013	0.010	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(182)	ng/g	0.012 U	0.012	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'6-HeptaCB-(183)	ng/g	0.019 KQ	0.011	0.010	N/A	N/A	N/A	N/A	5019849
22'344'66'-HeptaCB-(184)	ng/g	0.0084 U	0.0084	0.010	N/A	N/A	N/A	N/A	5019849
22'3455'6-HeptaCB-(185)	ng/g	0.013 U	0.013	0.010	N/A	N/A	N/A	N/A	5019849
22'34566'-HeptaCB-(186)	ng/g	0.0095 U	0.0095	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'6-HeptaCB-(187)	ng/g	0.100 Q	0.012	0.010	N/A	N/A	N/A	N/A	5019849
22'34'566'-HeptaCB-(188)	ng/g	0.0097 U	0.0097	0.010	N/A	N/A	N/A	N/A	5019849
233'44'55'-HeptaCB-(189)	ng/g	0.0044 U	0.0044	0.010	N/A	0.0000300	0.000000132	N/A	5019849
233'44'56-HeptaCB-(190)	ng/g	0.010 U	0.010	0.010	N/A	N/A	N/A	N/A	5019849
233'44'5'6-HeptaCB-(191)	ng/g	0.0092 U	0.0092	0.010	N/A	N/A	N/A	N/A	5019849
233'455'6-HeptaCB-(192)	ng/g	0.010 U	0.010	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'55'-OctaCB-(194)	ng/g	0.0034 U	0.0034	0.010	N/A	N/A	N/A	N/A	5019849

EDL = Estimated Detection Limit

RDL = Reportable Detection Limit

TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,

The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY570							
Sampling Date		2017/04/27 13:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-OYS-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'33'44'56'-OctaCB-(195)	ng/g	0.0035 U	0.0035	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(196)	ng/g	0.015 U	0.015	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'66'-OctaCB-(197)	ng/g	0.010 U	0.010	0.010	N/A	N/A	N/A	N/A	5019849
OctaCB-(198)+(199)	ng/g	0.016 U	0.016	0.020	N/A	N/A	N/A	N/A	5019849
22'33'4566'-OctaCB-(200)	ng/g	0.012 U	0.012	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(201)	ng/g	0.010 U	0.010	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'66'-OctaCB-(202)	ng/g	0.011 U	0.011	0.010	N/A	N/A	N/A	N/A	5019849
22'344'55'6'-OctaCB-(203)	ng/g	0.015 U	0.015	0.010	N/A	N/A	N/A	N/A	5019849
22'344'566'-OctaCB-(204)	ng/g	0.010 U	0.010	0.010	N/A	N/A	N/A	N/A	5019849
233'44'55'6'-OctaCB-(205)	ng/g	0.0028 U	0.0028	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'55'6'-NonaCB-(206)	ng/g	0.0031 U	0.0031	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'566'-NonaCB-(207)	ng/g	0.0025 U	0.0025	0.010	N/A	N/A	N/A	N/A	5019849
22'33'455'66'-NonaCB-(208)	ng/g	0.0031 U	0.0031	0.010	N/A	N/A	N/A	N/A	5019849
DecaCB-(209)	ng/g	0.0044 U	0.0044	0.010	N/A	N/A	N/A	N/A	5019849
Total PCB	ng/g	1.61	N/A	N/A	N/A	N/A	N/A	N/A	5019849
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.000622	N/A	N/A
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	77	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'55'6'-NonaCB-(206)	%	76	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'5'-HeptaCB-(170)	%	130 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'455'66'-NonaCB-(208)	%	120	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'66'-OctaCB-(202)	%	146 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'6'-HeptaCB-(178)	%	85	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'344'55'-HeptaCB-(180)	%	133 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'34'566'-HeptaCB-(188)	%	94	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'44'66'-HexaCB-(155)	%	88	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'466'-PentaCB-(104)	%	69	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'66'-TetraCB-(54)	%	41	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'6'-TriCB-(19)	%	41	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'-DiCB-(4)	%	35	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'6'-OctaCB-(205)	%	94	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

N/A = Not Applicable

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY570							
Sampling Date		2017/04/27 13:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-OYS-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-233'44'55'-HeptaCB-(189)	%	133	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'-PentaCB-(105)	%	107	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'55'-PentaCB-(111)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'55'-HexaCB-(167)	%	91	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2344'5-PentaCB-(114)	%	105	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'5-PentaCB-(118)	%	106	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2'344'5-PentaCB-(123)	%	111	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2-MonoCB-(1)	%	36	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'55'-HexaCB-(169)	%	54	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'5-PentaCB-(126)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'-TetraCB-(77)	%	118	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'5-TetraCB-(81)	%	113	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'-TriCB-(37)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-44'-DiCB-(15)	%	61	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-4-MonoCB-(3)	%	42	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-DecaCB-(209)	%	68	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-HexaCB-(156)+(157)	%	95	N/A	N/A	N/A	N/A	N/A	N/A	5019849

EDL = Estimated Detection Limit
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WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
QC Batch = Quality Control Batch
N/A = Not Applicable

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY571							
Sampling Date		2017/04/27 12:45							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-COC-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch

PCBs									
2-MonoCB-(1)	ng/g	0.00021 J	0.00014	0.010	N/A	N/A	N/A	N/A	5019849
3-MonoCB-(2)	ng/g	0.00047 J	0.00013	0.010	N/A	N/A	N/A	N/A	5019849
4-MonoCB-(3)	ng/g	0.00032 J	0.00014	0.010	N/A	N/A	N/A	N/A	5019849
2,2'-DiCB-(4)	ng/g	0.00048 U	0.00048	0.010	N/A	N/A	N/A	N/A	5019849
2,3-DiCB-(5)	ng/g	0.00030 U	0.00030	0.010	N/A	N/A	N/A	N/A	5019849
2,3'-DiCB-(6)	ng/g	0.00025 U	0.00025	0.010	N/A	N/A	N/A	N/A	5019849
2,4-DiCB-(7)	ng/g	0.00025 U	0.00025	0.010	N/A	N/A	N/A	N/A	5019849
2,4'-DiCB-(8)	ng/g	0.0010 UQ (1)	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
2,5-DiCB-(9)	ng/g	0.00024 U	0.00024	0.010	N/A	N/A	N/A	N/A	5019849
2,6-DiCB-(10)	ng/g	0.00048 U	0.00048	0.010	N/A	N/A	N/A	N/A	5019849
3,3'-DiCB-(11)	ng/g	0.00602 J	0.00025	0.010	N/A	N/A	N/A	N/A	5019849
DiCB-(12)+(13)	ng/g	0.00025 U	0.00025	0.020	N/A	N/A	N/A	N/A	5019849
3,5-DiCB-(14)	ng/g	0.00025 U	0.00025	0.010	N/A	N/A	N/A	N/A	5019849
4,4'-DiCB-(15)	ng/g	0.00096 U (1)	0.00096	0.010	N/A	N/A	N/A	N/A	5019849
2,2',3-TriCB-(16)	ng/g	0.00093 U	0.00093	0.010	N/A	N/A	N/A	N/A	5019849
2,2',4-TriCB-(17)	ng/g	0.00082 U	0.00082	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(18)+(30)	ng/g	0.00171 J	0.00066	0.020	N/A	N/A	N/A	N/A	5019849
2,2',6-TriCB-(19)	ng/g	0.00065 U	0.00065	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(20) + (28)	ng/g	0.00433 J	0.00024	0.020	N/A	N/A	N/A	N/A	5019849
TriCB-(21)+(33)	ng/g	0.00141 J	0.00023	0.020	N/A	N/A	N/A	N/A	5019849
2,3,4'-TriCB-(22)	ng/g	0.00121 J	0.00025	0.010	N/A	N/A	N/A	N/A	5019849
2,3,5-TriCB-(23)	ng/g	0.00025 U	0.00025	0.010	N/A	N/A	N/A	N/A	5019849
2,3,6-TriCB-(24)	ng/g	0.00062 U	0.00062	0.010	N/A	N/A	N/A	N/A	5019849
2,3',4-TriCB-(25)	ng/g	0.00035 J	0.00024	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(26)+(29)	ng/g	0.00057 U (1)	0.00057	0.020	N/A	N/A	N/A	N/A	5019849
2,3',6-TriCB-(27)	ng/g	0.00056 U	0.00056	0.010	N/A	N/A	N/A	N/A	5019849
2,4',5-TriCB-(31)	ng/g	0.0021 UQ (1)	0.0021	0.010	N/A	N/A	N/A	N/A	5019849
2,4',6-TriCB-(32)	ng/g	0.00069 J	0.00052	0.010	N/A	N/A	N/A	N/A	5019849
2,3',5'-TriCB-(34)	ng/g	0.00025 U	0.00025	0.010	N/A	N/A	N/A	N/A	5019849

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RDL = Reportable Detection Limit
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WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY571							
Sampling Date		2017/04/27 12:45							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-COC-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'4'-TriCB-(35)	ng/g	0.00024 U	0.00024	0.010	N/A	N/A	N/A	N/A	5019849
33'5'-TriCB-(36)	ng/g	0.00021 U	0.00021	0.010	N/A	N/A	N/A	N/A	5019849
344'-TriCB-(37)	ng/g	0.00104 J	0.00035	0.010	N/A	N/A	N/A	N/A	5019849
345'-TriCB-(38)	ng/g	0.00023 U	0.00023	0.010	N/A	N/A	N/A	N/A	5019849
34'5'-TriCB-(39)	ng/g	0.00023 U	0.00023	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(40)+(41)+(71)	ng/g	0.00282 J	0.00034	0.030	N/A	N/A	N/A	N/A	5019849
22'34'-TetraCB-(42)	ng/g	0.0012 U (1)	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
22'35'-TetraCB-(43)	ng/g	0.00048 U	0.00048	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(44)+(47)+(65)	ng/g	0.0113 J	0.00032	0.030	N/A	N/A	N/A	N/A	5019849
TetraCB-(45)+(51)	ng/g	0.00133 JQ	0.00035	0.020	N/A	N/A	N/A	N/A	5019849
22'36'-TetraCB-(46)	ng/g	0.00042 U	0.00042	0.010	N/A	N/A	N/A	N/A	5019849
22'45'-TetraCB-(48)	ng/g	0.00091 J	0.00035	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(49)+TetraCB-(69)	ng/g	0.00334 J	0.00031	0.020	N/A	N/A	N/A	N/A	5019849
TetraCB-(50)+(53)	ng/g	0.00047 U (1)	0.00047	0.020	N/A	N/A	N/A	N/A	5019849
22'55'-TetraCB-(52)	ng/g	0.00783 JQ	0.00033	0.010	N/A	N/A	N/A	N/A	5019849
22'66'-TetraCB-(54)	ng/g	0.00027 U	0.00027	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-TetraCB-(55)	ng/g	0.00018 U	0.00018	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-Tetra CB(56)	ng/g	0.00147 JQ	0.00017	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(57)	ng/g	0.00016 U	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(58)	ng/g	0.00017 U	0.00017	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(59)+(62)+(75)	ng/g	0.00049 J	0.00026	0.030	N/A	N/A	N/A	N/A	5019849
2344'-TetraCB -(60)	ng/g	0.00095 J	0.00018	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.00721 J	0.00017	0.040	N/A	N/A	N/A	N/A	5019849
234'5'-TetraCB-(63)	ng/g	0.00020 UQ (1)	0.00020	0.010	N/A	N/A	N/A	N/A	5019849
234'6'-TetraCB-(64)	ng/g	0.00277 J	0.00028	0.010	N/A	N/A	N/A	N/A	5019849
23'44'-TetraCB-(66)	ng/g	0.00416 J	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(67)	ng/g	0.00016 U	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(68)	ng/g	0.00196 J	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
23'55'-TetraCB-(72)	ng/g	0.00016 U	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
23'5'6'-TetraCB-(73)	ng/g	0.00024 U	0.00024	0.010	N/A	N/A	N/A	N/A	5019849

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QC Batch = Quality Control Batch

N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY571							
Sampling Date		2017/04/27 12:45							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-COC-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'44'-TetraCB-(77)	ng/g	0.00044 U (1)	0.00044	0.010	N/A	0.000100	0.0000000440	N/A	5019849
33'45'-TetraCB-(78)	ng/g	0.00016 U	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
33'45'-TetraCB(79)	ng/g	0.00014 U	0.00014	0.010	N/A	N/A	N/A	N/A	5019849
33'55'-TetraCB-(80)	ng/g	0.00015 U	0.00015	0.010	N/A	N/A	N/A	N/A	5019849
344'5'-TetraCB-(81)	ng/g	0.00022 U	0.00022	0.010	N/A	0.000300	0.0000000660	N/A	5019849
22'33'4'-PentaCB-(82)	ng/g	0.00096 JQ	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(83)+(99)	ng/g	0.0107 J	0.00014	0.020	N/A	N/A	N/A	N/A	5019849
22'33'6'-PentaCB-(84)	ng/g	0.00233 J	0.00017	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(85)+(116)+(117)	ng/g	0.0025 U (1)	0.0025	0.030	N/A	N/A	N/A	N/A	5019849
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.00615 J	0.00012	0.060	N/A	N/A	N/A	N/A	5019849
PentaCB-(88)+(91)	ng/g	0.00137 J	0.00015	0.020	N/A	N/A	N/A	N/A	5019849
22'346'-PentaCB-(89)	ng/g	0.00015 U	0.00015	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(90)+(101)+(113)	ng/g	0.0131 J	0.00012	0.030	N/A	N/A	N/A	N/A	5019849
22'355'-PentaCB-(92)	ng/g	0.0024 UQ (1)	0.0024	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.00054 J	0.00015	0.040	N/A	N/A	N/A	N/A	5019849
22'356'-PentaCB-(94)	ng/g	0.00016 U	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
22'35'6'-PentaCB-(95)	ng/g	0.0065 UQ (1)	0.0065	0.010	N/A	N/A	N/A	N/A	5019849
22'366'-PentaCB-(96)	ng/g	0.00020 U	0.00020	0.010	N/A	N/A	N/A	N/A	5019849
22'45'6'-PentaCB-(103)	ng/g	0.00013 U (1)	0.00013	0.010	N/A	N/A	N/A	N/A	5019849
22'466'-PentaCB-(104)	ng/g	0.00013 U	0.00013	0.010	N/A	N/A	N/A	N/A	5019849
233'44'-PentaCB-(105)	ng/g	0.00427 J	0.00046	0.010	N/A	0.0000300	0.000000128	N/A	5019849
233'45'-PentaCB-(106)	ng/g	0.00041 U	0.00041	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(107)	ng/g	0.0012 U (1)	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(108)+(124)	ng/g	0.00047 J	0.00039	0.020	N/A	N/A	N/A	N/A	5019849
PentaCB-(110)+(115)	ng/g	0.011 U (1)	0.011	0.020	N/A	N/A	N/A	N/A	5019849
233'55'-PentaCB-(111)	ng/g	0.00011 U	0.00011	0.010	N/A	N/A	N/A	N/A	5019849
233'56'-PentaCB-(112)	ng/g	0.00012 U	0.00012	0.010	N/A	N/A	N/A	N/A	5019849
2344'5'-PentaCB-(114)	ng/g	0.00046 U	0.00046	0.010	N/A	0.0000300	0.0000000138	N/A	5019849
23'44'5'-PentaCB-(118)	ng/g	0.0111	0.00046	0.010	N/A	0.0000300	0.0000000333	N/A	5019849
23'455'-PentaCB-(120)	ng/g	0.000125 J	0.000099	0.010	N/A	N/A	N/A	N/A	5019849

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The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY571							
Sampling Date		2017/04/27 12:45							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-COC-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'45'6'-PentaCB-(121)	ng/g	0.00011 U	0.00011	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(122)	ng/g	0.00041 U	0.00041	0.010	N/A	N/A	N/A	N/A	5019849
23'44'5'-PentaCB-(123)	ng/g	0.00051 U	0.00051	0.010	N/A	0.0000300	0.0000000153	N/A	5019849
33'44'5'-PentaCB-(126)	ng/g	0.00043 U	0.00043	0.010	N/A	0.100	0.0000430	N/A	5019849
33'45'5'-PentaCB-(127)	ng/g	0.00036 U	0.00036	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(128)+(166)	ng/g	0.00449 J	0.00038	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(129)+(138)+(163)	ng/g	0.0365 Q	0.00040	0.030	N/A	N/A	N/A	N/A	5019849
22'33'45'-HexaCB-(130)	ng/g	0.00241 J	0.00048	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(131)	ng/g	0.00054 U	0.00054	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(132)	ng/g	0.00667 J	0.00049	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'-HexaCB-(133)	ng/g	0.00068 U (1)	0.00068	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(134)+(143)	ng/g	0.0012 U (1)	0.0012	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(135)+(151)	ng/g	0.00936 J	0.00034	0.020	N/A	N/A	N/A	N/A	5019849
22'33'66'-HexaCB-(136)	ng/g	0.00243 J	0.00025	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'-HexaCB-(137)	ng/g	0.00049 U	0.00049	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(139)+(140)	ng/g	0.00064 U (1)	0.00064	0.020	N/A	N/A	N/A	N/A	5019849
22'3455'-HexaCB-(141)	ng/g	0.00256 J	0.00046	0.010	N/A	N/A	N/A	N/A	5019849
22'3456'-HexaCB-(142)	ng/g	0.00048 U	0.00048	0.010	N/A	N/A	N/A	N/A	5019849
22'345'6'-HexaCB-(144)	ng/g	0.00110 J	0.00032	0.010	N/A	N/A	N/A	N/A	5019849
22'3466'-HexaCB-(145)	ng/g	0.00027 U	0.00027	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'-HexaCB-(146)	ng/g	0.00642 JQ	0.00038	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(147)+(149)	ng/g	0.0237	0.00043	0.020	N/A	N/A	N/A	N/A	5019849
22'34'56'-HexaCB-(148)	ng/g	0.00032 U	0.00032	0.010	N/A	N/A	N/A	N/A	5019849
22'34'66'-HexaCB-(150)	ng/g	0.00027 U	0.00027	0.010	N/A	N/A	N/A	N/A	5019849
22'3566'-HexaCB-(152)	ng/g	0.00023 U	0.00023	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(153)+(168)	ng/g	0.0368 B	0.00034	0.010	N/A	N/A	N/A	N/A	5019849
22'44'56'-HexaCB-(154)	ng/g	0.00079 U (1)	0.00079	0.010	N/A	N/A	N/A	N/A	5019849
22'44'66'-HexaCB-(155)	ng/g	0.00018 U	0.00018	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(156)+(157)	ng/g	0.00155 JQ	0.00019	0.020	N/A	0.0000300	0.0000000465	N/A	5019849
233'44'6'-HexaCB-(158)	ng/g	0.0021 UQ (1)	0.0021	0.010	N/A	N/A	N/A	N/A	5019849

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COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-COC-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'455'-HexaCB-(159)	ng/g	0.00017 U	0.00017	0.010	N/A	N/A	N/A	N/A	5019849
233'456'-HexaCB-(160)	ng/g	0.00036 U	0.00036	0.010	N/A	N/A	N/A	N/A	5019849
233'45'6'-HexaCB-(161)	ng/g	0.00033 U	0.00033	0.010	N/A	N/A	N/A	N/A	5019849
233'4'55'-HexaCB-(162)	ng/g	0.00017 U	0.00017	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'6'-HexaCB-(164)	ng/g	0.00262 J	0.00031	0.010	N/A	N/A	N/A	N/A	5019849
233'55'6'-HexaCB-(165)	ng/g	0.00035 U	0.00035	0.010	N/A	N/A	N/A	N/A	5019849
23'44'55'-HexaCB-(167)	ng/g	0.00072 U (1)	0.00072	0.010	N/A	0.0000300	0.0000000216	N/A	5019849
33'44'55'-HexaCB-(169)	ng/g	0.00019 U	0.00019	0.010	N/A	0.0300	0.00000570	N/A	5019849
22'33'44'5'-HeptaCB-(170)	ng/g	0.00310 JQ	0.00037	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(171)+(173)	ng/g	0.0014 U (1)	0.0014	0.020	N/A	N/A	N/A	N/A	5019849
22'33'455'-HeptaCB-(172)	ng/g	0.00048 U	0.00048	0.010	N/A	N/A	N/A	N/A	5019849
22'33'456'-HeptaCB-(174)	ng/g	0.00440 J	0.00048	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(175)	ng/g	0.00045 U (1)	0.00045	0.010	N/A	N/A	N/A	N/A	5019849
22'33'466'-HeptaCB-(176)	ng/g	0.00061 U (1)	0.00061	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(177)	ng/g	0.0044 UQ (1)	0.0044	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'6'-HeptaCB-(178)	ng/g	0.00272 JQ	0.00032	0.010	N/A	N/A	N/A	N/A	5019849
22'33'566'-HeptaCB-(179)	ng/g	0.00290 J	0.00022	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(180)+(193)	ng/g	0.00717 J	0.00037	0.020	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(181)	ng/g	0.00048 U	0.00048	0.010	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(182)	ng/g	0.00031 U	0.00031	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'6'-HeptaCB-(183)	ng/g	0.00384 JQ	0.00041	0.010	N/A	N/A	N/A	N/A	5019849
22'344'66'-HeptaCB-(184)	ng/g	0.00023 U	0.00023	0.010	N/A	N/A	N/A	N/A	5019849
22'3455'6'-HeptaCB-(185)	ng/g	0.00053 U	0.00053	0.010	N/A	N/A	N/A	N/A	5019849
22'34566'-HeptaCB-(186)	ng/g	0.00025 U	0.00025	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'6'-HeptaCB-(187)	ng/g	0.0114 Q	0.00030	0.010	N/A	N/A	N/A	N/A	5019849
22'34'566'-HeptaCB-(188)	ng/g	0.00023 U	0.00023	0.010	N/A	N/A	N/A	N/A	5019849
233'44'55'-HeptaCB-(189)	ng/g	0.00062 U	0.00062	0.010	N/A	0.0000300	0.0000000186	N/A	5019849
233'44'56'-HeptaCB-(190)	ng/g	0.00060 J	0.00035	0.010	N/A	N/A	N/A	N/A	5019849
233'44'5'6'-HeptaCB-(191)	ng/g	0.00035 U	0.00035	0.010	N/A	N/A	N/A	N/A	5019849
233'455'6'-HeptaCB-(192)	ng/g	0.00039 U	0.00039	0.010	N/A	N/A	N/A	N/A	5019849

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COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-COC-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'33'44'55'-OctaCB-(194)	ng/g	0.00040 U (1)	0.00040	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(195)	ng/g	0.00026 U (2)	0.00026	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(196)	ng/g	0.00043 U (1)	0.00043	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'66'-OctaCB-(197)	ng/g	0.00010 U (2)	0.00010	0.050	N/A	N/A	N/A	N/A	5019849
OctaCB-(198)+(199)	ng/g	0.00400 J (2)	0.00014	0.10	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(200)	ng/g	0.00011 U (2)	0.00011	0.050	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(201)	ng/g	0.00010 U (2)	0.00010	0.050	N/A	N/A	N/A	N/A	5019849
22'33'55'66'-OctaCB-(202)	ng/g	0.00053 U (1)	0.00053	0.050	N/A	N/A	N/A	N/A	5019849
22'344'55'6'-OctaCB-(203)	ng/g	0.00057 U (1)	0.00057	0.050	N/A	N/A	N/A	N/A	5019849
22'344'566'-OctaCB-(204)	ng/g	0.00010 U (2)	0.00010	0.050	N/A	N/A	N/A	N/A	5019849
233'44'55'6'-OctaCB-(205)	ng/g	0.00024 U (2)	0.00024	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'55'6'-NonaCB-(206)	ng/g	0.00383 J	0.00091	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'566'-NonaCB-(207)	ng/g	0.00076 U	0.00076	0.010	N/A	N/A	N/A	N/A	5019849
22'33'455'66'-NonaCB-(208)	ng/g	0.00290 J	0.00089	0.010	N/A	N/A	N/A	N/A	5019849
DecaCB-(209)	ng/g	0.00521 J	0.00060	0.010	N/A	N/A	N/A	N/A	5019849
Total PCB	ng/g	0.304	N/A	N/A	N/A	N/A	N/A	N/A	5019849
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.0000494	N/A	N/A
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	74	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'55'6'-NonaCB-(206)	%	89	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'5'-HeptaCB-(170)	%	137 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'455'66'-NonaCB-(208)	%	118	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'66'-OctaCB-(202)	%	98 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'6'-HeptaCB-(178)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'344'55'-HeptaCB-(180)	%	145 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'34'566'-HeptaCB-(188)	%	94	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'44'66'-HexaCB-(155)	%	95	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'466'-PentaCB-(104)	%	85	N/A	N/A	N/A	N/A	N/A	N/A	5019849
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C13-22'66'-TetraCB-(54)	%	62	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'6-TriCB-(19)	%	55	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'-DiCB-(4)	%	46	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'6-OctaCB-(205)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'-HeptaCB-(189)	%	110	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'-PentaCB-(105)	%	102	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'55'-PentaCB-(111)	%	94	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'55'-HexaCB-(167)	%	69	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2344'5-PentaCB-(114)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'5-PentaCB-(118)	%	102	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2'344'5-PentaCB-(123)	%	102	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2-MonoCB-(1)	%	43	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'55'-HexaCB-(169)	%	31	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'5-PentaCB-(126)	%	77	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'-TetraCB-(77)	%	96	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'5-TetraCB-(81)	%	95	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'-TriCB-(37)	%	83	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-44'-DiCB-(15)	%	63	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-4-MonoCB-(3)	%	43	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-DecaCB-(209)	%	85	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-HexaCB-(156)+(157)	%	65	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY572							
Sampling Date		2017/04/27 13:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-LTN-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch

PCBs									
2-MonoCB-(1)	ng/g	0.00022 U	0.00022	0.010	N/A	N/A	N/A	N/A	5019849
3-MonoCB-(2)	ng/g	0.00020 U	0.00020	0.010	N/A	N/A	N/A	N/A	5019849
4-MonoCB-(3)	ng/g	0.00059 U (1)	0.00059	0.010	N/A	N/A	N/A	N/A	5019849
22'-DiCB-(4)	ng/g	0.0027 U	0.0027	0.010	N/A	N/A	N/A	N/A	5019849
2,3-DiCB-(5)	ng/g	0.00033 U	0.00033	0.010	N/A	N/A	N/A	N/A	5019849
2,3'-DiCB-(6)	ng/g	0.00028 U	0.00028	0.010	N/A	N/A	N/A	N/A	5019849
2,4-DiCB-(7)	ng/g	0.00028 U	0.00028	0.010	N/A	N/A	N/A	N/A	5019849
2,4'-DiCB-(8)	ng/g	0.00108 JQ	0.00023	0.010	N/A	N/A	N/A	N/A	5019849
2,5-DiCB-(9)	ng/g	0.00027 U	0.00027	0.010	N/A	N/A	N/A	N/A	5019849
2,6-DiCB-(10)	ng/g	0.0027 U	0.0027	0.010	N/A	N/A	N/A	N/A	5019849
3,3'-DiCB-(11)	ng/g	0.0109	0.00027	0.010	N/A	N/A	N/A	N/A	5019849
DiCB-(12)+(13)	ng/g	0.00028 U	0.00028	0.020	N/A	N/A	N/A	N/A	5019849
3,5-DiCB-(14)	ng/g	0.00028 U	0.00028	0.010	N/A	N/A	N/A	N/A	5019849
4,4'-DiCB-(15)	ng/g	0.0011 U (1)	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
22'3-TriCB-(16)	ng/g	0.00074 U (1)	0.00074	0.010	N/A	N/A	N/A	N/A	5019849
22'4-TriCB-(17)	ng/g	0.00096 J	0.00054	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(18)+(30)	ng/g	0.0033 U (1)	0.0033	0.020	N/A	N/A	N/A	N/A	5019849
22'6-TriCB-(19)	ng/g	0.00042 U	0.00042	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(20) + (28)	ng/g	0.00413 J	0.00018	0.020	N/A	N/A	N/A	N/A	5019849
TriCB-(21)+(33)	ng/g	0.00204 J	0.00018	0.020	N/A	N/A	N/A	N/A	5019849
234'-TriCB-(22)	ng/g	0.00078 U (1)	0.00078	0.010	N/A	N/A	N/A	N/A	5019849
235-TriCB-(23)	ng/g	0.00019 U	0.00019	0.010	N/A	N/A	N/A	N/A	5019849
236-TriCB-(24)	ng/g	0.00040 U	0.00040	0.010	N/A	N/A	N/A	N/A	5019849
23'4-TriCB-(25)	ng/g	0.00086 J	0.00018	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(26)+(29)	ng/g	0.00094 J	0.00018	0.020	N/A	N/A	N/A	N/A	5019849
23'6-TriCB-(27)	ng/g	0.00037 U	0.00037	0.010	N/A	N/A	N/A	N/A	5019849
24'5-TriCB-(31)	ng/g	0.00336 JQ	0.00017	0.010	N/A	N/A	N/A	N/A	5019849
24'6-TriCB-(32)	ng/g	0.00041 U (1)	0.00041	0.010	N/A	N/A	N/A	N/A	5019849
23'5'-TriCB-(34)	ng/g	0.00018 U	0.00018	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY572							
Sampling Date		2017/04/27 13:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-LTN-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'4'-TriCB-(35)	ng/g	0.00039 J	0.00018	0.010	N/A	N/A	N/A	N/A	5019849
33'5'-TriCB-(36)	ng/g	0.00029 U (1)	0.00029	0.010	N/A	N/A	N/A	N/A	5019849
344'-TriCB-(37)	ng/g	0.00077 U (1)	0.00077	0.010	N/A	N/A	N/A	N/A	5019849
345'-TriCB-(38)	ng/g	0.00045 U (1)	0.00045	0.010	N/A	N/A	N/A	N/A	5019849
34'5'-TriCB-(39)	ng/g	0.00017 U	0.00017	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(40)+(41)+(71)	ng/g	0.00223 J	0.00020	0.030	N/A	N/A	N/A	N/A	5019849
22'34'-TetraCB-(42)	ng/g	0.00071 U (1)	0.00071	0.010	N/A	N/A	N/A	N/A	5019849
22'35'-TetraCB-(43)	ng/g	0.00028 U	0.00028	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(44)+(47)+(65)	ng/g	0.0143 J	0.00019	0.030	N/A	N/A	N/A	N/A	5019849
TetraCB-(45)+(51)	ng/g	0.00165 JQ	0.00021	0.020	N/A	N/A	N/A	N/A	5019849
22'36'-TetraCB-(46)	ng/g	0.00025 J	0.00025	0.010	N/A	N/A	N/A	N/A	5019849
22'45'-TetraCB-(48)	ng/g	0.00278 J	0.00021	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(49)+TetraCB-(69)	ng/g	0.00453 J	0.00018	0.020	N/A	N/A	N/A	N/A	5019849
TetraCB-(50)+(53)	ng/g	0.00040 J	0.00020	0.020	N/A	N/A	N/A	N/A	5019849
22'55'-TetraCB-(52)	ng/g	0.0124 Q	0.00019	0.010	N/A	N/A	N/A	N/A	5019849
22'66'-TetraCB-(54)	ng/g	0.00040 U	0.00040	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-TetraCB-(55)	ng/g	0.00016 U	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-Tetra CB(56)	ng/g	0.00075 JQ	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(57)	ng/g	0.00015 U	0.00015	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(58)	ng/g	0.00016 U	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(59)+(62)+(75)	ng/g	0.00021 U (1)	0.00021	0.030	N/A	N/A	N/A	N/A	5019849
2344'-TetraCB -(60)	ng/g	0.00065 U (1)	0.00065	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.00750 J	0.00016	0.040	N/A	N/A	N/A	N/A	5019849
234'5'-TetraCB-(63)	ng/g	0.00025 JQ	0.00015	0.010	N/A	N/A	N/A	N/A	5019849
234'6'-TetraCB-(64)	ng/g	0.00191 J	0.00017	0.010	N/A	N/A	N/A	N/A	5019849
23'44'-TetraCB-(66)	ng/g	0.0028 U (1)	0.0028	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(67)	ng/g	0.00042 J	0.00015	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(68)	ng/g	0.00272 J	0.00015	0.010	N/A	N/A	N/A	N/A	5019849
23'55'-TetraCB-(72)	ng/g	0.00015 U	0.00015	0.010	N/A	N/A	N/A	N/A	5019849
23'5'6'-TetraCB-(73)	ng/g	0.00014 U	0.00014	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY572							
Sampling Date		2017/04/27 13:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-LTN-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'44'-TetraCB-(77)	ng/g	0.00024 J	0.00020	0.010	N/A	0.000100	0.0000000240	N/A	5019849
33'45'-TetraCB-(78)	ng/g	0.00015 U	0.00015	0.010	N/A	N/A	N/A	N/A	5019849
33'45'-TetraCB-(79)	ng/g	0.00013 U	0.00013	0.010	N/A	N/A	N/A	N/A	5019849
33'55'-TetraCB-(80)	ng/g	0.00014 U	0.00014	0.010	N/A	N/A	N/A	N/A	5019849
344'5'-TetraCB-(81)	ng/g	0.00020 U	0.00020	0.010	N/A	0.000300	0.0000000600	N/A	5019849
22'33'4'-PentaCB-(82)	ng/g	0.00063 JQ	0.00044	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(83)+(99)	ng/g	0.00828 J	0.00040	0.020	N/A	N/A	N/A	N/A	5019849
22'33'6'-PentaCB-(84)	ng/g	0.00137 J	0.00047	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(85)+(116)+(117)	ng/g	0.00182 J	0.00033	0.030	N/A	N/A	N/A	N/A	5019849
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.00562 J	0.00035	0.060	N/A	N/A	N/A	N/A	5019849
PentaCB-(88)+(91)	ng/g	0.00092 J	0.00041	0.020	N/A	N/A	N/A	N/A	5019849
22'346'-PentaCB-(89)	ng/g	0.00043 U	0.00043	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(90)+(101)+(113)	ng/g	0.0246 J	0.00035	0.030	N/A	N/A	N/A	N/A	5019849
22'355'-PentaCB-(92)	ng/g	0.00312 JQ	0.00041	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.00050 J	0.00042	0.040	N/A	N/A	N/A	N/A	5019849
22'356'-PentaCB-(94)	ng/g	0.00045 U	0.00045	0.010	N/A	N/A	N/A	N/A	5019849
22'35'6'-PentaCB-(95)	ng/g	0.00537 JQ	0.00038	0.010	N/A	N/A	N/A	N/A	5019849
22'366'-PentaCB-(96)	ng/g	0.00054 U	0.00054	0.010	N/A	N/A	N/A	N/A	5019849
22'45'6'-PentaCB-(103)	ng/g	0.00037 U	0.00037	0.010	N/A	N/A	N/A	N/A	5019849
22'466'-PentaCB-(104)	ng/g	0.00037 U	0.00037	0.010	N/A	N/A	N/A	N/A	5019849
233'44'-PentaCB-(105)	ng/g	0.00295 J	0.00014	0.010	N/A	0.0000300	0.0000000885	N/A	5019849
233'45'-PentaCB-(106)	ng/g	0.00012 U	0.00012	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(107)	ng/g	0.00085 J	0.00010	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(108)+(124)	ng/g	0.00026 U (1)	0.00026	0.020	N/A	N/A	N/A	N/A	5019849
PentaCB-(110)+(115)	ng/g	0.00921 J	0.00032	0.020	N/A	N/A	N/A	N/A	5019849
233'55'-PentaCB-(111)	ng/g	0.00030 U	0.00030	0.010	N/A	N/A	N/A	N/A	5019849
233'56'-PentaCB-(112)	ng/g	0.00032 U	0.00032	0.010	N/A	N/A	N/A	N/A	5019849
2344'5'-PentaCB-(114)	ng/g	0.00018 J	0.00014	0.010	N/A	0.0000300	0.00000000540	N/A	5019849
23'44'5'-PentaCB-(118)	ng/g	0.00837 J	0.00014	0.010	N/A	0.0000300	0.000000251	N/A	5019849
23'455'-PentaCB-(120)	ng/g	0.00028 U	0.00028	0.010	N/A	N/A	N/A	N/A	5019849

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Maxxam ID		EIY572							
Sampling Date		2017/04/27 13:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-LTN-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'45'6'-PentaCB-(121)	ng/g	0.00031 U	0.00031	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(122)	ng/g	0.00012 U	0.00012	0.010	N/A	N/A	N/A	N/A	5019849
23'44'5'-PentaCB-(123)	ng/g	0.00015 U	0.00015	0.010	N/A	0.0000300	0.00000000450	N/A	5019849
33'44'5'-PentaCB-(126)	ng/g	0.00013 U	0.00013	0.010	N/A	0.100	0.0000130	N/A	5019849
33'455'-PentaCB-(127)	ng/g	0.00011 U	0.00011	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(128)+(166)	ng/g	0.00270 J	0.00046	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(129)+(138)+(163)	ng/g	0.0314 Q	0.00049	0.030	N/A	N/A	N/A	N/A	5019849
22'33'45'-HexaCB-(130)	ng/g	0.00180 J	0.00058	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(131)	ng/g	0.00066 U	0.00066	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(132)	ng/g	0.00531 J	0.00060	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'-HexaCB-(133)	ng/g	0.00127 J	0.00054	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(134)+(143)	ng/g	0.00085 J	0.00060	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(135)+(151)	ng/g	0.00876 J	0.00034	0.020	N/A	N/A	N/A	N/A	5019849
22'33'66'-HexaCB-(136)	ng/g	0.00229 J	0.00025	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'-HexaCB-(137)	ng/g	0.0010 U (1)	0.0010	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(139)+(140)	ng/g	0.00052 U (1)	0.00052	0.020	N/A	N/A	N/A	N/A	5019849
22'3455'-HexaCB-(141)	ng/g	0.0017 U (1)	0.0017	0.010	N/A	N/A	N/A	N/A	5019849
22'3456'-HexaCB-(142)	ng/g	0.00059 U	0.00059	0.010	N/A	N/A	N/A	N/A	5019849
22'345'6'-HexaCB-(144)	ng/g	0.00102 J	0.00032	0.010	N/A	N/A	N/A	N/A	5019849
22'3466'-HexaCB-(145)	ng/g	0.00027 U	0.00027	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'-HexaCB-(146)	ng/g	0.0057 UQ (1)	0.0057	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(147)+(149)	ng/g	0.0185 J	0.00052	0.020	N/A	N/A	N/A	N/A	5019849
22'34'56'-HexaCB-(148)	ng/g	0.00033 U	0.00033	0.010	N/A	N/A	N/A	N/A	5019849
22'34'66'-HexaCB-(150)	ng/g	0.00027 U	0.00027	0.010	N/A	N/A	N/A	N/A	5019849
22'3566'-HexaCB-(152)	ng/g	0.00023 U	0.00023	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(153)+(168)	ng/g	0.0371 B	0.00042	0.010	N/A	N/A	N/A	N/A	5019849
22'44'56'-HexaCB-(154)	ng/g	0.00095 J	0.00029	0.010	N/A	N/A	N/A	N/A	5019849
22'44'66'-HexaCB-(155)	ng/g	0.00018 U	0.00018	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(156)+(157)	ng/g	0.00129 JQ	0.00036	0.020	N/A	0.0000300	0.0000000387	N/A	5019849
233'44'6'-HexaCB-(158)	ng/g	0.0015 UQ (1)	0.0015	0.010	N/A	N/A	N/A	N/A	5019849

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Maxxam ID		EIY572							
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COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-LTN-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'455'-HexaCB-(159)	ng/g	0.00031 U	0.00031	0.010	N/A	N/A	N/A	N/A	5019849
233'456'-HexaCB-(160)	ng/g	0.00044 U	0.00044	0.010	N/A	N/A	N/A	N/A	5019849
233'45'6'-HexaCB-(161)	ng/g	0.00040 U	0.00040	0.010	N/A	N/A	N/A	N/A	5019849
233'4'55'-HexaCB-(162)	ng/g	0.00031 U	0.00031	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'6'-HexaCB-(164)	ng/g	0.0011 U (1)	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
233'55'6'-HexaCB-(165)	ng/g	0.00043 U	0.00043	0.010	N/A	N/A	N/A	N/A	5019849
23'44'55'-HexaCB-(167)	ng/g	0.00062 J	0.00034	0.010	N/A	0.0000300	0.0000000186	N/A	5019849
33'44'55'-HexaCB-(169)	ng/g	0.00036 U	0.00036	0.010	N/A	0.0300	0.0000108	N/A	5019849
22'33'44'5'-HeptaCB-(170)	ng/g	0.0032 UQ (1)	0.0032	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(171)+(173)	ng/g	0.00153 J	0.00077	0.020	N/A	N/A	N/A	N/A	5019849
22'33'455'-HeptaCB-(172)	ng/g	0.00089 U (1)	0.00089	0.010	N/A	N/A	N/A	N/A	5019849
22'33'456'-HeptaCB-(174)	ng/g	0.00363 J	0.00074	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(175)	ng/g	0.00022 U	0.00022	0.010	N/A	N/A	N/A	N/A	5019849
22'33'466'-HeptaCB-(176)	ng/g	0.00075 J	0.00017	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(177)	ng/g	0.0029 UQ (1)	0.0029	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'6'-HeptaCB-(178)	ng/g	0.00341 JQ	0.00023	0.010	N/A	N/A	N/A	N/A	5019849
22'33'566'-HeptaCB-(179)	ng/g	0.00245 J	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(180)+(193)	ng/g	0.00892 J	0.00058	0.020	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(181)	ng/g	0.00075 U	0.00075	0.010	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(182)	ng/g	0.00022 U	0.00022	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'6'-HeptaCB-(183)	ng/g	0.00398 JQ	0.00063	0.010	N/A	N/A	N/A	N/A	5019849
22'344'66'-HeptaCB-(184)	ng/g	0.00016 U	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
22'3455'6'-HeptaCB-(185)	ng/g	0.00082 U	0.00082	0.010	N/A	N/A	N/A	N/A	5019849
22'34566'-HeptaCB-(186)	ng/g	0.00018 U	0.00018	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'6'-HeptaCB-(187)	ng/g	0.0164 Q	0.00021	0.010	N/A	N/A	N/A	N/A	5019849
22'34'566'-HeptaCB-(188)	ng/g	0.00016 U	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
233'44'55'-HeptaCB-(189)	ng/g	0.00089 U	0.00089	0.010	N/A	0.0000300	0.0000000267	N/A	5019849
233'44'56'-HeptaCB-(190)	ng/g	0.00054 U	0.00054	0.010	N/A	N/A	N/A	N/A	5019849
233'44'5'6'-HeptaCB-(191)	ng/g	0.00054 U	0.00054	0.010	N/A	N/A	N/A	N/A	5019849
233'455'6'-HeptaCB-(192)	ng/g	0.00061 U	0.00061	0.010	N/A	N/A	N/A	N/A	5019849

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RDL = Reportable Detection Limit
TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,
The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.
WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY572							
Sampling Date		2017/04/27 13:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-LTN-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'33'44'55'-OctaCB-(194)	ng/g	0.0017 U (1)	0.0017	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(195)	ng/g	0.00046 U (1)	0.00046	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(196)	ng/g	0.0021 J (2)	0.0011	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'66'-OctaCB-(197)	ng/g	0.00083 U (2)	0.00083	0.050	N/A	N/A	N/A	N/A	5019849
OctaCB-(198)+(199)	ng/g	0.0034 U (1)	0.0034	0.10	N/A	N/A	N/A	N/A	5019849
22'33'4566'-OctaCB-(200)	ng/g	0.00088 U (2)	0.00088	0.050	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(201)	ng/g	0.00083 U (2)	0.00083	0.050	N/A	N/A	N/A	N/A	5019849
22'33'55'66'-OctaCB-(202)	ng/g	0.0014 U (1)	0.0014	0.050	N/A	N/A	N/A	N/A	5019849
22'344'55'6'-OctaCB-(203)	ng/g	0.0011 U (1)	0.0011	0.050	N/A	N/A	N/A	N/A	5019849
22'344'566'-OctaCB-(204)	ng/g	0.00085 U (2)	0.00085	0.050	N/A	N/A	N/A	N/A	5019849
233'44'55'6'-OctaCB-(205)	ng/g	0.00033 U (2)	0.00033	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'55'6'-NonaCB-(206)	ng/g	0.00629 J	0.00080	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'566'-NonaCB-(207)	ng/g	0.00067 U	0.00067	0.010	N/A	N/A	N/A	N/A	5019849
22'33'455'66'-NonaCB-(208)	ng/g	0.00307 J	0.00079	0.010	N/A	N/A	N/A	N/A	5019849
DecaCB-(209)	ng/g	0.0060 U (3)	0.0060	0.010	N/A	N/A	N/A	N/A	5019849
Total PCB	ng/g	0.317	N/A	N/A	N/A	N/A	N/A	N/A	5019849
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.0000243	N/A	N/A
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	78	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'55'6'-NonaCB-(206)	%	84	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'5'-HeptaCB-(170)	%	142 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'455'66'-NonaCB-(208)	%	118	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'66'-OctaCB-(202)	%	101 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'6'-HeptaCB-(178)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'344'55'-HeptaCB-(180)	%	151 Q (4)	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'34'566'-HeptaCB-(188)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	5019849
EDL = Estimated Detection Limit RDL = Reportable Detection Limit TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient, The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested. WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds QC Batch = Quality Control Batch N/A = Not Applicable (1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit. from 5x dilution (2) from 5x dilution (3) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit. (4) Internal standard recovery is outside method limits. Dilution not needed due to trace levels in the sample.									

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY572							
Sampling Date		2017/04/27 13:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-LTN-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-22'44'66'-HexaCB-(155)	%	100	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'466'-PentaCB-(104)	%	90	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'66'-TetraCB-(54)	%	64	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'6-TriCB-(19)	%	53	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'-DiCB-(4)	%	43	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'6-OctaCB-(205)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'-HeptaCB-(189)	%	107	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'-PentaCB-(105)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'55'-PentaCB-(111)	%	98	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'55'-HexaCB-(167)	%	71	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2344'5-PentaCB-(114)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'5-PentaCB-(118)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2'344'5-PentaCB-(123)	%	94	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2-MonoCB-(1)	%	38	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'55'-HexaCB-(169)	%	29 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'5-PentaCB-(126)	%	81	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'-TetraCB-(77)	%	92	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'5-TetraCB-(81)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'-TriCB-(37)	%	85	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-44'-DiCB-(15)	%	65	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-4-MonoCB-(3)	%	42	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-DecaCB-(209)	%	81	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-HexaCB-(156)+(157)	%	63	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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N/A = Not Applicable

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY573							
Sampling Date		2017/04/27 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-MAN-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch

PCBs									
2-MonoCB-(1)	ng/g	0.0012 U	0.0012	0.010	N/A	N/A	N/A	N/A	5019849
3-MonoCB-(2)	ng/g	0.00094 U	0.00094	0.010	N/A	N/A	N/A	N/A	5019849
4-MonoCB-(3)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
2,2'-DiCB-(4)	ng/g	0.019 U	0.019	0.010	N/A	N/A	N/A	N/A	5019849
2,3-DiCB-(5)	ng/g	0.019 U	0.019	0.010	N/A	N/A	N/A	N/A	5019849
2,3'-DiCB-(6)	ng/g	0.015 U	0.015	0.010	N/A	N/A	N/A	N/A	5019849
2,4-DiCB-(7)	ng/g	0.016 U	0.016	0.010	N/A	N/A	N/A	N/A	5019849
2,4'-DiCB-(8)	ng/g	0.014 UQ	0.014	0.010	N/A	N/A	N/A	N/A	5019849
2,5-DiCB-(9)	ng/g	0.016 U	0.016	0.010	N/A	N/A	N/A	N/A	5019849
2,6-DiCB-(10)	ng/g	0.020 U	0.020	0.010	N/A	N/A	N/A	N/A	5019849
3,3'-DiCB-(11)	ng/g	0.016 U	0.016	0.010	N/A	N/A	N/A	N/A	5019849
DiCB-(12)+(13)	ng/g	0.017 U	0.017	0.020	N/A	N/A	N/A	N/A	5019849
3,5-DiCB-(14)	ng/g	0.015 U	0.015	0.010	N/A	N/A	N/A	N/A	5019849
4,4'-DiCB-(15)	ng/g	0.027 U	0.027	0.010	N/A	N/A	N/A	N/A	5019849
2,2',3-TriCB-(16)	ng/g	0.034 U	0.034	0.010	N/A	N/A	N/A	N/A	5019849
2,2',4-TriCB-(17)	ng/g	0.026 U	0.026	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(18)+(30)	ng/g	0.021 U	0.021	0.020	N/A	N/A	N/A	N/A	5019849
2,2',6-TriCB-(19)	ng/g	0.019 U	0.019	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(20) + (28)	ng/g	0.0047 U (1)	0.0047	0.020	N/A	N/A	N/A	N/A	5019849
TriCB-(21)+(33)	ng/g	0.0025 U	0.0025	0.020	N/A	N/A	N/A	N/A	5019849
2,3,4'-TriCB-(22)	ng/g	0.0025 U	0.0025	0.010	N/A	N/A	N/A	N/A	5019849
2,3,5-TriCB-(23)	ng/g	0.0025 U	0.0025	0.010	N/A	N/A	N/A	N/A	5019849
2,3,6-TriCB-(24)	ng/g	0.018 U	0.018	0.010	N/A	N/A	N/A	N/A	5019849
2,3',4-TriCB-(25)	ng/g	0.0023 U	0.0023	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(26)+(29)	ng/g	0.0022 U	0.0022	0.020	N/A	N/A	N/A	N/A	5019849
2,3',6-TriCB-(27)	ng/g	0.018 U	0.018	0.010	N/A	N/A	N/A	N/A	5019849
2,4',5-TriCB-(31)	ng/g	0.0055 JQ	0.0021	0.010	N/A	N/A	N/A	N/A	5019849
2,4',6-TriCB-(32)	ng/g	0.017 U	0.017	0.010	N/A	N/A	N/A	N/A	5019849
2,3',5'-TriCB-(34)	ng/g	0.0023 U	0.0023	0.010	N/A	N/A	N/A	N/A	5019849

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WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY573							
Sampling Date		2017/04/27 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-MAN-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'4'-TriCB-(35)	ng/g	0.0024 U	0.0024	0.010	N/A	N/A	N/A	N/A	5019849
33'5'-TriCB-(36)	ng/g	0.0020 U	0.0020	0.010	N/A	N/A	N/A	N/A	5019849
344'-TriCB-(37)	ng/g	0.0042 U	0.0042	0.010	N/A	N/A	N/A	N/A	5019849
345'-TriCB-(38)	ng/g	0.0025 U	0.0025	0.010	N/A	N/A	N/A	N/A	5019849
34'5'-TriCB-(39)	ng/g	0.0022 U	0.0022	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(40)+(41)+(71)	ng/g	0.0072 U	0.0072	0.030	N/A	N/A	N/A	N/A	5019849
22'34'-TetraCB-(42)	ng/g	0.0083 U	0.0083	0.010	N/A	N/A	N/A	N/A	5019849
22'35'-TetraCB-(43)	ng/g	0.0096 U	0.0096	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(44)+(47)+(65)	ng/g	0.011 U (1)	0.011	0.030	N/A	N/A	N/A	N/A	5019849
TetraCB-(45)+(51)	ng/g	0.0071 UQ	0.0071	0.020	N/A	N/A	N/A	N/A	5019849
22'36'-TetraCB-(46)	ng/g	0.0087 U	0.0087	0.010	N/A	N/A	N/A	N/A	5019849
22'45'-TetraCB-(48)	ng/g	0.0071 U	0.0071	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(49)+TetraCB-(69)	ng/g	0.0084 J	0.0060	0.020	N/A	N/A	N/A	N/A	5019849
TetraCB-(50)+(53)	ng/g	0.0067 U	0.0067	0.020	N/A	N/A	N/A	N/A	5019849
22'55'-TetraCB-(52)	ng/g	0.0093 JQ	0.0068	0.010	N/A	N/A	N/A	N/A	5019849
22'66'-TetraCB-(54)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-TetraCB-(55)	ng/g	0.0040 U	0.0040	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-Tetra CB(56)	ng/g	0.0039 UQ	0.0039	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(57)	ng/g	0.0034 U	0.0034	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(58)	ng/g	0.0035 U	0.0035	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(59)+(62)+(75)	ng/g	0.0052 U	0.0052	0.030	N/A	N/A	N/A	N/A	5019849
2344'-TetraCB -(60)	ng/g	0.0043 U	0.0043	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.0100 J	0.0037	0.040	N/A	N/A	N/A	N/A	5019849
234'5'-TetraCB-(63)	ng/g	0.0034 UQ	0.0034	0.010	N/A	N/A	N/A	N/A	5019849
234'6'-TetraCB-(64)	ng/g	0.0057 U	0.0057	0.010	N/A	N/A	N/A	N/A	5019849
23'44'-TetraCB-(66)	ng/g	0.0036 U	0.0036	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(67)	ng/g	0.0033 U	0.0033	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(68)	ng/g	0.0031 U	0.0031	0.010	N/A	N/A	N/A	N/A	5019849
23'55'-TetraCB-(72)	ng/g	0.0031 U	0.0031	0.010	N/A	N/A	N/A	N/A	5019849
23'5'6'-TetraCB-(73)	ng/g	0.0049 U	0.0049	0.010	N/A	N/A	N/A	N/A	5019849

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QC Batch = Quality Control Batch

N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY573							
Sampling Date		2017/04/27 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-MAN-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'44'-TetraCB-(77)	ng/g	0.0051 U	0.0051	0.010	N/A	0.000100	0.000000510	N/A	5019849
33'45'-TetraCB-(78)	ng/g	0.0040 U	0.0040	0.010	N/A	N/A	N/A	N/A	5019849
33'45'-TetraCB(79)	ng/g	0.0034 U	0.0034	0.010	N/A	N/A	N/A	N/A	5019849
33'55'-TetraCB-(80)	ng/g	0.0035 U	0.0035	0.010	N/A	N/A	N/A	N/A	5019849
344'5'-TetraCB-(81)	ng/g	0.0050 U	0.0050	0.010	N/A	0.000300	0.00000150	N/A	5019849
22'33'4'-PentaCB-(82)	ng/g	0.0076 UQ	0.0076	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(83)+(99)	ng/g	0.0135 J	0.0065	0.020	N/A	N/A	N/A	N/A	5019849
22'33'6'-PentaCB-(84)	ng/g	0.0071 U	0.0071	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(85)+(116)+(117)	ng/g	0.0053 U	0.0053	0.030	N/A	N/A	N/A	N/A	5019849
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.0052 U	0.0052	0.060	N/A	N/A	N/A	N/A	5019849
PentaCB-(88)+(91)	ng/g	0.0060 U	0.0060	0.020	N/A	N/A	N/A	N/A	5019849
22'346'-PentaCB-(89)	ng/g	0.0064 U	0.0064	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(90)+(101)+(113)	ng/g	0.0230 J	0.0056	0.030	N/A	N/A	N/A	N/A	5019849
22'355'-PentaCB-(92)	ng/g	0.0065 UQ	0.0065	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.0058 U	0.0058	0.040	N/A	N/A	N/A	N/A	5019849
22'356'-PentaCB-(94)	ng/g	0.0063 U	0.0063	0.010	N/A	N/A	N/A	N/A	5019849
22'35'6'-PentaCB-(95)	ng/g	0.0085 JQ	0.0056	0.010	N/A	N/A	N/A	N/A	5019849
22'366'-PentaCB-(96)	ng/g	0.00043 U	0.00043	0.010	N/A	N/A	N/A	N/A	5019849
22'45'6'-PentaCB-(103)	ng/g	0.0050 U	0.0050	0.010	N/A	N/A	N/A	N/A	5019849
22'466'-PentaCB-(104)	ng/g	0.00035 U	0.00035	0.010	N/A	N/A	N/A	N/A	5019849
233'44'-PentaCB-(105)	ng/g	0.0057 U (1)	0.0057	0.010	N/A	0.0000300	0.000000171	N/A	5019849
233'45'-PentaCB-(106)	ng/g	0.0039 U	0.0039	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(107)	ng/g	0.0033 U	0.0033	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(108)+(124)	ng/g	0.0036 U	0.0036	0.020	N/A	N/A	N/A	N/A	5019849
PentaCB-(110)+(115)	ng/g	0.014 U (1)	0.014	0.020	N/A	N/A	N/A	N/A	5019849
233'55'-PentaCB-(111)	ng/g	0.0046 U	0.0046	0.010	N/A	N/A	N/A	N/A	5019849
233'56'-PentaCB-(112)	ng/g	0.0047 U	0.0047	0.010	N/A	N/A	N/A	N/A	5019849
2344'5'-PentaCB-(114)	ng/g	0.0044 U	0.0044	0.010	N/A	0.0000300	0.000000132	N/A	5019849
23'44'5'-PentaCB-(118)	ng/g	0.0150	0.0044	0.010	N/A	0.0000300	0.000000450	N/A	5019849
23'455'-PentaCB-(120)	ng/g	0.0043 U	0.0043	0.010	N/A	N/A	N/A	N/A	5019849

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N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY573							
Sampling Date		2017/04/27 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-MAN-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'45'6-PentaCB-(121)	ng/g	0.0045 U	0.0045	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(122)	ng/g	0.0039 U	0.0039	0.010	N/A	N/A	N/A	N/A	5019849
23'44'5'-PentaCB-(123)	ng/g	0.0049 U	0.0049	0.010	N/A	0.0000300	0.000000147	N/A	5019849
33'44'5'-PentaCB-(126)	ng/g	0.0041 U	0.0041	0.010	N/A	0.100	0.000410	N/A	5019849
33'455'-PentaCB-(127)	ng/g	0.0036 U	0.0036	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(128)+(166)	ng/g	0.014 U	0.014	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(129)+(138)+(163)	ng/g	0.045 Q	0.015	0.030	N/A	N/A	N/A	N/A	5019849
22'33'45'-HexaCB-(130)	ng/g	0.018 U	0.018	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(131)	ng/g	0.020 U	0.020	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(132)	ng/g	0.019 U	0.019	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'-HexaCB-(133)	ng/g	0.016 U	0.016	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(134)+(143)	ng/g	0.018 U	0.018	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(135)+(151)	ng/g	0.010 U	0.010	0.020	N/A	N/A	N/A	N/A	5019849
22'33'66'-HexaCB-(136)	ng/g	0.0068 U	0.0068	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'-HexaCB-(137)	ng/g	0.017 U	0.017	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(139)+(140)	ng/g	0.015 U	0.015	0.020	N/A	N/A	N/A	N/A	5019849
22'3455'-HexaCB-(141)	ng/g	0.017 U	0.017	0.010	N/A	N/A	N/A	N/A	5019849
22'3456'-HexaCB-(142)	ng/g	0.018 U	0.018	0.010	N/A	N/A	N/A	N/A	5019849
22'345'6'-HexaCB-(144)	ng/g	0.0094 U	0.0094	0.010	N/A	N/A	N/A	N/A	5019849
22'3466'-HexaCB-(145)	ng/g	0.0075 U	0.0075	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'-HexaCB-(146)	ng/g	0.014 UQ	0.014	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(147)+(149)	ng/g	0.021	0.015	0.020	N/A	N/A	N/A	N/A	5019849
22'34'56'-HexaCB-(148)	ng/g	0.0093 U	0.0093	0.010	N/A	N/A	N/A	N/A	5019849
22'34'66'-HexaCB-(150)	ng/g	0.0068 U	0.0068	0.010	N/A	N/A	N/A	N/A	5019849
22'3566'-HexaCB-(152)	ng/g	0.0068 U	0.0068	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(153)+(168)	ng/g	0.043 B	0.012	0.010	N/A	N/A	N/A	N/A	5019849
22'44'56'-HexaCB-(154)	ng/g	0.0082 U	0.0082	0.010	N/A	N/A	N/A	N/A	5019849
22'44'66'-HexaCB-(155)	ng/g	0.0059 U	0.0059	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(156)+(157)	ng/g	0.0044 UQ	0.0044	0.020	N/A	0.0000300	0.000000132	N/A	5019849
233'44'6'-HexaCB-(158)	ng/g	0.011 UQ	0.011	0.010	N/A	N/A	N/A	N/A	5019849
233'455'-HexaCB-(159)	ng/g	0.0037 U	0.0037	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY573							
Sampling Date		2017/04/27 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-MAN-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'456-HexaCB-(160)	ng/g	0.013 U	0.013	0.010	N/A	N/A	N/A	N/A	5019849
233'45'6-HexaCB-(161)	ng/g	0.012 U	0.012	0.010	N/A	N/A	N/A	N/A	5019849
233'4'55'-HexaCB-(162)	ng/g	0.0037 U	0.0037	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'6-HexaCB-(164)	ng/g	0.011 U	0.011	0.010	N/A	N/A	N/A	N/A	5019849
233'55'6-HexaCB-(165)	ng/g	0.013 U	0.013	0.010	N/A	N/A	N/A	N/A	5019849
23'44'55'-HexaCB-(167)	ng/g	0.0042 U	0.0042	0.010	N/A	0.0000300	0.000000126	N/A	5019849
33'44'55'-HexaCB-(169)	ng/g	0.0044 U	0.0044	0.010	N/A	0.0300	0.000132	N/A	5019849
22'33'44'5-HeptaCB-(170)	ng/g	0.0075 UQ	0.0075	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(171)+(173)	ng/g	0.011 U	0.011	0.020	N/A	N/A	N/A	N/A	5019849
22'33'455'-HeptaCB-(172)	ng/g	0.011 U	0.011	0.010	N/A	N/A	N/A	N/A	5019849
22'33'456'-HeptaCB-(174)	ng/g	0.010 U	0.010	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6-HeptaCB-(175)	ng/g	0.0074 U	0.0074	0.010	N/A	N/A	N/A	N/A	5019849
22'33'466'-HeptaCB-(176)	ng/g	0.0061 U	0.0061	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(177)	ng/g	0.011 UQ	0.011	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'6-HeptaCB-(178)	ng/g	0.0084 UQ	0.0084	0.010	N/A	N/A	N/A	N/A	5019849
22'33'566'-HeptaCB-(179)	ng/g	0.0059 U	0.0059	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(180)+(193)	ng/g	0.011 U (1)	0.011	0.020	N/A	N/A	N/A	N/A	5019849
22'344'56-HeptaCB-(181)	ng/g	0.011 U	0.011	0.010	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(182)	ng/g	0.0080 U	0.0080	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'6-HeptaCB-(183)	ng/g	0.0090 UQ	0.0090	0.010	N/A	N/A	N/A	N/A	5019849
22'344'66'-HeptaCB-(184)	ng/g	0.0055 U	0.0055	0.010	N/A	N/A	N/A	N/A	5019849
22'3455'6-HeptaCB-(185)	ng/g	0.011 U	0.011	0.010	N/A	N/A	N/A	N/A	5019849
22'34566'-HeptaCB-(186)	ng/g	0.0062 U	0.0062	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'6-HeptaCB-(187)	ng/g	0.0200 Q	0.0076	0.010	N/A	N/A	N/A	N/A	5019849
22'34'566'-HeptaCB-(188)	ng/g	0.0064 U	0.0064	0.010	N/A	N/A	N/A	N/A	5019849
233'44'55'-HeptaCB-(189)	ng/g	0.0023 U	0.0023	0.010	N/A	0.0000300	0.0000000690	N/A	5019849
233'44'56-HeptaCB-(190)	ng/g	0.0084 U	0.0084	0.010	N/A	N/A	N/A	N/A	5019849
233'44'5'6-HeptaCB-(191)	ng/g	0.0078 U	0.0078	0.010	N/A	N/A	N/A	N/A	5019849
233'455'6-HeptaCB-(192)	ng/g	0.0088 U	0.0088	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'55'-OctaCB-(194)	ng/g	0.0098 U	0.0098	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY573							
Sampling Date		2017/04/27 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-MAN-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'33'44'56-OctaCB-(195)	ng/g	0.010 U	0.010	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(196)	ng/g	0.018 U	0.018	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'66'OctaCB-(197)	ng/g	0.012 U	0.012	0.010	N/A	N/A	N/A	N/A	5019849
OctaCB-(198)+(199)	ng/g	0.019 U	0.019	0.020	N/A	N/A	N/A	N/A	5019849
22'33'4566'-OctaCB-(200)	ng/g	0.014 U	0.014	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(201)	ng/g	0.012 U	0.012	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'66'-OctaCB-(202)	ng/g	0.014 U	0.014	0.010	N/A	N/A	N/A	N/A	5019849
22'344'55'6-OctaCB-(203)	ng/g	0.018 U	0.018	0.010	N/A	N/A	N/A	N/A	5019849
22'344'566'-OctaCB-(204)	ng/g	0.012 U	0.012	0.010	N/A	N/A	N/A	N/A	5019849
233'44'55'6-OctaCB-(205)	ng/g	0.0081 U	0.0081	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'55'6-NonaCB-(206)	ng/g	0.012 U	0.012	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'566'-NonaCB-(207)	ng/g	0.0094 U	0.0094	0.010	N/A	N/A	N/A	N/A	5019849
22'33'455'66'-NonaCB-(208)	ng/g	0.012 U	0.012	0.010	N/A	N/A	N/A	N/A	5019849
DecaCB-(209)	ng/g	0.025 U	0.025	0.010	N/A	N/A	N/A	N/A	5019849
Total PCB	ng/g	0.222	N/A	N/A	N/A	N/A	N/A	N/A	5019849
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.000545	N/A	N/A
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	86	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'55'6'-NonaCB-(206)	%	80	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'5'-HeptaCB-(170)	%	138 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'455'66'-NonaCB-(208)	%	118	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'66'-OctaCB-(202)	%	147 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'6'-HeptaCB-(178)	%	85	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'344'55'-HeptaCB-(180)	%	135 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'34'566'-HeptaCB-(188)	%	86	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'44'66'-HexaCB-(155)	%	84	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'466'-PentaCB-(104)	%	63	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'66'-TetraCB-(54)	%	45	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'6-TriCB-(19)	%	38	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'-DiCB-(4)	%	30	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'6'-OctaCB-(205)	%	99	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY573							
Sampling Date		2017/04/27 12:00							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-MAN-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-233'44'55'-HeptaCB-(189)	%	128	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'-PentaCB-(105)	%	104	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'55'-PentaCB-(111)	%	105	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'55'-HexaCB-(167)	%	92	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2344'5'-PentaCB-(114)	%	104	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'5'-PentaCB-(118)	%	105	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2'344'5'-PentaCB-(123)	%	108	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2-MonoCB-(1)	%	28	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'55'-HexaCB-(169)	%	54	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'5'-PentaCB-(126)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'-TetraCB-(77)	%	125	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'5'-TetraCB-(81)	%	121	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'-TriCB-(37)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-44'-DiCB-(15)	%	56	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-4-MonoCB-(3)	%	32	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-DecaCB-(209)	%	74	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-HexaCB-(156)+(157)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY574							
Sampling Date		2017/04/28 13:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-HC-COC-170428	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch

PCBs									
2-MonoCB-(1)	ng/g	0.00022 U (1)	0.00022	0.010	N/A	N/A	N/A	N/A	5019849
3-MonoCB-(2)	ng/g	0.00017 U	0.00017	0.010	N/A	N/A	N/A	N/A	5019849
4-MonoCB-(3)	ng/g	0.00020 U	0.00020	0.010	N/A	N/A	N/A	N/A	5019849
22'-DiCB-(4)	ng/g	0.00059 U	0.00059	0.010	N/A	N/A	N/A	N/A	5019849
2,3-DiCB-(5)	ng/g	0.00043 U	0.00043	0.010	N/A	N/A	N/A	N/A	5019849
2,3'-DiCB-(6)	ng/g	0.00036 U	0.00036	0.010	N/A	N/A	N/A	N/A	5019849
2,4-DiCB-(7)	ng/g	0.00037 U	0.00037	0.010	N/A	N/A	N/A	N/A	5019849
2,4'-DiCB-(8)	ng/g	0.00116 JQ	0.00030	0.010	N/A	N/A	N/A	N/A	5019849
2,5-DiCB-(9)	ng/g	0.00036 U	0.00036	0.010	N/A	N/A	N/A	N/A	5019849
2,6-DiCB-(10)	ng/g	0.00059 U	0.00059	0.010	N/A	N/A	N/A	N/A	5019849
3,3'-DiCB-(11)	ng/g	0.00756 J	0.00036	0.010	N/A	N/A	N/A	N/A	5019849
DiCB-(12)+(13)	ng/g	0.00037 U	0.00037	0.020	N/A	N/A	N/A	N/A	5019849
3,5-DiCB-(14)	ng/g	0.00036 U	0.00036	0.010	N/A	N/A	N/A	N/A	5019849
4,4'-DiCB-(15)	ng/g	0.00088 U (1)	0.00088	0.010	N/A	N/A	N/A	N/A	5019849
22'3-TriCB-(16)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
22'4-TriCB-(17)	ng/g	0.00096 J	0.00095	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(18)+(30)	ng/g	0.00195 J	0.00075	0.020	N/A	N/A	N/A	N/A	5019849
22'6-TriCB-(19)	ng/g	0.00074 U	0.00074	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(20) + (28)	ng/g	0.00417 J	0.00020	0.020	N/A	N/A	N/A	N/A	5019849
TriCB-(21)+(33)	ng/g	0.00145 J	0.00020	0.020	N/A	N/A	N/A	N/A	5019849
234'-TriCB-(22)	ng/g	0.00115 J	0.00021	0.010	N/A	N/A	N/A	N/A	5019849
235-TriCB-(23)	ng/g	0.00022 U	0.00022	0.010	N/A	N/A	N/A	N/A	5019849
236-TriCB-(24)	ng/g	0.00071 U	0.00071	0.010	N/A	N/A	N/A	N/A	5019849
23'4-TriCB-(25)	ng/g	0.00038 J	0.00020	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(26)+(29)	ng/g	0.00065 U (1)	0.00065	0.020	N/A	N/A	N/A	N/A	5019849
23'6-TriCB-(27)	ng/g	0.00064 U	0.00064	0.010	N/A	N/A	N/A	N/A	5019849
24'5-TriCB-(31)	ng/g	0.00297 JQ	0.00019	0.010	N/A	N/A	N/A	N/A	5019849
24'6-TriCB-(32)	ng/g	0.00064 U (1)	0.00064	0.010	N/A	N/A	N/A	N/A	5019849
23'5'-TriCB-(34)	ng/g	0.00021 U	0.00021	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY574							
Sampling Date		2017/04/28 13:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-HC-COC-170428	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'4'-TriCB-(35)	ng/g	0.00024 U (1)	0.00024	0.010	N/A	N/A	N/A	N/A	5019849
33'5'-TriCB-(36)	ng/g	0.00018 U (1)	0.00018	0.010	N/A	N/A	N/A	N/A	5019849
344'4'-TriCB-(37)	ng/g	0.0013 U (1)	0.0013	0.010	N/A	N/A	N/A	N/A	5019849
345'-TriCB-(38)	ng/g	0.00020 U	0.00020	0.010	N/A	N/A	N/A	N/A	5019849
34'5'-TriCB-(39)	ng/g	0.00020 U	0.00020	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(40)+(41)+(71)	ng/g	0.0026 U (1)	0.0026	0.030	N/A	N/A	N/A	N/A	5019849
22'34'-TetraCB-(42)	ng/g	0.00187 J	0.00052	0.010	N/A	N/A	N/A	N/A	5019849
22'35'-TetraCB-(43)	ng/g	0.00063 U	0.00063	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(44)+(47)+(65)	ng/g	0.0133 J	0.00042	0.030	N/A	N/A	N/A	N/A	5019849
TetraCB-(45)+(51)	ng/g	0.0013 UQ (1)	0.0013	0.020	N/A	N/A	N/A	N/A	5019849
22'36'-TetraCB-(46)	ng/g	0.00056 U	0.00056	0.010	N/A	N/A	N/A	N/A	5019849
22'45'-TetraCB-(48)	ng/g	0.00092 U (1)	0.00092	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(49)+TetraCB-(69)	ng/g	0.0045 U (1)	0.0045	0.020	N/A	N/A	N/A	N/A	5019849
TetraCB-(50)+(53)	ng/g	0.00087 J	0.00045	0.020	N/A	N/A	N/A	N/A	5019849
22'55'-TetraCB-(52)	ng/g	0.00955 JQ	0.00043	0.010	N/A	N/A	N/A	N/A	5019849
22'66'-TetraCB-(54)	ng/g	0.00078 U	0.00078	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-TetraCB-(55)	ng/g	0.00054 U	0.00054	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-Tetra CB(56)	ng/g	0.0016 UQ (1)	0.0016	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(57)	ng/g	0.00051 U	0.00051	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(58)	ng/g	0.00052 U	0.00052	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(59)+(62)+(75)	ng/g	0.00063 U (1)	0.00063	0.030	N/A	N/A	N/A	N/A	5019849
2344'-TetraCB -(60)	ng/g	0.00089 J	0.00054	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.00972 J	0.00053	0.040	N/A	N/A	N/A	N/A	5019849
234'5'-TetraCB-(63)	ng/g	0.00049 UQ	0.00049	0.010	N/A	N/A	N/A	N/A	5019849
234'6'-TetraCB-(64)	ng/g	0.00296 J	0.00037	0.010	N/A	N/A	N/A	N/A	5019849
23'44'-TetraCB-(66)	ng/g	0.00495 J	0.00051	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(67)	ng/g	0.00050 U	0.00050	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(68)	ng/g	0.00224 J	0.00050	0.010	N/A	N/A	N/A	N/A	5019849
23'55'-TetraCB-(72)	ng/g	0.00049 U	0.00049	0.010	N/A	N/A	N/A	N/A	5019849
23'5'6'-TetraCB-(73)	ng/g	0.00032 U	0.00032	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY574							
Sampling Date		2017/04/28 13:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-HC-COC-170428	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'44'-TetraCB-(77)	ng/g	0.00088 J	0.00067	0.010	N/A	0.000100	0.0000000880	N/A	5019849
33'45'-TetraCB-(78)	ng/g	0.00048 U	0.00048	0.010	N/A	N/A	N/A	N/A	5019849
33'45'-TetraCB(79)	ng/g	0.00044 U	0.00044	0.010	N/A	N/A	N/A	N/A	5019849
33'55'-TetraCB-(80)	ng/g	0.00046 U	0.00046	0.010	N/A	N/A	N/A	N/A	5019849
344'5'-TetraCB-(81)	ng/g	0.00067 U	0.00067	0.010	N/A	0.000300	0.000000201	N/A	5019849
22'33'4'-PentaCB-(82)	ng/g	0.0011 UQ (1)	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(83)+(99)	ng/g	0.0159 J	0.00022	0.020	N/A	N/A	N/A	N/A	5019849
22'33'6'-PentaCB-(84)	ng/g	0.00308 J	0.00026	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(85)+(116)+(117)	ng/g	0.00301 J	0.00018	0.030	N/A	N/A	N/A	N/A	5019849
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.00957 J	0.00019	0.060	N/A	N/A	N/A	N/A	5019849
PentaCB-(88)+(91)	ng/g	0.00242 J	0.00023	0.020	N/A	N/A	N/A	N/A	5019849
22'346'-PentaCB-(89)	ng/g	0.00023 U	0.00023	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(90)+(101)+(113)	ng/g	0.0200 J	0.00019	0.030	N/A	N/A	N/A	N/A	5019849
22'355'-PentaCB-(92)	ng/g	0.00445 JQ	0.00022	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.00085 J	0.00023	0.040	N/A	N/A	N/A	N/A	5019849
22'356'-PentaCB-(94)	ng/g	0.00024 U	0.00024	0.010	N/A	N/A	N/A	N/A	5019849
22'35'6'-PentaCB-(95)	ng/g	0.00999 JQ	0.00021	0.010	N/A	N/A	N/A	N/A	5019849
22'366'-PentaCB-(96)	ng/g	0.00016 U (1)	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
22'45'6'-PentaCB-(103)	ng/g	0.00031 J	0.00020	0.010	N/A	N/A	N/A	N/A	5019849
22'466'-PentaCB-(104)	ng/g	0.000077 U	0.000077	0.010	N/A	N/A	N/A	N/A	5019849
233'44'-PentaCB-(105)	ng/g	0.00845 J	0.00022	0.010	N/A	0.0000300	0.000000254	N/A	5019849
233'45'-PentaCB-(106)	ng/g	0.00019 U	0.00019	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(107)	ng/g	0.00159 J	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(108)+(124)	ng/g	0.00060 J	0.00018	0.020	N/A	N/A	N/A	N/A	5019849
PentaCB-(110)+(115)	ng/g	0.0178 J	0.00017	0.020	N/A	N/A	N/A	N/A	5019849
233'55'-PentaCB-(111)	ng/g	0.00016 U	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
233'56'-PentaCB-(112)	ng/g	0.00018 U	0.00018	0.010	N/A	N/A	N/A	N/A	5019849
2344'5'-PentaCB-(114)	ng/g	0.00022 U	0.00022	0.010	N/A	0.0000300	0.0000000660	N/A	5019849
23'44'5'-PentaCB-(118)	ng/g	0.0181	0.00022	0.010	N/A	0.0000300	0.000000543	N/A	5019849
23'455'-PentaCB-(120)	ng/g	0.00015 U	0.00015	0.010	N/A	N/A	N/A	N/A	5019849

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SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY574							
Sampling Date		2017/04/28 13:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-HC-COC-170428	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'45'6'-PentaCB-(121)	ng/g	0.00017 U	0.00017	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(122)	ng/g	0.00019 U	0.00019	0.010	N/A	N/A	N/A	N/A	5019849
23'44'5'-PentaCB-(123)	ng/g	0.00029 U (1)	0.00029	0.010	N/A	0.0000300	0.00000000870	N/A	5019849
33'44'5'-PentaCB-(126)	ng/g	0.00020 U	0.00020	0.010	N/A	0.100	0.0000200	N/A	5019849
33'455'-PentaCB-(127)	ng/g	0.00017 U	0.00017	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(128)+(166)	ng/g	0.00826 J	0.00050	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(129)+(138)+(163)	ng/g	0.0601 Q	0.00054	0.030	N/A	N/A	N/A	N/A	5019849
22'33'45'-HexaCB-(130)	ng/g	0.0027 U (1)	0.0027	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(131)	ng/g	0.00071 U	0.00071	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(132)	ng/g	0.0104	0.00065	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'-HexaCB-(133)	ng/g	0.00106 J	0.00059	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(134)+(143)	ng/g	0.0013 U (1)	0.0013	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(135)+(151)	ng/g	0.0129 J	0.00039	0.020	N/A	N/A	N/A	N/A	5019849
22'33'66'-HexaCB-(136)	ng/g	0.0025 U (1)	0.0025	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'-HexaCB-(137)	ng/g	0.00075 J	0.00065	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(139)+(140)	ng/g	0.00071 U (1)	0.00071	0.020	N/A	N/A	N/A	N/A	5019849
22'3455'-HexaCB-(141)	ng/g	0.00394 J	0.00060	0.010	N/A	N/A	N/A	N/A	5019849
22'3456'-HexaCB-(142)	ng/g	0.00064 U	0.00064	0.010	N/A	N/A	N/A	N/A	5019849
22'345'6'-HexaCB-(144)	ng/g	0.00149 J	0.00036	0.010	N/A	N/A	N/A	N/A	5019849
22'3466'-HexaCB-(145)	ng/g	0.00031 U	0.00031	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'-HexaCB-(146)	ng/g	0.0084 UQ (1)	0.0084	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(147)+(149)	ng/g	0.0370	0.00057	0.020	N/A	N/A	N/A	N/A	5019849
22'34'56'-HexaCB-(148)	ng/g	0.00037 U	0.00037	0.010	N/A	N/A	N/A	N/A	5019849
22'34'66'-HexaCB-(150)	ng/g	0.00031 U	0.00031	0.010	N/A	N/A	N/A	N/A	5019849
22'3566'-HexaCB-(152)	ng/g	0.00026 U	0.00026	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(153)+(168)	ng/g	0.0708 B	0.00046	0.010	N/A	N/A	N/A	N/A	5019849
22'44'56'-HexaCB-(154)	ng/g	0.00210 J	0.00033	0.010	N/A	N/A	N/A	N/A	5019849
22'44'66'-HexaCB-(155)	ng/g	0.00020 U	0.00020	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(156)+(157)	ng/g	0.0010 UQ (1)	0.0010	0.020	N/A	0.0000300	0.0000000300	N/A	5019849
233'44'6'-HexaCB-(158)	ng/g	0.00370 JQ	0.00041	0.010	N/A	N/A	N/A	N/A	5019849

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Maxxam ID		EIY574							
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COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-HC-COC-170428	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'455'-HexaCB-(159)	ng/g	0.00024 U	0.00024	0.010	N/A	N/A	N/A	N/A	5019849
233'456'-HexaCB-(160)	ng/g	0.00048 U	0.00048	0.010	N/A	N/A	N/A	N/A	5019849
233'45'6'-HexaCB-(161)	ng/g	0.00044 U	0.00044	0.010	N/A	N/A	N/A	N/A	5019849
233'4'55'-HexaCB-(162)	ng/g	0.00024 U	0.00024	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'6'-HexaCB-(164)	ng/g	0.00221 J	0.00041	0.010	N/A	N/A	N/A	N/A	5019849
233'55'6'-HexaCB-(165)	ng/g	0.00046 U	0.00046	0.010	N/A	N/A	N/A	N/A	5019849
23'44'55'-HexaCB-(167)	ng/g	0.00098 J	0.00026	0.010	N/A	0.0000300	0.0000000294	N/A	5019849
33'44'55'-HexaCB-(169)	ng/g	0.00028 U	0.00028	0.010	N/A	0.0300	0.00000840	N/A	5019849
22'33'44'5'-HeptaCB-(170)	ng/g	0.0024 UQ (1)	0.0024	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(171)+(173)	ng/g	0.0016 U (1)	0.0016	0.020	N/A	N/A	N/A	N/A	5019849
22'33'455'-HeptaCB-(172)	ng/g	0.00060 U	0.00060	0.010	N/A	N/A	N/A	N/A	5019849
22'33'456'-HeptaCB-(174)	ng/g	0.00856 J	0.00059	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(175)	ng/g	0.00081 J	0.00037	0.010	N/A	N/A	N/A	N/A	5019849
22'33'466'-HeptaCB-(176)	ng/g	0.00029 U (1)	0.00029	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(177)	ng/g	0.00935 JQ	0.00060	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'6'-HeptaCB-(178)	ng/g	0.00510 JQ	0.00040	0.010	N/A	N/A	N/A	N/A	5019849
22'33'566'-HeptaCB-(179)	ng/g	0.00027 U (1)	0.00027	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(180)+(193)	ng/g	0.00677 J	0.00046	0.020	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(181)	ng/g	0.00060 U	0.00060	0.010	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(182)	ng/g	0.00038 U	0.00038	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'6'-HeptaCB-(183)	ng/g	0.00952 JQ	0.00051	0.010	N/A	N/A	N/A	N/A	5019849
22'344'66'-HeptaCB-(184)	ng/g	0.00028 U	0.00028	0.010	N/A	N/A	N/A	N/A	5019849
22'3455'6'-HeptaCB-(185)	ng/g	0.00066 U	0.00066	0.010	N/A	N/A	N/A	N/A	5019849
22'34566'-HeptaCB-(186)	ng/g	0.00031 U	0.00031	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'6'-HeptaCB-(187)	ng/g	0.0343 Q	0.00037	0.010	N/A	N/A	N/A	N/A	5019849
22'34'566'-HeptaCB-(188)	ng/g	0.00028 U (1)	0.00028	0.010	N/A	N/A	N/A	N/A	5019849
233'44'55'-HeptaCB-(189)	ng/g	0.00087 U	0.00087	0.010	N/A	0.0000300	0.0000000261	N/A	5019849
233'44'56'-HeptaCB-(190)	ng/g	0.00053 J	0.00043	0.010	N/A	N/A	N/A	N/A	5019849
233'44'5'6'-HeptaCB-(191)	ng/g	0.00044 U	0.00044	0.010	N/A	N/A	N/A	N/A	5019849
233'455'6'-HeptaCB-(192)	ng/g	0.00049 U	0.00049	0.010	N/A	N/A	N/A	N/A	5019849

EDL = Estimated Detection Limit

RDL = Reportable Detection Limit

TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,

The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY574							
Sampling Date		2017/04/28 13:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-HC-COC-170428	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'33'44'55'-OctaCB-(194)	ng/g	0.00058 U (1)	0.00058	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(195)	ng/g	0.0010 U (2)	0.0010	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(196)	ng/g	0.0010 U (1)	0.0010	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'66'-OctaCB-(197)	ng/g	0.00078 U (1)	0.00078	0.050	N/A	N/A	N/A	N/A	5019849
OctaCB-(198)+(199)	ng/g	0.0096 J (1)	0.0011	0.040	N/A	N/A	N/A	N/A	5019849
22'33'4566'-OctaCB-(200)	ng/g	0.00083 U (1)	0.00083	0.050	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(201)	ng/g	0.0010 U (2)	0.0010	0.050	N/A	N/A	N/A	N/A	5019849
22'33'55'66'-OctaCB-(202)	ng/g	0.0029 U (2)	0.0029	0.050	N/A	N/A	N/A	N/A	5019849
22'344'55'6'-OctaCB-(203)	ng/g	0.0039 U (2)	0.0039	0.050	N/A	N/A	N/A	N/A	5019849
22'344'566'-OctaCB-(204)	ng/g	0.00080 U (1)	0.00080	0.050	N/A	N/A	N/A	N/A	5019849
233'44'55'6'-OctaCB-(205)	ng/g	0.00056 U (1)	0.00056	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'55'6'-NonaCB-(206)	ng/g	0.0085 U (3)	0.0085	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'566'-NonaCB-(207)	ng/g	0.00250 J	0.00067	0.010	N/A	N/A	N/A	N/A	5019849
22'33'455'66'-NonaCB-(208)	ng/g	0.00611 J	0.00079	0.010	N/A	N/A	N/A	N/A	5019849
DecaCB-(209)	ng/g	0.0111	0.00073	0.010	N/A	N/A	N/A	N/A	5019849
Total PCB	ng/g	0.505	N/A	N/A	N/A	N/A	N/A	N/A	5019849
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.0000296	N/A	N/A
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	70	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'55'6'-NonaCB-(206)	%	79	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'5'-HeptaCB-(170)	%	132 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'455'66'-NonaCB-(208)	%	111	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'66'-OctaCB-(202)	%	90 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'6'-HeptaCB-(178)	%	95	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'344'55'-HeptaCB-(180)	%	142 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'34'566'-HeptaCB-(188)	%	92	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'44'66'-HexaCB-(155)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	5019849
<p>EDL = Estimated Detection Limit RDL = Reportable Detection Limit TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient, The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested. WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds QC Batch = Quality Control Batch N/A = Not Applicable (1) from 5x dilution (2) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit. from 5x dilution (3) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.</p>									

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY574							
Sampling Date		2017/04/28 13:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-HC-COC-170428	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-22'466'-PentaCB-(104)	%	78	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'66'-TetraCB-(54)	%	52	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'6'-TriCB-(19)	%	43	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'-DiCB-(4)	%	34	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'6-OctaCB-(205)	%	91	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'-HeptaCB-(189)	%	101	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'-PentaCB-(105)	%	92	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'55'-PentaCB-(111)	%	91	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'55'-HexaCB-(167)	%	80	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2344'5-PentaCB-(114)	%	91	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'5-PentaCB-(118)	%	92	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2'344'5-PentaCB-(123)	%	91	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2-MonoCB-(1)	%	30	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'55'-HexaCB-(169)	%	28 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'5-PentaCB-(126)	%	82	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'-TetraCB-(77)	%	87	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'5-TetraCB-(81)	%	87	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'-TriCB-(37)	%	77	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-44'-DiCB-(15)	%	54	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-4-MonoCB-(3)	%	31	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-DecaCB-(209)	%	71	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-HexaCB-(156)+(157)	%	68	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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QC Batch = Quality Control Batch

N/A = Not Applicable

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY575							
Sampling Date		2017/04/27 12:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-MUS-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch

PCBs									
2-MonoCB-(1)	ng/g	0.00024 U (1)	0.00024	0.010	N/A	N/A	N/A	N/A	5019849
3-MonoCB-(2)	ng/g	0.00024 U (1)	0.00024	0.010	N/A	N/A	N/A	N/A	5019849
4-MonoCB-(3)	ng/g	0.00029 U (1)	0.00029	0.010	N/A	N/A	N/A	N/A	5019849
2,2'-DiCB-(4)	ng/g	0.00055 U	0.00055	0.010	N/A	N/A	N/A	N/A	5019849
2,3-DiCB-(5)	ng/g	0.00019 U	0.00019	0.010	N/A	N/A	N/A	N/A	5019849
2,3'-DiCB-(6)	ng/g	0.00016 U	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
2,4-DiCB-(7)	ng/g	0.00016 U	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
2,4'-DiCB-(8)	ng/g	0.00118 JQ	0.00013	0.010	N/A	N/A	N/A	N/A	5019849
2,5-DiCB-(9)	ng/g	0.00015 U	0.00015	0.010	N/A	N/A	N/A	N/A	5019849
2,6-DiCB-(10)	ng/g	0.00055 U	0.00055	0.010	N/A	N/A	N/A	N/A	5019849
3,3'-DiCB-(11)	ng/g	0.00808 J	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
DiCB-(12)+(13)	ng/g	0.00016 U	0.00016	0.020	N/A	N/A	N/A	N/A	5019849
3,5-DiCB-(14)	ng/g	0.00016 U	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
4,4'-DiCB-(15)	ng/g	0.0011 U (1)	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
2,2',3-TriCB-(16)	ng/g	0.00090 J	0.00087	0.010	N/A	N/A	N/A	N/A	5019849
2,2',4-TriCB-(17)	ng/g	0.00079 U (1)	0.00079	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(18)+(30)	ng/g	0.0018 U (1)	0.0018	0.020	N/A	N/A	N/A	N/A	5019849
2,2',6-TriCB-(19)	ng/g	0.00060 U	0.00060	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(20) + (28)	ng/g	0.00614 J	0.00020	0.020	N/A	N/A	N/A	N/A	5019849
TriCB-(21)+(33)	ng/g	0.00220 J	0.00020	0.020	N/A	N/A	N/A	N/A	5019849
2,3,4'-TriCB-(22)	ng/g	0.0011 U (1)	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
2,3,5-TriCB-(23)	ng/g	0.00021 U	0.00021	0.010	N/A	N/A	N/A	N/A	5019849
2,3,6-TriCB-(24)	ng/g	0.00058 U	0.00058	0.010	N/A	N/A	N/A	N/A	5019849
2,3',4-TriCB-(25)	ng/g	0.00036 U (1)	0.00036	0.010	N/A	N/A	N/A	N/A	5019849
TriCB-(26)+(29)	ng/g	0.00079 J	0.00020	0.020	N/A	N/A	N/A	N/A	5019849
2,3',6-TriCB-(27)	ng/g	0.00052 U	0.00052	0.010	N/A	N/A	N/A	N/A	5019849
2,4',5-TriCB-(31)	ng/g	0.00358 JQ	0.00019	0.010	N/A	N/A	N/A	N/A	5019849
2,4',6-TriCB-(32)	ng/g	0.00059 U (1)	0.00059	0.010	N/A	N/A	N/A	N/A	5019849
2,3',5'-TriCB-(34)	ng/g	0.00021 U	0.00021	0.010	N/A	N/A	N/A	N/A	5019849

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WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds
QC Batch = Quality Control Batch
N/A = Not Applicable
(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY575							
Sampling Date		2017/04/27 12:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-MUS-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'4'-TriCB-(35)	ng/g	0.00049 U (1)	0.00049	0.010	N/A	N/A	N/A	N/A	5019849
33'5'-TriCB-(36)	ng/g	0.00036 J	0.00017	0.010	N/A	N/A	N/A	N/A	5019849
344'-TriCB-(37)	ng/g	0.0011 U (1)	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
345'-TriCB-(38)	ng/g	0.00019 U	0.00019	0.010	N/A	N/A	N/A	N/A	5019849
34'5'-TriCB-(39)	ng/g	0.00019 U	0.00019	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(40)+(41)+(71)	ng/g	0.00462 J	0.00045	0.030	N/A	N/A	N/A	N/A	5019849
22'34'-TetraCB-(42)	ng/g	0.00247 J	0.00051	0.010	N/A	N/A	N/A	N/A	5019849
22'35'-TetraCB-(43)	ng/g	0.00063 U	0.00063	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(44)+(47)+(65)	ng/g	0.0176 J	0.00042	0.030	N/A	N/A	N/A	N/A	5019849
TetraCB-(45)+(51)	ng/g	0.0012 UQ (1)	0.0012	0.020	N/A	N/A	N/A	N/A	5019849
22'36'-TetraCB-(46)	ng/g	0.00056 U	0.00056	0.010	N/A	N/A	N/A	N/A	5019849
22'45'-TetraCB-(48)	ng/g	0.0018 U (1)	0.0018	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(49)+TetraCB-(69)	ng/g	0.00587 J	0.00040	0.020	N/A	N/A	N/A	N/A	5019849
TetraCB-(50)+(53)	ng/g	0.0012 U (1)	0.0012	0.020	N/A	N/A	N/A	N/A	5019849
22'55'-TetraCB-(52)	ng/g	0.0163 Q	0.00043	0.010	N/A	N/A	N/A	N/A	5019849
22'66'-TetraCB-(54)	ng/g	0.00025 U	0.00025	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-TetraCB-(55)	ng/g	0.00056 U	0.00056	0.010	N/A	N/A	N/A	N/A	5019849
233'4'-Tetra CB(56)	ng/g	0.00210 JQ	0.00054	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(57)	ng/g	0.00053 U	0.00053	0.010	N/A	N/A	N/A	N/A	5019849
233'5'-TetraCB-(58)	ng/g	0.00054 U	0.00054	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(59)+(62)+(75)	ng/g	0.00086 J	0.00035	0.030	N/A	N/A	N/A	N/A	5019849
2344'-TetraCB -(60)	ng/g	0.00192 J	0.00057	0.010	N/A	N/A	N/A	N/A	5019849
TetraCB-(61)+(70)+(74)+(76)	ng/g	0.0182 J	0.00055	0.040	N/A	N/A	N/A	N/A	5019849
234'5'-TetraCB-(63)	ng/g	0.00050 UQ	0.00050	0.010	N/A	N/A	N/A	N/A	5019849
234'6'-TetraCB-(64)	ng/g	0.00232 J	0.00037	0.010	N/A	N/A	N/A	N/A	5019849
23'44'-TetraCB-(66)	ng/g	0.00874 J	0.00053	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(67)	ng/g	0.00052 U	0.00052	0.010	N/A	N/A	N/A	N/A	5019849
23'45'-TetraCB-(68)	ng/g	0.00232 J	0.00052	0.010	N/A	N/A	N/A	N/A	5019849
23'55'-TetraCB-(72)	ng/g	0.00051 U	0.00051	0.010	N/A	N/A	N/A	N/A	5019849
23'5'6'-TetraCB-(73)	ng/g	0.00032 U	0.00032	0.010	N/A	N/A	N/A	N/A	5019849

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QC Batch = Quality Control Batch

N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY575							
Sampling Date		2017/04/27 12:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-MUS-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
33'44'-TetraCB-(77)	ng/g	0.00129 J	0.00070	0.010	N/A	0.000100	0.000000129	N/A	5019849
33'45'-TetraCB-(78)	ng/g	0.00050 U	0.00050	0.010	N/A	N/A	N/A	N/A	5019849
33'45'-TetraCB(79)	ng/g	0.00046 U	0.00046	0.010	N/A	N/A	N/A	N/A	5019849
33'55'-TetraCB-(80)	ng/g	0.00048 U	0.00048	0.010	N/A	N/A	N/A	N/A	5019849
344'5'-TetraCB-(81)	ng/g	0.00070 U	0.00070	0.010	N/A	0.000300	0.000000210	N/A	5019849
22'33'4-PentaCB-(82)	ng/g	0.0020 UQ (1)	0.0020	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(83)+(99)	ng/g	0.0316	0.00023	0.020	N/A	N/A	N/A	N/A	5019849
22'33'6-PentaCB-(84)	ng/g	0.00415 J	0.00027	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(85)+(116)+(117)	ng/g	0.00721 J	0.00019	0.030	N/A	N/A	N/A	N/A	5019849
PentaCB-(86)(87)(97)(109)(119)(125)	ng/g	0.0178 J	0.00019	0.060	N/A	N/A	N/A	N/A	5019849
PentaCB-(88)+(91)	ng/g	0.0020 U (1)	0.0020	0.020	N/A	N/A	N/A	N/A	5019849
22'346'-PentaCB-(89)	ng/g	0.00024 U	0.00024	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(90)+(101)+(113)	ng/g	0.0403	0.00020	0.030	N/A	N/A	N/A	N/A	5019849
22'355'-PentaCB-(92)	ng/g	0.00796 JQ	0.00023	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(93)+(98)+(100)+(102)	ng/g	0.00167 J	0.00023	0.040	N/A	N/A	N/A	N/A	5019849
22'356'-PentaCB-(94)	ng/g	0.00025 U	0.00025	0.010	N/A	N/A	N/A	N/A	5019849
22'35'6-PentaCB-(95)	ng/g	0.0192 Q	0.00022	0.010	N/A	N/A	N/A	N/A	5019849
22'366'-PentaCB-(96)	ng/g	0.00039 U	0.00039	0.010	N/A	N/A	N/A	N/A	5019849
22'45'6-PentaCB-(103)	ng/g	0.00040 U (1)	0.00040	0.010	N/A	N/A	N/A	N/A	5019849
22'466'-PentaCB-(104)	ng/g	0.00027 U	0.00027	0.010	N/A	N/A	N/A	N/A	5019849
233'44'-PentaCB-(105)	ng/g	0.0147	0.000098	0.010	N/A	0.0000300	0.000000441	N/A	5019849
233'45'-PentaCB-(106)	ng/g	0.000087 U	0.000087	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5-PentaCB-(107)	ng/g	0.00295 J	0.000073	0.010	N/A	N/A	N/A	N/A	5019849
PentaCB-(108)+(124)	ng/g	0.00124 J	0.000083	0.020	N/A	N/A	N/A	N/A	5019849
PentaCB-(110)+(115)	ng/g	0.0305	0.00018	0.020	N/A	N/A	N/A	N/A	5019849
233'55'-PentaCB-(111)	ng/g	0.00017 U	0.00017	0.010	N/A	N/A	N/A	N/A	5019849
233'56'-PentaCB-(112)	ng/g	0.00018 U	0.00018	0.010	N/A	N/A	N/A	N/A	5019849
2344'5-PentaCB-(114)	ng/g	0.00046 U (1)	0.00046	0.010	N/A	0.0000300	0.000000138	N/A	5019849
23'44'5-PentaCB-(118)	ng/g	0.0376	0.000098	0.010	N/A	0.0000300	0.00000113	N/A	5019849
23'455'-PentaCB-(120)	ng/g	0.00028 J	0.00016	0.010	N/A	N/A	N/A	N/A	5019849

EDL = Estimated Detection Limit

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TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,

The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY575							
Sampling Date		2017/04/27 12:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-MUS-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
23'45'6'-PentaCB-(121)	ng/g	0.00017 U	0.00017	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'-PentaCB-(122)	ng/g	0.000236 J	0.000086	0.010	N/A	N/A	N/A	N/A	5019849
23'44'5'-PentaCB-(123)	ng/g	0.00019 U (1)	0.00019	0.010	N/A	0.0000300	0.00000000570	N/A	5019849
33'44'5'-PentaCB-(126)	ng/g	0.00012 U (1)	0.00012	0.010	N/A	0.100	0.0000120	N/A	5019849
33'455'-PentaCB-(127)	ng/g	0.000077 U	0.000077	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(128)+(166)	ng/g	0.0124 J	0.00034	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(129)+(138)+(163)	ng/g	0.0971 Q	0.00036	0.030	N/A	N/A	N/A	N/A	5019849
22'33'45'-HexaCB-(130)	ng/g	0.00534 J	0.00043	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(131)	ng/g	0.00049 U	0.00049	0.010	N/A	N/A	N/A	N/A	5019849
22'33'46'-HexaCB-(132)	ng/g	0.0135	0.00044	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'-HexaCB-(133)	ng/g	0.00240 J	0.00040	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(134)+(143)	ng/g	0.00353 J	0.00044	0.020	N/A	N/A	N/A	N/A	5019849
HexaCB-(135)+(151)	ng/g	0.0273	0.00040	0.020	N/A	N/A	N/A	N/A	5019849
22'33'66'-HexaCB-(136)	ng/g	0.00633 J	0.00030	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'-HexaCB-(137)	ng/g	0.00144 J	0.00044	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(139)+(140)	ng/g	0.00183 J	0.00038	0.020	N/A	N/A	N/A	N/A	5019849
22'3455'-HexaCB-(141)	ng/g	0.00263 J	0.00041	0.010	N/A	N/A	N/A	N/A	5019849
22'3456'-HexaCB-(142)	ng/g	0.00043 U	0.00043	0.010	N/A	N/A	N/A	N/A	5019849
22'345'6'-HexaCB-(144)	ng/g	0.00293 J	0.00038	0.010	N/A	N/A	N/A	N/A	5019849
22'3466'-HexaCB-(145)	ng/g	0.00032 U	0.00032	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'-HexaCB-(146)	ng/g	0.0215 Q	0.00034	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(147)+(149)	ng/g	0.0663	0.00039	0.020	N/A	N/A	N/A	N/A	5019849
22'34'56'-HexaCB-(148)	ng/g	0.00039 U	0.00039	0.010	N/A	N/A	N/A	N/A	5019849
22'34'66'-HexaCB-(150)	ng/g	0.00032 U	0.00032	0.010	N/A	N/A	N/A	N/A	5019849
22'3566'-HexaCB-(152)	ng/g	0.00028 U	0.00028	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(153)+(168)	ng/g	0.129 B	0.00031	0.010	N/A	N/A	N/A	N/A	5019849
22'44'56'-HexaCB-(154)	ng/g	0.00288 J	0.00035	0.010	N/A	N/A	N/A	N/A	5019849
22'44'66'-HexaCB-(155)	ng/g	0.00021 U	0.00021	0.010	N/A	N/A	N/A	N/A	5019849
HexaCB-(156)+(157)	ng/g	0.00502 JQ	0.00027	0.020	N/A	0.0000300	0.000000151	N/A	5019849
233'44'6'-HexaCB-(158)	ng/g	0.00646 JQ	0.00028	0.010	N/A	N/A	N/A	N/A	5019849

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N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY575							
Sampling Date		2017/04/27 12:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-MUS-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
233'455'-HexaCB-(159)	ng/g	0.00023 U	0.00023	0.010	N/A	N/A	N/A	N/A	5019849
233'456'-HexaCB-(160)	ng/g	0.00033 U	0.00033	0.010	N/A	N/A	N/A	N/A	5019849
233'45'6'-HexaCB-(161)	ng/g	0.00030 U	0.00030	0.010	N/A	N/A	N/A	N/A	5019849
233'4'55'-HexaCB-(162)	ng/g	0.00040 U (1)	0.00040	0.010	N/A	N/A	N/A	N/A	5019849
233'4'5'6'-HexaCB-(164)	ng/g	0.00232 J	0.00028	0.010	N/A	N/A	N/A	N/A	5019849
233'55'6'-HexaCB-(165)	ng/g	0.00032 U	0.00032	0.010	N/A	N/A	N/A	N/A	5019849
23'44'55'-HexaCB-(167)	ng/g	0.00266 J	0.00026	0.010	N/A	0.0000300	0.0000000798	N/A	5019849
33'44'55'-HexaCB-(169)	ng/g	0.00027 U	0.00027	0.010	N/A	0.0300	0.00000810	N/A	5019849
22'33'44'5'-HeptaCB-(170)	ng/g	0.00389 JQ	0.00041	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(171)+(173)	ng/g	0.00457 J	0.00056	0.020	N/A	N/A	N/A	N/A	5019849
22'33'455'-HeptaCB-(172)	ng/g	0.00054 U	0.00054	0.010	N/A	N/A	N/A	N/A	5019849
22'33'456'-HeptaCB-(174)	ng/g	0.00181 J	0.00054	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(175)	ng/g	0.00070 U (1)	0.00070	0.010	N/A	N/A	N/A	N/A	5019849
22'33'466'-HeptaCB-(176)	ng/g	0.00216 J	0.00017	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'6'-HeptaCB-(177)	ng/g	0.00943 JQ	0.00055	0.010	N/A	N/A	N/A	N/A	5019849
22'33'55'6'-HeptaCB-(178)	ng/g	0.00674 JQ	0.00024	0.010	N/A	N/A	N/A	N/A	5019849
22'33'566'-HeptaCB-(179)	ng/g	0.00848 J	0.00016	0.010	N/A	N/A	N/A	N/A	5019849
HeptaCB-(180)+(193)	ng/g	0.0166 J	0.00042	0.020	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(181)	ng/g	0.00054 U	0.00054	0.010	N/A	N/A	N/A	N/A	5019849
22'344'56'-HeptaCB-(182)	ng/g	0.00023 U	0.00023	0.010	N/A	N/A	N/A	N/A	5019849
22'344'5'6'-HeptaCB-(183)	ng/g	0.0121 Q	0.00046	0.010	N/A	N/A	N/A	N/A	5019849
22'344'66'-HeptaCB-(184)	ng/g	0.00017 U	0.00017	0.010	N/A	N/A	N/A	N/A	5019849
22'3455'6'-HeptaCB-(185)	ng/g	0.00059 U	0.00059	0.010	N/A	N/A	N/A	N/A	5019849
22'34566'-HeptaCB-(186)	ng/g	0.00018 U	0.00018	0.010	N/A	N/A	N/A	N/A	5019849
22'34'55'6'-HeptaCB-(187)	ng/g	0.0418 Q	0.00022	0.010	N/A	N/A	N/A	N/A	5019849
22'34'566'-HeptaCB-(188)	ng/g	0.00032 J	0.00017	0.010	N/A	N/A	N/A	N/A	5019849
233'44'55'-HeptaCB-(189)	ng/g	0.00061 J	0.00030	0.010	N/A	0.0000300	0.0000000183	N/A	5019849
233'44'56'-HeptaCB-(190)	ng/g	0.00119 J	0.00039	0.010	N/A	N/A	N/A	N/A	5019849
233'44'5'6'-HeptaCB-(191)	ng/g	0.00039 U	0.00039	0.010	N/A	N/A	N/A	N/A	5019849
233'455'6'-HeptaCB-(192)	ng/g	0.00044 U	0.00044	0.010	N/A	N/A	N/A	N/A	5019849

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(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY575							
Sampling Date		2017/04/27 12:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-MUS-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
22'33'44'55'-OctaCB-(194)	ng/g	0.0013 U (1)	0.0013	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(195)	ng/g	0.00033 U (2)	0.00033	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'56'-OctaCB-(196)	ng/g	0.00096 U (2)	0.00096	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'66'-OctaCB-(197)	ng/g	0.00073 U (2)	0.00073	0.050	N/A	N/A	N/A	N/A	5019849
OctaCB-(198)+(199)	ng/g	0.0010 U (2)	0.0010	0.10	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(200)	ng/g	0.00078 U (2)	0.00078	0.050	N/A	N/A	N/A	N/A	5019849
22'33'45'66'-OctaCB-(201)	ng/g	0.0014 U (1)	0.0014	0.050	N/A	N/A	N/A	N/A	5019849
22'33'55'66'-OctaCB-(202)	ng/g	0.00651 J (2)	0.00077	0.050	N/A	N/A	N/A	N/A	5019849
22'344'55'6'-OctaCB-(203)	ng/g	0.00302 J (2)	0.00096	0.050	N/A	N/A	N/A	N/A	5019849
22'344'56'6'-OctaCB-(204)	ng/g	0.00075 U (2)	0.00075	0.050	N/A	N/A	N/A	N/A	5019849
233'44'55'6'-OctaCB-(205)	ng/g	0.00031 U (2)	0.00031	0.050	N/A	N/A	N/A	N/A	5019849
22'33'44'55'6'-NonaCB-(206)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
22'33'44'56'6'-NonaCB-(207)	ng/g	0.00092 U	0.00092	0.010	N/A	N/A	N/A	N/A	5019849
22'33'45'56'6'-NonaCB-(208)	ng/g	0.0011 U	0.0011	0.010	N/A	N/A	N/A	N/A	5019849
DecaCB-(209)	ng/g	0.00341 J	0.00049	0.010	N/A	N/A	N/A	N/A	5019849
Total PCB	ng/g	0.860	N/A	N/A	N/A	N/A	N/A	N/A	5019849
TOTAL TOXIC EQUIVALENCY	ng/g	N/A	N/A	N/A	N/A	N/A	0.0000223	N/A	N/A
Surrogate Recovery (%)									
C13-2,44'-TriCB-(28)	%	81	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'55'6'-NonaCB-(206)	%	88	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'44'5'-HeptaCB-(170)	%	134 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'45'56'6'-NonaCB-(208)	%	118	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'66'-OctaCB-(202)	%	97 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'33'55'6'-HeptaCB-(178)	%	96	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'344'55'-HeptaCB-(180)	%	141 Q	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'34'56'6'-HeptaCB-(188)	%	116	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'44'66'-HexaCB-(155)	%	114	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'46'6'-PentaCB-(104)	%	85	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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N/A = Not Applicable

(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

from 5x dilution

(2) from 5x dilution

SEMI-VOLATILE ORGANICS BY HRMS (TISSUE)

Maxxam ID		EIY575							
Sampling Date		2017/04/27 12:30							
COC Number		na				TOXIC EQUIVALENCY		# of	
	UNITS	PG-PJ-MUS-COC-170427	EDL	RDL	MDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
C13-22'66'-TetraCB-(54)	%	67	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'6-TriCB-(19)	%	61	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-22'-DiCB-(4)	%	49	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'6-OctaCB-(205)	%	95	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'55'-HeptaCB-(189)	%	110	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'44'-PentaCB-(105)	%	93	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-233'55'-PentaCB-(111)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'55'-HexaCB-(167)	%	81	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2344'5-PentaCB-(114)	%	101	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-23'44'5-PentaCB-(118)	%	104	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2'344'5-PentaCB-(123)	%	103	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-2-MonoCB-(1)	%	46	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'55'-HexaCB-(169)	%	35	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'5-PentaCB-(126)	%	68	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-33'44'-TetraCB-(77)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'5-TetraCB-(81)	%	97	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-344'-TriCB-(37)	%	84	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-44'-DiCB-(15)	%	70	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-4-MonoCB-(3)	%	47	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-DecaCB-(209)	%	80	N/A	N/A	N/A	N/A	N/A	N/A	5019849
C13-HexaCB-(156)+(157)	%	79	N/A	N/A	N/A	N/A	N/A	N/A	5019849

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TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,

The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.

WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds

QC Batch = Quality Control Batch

N/A = Not Applicable

TEST SUMMARY

Maxxam ID: EIY560
Sample ID: PG-GP-OYS-COC-170424
Matrix: TISSUE

Collected: 2017/04/24
Shipped:
Received: 2017/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	5019849	2017/05/30	2017/06/09	Cathy Xu

Maxxam ID: EIY561
Sample ID: PG-GP-COC-COC-170424
Matrix: TISSUE

Collected: 2017/04/24
Shipped:
Received: 2017/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	5019849	2017/05/30	2017/06/09	Cathy Xu

Maxxam ID: EIY562
Sample ID: PG-GP-LTN-COC-170424
Matrix: TISSUE

Collected: 2017/04/24
Shipped:
Received: 2017/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	5019849	2017/05/30	2017/06/09	Cathy Xu

Maxxam ID: EIY563
Sample ID: PG-WS-OYS-COC-170424
Matrix: TISSUE

Collected: 2017/04/24
Shipped:
Received: 2017/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	5019849	2017/05/30	2017/06/09	Cathy Xu

Maxxam ID: EIY564
Sample ID: PG-WS-COC-COC-170425
Matrix: TISSUE

Collected: 2017/04/25
Shipped:
Received: 2017/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	5019849	2017/05/30	2017/06/08	Cathy Xu

Maxxam ID: EIY565
Sample ID: PG-WS-LTN-COC-170424
Matrix: TISSUE

Collected: 2017/04/24
Shipped:
Received: 2017/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	5019849	2017/05/30	2017/06/09	Cathy Xu

Maxxam ID: EIY565 Dup
Sample ID: PG-WS-LTN-COC-170424
Matrix: TISSUE

Collected: 2017/04/24
Shipped:
Received: 2017/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	5019849	2017/05/30	2017/06/09	Cathy Xu

TEST SUMMARY

Maxxam ID: EIY566
Sample ID: PG-WS-MAN-COC-170424
Matrix: TISSUE

Collected: 2017/04/24
Shipped:
Received: 2017/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	5019849	2017/05/30	2017/06/08	Cathy Xu

Maxxam ID: EIY567
Sample ID: PG-SMA3-GEO-COC-170426
Matrix: TISSUE

Collected: 2017/04/26
Shipped:
Received: 2017/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	5019849	2017/05/30	2017/06/08	Cathy Xu

Maxxam ID: EIY568
Sample ID: PG-SMA3-DUNM-COC-170426
Matrix: TISSUE

Collected: 2017/04/26
Shipped:
Received: 2017/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	5019849	2017/05/30	2017/06/08	Cathy Xu

Maxxam ID: EIY569
Sample ID: PG-SMA3-DUNH-COC-170426
Matrix: TISSUE

Collected: 2017/04/26
Shipped:
Received: 2017/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	5019849	2017/05/30	2017/06/09	Cathy Xu

Maxxam ID: EIY570
Sample ID: PG-PJ-OYS-COC-170427
Matrix: TISSUE

Collected: 2017/04/27
Shipped:
Received: 2017/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	5019849	2017/05/30	2017/06/09	Cathy Xu

Maxxam ID: EIY571
Sample ID: PG-PJ-COC-COC-170427
Matrix: TISSUE

Collected: 2017/04/27
Shipped:
Received: 2017/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	5019849	2017/05/30	2017/06/09	Cathy Xu

Maxxam ID: EIY572
Sample ID: PG-PJ-LTN-COC-170427
Matrix: TISSUE

Collected: 2017/04/27
Shipped:
Received: 2017/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	5019849	2017/05/30	2017/06/09	Cathy Xu

TEST SUMMARY

Maxxam ID: EIY573
Sample ID: PG-PJ-MAN-COC-170427
Matrix: TISSUE

Collected: 2017/04/27
Shipped:
Received: 2017/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	5019849	2017/05/30	2017/06/09	Cathy Xu

Maxxam ID: EIY574
Sample ID: PG-PJ-HC-COC-170428
Matrix: TISSUE

Collected: 2017/04/28
Shipped:
Received: 2017/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	5019849	2017/05/30	2017/06/09	Cathy Xu

Maxxam ID: EIY575
Sample ID: PG-PJ-MUS-COC-170427
Matrix: TISSUE

Collected: 2017/04/27
Shipped:
Received: 2017/05/10

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
PCB Congeners in Tissue (1668A)	HRMS/MS	5019849	2017/05/30	2017/06/09	Cathy Xu

GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.8°C
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PCBCONHR-S:
The result unit for Reference Material sample is ng/g.

Results relate only to the items tested.

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
5019849	CXU	Matrix Spike(EIY560)	C13-2,44'-TriCB-(28)	2017/06/08		75	%	40 - 125
			C13-22'33'44'55'6'-NonaCB-(206)	2017/06/08		84	%	30 - 140
			C13-22'33'44'5'-HeptaCB-(170)	2017/06/08		136	%	30 - 140
			C13-22'33'455'66'-NonaCB-(208)	2017/06/08		119	%	30 - 140
			C13-22'33'55'66'-OctaCB-(202)	2017/06/08		197	%	30 - 140
			C13-22'33'55'6'-HeptaCB-(178)	2017/06/08		96	%	40 - 125
			C13-22'344'55'-HeptaCB-(180)	2017/06/08		142	%	30 - 140
			C13-22'34'566'-HeptaCB-(188)	2017/06/08		99	%	30 - 140
			C13-22'44'66'-HexaCB-(155)	2017/06/08		101	%	30 - 140
			C13-22'466'-PentaCB-(104)	2017/06/08		88	%	30 - 140
			C13-22'66'-TetraCB-(54)	2017/06/08		60	%	30 - 140
			C13-22'6-TriCB-(19)	2017/06/08		54	%	30 - 140
			C13-22'-DiCB-(4)	2017/06/08		49	%	30 - 140
			C13-233'44'55'6'-OctaCB-(205)	2017/06/08		93	%	30 - 140
			C13-233'44'55'-HeptaCB-(189)	2017/06/08		105	%	30 - 140
			C13-233'44'-PentaCB-(105)	2017/06/08		90	%	30 - 140
			C13-233'55'-PentaCB-(111)	2017/06/08		97	%	40 - 125
			C13-23'44'55'-HexaCB-(167)	2017/06/08		73	%	30 - 140
			C13-2344'5'-PentaCB-(114)	2017/06/08		90	%	30 - 140
			C13-23'44'5'-PentaCB-(118)	2017/06/08		92	%	30 - 140
			C13-2'344'5'-PentaCB-(123)	2017/06/08		94	%	30 - 140
			C13-2-MonoCB-(1)	2017/06/08		44	%	15 - 140
			C13-33'44'55'-HexaCB-(169)	2017/06/08		31	%	30 - 140
			C13-33'44'5'-PentaCB-(126)	2017/06/08		78	%	30 - 140
			C13-33'44'-TetraCB-(77)	2017/06/08		83	%	30 - 140
			C13-344'5'-TetraCB-(81)	2017/06/08		84	%	30 - 140
			C13-344'-TriCB-(37)	2017/06/08		79	%	30 - 140
			C13-44'-DiCB-(15)	2017/06/08		68	%	30 - 140
			C13-4-MonoCB-(3)	2017/06/08		46	%	15 - 140
			C13-DecaCB-(209)	2017/06/08		77	%	30 - 140
			C13-HexaCB-(156)+(157)	2017/06/08		63	%	30 - 140
			2-MonoCB-(1)	2017/06/08		100	%	50 - 150
			4-MonoCB-(3)	2017/06/08		95	%	50 - 150
			22'-DiCB-(4)	2017/06/08		95	%	50 - 150
			4,4'-DiCB-(15)	2017/06/08		97	%	50 - 150
			22'6-TriCB-(19)	2017/06/08		102	%	50 - 150
			235-TriCB-(23)	2017/06/08		89	%	50 - 150
			23'5'-TriCB-(34)	2017/06/08		85	%	50 - 150
			344'-TriCB-(37)	2017/06/08		97	%	50 - 150
			22'66'-TetraCB-(54)	2017/06/08		100	%	50 - 150
			33'44'-TetraCB-(77)	2017/06/08		95	%	50 - 150
			344'5'-TetraCB-(81)	2017/06/08		98	%	50 - 150
			PentaCB-(90)+(101)+(113)	2017/06/08		84	%	N/A
			22'466'-PentaCB-(104)	2017/06/08		97	%	50 - 150
			233'44'-PentaCB-(105)	2017/06/08		97	%	50 - 150
			2344'5'-PentaCB-(114)	2017/06/08		96	%	50 - 150
			23'44'5'-PentaCB-(118)	2017/06/08		94	%	50 - 150
			23'44'5'-PentaCB-(123)	2017/06/08		99	%	50 - 150
			33'44'5'-PentaCB-(126)	2017/06/08		95	%	50 - 150
			HexaCB-(128)+(166)	2017/06/08		107	%	N/A
			22'44'66'-HexaCB-(155)	2017/06/08		98	%	50 - 150
			HexaCB-(156)+(157)	2017/06/08		98	%	50 - 150
			23'44'55'-HexaCB-(167)	2017/06/08		96	%	50 - 150
			33'44'55'-HexaCB-(169)	2017/06/08		93	%	50 - 150
			22'33'44'5'-HeptaCB-(170)	2017/06/08		104	%	50 - 150

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			HeptaCB-(180)+(193)	2017/06/08		82	%	50 - 150
			22'344'56'-HeptaCB-(182)	2017/06/08		139	%	50 - 150
			22'34'55'6'-HeptaCB-(187)	2017/06/08		213	%	50 - 150
			22'34'566'-HeptaCB-(188)	2017/06/08		94	%	50 - 150
			233'44'55'-HeptaCB-(189)	2017/06/08		98	%	50 - 150
			22'33'55'66'-OctaCB-(202)	2017/06/08		94	%	50 - 150
			233'44'55'6'-OctaCB-(205)	2017/06/08		95	%	50 - 150
			22'33'44'55'6'-NonaCB-(206)	2017/06/08		94	%	50 - 150
			22'33'455'66'-NonaCB-(208)	2017/06/08		93	%	50 - 150
			DecaCB-(209)	2017/06/08		90	%	50 - 150
5019849	CXU	QC Standard	C13-2,44'-TriCB-(28)	2017/06/13		83	%	40 - 125
			C13-22'33'44'55'6'-NonaCB-(206)	2017/06/13		108	%	30 - 140
			C13-22'33'44'5'-HeptaCB-(170)	2017/06/13		91	%	30 - 140
			C13-22'33'455'66'-NonaCB-(208)	2017/06/13		99	%	30 - 140
			C13-22'33'55'66'-OctaCB-(202)	2017/06/13		94	%	30 - 140
			C13-22'33'55'6'-HeptaCB-(178)	2017/06/13		111	%	40 - 125
			C13-22'344'55'-HeptaCB-(180)	2017/06/13		88	%	30 - 140
			C13-22'34'566'-HeptaCB-(188)	2017/06/13		104	%	30 - 140
			C13-22'44'66'-HexaCB-(155)	2017/06/13		109	%	30 - 140
			C13-22'466'-PentaCB-(104)	2017/06/13		100	%	30 - 140
			C13-22'66'-TetraCB-(54)	2017/06/13		84	%	30 - 140
			C13-22'6-TriCB-(19)	2017/06/13		81	%	30 - 140
			C13-22'-DiCB-(4)	2017/06/13		60	%	30 - 140
			C13-233'44'55'6'-OctaCB-(205)	2017/06/13		97	%	30 - 140
			C13-233'44'55'-HeptaCB-(189)	2017/06/13		95	%	30 - 140
			C13-233'44'-PentaCB-(105)	2017/06/13		94	%	30 - 140
			C13-233'55'-PentaCB-(111)	2017/06/13		101	%	40 - 125
			C13-23'44'55'-HexaCB-(167)	2017/06/13		95	%	30 - 140
			C13-2344'5'-PentaCB-(114)	2017/06/13		96	%	30 - 140
			C13-23'44'5'-PentaCB-(118)	2017/06/13		98	%	30 - 140
			C13-2'344'5'-PentaCB-(123)	2017/06/13		93	%	30 - 140
			C13-2-MonoCB-(1)	2017/06/13		41	%	15 - 140
			C13-33'44'55'-HexaCB-(169)	2017/06/13		50	%	30 - 140
			C13-33'44'5'-PentaCB-(126)	2017/06/13		84	%	30 - 140
			C13-33'44'-TetraCB-(77)	2017/06/13		92	%	30 - 140
			C13-344'5'-TetraCB-(81)	2017/06/13		88	%	30 - 140
			C13-344'-TriCB-(37)	2017/06/13		80	%	30 - 140
			C13-44'-DiCB-(15)	2017/06/13		74	%	30 - 140
			C13-4-MonoCB-(3)	2017/06/13		49	%	15 - 140
			C13-DecaCB-(209)	2017/06/13		100	%	30 - 140
			C13-HexaCB-(156)+(157)	2017/06/13		94	%	30 - 140
			2,4'-DiCB-(8)	2017/06/13		0	%	50 - 150
			TriCB-(20) + (28)	2017/06/13		14	%	N/A
			24'5'-TriCB-(31)	2017/06/13		8.7	%	50 - 150
			TetraCB-(44)+(47)+(65)	2017/06/13		33	%	N/A
			TetraCB-(45)+(51)	2017/06/13		1.1	%	50 - 150
			TetraCB-(49)+TetraCB-(69)	2017/06/13		22	%	N/A
			22'55'-TetraCB-(52)	2017/06/13		35	%	50 - 150
			233'4'-Tetra CB(56)	2017/06/13		11	%	50 - 150
			TetraCB-(61)+(70)+(74)+(76)	2017/06/13		89	%	N/A
			234'5'-TetraCB-(63)	2017/06/13		3.9	%	50 - 150
			23'44'-TetraCB-(66)	2017/06/13		64	%	50 - 150
			22'33'4'-PentaCB-(82)	2017/06/13		2.2	%	50 - 150
			PentaCB-(83)+(99)	2017/06/13		92	%	N/A
			PentaCB-(86)(87)(97)(109)(119)(125)	2017/06/13		49	%	N/A

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			PentaCB-(90)+(101)+(113)	2017/06/13		91	%	N/A
			22'355'-PentaCB-(92)	2017/06/13		23	%	50 - 150
			22'35'6'-PentaCB-(95)	2017/06/13		29	%	50 - 150
			233'44'-PentaCB-(105)	2017/06/13		54	%	50 - 150
			233'4'5'-PentaCB-(107)	2017/06/13		15	%	N/A
			PentaCB-(110)+(115)	2017/06/13		102	%	N/A
			23'44'5'-PentaCB-(118)	2017/06/13		120	%	50 - 150
			HexaCB-(128)+(166)	2017/06/13		32	%	N/A
			HexaCB-(129)+(138)+(163)	2017/06/13		227	%	50 - 150
			22'33'46'-HexaCB-(132)	2017/06/13		23	%	N/A
			22'34'55'-HexaCB-(146)	2017/06/13		42	%	50 - 150
			HexaCB-(147)+(149)	2017/06/13		79	%	N/A
			HexaCB-(153)+(168)	2017/06/13		210	%	N/A
			HexaCB-(156)+(157)	2017/06/13		16	%	50 - 150
			233'44'6'-HexaCB-(158)	2017/06/13		11	%	50 - 150
			22'33'44'5'-HeptaCB-(170)	2017/06/13		26	%	50 - 150
			22'33'456'-HeptaCB-(174)	2017/06/13		15	%	N/A
			22'33'45'6'-HeptaCB-(177)	2017/06/13		15	%	50 - 150
			22'33'55'6'-HeptaCB-(178)	2017/06/13		9.4	%	50 - 150
			HeptaCB-(180)+(193)	2017/06/13		78	%	50 - 150
			22'344'5'6'-HeptaCB-(183)	2017/06/13		18	%	50 - 150
			22'34'55'6'-HeptaCB-(187)	2017/06/13		49	%	50 - 150
			233'44'55'-HeptaCB-(189)	2017/06/13		1.3	%	N/A
			22'33'44'55'-OctaCB-(194)	2017/06/13		14	%	N/A
			22'33'44'56'-OctaCB-(195)	2017/06/13		4.9	%	N/A
			22'33'44'55'6'-NonaCB-(206)	2017/06/13		4.9	%	N/A
5019849	CXU	Spiked Blank	C13-2,44'-TriCB-(28)	2017/06/08		71	%	40 - 125
			C13-22'33'44'55'6'-NonaCB-(206)	2017/06/08		83	%	30 - 140
			C13-22'33'44'5'-HeptaCB-(170)	2017/06/08		116	%	30 - 140
			C13-22'33'455'66'-NonaCB-(208)	2017/06/08		105	%	30 - 140
			C13-22'33'55'66'-OctaCB-(202)	2017/06/08		135	%	30 - 140
			C13-22'33'55'6'-HeptaCB-(178)	2017/06/08		95	%	40 - 125
			C13-22'344'55'-HeptaCB-(180)	2017/06/08		122	%	30 - 140
			C13-22'34'566'-HeptaCB-(188)	2017/06/08		108	%	30 - 140
			C13-22'44'66'-HexaCB-(155)	2017/06/08		102	%	30 - 140
			C13-22'466'-PentaCB-(104)	2017/06/08		85	%	30 - 140
			C13-22'66'-TetraCB-(54)	2017/06/08		64	%	30 - 140
			C13-22'6'-TriCB-(19)	2017/06/08		61	%	30 - 140
			C13-22'-DiCB-(4)	2017/06/08		57	%	30 - 140
			C13-233'44'55'6'-OctaCB-(205)	2017/06/08		91	%	30 - 140
			C13-233'44'55'-HeptaCB-(189)	2017/06/08		97	%	30 - 140
			C13-233'44'-PentaCB-(105)	2017/06/08		99	%	30 - 140
			C13-233'55'-PentaCB-(111)	2017/06/08		95	%	40 - 125
			C13-23'44'55'-HexaCB-(167)	2017/06/08		83	%	30 - 140
			C13-2344'5'-PentaCB-(114)	2017/06/08		99	%	30 - 140
			C13-23'44'5'-PentaCB-(118)	2017/06/08		100	%	30 - 140
			C13-2'344'5'-PentaCB-(123)	2017/06/08		101	%	30 - 140
			C13-2-MonoCB-(1)	2017/06/08		52	%	15 - 140
			C13-33'44'55'-HexaCB-(169)	2017/06/08		39	%	30 - 140
			C13-33'44'5'-PentaCB-(126)	2017/06/08		71	%	30 - 140
			C13-33'44'-TetraCB-(77)	2017/06/08		85	%	30 - 140
			C13-344'5'-TetraCB-(81)	2017/06/08		84	%	30 - 140
			C13-344'-TriCB-(37)	2017/06/08		77	%	30 - 140
			C13-44'-DiCB-(15)	2017/06/08		70	%	30 - 140
			C13-4-MonoCB-(3)	2017/06/08		52	%	15 - 140

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			C13-DecaCB-(209)	2017/06/08		78	%	30 - 140
			C13-HexaCB-(156)+(157)	2017/06/08		80	%	30 - 140
			2-MonoCB-(1)	2017/06/08		100	%	50 - 150
			4-MonoCB-(3)	2017/06/08		99	%	50 - 150
			22'-DiCB-(4)	2017/06/08		95	%	50 - 150
			4,4'-DiCB-(15)	2017/06/08		97	%	50 - 150
			22'6'-TriCB-(19)	2017/06/08		93	%	50 - 150
			235'-TriCB-(23)	2017/06/08		86	%	50 - 150
			23'5'-TriCB-(34)	2017/06/08		83	%	50 - 150
			344'-TriCB-(37)	2017/06/08		94	%	50 - 150
			22'66'-TetraCB-(54)	2017/06/08		99	%	50 - 150
			33'44'-TetraCB-(77)	2017/06/08		98	%	50 - 150
			344'5'-TetraCB-(81)	2017/06/08		95	%	50 - 150
			PentaCB-(90)+(101)+(113)	2017/06/08		81	%	N/A
			22'466'-PentaCB-(104)	2017/06/08		98	%	50 - 150
			233'44'-PentaCB-(105)	2017/06/08		95	%	50 - 150
			2344'5'-PentaCB-(114)	2017/06/08		93	%	50 - 150
			23'44'5'-PentaCB-(118)	2017/06/08		96	%	50 - 150
			23'44'5'-PentaCB-(123)	2017/06/08		84	%	50 - 150
			33'44'5'-PentaCB-(126)	2017/06/08		92	%	50 - 150
			HexaCB-(128)+(166)	2017/06/08		92	%	N/A
			22'44'66'-HexaCB-(155)	2017/06/08		95	%	50 - 150
			HexaCB-(156)+(157)	2017/06/08		98	%	50 - 150
			23'44'55'-HexaCB-(167)	2017/06/08		92	%	50 - 150
			33'44'55'-HexaCB-(169)	2017/06/08		94	%	50 - 150
			22'33'44'5'-HeptaCB-(170)	2017/06/08		94	%	50 - 150
			HeptaCB-(180)+(193)	2017/06/08		81	%	50 - 150
			22'344'56'-HeptaCB-(182)	2017/06/08		102	%	50 - 150
			22'34'55'6'-HeptaCB-(187)	2017/06/08		103	%	50 - 150
			22'34'566'-HeptaCB-(188)	2017/06/08		97	%	50 - 150
			233'44'55'-HeptaCB-(189)	2017/06/08		95	%	50 - 150
			22'33'55'66'-OctaCB-(202)	2017/06/08		94	%	50 - 150
			233'44'55'6'-OctaCB-(205)	2017/06/08		98	%	50 - 150
			22'33'44'55'6'-NonaCB-(206)	2017/06/08		101	%	50 - 150
			22'33'455'66'-NonaCB-(208)	2017/06/08		95	%	50 - 150
			DecaCB-(209)	2017/06/08		89	%	50 - 150
5019849	CXU	Spiked Blank DUP	C13-2,44'-TriCB-(28)	2017/06/08		80	%	40 - 125
			C13-22'33'44'55'6'-NonaCB-(206)	2017/06/08		102	%	30 - 140
			C13-22'33'44'5'-HeptaCB-(170)	2017/06/08		94	%	30 - 140
			C13-22'33'455'66'-NonaCB-(208)	2017/06/08		101	%	30 - 140
			C13-22'33'55'66'-OctaCB-(202)	2017/06/08		105	%	30 - 140
			C13-22'33'55'6'-HeptaCB-(178)	2017/06/08		101	%	40 - 125
			C13-22'344'55'-HeptaCB-(180)	2017/06/08		98	%	30 - 140
			C13-22'34'566'-HeptaCB-(188)	2017/06/08		100	%	30 - 140
			C13-22'44'66'-HexaCB-(155)	2017/06/08		111	%	30 - 140
			C13-22'466'-PentaCB-(104)	2017/06/08		93	%	30 - 140
			C13-22'66'-TetraCB-(54)	2017/06/08		76	%	30 - 140
			C13-22'6'-TriCB-(19)	2017/06/08		78	%	30 - 140
			C13-22'-DiCB-(4)	2017/06/08		73	%	30 - 140
			C13-233'44'55'6'-OctaCB-(205)	2017/06/08		102	%	30 - 140
			C13-233'44'55'-HeptaCB-(189)	2017/06/08		97	%	30 - 140
			C13-233'44'-PentaCB-(105)	2017/06/08		86	%	30 - 140
			C13-233'55'-PentaCB-(111)	2017/06/08		100	%	40 - 125
			C13-23'44'55'-HexaCB-(167)	2017/06/08		97	%	30 - 140
			C13-2344'5'-PentaCB-(114)	2017/06/08		83	%	30 - 140

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			C13-23'44'5-PentaCB-(118)	2017/06/08		86	%	30 - 140
			C13-2'344'5-PentaCB-(123)	2017/06/08		87	%	30 - 140
			C13-2-MonoCB-(1)	2017/06/08		69	%	15 - 140
			C13-33'44'55'-HexaCB-(169)	2017/06/08		54	%	30 - 140
			C13-33'44'5-PentaCB-(126)	2017/06/08		78	%	30 - 140
			C13-33'44'-TetraCB-(77)	2017/06/08		94	%	30 - 140
			C13-344'5-TetraCB-(81)	2017/06/08		93	%	30 - 140
			C13-344'-TriCB-(37)	2017/06/08		85	%	30 - 140
			C13-44'-DiCB-(15)	2017/06/08		82	%	30 - 140
			C13-4-MonoCB-(3)	2017/06/08		68	%	15 - 140
			C13-DecaCB-(209)	2017/06/08		101	%	30 - 140
			C13-HexaCB-(156)+(157)	2017/06/08		94	%	30 - 140
			2-MonoCB-(1)	2017/06/08		95	%	50 - 150
			4-MonoCB-(3)	2017/06/08		95	%	50 - 150
			22'-DiCB-(4)	2017/06/08		94	%	50 - 150
			4,4'-DiCB-(15)	2017/06/08		96	%	50 - 150
			22'6-TriCB-(19)	2017/06/08		91	%	50 - 150
			235-TriCB-(23)	2017/06/08		84	%	50 - 150
			23'5'-TriCB-(34)	2017/06/08		84	%	50 - 150
			344'-TriCB-(37)	2017/06/08		93	%	50 - 150
			22'66'-TetraCB-(54)	2017/06/08		96	%	50 - 150
			33'44'-TetraCB-(77)	2017/06/08		91	%	50 - 150
			344'5-TetraCB-(81)	2017/06/08		94	%	50 - 150
			PentaCB-(90)+(101)+(113)	2017/06/08		97	%	N/A
			22'466'-PentaCB-(104)	2017/06/08		93	%	50 - 150
			233'44'-PentaCB-(105)	2017/06/08		93	%	50 - 150
			2344'5-PentaCB-(114)	2017/06/08		96	%	50 - 150
			23'44'5-PentaCB-(118)	2017/06/08		96	%	50 - 150
			23'44'5'-PentaCB-(123)	2017/06/08		94	%	50 - 150
			33'44'5-PentaCB-(126)	2017/06/08		94	%	50 - 150
			HexaCB-(128)+(166)	2017/06/08		83	%	N/A
			22'44'66'-HexaCB-(155)	2017/06/08		96	%	50 - 150
			HexaCB-(156)+(157)	2017/06/08		93	%	50 - 150
			23'44'55'-HexaCB-(167)	2017/06/08		91	%	50 - 150
			33'44'55'-HexaCB-(169)	2017/06/08		91	%	50 - 150
			22'33'44'5-HeptaCB-(170)	2017/06/08		96	%	50 - 150
			HeptaCB-(180)+(193)	2017/06/08		80	%	50 - 150
			22'344'56'-HeptaCB-(182)	2017/06/08		98	%	50 - 150
			22'34'55'6-HeptaCB-(187)	2017/06/08		99	%	50 - 150
			22'34'566'-HeptaCB-(188)	2017/06/08		93	%	50 - 150
			233'44'55'-HeptaCB-(189)	2017/06/08		88	%	50 - 150
			22'33'55'66'-OctaCB-(202)	2017/06/08		92	%	50 - 150
			233'44'55'6-OctaCB-(205)	2017/06/08		95	%	50 - 150
			22'33'44'55'6-NonaCB-(206)	2017/06/08		92	%	50 - 150
			22'33'455'66'-NonaCB-(208)	2017/06/08		93	%	50 - 150
			DecaCB-(209)	2017/06/08		90	%	50 - 150
5019849	CXU	RPD	2-MonoCB-(1)	2017/06/08	5.1		%	30
			4-MonoCB-(3)	2017/06/08	4.1		%	30
			22'-DiCB-(4)	2017/06/08	1.1		%	30
			4,4'-DiCB-(15)	2017/06/08	1.0		%	30
			22'6-TriCB-(19)	2017/06/08	2.2		%	30
			235-TriCB-(23)	2017/06/08	2.4		%	30
			23'5'-TriCB-(34)	2017/06/08	1.2		%	30
			344'-TriCB-(37)	2017/06/08	1.1		%	30
			22'66'-TetraCB-(54)	2017/06/08	3.1		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			33'44'-TetraCB-(77)	2017/06/08	7.4		%	30
			344'5'-TetraCB-(81)	2017/06/08	1.1		%	30
			PentaCB-(90)+(101)+(113)	2017/06/08	18		%	30
			22'466'-PentaCB-(104)	2017/06/08	5.2		%	30
			233'44'-PentaCB-(105)	2017/06/08	2.1		%	30
			2344'5'-PentaCB-(114)	2017/06/08	3.2		%	30
			23'44'5'-PentaCB-(118)	2017/06/08	0		%	30
			23'44'5'-PentaCB-(123)	2017/06/08	11		%	30
			33'44'5'-PentaCB-(126)	2017/06/08	2.2		%	30
			HexaCB-(128)+(166)	2017/06/08	10		%	30
			22'44'66'-HexaCB-(155)	2017/06/08	1.0		%	30
			HexaCB-(156)+(157)	2017/06/08	5.2		%	30
			23'44'55'-HexaCB-(167)	2017/06/08	1.1		%	30
			33'44'55'-HexaCB-(169)	2017/06/08	3.2		%	30
			22'33'44'5'-HeptaCB-(170)	2017/06/08	2.1		%	30
			HeptaCB-(180)+(193)	2017/06/08	1.2		%	30
			22'344'56'-HeptaCB-(182)	2017/06/08	4.0		%	30
			22'34'55'6'-HeptaCB-(187)	2017/06/08	4.0		%	30
			22'34'566'-HeptaCB-(188)	2017/06/08	4.2		%	30
			233'44'55'-HeptaCB-(189)	2017/06/08	7.7		%	30
			22'33'55'66'-OctaCB-(202)	2017/06/08	2.2		%	30
			233'44'55'6'-OctaCB-(205)	2017/06/08	3.1		%	30
			22'33'44'55'6'-NonaCB-(206)	2017/06/08	9.3		%	30
			22'33'455'66'-NonaCB-(208)	2017/06/08	2.1		%	30
			DecaCB-(209)	2017/06/08	1.1		%	30
5019849	CXU	Method Blank	C13-2,44'-TriCB-(28)	2017/06/08		65	%	40 - 125
			C13-22'33'44'55'6'-NonaCB-(206)	2017/06/08		85	%	30 - 140
			C13-22'33'44'5'-HeptaCB-(170)	2017/06/08		142	%	30 - 140
			C13-22'33'455'66'-NonaCB-(208)	2017/06/08		114	%	30 - 140
			C13-22'33'55'66'-OctaCB-(202)	2017/06/08		214	%	30 - 140
			C13-22'33'55'6'-HeptaCB-(178)	2017/06/08		92	%	40 - 125
			C13-22'344'55'-HeptaCB-(180)	2017/06/08		150	%	30 - 140
			C13-22'34'566'-HeptaCB-(188)	2017/06/08		96	%	30 - 140
			C13-22'44'66'-HexaCB-(155)	2017/06/08		99	%	30 - 140
			C13-22'466'-PentaCB-(104)	2017/06/08		80	%	30 - 140
			C13-22'66'-TetraCB-(54)	2017/06/08		51	%	30 - 140
			C13-22'6'-TriCB-(19)	2017/06/08		48	%	30 - 140
			C13-22'-DiCB-(4)	2017/06/08		38	%	30 - 140
			C13-233'44'55'6'-OctaCB-(205)	2017/06/08		91	%	30 - 140
			C13-233'44'55'-HeptaCB-(189)	2017/06/08		107	%	30 - 140
			C13-233'44'-PentaCB-(105)	2017/06/08		90	%	30 - 140
			C13-233'55'-PentaCB-(111)	2017/06/08		92	%	40 - 125
			C13-23'44'55'-HexaCB-(167)	2017/06/08		81	%	30 - 140
			C13-2344'5'-PentaCB-(114)	2017/06/08		88	%	30 - 140
			C13-23'44'5'-PentaCB-(118)	2017/06/08		89	%	30 - 140
			C13-2'344'5'-PentaCB-(123)	2017/06/08		90	%	30 - 140
			C13-2-MonoCB-(1)	2017/06/08		36	%	15 - 140
			C13-33'44'55'-HexaCB-(169)	2017/06/08		32	%	30 - 140
			C13-33'44'5'-PentaCB-(126)	2017/06/08		79	%	30 - 140
			C13-33'44'-TetraCB-(77)	2017/06/08		80	%	30 - 140
			C13-344'5'-TetraCB-(81)	2017/06/08		79	%	30 - 140
			C13-344'-TriCB-(37)	2017/06/08		74	%	30 - 140
			C13-44'-DiCB-(15)	2017/06/08		60	%	30 - 140
			C13-4-MonoCB-(3)	2017/06/08		37	%	15 - 140
			C13-DecaCB-(209)	2017/06/08		74	%	30 - 140

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			C13-HexaCB-(156)+(157)	2017/06/08		68	%	30 - 140
			2-MonoCB-(1)	2017/06/08	0.012 U, EDL=0.012		ng/g	
			3-MonoCB-(2)	2017/06/08	0.011 U, EDL=0.011		ng/g	
			4-MonoCB-(3)	2017/06/08	0.012 U, EDL=0.012		ng/g	
			22'-DiCB-(4)	2017/06/08	0.034 U, EDL=0.034		ng/g	
			2,3-DiCB-(5)	2017/06/08	0.020 U, EDL=0.020		ng/g	
			2,3'-DiCB-(6)	2017/06/08	0.016 U, EDL=0.016		ng/g	
			2,4-DiCB-(7)	2017/06/08	0.017 U, EDL=0.017		ng/g	
			2,4'-DiCB-(8)	2017/06/08	0.023 U, EDL=0.023 (1)		ng/g	
			2,5-DiCB-(9)	2017/06/08	0.015 U, EDL=0.015		ng/g	
			2,6-DiCB-(10)	2017/06/08	0.033 U, EDL=0.033		ng/g	
			3,3'-DiCB-(11)	2017/06/08	0.165 J, EDL=0.016		ng/g	
			DiCB-(12)+(13)	2017/06/08	0.017 U, EDL=0.017		ng/g	
			3,5-DiCB-(14)	2017/06/08	0.015 U, EDL=0.015		ng/g	
			4,4'-DiCB-(15)	2017/06/08	0.025 U, EDL=0.025 (1)		ng/g	
			22'3-TriCB-(16)	2017/06/08	0.061 U, EDL=0.061		ng/g	
			22'4-TriCB-(17)	2017/06/08	0.053 U, EDL=0.053		ng/g	
			TriCB-(18)+(30)	2017/06/08	0.043 U, EDL=0.043		ng/g	
			22'6-TriCB-(19)	2017/06/08	0.043 U, EDL=0.043		ng/g	
			TriCB-(20) + (28)	2017/06/08	0.046 J, EDL=0.012		ng/g	
			TriCB-(21)+(33)	2017/06/08	0.012 U, EDL=0.012 (1)		ng/g	
			234'-TriCB-(22)	2017/06/08	0.015 J, EDL=0.013		ng/g	
			235-TriCB-(23)	2017/06/08	0.013 U, EDL=0.013		ng/g	
			236-TriCB-(24)	2017/06/08	0.040 U, EDL=0.040		ng/g	
			23'4-TriCB-(25)	2017/06/08	0.012 U, EDL=0.012		ng/g	
			TriCB-(26)+(29)	2017/06/08	0.012 U, EDL=0.012		ng/g	
			23'6-TriCB-(27)	2017/06/08	0.038 U, EDL=0.038		ng/g	
			24'5-TriCB-(31)	2017/06/08	0.011 U, EDL=0.011 (1)		ng/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			24'6-TriCB-(32)	2017/06/08	0.034 U, EDL=0.034		ng/g	
			23'5'-TriCB-(34)	2017/06/08	0.012 U, EDL=0.012		ng/g	
			33'4-TriCB-(35)	2017/06/08	0.012 U, EDL=0.012		ng/g	
			33'5-TriCB-(36)	2017/06/08	0.011 U, EDL=0.011		ng/g	
			344'-TriCB-(37)	2017/06/08	0.018 U, EDL=0.018		ng/g	
			345-TriCB-(38)	2017/06/08	0.012 U, EDL=0.012		ng/g	
			34'5-TriCB-(39)	2017/06/08	0.012 U, EDL=0.012		ng/g	
			TetraCB-(40)+(41)+(71)	2017/06/08	0.016 U, EDL=0.016		ng/g	
			22'34'-TetraCB-(42)	2017/06/08	0.019 U, EDL=0.019		ng/g	
			22'35-TetraCB-(43)	2017/06/08	0.023 U, EDL=0.023		ng/g	
			TetraCB-(44)+(47)+(65)	2017/06/08	0.325 J, EDL=0.015		ng/g	
			TetraCB-(45)+(51)	2017/06/08	0.038 U, EDL=0.038 (1)		ng/g	
			22'36'-TetraCB-(46)	2017/06/08	0.019 U, EDL=0.019		ng/g	
			22'45-TetraCB-(48)	2017/06/08	0.016 U, EDL=0.016		ng/g	
			TetraCB-(49)+TetraCB-(69)	2017/06/08	0.028 U, EDL=0.028 (1)		ng/g	
			TetraCB-(50)+(53)	2017/06/08	0.016 U, EDL=0.016		ng/g	
			22'55'-TetraCB-(52)	2017/06/08	0.034 J, EDL=0.015		ng/g	
			22'66'-TetraCB-(54)	2017/06/08	0.022 U, EDL=0.022		ng/g	
			233'4-TetraCB-(55)	2017/06/08	0.012 U, EDL=0.012		ng/g	
			233'4'-Tetra CB(56)	2017/06/08	0.012 U, EDL=0.012		ng/g	
			233'5-TetraCB-(57)	2017/06/08	0.011 U, EDL=0.011		ng/g	
			233'5'-TetraCB-(58)	2017/06/08	0.012 U, EDL=0.012		ng/g	
			TetraCB-(59)+(62)+(75)	2017/06/08	0.012 U, EDL=0.012		ng/g	
			2344'-TetraCB -(60)	2017/06/08	0.012 U, EDL=0.012		ng/g	
			TetraCB-(61)+(70)+(74)+(76)	2017/06/08	0.081 J, EDL=0.011		ng/g	
			234'5-TetraCB-(63)	2017/06/08	0.011 U, EDL=0.011		ng/g	
			234'6-TetraCB-(64)	2017/06/08	0.013 U, EDL=0.013		ng/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			23'44'-TetraCB-(66)	2017/06/08	0.039 J, EDL=0.011		ng/g	
			23'45'-TetraCB-(67)	2017/06/08	0.011 U, EDL=0.011		ng/g	
			23'45'-TetraCB-(68)	2017/06/08	0.093 J, EDL=0.011		ng/g	
			23'55'-TetraCB-(72)	2017/06/08	0.011 U, EDL=0.011		ng/g	
			23'5'6'-TetraCB-(73)	2017/06/08	0.012 U, EDL=0.012		ng/g	
			33'44'-TetraCB-(77)	2017/06/08	0.015 U, EDL=0.015		ng/g	
			33'45'-TetraCB-(78)	2017/06/08	0.011 U, EDL=0.011		ng/g	
			33'45'-TetraCB(79)	2017/06/08	0.0099 U, EDL=0.0099		ng/g	
			33'55'-TetraCB-(80)	2017/06/08	0.010 U, EDL=0.010		ng/g	
			344'5'-TetraCB-(81)	2017/06/08	0.015 U, EDL=0.015		ng/g	
			22'33'4'-PentaCB-(82)	2017/06/08	0.024 U, EDL=0.024		ng/g	
			PentaCB-(83)+(99)	2017/06/08	0.085 U, EDL=0.085 (1)		ng/g	
			22'33'6'-PentaCB-(84)	2017/06/08	0.024 U, EDL=0.024		ng/g	
			PentaCB-(85)+(116)+(117)	2017/06/08	0.028 J, EDL=0.017		ng/g	
			PentaCB-(86)(87)(97)(109)(119)(125)	2017/06/08	0.035 U, EDL=0.035 (1)		ng/g	
			PentaCB-(88)+(91)	2017/06/08	0.021 U, EDL=0.021		ng/g	
			22'346'-PentaCB-(89)	2017/06/08	0.022 U, EDL=0.022		ng/g	
			PentaCB-(90)+(101)+(113)	2017/06/08	0.048 U, EDL=0.048 (1)		ng/g	
			22'355'-PentaCB-(92)	2017/06/08	0.021 U, EDL=0.021		ng/g	
			PentaCB-(93)+(98)+(100)+(102)	2017/06/08	0.022 U, EDL=0.022		ng/g	
			22'356'-PentaCB-(94)	2017/06/08	0.023 U, EDL=0.023		ng/g	
			22'35'6'-PentaCB-(95)	2017/06/08	0.023 U, EDL=0.023 (1)		ng/g	
			22'366'-PentaCB-(96)	2017/06/08	0.012 U, EDL=0.012		ng/g	
			22'45'6'-PentaCB-(103)	2017/06/08	0.019 U, EDL=0.019		ng/g	
			22'466'-PentaCB-(104)	2017/06/08	0.0083 U, EDL=0.0083		ng/g	
			233'44'-PentaCB-(105)	2017/06/08	0.053 J, EDL=0.017		ng/g	
			233'45'-PentaCB-(106)	2017/06/08	0.013 U, EDL=0.013		ng/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			233'4'5'-PentaCB-(107)	2017/06/08	0.014 U, EDL=0.014		ng/g	
			PentaCB-(108)+(124)	2017/06/08	0.014 U, EDL=0.014		ng/g	
			PentaCB-(110)+(115)	2017/06/08	0.048 J, EDL=0.017		ng/g	
			233'55'-PentaCB-(111)	2017/06/08	0.016 U, EDL=0.016		ng/g	
			233'56'-PentaCB-(112)	2017/06/08	0.017 U, EDL=0.017		ng/g	
			2344'5'-PentaCB-(114)	2017/06/08	0.017 U, EDL=0.017		ng/g	
			23'44'5'-PentaCB-(118)	2017/06/08	0.161 J, EDL=0.017		ng/g	
			23'455'-PentaCB-(120)	2017/06/08	0.015 U, EDL=0.015		ng/g	
			23'45'6'-PentaCB-(121)	2017/06/08	0.016 U, EDL=0.016		ng/g	
			233'4'5'-PentaCB-(122)	2017/06/08	0.015 U, EDL=0.015		ng/g	
			23'44'5'-PentaCB-(123)	2017/06/08	0.019 U, EDL=0.019		ng/g	
			33'44'5'-PentaCB-(126)	2017/06/08	0.016 U, EDL=0.016		ng/g	
			33'455'-PentaCB-(127)	2017/06/08	0.014 U, EDL=0.014		ng/g	
			HexaCB-(128)+(166)	2017/06/08	0.042 U, EDL=0.042		ng/g	
			HexaCB-(129)+(138)+(163)	2017/06/08	0.275 J, EDL=0.044		ng/g	
			22'33'45'-HexaCB-(130)	2017/06/08	0.053 U, EDL=0.053		ng/g	
			22'33'46'-HexaCB-(131)	2017/06/08	0.058 U, EDL=0.058		ng/g	
			22'33'46'-HexaCB-(132)	2017/06/08	0.055 U, EDL=0.055		ng/g	
			22'33'55'-HexaCB-(133)	2017/06/08	0.049 U, EDL=0.049		ng/g	
			HexaCB-(134)+(143)	2017/06/08	0.054 U, EDL=0.054		ng/g	
			HexaCB-(135)+(151)	2017/06/08	0.021 U, EDL=0.021		ng/g	
			22'33'66'-HexaCB-(136)	2017/06/08	0.015 U, EDL=0.015		ng/g	
			22'344'5'-HexaCB-(137)	2017/06/08	0.053 U, EDL=0.053		ng/g	
			HexaCB-(139)+(140)	2017/06/08	0.047 U, EDL=0.047		ng/g	
			22'3455'-HexaCB-(141)	2017/06/08	0.051 U, EDL=0.051		ng/g	
			22'3456'-HexaCB-(142)	2017/06/08	0.053 U, EDL=0.053		ng/g	
			22'345'6'-HexaCB-(144)	2017/06/08	0.020 U, EDL=0.020		ng/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			22'3466'-HexaCB-(145)	2017/06/08	0.016 U, EDL=0.016		ng/g	
			22'34'55'-HexaCB-(146)	2017/06/08	0.046 U, EDL=0.046		ng/g	
			HexaCB-(147)+(149)	2017/06/08	0.049 U, EDL=0.049 (1)		ng/g	
			22'34'56'-HexaCB-(148)	2017/06/08	0.020 U, EDL=0.020		ng/g	
			22'34'66'-HexaCB-(150)	2017/06/08	0.015 U, EDL=0.015		ng/g	
			22'3566'-HexaCB-(152)	2017/06/08	0.015 U, EDL=0.015		ng/g	
			HexaCB-(153)+(168)	2017/06/08	0.253 JB, EDL=0.038		ng/g	
			22'44'56'-HexaCB-(154)	2017/06/08	0.018 U, EDL=0.018		ng/g	
			22'44'66'-HexaCB-(155)	2017/06/08	0.011 U, EDL=0.011		ng/g	
			HexaCB-(156)+(157)	2017/06/08	0.027 U, EDL=0.027		ng/g	
			233'44'6'-HexaCB-(158)	2017/06/08	0.034 U, EDL=0.034		ng/g	
			233'455'-HexaCB-(159)	2017/06/08	0.024 U, EDL=0.024		ng/g	
			233'456'-HexaCB-(160)	2017/06/08	0.041 U, EDL=0.041		ng/g	
			233'45'6'-HexaCB-(161)	2017/06/08	0.034 U, EDL=0.034		ng/g	
			233'4'55'-HexaCB-(162)	2017/06/08	0.024 U, EDL=0.024		ng/g	
			233'4'5'6'-HexaCB-(164)	2017/06/08	0.035 U, EDL=0.035		ng/g	
			233'55'6'-HexaCB-(165)	2017/06/08	0.038 U, EDL=0.038		ng/g	
			23'44'55'-HexaCB-(167)	2017/06/08	0.026 U, EDL=0.026		ng/g	
			33'44'55'-HexaCB-(169)	2017/06/08	0.027 U, EDL=0.027		ng/g	
			22'33'44'5'-HeptaCB-(170)	2017/06/08	0.038 U, EDL=0.038		ng/g	
			HeptaCB-(171)+(173)	2017/06/08	0.051 U, EDL=0.051		ng/g	
			22'33'455'-HeptaCB-(172)	2017/06/08	0.051 U, EDL=0.051		ng/g	
			22'33'456'-HeptaCB-(174)	2017/06/08	0.050 U, EDL=0.050		ng/g	
			22'33'45'6'-HeptaCB-(175)	2017/06/08	0.029 U, EDL=0.029		ng/g	
			22'33'466'-HeptaCB-(176)	2017/06/08	0.022 U, EDL=0.022		ng/g	
			22'33'45'6'-HeptaCB-(177)	2017/06/08	0.051 U, EDL=0.051		ng/g	
			22'33'55'6'-HeptaCB-(178)	2017/06/08	0.030 U, EDL=0.030		ng/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			22'33'566'-HeptaCB-(179)	2017/06/08	0.021 U, EDL=0.021		ng/g	
			HeptaCB-(180)+(193)	2017/06/08	0.108 J, EDL=0.039		ng/g	
			22'344'56-HeptaCB-(181)	2017/06/08	0.050 U, EDL=0.050		ng/g	
			22'344'56'-HeptaCB-(182)	2017/06/08	0.029 U, EDL=0.029		ng/g	
			22'344'5'6-HeptaCB-(183)	2017/06/08	0.041 U, EDL=0.041		ng/g	
			22'344'66'-HeptaCB-(184)	2017/06/08	0.022 U, EDL=0.022		ng/g	
			22'3455'6-HeptaCB-(185)	2017/06/08	0.056 U, EDL=0.056		ng/g	
			22'34566'-HeptaCB-(186)	2017/06/08	0.024 U, EDL=0.024		ng/g	
			22'34'55'6-HeptaCB-(187)	2017/06/08	0.053 U, EDL=0.053 (1)		ng/g	
			22'34'566'-HeptaCB-(188)	2017/06/08	0.022 U, EDL=0.022		ng/g	
			233'44'55'-HeptaCB-(189)	2017/06/08	0.032 U, EDL=0.032		ng/g	
			233'44'56-HeptaCB-(190)	2017/06/08	0.037 U, EDL=0.037		ng/g	
			233'44'5'6-HeptaCB-(191)	2017/06/08	0.037 U, EDL=0.037		ng/g	
			233'455'6-HeptaCB-(192)	2017/06/08	0.042 U, EDL=0.042		ng/g	
			22'33'44'55'-OctaCB-(194)	2017/06/08	0.032 U, EDL=0.032		ng/g	
			22'33'44'56-OctaCB-(195)	2017/06/08	0.029 U, EDL=0.029		ng/g	
			22'33'44'56'-OctaCB-(196)	2017/06/08	0.045 U, EDL=0.045		ng/g	
			22'33'44'66'OctaCB-(197)	2017/06/08	0.038 U, EDL=0.038		ng/g	
			OctaCB-(198)+(199)	2017/06/08	0.047 U, EDL=0.047		ng/g	
			22'33'4566'-OctaCB-(200)	2017/06/08	0.033 U, EDL=0.033		ng/g	
			22'33'45'66'-OctaCB-(201)	2017/06/08	0.035 U, EDL=0.035		ng/g	
			22'33'55'66'-OctaCB-(202)	2017/06/08	0.038 U, EDL=0.038		ng/g	
			22'344'55'6-OctaCB-(203)	2017/06/08	0.043 U, EDL=0.043		ng/g	
			22'344'566'-OctaCB-(204)	2017/06/08	0.035 U, EDL=0.035		ng/g	
			233'44'55'6-OctaCB-(205)	2017/06/08	0.028 U, EDL=0.028		ng/g	
			22'33'44'55'6-NonaCB-(206)	2017/06/08	0.073 U, EDL=0.073		ng/g	
			22'33'44'566'-NonaCB-(207)	2017/06/08	0.059 U, EDL=0.059		ng/g	

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			22'33'455'66'-NonaCB-(208)	2017/06/08	0.071 U, EDL=0.071		ng/g	
			DecaCB-(209)	2017/06/08	0.051 U, EDL=0.051		ng/g	
5019849	CXU	RPD - Sample/Sample Dup	Total PCB	2017/06/08	1.72		ng/g	
			2-MonoCB-(1)	2017/06/09	0.73		%	30
			3-MonoCB-(2)	2017/06/09	0.73		%	30
			4-MonoCB-(3)	2017/06/09	0.73		%	30
			22'-DiCB-(4)	2017/06/09	0.73		%	30
			2,3-DiCB-(5)	2017/06/09	0.73		%	30
			2,3'-DiCB-(6)	2017/06/09	0.73		%	30
			2,4-DiCB-(7)	2017/06/09	0.73		%	30
			2,4'-DiCB-(8)	2017/06/09	0.73		%	30
			2,5-DiCB-(9)	2017/06/09	0.73		%	30
			2,6-DiCB-(10)	2017/06/09	0.73		%	30
			3,3'-DiCB-(11)	2017/06/09	0.73		%	30
			DiCB-(12)+(13)	2017/06/09	0.74		%	30
			3,5-DiCB-(14)	2017/06/09	0.73		%	30
			4,4'-DiCB-(15)	2017/06/09	0.73		%	30
			22'3-TriCB-(16)	2017/06/09	0.73		%	30
			22'4-TriCB-(17)	2017/06/09	0.73		%	30
			TriCB-(18)+(30)	2017/06/09	0.74		%	30
			22'6-TriCB-(19)	2017/06/09	0.73		%	30
			TriCB-(20) + (28)	2017/06/09	0.74		%	30
			TriCB-(21)+(33)	2017/06/09	0.74		%	30
			234'-TriCB-(22)	2017/06/09	0.73		%	30
			235-TriCB-(23)	2017/06/09	0.73		%	30
			236-TriCB-(24)	2017/06/09	0.73		%	30
			23'4-TriCB-(25)	2017/06/09	0.73		%	30
			TriCB-(26)+(29)	2017/06/09	0.74		%	30
			23'6-TriCB-(27)	2017/06/09	0.73		%	30
			24'5-TriCB-(31)	2017/06/09	0.73		%	30
			24'6-TriCB-(32)	2017/06/09	0.73		%	30
			23'5'-TriCB-(34)	2017/06/09	0.73		%	30
			33'4-TriCB-(35)	2017/06/09	0.73		%	30
			33'5-TriCB-(36)	2017/06/09	0.73		%	30
			344'-TriCB-(37)	2017/06/09	0.73		%	30
			345-TriCB-(38)	2017/06/09	0.73		%	30
			34'5-TriCB-(39)	2017/06/09	0.73		%	30
			TetraCB-(40)+(41)+(71)	2017/06/09	0.73 (1)		%	30
			22'34'-TetraCB-(42)	2017/06/09	0.73		%	30
			22'35-TetraCB-(43)	2017/06/09	0.73		%	30
			TetraCB-(44)+(47)+(65)	2017/06/09	0.73		%	30
			TetraCB-(45)+(51)	2017/06/09	0.74		%	30
			22'36'-TetraCB-(46)	2017/06/09	0.73		%	30
			22'45-TetraCB-(48)	2017/06/09	0.11		%	30
			TetraCB-(49)+TetraCB-(69)	2017/06/09	0.74		%	30
			TetraCB-(50)+(53)	2017/06/09	0.74		%	30
			22'55'-TetraCB-(52)	2017/06/09	3.6		%	30
			22'66'-TetraCB-(54)	2017/06/09	0.73		%	30
			233'4-TetraCB-(55)	2017/06/09	0.73		%	30
			233'4'-Tetra CB(56)	2017/06/09	0.73 (1)		%	30
			233'5-TetraCB-(57)	2017/06/09	0.73		%	30
			233'5'-TetraCB-(58)	2017/06/09	0.73		%	30
			TetraCB-(59)+(62)+(75)	2017/06/09	0.73		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			2344'-TetraCB -(60)	2017/06/09	0.73		%	30
			TetraCB-(61)+(70)+(74)+(76)	2017/06/09	0.74		%	30
			234'5-TetraCB-(63)	2017/06/09	0.73		%	30
			234'6-TetraCB-(64)	2017/06/09	0.73		%	30
			23'44'-TetraCB-(66)	2017/06/09	0.73		%	30
			23'45-TetraCB-(67)	2017/06/09	0.73		%	30
			23'45'-TetraCB-(68)	2017/06/09	0.73		%	30
			23'55'-TetraCB-(72)	2017/06/09	0.73		%	30
			23'5'6-TetraCB-(73)	2017/06/09	0.73		%	30
			33'44'-TetraCB-(77)	2017/06/09	0.73		%	30
			33'45-TetraCB-(78)	2017/06/09	0.73		%	30
			33'45'-TetraCB(79)	2017/06/09	0.73		%	30
			33'55'-TetraCB-(80)	2017/06/09	0.73		%	30
			344'5-TetraCB-(81)	2017/06/09	0.73		%	30
			22'33'4-PentaCB-(82)	2017/06/09	0.73		%	30
			PentaCB-(83)+(99)	2017/06/09	0.74		%	30
			22'33'6-PentaCB-(84)	2017/06/09	0.73		%	30
			PentaCB-(85)+(116)+(117)	2017/06/09	0.73		%	30
			PentaCB-(86)(87)(97)(109)(119)(125)	2017/06/09	0.74		%	30
			PentaCB-(88)+(91)	2017/06/09	0.74		%	30
			22'346'-PentaCB-(89)	2017/06/09	0.73		%	30
			PentaCB-(90)+(101)+(113)	2017/06/09	1.3		%	30
			22'355'-PentaCB-(92)	2017/06/09	0.73 (1)		%	30
			PentaCB-(93)+(98)+(100)+(102)	2017/06/09	0.74		%	30
			22'356'-PentaCB-(94)	2017/06/09	0.73		%	30
			22'35'6-PentaCB-(95)	2017/06/09	0.73 (1)		%	30
			22'366'-PentaCB-(96)	2017/06/09	0.73		%	30
			22'45'6-PentaCB-(103)	2017/06/09	0.73		%	30
			22'466'-PentaCB-(104)	2017/06/09	0.73		%	30
			233'44'-PentaCB-(105)	2017/06/09	0.73 (1)		%	30
			233'45-PentaCB-(106)	2017/06/09	0.73		%	30
			233'4'5-PentaCB-(107)	2017/06/09	0.73		%	30
			PentaCB-(108)+(124)	2017/06/09	0.74		%	30
			PentaCB-(110)+(115)	2017/06/09	0.74		%	30
			233'55'-PentaCB-(111)	2017/06/09	0.73		%	30
			233'56-PentaCB-(112)	2017/06/09	0.73		%	30
			2344'5-PentaCB-(114)	2017/06/09	0.73		%	30
			23'44'5-PentaCB-(118)	2017/06/09	0.73		%	30
			23'455'-PentaCB-(120)	2017/06/09	0.73		%	30
			23'45'6-PentaCB-(121)	2017/06/09	0.73		%	30
			233'4'5'-PentaCB-(122)	2017/06/09	0.73		%	30
			23'44'5'-PentaCB-(123)	2017/06/09	0.73		%	30
			33'44'5-PentaCB-(126)	2017/06/09	0.73		%	30
			33'455'-PentaCB-(127)	2017/06/09	0.73		%	30
			HexaCB-(128)+(166)	2017/06/09	0.74		%	30
			HexaCB-(129)+(138)+(163)	2017/06/09	0.73		%	30
			22'33'45'-HexaCB-(130)	2017/06/09	0.73		%	30
			22'33'46-HexaCB-(131)	2017/06/09	0.73		%	30
			22'33'46'-HexaCB-(132)	2017/06/09	0.73 (1)		%	30
			22'33'55'-HexaCB-(133)	2017/06/09	0.73		%	30
			HexaCB-(134)+(143)	2017/06/09	0.74		%	30
			HexaCB-(135)+(151)	2017/06/09	0.74		%	30
			22'33'66'-HexaCB-(136)	2017/06/09	0.73		%	30
			22'344'5-HexaCB-(137)	2017/06/09	0.73		%	30
			HexaCB-(139)+(140)	2017/06/09	0.74		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			22'3455'-HexaCB-(141)	2017/06/09	0.73		%	30
			22'3456'-HexaCB-(142)	2017/06/09	0.73		%	30
			22'345'6'-HexaCB-(144)	2017/06/09	0.73		%	30
			22'3466'-HexaCB-(145)	2017/06/09	0.73		%	30
			22'34'55'-HexaCB-(146)	2017/06/09	3.4 (1)		%	30
			HexaCB-(147)+(149)	2017/06/09	0.74		%	30
			22'34'56'-HexaCB-(148)	2017/06/09	0.73		%	30
			22'34'66'-HexaCB-(150)	2017/06/09	0.73		%	30
			22'3566'-HexaCB-(152)	2017/06/09	0.73		%	30
			HexaCB-(153)+(168)	2017/06/09	7.7		%	30
			22'44'56'-HexaCB-(154)	2017/06/09	0.73		%	30
			22'44'66'-HexaCB-(155)	2017/06/09	0.73		%	30
			HexaCB-(156)+(157)	2017/06/09	0.74		%	30
			233'44'6'-HexaCB-(158)	2017/06/09	0.73		%	30
			233'455'-HexaCB-(159)	2017/06/09	0.73		%	30
			233'456'-HexaCB-(160)	2017/06/09	0.73		%	30
			233'45'6'-HexaCB-(161)	2017/06/09	0.73		%	30
			233'4'55'-HexaCB-(162)	2017/06/09	0.73		%	30
			233'4'5'6'-HexaCB-(164)	2017/06/09	0.73		%	30
			233'55'6'-HexaCB-(165)	2017/06/09	0.73		%	30
			23'44'55'-HexaCB-(167)	2017/06/09	0.73		%	30
			33'44'55'-HexaCB-(169)	2017/06/09	0.73		%	30
			22'33'44'5'-HeptaCB-(170)	2017/06/09	0.73		%	30
			HeptaCB-(171)+(173)	2017/06/09	0.74		%	30
			22'33'455'-HeptaCB-(172)	2017/06/09	0.73		%	30
			22'33'456'-HeptaCB-(174)	2017/06/09	0.73		%	30
			22'33'45'6'-HeptaCB-(175)	2017/06/09	0.73		%	30
			22'33'466'-HeptaCB-(176)	2017/06/09	0.73		%	30
			22'33'45'6'-HeptaCB-(177)	2017/06/09	0.73		%	30
			22'33'55'6'-HeptaCB-(178)	2017/06/09	0.73		%	30
			22'33'566'-HeptaCB-(179)	2017/06/09	0.73		%	30
			HeptaCB-(180)+(193)	2017/06/09	0.74		%	30
			22'344'56'-HeptaCB-(181)	2017/06/09	0.73		%	30
			22'344'56'-HeptaCB-(182)	2017/06/09	0.73		%	30
			22'344'5'6'-HeptaCB-(183)	2017/06/09	0.73		%	30
			22'344'66'-HeptaCB-(184)	2017/06/09	0.73		%	30
			22'3455'6'-HeptaCB-(185)	2017/06/09	0.73		%	30
			22'34566'-HeptaCB-(186)	2017/06/09	0.73		%	30
			22'34'55'6'-HeptaCB-(187)	2017/06/09	6.1		%	30
			22'34'566'-HeptaCB-(188)	2017/06/09	0.73		%	30
			233'44'55'-HeptaCB-(189)	2017/06/09	0.73		%	30
			233'44'56'-HeptaCB-(190)	2017/06/09	0.73		%	30
			233'44'5'6'-HeptaCB-(191)	2017/06/09	0.73		%	30
			233'455'6'-HeptaCB-(192)	2017/06/09	0.73		%	30
			22'33'44'55'-OctaCB-(194)	2017/06/09	0.73 (2)		%	30
			22'33'44'56'-OctaCB-(195)	2017/06/09	0.73 (2)		%	30
			22'33'44'56'-OctaCB-(196)	2017/06/09	0.73 (2)		%	30
			22'33'44'66'-OctaCB-(197)	2017/06/09	0.73 (2)		%	30
			OctaCB-(198)+(199)	2017/06/09	0.74 (3)		%	30
			22'33'4566'-OctaCB-(200)	2017/06/09	0.73 (2)		%	30
			22'33'45'66'-OctaCB-(201)	2017/06/09	0.73 (2)		%	30
			22'33'55'66'-OctaCB-(202)	2017/06/09	0.73 (2)		%	30
			22'344'55'6'-OctaCB-(203)	2017/06/09	0.73 (2)		%	30
			22'344'566'-OctaCB-(204)	2017/06/09	0.73 (2)		%	30
			233'44'55'6'-OctaCB-(205)	2017/06/09	0.73		%	30

QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			22'33'44'55'6-NonaCB-(206)	2017/06/09	0.73 (1)		%	30
			22'33'44'566'-NonaCB-(207)	2017/06/09	0.73		%	30
			22'33'455'66'-NonaCB-(208)	2017/06/09	0.73		%	30
			DecaCB-(209)	2017/06/09	0.73		%	30
			Total PCB	2017/06/09	4.4		%	N/A

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

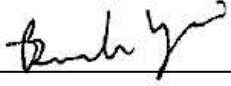
(1) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit.

(2) ** From 5X Dilution **

(3) EMPC / NDR - Peak detected does not meet ratio criteria and has resulted in an elevated detection limit. ** From 5X Dilution **

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Branko Vrzic, A.S.C.T., Senior Analyst, HRMS Services



Cathy Xu, Senior Analyst, HRMS Services, Senior Analyst, HRMS Services

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



3.0 Sample Custody

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: _____ Turn-around Requested: _____

ARI Client Company: Anchovy SEA Phone: 206-827-9130

Client Contact: Nathan Saccarsy

Client Project #: Port Sample Bay Swellfish Monitoring

Page: _____ of _____

Date: _____ Ice Present? _____

No. of Coolers: _____ Cooler Temps: _____

Analysis Requested: _____

Notes/Comments: _____

Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)
 www.arilabs.com

Sample ID	Date	Time	Matrix	No. Containers	PCB 1688 Congeners	10-May-17 16:04 Melissa DiGrazia B795167 SEL FZ-46	Requested by (Signature)	Requested by (Signature)	Received by (Signature)
Pg-GP-OYS-CCC-170424	4/24/17	1030	TISS	1	X				
Pg-GP-OYS-CCC-170424	4/24/17	1045	TISS	1	X				
Pg-GP-OYS-CCC-170424	4/24/17	1100	TISS	1	X				
Pg-GP-OYS-CCC-170424	4/24/17	1130	TISS	1	X				
Pg-WS-CCC-CCC-170424	4/24/17	1105	TISS	1	X				
Pg-WS-CCC-CCC-170424	4/24/17	1200	TISS	1	X				
Pg-WS-CCC-CCC-170424	4/24/17	1245	TISS	1	X				
Pg-SMA3-DMNW-CCC-170424	4/24/17	1300	TISS	1	X				
Pg-SMA3-DMNW-CCC-170424	4/24/17	1300	TISS	1	X				
Pg-SMA3-DMNW-CCC-170424	4/24/17	1315	TISS	1	X				
<p>Requested by: <u>Keenan Estroff</u> (Signature)</p> <p>Requested by: _____ (Signature)</p> <p>Received by: _____ (Signature)</p> <p>Printed Name: <u>Bethany Hall</u> (Printed Name)</p> <p>Company: <u>ARTI</u> (Company)</p> <p>Date & Time: <u>5/9/17 12:32</u> (Date & Time)</p>									

International Solid
 Heat Treat Required
 High Risk material
 Control/Storage and Disposal

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work order or contract.

20170510 16:04 20170510 16:04

Chain of Custody Record & Laboratory Analysis Request



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98168
 206-695-6200 206-695-6201 (fax)
 www.arilabs.com

ARI Assigned Number: _____ Turn-around Requested: _____
 ARI Client Company: Anchor OEA Phone: 206-287-9130
 Client Project Name: Nathan Secoursy
 Client Contact: Part Sammie Bay Shellfish Monitoring
 Client Project #: _____
 Samplers: _____

Page: _____ of _____
 Date: _____ Ice Present? _____
 No. of Coolers: _____ Cooler Temps: _____
 Analysis Requested: _____
 Notes/Comments: _____

Sample ID	Date	Time	Matrix	No. Containers	ROB Label Congeners	Received by (Signature) Printed Name	Date & Time	Received by (Signature) Printed Name	Date & Time	Notes/Comments
Rg-PJ-CYS-CC-170427	4/21/17	1300	TISS	1	X	LEAH CRIST				17E001A-01
Rg-PJ-CC-CC-170427	4/21/17	1245	TISS	1	X					17E001A-02
Rg-PJ-LTN-CC-170427	4/21/17	1330	TISS	1	X					17E001A-03
Rg-PJ-MAN-CC-170427	4/21/17	1200	TISS	1	X					17E001A-04
Rg-PJ-HC-CC-170427	4/21/17	1330	TISS	1	X					17E001A-05
Rg-PJ-MUS-CC-170427	4/21/17	1230	TISS	1	X					17E001A-06
Comments/Special Instructions	Requested by: <u>Brittney Hall</u> (Signature) Printed Name			Requested by: _____ (Signature) Printed Name			Requested by: _____ (Signature) Printed Name			
	Company: <u>ARI</u>			Company: _____			Company: _____			
	Date & Time: <u>5/19/17 12:32</u>			Date & Time: _____			Date & Time: _____			

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, notwithstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

2017 05/10 16:04 2.8/2.8/2.8

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number: _____ Turn-around Requested: _____

ARI Client Company: ANCHOR SEA Phone: 206-297-9136

Client Contact: NATHAN SOCCORSU

Client Project Name: PORT GARWARD BAY SMALLFISH MONITORING

Client Project #: _____

Samples: _____

Page: _____ of _____

Date: _____ Ice Present? _____

No. of Coolers: _____ Cooler Temps: _____

Analysis Requested: _____

Notes/Comments: _____



Analytical Resources, Incorporated
 Analytical Chemists and Consultants
 4611 South 134th Place, Suite 100
 Tukwila, WA 98148
 206-695-6200 206-695-6201 (fax)
 www.arilabs.com

Sample ID	Date	Time	Matrix	No. Containers	Weight	Ice Present?	Cooler Temps	Analysis Requested	Notes/Comments
RG-GP-OYS-CCC-170424	4/24/17	1030	TISS	1	50.22 gm				1700421-01
RG-GP-CCC-CCC-170424	4/24/17	1045	TISS	1	25.30 gm				1700421-02
RG-GP-LIN-CCC-170424	4/24/17	1100	TISS	1	50.02 gm				1700421-03
RG-WS-OYS-CCC-170424	4/24/17	1130	TISS	1	50.37 gm				1700421-04
RG-WS-CCC-CCC-170424	4/25/17	1100	TISS	1	30.82 gm				1700421-05
RG-WS-LIN-CCC-170424	4/24/17	1200	TISS	1	50.02 gm				1700421-06
RG-WS-MAN-CCC-170424	4/24/17	1245	TISS	1	50.09 gm				1700421-07
RG-WS-MAN-CCC-170424	4/24/17	1300	TISS	1	50.34 gm				1700421-08
RG-SMA3-DUWM-CC+170424	4/24/17	1300	TISS	1	50.86 gm				1700421-09
RG-SMA3-DUWM-CC+170424	4/24/17	1315	TISS	1	50.08 gm				1700421-10
Comments: Special Instructions									
Requested by (Signature) Printed Name: <u>Brittney Hall</u>	Received by (Signature) Printed Name: <u>Kurt E. Skovron</u>								
Company: <u>ARI</u>	Company: <u>ARI</u>								
Date & Time: <u>5/9/17 12:32</u>	Date & Time: _____								

Limits of Liability: ARI will perform all requested services in accordance with appropriate methodology following ARI Standard Operating Procedures and the ARI Quality Assurance Program. This program meets standards for the industry. The total liability of ARI, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ARI release ARI from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ARI and the Client.

Sample Retention Policy: All samples submitted to ARI will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

2.8 | 7.8 | 2.8

Chain of Custody Record & Laboratory Analysis Request

ARI Assigned Number:	Turn-around Requested:
ARI Client Company:	Phone:
Anchor GEA	206-389-9130
Client Contact:	
Nathan Succursy	
Client Project Name:	
Test Gamme Bay Swathish Monitoring	
Client Project #:	

Page:	of
Date:	For Present?
No. of Coolers:	Cooler Temps:

Analysis Requested	Notes/Comments

Sample ID	Date	Time	Matrix	No. Containers	ROB trace Congeners	Weight	Analysis Requested	Notes/Comments
RG-PJ-075-002-170409	4/21/17	1300	TSS	1	X	50.50 gm		17E001B-01
RG-PJ-002-002-170409	4/21/17	1245	TSS	1	X	50.67 gm		17E001B-02
RG-PJ-01N-002-170409	4/21/17	1330	TSS	1	X	50.37 gm		17E001B-03
RG-PJ-MAN-002-170409	4/21/17	1200	TSS	1	X	50.38 gm		17E001B-04
RG-PJ-HC-002-170409	4/21/17	1330	TSS	1	X	50.18 gm		17E001B-05
RG-PJ-MUS-002-170409	4/21/17	1230	TSS	1	X	50.35 gm		17E001B-06
Comments/Special Instructions	Requested by (Signature) Printed Name	Received by (Signature) Printed Name	Requested by (Signature) Printed Name	Company	Date & Time	Requested by (Signature) Printed Name	Company	Date & Time
	Requested by: Barthany Hells Printed Name: Barthany Hells Company: ART	Received by: Nathan Succursy Printed Name: Nathan Succursy	Requested by: Nathan Succursy Printed Name: Nathan Succursy		5/19/17 12:32			

Limit of Liability: ART will perform all requested services in accordance with appropriate methodology following ART Standard Operating Procedures and the ART Quality Assurance Program. This program meets standards for the industry. The total liability of ART, its officers, agents, employees, or successors, arising out of or in connection with the requested services, shall not exceed the invoiced amount for said services. The acceptance by the client of a proposal for services by ART release ART from any liability in excess thereof, not withstanding any provision to the contrary in any contract, purchase order or co-signed agreement between ART and the Client.

Sample Retention Policy: All samples submitted to ART will be appropriately discarded no sooner than 90 days after receipt or 60 days after submission of hardcopy data, whichever is longer, unless alternate retention schedules have been established by work-order or contract.

28128128



Analytical Resources, Incorporated
Analytical Chemists and Consultants
4611 South 134th Place, Suite 100
Tukwila, WA 98168
206-695-6200 206-695-6201 (fax)
www.artlabs.com



Method 1668, Revision A: Chlorinated Biphenyl Congeners in Water, Soil, Sediment, Tissue and Air by HRGC/HRMS

Maxxam Analytics International
6740 Campobello Rd.
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com



4.0 Initial Calibration Data

Maxxam Analytics International
6740 Campobello Rd
Mississauga, Ontario, Canada
L5N 2L8
1-800-668-0639
www.maxxamanalytics.com

M2170419A - PCB

File Name	File Text
M2170419A01	CS0.5_PCB 170406CXU
M2170419A02	CS1_PCB 170406CXU
M2170419A03	CS2_PCB 170406CXU
M2170419A04	CS3_PCB 170406CXU
M2170419A05	CS4_PCB 170406CXU
M2170419A06	CS5_PCB 170406CXU
M2170419A07	CS6_PCB 170406CXU
M2170419A08	Fv=20uL test
M2170419A09	CIL CS3 PCB PR-22535L
M2170419A10	209MIX_PCB 20170404CXU
M2170419A11	Congener Mix 2 Working 170406CXU
M2170419A12	Congener Mix 3 Working 170406CXU

M2170419A - 1668A - 6P4

M2170419A - 7P4 - 1668

17.05.15

Ca

INSTRUMENT: Ultima 2

CALIBRATION DATE: 2017/04/19

	M2170419A02 CS1	M2170419A03 CS2	M2170419A04 CS3	M2170419A05 CS4	M2170419A06 CS5	M2170419A07 CS6			
	Relative Response Factors						Mean RRF	RRF SD	%RSD
Natives									
PCB 1	0.988	1.067	1.112	1.184	1.097	1.125	1.095562	0.065	5.9%
PCB 3	0.995	1.054	1.093	1.150	1.149	1.172	1.102166	0.068	6.2%
PCB 4	0.902	0.955	1.041	1.127	1.118	1.122	1.044095	0.096	9.2%
PCB 15	0.850	0.924	0.999	1.051	1.036	1.047	0.984490	0.082	8.3%
PCB 19	0.876	0.908	1.014	1.067	1.074	1.082	1.003662	0.090	9.0%
PCB 37	0.829	0.870	0.966	1.026	1.040	1.021	0.958601	0.089	9.3%
PCB 54	0.744	0.827	0.943	1.006	1.019	1.021	0.926628	0.116	12.5%
PCB 81	0.919	0.954	1.030	1.110	1.115	1.134	1.043785	0.091	8.7%
PCB 77	0.869	0.932	1.025	1.100	1.114	1.129	1.028203	0.107	10.4%
PCB 104	0.879	0.932	1.067	1.160	1.174	1.168	1.063320	0.130	12.2%
PCB 123	0.805	0.819	0.914	0.995	1.001	0.994	0.921104	0.091	9.9%
PCB 118	0.917	0.926	1.011	1.096	1.117	1.122	1.031610	0.094	9.1%
PCB 114	0.928	0.927	1.013	1.095	1.117	1.116	1.032706	0.090	8.7%
PCB 105	0.930	0.888	0.982	1.084	1.103	1.108	1.015771	0.095	9.4%
PCB 126	1.021	0.997	1.060	1.162	1.181	1.208	1.105023	0.090	8.1%
PCB 155	0.807	0.848	0.971	1.061	1.087	1.078	0.975422	0.123	12.6%
PCB 167	0.956	0.990	1.084	1.197	1.204	1.199	1.104979	0.112	10.2%
PCB 156/157	0.923	0.945	1.034	1.113	1.136	1.122	1.045418	0.094	9.0%
PCB 169	0.916	0.924	1.005	1.097	1.141	1.141	1.037358	0.103	10.0%
PCB 188	0.846	0.881	1.004	1.097	1.110	1.131	1.011431	0.123	12.2%
PCB 180	0.911	0.950	1.059	1.171	1.208	1.228	1.087832	0.136	12.5%
PCB 170	1.112	1.133	1.265	1.396	1.462	1.480	1.308051	0.163	12.4%
PCB 189	0.849	0.829	0.898	0.987	1.008	1.006	0.929630	0.081	8.7%
PCB 202	0.835	0.869	0.970	1.070	1.102	1.122	0.994407	0.123	12.3%
PCB 205	0.910	0.957	1.048	1.136	1.172	1.202	1.070763	0.119	11.1%
PCB 208	0.844	0.848	1.082	1.134	1.143	1.143	1.003071	0.137	13.7%
PCB 206	0.838	0.846	0.928	1.065	1.116	1.128	0.986842	0.133	13.5%
PCB 209	0.849	0.824	0.908	1.017	1.058	1.077	0.955764	0.110	11.5%
Internal Standard									
PCB 1L	1.001	1.004	0.947	0.946	0.996	0.976	0.978436	0.026	2.7%
PCB 3L	0.998	0.997	0.952	0.963	1.007	0.980	0.982778	0.022	2.2%
PCB 4L	0.422	0.407	0.379	0.385	0.391	0.390	0.395769	0.016	4.0%
PCB 15L	1.047	1.069	1.050	1.089	1.111	1.122	1.081115	0.031	2.9%
PCB 19L	0.441	0.428	0.409	0.418	0.422	0.412	0.421758	0.012	2.8%
PCB 37L	1.929	1.944	1.995	2.133	2.190	2.242	2.072042	0.134	6.5%
PCB 54L	1.113	1.092	1.054	1.032	1.037	1.037	1.060971	0.034	3.2%
PCB 81L	1.452	1.467	1.457	1.604	1.668	1.658	1.550913	0.104	6.7%
PCB 77L	1.394	1.308	1.375	1.531	1.601	1.609	1.482990	0.110	7.4%
PCB 104L	1.163	1.166	1.174	1.102	1.121	1.111	1.139370	0.032	2.8%
PCB 123L	1.655	1.670	1.773	1.778	1.889	1.914	1.779789	0.107	6.0%
PCB 118L	1.597	1.596	1.690	1.734	1.802	1.805	1.703913	0.094	5.5%
PCB 114L	1.542	1.534	1.594	1.667	1.745	1.740	1.637151	0.095	5.8%
PCB 105L	1.509	1.504	1.614	1.646	1.737	1.716	1.621078	0.099	6.1%
PCB 126L	1.207	1.207	1.264	1.365	1.430	1.428	1.316878	0.104	7.9%
PCB 155L	1.457	1.445	1.352	1.352	1.346	1.343	1.382300	0.054	3.9%
PCB 167L	1.548	1.554	1.598	1.659	1.730	1.756	1.640855	0.089	5.4%
PCB 156L/157L	1.545	1.551	1.609	1.709	1.784	1.841	1.673082	0.124	7.4%
PCB 169L	1.239	1.230	1.263	1.395	1.422	1.491	1.340100	0.110	8.2%
PCB 188L	1.371	1.342	1.272	1.287	1.312	1.305	1.314835	0.036	2.8%
PCB 180L	1.307	1.287	1.276	1.290	1.308	1.258	1.287764	0.019	1.5%
PCB 170L	1.049	1.041	1.031	1.038	1.045	1.017	1.037012	0.012	1.1%
PCB 189L	1.830	1.773	1.827	1.846	1.903	1.940	1.853203	0.060	3.2%
PCB 202L	1.504	1.473	1.421	1.427	1.429	1.389	1.440385	0.041	2.8%
PCB 205L	1.454	1.455	1.416	1.477	1.532	1.498	1.472088	0.040	2.7%
PCB 208L	1.271	1.272	1.277	1.241	1.226	1.211	1.249561	0.028	2.2%
PCB 206L	0.912	0.930	0.909	0.899	0.914	0.908	0.912082	0.010	1.1%
PCB 209L	0.992	1.012	1.009	0.991	0.988	0.973	0.994434	0.014	1.4%
Cleanup Standard									
PCB 28L	2.413	2.405	2.484	2.514	2.581	2.595	2.498618	0.073	2.9%
PCB 111L	1.308	1.300	1.274	1.313	1.319	1.325	1.306623	0.018	1.4%
PCB 178L	0.825	0.806	0.788	0.796	0.800	0.782	0.799599	0.014	1.7%
Field Spike									
PCB 31L	2.317	2.346	2.389	2.380	2.499	2.454	2.397410	0.069	2.9%
PCB 95L	0.966	0.982	0.985	0.970	0.979	0.953	0.972637	0.008	0.8%
PCB 153L	1.226	1.224	1.208	1.229	1.233	1.217	1.222788	0.010	0.8%

Dataset: C:\MassLynx\Default.pro\QLD_PCB\M2\M2170419A_1668A_6PT.qld

Last Altered: May-15-17 11:57:40 AM Eastern Daylight Time
Printed: June-21-17 12:59:20 PM Eastern Daylight Time

Method: C:\MassLynx\Default.pro\Methdb\EPA 1668 6PT-20170419A.mdb 15 May 2017 11:57:17
Calibration: 15 May 2017 11:57:40

ID:
Date: 19-Apr-2017
Time: 10:32:00
Instrument:
Description: CS1_PCB 170406CXU

#	Name	RT	RRT	Area	Sec:Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
1	PCB 1	8.83	1.001	22064	6309	3.50	YES	bb	0.902	-9.8	90	29	0.988
2	PCB 3	10.01	1.001	21979	6458	3.40	YES	bd	0.902	-9.8	90	30	0.995
3	PCB 4	10.14	1.001	6644	4251	1.56	YES	bb	0.863	-13.7	86	31	0.901
4	PCB 15	12.72	1.001	15166	10317	1.47	YES	bb	0.863	-13.7	86	32	0.850
5	PCB 19	11.50	1.000	5702	5372	1.06	YES	bb	0.873	-12.7	87	33	0.876
6	PCB 37	16.38	1.001	9748	9264	1.05	YES	bb	0.864	-13.6	86	34	0.829
7	PCB 54	12.85	1.000	4244	5614	0.76	YES	bb	0.803	-19.7	80	35	0.744
8	PCB 81	21.04	1.002	6943	8931	0.78	YES	bb	0.881	-11.9	88	36	0.919
9	PCB 77	21.47	1.001	6330	8083	0.78	YES	bb	0.846	-15.4	85	37	0.869
10	PCB 104	15.65	1.000	6101	4130	1.48	YES	bb	0.827	-17.3	83	38	0.879
11	PCB 123	23.10	1.001	8155	5178	1.58	YES	bd	0.874	-12.6	87	39	0.805
12	PCB 118	23.40	1.002	9094	5573	1.63	YES	db	0.889	-11.1	89	40	0.917
13	PCB 114	23.86	1.001	8518	5807	1.47	YES	bb	0.899	-10.1	90	41	0.928
14	PCB 105	24.42	1.001	8816	5240	1.68	YES	bb	0.916	-8.4	92	42	0.930
15	PCB 126	27.26	1.001	7362	4983	1.48	YES	bb	0.924	-7.6	92	43	1.021
16	PCB 155	19.31	1.001	5704	4527	1.26	YES	bb	0.827	-17.3	83	44	0.807
17	PCB 167	29.10	1.001	7139	5735	1.25	YES	bb	0.865	-13.5	86	45	0.956
18	PCB 156/157	30.26	1.001	13663	11147	1.23	YES	bb	1.765	-11.7	88	46	0.923
19	PCB 169	33.63	1.001	5508	4368	1.26	YES	bb	0.883	-11.7	88	47	0.916
20	PCB 188	23.85	1.001	5156	4949	1.04	YES	bb	0.837	-16.3	84	48	0.846
21	PCB 193/180	31.69	1.000	4231	3979	1.06	YES	bb	0.837	-16.3	84	49	0.911
22	PCB 170	33.01	1.001	4267	3775	1.13	YES	bb	0.850	-15.0	85	50	1.112
23	PCB 189	36.40	1.001	5300	5415	0.98	YES	bb	0.914	-8.6	91	51	0.849
24	PCB 202	28.85	1.001	4047	4607	0.88	YES	bb	0.839	-16.1	84	52	0.835
25	PCB 205	39.28	1.001	4542	4583	0.99	YES	bb	0.850	-15.0	85	53	0.910
26	PCB 208	35.89	1.001	3332	4070	0.82	YES	bb	0.842	-15.8	84	54	0.844
27	PCB 206	41.29	1.000	2359	2911	0.81	YES	bb	0.849	-15.1	85	55	0.838
28	PCB 209	43.14	1.000	3117	2692	1.16	YES	bb	0.888	-11.2	89	56	0.849
29	PCB 1L	8.82	0.801	2200712	669684	3.29	YES	bb	102.356	2.4	102	63	1.001
30	PCB 3L	10.00	0.908	2189560	669638	3.27	YES	bd	101.507	1.5	102	63	0.998
31	PCB 4L	10.12	0.919	738799	469712	1.57	YES	bb	106.541	6.5	107	63	0.422
32	PCB 15L	12.70	1.153	1850830	1148681	1.61	YES	db	96.802	-3.2	97	63	1.047
33	PCB 19L	11.50	1.044	651016	613034	1.06	YES	bb	104.570	4.6	105	63	0.441
34	PCB 37L	16.36	1.085	1174575	1119926	1.05	YES	bb	93.088	-6.9	93	64	1.929
35	PCB 54L	12.85	0.852	589964	734489	0.80	YES	bb	104.939	4.9	105	64	1.113
36	PCB 81L	21.00	1.393	760711	966075	0.79	YES	bb	93.596	-6.4	94	64	1.452
37	PCB 77L	21.45	1.423	733274	924499	0.79	YES	bb	93.971	-6.0	94	64	1.394
38	PCB 104L	15.65	0.805	713168	450859	1.58	YES	bb	102.034	2.0	102	65	1.163
39	PCB 123L	23.09	1.188	1020882	636081	1.61	YES	bd	92.980	-7.0	93	65	1.655
40	PCB 118L	23.36	1.202	987705	611129	1.62	YES	db	93.714	-6.3	94	65	1.597
41	PCB 114L	23.85	1.227	957769	585778	1.63	YES	bb	94.163	-5.8	94	65	1.542
42	PCB 105L	24.40	1.256	936105	575035	1.63	YES	bb	93.100	-6.9	93	65	1.509
43	PCB 126L	27.24	1.402	748832	459982	1.63	YES	bb	91.677	-8.3	92	65	1.207
44	PCB 155L	19.29	0.737	706415	561627	1.26	YES	bb	105.397	5.4	105	66	1.457

Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD_PCB\M2\M2170419A_1668A_6PT.qld

Last Altered: May-15-17 11:57:40 AM Eastern Daylight Time

Printed: June-21-17 12:59:20 PM Eastern Daylight Time

ID:

Date: 19-Apr-2017

Time: 10:32:00

Instrument:

Description: CS1_PCB 170406CXU

#	Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
45	PCB 167L	29.06	1.111	759757	587341	1.29	YES	db	94.325	-5.7	94	66	1.548
46	PCB 156L/157L	30.22	1.155	1523884	1165250	1.31	YES	bb	184.668	-7.7	92	66	1.545
47	PCB 169L	33.60	1.284	605200	473080	1.28	YES	bb	92.447	-7.6	92	66	1.239
48	PCB 188L	23.83	0.911	612535	581145	1.05	YES	bb	104.307	4.3	104	66	1.371
49	PCB 180L	31.68	0.818	468729	432399	1.08	YES	bb	101.489	1.5	101	67	1.307
50	PCB 170L	32.97	0.851	372727	350754	1.06	YES	bb	101.184	1.2	101	67	1.049
51	PCB 189L	36.36	0.939	646299	615175	1.05	YES	bb	98.724	-1.3	99	67	1.830
52	PCB 202L	28.84	0.745	490535	546286	0.90	YES	bb	104.398	4.4	104	67	1.504
53	PCB 205L	39.26	1.014	483080	519627	0.93	YES	bb	98.789	-1.2	99	67	1.454
54	PCB 208L	35.87	0.926	379071	497608	0.76	YES	bb	101.754	1.8	102	67	1.271
55	PCB 206L	41.27	1.066	274441	354527	0.77	YES	bb	100.014	0.0	100	67	0.912
56	PCB 209L	43.12	1.113	372582	311714	1.20	YES	bb	99.801	-0.2	100	67	0.992
57	PCB 28L	14.14	0.938	1471963	1397937	1.05	YES	db	96.554	-3.4	97	64	2.413
58	PCB 111L	21.45	1.104	805365	504699	1.60	YES	bb	100.136	0.1	100	65	1.308
59	PCB 178L	26.58	1.016	370153	347999	1.06	YES	bb	103.191	3.2	103	66	0.825
60	PCB 31L	13.99	0.928	1413871	1342919	1.05	YES	bd	96.664	-3.3	97	64	2.317
61	PCB 95L	17.42	0.897	595195	371981	1.60	YES	bd	99.312	-0.7	99	65	0.966
62	PCB 153L	25.02	0.956	598653	468209	1.28	YES	bb	100.243	0.2	100	66	1.226
63	PCB 9L	11.01	0.000	1777047	1089072	1.63	YES	bb	157.122	57.1	157	0	28661...
64	PCB 52L	15.08	0.000	523387	666199	0.79	YES	bb	158.558	58.6	159	0	11895...
65	PCB 101L	19.43	0.000	619422	381852	1.62	YES	bb	157.674	57.7	158	0	10012...
66	PCB 138L	26.17	0.000	490816	379553	1.29	YES	bb	155.127	55.1	155	0	8703....
67	PCB 194L	38.72	0.000	328796	360702	0.91	YES	bb	149.486	49.5	149	0	6894....
68	Total MoCB F1								1.805			29	
69	Total MoCB labeled ...								203.863			63	
70	Total DiCB F1								0.863			31	
71	Total DiCB labeled F1								106.541			63	
72	Total DiCB F2								0.863			32	
73	Total DiCB labeled F2								253.924			63	
74	Total TriCB F2								0.873			33	
75	Total TriCB labeled F2								104.570			63	
76	Total TriCB F3								0.864			34	
77	Total TriCB labeled F3								286.307			64	
78	Total TeCB F2								0.803			35	
79	Total TeCB labeled F2								104.939			64	
80	Total TeCB F3											35	
81	Total TeCB labeled F3								158.558			64	
82	Total TeCB F4								1.726			36	
83	Total TeCB labeled F4								187.566			64	
84	Total PeCB F3								0.827			38	
85	Total PeCB labeled F3								102.034			65	
86	Total PeCB F4											39	
87	Total PeCB labeled F4								357.122			65	
88	Total PeCB F5								4.501			39	
89	Total PeCB labeled F5								465.633			65	
90	Total HxCB F4								0.827			44	
91	Total HxCB labeled F4								105.397			66	
92	Total HxCB F5											45	

Dataset: C:\MassLynx\Default.pro\QLD_PCB\M2\M2170419A_1668A_6PT.qld

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ID:

Date: 19-Apr-2017

Time: 10:32:00

Instrument:

Description: CS1_PCB 170406CXU

#	Name	RT	RRT	Area	Sec.Area	Ion Ratio	Ratio Flag	Flags	pg/ul	%Dev	%Rec	IS#	RRF
93	Total HxCB labeled F5								255.370			66	
94	Total HxCB F6								3.513			45	
95	Total HxCB labeled F6								371.440			66	
96	Total HpCB F5								0.837			48	
97	Total HpCB labeled F5								207.498			67	
98	Total HpCB F6								1.687			49	
99	Total HpCB labeled F6								202.672			67	
100	Total HpCB F7								0.914			51	
101	Total HpCB labeled F7								98.724			67	
102	Total OcCB F6								0.839			52	
103	Total OcCB labeled F6								104.398			67	
104	Total OcCB F7								0.850			53	
105	Total OcCB labeled F7								248.274			67	
106	Total NoCB F7								1.691			54	
107	Total NoCB labeled F7								201.768			67	
108	Total DeCB F7								0.888			56	
109	Total DeCB labeled F7								99.801			67	
110	lockmass F1											0	
111	lockmass F2											0	
112	lockmass F3											0	
113	lockmass F4											0	
114	lockmass F5											0	
115	lockmass F6											0	
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Dataset: C:\MassLynx\Default.pro\QLD_PCB\M2\M2170419A_1668A_6PT.qld

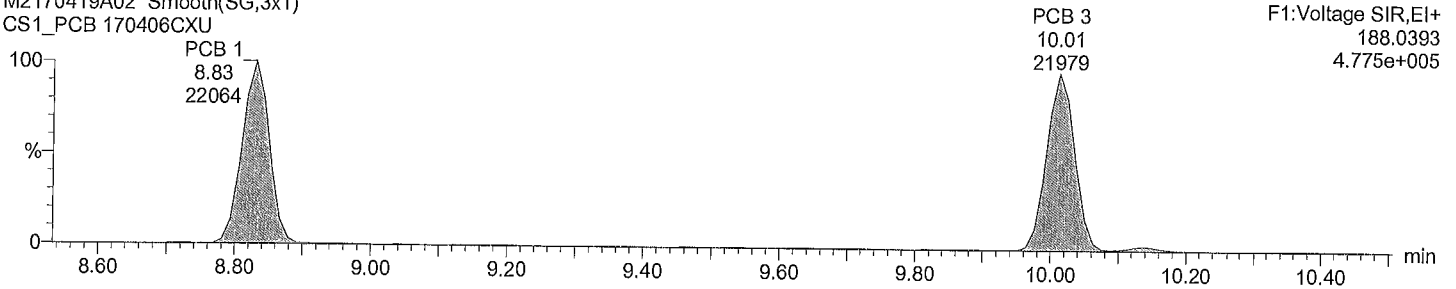
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Method: C:\MassLynx\Default.pro\Methdb\EPA 1668 6PT-20170419A.mdb 15 May 2017 11:57:17
Calibration: 15 May 2017 11:57:40

Description: CS1_PCB 170406CXU
Vial: 2
Date: 19-Apr-2017
Time: 10:32:00
Instrument:

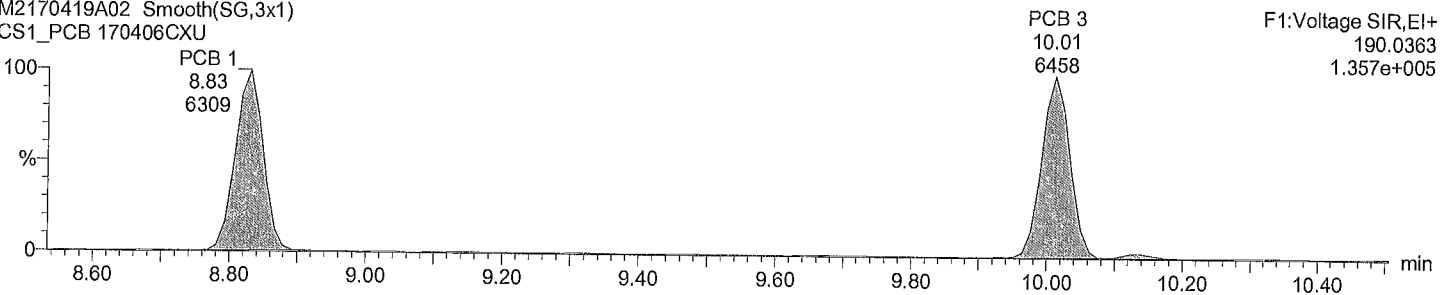
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M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



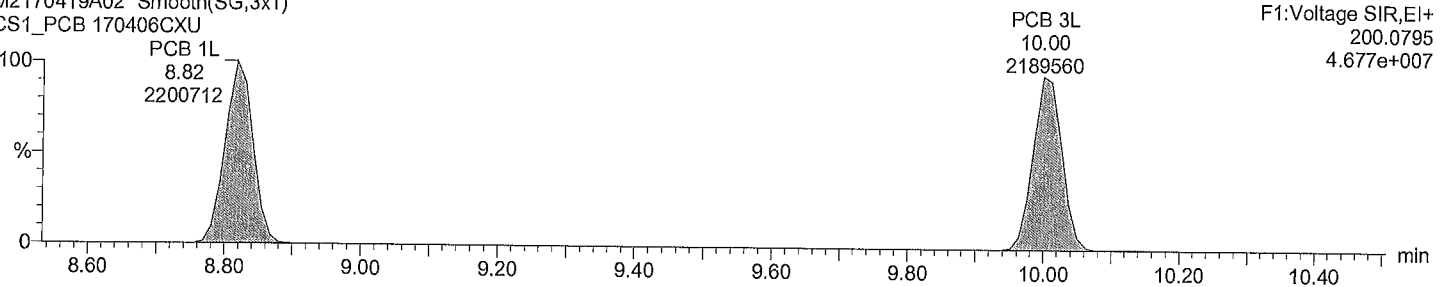
Total MoCB F1

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



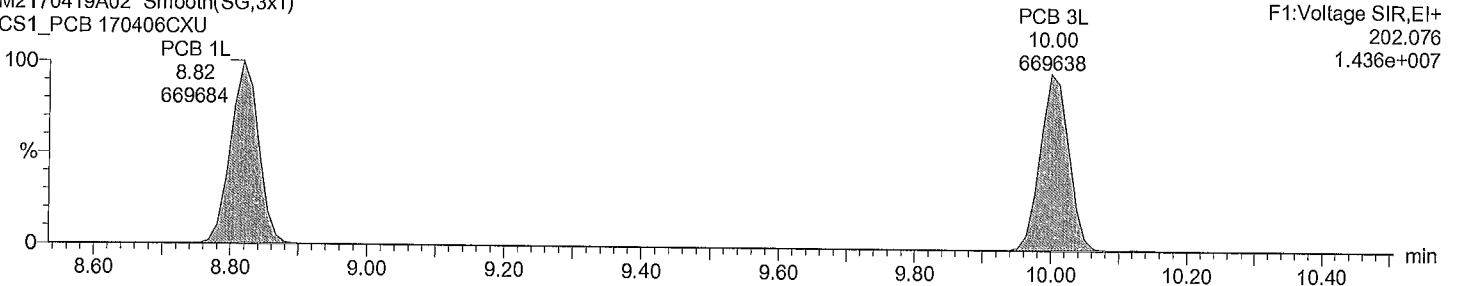
Total MoCB labeled F1

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



Total MoCB labeled F1

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



Dataset: C:\MassLynx\Default.pro\QLD_PCB\M2\M2170419A_1668A_6PT.qld

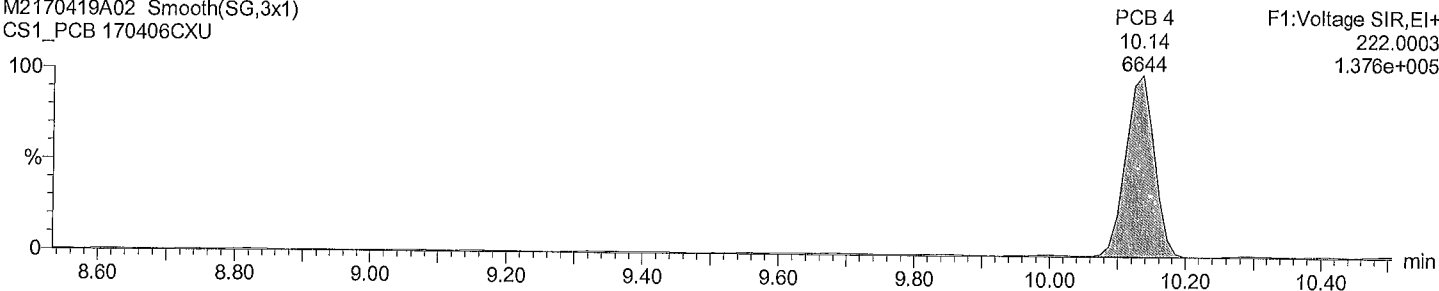
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Description: CS1_PCB 170406CXU

Vial: 2
Date: 19-Apr-2017
Time: 10:32:00
Instrument:

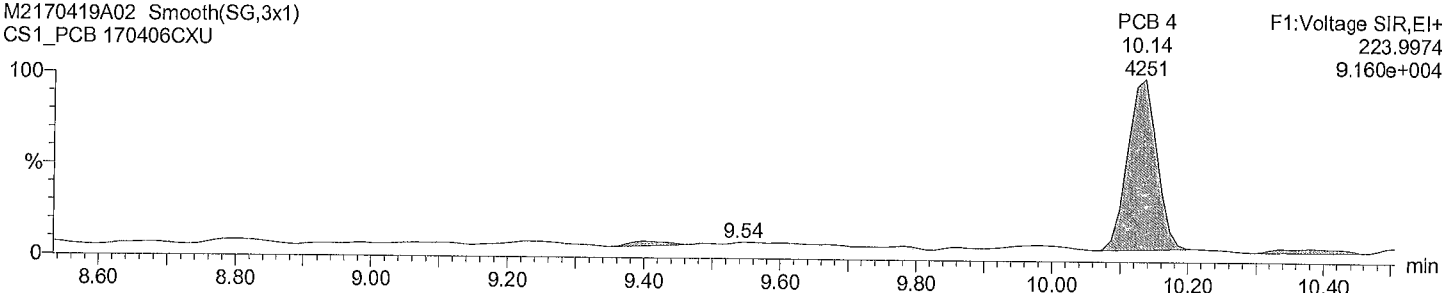
Total DiCB F1

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



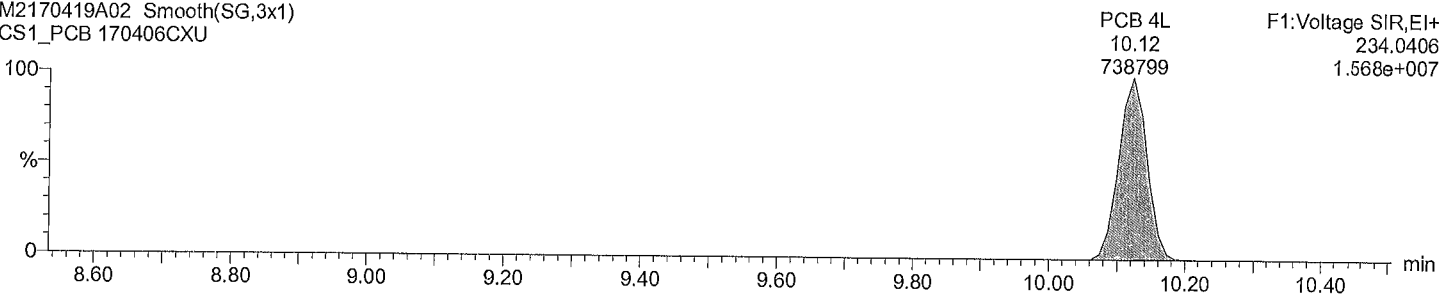
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M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



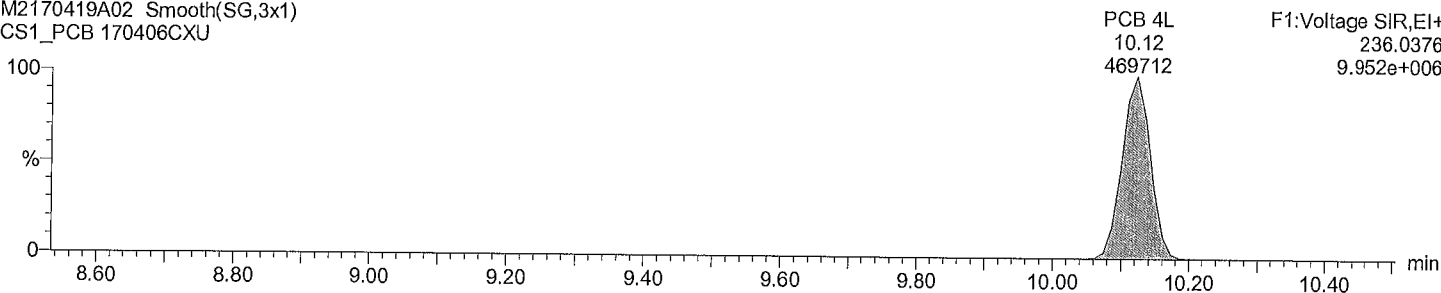
Total DiCB labeled F1

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



Total DiCB labeled F1

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



Dataset: C:\MassLynx\Default.pro\QLD_PCB\M2\M2170419A_1668A_6PT.qld

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Description: CS1_PCB 170406CXU

Vial: 2

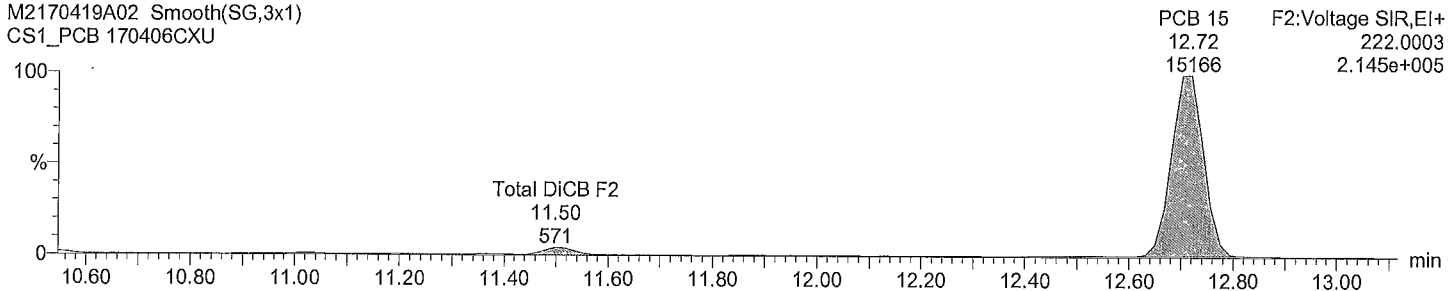
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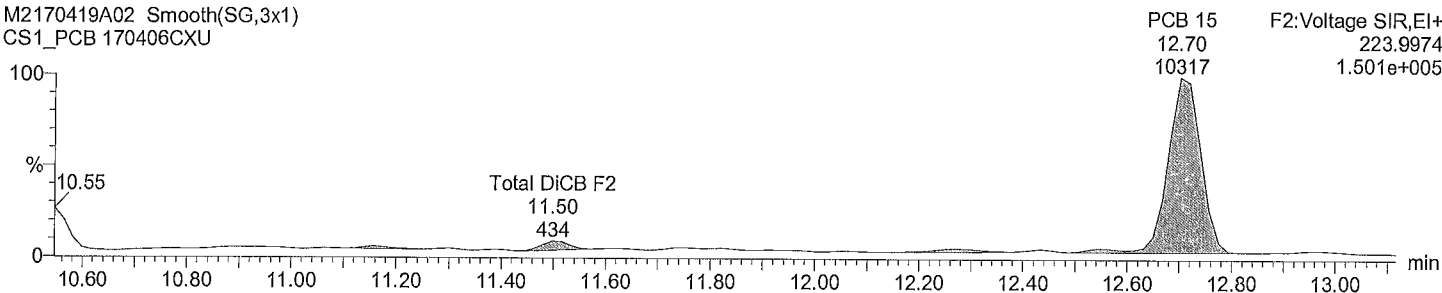
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M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



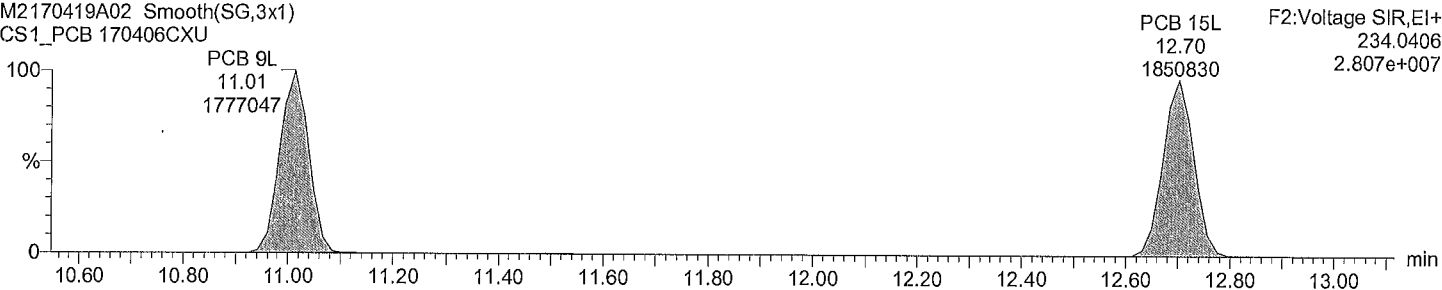
Total DiCB F2

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



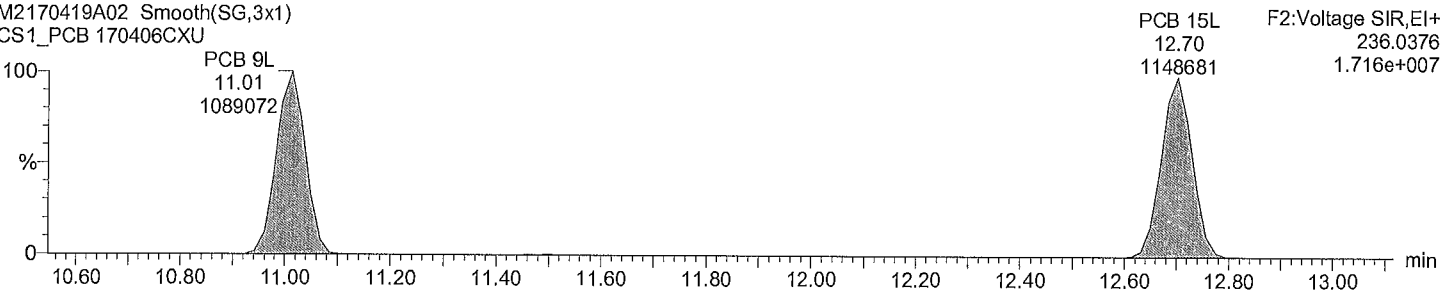
Total DiCB labeled F2

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



Total DiCB labeled F2

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



Dataset: C:\MassLynx\Default.pro\QLD_PCB\M2\M2170419A_1668A_6PT.qld

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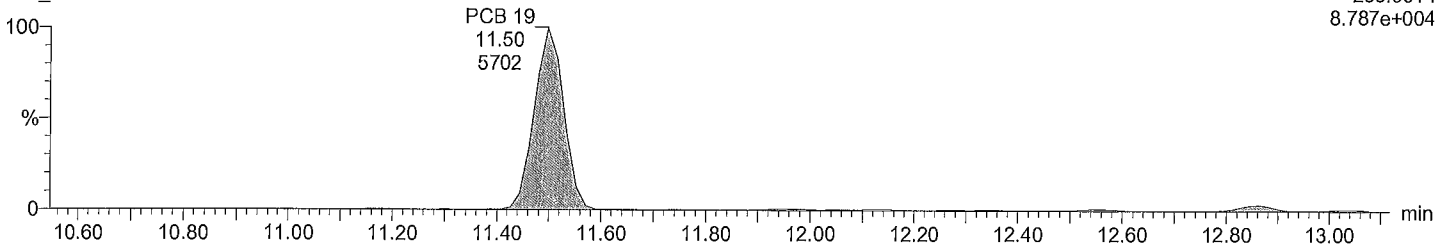
Description: CS1_PCB 170406CXU

Vial: 2
Date: 19-Apr-2017
Time: 10:32:00
Instrument:

Total TriCB F2

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

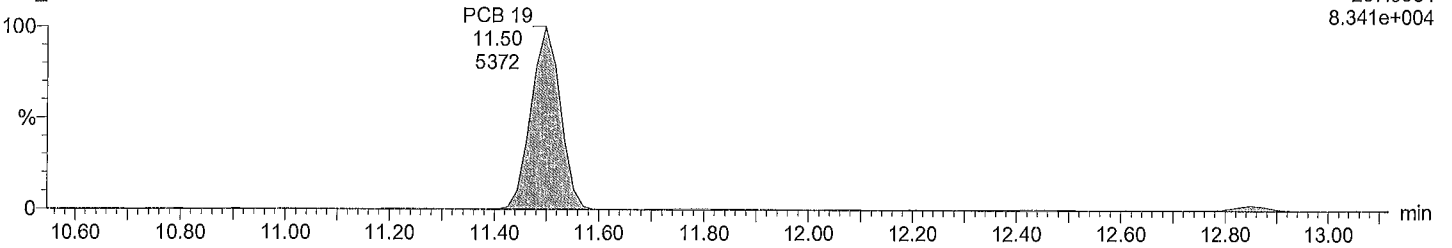
F2:Voltage SIR,EI+
255.9614
8.787e+004



Total TriCB F2

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

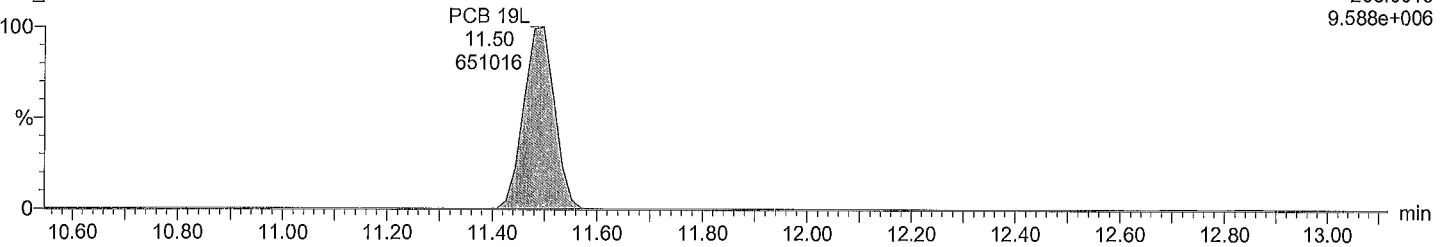
F2:Voltage SIR,EI+
257.9584
8.341e+004



Total TriCB labeled F2

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

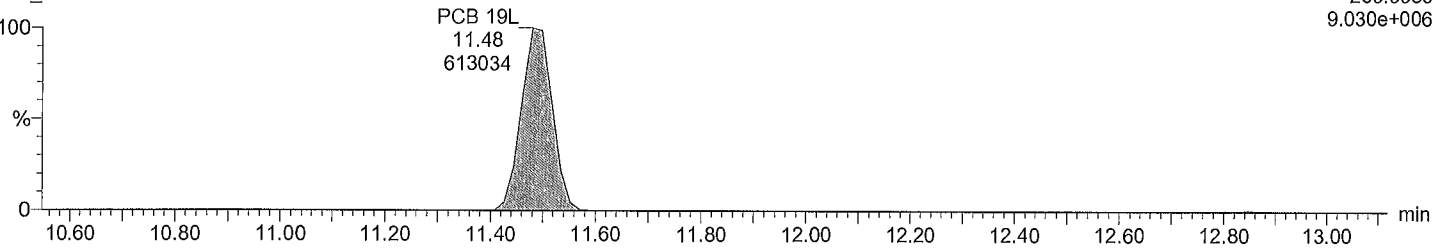
F2:Voltage SIR,EI+
268.0016
9.588e+006



Total TriCB labeled F2

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

F2:Voltage SIR,EI+
269.9986
9.030e+006



Dataset: C:\MassLynx\Default.pro\QLD_PCB\M2\M2170419A_1668A_6PT.qld

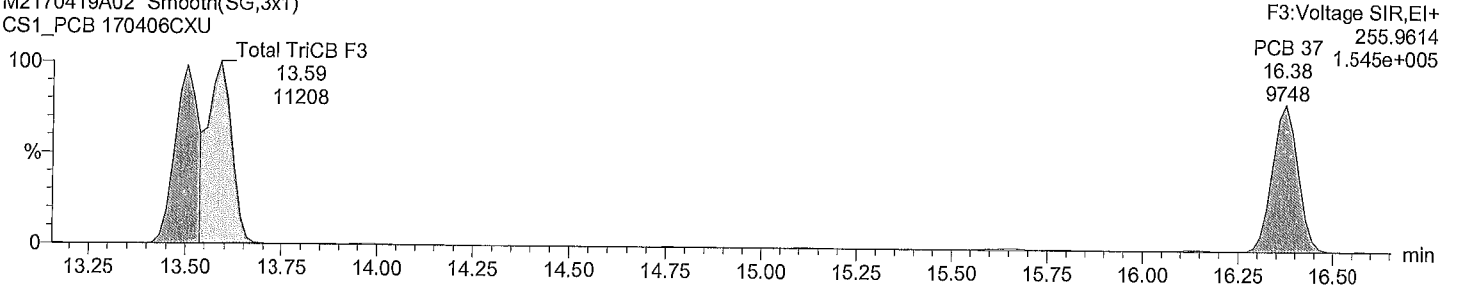
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Description: CS1_PCB 170406CXU

Vial: 2
Date: 19-Apr-2017
Time: 10:32:00
Instrument:

Total TriCB F3

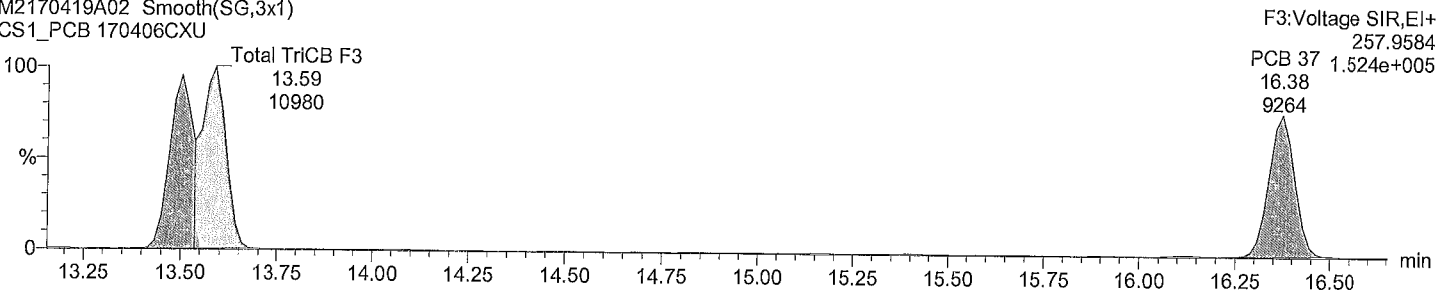
M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



F3: Voltage SIR, EI+
255.9614
PCB 37 1.545e+005

Total TriCB F3

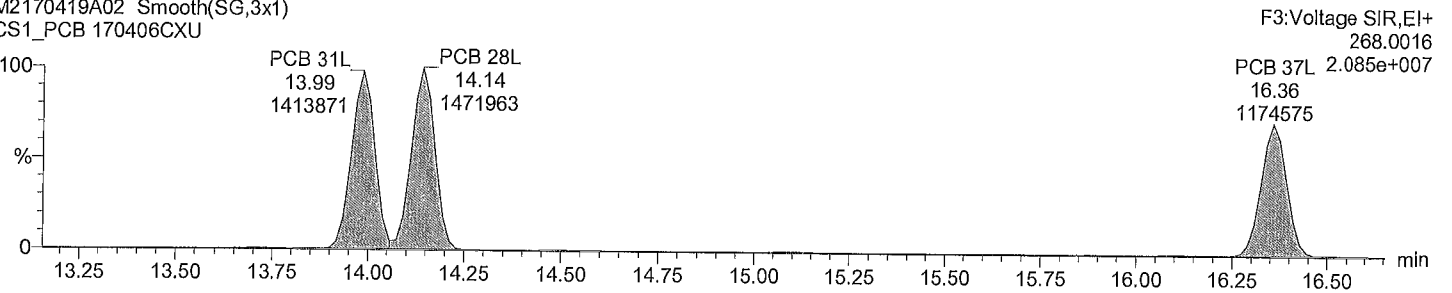
M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



F3: Voltage SIR, EI+
257.9584
PCB 37 1.524e+005

Total TriCB labeled F3

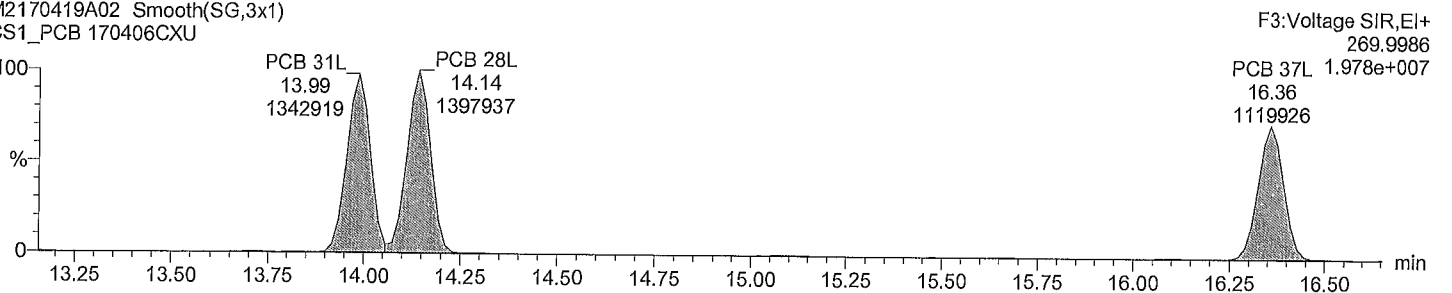
M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



F3: Voltage SIR, EI+
268.0016
PCB 37L 2.085e+007

Total TriCB labeled F3

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



F3: Voltage SIR, EI+
269.9986
PCB 37L 1.978e+007

Dataset: C:\MassLynx\Default.pro\QLD_PCBM2\M2170419A_1668A_6PT.qld

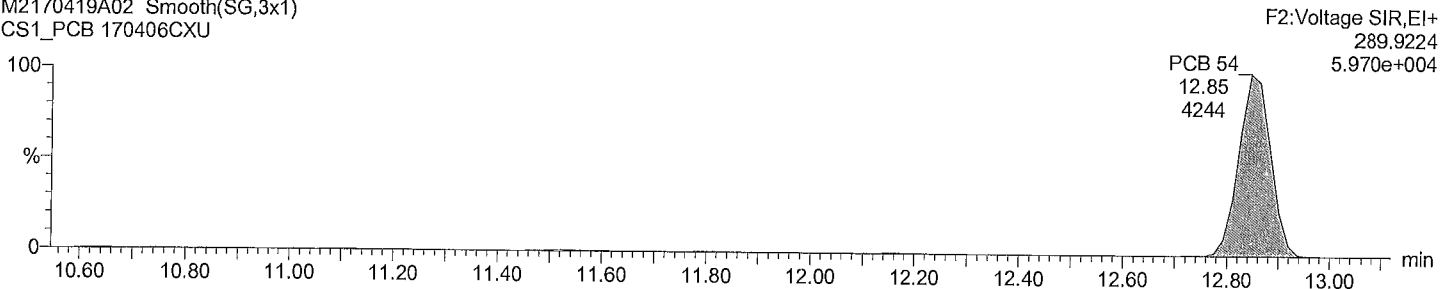
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Description: CS1_PCB 170406CXU

Vial: 2
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Time: 10:32:00
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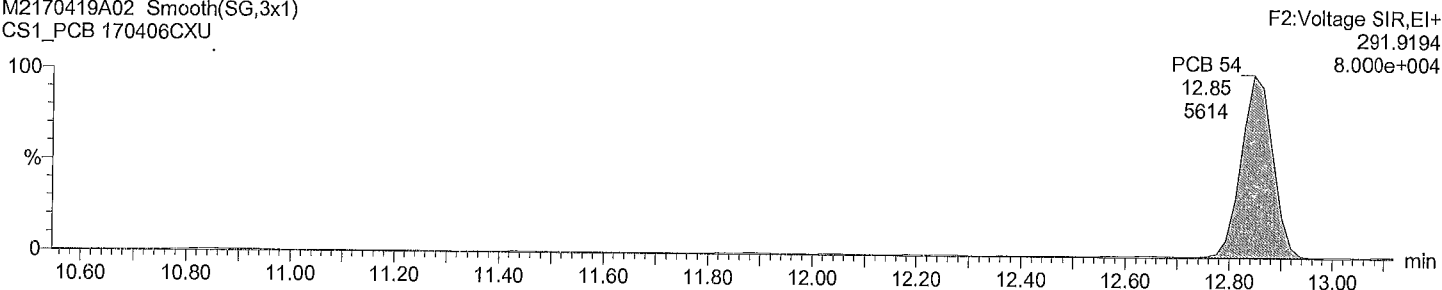
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CS1_PCB 170406CXU



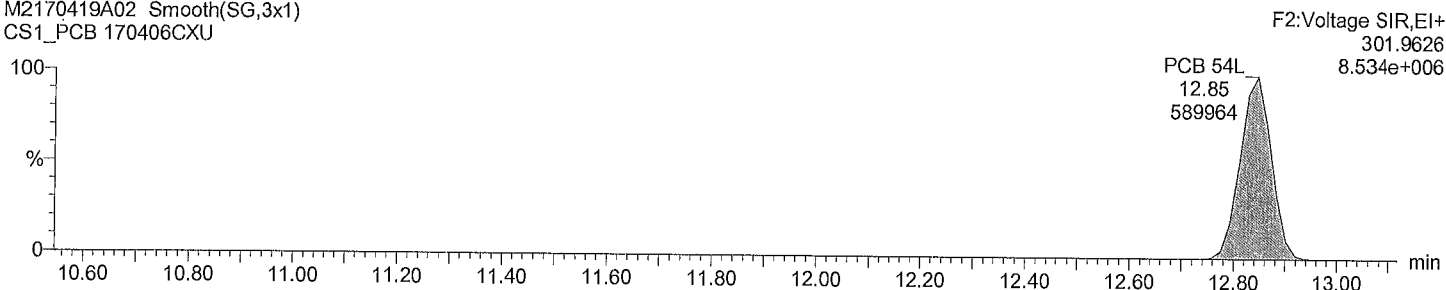
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CS1_PCB 170406CXU



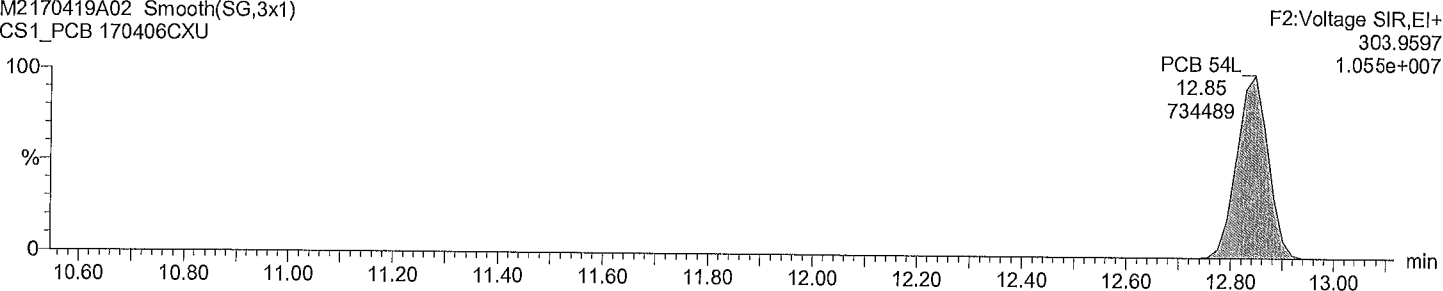
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M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



Total TeCB labeled F2

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



Dataset: C:\MassLynx\Default.pro\QLD_PCB\M2\M2170419A_1668A_6PT.qld

Last Altered: May-15-17 11:57:40 AM Eastern Daylight Time
Printed: June-21-17 12:58:20 PM Eastern Daylight Time

Description: CS1_PCB 170406CXU

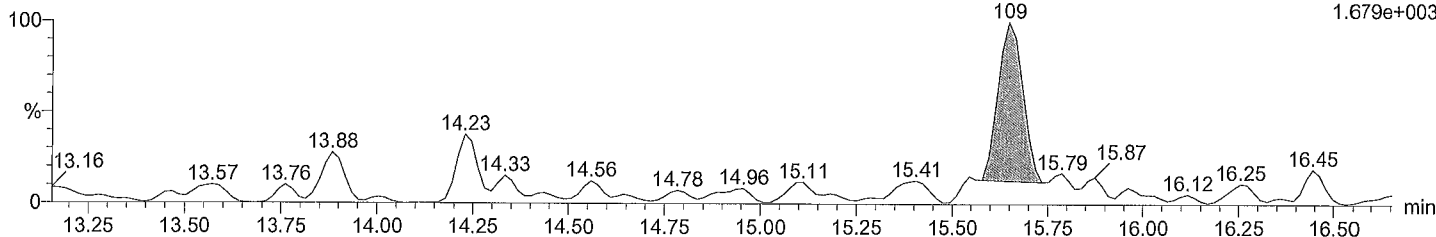
Vial: 2
Date: 19-Apr-2017
Time: 10:32:00
Instrument:

Total TeCB F3

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

Total TeCB F3

F3:Voltage SIR,EI+
289.9224
1.679e+003

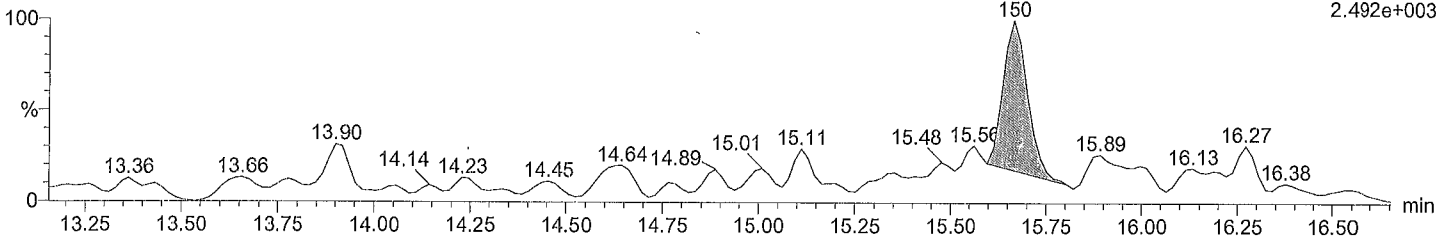


Total TeCB F3

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

Total TeCB F3

F3:Voltage SIR,EI+
291.9194
2.492e+003

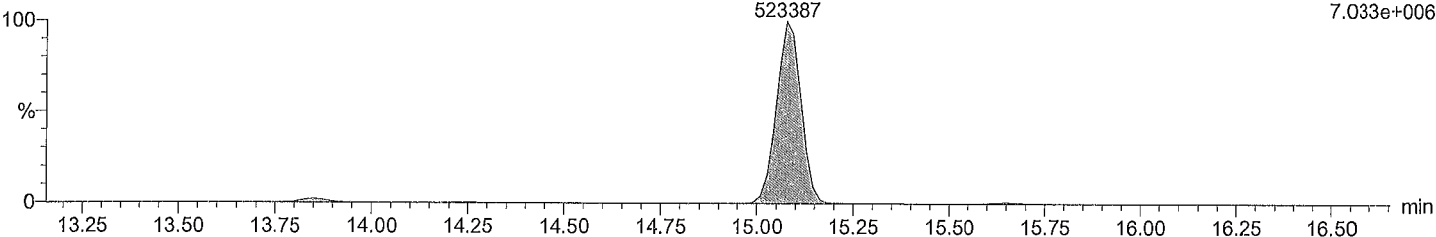


Total TeCB labeled F3

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

PCB 52L
15.08
523387

F3:Voltage SIR,EI+
301.9626
7.033e+006

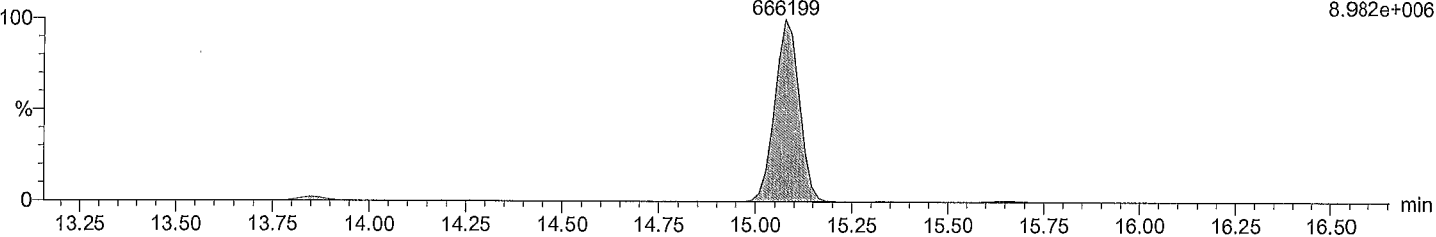


Total TeCB labeled F3

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

PCB 52L
15.08
666199

F3:Voltage SIR,EI+
303.9597
8.982e+006



Dataset: C:\MassLynx\Default.pro\QLD_PCB\M2\M2170419A_1668A_6PT.qld

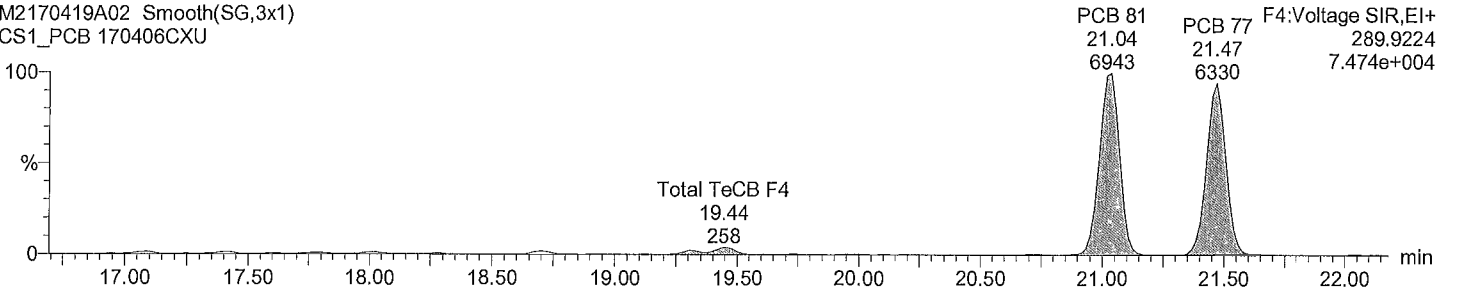
Last Altered: May-15-17 11:57:40 AM Eastern Daylight Time
Printed: June-21-17 12:58:20 PM Eastern Daylight Time

Description: CS1_PCB 170406CXU

Vial: 2
Date: 19-Apr-2017
Time: 10:32:00
Instrument:

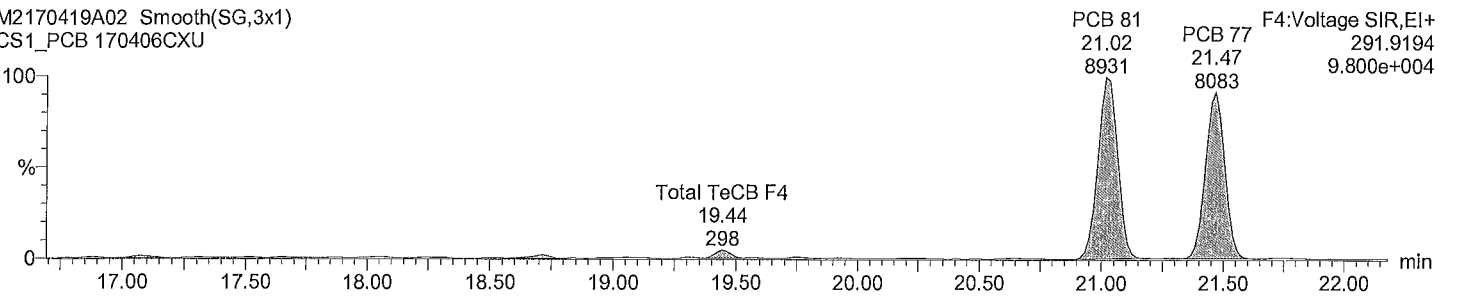
Total TeCB F4

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



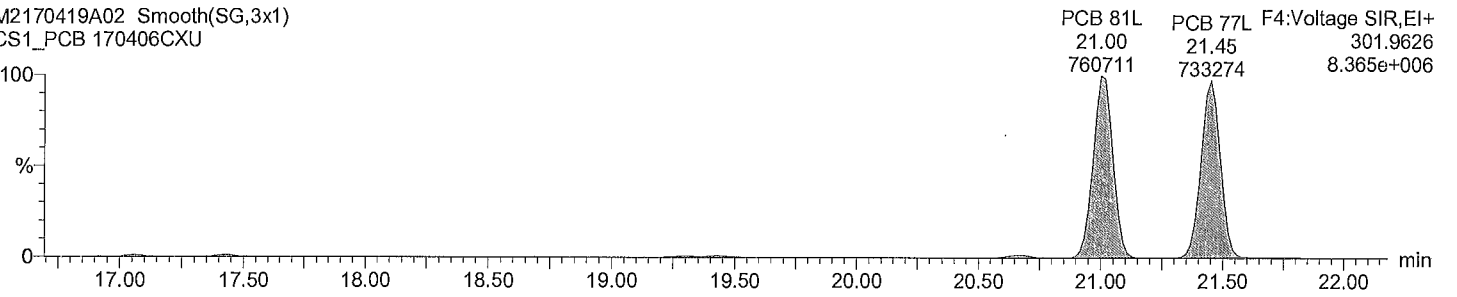
Total TeCB F4

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



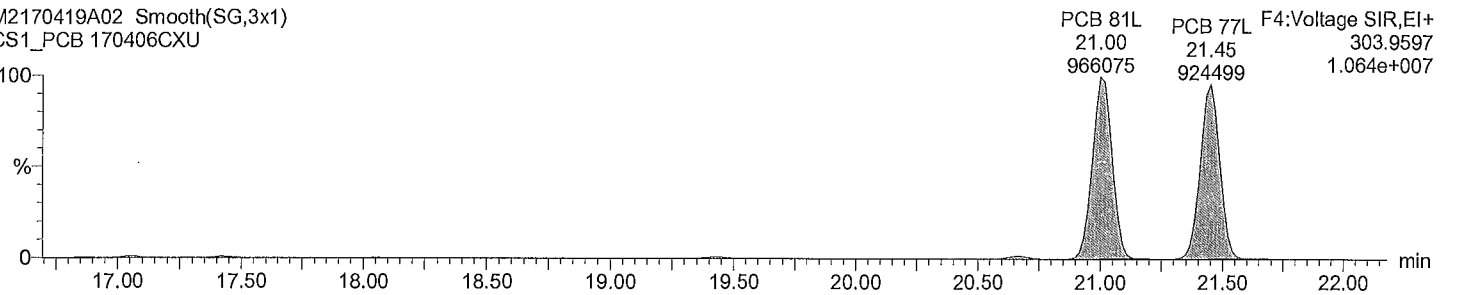
Total TeCB labeled F4

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



Total TeCB labeled F4

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



Dataset: C:\MassLynx\Default.pro\QLD_PCB\M2\M2170419A_1668A_6PT.qld

Last Altered: May-15-17 11:57:40 AM Eastern Daylight Time

Printed: June-21-17 12:58:20 PM Eastern Daylight Time

Description: CS1_PCB 170406CXU

Vial: 2

Date: 19-Apr-2017

Time: 10:32:00

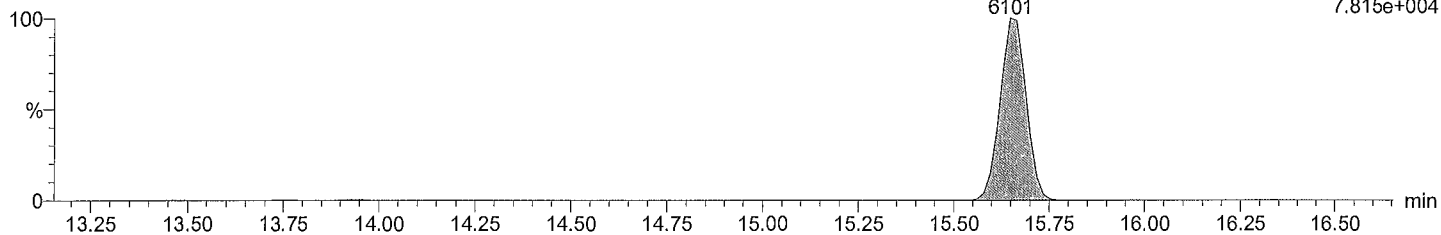
Instrument:

Total PeCB F3

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

PCB 104
15.65
6101

F3:Voltage SIR,EI+
325.8805
7.815e+004

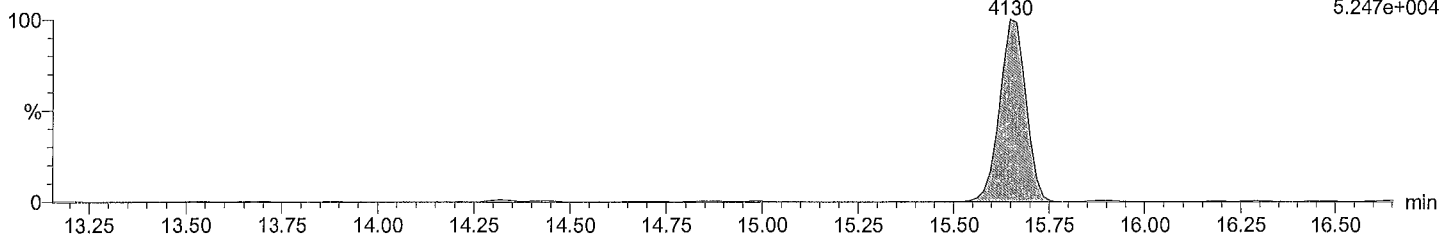


Total PeCB F3

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

PCB 104
15.65
4130

F3:Voltage SIR,EI+
327.8775
5.247e+004

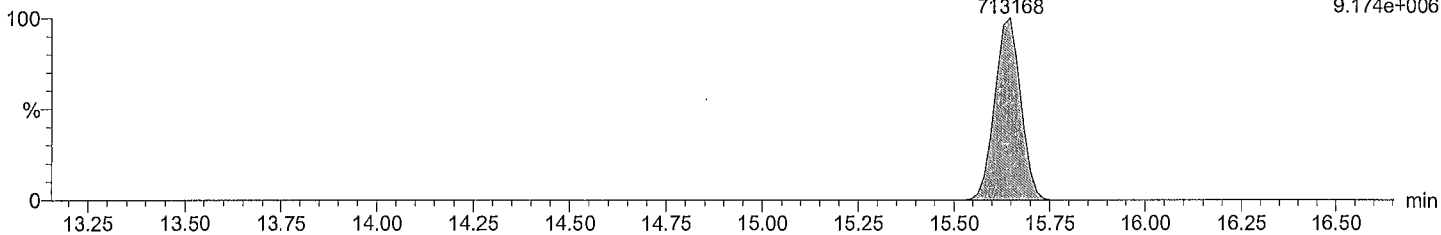


Total PeCB labeled F3

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

PCB 104L
15.65
713168

F3:Voltage SIR,EI+
337.9207
9.174e+006

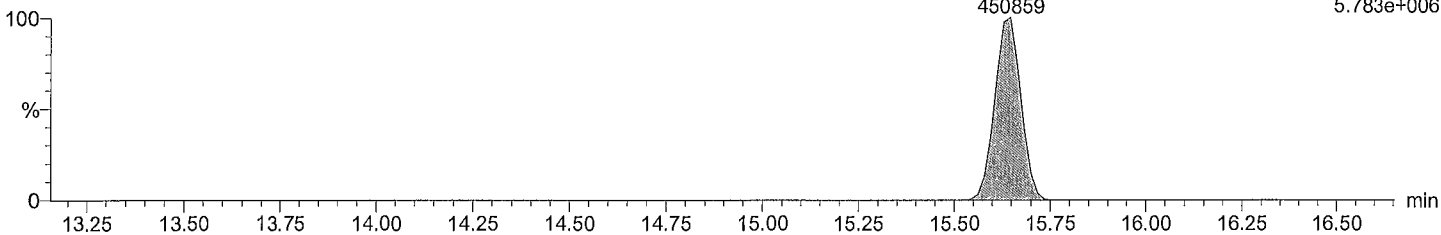


Total PeCB labeled F3

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

PCB 104L
15.65
450859

F3:Voltage SIR,EI+
339.9178
5.783e+006



Dataset: C:\MassLynx\Default.pro\QLD_PCB\M2\M2170419A_1668A_6PT.qld

Last Altered: May-15-17 11:57:40 AM Eastern Daylight Time
Printed: June-21-17 12:58:20 PM Eastern Daylight Time

Description: CS1_PCB 170406CXU

Vial: 2

Date: 19-Apr-2017

Time: 10:32:00

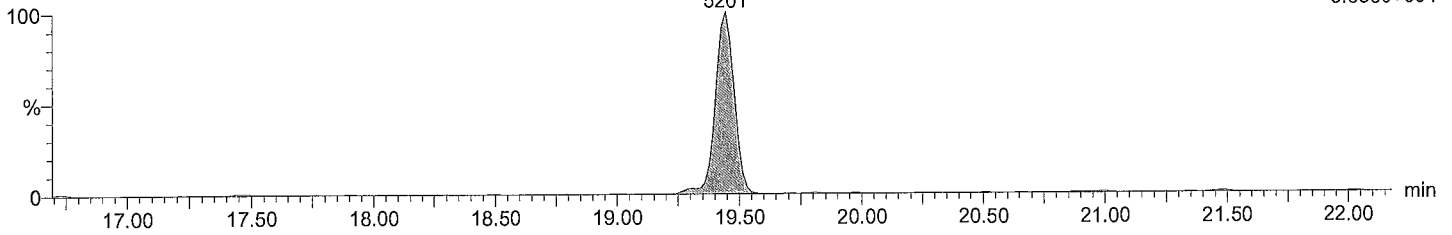
Instrument:

Total PeCB F4

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

Total PeCB F4
19.44
5201

F4:Voltage SIR,EI+
325.8805
5.830e+004

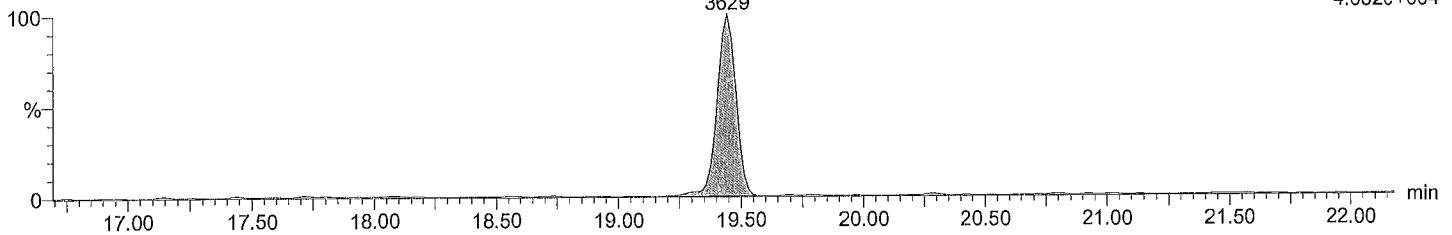


Total PeCB F4

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

Total PeCB F4
19.44
3629

F4:Voltage SIR,EI+
327.8775
4.062e+004



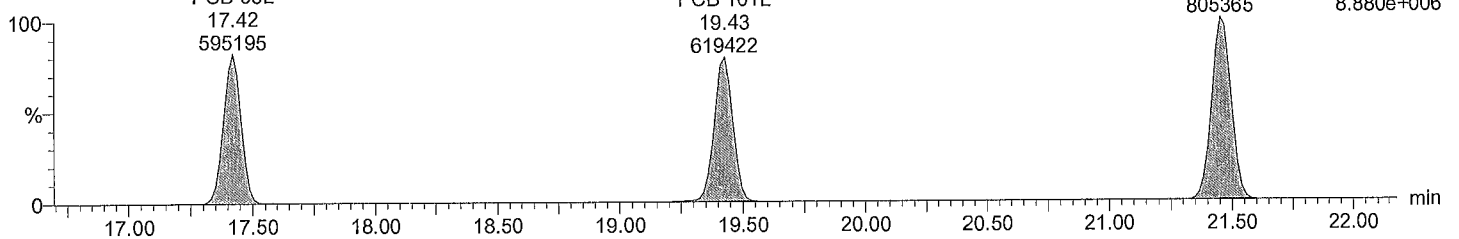
Total PeCB labeled F4

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

PCB 95L
17.42
595195

PCB 101L
19.43
619422

PCB 111L F4:Voltage SIR,EI+
21.45
805365
337.9207
8.880e+006



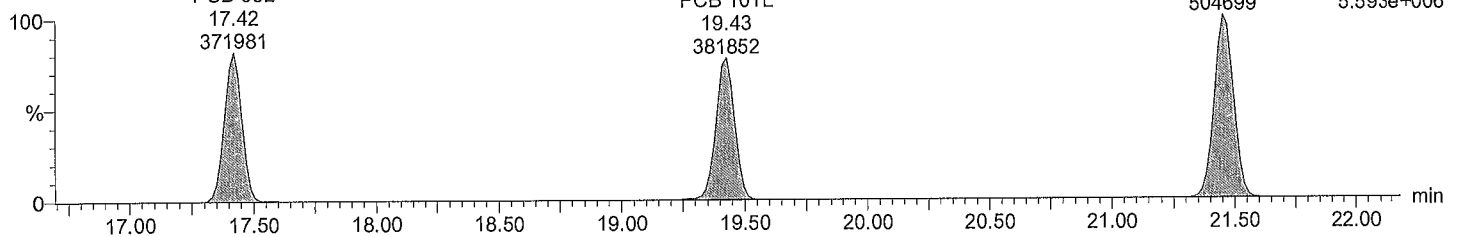
Total PeCB labeled F4

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

PCB 95L
17.42
371981

PCB 101L
19.43
381852

PCB 111L F4:Voltage SIR,EI+
21.45
504699
339.9178
5.593e+006



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD_PCB\M2\M2170419A_1668A_6PT.qld

Last Altered: May-15-17 11:57:40 AM Eastern Daylight Time

Printed: June-21-17 12:58:20 PM Eastern Daylight Time

Description: CS1_PCB 170406CXU

Vial: 2

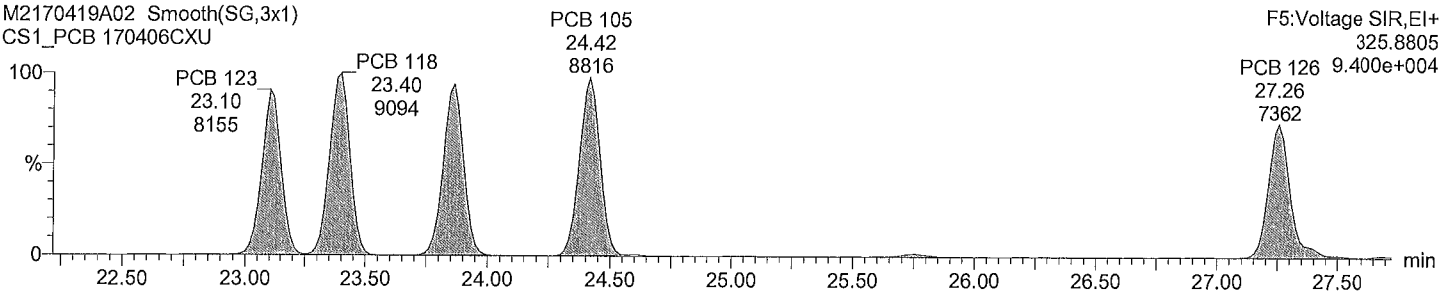
Date: 19-Apr-2017

Time: 10:32:00

Instrument:

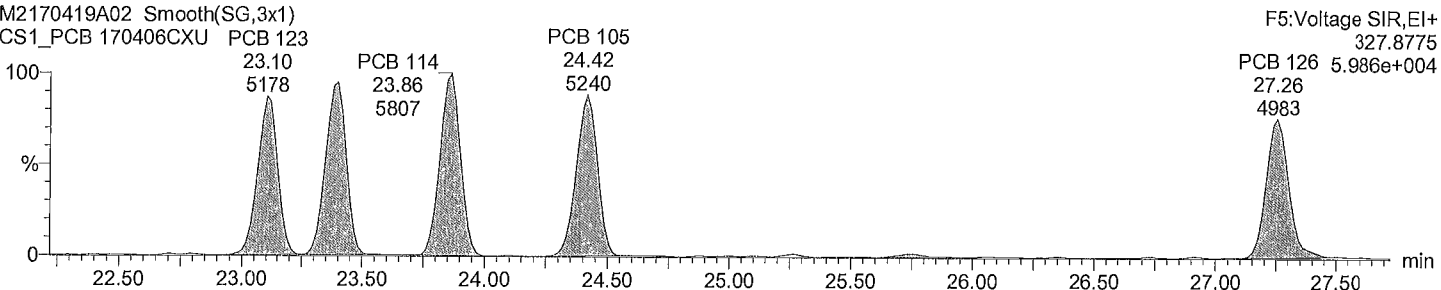
Total PeCB F5

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



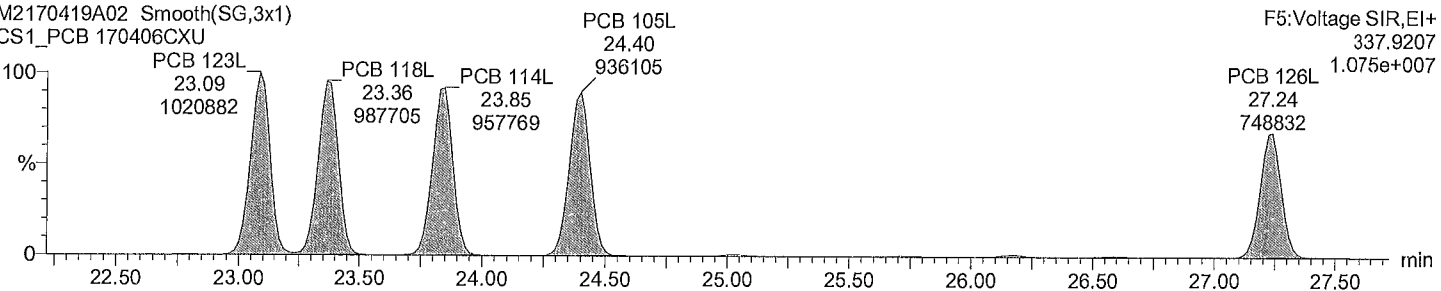
Total PeCB F5

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



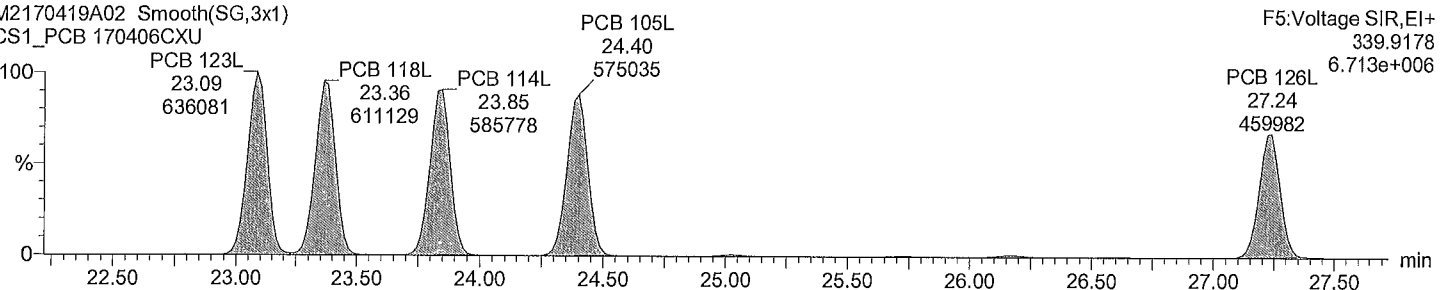
Total PeCB labeled F5

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



Total PeCB labeled F5

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



Acquired Date

Dataset: C:\MassLynx\Default.pro\QLD_PCB\M2\M2170419A_1668A_6PT.qld

Last Altered: May-15-17 11:57:40 AM Eastern Daylight Time

Printed: June-21-17 12:58:20 PM Eastern Daylight Time

Description: CS1_PCB 170406CXU

Vial: 2

Date: 19-Apr-2017

Time: 10:32:00

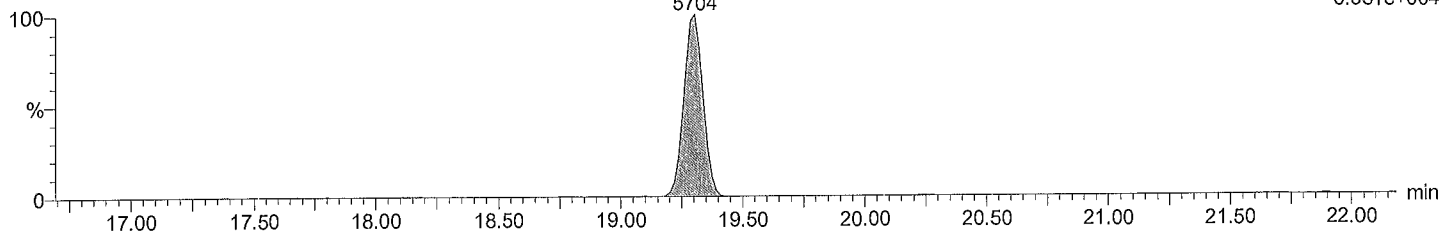
Instrument:

Total HxCB F4

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

PCB 155
19.31
5704

F4:Voltage SIR,EI+
359.8415
6.351e+004

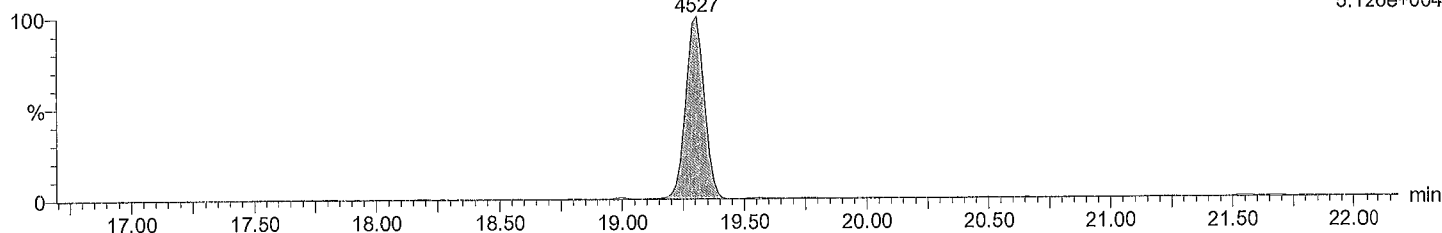


Total HxCB F4

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

PCB 155
19.31
4527

F4:Voltage SIR,EI+
361.8385
5.126e+004

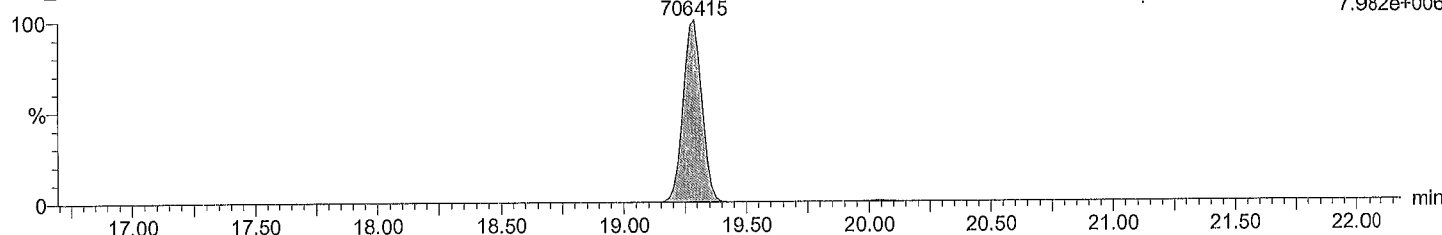


Total HxCB labeled F4

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

PCB 155L
19.29
706415

F4:Voltage SIR,EI+
371.8817
7.982e+006

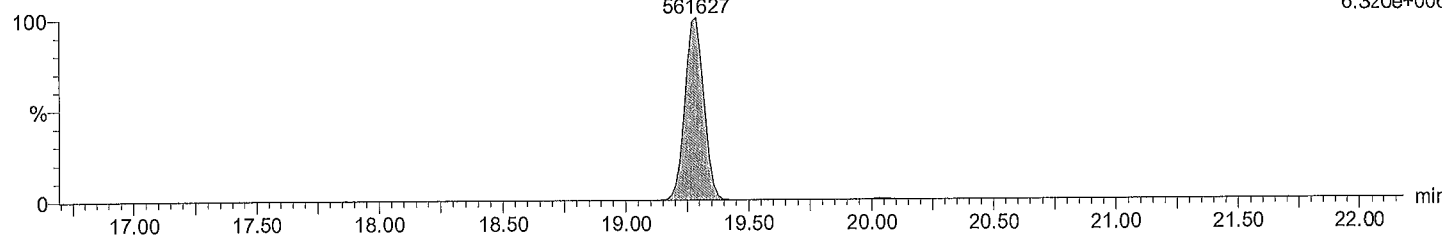


Total HxCB labeled F4

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

PCB 155L
19.29
561627

F4:Voltage SIR,EI+
373.8788
6.320e+006



Dataset: C:\MassLynx\Default.pro\QLD_PCB\M2\M2170419A_1668A_6PT.qld

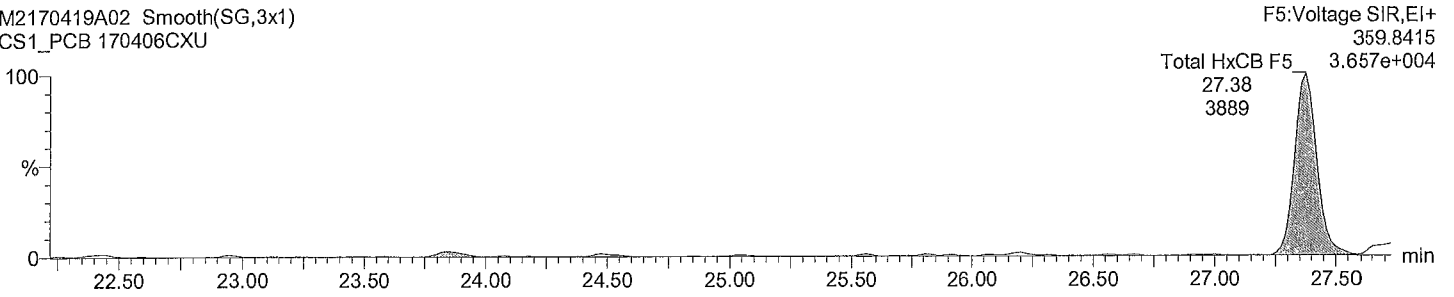
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Printed: June-21-17 12:58:20 PM Eastern Daylight Time

Description: CS1_PCB 170406CXU

Vial: 2
Date: 19-Apr-2017
Time: 10:32:00
Instrument:

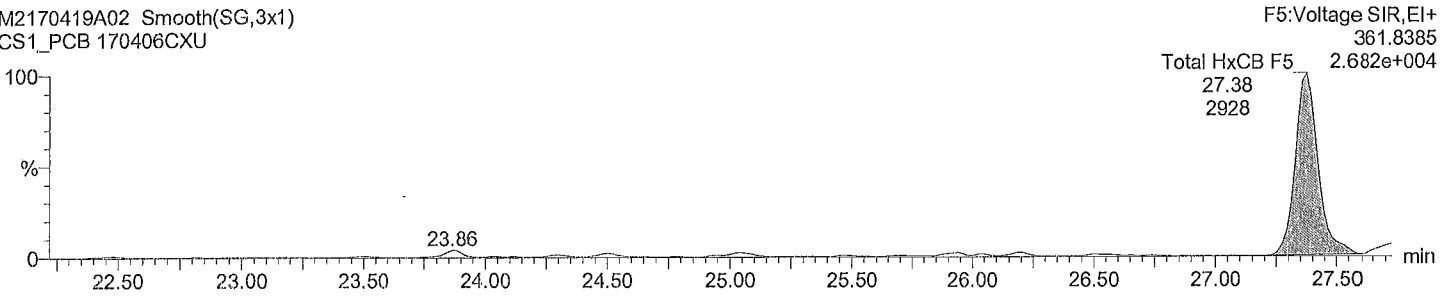
Total HxCB F5

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



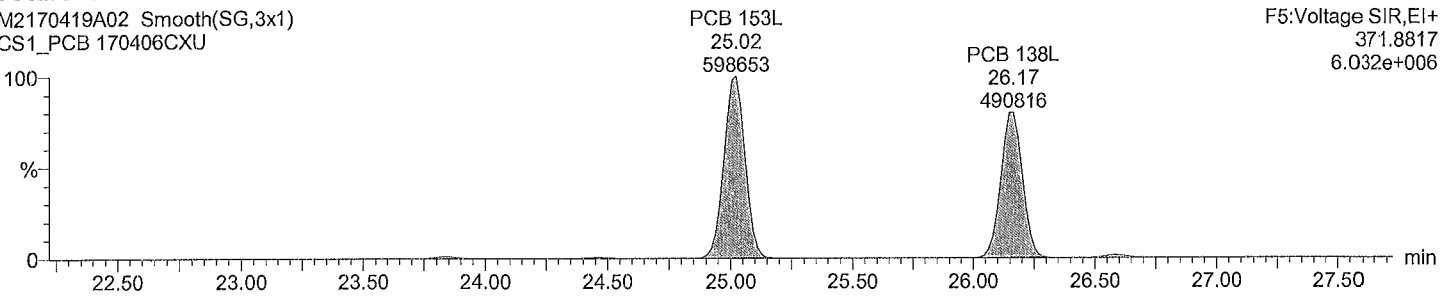
Total HxCB F5

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



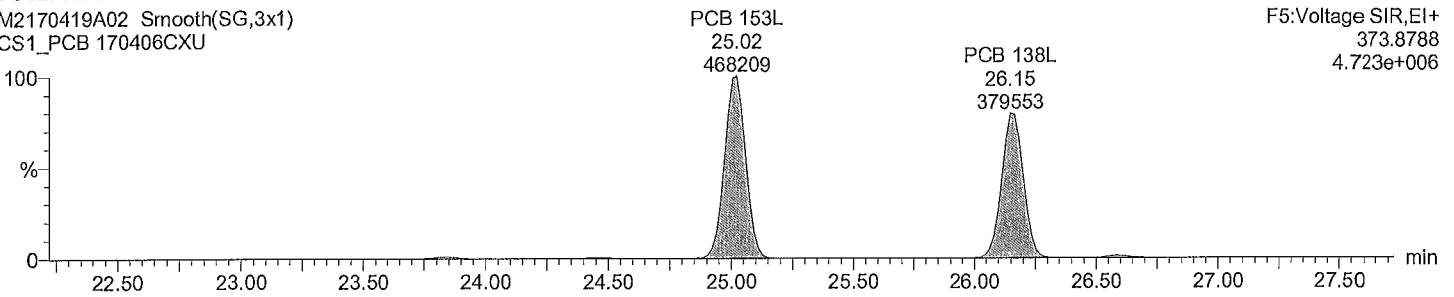
Total HxCB labeled F5

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



Total HxCB labeled F5

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU



Dataset: C:\MassLynx\Default.pro\QLD_PCB\M2\M2170419A_1668A_6PT.qld

Last Altered: May-15-17 11:57:40 AM Eastern Daylight Time
Printed: June-21-17 12:58:20 PM Eastern Daylight Time

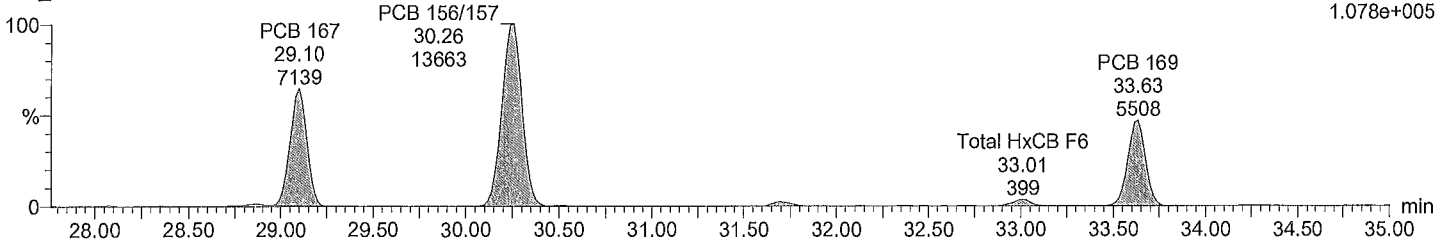
Description: CS1_PCB 170406CXU

Vial: 2
Date: 19-Apr-2017
Time: 10:32:00
Instrument:

Total HxCB F6

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

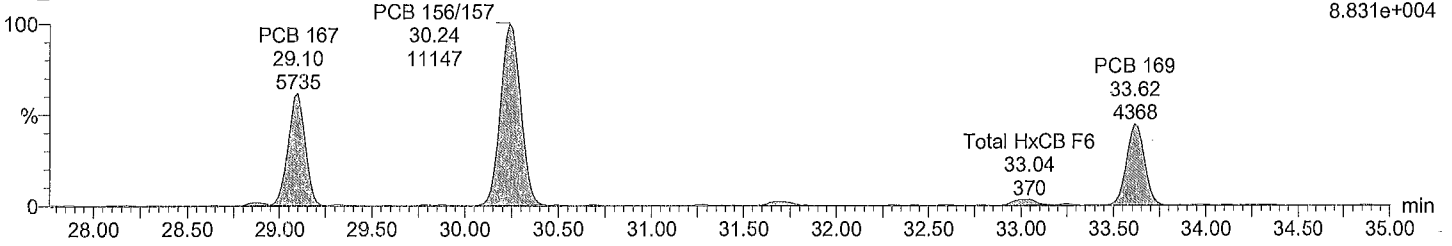
F6:Voltage SIR,EI+
359.8415
1.078e+005



Total HxCB F6

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

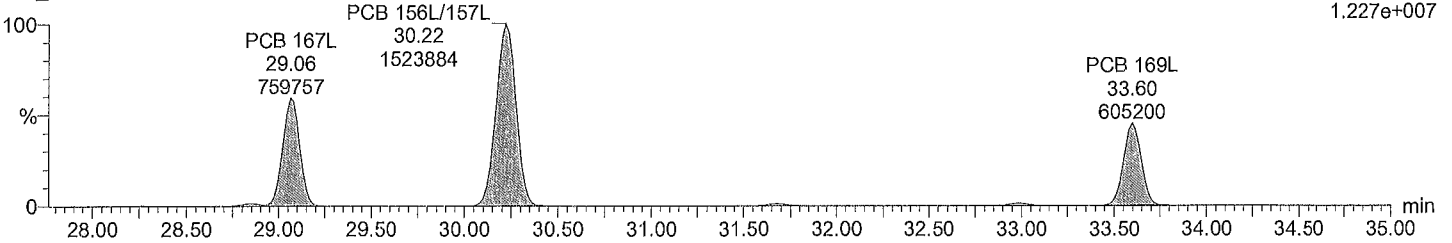
F6:Voltage SIR,EI+
361.8385
8.831e+004



Total HxCB labeled F6

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

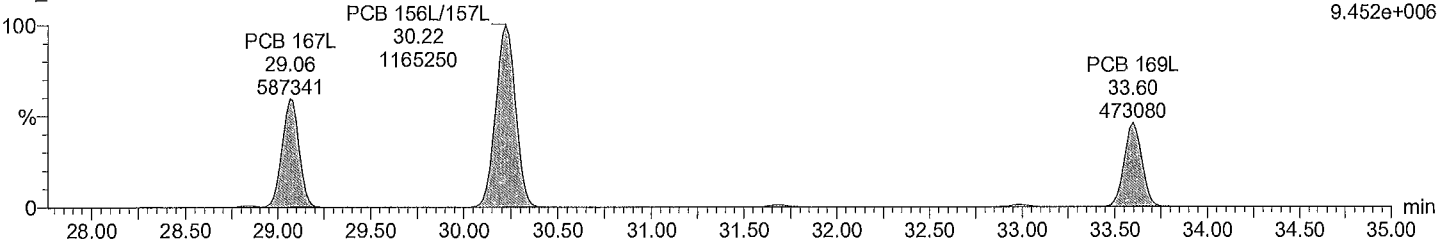
F6:Voltage SIR,EI+
371.8817
1.227e+007



Total HxCB labeled F6

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

F6:Voltage SIR,EI+
373.8788
9.452e+006



Dataset: C:\MassLynx\Default.pro\QLD_PCB\M2\M2170419A_1668A_6PT.qld

Last Altered: May-15-17 11:57:40 AM Eastern Daylight Time
Printed: June-21-17 12:58:20 PM Eastern Daylight Time

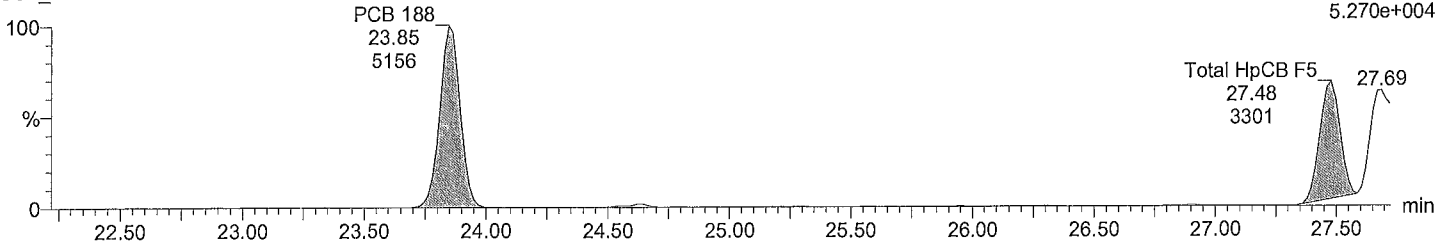
Description: CS1_PCB 170406CXU

Vial: 2
Date: 19-Apr-2017
Time: 10:32:00
Instrument:

Total HpCB F5

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

F5:Voltage SIR,EI+
393.8025
5.270e+004

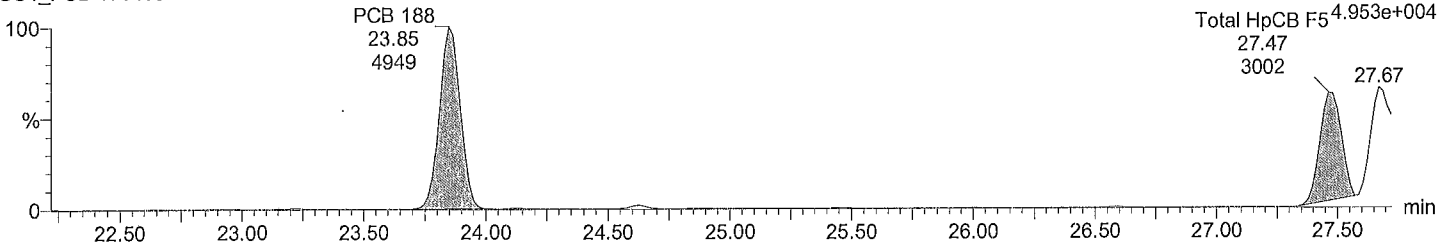


Total HpCB F5

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

F5:Voltage SIR,EI+
395.7995

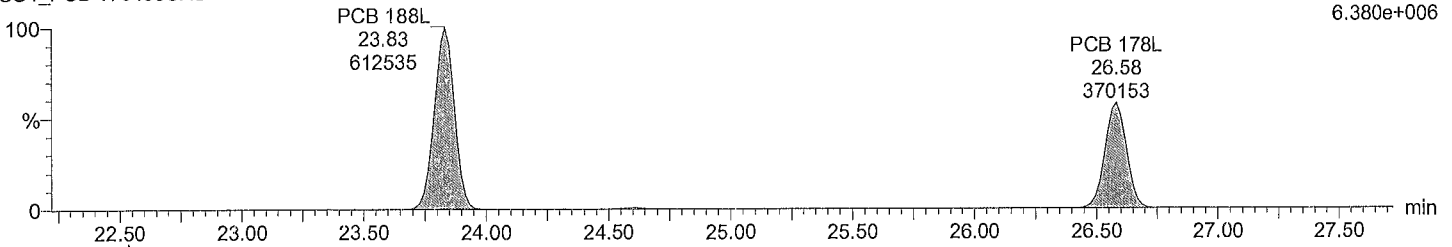
Total HpCB F5 4.953e+004
27.47
3002



Total HpCB labeled F5

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

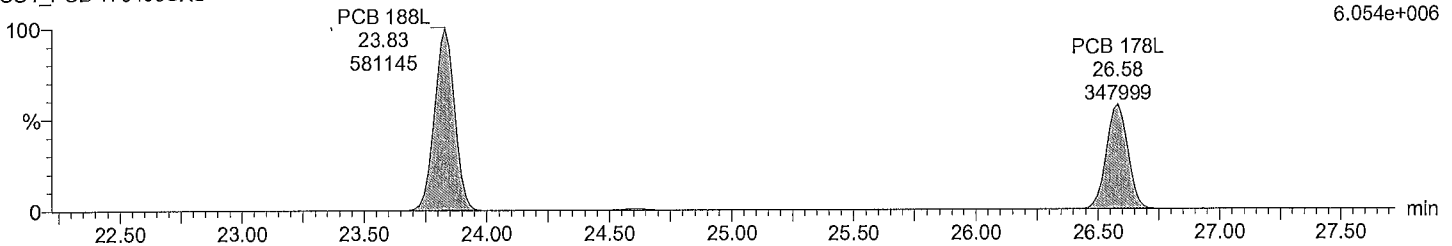
F5:Voltage SIR,EI+
405.8428
6.380e+006



Total HpCB labeled F5

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

F5:Voltage SIR,EI+
407.8398
6.054e+006



Dataset: C:\MassLynx\Default.pro\QLD_PCB\M2\M2170419A_1668A_6PT.qld

Last Altered: May-15-17 11:57:40 AM Eastern Daylight Time
Printed: June-21-17 12:58:20 PM Eastern Daylight Time

Description: CS1_PCB 170406CXU

Vial: 2
Date: 19-Apr-2017
Time: 10:32:00
Instrument:

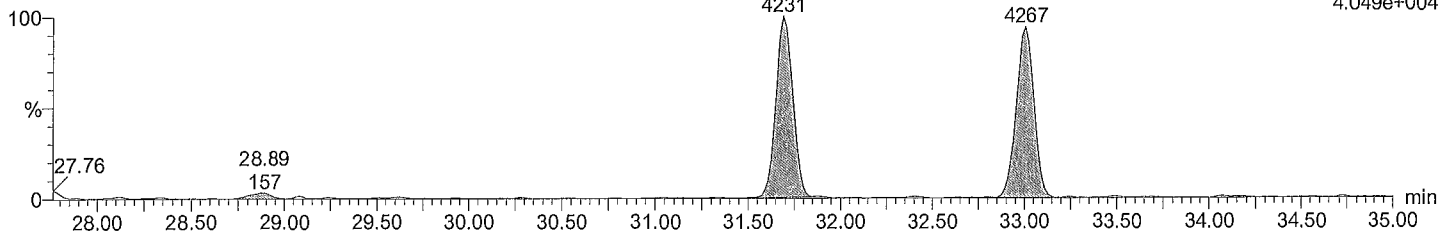
Total HpCB F6

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

PCB 193/180
31.69
4231

PCB 170
33.01
4267

F6:Voltage SIR,EI+
393.8025
4.049e+004



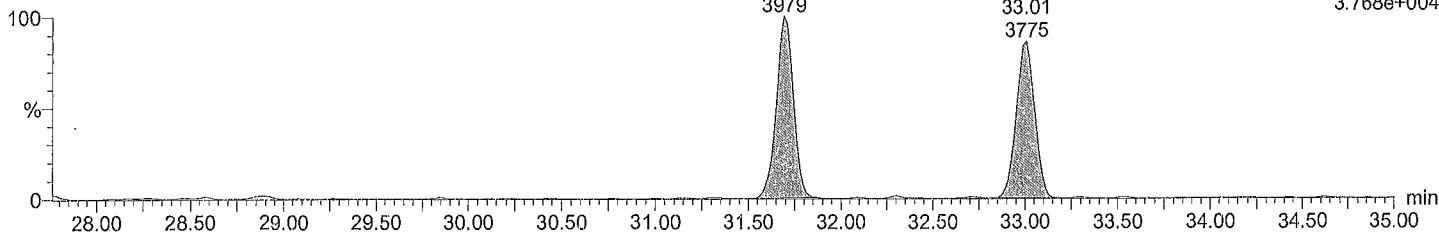
Total HpCB F6

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

PCB 193/180
31.69
3979

PCB 170
33.01
3775

F6:Voltage SIR,EI+
395.7995
3.768e+004



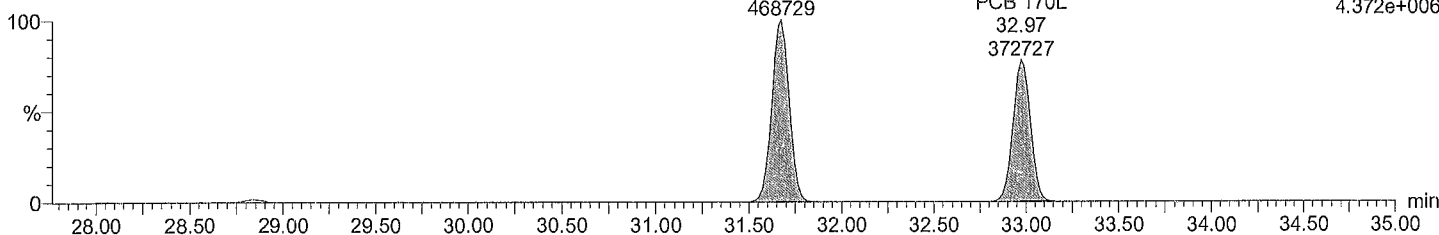
Total HpCB labeled F6

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

PCB 180L
31.68
468729

PCB 170L
32.97
372727

F6:Voltage SIR,EI+
405.8428
4.372e+006



Total HpCB labeled F6

M2170419A02 Smooth(SG,3x1)
CS1_PCB 170406CXU

PCB 180L
31.68
432399

PCB 170L
32.97
350754

F6:Voltage SIR,EI+
407.8398
4.018e+006

