Sequence No.: 20
Sample ID: BEJ0643-DUP1

Autosampler Location: 329
Date Collected: 10/28/2016 2:02:05 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0643-DUP1

Analyte	Back Pressure	Flow
All	148.0 kPa	0.65 L/min

Mean Data: BEJ0643-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1778649.5	101.6	%	0.59				0.58%
ScR 361.383	196549.8	102.1	%	0.44				0.43%
Ag 328.068†	-43.2	-0.00033	mg/L	0.000350	-0.00033	mg/L	0.000350	105.09%
Al 308.215†	32.7	0.03491	mg/L	0.001631	0.03491	mg/L	0.001631	4.67%
As 188.979†	16.7	0.01007	mg/L	0.005250	0.01007	mg/L	0.005250	52.15%
B 249.677†	1430.3	0.2767	mg/L	0.00096	0.2767	mg/L	0.00096	0.35%
Ba 233.527†	239.6	0.03688	mg/L	0.001562	0.03688	mg/L	0.001562	4.24%
Be 313.042†	11.0	0.00003	mg/L	0.000084	0.00003	mg/L	0.000084	254.78%
Ca 317.933†	455550.2	63.64	mg/L	0.264	63.64	mg/L	0.264	0.42%
Cd 228.802†	-5.9	-0.00069	mg/L	0.000204	-0.00069	mg/L	0.000204	29.44%
Co 228.616†	19.6	0.00076	mg/L	0.000126	0.00076	mg/L	0.000126	16.66%
Cr 267.716†	41.7	0.00073	mg/L	0.000972	0.00073	mg/L	0.000972	133.92%
Cu 324.752†	-26.2	0.00031	mg/L	0.000306	0.00031	mg/L	0.000306	97.49%
Fe 273.955†	25212.2	32.14	mg/L	0.181	32.14	mg/L	0.181	0.56%
K 766.490†	35132.8	28.87	mg/L	0.148	28.87	mg/L	0.148	0.51%
Mg 279.077†	87905.0	107.9	mg/L	0.22	107.9	mg/L	0.22	0.21%
Mn 257.610†	70041.7	2.355	mg/L	0.0115	2.355	mg/L	0.0115	0.49%
Mo 202.031†	103.3	0.00571	mg/L	0.000401	0.00571	mg/L	0.000401	7.01%
Na 589.592†	2536434.1	339.0	mg/L	0.71	339.0	mg/L	0.71	0.21%
Na 330.237†	5910.7	351.2	mg/L	1.05	351.2	mg/L	1.05	0.30%
Ni 231.604†	0.9	0.00026	mg/L	0.001051	0.00026	mg/L	0.001051	408.05%
Pb 220.353†	3.1	0.00048	mg/L	0.001411	0.00048	mg/L	0.001411	291.23%
Sb 206.836†	-0.0	-0.00042	mg/L	0.000548	-0.00042	mg/L	0.000548	130.05%
Se 196.026†	21.5	0.02325	mg/L	0.006225	0.02325	mg/L	0.006225	26.77%
Si 288.158†	37278.1	31.77	mg/L	0.098	31.77	mg/L	0.098	0.31%
Sn 189.927†	-95.2	-0.01841	mg/L	0.000591	-0.01841	mg/L	0.000591	3.21%
Sr 421.552†	298243.7	0.6010	mg/L	0.00025	0.6010	mg/L	0.00025	0.04%
Ti 334.903†	119.5	0.00374	mg/L	0.001004	0.00374	mg/L	0.001004	26.87%
Tl 190.801†	1.9	0.00186	mg/L	0.001612	0.00186	mg/L	0.001612	86.88%
V 292.402†	201.6	0.00116	mg/L	0.000080	0.00116	mg/L	0.000080	6.87%
Zn 206.200†	-19.7	0.00007	mg/L	0.001205	0.00007	mg/L	0.001205	>999.9%

Sequence No.: 21
Sample ID: 16J0341-02

Autosampler Location: 330
Date Collected: 10/28/2016 2:06:21 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0341-02

Analyte	Back Pressure	Flow
All	149.0 kPa	0.65 L/min

Mean Data: 16J0341-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1794878.3	102.5	%	0.89				0.87%
ScR 361.383	205644.7	106.8	%	0.60				0.56%
Ag 328.068†	-67.5	-0.00052	mg/L	0.000217	-0.00052	mg/L	0.000217	41.69%
Al 308.215†	30.2	0.03224	mg/L	0.001922	0.03224	mg/L	0.001922	5.96%
As 188.979†	18.7	0.01180	mg/L	0.002719	0.01180	mg/L	0.002719	23.04%
B 249.677†	1416.8	0.2740	mg/L	0.00131	0.2740	mg/L	0.00131	0.48%
Ba 233.527†	231.6	0.03570	mg/L	0.000464	0.03570	mg/L	0.000464	1.30%
Be 313.042†	38.6	0.00012	mg/L	0.000049	0.00012	mg/L	0.000049	41.84%
Ca 317.933†	438796.8	61.30	mg/L	0.470	61.30	mg/L	0.470	0.77%
Cd 228.802†	-1.3	-0.00043	mg/L	0.000042	-0.00043	mg/L	0.000042	9.76%
Co 228.616†	25.2	0.00098	mg/L	0.000092	0.00098	mg/L	0.000092	9.44%
Cr 267.716†	42.7	0.00124	mg/L	0.000801	0.00124	mg/L	0.000801	64.77%
Cu 324.752†	-14.3	0.00038	mg/L	0.000064	0.00038	mg/L	0.000064	17.05%
Fe 273.955†	23999.7	30.59	mg/L	0.230	30.59	mg/L	0.230	0.75%
K 766.490†	33512.4	27.54	mg/L	0.082	27.54	mg/L	0.082	0.30%
Mg 279.077†	83360.1	102.3	mg/L	0.44	102.3	mg/L	0.44	0.43%
Mn 257.610†	66816.7	2.247	mg/L	0.0132	2.247	mg/L	0.0132	0.59%
Mo 202.031†	105.2	0.00587	mg/L	0.000356	0.00587	mg/L	0.000356	6.07%
Na 589.592†	2418305.4	323.2	mg/L	4.42	323.2	mg/L	4.42	1.37%
Na 330.237†	5625.4	334.2	mg/L	1.80	334.2	mg/L	1.80	0.54%
Ni 231.604†	1.4	0.00039	mg/L	0.001656	0.00039	mg/L	0.001656	426.88%
Pb 220.353†	-0.7	-0.00008	mg/L	0.000239	-0.00008	mg/L	0.000239	312.07%
Sb 206.836†	4.5	0.00144	mg/L	0.001674	0.00144	mg/L	0.001674	116.11%
Se 196.026†	19.3	0.02085	mg/L	0.005023	0.02085	mg/L	0.005023	24.08%
Si 288.158†	35498.7	30.25	mg/L	0.076	30.25	mg/L	0.076	0.25%
Sn 189.927†	-98.8	-0.02018	mg/L	0.000458	-0.02018	mg/L	0.000458	2.27%
Sr 421.552†	285132.5	0.5746	mg/L	0.00787	0.5746	mg/L	0.00787	1.37%
Ti 334.903†	123.4	0.00417	mg/L	0.000304	0.00417	mg/L	0.000304	7.29%
Tl 190.801†	-4.1	-0.00230	mg/L	0.003732	-0.00230	mg/L	0.003732	161.93%
V 292.402†	202.9	0.00122	mg/L	0.000156	0.00122	mg/L	0.000156	12.84%
Zn 206.200†	-16.3	0.00084	mg/L	0.000480	0.00084	mg/L	0.000480	56.88%

Sequence No.: 22
Sample ID: BEJ0643-MS1

Autosampler Location: 331
Date Collected: 10/28/2016 2:10:37 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0643-MS1

Analyte	Back Pressure	Flow
All	149.0 kPa	0.65 L/min

Mean Data: BEJ0643-MS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1783996.1	101.9	%	0.22				0.21%
ScR 361.383	202053.5	105.0	%	0.85				0.81%
Ag 328.068†	61219.2	0.4726	mg/L	0.00408	0.4726	mg/L	0.00408	0.86%
Al 308.215†	1997.8	2.137	mg/L	0.0120	2.137	mg/L	0.0120	0.56%
As 188.979†	2724.7	2.218	mg/L	0.0076	2.218	mg/L	0.0076	0.34%
B 249.677†	1383.0	0.2661	mg/L	0.00207	0.2661	mg/L	0.00207	0.78%
Ba 233.527†	12267.7	2.065	mg/L	0.0125	2.065	mg/L	0.0125	0.60%
Be 313.042†	169545.4	0.5142	mg/L	0.00231	0.5142	mg/L	0.00231	0.45%
Ca 317.933†	514300.5	71.85	mg/L	0.298	71.85	mg/L	0.298	0.42%
Cd 228.802†	9165.3	0.5168	mg/L	0.00352	0.5168	mg/L	0.00352	0.68%
Co 228.616†	12625.0	0.4991	mg/L	0.00008	0.4991	mg/L	0.00008	0.02%
Cr 267.716†	2980.8	0.5090	mg/L	0.00159	0.5090	mg/L	0.00159	0.31%
Cu 324.752†	70457.0	0.4905	mg/L	0.00182	0.4905	mg/L	0.00182	0.37%
Fe 273.955†	25364.2	32.33	mg/L	0.134	32.33	mg/L	0.134	0.41%
K 766.490†	46666.2	38.35	mg/L	0.173	38.35	mg/L	0.173	0.45%
Mg 279.077†	90902.6	111.6	mg/L	0.29	111.6	mg/L	0.29	0.26%
Mn 257.610†	80355.2	2.703	mg/L	0.0098	2.703	mg/L	0.0098	0.36%
Mo 202.031†	108.2	0.00591	mg/L	0.000145	0.00591	mg/L	0.000145	2.45%
Na 589.592†	2501200.5	334.3	mg/L	2.87	334.3	mg/L	2.87	0.86%
Na 330.237†	5968.2	354.4	mg/L	1.73	354.4	mg/L	1.73	0.49%
Ni 231.604†	1794.8	0.5011	mg/L	0.00185	0.5011	mg/L	0.00185	0.37%
Pb 220.353†	12931.2	1.954	mg/L	0.0082	1.954	mg/L	0.0082	0.42%
Sb 206.836†	16.8	0.00047	mg/L	0.001039	0.00047	mg/L	0.001039	221.00%
Se 196.026†	2226.2	2.410	mg/L	0.0081	2.410	mg/L	0.0081	0.34%
Si 288.158†	36162.6	30.82	mg/L	0.144	30.82	mg/L	0.144	0.47%
Sn 189.927†	-107.5	-0.02069	mg/L	0.000246	-0.02069	mg/L	0.000246	1.19%
Sr 421.552†	537420.9	1.083	mg/L	0.0084	1.083	mg/L	0.0084	0.77%
Ti 334.903†	125.4	0.00344	mg/L	0.000125	0.00344	mg/L	0.000125	3.65%
Tl 190.801†	2830.4	1.932	mg/L	0.0011	1.932	mg/L	0.0011	0.05%
V 292.402†	51893.2	0.5127	mg/L	0.00186	0.5127	mg/L	0.00186	0.36%
Zn 206.200†	1603.8	0.5102	mg/L	0.00192	0.5102	mg/L	0.00192	0.38%

Sequence No.: 23
Sample ID: BEJ0643-BS1

Autosampler Location: 332
Date Collected: 10/28/2016 2:14:54 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0643-BS1

Analyte	Back Pressure	Flow
All	149.0 kPa	0.65 L/min

Mean Data: BEJ0643-BS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1860357.0	106.3	%	0.68				0.64%
ScR 361.383	205662.4	106.8	%	0.33				0.30%
Ag 328.068†	20410.1	0.1577	mg/L	0.01773	0.1577	mg/L	0.01773	11.25%
Al 308.215†	2003.2	2.142	mg/L	0.0217	2.142	mg/L	0.0217	1.01%
As 188.979†	2686.8	2.190	mg/L	0.0068	2.190	mg/L	0.0068	0.31%
B 249.677†	8.2	0.00017	mg/L	0.001788	0.00017	mg/L	0.001788	>999.9%
Ba 233.527†	12250.8	2.065	mg/L	0.0106	2.065	mg/L	0.0106	0.51%
Be 313.042†	171649.5	0.5206	mg/L	0.00212	0.5206	mg/L	0.00212	0.41%
Ca 317.933†	74567.5	10.42	mg/L	0.065	10.42	mg/L	0.065	0.62%
Cd 228.802†	9615.3	0.5433	mg/L	0.00193	0.5433	mg/L	0.00193	0.36%
Co 228.616†	13164.8	0.5205	mg/L	0.00127	0.5205	mg/L	0.00127	0.24%
Cr 267.716†	3015.5	0.5210	mg/L	0.00340	0.5210	mg/L	0.00340	0.65%
Cu 324.752†	71766.6	0.4991	mg/L	0.00271	0.4991	mg/L	0.00271	0.54%
Fe 273.955†	1680.5	2.138	mg/L	0.0116	2.138	mg/L	0.0116	0.54%
K 766.490†	13456.1	11.06	mg/L	0.041	11.06	mg/L	0.041	0.37%
Mg 279.077†	8829.3	10.84	mg/L	0.076	10.84	mg/L	0.076	0.70%
Mn 257.610†	15090.7	0.5082	mg/L	0.00455	0.5082	mg/L	0.00455	0.90%
Mo 202.031†	19.7	0.00112	mg/L	0.000266	0.00112	mg/L	0.000266	23.88%
Na 589.592†	80470.2	10.75	mg/L	0.030	10.75	mg/L	0.030	0.28%
Na 330.237†	193.4	11.29	mg/L	0.383	11.29	mg/L	0.383	3.39%
Ni 231.604†	1874.3	0.5232	mg/L	0.00252	0.5232	mg/L	0.00252	0.48%
Pb 220.353†	13977.7	2.112	mg/L	0.0080	2.112	mg/L	0.0080	0.38%
Sb 206.836†	8.9	-0.00262	mg/L	0.002586	-0.00262	mg/L	0.002586	98.54%
Se 196.026†	2229.3	2.413	mg/L	0.0138	2.413	mg/L	0.0138	0.57%
Si 288.158†	-6.8	-0.00262	mg/L	0.000769	-0.00262	mg/L	0.000769	29.33%
Sn 189.927†	-30.7	-0.00816	mg/L	0.000766	-0.00816	mg/L	0.000766	9.39%
Sr 421.552†	256134.9	0.5161	mg/L	0.00078	0.5161	mg/L	0.00078	0.15%
Ti 334.903†	0.7	-0.00082	mg/L	0.000014	-0.00082	mg/L	0.000014	1.76%
Tl 190.801†	3157.3	2.155	mg/L	0.0082	2.155	mg/L	0.0082	0.38%
V 292.402†	53227.5	0.5267	mg/L	0.00248	0.5267	mg/L	0.00248	0.47%
Zn 206.200†	1705.7	0.5362	mg/L	0.00087	0.5362	mg/L	0.00087	0.16%

Sequence No.: 24
Sample ID: SEQ-IBL1

Autosampler Location: 333
Date Collected: 10/28/2016 2:18:53 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-IBL1

Analyte	Back Pressure	Flow
All	149.0 kPa	0.65 L/min

Mean Data: SEQ-IBL1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1831078.3	104.6	%	0.20				0.19%
ScR 361.383	202907.3	105.4	%	0.23				0.22%
Ag 328.068†	1917.4	0.01480	mg/L	0.013454	0.01480	mg/L	0.013454	90.93%
Al 308.215†	3.6	0.00387	mg/L	0.002596	0.00387	mg/L	0.002596	67.07%
As 188.979†	6.1	0.00489	mg/L	0.000690	0.00489	mg/L	0.000690	14.12%
B 249.677†	1.9	0.00038	mg/L	0.000241	0.00038	mg/L	0.000241	64.26%
Ba 233.527†	1.2	0.00019	mg/L	0.000523	0.00019	mg/L	0.000523	269.52%
Be 313.042†	-6.0	-0.00002	mg/L	0.000040	-0.00002	mg/L	0.000040	222.62%
Ca 317.933†	22.4	0.00313	mg/L	0.001290	0.00313	mg/L	0.001290	41.26%
Cd 228.802†	4.0	0.00020	mg/L	0.000072	0.00020	mg/L	0.000072	35.78%
Co 228.616†	5.9	0.00024	mg/L	0.000159	0.00024	mg/L	0.000159	67.58%
Cr 267.716†	-1.6	-0.00028	mg/L	0.001223	-0.00028	mg/L	0.001223	438.87%
Cu 324.752†	-11.7	-0.00008	mg/L	0.000018	-0.00008	mg/L	0.000018	22.67%
Fe 273.955†	11.6	0.01474	mg/L	0.007563	0.01474	mg/L	0.007563	51.33%
K 766.490†	67.1	0.05512	mg/L	0.021721	0.05512	mg/L	0.021721	39.41%
Mg 279.077†	-1.9	-0.00234	mg/L	0.005657	-0.00234	mg/L	0.005657	242.08%
Mn 257.610†	-0.8	-0.00003	mg/L	0.000240	-0.00003	mg/L	0.000240	870.64%
Mo 202.031†	5.1	0.00033	mg/L	0.000171	0.00033	mg/L	0.000171	52.57%
Na 589.592†	919.7	0.1229	mg/L	0.01338	0.1229	mg/L	0.01338	10.89%
Na 330.237†	2.9	0.1692	mg/L	0.81781	0.1692	mg/L	0.81781	483.22%
Ni 231.604†	-1.3	-0.00037	mg/L	0.001872	-0.00037	mg/L	0.001872	510.54%
Pb 220.353†	2.6	0.00039	mg/L	0.000346	0.00039	mg/L	0.000346	89.41%
Sb 206.836†	-1.2	-0.00050	mg/L	0.000568	-0.00050	mg/L	0.000568	112.79%
Se 196.026†	3.5	0.00382	mg/L	0.004906	0.00382	mg/L	0.004906	128.52%
Si 288.158†	9.2	0.00785	mg/L	0.004342	0.00785	mg/L	0.004342	55.29%
Sn 189.927†	-0.3	-0.00009	mg/L	0.001502	-0.00009	mg/L	0.001502	>999.9%
Sr 421.552†	-12.6	-0.00003	mg/L	0.000028	-0.00003	mg/L	0.000028	109.16%
Ti 334.903†	-21.9	-0.00152	mg/L	0.000558	-0.00152	mg/L	0.000558	36.66%
Tl 190.801†	0.6	0.00043	mg/L	0.001299	0.00043	mg/L	0.001299	301.13%
V 292.402†	4.2	0.00004	mg/L	0.000190	0.00004	mg/L	0.000190	468.43%
Zn 206.200†	0.2	0.00008	mg/L	0.000690	0.00008	mg/L	0.000690	878.22%

Sequence No.: 25
Sample ID: SEQ-CCV5

Autosampler Location: 7
Date Collected: 10/28/2016 2:22:52 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCV5

Analyte	Back Pressure	Flow
All	149.0 kPa	0.65 L/min

Mean Data: SEQ-CCV5

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1834323.3	104.8	%	0.14				0.14%
ScR 361.383	202025.8	105.0	%	0.73				0.69%
Ag 328.068†	134995.2	1.042	mg/L	0.0057	1.042	mg/L	0.0057	0.55%
Al 308.215†	1988.0	2.100	mg/L	0.0142	2.100	mg/L	0.0142	0.68%
As 188.979†	2505.4	2.070	mg/L	0.0091	2.070	mg/L	0.0091	0.44%
B 249.677†	5268.7	1.017	mg/L	0.0035	1.017	mg/L	0.0035	0.35%
Ba 233.527†	6130.2	1.033	mg/L	0.0040	1.033	mg/L	0.0040	0.39%
Be 313.042†	338816.0	1.028	mg/L	0.0041	1.028	mg/L	0.0041	0.40%
Ca 317.933†	15407.0	2.152	mg/L	0.0077	2.152	mg/L	0.0077	0.36%
Cd 228.802†	17716.4	1.013	mg/L	0.0069	1.013	mg/L	0.0069	0.68%
Co 228.616†	25581.1	1.010	mg/L	0.0062	1.010	mg/L	0.0062	0.61%
Cr 267.716†	6004.8	1.040	mg/L	0.0050	1.040	mg/L	0.0050	0.49%
Cu 324.752†	143080.9	0.9946	mg/L	0.00499	0.9946	mg/L	0.00499	0.50%
Fe 273.955†	1660.0	2.107	mg/L	0.0152	2.107	mg/L	0.0152	0.72%
K 766.490†	25953.0	21.33	mg/L	0.078	21.33	mg/L	0.078	0.37%
Mg 279.077†	1713.5	2.111	mg/L	0.0087	2.111	mg/L	0.0087	0.41%
Mn 257.610†	28666.1	0.9649	mg/L	0.00352	0.9649	mg/L	0.00352	0.36%
Mo 202.031†	15257.2	0.9823	mg/L	0.00355	0.9823	mg/L	0.00355	0.36%
Na 589.592†	382647.6	51.14	mg/L	0.134	51.14	mg/L	0.134	0.26%
Na 330.237†	917.4	54.35	mg/L	0.358	54.35	mg/L	0.358	0.66%
Ni 231.604†	3731.9	1.044	mg/L	0.0048	1.044	mg/L	0.0048	0.46%
Pb 220.353†	13381.3	2.022	mg/L	0.0096	2.022	mg/L	0.0096	0.47%
Sb 206.836†	5122.3	2.122	mg/L	0.0041	2.122	mg/L	0.0041	0.19%
Se 196.026†	1937.1	2.096	mg/L	0.0102	2.096	mg/L	0.0102	0.49%
Si 288.158†	2488.6	2.117	mg/L	0.0050	2.117	mg/L	0.0050	0.23%
Sn 189.927†	2929.4	1.013	mg/L	0.0049	1.013	mg/L	0.0049	0.49%
Sr 421.552†	508087.6	1.024	mg/L	0.0024	1.024	mg/L	0.0024	0.24%
Ti 334.903†	14499.2	1.008	mg/L	0.0039	1.008	mg/L	0.0039	0.39%
Tl 190.801†	2993.8	2.040	mg/L	0.0007	2.040	mg/L	0.0007	0.04%
V 292.402†	103373.5	1.023	mg/L	0.0050	1.023	mg/L	0.0050	0.49%
Zn 206.200†	3361.3	1.057	mg/L	0.0044	1.057	mg/L	0.0044	0.41%

Sequence No.: 26
Sample ID: SEQ-CCB5

Autosampler Location: 1
Date Collected: 10/28/2016 2:26:54 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCB5

Analyte	Back Pressure	Flow
All	149.0 kPa	0.65 L/min

Mean Data: SEQ-CCB5

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1855935.9	106.0	%	0.35				0.33%
ScR 361.383	205407.2	106.7	%	0.27				0.26%
Ag 328.068†	21.7	0.00017	mg/L	0.000012	0.00017	mg/L	0.000012	6.99%
Al 308.215†	-0.2	-0.00025	mg/L	0.001728	-0.00025	mg/L	0.001728	697.08%
As 188.979†	3.5	0.00282	mg/L	0.003065	0.00282	mg/L	0.003065	108.79%
B 249.677†	7.5	0.00146	mg/L	0.000969	0.00146	mg/L	0.000969	66.35%
Ba 233.527†	9.7	0.00163	mg/L	0.000778	0.00163	mg/L	0.000778	47.58%
Be 313.042†	-43.6	-0.00013	mg/L	0.000064	-0.00013	mg/L	0.000064	48.10%
Ca 317.933†	20.6	0.00288	mg/L	0.003098	0.00288	mg/L	0.003098	107.75%
Cd 228.802†	0.5	0.00001	mg/L	0.000025	0.00001	mg/L	0.000025	321.01%
Co 228.616†	5.9	0.00023	mg/L	0.000254	0.00023	mg/L	0.000254	108.48%
Cr 267.716†	2.0	0.00034	mg/L	0.000550	0.00034	mg/L	0.000550	160.56%
Cu 324.752†	-13.4	-0.00009	mg/L	0.000109	-0.00009	mg/L	0.000109	115.91%
Fe 273.955†	5.3	0.00675	mg/L	0.000564	0.00675	mg/L	0.000564	8.36%
K 766.490†	55.1	0.04529	mg/L	0.002250	0.04529	mg/L	0.002250	4.97%
Mg 279.077†	3.8	0.00472	mg/L	0.012192	0.00472	mg/L	0.012192	258.54%
Mn 257.610†	1.7	0.00006	mg/L	0.000106	0.00006	mg/L	0.000106	183.68%
Mo 202.031†	14.1	0.00091	mg/L	0.000160	0.00091	mg/L	0.000160	17.65%
Na 589.592†	430.6	0.05755	mg/L	0.004812	0.05755	mg/L	0.004812	8.36%
Na 330.237†	17.5	1.038	mg/L	0.5050	1.038	mg/L	0.5050	48.64%
Ni 231.604†	-4.0	-0.00111	mg/L	0.000328	-0.00111	mg/L	0.000328	29.64%
Pb 220.353†	0.1	0.00002	mg/L	0.000613	0.00002	mg/L	0.000613	>999.9%
Sb 206.836†	0.3	0.00014	mg/L	0.000872	0.00014	mg/L	0.000872	639.89%
Se 196.026†	-3.7	-0.00404	mg/L	0.004705	-0.00404	mg/L	0.004705	116.60%
Si 288.158†	-6.7	-0.00566	mg/L	0.001412	-0.00566	mg/L	0.001412	24.94%
Sn 189.927†	0.0	0.00000	mg/L	0.001411	0.00000	mg/L	0.001411	>999.9%
Sr 421.552†	-8.7	-0.00002	mg/L	0.000043	-0.00002	mg/L	0.000043	244.99%
Ti 334.903†	-12.7	-0.00089	mg/L	0.000156	-0.00089	mg/L	0.000156	17.65%
Tl 190.801†	4.2	0.00290	mg/L	0.001449	0.00290	mg/L	0.001449	50.02%
V 292.402†	-13.8	-0.00013	mg/L	0.000231	-0.00013	mg/L	0.000231	172.21%
Zn 206.200†	5.3	0.00166	mg/L	0.000693	0.00166	mg/L	0.000693	41.77%

Sequence No.: 27
Sample ID: BEJ0633-BLK1

Autosampler Location: 334
Date Collected: 10/28/2016 2:30:54 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0633-BLK1

Analyte	Back Pressure	Flow
All	149.0 kPa	0.65 L/min

Mean Data: BEJ0633-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1864487.6	106.5	%	0.05				0.05%
ScR 361.383	205144.8	106.6	%	0.29				0.28%
Ag 328.068†	10.0	0.00008	mg/L	0.000064	0.00008	mg/L	0.000064	82.47%
Al 308.215†	3.5	0.00379	mg/L	0.006007	0.00379	mg/L	0.006007	158.70%
As 188.979†	3.4	0.00273	mg/L	0.002556	0.00273	mg/L	0.002556	93.55%
B 249.677†	4.0	0.00078	mg/L	0.001517	0.00078	mg/L	0.001517	195.66%
Ba 233.527†	6.3	0.00107	mg/L	0.000636	0.00107	mg/L	0.000636	59.51%
Be 313.042†	-36.8	-0.00011	mg/L	0.000023	-0.00011	mg/L	0.000023	20.66%
Ca 317.933†	84.2	0.01176	mg/L	0.002448	0.01176	mg/L	0.002448	20.82%
Cd 228.802†	-1.7	-0.00012	mg/L	0.000302	-0.00012	mg/L	0.000302	253.06%
Co 228.616†	0.4	0.00002	mg/L	0.000051	0.00002	mg/L	0.000051	273.37%
Cr 267.716†	0.4	0.00006	mg/L	0.000723	0.00006	mg/L	0.000723	>999.9%
Cu 324.752†	238.3	0.00166	mg/L	0.000138	0.00166	mg/L	0.000138	8.32%
Fe 273.955†	8.1	0.01035	mg/L	0.002731	0.01035	mg/L	0.002731	26.38%
K 766.490†	56.3	0.04629	mg/L	0.014812	0.04629	mg/L	0.014812	32.00%
Mg 279.077†	1.9	0.00228	mg/L	0.008460	0.00228	mg/L	0.008460	371.36%
Mn 257.610†	2.0	0.00007	mg/L	0.000108	0.00007	mg/L	0.000108	163.69%
Mo 202.031†	-0.6	-0.00004	mg/L	0.000333	-0.00004	mg/L	0.000333	931.39%
Na 589.592†	369.4	0.04936	mg/L	0.001293	0.04936	mg/L	0.001293	2.62%
Na 330.237†	11.3	0.6682	mg/L	0.40583	0.6682	mg/L	0.40583	60.74%
Ni 231.604†	-4.3	-0.00120	mg/L	0.000823	-0.00120	mg/L	0.000823	68.86%
Pb 220.353†	2.9	0.00044	mg/L	0.000320	0.00044	mg/L	0.000320	73.02%
Sb 206.836†	-5.8	-0.00240	mg/L	0.001441	-0.00240	mg/L	0.001441	59.93%
Se 196.026†	0.8	0.00088	mg/L	0.001696	0.00088	mg/L	0.001696	193.03%
Si 288.158†	7.0	0.00596	mg/L	0.002303	0.00596	mg/L	0.002303	38.66%
Sn 189.927†	1.6	0.00056	mg/L	0.001942	0.00056	mg/L	0.001942	345.59%
Sr 421.552†	-7.7	-0.00002	mg/L	0.000049	-0.00002	mg/L	0.000049	317.54%
Ti 334.903†	-25.3	-0.00176	mg/L	0.000548	-0.00176	mg/L	0.000548	31.12%
Tl 190.801†	-0.3	-0.00022	mg/L	0.001596	-0.00022	mg/L	0.001596	730.77%
V 292.402†	-3.6	-0.00003	mg/L	0.000064	-0.00003	mg/L	0.000064	185.18%
Zn 206.200†	4.6	0.00146	mg/L	0.000683	0.00146	mg/L	0.000683	46.88%

Sequence No.: 28
Sample ID: 16J0341-05

Autosampler Location: 335
Date Collected: 10/28/2016 2:34:55 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0341-05

Analyte	Back Pressure	Flow
All	148.0 kPa	0.65 L/min

Mean Data: 16J0341-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Calib. Std.Dev.	Sample Conc.	Sample Units	Sample Std.Dev.	RSD
ScA 357.253	1824802.9	104.2	%	0.50				0.48%
ScR 361.383	200577.8	104.2	%	0.65				0.63%
Ag 328.068†	-39.2	-0.00030	mg/L	0.000042	-0.00030	mg/L	0.000042	14.03%
Al 308.215†	7.8	0.00824	mg/L	0.002897	0.00824	mg/L	0.002897	35.17%
As 188.979†	23.3	0.01624	mg/L	0.002029	0.01624	mg/L	0.002029	12.50%
B 249.677†	694.6	0.1344	mg/L	0.00348	0.1344	mg/L	0.00348	2.59%
Ba 233.527†	729.0	0.1189	mg/L	0.00089	0.1189	mg/L	0.00089	0.75%
Be 313.042†	12.0	0.00004	mg/L	0.000023	0.00004	mg/L	0.000023	62.66%
Ca 317.933†	353091.6	49.33	mg/L	0.432	49.33	mg/L	0.432	0.88%
Cd 228.802†	2.6	-0.00027	mg/L	0.000119	-0.00027	mg/L	0.000119	43.61%
Co 228.616†	24.1	0.00093	mg/L	0.000071	0.00093	mg/L	0.000071	7.62%
Cr 267.716†	10.8	0.00032	mg/L	0.000269	0.00032	mg/L	0.000269	84.95%
Cu 324.752†	-81.5	0.00074	mg/L	0.000207	0.00074	mg/L	0.000207	28.06%
Fe 273.955†	28647.4	36.51	mg/L	0.595	36.51	mg/L	0.595	1.63%
K 766.490†	17290.3	14.21	mg/L	0.186	14.21	mg/L	0.186	1.31%
Mg 279.077†	37186.2	45.62	mg/L	0.688	45.62	mg/L	0.688	1.51%
Mn 257.610†	37511.2	1.262	mg/L	0.0190	1.262	mg/L	0.0190	1.51%
Mo 202.031†	68.8	0.00370	mg/L	0.000294	0.00370	mg/L	0.000294	7.95%
Na 589.592†	1833522.0	245.0	mg/L	0.24	245.0	mg/L	0.24	0.10%
Na 330.237†	4195.5	249.3	mg/L	2.16	249.3	mg/L	2.16	0.87%
Ni 231.604†	6.3	0.00176	mg/L	0.001613	0.00176	mg/L	0.001613	91.56%
Pb 220.353†	-3.3	-0.00050	mg/L	0.000689	-0.00050	mg/L	0.000689	138.99%
Sb 206.836†	2.8	0.00087	mg/L	0.004128	0.00087	mg/L	0.004128	476.92%
Se 196.026†	16.6	0.01796	mg/L	0.006400	0.01796	mg/L	0.006400	35.63%
Si 288.158†	23933.4	20.39	mg/L	0.276	20.39	mg/L	0.276	1.35%
Sn 189.927†	-89.1	-0.01956	mg/L	0.001037	-0.01956	mg/L	0.001037	5.30%
Sr 421.552†	257025.5	0.5179	mg/L	0.00090	0.5179	mg/L	0.00090	0.17%
Ti 334.903†	69.4	0.00128	mg/L	0.000726	0.00128	mg/L	0.000726	56.55%
Tl 190.801†	3.0	0.00386	mg/L	0.002731	0.00386	mg/L	0.002731	70.74%
V 292.402†	155.5	0.00035	mg/L	0.000087	0.00035	mg/L	0.000087	24.96%
Zn 206.200†	-8.1	0.00147	mg/L	0.000504	0.00147	mg/L	0.000504	34.39%

Sequence No.: 29
Sample ID: 16J0341-06

Dilution: 1.000000X

Autosampler Location: 336
Date Collected: 10/28/2016 2:39:11 PM
Data Type: Original

Nebulizer Parameters: 16J0341-06

Analyte	Back Pressure	Flow
All	149.0 kPa	0.65 L/min

Mean Data: 16J0341-06

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1822515.4	104.1	%	0.33				0.32%
ScR 361.383	205693.8	106.9	%	0.25				0.23%
Ag 328.068†	-87.2	-0.00067	mg/L	0.000386	-0.00067	mg/L	0.000386	57.34%
Al 308.215†	4.2	0.00443	mg/L	0.002057	0.00443	mg/L	0.002057	46.44%
As 188.979†	16.1	0.00814	mg/L	0.001940	0.00814	mg/L	0.001940	23.84%
B 249.677†	1367.6	0.2645	mg/L	0.00341	0.2645	mg/L	0.00341	1.29%
Ba 233.527†	3195.0	0.5357	mg/L	0.00362	0.5357	mg/L	0.00362	0.68%
Be 313.042†	3.5	0.00001	mg/L	0.000064	0.00001	mg/L	0.000064	622.22%
Ca 317.933†	625690.9	87.41	mg/L	0.365	87.41	mg/L	0.365	0.42%
Cd 228.802†	-4.8	-0.00059	mg/L	0.000119	-0.00059	mg/L	0.000119	20.05%
Co 228.616†	86.7	0.00337	mg/L	0.000058	0.00337	mg/L	0.000058	1.73%
Cr 267.716†	7.8	0.00017	mg/L	0.000131	0.00017	mg/L	0.000131	77.14%
Cu 324.752†	14.5	0.00084	mg/L	0.000217	0.00084	mg/L	0.000217	25.75%
Fe 273.955†	21267.6	27.11	mg/L	0.117	27.11	mg/L	0.117	0.43%
K 766.490†	22619.8	18.59	mg/L	0.080	18.59	mg/L	0.080	0.43%
Mg 279.077†	27923.7	34.26	mg/L	0.160	34.26	mg/L	0.160	0.47%
Mn 257.610†	24859.5	0.8362	mg/L	0.00244	0.8362	mg/L	0.00244	0.29%
Mo 202.031†	74.5	0.00351	mg/L	0.000209	0.00351	mg/L	0.000209	5.96%
Na 589.592†	4086837.6	546.1	mg/L	1.72	546.1	mg/L	1.72	0.32%
Na 330.237†	9681.5	575.2	mg/L	0.57	575.2	mg/L	0.57	0.10%
Ni 231.604†	18.6	0.00521	mg/L	0.000534	0.00521	mg/L	0.000534	10.26%
Pb 220.353†	-2.3	-0.00035	mg/L	0.000957	-0.00035	mg/L	0.000957	274.63%
Sb 206.836†	4.4	0.00149	mg/L	0.000734	0.00149	mg/L	0.000734	49.36%
Se 196.026†	18.1	0.01956	mg/L	0.004162	0.01956	mg/L	0.004162	21.28%
Si 288.158†	13063.8	11.13	mg/L	0.015	11.13	mg/L	0.015	0.13%
Sn 189.927†	-108.0	-0.01739	mg/L	0.000499	-0.01739	mg/L	0.000499	2.87%
Sr 421.552†	435633.5	0.8778	mg/L	0.00214	0.8778	mg/L	0.00214	0.24%
Ti 334.903†	98.8	0.00059	mg/L	0.001395	0.00059	mg/L	0.001395	235.53%
Tl 190.801†	9.8	0.00544	mg/L	0.000938	0.00544	mg/L	0.000938	17.23%
V 292.402†	104.5	0.00013	mg/L	0.000068	0.00013	mg/L	0.000068	51.31%
Zn 206.200†	-2.1	0.00149	mg/L	0.000861	0.00149	mg/L	0.000861	57.94%

Sequence No.: 30
Sample ID: 16J0341-07

Autosampler Location: 337
Date Collected: 10/28/2016 2:43:43 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0341-07

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: 16J0341-07

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1877527.4	107.3	%	0.35				0.33%
ScR 361.383	208112.0	108.1	%	0.45				0.42%
Ag 328.068†	-38.6	-0.00030	mg/L	0.000327	-0.00030	mg/L	0.000327	110.17%
Al 308.215†	11.2	0.01197	mg/L	0.002064	0.01197	mg/L	0.002064	17.24%
As 188.979†	11.3	0.00775	mg/L	0.002574	0.00775	mg/L	0.002574	33.23%
B 249.677†	1244.1	0.2406	mg/L	0.00196	0.2406	mg/L	0.00196	0.82%
Ba 233.527†	279.2	0.04509	mg/L	0.000880	0.04509	mg/L	0.000880	1.95%
Be 313.042†	6.0	0.00002	mg/L	0.000053	0.00002	mg/L	0.000053	302.75%
Ca 317.933†	203033.4	28.36	mg/L	0.057	28.36	mg/L	0.057	0.20%
Cd 228.802†	-1.8	-0.00031	mg/L	0.000039	-0.00031	mg/L	0.000039	12.44%
Co 228.616†	65.6	0.00258	mg/L	0.000154	0.00258	mg/L	0.000154	5.98%
Cr 267.716†	5.1	0.00076	mg/L	0.000505	0.00076	mg/L	0.000505	66.75%
Cu 324.752†	1383.5	0.01017	mg/L	0.000142	0.01017	mg/L	0.000142	1.40%
Fe 273.955†	14119.4	18.00	mg/L	0.147	18.00	mg/L	0.147	0.82%
K 766.490†	41404.7	34.03	mg/L	0.095	34.03	mg/L	0.095	0.28%
Mg 279.077†	11485.3	14.09	mg/L	0.103	14.09	mg/L	0.103	0.73%
Mn 257.610†	23053.9	0.7755	mg/L	0.00576	0.7755	mg/L	0.00576	0.74%
Mo 202.031†	45.5	0.00251	mg/L	0.000113	0.00251	mg/L	0.000113	4.52%
Na 589.592†	424734.4	56.76	mg/L	0.237	56.76	mg/L	0.237	0.42%
Na 330.237†	992.8	58.98	mg/L	0.860	58.98	mg/L	0.860	1.46%
Ni 231.604†	6.1	0.00171	mg/L	0.000791	0.00171	mg/L	0.000791	46.17%
Pb 220.353†	1.7	0.00025	mg/L	0.000775	0.00025	mg/L	0.000775	309.42%
Sb 206.836†	-0.9	-0.00055	mg/L	0.001674	-0.00055	mg/L	0.001674	306.65%
Se 196.026†	22.7	0.02462	mg/L	0.006149	0.02462	mg/L	0.006149	24.97%
Si 288.158†	20598.2	17.55	mg/L	0.144	17.55	mg/L	0.144	0.82%
Sn 189.927†	-60.2	-0.01434	mg/L	0.000206	-0.01434	mg/L	0.000206	1.44%
Sr 421.552†	81044.4	0.1633	mg/L	0.00050	0.1633	mg/L	0.00050	0.30%
Ti 334.903†	107.0	0.00540	mg/L	0.001120	0.00540	mg/L	0.001120	20.72%
Tl 190.801†	7.1	0.00556	mg/L	0.002795	0.00556	mg/L	0.002795	50.25%
V 292.402†	277.9	0.00218	mg/L	0.000332	0.00218	mg/L	0.000332	15.28%
Zn 206.200†	34.5	0.01430	mg/L	0.000269	0.01430	mg/L	0.000269	1.88%

Sequence No.: 31
Sample ID: 16J0341-08

Autosampler Location: 338
Date Collected: 10/28/2016 2:47:57 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0341-08

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: 16J0341-08

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1883256.0	107.6	%	0.68				0.63%
ScR 361.383	207272.8	107.7	%	0.40				0.37%
Ag 328.068†	-19.7	-0.00015	mg/L	0.000100	-0.00015	mg/L	0.000100	66.24%
Al 308.215†	14.6	0.01555	mg/L	0.004579	0.01555	mg/L	0.004579	29.45%
As 188.979†	11.2	0.00760	mg/L	0.002642	0.00760	mg/L	0.002642	34.78%
B 249.677†	1275.9	0.2468	mg/L	0.00195	0.2468	mg/L	0.00195	0.79%
Ba 233.527†	268.7	0.04331	mg/L	0.000806	0.04331	mg/L	0.000806	1.86%
Be 313.042†	-26.0	-0.00008	mg/L	0.000041	-0.00008	mg/L	0.000041	51.71%
Ca 317.933†	207537.8	28.99	mg/L	0.139	28.99	mg/L	0.139	0.48%
Cd 228.802†	-1.8	-0.00031	mg/L	0.000407	-0.00031	mg/L	0.000407	130.48%
Co 228.616†	59.0	0.00232	mg/L	0.000173	0.00232	mg/L	0.000173	7.47%
Cr 267.716†	9.4	0.00147	mg/L	0.000808	0.00147	mg/L	0.000808	54.79%
Cu 324.752†	-62.2	0.00011	mg/L	0.000071	0.00011	mg/L	0.000071	62.48%
Fe 273.955†	14237.0	18.15	mg/L	0.112	18.15	mg/L	0.112	0.62%
K 766.490†	42386.9	34.83	mg/L	0.125	34.83	mg/L	0.125	0.36%
Mg 279.077†	11776.3	14.44	mg/L	0.087	14.44	mg/L	0.087	0.60%
Mn 257.610†	23570.0	0.7929	mg/L	0.00536	0.7929	mg/L	0.00536	0.68%
Mo 202.031†	48.0	0.00266	mg/L	0.000376	0.00266	mg/L	0.000376	14.11%
Na 589.592†	435160.3	58.15	mg/L	0.068	58.15	mg/L	0.068	0.12%
Na 330.237†	1025.6	60.93	mg/L	0.368	60.93	mg/L	0.368	0.60%
Ni 231.604†	7.1	0.00198	mg/L	0.001814	0.00198	mg/L	0.001814	91.49%
Pb 220.353†	5.6	0.00085	mg/L	0.001258	0.00085	mg/L	0.001258	147.16%
Sb 206.836†	-4.7	-0.00212	mg/L	0.000769	-0.00212	mg/L	0.000769	36.30%
Se 196.026†	4.5	0.00481	mg/L	0.005468	0.00481	mg/L	0.005468	113.59%
Si 288.158†	21099.9	17.98	mg/L	0.101	17.98	mg/L	0.101	0.56%
Sn 189.927†	-53.4	-0.01184	mg/L	0.000420	-0.01184	mg/L	0.000420	3.54%
Sr 421.552†	82989.7	0.1672	mg/L	0.00003	0.1672	mg/L	0.00003	0.02%
Ti 334.903†	74.7	0.00311	mg/L	0.000058	0.00311	mg/L	0.000058	1.86%
Tl 190.801†	1.0	0.00131	mg/L	0.001248	0.00131	mg/L	0.001248	94.94%
V 292.402†	310.7	0.00250	mg/L	0.000254	0.00250	mg/L	0.000254	10.15%
Zn 206.200†	-3.6	0.00239	mg/L	0.000453	0.00239	mg/L	0.000453	18.95%

Sequence No.: 32
Sample ID: 16J0341-09

Autosampler Location: 339
Date Collected: 10/28/2016 2:52:11 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0341-09

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: 16J0341-09

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1914790.5	109.4	%	0.29				0.26%
ScR 361.383	209472.4	108.8	%	0.72				0.66%
Ag 328.068†	15.7	0.00012	mg/L	0.000246	0.00012	mg/L	0.000246	202.52%
Al 308.215†	2.6	0.00275	mg/L	0.012174	0.00275	mg/L	0.012174	443.31%
As 188.979†	1.0	0.00078	mg/L	0.001935	0.00078	mg/L	0.001935	247.42%
B 249.677†	2.6	0.00051	mg/L	0.000316	0.00051	mg/L	0.000316	61.84%
Ba 233.527†	7.2	0.00122	mg/L	0.000072	0.00122	mg/L	0.000072	5.94%
Be 313.042†	-42.4	-0.00013	mg/L	0.000018	-0.00013	mg/L	0.000018	14.30%
Ca 317.933†	230.9	0.03225	mg/L	0.000915	0.03225	mg/L	0.000915	2.84%
Cd 228.802†	-1.8	-0.00011	mg/L	0.000293	-0.00011	mg/L	0.000293	263.11%
Co 228.616†	5.7	0.00023	mg/L	0.000122	0.00023	mg/L	0.000122	52.58%
Cr 267.716†	-0.1	-0.00002	mg/L	0.000023	-0.00002	mg/L	0.000023	107.69%
Cu 324.752†	756.5	0.00526	mg/L	0.000134	0.00526	mg/L	0.000134	2.55%
Fe 273.955†	9.2	0.01167	mg/L	0.002675	0.01167	mg/L	0.002675	22.93%
K 766.490†	88.9	0.07303	mg/L	0.023445	0.07303	mg/L	0.023445	32.10%
Mg 279.077†	10.9	0.01332	mg/L	0.004359	0.01332	mg/L	0.004359	32.72%
Mn 257.610†	11.3	0.00038	mg/L	0.000109	0.00038	mg/L	0.000109	28.60%
Mo 202.031†	2.8	0.00018	mg/L	0.000158	0.00018	mg/L	0.000158	87.70%
Na 589.592†	963.1	0.1287	mg/L	0.01009	0.1287	mg/L	0.01009	7.84%
Na 330.237†	8.2	0.4860	mg/L	0.49549	0.4860	mg/L	0.49549	101.95%
Ni 231.604†	-0.3	-0.00007	mg/L	0.000772	-0.00007	mg/L	0.000772	>999.9%
Pb 220.353†	4.5	0.00067	mg/L	0.001174	0.00067	mg/L	0.001174	176.45%
Sb 206.836†	-3.2	-0.00131	mg/L	0.001740	-0.00131	mg/L	0.001740	132.65%
Se 196.026†	3.5	0.00377	mg/L	0.003699	0.00377	mg/L	0.003699	98.15%
Si 288.158†	-4.7	-0.00399	mg/L	0.004549	-0.00399	mg/L	0.004549	114.00%
Sn 189.927†	1.2	0.00042	mg/L	0.000408	0.00042	mg/L	0.000408	96.17%
Sr 421.552†	44.4	0.00009	mg/L	0.000021	0.00009	mg/L	0.000021	23.95%
Ti 334.903†	-31.4	-0.00219	mg/L	0.001182	-0.00219	mg/L	0.001182	54.04%
Tl 190.801†	0.2	0.00016	mg/L	0.002159	0.00016	mg/L	0.002159	>999.9%
V 292.402†	-5.8	-0.00006	mg/L	0.000159	-0.00006	mg/L	0.000159	284.65%
Zn 206.200†	17.0	0.00536	mg/L	0.000460	0.00536	mg/L	0.000460	8.60%

Sequence No.: 33
Sample ID: BEJ0633-DUP1

Autosampler Location: 340
Date Collected: 10/28/2016 2:56:10 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0633-DUP1

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: BEJ0633-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1898635.1	108.5	%	0.49				0.45%
ScR 361.383	207034.3	107.6	%	0.30				0.28%
Ag 328.068†	11.6	0.00009	mg/L	0.000469	0.00009	mg/L	0.000469	524.21%
Al 308.215†	81.2	0.08707	mg/L	0.008979	0.08707	mg/L	0.008979	10.31%
As 188.979†	4.8	0.00374	mg/L	0.000331	0.00374	mg/L	0.000331	8.84%
B 249.677†	37.0	0.00716	mg/L	0.001281	0.00716	mg/L	0.001281	17.89%
Ba 233.527†	44.1	0.00742	mg/L	0.000404	0.00742	mg/L	0.000404	5.44%
Be 313.042†	-28.8	-0.00009	mg/L	0.000107	-0.00009	mg/L	0.000107	122.86%
Ca 317.933†	25833.5	3.609	mg/L	0.0053	3.609	mg/L	0.0053	0.15%
Cd 228.802†	-1.9	-0.00014	mg/L	0.000292	-0.00014	mg/L	0.000292	215.79%
Co 228.616†	1.8	0.00007	mg/L	0.000169	0.00007	mg/L	0.000169	246.22%
Cr 267.716†	4.3	0.00074	mg/L	0.001162	0.00074	mg/L	0.001162	157.46%
Cu 324.752†	1789.7	0.01244	mg/L	0.000120	0.01244	mg/L	0.000120	0.97%
Fe 273.955†	86.2	0.1099	mg/L	0.00528	0.1099	mg/L	0.00528	4.81%
K 766.490†	782.9	0.6434	mg/L	0.01351	0.6434	mg/L	0.01351	2.10%
Mg 279.077†	166.7	0.2046	mg/L	0.00517	0.2046	mg/L	0.00517	2.53%
Mn 257.610†	199.7	0.00671	mg/L	0.000135	0.00671	mg/L	0.000135	2.01%
Mo 202.031†	10.4	0.00062	mg/L	0.000272	0.00062	mg/L	0.000272	43.91%
Na 589.592†	6093.4	0.8143	mg/L	0.01259	0.8143	mg/L	0.01259	1.55%
Na 330.237†	19.9	1.175	mg/L	0.6202	1.175	mg/L	0.6202	52.77%
Ni 231.604†	1.5	0.00041	mg/L	0.000340	0.00041	mg/L	0.000340	83.83%
Pb 220.353†	2.4	0.00037	mg/L	0.000725	0.00037	mg/L	0.000725	196.97%
Sb 206.836†	0.3	0.00010	mg/L	0.001658	0.00010	mg/L	0.001658	>999.9%
Se 196.026†	1.8	0.00195	mg/L	0.003991	0.00195	mg/L	0.003991	204.56%
Si 288.158†	822.4	0.7005	mg/L	0.00451	0.7005	mg/L	0.00451	0.64%
Sn 189.927†	-11.4	-0.00312	mg/L	0.000252	-0.00312	mg/L	0.000252	8.06%
Sr 421.552†	6891.0	0.01389	mg/L	0.000043	0.01389	mg/L	0.000043	0.31%
Ti 334.903†	24.4	0.00144	mg/L	0.001572	0.00144	mg/L	0.001572	109.55%
Tl 190.801†	2.6	0.00160	mg/L	0.001592	0.00160	mg/L	0.001592	99.75%
V 292.402†	68.0	0.00067	mg/L	0.000372	0.00067	mg/L	0.000372	55.65%
Zn 206.200†	41.8	0.01328	mg/L	0.001025	0.01328	mg/L	0.001025	7.72%

Sequence No.: 34
Sample ID: 16J0247-01

Autosampler Location: 341
Date Collected: 10/28/2016 3:00:09 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0247-01

Analyte	Back Pressure	Flow
All	149.0 kPa	0.65 L/min

Mean Data: 16J0247-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1886430.8	107.8	%	0.72				0.67%
ScR 361.383	209074.7	108.6	%	0.23				0.21%
Ag 328.068†	-21.4	-0.00016	mg/L	0.000392	-0.00016	mg/L	0.000392	238.00%
Al 308.215†	82.2	0.08814	mg/L	0.007781	0.08814	mg/L	0.007781	8.83%
As 188.979†	6.2	0.00485	mg/L	0.001873	0.00485	mg/L	0.001873	38.61%
B 249.677†	37.2	0.00719	mg/L	0.001130	0.00719	mg/L	0.001130	15.72%
Ba 233.527†	47.3	0.00797	mg/L	0.000172	0.00797	mg/L	0.000172	2.16%
Be 313.042†	-37.8	-0.00011	mg/L	0.000027	-0.00011	mg/L	0.000027	23.48%
Ca 317.933†	25370.1	3.544	mg/L	0.0109	3.544	mg/L	0.0109	0.31%
Cd 228.802†	-1.5	-0.00012	mg/L	0.000217	-0.00012	mg/L	0.000217	179.66%
Co 228.616†	3.4	0.00013	mg/L	0.000133	0.00013	mg/L	0.000133	101.18%
Cr 267.716†	6.7	0.00116	mg/L	0.000367	0.00116	mg/L	0.000367	31.74%
Cu 324.752†	998.4	0.00694	mg/L	0.000133	0.00694	mg/L	0.000133	1.92%
Fe 273.955†	80.2	0.1023	mg/L	0.00160	0.1023	mg/L	0.00160	1.56%
K 766.490†	792.8	0.6515	mg/L	0.01044	0.6515	mg/L	0.01044	1.60%
Mg 279.077†	170.7	0.2095	mg/L	0.00158	0.2095	mg/L	0.00158	0.75%
Mn 257.610†	191.5	0.00644	mg/L	0.000220	0.00644	mg/L	0.000220	3.42%
Mo 202.031†	10.7	0.00064	mg/L	0.000346	0.00064	mg/L	0.000346	54.24%
Na 589.592†	5729.9	0.7657	mg/L	0.00443	0.7657	mg/L	0.00443	0.58%
Na 330.237†	35.8	2.121	mg/L	0.2506	2.121	mg/L	0.2506	11.82%
Ni 231.604†	1.6	0.00045	mg/L	0.000085	0.00045	mg/L	0.000085	18.65%
Pb 220.353†	5.3	0.00082	mg/L	0.000966	0.00082	mg/L	0.000966	118.12%
Sb 206.836†	1.1	0.00042	mg/L	0.001846	0.00042	mg/L	0.001846	434.44%
Se 196.026†	2.0	0.00212	mg/L	0.001400	0.00212	mg/L	0.001400	65.88%
Si 288.158†	796.1	0.6782	mg/L	0.00652	0.6782	mg/L	0.00652	0.96%
Sn 189.927†	-7.9	-0.00190	mg/L	0.000209	-0.00190	mg/L	0.000209	10.97%
Sr 421.552†	6797.0	0.01370	mg/L	0.000034	0.01370	mg/L	0.000034	0.25%
Ti 334.903†	16.1	0.00087	mg/L	0.000410	0.00087	mg/L	0.000410	47.28%
Tl 190.801†	1.9	0.00112	mg/L	0.003025	0.00112	mg/L	0.003025	271.27%
V 292.402†	87.6	0.00086	mg/L	0.000102	0.00086	mg/L	0.000102	11.85%
Zn 206.200†	41.6	0.01322	mg/L	0.000688	0.01322	mg/L	0.000688	5.21%

Sequence No.: 35
Sample ID: BEJ0633-MS1

Autosampler Location: 342
Date Collected: 10/28/2016 3:04:08 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0633-MS1

Analyte	Back Pressure	Flow
All	149.0 kPa	0.65 L/min

Mean Data: BEJ0633-MS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1873757.1	107.0	%	0.53				0.50%
ScR 361.383	206077.0	107.1	%	0.19				0.18%
Ag 328.068†	66120.9	0.5104	mg/L	0.00432	0.5104	mg/L	0.00432	0.85%
Al 308.215†	2005.2	2.145	mg/L	0.0062	2.145	mg/L	0.0062	0.29%
As 188.979†	2508.9	2.045	mg/L	0.0159	2.045	mg/L	0.0159	0.78%
B 249.677†	25.9	0.00365	mg/L	0.001005	0.00365	mg/L	0.001005	27.54%
Ba 233.527†	12098.9	2.039	mg/L	0.0044	2.039	mg/L	0.0044	0.22%
Be 313.042†	167454.7	0.5079	mg/L	0.00391	0.5079	mg/L	0.00391	0.77%
Ca 317.933†	98849.3	13.81	mg/L	0.074	13.81	mg/L	0.074	0.53%
Cd 228.802†	8772.8	0.4955	mg/L	0.00256	0.4955	mg/L	0.00256	0.52%
Co 228.616†	12613.8	0.4987	mg/L	0.00325	0.4987	mg/L	0.00325	0.65%
Cr 267.716†	2954.3	0.5105	mg/L	0.00092	0.5105	mg/L	0.00092	0.18%
Cu 324.752†	71538.3	0.4976	mg/L	0.00417	0.4976	mg/L	0.00417	0.84%
Fe 273.955†	1729.2	2.200	mg/L	0.0096	2.200	mg/L	0.0096	0.44%
K 766.490†	13584.9	11.16	mg/L	0.051	11.16	mg/L	0.051	0.45%
Mg 279.077†	8766.9	10.76	mg/L	0.054	10.76	mg/L	0.054	0.51%
Mn 257.610†	14914.8	0.5023	mg/L	0.00186	0.5023	mg/L	0.00186	0.37%
Mo 202.031†	24.3	0.00136	mg/L	0.000102	0.00136	mg/L	0.000102	7.49%
Na 589.592†	81802.0	10.93	mg/L	0.051	10.93	mg/L	0.051	0.47%
Na 330.237†	207.4	12.13	mg/L	0.367	12.13	mg/L	0.367	3.02%
Ni 231.604†	1837.1	0.5129	mg/L	0.00198	0.5129	mg/L	0.00198	0.39%
Pb 220.353†	13230.9	1.999	mg/L	0.0173	1.999	mg/L	0.0173	0.87%
Sb 206.836†	10.0	-0.00205	mg/L	0.001790	-0.00205	mg/L	0.001790	87.24%
Se 196.026†	1894.5	2.050	mg/L	0.0139	2.050	mg/L	0.0139	0.68%
Si 288.158†	795.0	0.6802	mg/L	0.00613	0.6802	mg/L	0.00613	0.90%
Sn 189.927†	-34.0	-0.00852	mg/L	0.000480	-0.00852	mg/L	0.000480	5.63%
Sr 421.552†	255980.1	0.5158	mg/L	0.00241	0.5158	mg/L	0.00241	0.47%
Ti 334.903†	46.9	0.00215	mg/L	0.000118	0.00215	mg/L	0.000118	5.49%
Tl 190.801†	2975.6	2.030	mg/L	0.0157	2.030	mg/L	0.0157	0.77%
V 292.402†	51795.6	0.5125	mg/L	0.00320	0.5125	mg/L	0.00320	0.62%
Zn 206.200†	1660.4	0.5221	mg/L	0.00316	0.5221	mg/L	0.00316	0.61%

Sequence No.: 36
Sample ID: BEJ0633-BS1

Autosampler Location: 343
Date Collected: 10/28/2016 3:08:07 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0633-BS1

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: BEJ0633-BS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1856758.6	106.1	%	0.13				0.12%
ScR 361.383	205208.8	106.6	%	0.68				0.64%
Ag 328.068†	67557.9	0.5215	mg/L	0.00098	0.5215	mg/L	0.00098	0.19%
Al 308.215†	1956.3	2.092	mg/L	0.0125	2.092	mg/L	0.0125	0.60%
As 188.979†	2544.8	2.074	mg/L	0.0038	2.074	mg/L	0.0038	0.18%
B 249.677†	2.5	-0.00090	mg/L	0.001695	-0.00090	mg/L	0.001695	187.90%
Ba 233.527†	12159.4	2.050	mg/L	0.0150	2.050	mg/L	0.0150	0.73%
Be 313.042†	168001.3	0.5096	mg/L	0.00069	0.5096	mg/L	0.00069	0.14%
Ca 317.933†	73351.4	10.25	mg/L	0.024	10.25	mg/L	0.024	0.24%
Cd 228.802†	8951.0	0.5056	mg/L	0.00129	0.5056	mg/L	0.00129	0.26%
Co 228.616†	12865.9	0.5086	mg/L	0.00133	0.5086	mg/L	0.00133	0.26%
Cr 267.716†	2972.7	0.5137	mg/L	0.00384	0.5137	mg/L	0.00384	0.75%
Cu 324.752†	71852.6	0.4997	mg/L	0.00085	0.4997	mg/L	0.00085	0.17%
Fe 273.955†	1665.7	2.119	mg/L	0.0079	2.119	mg/L	0.0079	0.37%
K 766.490†	13049.8	10.72	mg/L	0.053	10.72	mg/L	0.053	0.49%
Mg 279.077†	8660.6	10.63	mg/L	0.072	10.63	mg/L	0.072	0.68%
Mn 257.610†	14809.9	0.4987	mg/L	0.00287	0.4987	mg/L	0.00287	0.58%
Mo 202.031†	19.7	0.00112	mg/L	0.000327	0.00112	mg/L	0.000327	29.32%
Na 589.592†	77177.5	10.31	mg/L	0.023	10.31	mg/L	0.023	0.22%
Na 330.237†	193.9	11.33	mg/L	0.195	11.33	mg/L	0.195	1.72%
Ni 231.604†	1850.5	0.5166	mg/L	0.00386	0.5166	mg/L	0.00386	0.75%
Pb 220.353†	13483.0	2.037	mg/L	0.0099	2.037	mg/L	0.0099	0.49%
Sb 206.836†	9.8	-0.00213	mg/L	0.001510	-0.00213	mg/L	0.001510	71.05%
Se 196.026†	1928.5	2.087	mg/L	0.0038	2.087	mg/L	0.0038	0.18%
Si 288.158†	3.5	0.00603	mg/L	0.004292	0.00603	mg/L	0.004292	71.19%
Sn 189.927†	-27.8	-0.00719	mg/L	0.000548	-0.00719	mg/L	0.000548	7.63%
Sr 421.552†	251485.7	0.5068	mg/L	0.00100	0.5068	mg/L	0.00100	0.20%
Ti 334.903†	7.7	-0.00032	mg/L	0.000188	-0.00032	mg/L	0.000188	58.39%
Tl 190.801†	3024.2	2.064	mg/L	0.0029	2.064	mg/L	0.0029	0.14%
V 292.402†	52610.7	0.5206	mg/L	0.00068	0.5206	mg/L	0.00068	0.13%
Zn 206.200†	1632.6	0.5132	mg/L	0.00433	0.5132	mg/L	0.00433	0.84%

Sequence No.: 37
Sample ID: SEQ-CCV6

Autosampler Location: 7
Date Collected: 10/28/2016 3:12:06 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCV6

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: SEQ-CCV6

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1858893.4	106.2	%	0.57				0.54%
ScR 361.383	203372.4	105.7	%	0.58				0.55%
Ag 328.068†	133258.2	1.029	mg/L	0.0073	1.029	mg/L	0.0073	0.71%
Al 308.215†	1969.3	2.081	mg/L	0.0023	2.081	mg/L	0.0023	0.11%
As 188.979†	2480.1	2.049	mg/L	0.0246	2.049	mg/L	0.0246	1.20%
B 249.677†	5200.1	1.004	mg/L	0.0041	1.004	mg/L	0.0041	0.41%
Ba 233.527†	6097.9	1.028	mg/L	0.0052	1.028	mg/L	0.0052	0.50%
Be 313.042†	334235.9	1.014	mg/L	0.0043	1.014	mg/L	0.0043	0.42%
Ca 317.933†	15240.0	2.129	mg/L	0.0083	2.129	mg/L	0.0083	0.39%
Cd 228.802†	17424.2	0.9966	mg/L	0.00838	0.9966	mg/L	0.00838	0.84%
Co 228.616†	25263.4	0.9973	mg/L	0.00667	0.9973	mg/L	0.00667	0.67%
Cr 267.716†	5942.8	1.029	mg/L	0.0038	1.029	mg/L	0.0038	0.36%
Cu 324.752†	141254.7	0.9819	mg/L	0.00640	0.9819	mg/L	0.00640	0.65%
Fe 273.955†	1632.1	2.072	mg/L	0.0124	2.072	mg/L	0.0124	0.60%
K 766.490†	25849.2	21.24	mg/L	0.122	21.24	mg/L	0.122	0.57%
Mg 279.077†	1699.8	2.094	mg/L	0.0195	2.094	mg/L	0.0195	0.93%
Mn 257.610†	28277.7	0.9519	mg/L	0.00516	0.9519	mg/L	0.00516	0.54%
Mo 202.031†	15042.7	0.9685	mg/L	0.00781	0.9685	mg/L	0.00781	0.81%
Na 589.592†	381177.5	50.94	mg/L	0.197	50.94	mg/L	0.197	0.39%
Na 330.237†	911.9	54.02	mg/L	0.391	54.02	mg/L	0.391	0.72%
Ni 231.604†	3698.8	1.035	mg/L	0.0062	1.035	mg/L	0.0062	0.60%
Pb 220.353†	13194.8	1.994	mg/L	0.0154	1.994	mg/L	0.0154	0.77%
Sb 206.836†	5065.3	2.098	mg/L	0.0210	2.098	mg/L	0.0210	1.00%
Se 196.026†	1903.4	2.059	mg/L	0.0223	2.059	mg/L	0.0223	1.08%
Si 288.158†	2452.3	2.086	mg/L	0.0099	2.086	mg/L	0.0099	0.47%
Sn 189.927†	2891.9	1.000	mg/L	0.0077	1.000	mg/L	0.0077	0.77%
Sr 421.552†	506768.3	1.021	mg/L	0.0030	1.021	mg/L	0.0030	0.30%
Ti 334.903†	14366.3	0.9984	mg/L	0.00301	0.9984	mg/L	0.00301	0.30%
Tl 190.801†	2961.5	2.018	mg/L	0.0240	2.018	mg/L	0.0240	1.19%
V 292.402†	101912.3	1.008	mg/L	0.0059	1.008	mg/L	0.0059	0.59%
Zn 206.200†	3323.0	1.045	mg/L	0.0080	1.045	mg/L	0.0080	0.76%

Sequence No.: 38
Sample ID: SEQ-CCB6

Autosampler Location: 1
Date Collected: 10/28/2016 3:16:07 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCB6

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: SEQ-CCB6

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1862333.0	106.4	%	0.19				0.17%
ScR 361.383	207104.0	107.6	%	0.77				0.72%
Ag 328.068†	-18.8	-0.00015	mg/L	0.000325	-0.00015	mg/L	0.000325	223.30%
Al 308.215†	3.4	0.00367	mg/L	0.001631	0.00367	mg/L	0.001631	44.43%
As 188.979†	2.5	0.00203	mg/L	0.002618	0.00203	mg/L	0.002618	128.90%
B 249.677†	10.7	0.00206	mg/L	0.001824	0.00206	mg/L	0.001824	88.31%
Ba 233.527†	4.6	0.00077	mg/L	0.000727	0.00077	mg/L	0.000727	93.88%
Be 313.042†	-36.4	-0.00011	mg/L	0.000103	-0.00011	mg/L	0.000103	93.56%
Ca 317.933†	26.1	0.00364	mg/L	0.001115	0.00364	mg/L	0.001115	30.62%
Cd 228.802†	-2.3	-0.00015	mg/L	0.000071	-0.00015	mg/L	0.000071	48.63%
Co 228.616†	4.5	0.00018	mg/L	0.000065	0.00018	mg/L	0.000065	36.44%
Cr 267.716†	4.4	0.00075	mg/L	0.000674	0.00075	mg/L	0.000674	89.37%
Cu 324.752†	-13.2	-0.00009	mg/L	0.000003	-0.00009	mg/L	0.000003	2.73%
Fe 273.955†	6.0	0.00759	mg/L	0.001394	0.00759	mg/L	0.001394	18.36%
K 766.490†	47.6	0.03916	mg/L	0.018999	0.03916	mg/L	0.018999	48.52%
Mg 279.077†	4.5	0.00550	mg/L	0.002479	0.00550	mg/L	0.002479	45.10%
Mn 257.610†	0.4	0.00001	mg/L	0.000184	0.00001	mg/L	0.000184	>999.9%
Mo 202.031†	6.2	0.00040	mg/L	0.000254	0.00040	mg/L	0.000254	63.92%
Na 589.592†	201.7	0.02696	mg/L	0.001578	0.02696	mg/L	0.001578	5.86%
Na 330.237†	16.1	0.9589	mg/L	0.81382	0.9589	mg/L	0.81382	84.87%
Ni 231.604†	-0.7	-0.00018	mg/L	0.002042	-0.00018	mg/L	0.002042	>999.9%
Pb 220.353†	6.8	0.00103	mg/L	0.000845	0.00103	mg/L	0.000845	81.66%
Sb 206.836†	-3.3	-0.00139	mg/L	0.001586	-0.00139	mg/L	0.001586	113.97%
Se 196.026†	1.0	0.00104	mg/L	0.002391	0.00104	mg/L	0.002391	230.82%
Si 288.158†	-1.9	-0.00165	mg/L	0.000633	-0.00165	mg/L	0.000633	38.45%
Sn 189.927†	0.0	0.00002	mg/L	0.000096	0.00002	mg/L	0.000096	600.88%
Sr 421.552†	10.5	0.00002	mg/L	0.000013	0.00002	mg/L	0.000013	63.45%
Ti 334.903†	-15.2	-0.00105	mg/L	0.000187	-0.00105	mg/L	0.000187	17.76%
Tl 190.801†	1.1	0.00078	mg/L	0.001051	0.00078	mg/L	0.001051	134.12%
V 292.402†	-25.1	-0.00024	mg/L	0.000135	-0.00024	mg/L	0.000135	55.54%
Zn 206.200†	0.6	0.00020	mg/L	0.000218	0.00020	mg/L	0.000218	108.55%

Sequence No.: 39
Sample ID: BEJ0643-BLK1

Autosampler Location: 344
Date Collected: 10/28/2016 3:20:07 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0643-BLK1

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: BEJ0643-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1910386.7	109.1	%	0.26				0.24%
ScR 361.383	211148.1	109.7	%	0.25				0.23%
Ag 328.068†	-46.2	-0.00036	mg/L	0.000195	-0.00036	mg/L	0.000195	54.67%
Al 308.215†	5.3	0.00570	mg/L	0.005904	0.00570	mg/L	0.005904	103.56%
As 188.979†	1.0	0.00078	mg/L	0.001612	0.00078	mg/L	0.001612	207.72%
B 249.677†	-5.0	-0.00096	mg/L	0.000360	-0.00096	mg/L	0.000360	37.47%
Ba 233.527†	6.2	0.00105	mg/L	0.000818	0.00105	mg/L	0.000818	78.16%
Be 313.042†	-30.6	-0.00009	mg/L	0.000075	-0.00009	mg/L	0.000075	80.39%
Ca 317.933†	36.3	0.00507	mg/L	0.000873	0.00507	mg/L	0.000873	17.23%
Cd 228.802†	1.8	0.00010	mg/L	0.000112	0.00010	mg/L	0.000112	112.31%
Co 228.616†	8.2	0.00033	mg/L	0.000094	0.00033	mg/L	0.000094	28.63%
Cr 267.716†	7.3	0.00127	mg/L	0.000134	0.00127	mg/L	0.000134	10.61%
Cu 324.752†	-16.3	-0.00011	mg/L	0.000108	-0.00011	mg/L	0.000108	95.38%
Fe 273.955†	6.6	0.00840	mg/L	0.002481	0.00840	mg/L	0.002481	29.55%
K 766.490†	49.2	0.04046	mg/L	0.030843	0.04046	mg/L	0.030843	76.24%
Mg 279.077†	7.3	0.00898	mg/L	0.004366	0.00898	mg/L	0.004366	48.64%
Mn 257.610†	4.0	0.00013	mg/L	0.000111	0.00013	mg/L	0.000111	82.50%
Mo 202.031†	1.5	0.00009	mg/L	0.000224	0.00009	mg/L	0.000224	236.42%
Na 589.592†	353.9	0.04729	mg/L	0.014535	0.04729	mg/L	0.014535	30.73%
Na 330.237†	13.4	0.7930	mg/L	0.38431	0.7930	mg/L	0.38431	48.46%
Ni 231.604†	1.3	0.00035	mg/L	0.001467	0.00035	mg/L	0.001467	419.37%
Pb 220.353†	4.6	0.00071	mg/L	0.000848	0.00071	mg/L	0.000848	120.16%
Sb 206.836†	-9.2	-0.00384	mg/L	0.002466	-0.00384	mg/L	0.002466	64.14%
Se 196.026†	-0.1	-0.00011	mg/L	0.004660	-0.00011	mg/L	0.004660	>999.9%
Si 288.158†	-11.9	-0.01012	mg/L	0.001445	-0.01012	mg/L	0.001445	14.29%
Sn 189.927†	-0.2	-0.00007	mg/L	0.001012	-0.00007	mg/L	0.001012	>999.9%
Sr 421.552†	-34.3	-0.00007	mg/L	0.000018	-0.00007	mg/L	0.000018	25.74%
Ti 334.903†	-15.7	-0.00109	mg/L	0.000692	-0.00109	mg/L	0.000692	63.31%
Tl 190.801†	1.5	0.00101	mg/L	0.001628	0.00101	mg/L	0.001628	161.74%
V 292.402†	-27.8	-0.00027	mg/L	0.000168	-0.00027	mg/L	0.000168	62.59%
Zn 206.200†	4.2	0.00132	mg/L	0.000828	0.00132	mg/L	0.000828	62.61%

Sequence No.: 40
Sample ID: BEJ0795-BLK1

Dilution: 2.000000X

Autosampler Location: 345
Date Collected: 10/28/2016 3:24:07 PM
Data Type: Original

Nebulizer Parameters: BEJ0795-BLK1

Analyte	Back Pressure	Flow
All	149.0 kPa	0.65 L/min

Mean Data: BEJ0795-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1875964.6	107.2	%	0.26				0.24%
ScR 361.383	208168.0	108.1	%	0.62				0.57%
Ag 328.068†	30.2	0.00023	mg/L	0.000054	0.00047	mg/L	0.000108	23.25%
Al 308.215†	10.4	0.01112	mg/L	0.006050	0.02224	mg/L	0.012100	54.40%
As 188.979†	1.1	0.00085	mg/L	0.002959	0.00170	mg/L	0.005919	348.08%
B 249.677†	1.2	0.00022	mg/L	0.000123	0.00045	mg/L	0.000246	54.97%
Ba 233.527†	3.5	0.00059	mg/L	0.000319	0.00119	mg/L	0.000637	53.64%
Be 313.042†	-46.7	-0.00014	mg/L	0.000039	-0.00028	mg/L	0.000079	27.81%
Ca 317.933†	51.7	0.00722	mg/L	0.001055	0.01444	mg/L	0.002109	14.60%
Cd 228.802†	-2.6	-0.00016	mg/L	0.000182	-0.00031	mg/L	0.000364	116.25%
Co 228.616†	3.1	0.00013	mg/L	0.000083	0.00025	mg/L	0.000166	65.40%
Cr 267.716†	4.9	0.00086	mg/L	0.001321	0.00172	mg/L	0.002641	153.92%
Cu 324.752†	19.3	0.00013	mg/L	0.000180	0.00027	mg/L	0.000359	133.90%
Fe 273.955†	5.2	0.00659	mg/L	0.002310	0.01317	mg/L	0.004620	35.07%
K 766.490†	33.3	0.02736	mg/L	0.022288	0.05472	mg/L	0.044576	81.46%
Mg 279.077†	4.7	0.00575	mg/L	0.006570	0.01149	mg/L	0.013140	114.32%
Mn 257.610†	0.7	0.00002	mg/L	0.000179	0.00005	mg/L	0.000358	749.95%
Mo 202.031†	2.7	0.00018	mg/L	0.000069	0.00035	mg/L	0.000137	39.05%
Na 589.592†	184.0	0.02458	mg/L	0.001907	0.04917	mg/L	0.003813	7.76%
Na 330.237†	14.8	0.8803	mg/L	0.47497	1.761	mg/L	0.9499	53.96%
Ni 231.604†	-7.4	-0.00207	mg/L	0.001753	-0.00413	mg/L	0.003506	84.88%
Pb 220.353†	-1.8	-0.00026	mg/L	0.001011	-0.00053	mg/L	0.002022	383.06%
Sb 206.836†	-4.2	-0.00176	mg/L	0.001486	-0.00352	mg/L	0.002972	84.43%
Se 196.026†	2.2	0.00239	mg/L	0.003048	0.00478	mg/L	0.006096	127.64%
Si 288.158†	-2.8	-0.00234	mg/L	0.004140	-0.00468	mg/L	0.008280	177.09%
Sn 189.927†	-0.5	-0.00018	mg/L	0.001144	-0.00036	mg/L	0.002288	638.75%
Sr 421.552†	-9.1	-0.00002	mg/L	0.000018	-0.00004	mg/L	0.000035	95.86%
Ti 334.903†	-16.2	-0.00113	mg/L	0.000108	-0.00226	mg/L	0.000217	9.59%
Tl 190.801†	0.0	0.00002	mg/L	0.003412	0.00005	mg/L	0.006824	>999.9%
V 292.402†	-28.6	-0.00028	mg/L	0.000370	-0.00056	mg/L	0.000740	133.22%
Zn 206.200†	2.2	0.00068	mg/L	0.001272	0.00137	mg/L	0.002545	186.18%

Sequence No.: 41
Sample ID: 16J0433-03

Dilution: 5.000000X

Autosampler Location: 346
Date Collected: 10/28/2016 3:28:06 PM
Data Type: Original

Nebulizer Parameters: 16J0433-03

Analyte	Back Pressure	Flow
All	149.0 kPa	0.65 L/min

Mean Data: 16J0433-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1620567.8	92.58	%	0.458				0.49%
ScR 361.383	188324.0	97.83	%	0.417				0.43%
Ag 328.068†	-63.0	-0.00049	mg/L	0.000040	-0.00243	mg/L	0.000199	8.20%
Al 308.215†	-6.4	-0.00704	mg/L	0.007829	-0.03519	mg/L	0.039143	111.25%
As 188.979†	16.8	0.01020	mg/L	0.002807	0.05101	mg/L	0.014033	27.51%
B 249.677†	3940.6	0.7622	mg/L	0.00784	3.811	mg/L	0.0392	1.03%
Ba 233.527†	47.2	0.00796	mg/L	0.000974	0.03979	mg/L	0.004868	12.23%
Be 313.042†	44.1	0.00013	mg/L	0.000032	0.00067	mg/L	0.000162	24.29%
Ca 317.933†	436636.5	61.00	mg/L	0.054	305.0	mg/L	0.27	0.09%
Cd 228.802†	1.1	-0.00002	mg/L	0.000180	-0.00011	mg/L	0.000898	807.07%
Co 228.616†	-3.0	-0.00013	mg/L	0.000128	-0.00063	mg/L	0.000641	102.02%
Cr 267.716†	76.3	-0.00183	mg/L	0.000555	-0.00917	mg/L	0.002773	30.24%
Cu 324.752†	390.6	-0.00002	mg/L	0.000126	-0.00012	mg/L	0.000631	523.52%
Fe 273.955†	15.8	0.02017	mg/L	0.002712	0.1008	mg/L	0.01356	13.45%
K 766.490†	82512.3	67.81	mg/L	0.384	339.0	mg/L	1.92	0.57%
Mg 279.077†	161773.9	198.6	mg/L	1.78	993.0	mg/L	8.89	0.90%
Mn 257.610†	211.2	0.00547	mg/L	0.000170	0.02733	mg/L	0.000852	3.12%
Mo 202.031†	96.8	0.00534	mg/L	0.000347	0.02668	mg/L	0.001734	6.50%
Na 589.592†	14020841.6	1874	mg/L	9.83	9368	mg/L	49.15	0.52%
Na 330.237†	34169.7	2030	mg/L	15.34	10150	mg/L	76.71	0.76%
Ni 231.604†	1.7	0.00047	mg/L	0.001031	0.00234	mg/L	0.005156	220.80%
Pb 220.353†	-8.3	-0.00123	mg/L	0.000441	-0.00614	mg/L	0.002206	35.91%
Sb 206.836†	2.6	0.00056	mg/L	0.004253	0.00281	mg/L	0.021266	756.84%
Se 196.026†	18.2	0.01969	mg/L	0.000594	0.09845	mg/L	0.002968	3.01%
Si 288.158†	-32.2	-0.00010	mg/L	0.003682	-0.00051	mg/L	0.018410	>999.9%
Sn 189.927†	-101.7	-0.02125	mg/L	0.000074	-0.1063	mg/L	0.00037	0.35%
Sr 421.552†	1123162.8	2.263	mg/L	0.0052	11.32	mg/L	0.026	0.23%
Ti 334.903†	69.6	0.00045	mg/L	0.001305	0.00226	mg/L	0.006526	288.34%
Tl 190.801†	-0.8	-0.00369	mg/L	0.003400	-0.01846	mg/L	0.017002	92.08%
V 292.402†	33.8	0.00039	mg/L	0.000417	0.00197	mg/L	0.002087	106.20%
Zn 206.200†	-4.1	-0.00128	mg/L	0.000570	-0.00642	mg/L	0.002849	44.34%

Sequence No.: 42
Sample ID: 16J0433-04

Dilution: 5.000000X

Autosampler Location: 347
Date Collected: 10/28/2016 3:32:44 PM
Data Type: Original

Nebulizer Parameters: 16J0433-04

Analyte	Back Pressure	Flow
All	152.0 kPa	0.65 L/min

Mean Data: 16J0433-04

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1636510.4	93.49	%	0.263				0.28%
ScR 361.383	191022.1	99.24	%	1.724				1.74%
Ag 328.068†	-80.9	-0.00062	mg/L	0.000082	-0.00312	mg/L	0.000410	13.15%
Al 308.215†	-4.8	-0.00527	mg/L	0.002537	-0.02636	mg/L	0.012683	48.12%
As 188.979†	23.6	0.01510	mg/L	0.004062	0.07551	mg/L	0.020311	26.90%
B 249.677†	3876.0	0.7497	mg/L	0.00648	3.749	mg/L	0.0324	0.86%
Ba 233.527†	14.6	0.00246	mg/L	0.000375	0.01228	mg/L	0.001875	15.27%
Be 313.042†	51.4	0.00016	mg/L	0.000062	0.00078	mg/L	0.000309	39.73%
Ca 317.933†	521076.3	72.79	mg/L	0.347	364.0	mg/L	1.73	0.48%
Cd 228.802†	-0.9	-0.00017	mg/L	0.000178	-0.00085	mg/L	0.000890	104.34%
Co 228.616†	-0.3	-0.00002	mg/L	0.000207	-0.00012	mg/L	0.001037	833.16%
Cr 267.716†	94.3	-0.00073	mg/L	0.001047	-0.00363	mg/L	0.005235	144.11%
Cu 324.752†	410.9	-0.00009	mg/L	0.000039	-0.00046	mg/L	0.000193	41.98%
Fe 273.955†	21.3	0.02717	mg/L	0.003505	0.1358	mg/L	0.01753	12.90%
K 766.490†	91215.6	74.96	mg/L	0.292	374.8	mg/L	1.46	0.39%
Mg 279.077†	183526.8	225.3	mg/L	0.76	1127	mg/L	3.80	0.34%
Mn 257.610†	68.4	0.00045	mg/L	0.000124	0.00223	mg/L	0.000621	27.91%
Mo 202.031†	131.9	0.00742	mg/L	0.000325	0.03712	mg/L	0.001627	4.38%
Na 589.592†	13502451.2	1804	mg/L	22.63	9022	mg/L	113.14	1.25%
Na 330.237†	32990.3	1960	mg/L	14.82	9800	mg/L	74.09	0.76%
Ni 231.604†	-4.9	-0.00138	mg/L	0.000620	-0.00689	mg/L	0.003102	45.05%
Pb 220.353†	-8.2	-0.00122	mg/L	0.000982	-0.00610	mg/L	0.004908	80.41%
Sb 206.836†	-0.6	-0.00083	mg/L	0.001149	-0.00417	mg/L	0.005746	137.74%
Se 196.026†	18.8	0.02038	mg/L	0.005463	0.1019	mg/L	0.02731	26.81%
Si 288.158†	386.7	0.3604	mg/L	0.00622	1.802	mg/L	0.0311	1.73%
Sn 189.927†	-104.2	-0.01942	mg/L	0.001320	-0.09711	mg/L	0.006598	6.79%
Sr 421.552†	667154.9	1.344	mg/L	0.0053	6.722	mg/L	0.0266	0.40%
Ti 334.903†	99.8	0.00171	mg/L	0.000731	0.00853	mg/L	0.003656	42.89%
Tl 190.801†	-0.5	-0.00407	mg/L	0.003199	-0.02035	mg/L	0.015995	78.61%
V 292.402†	63.5	0.00070	mg/L	0.000296	0.00349	mg/L	0.001479	42.35%
Zn 206.200†	-5.9	-0.00179	mg/L	0.000738	-0.00893	mg/L	0.003688	41.29%

Sequence No.: 43
Sample ID: 16J0342-03

Dilution: 5.000000X

Autosampler Location: 348
Date Collected: 10/28/2016 3:37:21 PM
Data Type: Original

Nebulizer Parameters: 16J0342-03

Analyte	Back Pressure	Flow
All	152.0 kPa	0.65 L/min

Mean Data: 16J0342-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1888120.4	107.9	%	0.08				0.07%
ScR 361.383	210222.6	109.2	%	1.17				1.07%
Ag 328.068†	-8.6	-0.00002	mg/L	0.000338	-0.00012	mg/L	0.001690	>999.9%
Al 308.215†	35867.9	38.49	mg/L	0.128	192.4	mg/L	0.64	0.33%
As 188.979†	-91.0	0.00774	mg/L	0.001215	0.03869	mg/L	0.006077	15.71%
B 249.677†	99.4	0.01847	mg/L	0.002185	0.09237	mg/L	0.010924	11.83%
Ba 233.527†	1433.4	0.2337	mg/L	0.00129	1.168	mg/L	0.0064	0.55%
Be 313.042†	173.9	0.00049	mg/L	0.000047	0.00247	mg/L	0.000237	9.60%
Ca 317.933†	200556.6	28.02	mg/L	0.106	140.1	mg/L	0.53	0.38%
Cd 228.802†	11.0	0.00098	mg/L	0.000125	0.00488	mg/L	0.000627	12.85%
Co 228.616†	1255.6	0.04461	mg/L	0.000256	0.2231	mg/L	0.00128	0.57%
Cr 267.716†	587.7	0.1003	mg/L	0.00145	0.5014	mg/L	0.00726	1.45%
Cu 324.752†	10692.7	0.07685	mg/L	0.000789	0.3842	mg/L	0.00395	1.03%
Fe 273.955†	56545.5	72.07	mg/L	0.083	360.4	mg/L	0.42	0.12%
K 766.490†	4460.6	3.666	mg/L	0.0052	18.33	mg/L	0.026	0.14%
Mg 279.077†	57092.6	70.04	mg/L	0.303	350.2	mg/L	1.51	0.43%
Mn 257.610†	33887.7	1.140	mg/L	0.0017	5.698	mg/L	0.0083	0.15%
Mo 202.031†	89.4	0.00534	mg/L	0.000152	0.02670	mg/L	0.000761	2.85%
Na 589.592†	15373.1	2.054	mg/L	0.0938	10.27	mg/L	0.469	4.57%
Na 330.237†	31.6	2.438	mg/L	0.1890	12.19	mg/L	0.945	7.75%
Ni 231.604†	1910.8	0.5344	mg/L	0.00500	2.672	mg/L	0.0250	0.94%
Pb 220.353†	473.4	0.08112	mg/L	0.001185	0.4056	mg/L	0.00593	1.46%
Sb 206.836†	10.0	0.00461	mg/L	0.001590	0.02307	mg/L	0.007952	34.47%
Se 196.026†	19.8	0.01731	mg/L	0.004921	0.08654	mg/L	0.024605	28.43%
Si 288.158†	506.0	0.4205	mg/L	0.00620	2.102	mg/L	0.0310	1.47%
Sn 189.927†	-51.4	-0.01077	mg/L	0.001235	-0.05386	mg/L	0.006174	11.46%
Sr 421.552†	78284.7	0.1577	mg/L	0.00044	0.7887	mg/L	0.00221	0.28%
Ti 334.903†	38884.2	2.704	mg/L	0.0082	13.52	mg/L	0.041	0.30%
Tl 190.801†	-11.0	0.00010	mg/L	0.004960	0.00051	mg/L	0.024802	>999.9%
V 292.402†	14472.5	0.1388	mg/L	0.00133	0.6942	mg/L	0.00667	0.96%
Zn 206.200†	687.7	0.2162	mg/L	0.00078	1.081	mg/L	0.0039	0.36%

Sequence No.: 44
Sample ID: 16J0342-02

Autosampler Location: 349
Date Collected: 10/28/2016 3:41:20 PM
Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: 16J0342-02

Analyte	Back Pressure	Flow
All	152.0 kPa	0.65 L/min

Mean Data: 16J0342-02

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1897273.3	108.4	%	0.61				0.57%
ScR 361.383	212561.0	110.4	%	0.47				0.42%
Ag 328.068†	-62.7	-0.00038	mg/L	0.000325	-0.00076	mg/L	0.000649	85.38%
Al 308.215†	92090.8	98.81	mg/L	0.421	197.6	mg/L	0.84	0.43%
As 188.979†	-212.1	0.02708	mg/L	0.002145	0.05416	mg/L	0.004291	7.92%
B 249.677†	116.3	0.02075	mg/L	0.001151	0.04150	mg/L	0.002301	5.54%
Ba 233.527†	3431.1	0.5611	mg/L	0.00108	1.122	mg/L	0.0022	0.19%
Be 313.042†	481.6	0.00138	mg/L	0.000015	0.00275	mg/L	0.000030	1.09%
Ca 317.933†	403981.5	56.44	mg/L	0.276	112.9	mg/L	0.55	0.49%
Cd 228.802†	37.0	0.00222	mg/L	0.000276	0.00443	mg/L	0.000553	12.47%
Co 228.616†	2032.4	0.06821	mg/L	0.000332	0.1364	mg/L	0.00066	0.49%
Cr 267.716†	1507.9	0.2643	mg/L	0.00025	0.5287	mg/L	0.00050	0.09%
Cu 324.752†	25559.5	0.1836	mg/L	0.00117	0.3672	mg/L	0.00235	0.64%
Fe 273.955†	123163.5	157.0	mg/L	1.27	314.0	mg/L	2.53	0.81%
K 766.490†	9326.6	7.664	mg/L	0.0499	15.33	mg/L	0.100	0.65%
Mg 279.077†	55153.0	67.59	mg/L	0.327	135.2	mg/L	0.65	0.48%
Mn 257.610†	78887.4	2.653	mg/L	0.0176	5.307	mg/L	0.0351	0.66%
Mo 202.031†	121.6	0.00700	mg/L	0.000103	0.01400	mg/L	0.000205	1.47%
Na 589.592†	20384.7	2.724	mg/L	0.0124	5.448	mg/L	0.0247	0.45%
Na 330.237†	32.5	3.323	mg/L	0.1083	6.645	mg/L	0.2165	3.26%
Ni 231.604†	1439.3	0.4025	mg/L	0.00106	0.8050	mg/L	0.00212	0.26%
Pb 220.353†	591.5	0.1140	mg/L	0.00076	0.2281	mg/L	0.00152	0.67%
Sb 206.836†	24.7	0.01133	mg/L	0.000958	0.02265	mg/L	0.001915	8.46%
Se 196.026†	30.3	0.02228	mg/L	0.002361	0.04457	mg/L	0.004723	10.60%
Si 288.158†	1097.3	0.8949	mg/L	0.00406	1.790	mg/L	0.0081	0.45%
Sn 189.927†	-87.0	-0.01575	mg/L	0.000479	-0.03149	mg/L	0.000959	3.04%
Sr 421.552†	166495.5	0.3355	mg/L	0.00114	0.6710	mg/L	0.00229	0.34%
Ti 334.903†	94649.6	6.582	mg/L	0.0321	13.16	mg/L	0.064	0.49%
Tl 190.801†	-22.0	0.00220	mg/L	0.001223	0.00440	mg/L	0.002445	55.58%
V 292.402†	36153.1	0.3478	mg/L	0.00195	0.6956	mg/L	0.00391	0.56%
Zn 206.200†	1413.7	0.4445	mg/L	0.00066	0.8890	mg/L	0.00133	0.15%

Sequence No.: 45
Sample ID: BEJ0795-DUP1

Dilution: 2.000000X

Autosampler Location: 350
Date Collected: 10/28/2016 3:45:19 PM
Data Type: Original

Nebulizer Parameters: BEJ0795-DUP1

Analyte	Back Pressure	Flow
All	151.0 kPa	0.65 L/min

Mean Data: BEJ0795-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1847338.5	105.5	%	0.12				0.11%
ScR 361.383	207464.5	107.8	%	0.66				0.62%
Ag 328.068†	-76.6	-0.00048	mg/L	0.000043	-0.00097	mg/L	0.000085	8.80%
Al 308.215†	104701.9	112.3	mg/L	0.49	224.7	mg/L	0.99	0.44%
As 188.979†	-190.5	0.05401	mg/L	0.003495	0.1080	mg/L	0.00699	6.47%
B 249.677†	295.1	0.05506	mg/L	0.001285	0.1101	mg/L	0.00257	2.33%
Ba 233.527†	3552.3	0.5771	mg/L	0.00147	1.154	mg/L	0.0029	0.26%
Be 313.042†	505.1	0.00145	mg/L	0.000033	0.00289	mg/L	0.000067	2.30%
Ca 317.933†	575917.3	80.45	mg/L	0.269	160.9	mg/L	0.54	0.33%
Cd 228.802†	11.1	0.00204	mg/L	0.000199	0.00407	mg/L	0.000399	9.78%
Co 228.616†	3854.1	0.1394	mg/L	0.00076	0.2787	mg/L	0.00153	0.55%
Cr 267.716†	1622.4	0.2702	mg/L	0.00227	0.5404	mg/L	0.00454	0.84%
Cu 324.752†	46259.0	0.3280	mg/L	0.00130	0.6559	mg/L	0.00259	0.39%
Fe 273.955†	153920.9	196.2	mg/L	0.44	392.4	mg/L	0.89	0.23%
K 766.490†	8757.2	7.197	mg/L	0.0492	14.39	mg/L	0.098	0.68%
Mg 279.077†	227254.9	278.8	mg/L	0.87	557.7	mg/L	1.74	0.31%
Mn 257.610†	84986.0	2.857	mg/L	0.0076	5.714	mg/L	0.0151	0.26%
Mo 202.031†	163.2	0.00933	mg/L	0.000269	0.01865	mg/L	0.000539	2.89%
Na 589.592†	18213.7	2.434	mg/L	0.0074	4.868	mg/L	0.0148	0.30%
Na 330.237†	25.8	2.982	mg/L	0.1873	5.964	mg/L	0.3745	6.28%
Ni 231.604†	8065.8	2.256	mg/L	0.0119	4.512	mg/L	0.0239	0.53%
Pb 220.353†	702.4	0.1340	mg/L	0.00065	0.2679	mg/L	0.00129	0.48%
Sb 206.836†	40.8	0.01787	mg/L	0.002411	0.03574	mg/L	0.004821	13.49%
Se 196.026†	44.7	0.03649	mg/L	0.003400	0.07298	mg/L	0.006800	9.32%
Si 288.158†	1030.5	0.8645	mg/L	0.00568	1.729	mg/L	0.0114	0.66%
Sn 189.927†	-101.7	-0.01526	mg/L	0.001867	-0.03052	mg/L	0.003734	12.24%
Sr 421.552†	204193.1	0.4115	mg/L	0.00160	0.8229	mg/L	0.00320	0.39%
Ti 334.903†	99816.0	6.939	mg/L	0.0235	13.88	mg/L	0.047	0.34%
Tl 190.801†	-36.1	-0.00430	mg/L	0.001639	-0.00859	mg/L	0.003277	38.15%
V 292.402†	37156.9	0.3561	mg/L	0.00123	0.7122	mg/L	0.00245	0.34%
Zn 206.200†	1647.2	0.5179	mg/L	0.00204	1.036	mg/L	0.0041	0.39%

Sequence No.: 46
Sample ID: 16J0342-01

Autosampler Location: 351
Date Collected: 10/28/2016 3:49:05 PM
Data Type: Original

Dilution: 2.000000X

Nebulizer Parameters: 16J0342-01

Analyte	Back Pressure	Flow
All	151.0 kPa	0.65 L/min

Mean Data: 16J0342-01

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1892539.3	108.1	%	0.65				0.60%
ScR 361.383	211722.3	110.0	%	0.60				0.55%
Ag 328.068†	-51.0	-0.00029	mg/L	0.000140	-0.00058	mg/L	0.000280	48.21%
Al 308.215†	92891.0	99.67	mg/L	0.388	199.3	mg/L	0.78	0.39%
As 188.979†	-241.3	0.02177	mg/L	0.004841	0.04355	mg/L	0.009681	22.23%
B 249.677†	159.5	0.02893	mg/L	0.001432	0.05785	mg/L	0.002865	4.95%
Ba 233.527†	3260.4	0.5304	mg/L	0.00424	1.061	mg/L	0.0085	0.80%
Be 313.042†	496.0	0.00142	mg/L	0.000031	0.00284	mg/L	0.000062	2.20%
Ca 317.933†	516341.8	72.13	mg/L	0.162	144.3	mg/L	0.32	0.22%
Cd 228.802†	21.8	0.00183	mg/L	0.000177	0.00366	mg/L	0.000353	9.65%
Co 228.616†	2477.0	0.08460	mg/L	0.000703	0.1692	mg/L	0.00141	0.83%
Cr 267.716†	1451.4	0.2506	mg/L	0.00202	0.5011	mg/L	0.00404	0.81%
Cu 324.752†	35126.6	0.2504	mg/L	0.00092	0.5008	mg/L	0.00184	0.37%
Fe 273.955†	136707.7	174.2	mg/L	1.03	348.5	mg/L	2.05	0.59%
K 766.490†	8564.2	7.038	mg/L	0.0408	14.08	mg/L	0.082	0.58%
Mg 279.077†	107542.4	131.9	mg/L	0.32	263.8	mg/L	0.64	0.24%
Mn 257.610†	77153.1	2.595	mg/L	0.0144	5.189	mg/L	0.0289	0.56%
Mo 202.031†	129.1	0.00725	mg/L	0.000229	0.01450	mg/L	0.000459	3.17%
Na 589.592†	16554.3	2.212	mg/L	0.0015	4.425	mg/L	0.0030	0.07%
Na 330.237†	20.9	2.781	mg/L	0.1416	5.562	mg/L	0.2832	5.09%
Ni 231.604†	3290.5	0.9203	mg/L	0.00640	1.841	mg/L	0.0128	0.70%
Pb 220.353†	599.8	0.1154	mg/L	0.00085	0.2308	mg/L	0.00171	0.74%
Sb 206.836†	29.0	0.01357	mg/L	0.001419	0.02714	mg/L	0.002838	10.46%
Se 196.026†	41.6	0.03451	mg/L	0.012528	0.06903	mg/L	0.025056	36.30%
Si 288.158†	1192.6	0.9804	mg/L	0.00943	1.961	mg/L	0.0189	0.96%
Sn 189.927†	-102.6	-0.01742	mg/L	0.000991	-0.03485	mg/L	0.001983	5.69%
Sr 421.552†	221587.2	0.4465	mg/L	0.00105	0.8930	mg/L	0.00211	0.24%
Ti 334.903†	103523.5	7.198	mg/L	0.0244	14.40	mg/L	0.049	0.34%
Tl 190.801†	-22.8	0.00314	mg/L	0.004683	0.00628	mg/L	0.009366	149.13%
V 292.402†	36013.4	0.3454	mg/L	0.00045	0.6907	mg/L	0.00091	0.13%
Zn 206.200†	1385.5	0.4356	mg/L	0.00397	0.8713	mg/L	0.00794	0.91%

Sequence No.: 47
Sample ID: BEJ0795-MS1

Dilution: 2.000000X

Autosampler Location: 352
Date Collected: 10/28/2016 3:52:51 PM
Data Type: Original

Nebulizer Parameters: BEJ0795-MS1

Analyte	Back Pressure	Flow
All	151.0 kPa	0.65 L/min

Mean Data: BEJ0795-MS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1897425.5	108.4	%	0.65				0.60%
ScR 361.383	211031.5	109.6	%	0.68				0.62%
Ag 328.068†	60083.9	0.4639	mg/L	0.00226	0.9278	mg/L	0.00453	0.49%
Al 308.215†	104222.4	111.8	mg/L	0.52	223.7	mg/L	1.03	0.46%
As 188.979†	2174.2	1.981	mg/L	0.0085	3.963	mg/L	0.0170	0.43%
B 249.677†	168.4	0.02947	mg/L	0.000258	0.05894	mg/L	0.000516	0.88%
Ba 233.527†	15072.7	2.522	mg/L	0.0150	5.044	mg/L	0.0300	0.60%
Be 313.042†	162967.4	0.4942	mg/L	0.00113	0.9884	mg/L	0.00227	0.23%
Ca 317.933†	565700.1	79.03	mg/L	0.146	158.1	mg/L	0.29	0.19%
Cd 228.802†	8687.6	0.4911	mg/L	0.00247	0.9823	mg/L	0.00494	0.50%
Co 228.616†	13877.8	0.5359	mg/L	0.00323	1.072	mg/L	0.0065	0.60%
Cr 267.716†	4212.4	0.7313	mg/L	0.00367	1.463	mg/L	0.0073	0.50%
Cu 324.752†	87115.2	0.6121	mg/L	0.00190	1.224	mg/L	0.0038	0.31%
Fe 273.955†	133367.3	170.0	mg/L	0.47	340.0	mg/L	0.95	0.28%
K 766.490†	21458.8	17.63	mg/L	0.080	35.27	mg/L	0.160	0.45%
Mg 279.077†	73448.0	90.04	mg/L	0.366	180.1	mg/L	0.73	0.41%
Mn 257.610†	85867.8	2.889	mg/L	0.0066	5.777	mg/L	0.0132	0.23%
Mo 202.031†	145.3	0.00819	mg/L	0.000408	0.01639	mg/L	0.000816	4.98%
Na 589.592†	99232.2	13.26	mg/L	0.078	26.52	mg/L	0.155	0.59%
Na 330.237†	218.2	14.25	mg/L	0.279	28.51	mg/L	0.559	1.96%
Ni 231.604†	3305.4	0.9239	mg/L	0.00397	1.848	mg/L	0.0079	0.43%
Pb 220.353†	13084.3	2.005	mg/L	0.0089	4.009	mg/L	0.0177	0.44%
Sb 206.836†	1328.1	0.5465	mg/L	0.00232	1.093	mg/L	0.0046	0.43%
Se 196.026†	1844.6	1.985	mg/L	0.0095	3.970	mg/L	0.0189	0.48%
Si 288.158†	1166.6	0.9562	mg/L	0.00237	1.912	mg/L	0.0047	0.25%
Sn 189.927†	-108.8	-0.01773	mg/L	0.000719	-0.03545	mg/L	0.001437	4.05%
Sr 421.552†	454060.2	0.9150	mg/L	0.00420	1.830	mg/L	0.0084	0.46%
Ti 334.903†	99296.8	6.903	mg/L	0.0243	13.81	mg/L	0.049	0.35%
Tl 190.801†	2688.8	1.853	mg/L	0.0124	3.705	mg/L	0.0247	0.67%
V 292.402†	84758.5	0.8281	mg/L	0.00244	1.656	mg/L	0.0049	0.29%
Zn 206.200†	2918.2	0.9174	mg/L	0.00558	1.835	mg/L	0.0112	0.61%

Sequence No.: 48
Sample ID: BEJ0795-BS1

Dilution: 2.000000X

Autosampler Location: 353
Date Collected: 10/28/2016 3:56:37 PM
Data Type: Original

Nebulizer Parameters: BEJ0795-BS1

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: BEJ0795-BS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1895931.8	108.3	%	0.45				0.41%
ScR 361.383	209224.3	108.7	%	0.75				0.69%
Ag 328.068†	66909.2	0.5165	mg/L	0.00256	1.033	mg/L	0.0051	0.50%
Al 308.215†	1938.8	2.073	mg/L	0.0093	4.147	mg/L	0.0186	0.45%
As 188.979†	2524.7	2.058	mg/L	0.0052	4.116	mg/L	0.0104	0.25%
B 249.677†	3.1	-0.00077	mg/L	0.001614	-0.00155	mg/L	0.003227	208.79%
Ba 233.527†	12071.5	2.035	mg/L	0.0089	4.070	mg/L	0.0177	0.44%
Be 313.042†	166519.7	0.5051	mg/L	0.00029	1.010	mg/L	0.0006	0.06%
Ca 317.933†	72674.5	10.15	mg/L	0.009	20.30	mg/L	0.019	0.09%
Cd 228.802†	8790.3	0.4964	mg/L	0.00085	0.9928	mg/L	0.00170	0.17%
Co 228.616†	12686.1	0.5015	mg/L	0.00163	1.003	mg/L	0.0033	0.32%
Cr 267.716†	2943.6	0.5086	mg/L	0.00294	1.017	mg/L	0.0059	0.58%
Cu 324.752†	70601.1	0.4910	mg/L	0.00204	0.9821	mg/L	0.00407	0.41%
Fe 273.955†	1645.2	2.093	mg/L	0.0154	4.185	mg/L	0.0309	0.74%
K 766.490†	12885.3	10.59	mg/L	0.044	21.18	mg/L	0.087	0.41%
Mg 279.077†	8576.1	10.53	mg/L	0.047	21.06	mg/L	0.095	0.45%
Mn 257.610†	14543.2	0.4898	mg/L	0.00254	0.9795	mg/L	0.00509	0.52%
Mo 202.031†	16.2	0.00089	mg/L	0.000219	0.00179	mg/L	0.000437	24.45%
Na 589.592†	76857.4	10.27	mg/L	0.048	20.54	mg/L	0.096	0.47%
Na 330.237†	190.8	11.15	mg/L	0.217	22.30	mg/L	0.434	1.94%
Ni 231.604†	1832.1	0.5127	mg/L	0.00446	1.025	mg/L	0.0089	0.87%
Pb 220.353†	13271.7	2.005	mg/L	0.0071	4.011	mg/L	0.0143	0.36%
Sb 206.836†	5194.7	2.148	mg/L	0.0076	4.297	mg/L	0.0153	0.36%
Se 196.026†	1916.7	2.075	mg/L	0.0020	4.149	mg/L	0.0040	0.10%
Si 288.158†	-6.1	-0.00218	mg/L	0.003763	-0.00435	mg/L	0.007527	172.96%
Sn 189.927†	-29.2	-0.00673	mg/L	0.001664	-0.01347	mg/L	0.003327	24.71%
Sr 421.552†	249715.2	0.5032	mg/L	0.00192	1.006	mg/L	0.0038	0.38%
Ti 334.903†	30.2	0.00125	mg/L	0.000485	0.00251	mg/L	0.000971	38.74%
Tl 190.801†	2997.0	2.045	mg/L	0.0095	4.090	mg/L	0.0189	0.46%
V 292.402†	51786.0	0.5124	mg/L	0.00191	1.025	mg/L	0.0038	0.37%
Zn 206.200†	1615.5	0.5078	mg/L	0.00293	1.016	mg/L	0.0059	0.58%

Sequence No.: 49
Sample ID: SEQ-CCV7

Autosampler Location: 7
Date Collected: 10/28/2016 4:00:36 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCV7

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: SEQ-CCV7

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1857170.9	106.1	%	0.29				0.28%
ScR 361.383	204142.9	106.1	%	0.65				0.61%
Ag 328.068†	134754.6	1.040	mg/L	0.0094	1.040	mg/L	0.0094	0.90%
Al 308.215†	1984.0	2.096	mg/L	0.0211	2.096	mg/L	0.0211	1.01%
As 188.979†	2477.1	2.047	mg/L	0.0059	2.047	mg/L	0.0059	0.29%
B 249.677†	5246.1	1.013	mg/L	0.0110	1.013	mg/L	0.0110	1.08%
Ba 233.527†	6156.9	1.038	mg/L	0.0117	1.038	mg/L	0.0117	1.13%
Be 313.042†	333387.9	1.011	mg/L	0.0049	1.011	mg/L	0.0049	0.48%
Ca 317.933†	15265.4	2.133	mg/L	0.0228	2.133	mg/L	0.0228	1.07%
Cd 228.802†	17442.4	0.9977	mg/L	0.01061	0.9977	mg/L	0.01061	1.06%
Co 228.616†	25432.1	1.004	mg/L	0.0116	1.004	mg/L	0.0116	1.15%
Cr 267.716†	5991.6	1.037	mg/L	0.0091	1.037	mg/L	0.0091	0.88%
Cu 324.752†	142301.5	0.9891	mg/L	0.00884	0.9891	mg/L	0.00884	0.89%
Fe 273.955†	1631.4	2.071	mg/L	0.0174	2.071	mg/L	0.0174	0.84%
K 766.490†	26038.1	21.40	mg/L	0.184	21.40	mg/L	0.184	0.86%
Mg 279.077†	1717.7	2.116	mg/L	0.0214	2.116	mg/L	0.0214	1.01%
Mn 257.610†	28186.8	0.9488	mg/L	0.00306	0.9488	mg/L	0.00306	0.32%
Mo 202.031†	15077.4	0.9707	mg/L	0.01236	0.9707	mg/L	0.01236	1.27%
Na 589.592†	383485.8	51.25	mg/L	0.220	51.25	mg/L	0.220	0.43%
Na 330.237†	909.4	53.88	mg/L	0.386	53.88	mg/L	0.386	0.72%
Ni 231.604†	3724.1	1.042	mg/L	0.0088	1.042	mg/L	0.0088	0.85%
Pb 220.353†	13204.1	1.996	mg/L	0.0235	1.996	mg/L	0.0235	1.18%
Sb 206.836†	5093.3	2.110	mg/L	0.0040	2.110	mg/L	0.0040	0.19%
Se 196.026†	1904.6	2.061	mg/L	0.0014	2.061	mg/L	0.0014	0.07%
Si 288.158†	2464.8	2.097	mg/L	0.0125	2.097	mg/L	0.0125	0.60%
Sn 189.927†	2895.2	1.001	mg/L	0.0012	1.001	mg/L	0.0012	0.12%
Sr 421.552†	508811.0	1.025	mg/L	0.0043	1.025	mg/L	0.0043	0.42%
Ti 334.903†	14414.2	1.002	mg/L	0.0035	1.002	mg/L	0.0035	0.35%
Tl 190.801†	2978.3	2.029	mg/L	0.0022	2.029	mg/L	0.0022	0.11%
V 292.402†	102842.7	1.018	mg/L	0.0101	1.018	mg/L	0.0101	0.99%
Zn 206.200†	3330.7	1.047	mg/L	0.0086	1.047	mg/L	0.0086	0.82%

Sequence No.: 50
Sample ID: SEQ-CCB7

Autosampler Location: 1
Date Collected: 10/28/2016 4:04:37 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCB7

Analyte	Back Pressure	Flow
All	151.0 kPa	0.65 L/min

Mean Data: SEQ-CCB7

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1868879.7	106.8	%	0.51				0.48%
ScR 361.383	205159.4	106.6	%	0.20				0.19%
Ag 328.068†	5.8	0.00005	mg/L	0.000573	0.00005	mg/L	0.000573	>999.9%
Al 308.215†	9.1	0.00974	mg/L	0.001744	0.00974	mg/L	0.001744	17.90%
As 188.979†	2.7	0.00215	mg/L	0.002362	0.00215	mg/L	0.002362	109.98%
B 249.677†	3.1	0.00061	mg/L	0.000738	0.00061	mg/L	0.000738	121.26%
Ba 233.527†	5.0	0.00084	mg/L	0.000194	0.00084	mg/L	0.000194	23.08%
Be 313.042†	-26.1	-0.00008	mg/L	0.000092	-0.00008	mg/L	0.000092	116.90%
Ca 317.933†	23.4	0.00328	mg/L	0.001158	0.00328	mg/L	0.001158	35.36%
Cd 228.802†	2.1	0.00011	mg/L	0.000214	0.00011	mg/L	0.000214	200.94%
Co 228.616†	5.0	0.00020	mg/L	0.000097	0.00020	mg/L	0.000097	48.31%
Cr 267.716†	1.9	0.00033	mg/L	0.000414	0.00033	mg/L	0.000414	125.82%
Cu 324.752†	35.8	0.00025	mg/L	0.000261	0.00025	mg/L	0.000261	105.02%
Fe 273.955†	4.5	0.00572	mg/L	0.003475	0.00572	mg/L	0.003475	60.71%
K 766.490†	60.4	0.04961	mg/L	0.024553	0.04961	mg/L	0.024553	49.49%
Mg 279.077†	6.3	0.00773	mg/L	0.006772	0.00773	mg/L	0.006772	87.66%
Mn 257.610†	0.4	0.00001	mg/L	0.000135	0.00001	mg/L	0.000135	939.25%
Mo 202.031†	10.5	0.00068	mg/L	0.000560	0.00068	mg/L	0.000560	82.56%
Na 589.592†	398.6	0.05327	mg/L	0.003639	0.05327	mg/L	0.003639	6.83%
Na 330.237†	17.3	1.030	mg/L	1.1300	1.030	mg/L	1.1300	109.75%
Ni 231.604†	-0.3	-0.00009	mg/L	0.001289	-0.00009	mg/L	0.001289	>999.9%
Pb 220.353†	2.0	0.00031	mg/L	0.000687	0.00031	mg/L	0.000687	220.12%
Sb 206.836†	-0.9	-0.00040	mg/L	0.001044	-0.00040	mg/L	0.001044	260.91%
Se 196.026†	0.1	0.00010	mg/L	0.001782	0.00010	mg/L	0.001782	>999.9%
Si 288.158†	-7.6	-0.00642	mg/L	0.002679	-0.00642	mg/L	0.002679	41.73%
Sn 189.927†	-1.6	-0.00055	mg/L	0.001206	-0.00055	mg/L	0.001206	219.33%
Sr 421.552†	-26.1	-0.00005	mg/L	0.000082	-0.00005	mg/L	0.000082	155.99%
Ti 334.903†	-20.3	-0.00141	mg/L	0.000653	-0.00141	mg/L	0.000653	46.16%
Tl 190.801†	1.9	0.00129	mg/L	0.000553	0.00129	mg/L	0.000553	42.96%
V 292.402†	-18.4	-0.00018	mg/L	0.000136	-0.00018	mg/L	0.000136	76.20%
Zn 206.200†	1.0	0.00031	mg/L	0.000471	0.00031	mg/L	0.000471	154.02%

Sequence No.: 51
Sample ID: BEJ0777-BLK1

Autosampler Location: 354
Date Collected: 10/28/2016 4:08:37 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0777-BLK1

Analyte	Back Pressure	Flow
All	152.0 kPa	0.65 L/min

Mean Data: BEJ0777-BLK1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1875895.4	107.2	%	0.71				0.67%
ScR 361.383	208043.9	108.1	%	0.38				0.35%
Ag 328.068†	-17.1	-0.00013	mg/L	0.000212	-0.00013	mg/L	0.000212	160.28%
Al 308.215†	25.6	0.02745	mg/L	0.011760	0.02745	mg/L	0.011760	42.84%
As 188.979†	1.9	0.00164	mg/L	0.000636	0.00164	mg/L	0.000636	38.76%
B 249.677†	-2.7	-0.00052	mg/L	0.001619	-0.00052	mg/L	0.001619	311.14%
Ba 233.527†	1.6	0.00026	mg/L	0.000780	0.00026	mg/L	0.000780	295.10%
Be 313.042†	-52.6	-0.00016	mg/L	0.000054	-0.00016	mg/L	0.000054	33.78%
Ca 317.933†	261.5	0.03653	mg/L	0.000258	0.03653	mg/L	0.000258	0.71%
Cd 228.802†	-2.6	-0.00016	mg/L	0.000059	-0.00016	mg/L	0.000059	36.22%
Co 228.616†	-2.9	-0.00012	mg/L	0.000143	-0.00012	mg/L	0.000143	116.04%
Cr 267.716†	6.3	0.00110	mg/L	0.000230	0.00110	mg/L	0.000230	20.92%
Cu 324.752†	48.4	0.00034	mg/L	0.000156	0.00034	mg/L	0.000156	46.57%
Fe 273.955†	7.0	0.00896	mg/L	0.002905	0.00896	mg/L	0.002905	32.42%
K 766.490†	59.5	0.04892	mg/L	0.026553	0.04892	mg/L	0.026553	54.28%
Mg 279.077†	18.2	0.02231	mg/L	0.001747	0.02231	mg/L	0.001747	7.83%
Mn 257.610†	-0.9	-0.00003	mg/L	0.000067	-0.00003	mg/L	0.000067	215.01%
Mo 202.031†	7.5	0.00048	mg/L	0.000063	0.00048	mg/L	0.000063	13.07%
Na 589.592†	613.0	0.08192	mg/L	0.011867	0.08192	mg/L	0.011867	14.49%
Na 330.237†	19.3	1.144	mg/L	0.5715	1.144	mg/L	0.5715	49.94%
Ni 231.604†	-4.9	-0.00137	mg/L	0.001840	-0.00137	mg/L	0.001840	134.63%
Pb 220.353†	3.1	0.00047	mg/L	0.001310	0.00047	mg/L	0.001310	277.68%
Sb 206.836†	-2.2	-0.00094	mg/L	0.001795	-0.00094	mg/L	0.001795	191.41%
Se 196.026†	-3.7	-0.00397	mg/L	0.001454	-0.00397	mg/L	0.001454	36.61%
Si 288.158†	-9.1	-0.00777	mg/L	0.005871	-0.00777	mg/L	0.005871	75.59%
Sn 189.927†	0.2	0.00009	mg/L	0.001122	0.00009	mg/L	0.001122	>999.9%
Sr 421.552†	-36.4	-0.00007	mg/L	0.000009	-0.00007	mg/L	0.000009	11.81%
Ti 334.903†	58.6	0.00407	mg/L	0.000884	0.00407	mg/L	0.000884	21.71%
Tl 190.801†	-4.0	-0.00276	mg/L	0.001499	-0.00276	mg/L	0.001499	54.33%
V 292.402†	-13.8	-0.00013	mg/L	0.000170	-0.00013	mg/L	0.000170	127.77%
Zn 206.200†	17.7	0.00555	mg/L	0.000234	0.00555	mg/L	0.000234	4.21%

Sequence No.: 52
Sample ID: 16J0413-05

Dilution: 2.000000X

Autosampler Location: 355
Date Collected: 10/28/2016 4:12:37 PM
Data Type: Original

Nebulizer Parameters: 16J0413-05

Analyte	Back Pressure	Flow
All	151.0 kPa	0.65 L/min

Mean Data: 16J0413-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1887010.1	107.8	%	0.35				0.32%
ScR 361.383	209192.1	108.7	%	0.71				0.65%
Ag 328.068†	-225.8	-0.00159	mg/L	0.000089	-0.00317	mg/L	0.000177	5.59%
Al 308.215†	145913.5	156.6	mg/L	0.40	313.1	mg/L	0.80	0.26%
As 188.979†	187.5	0.3645	mg/L	0.00103	0.7290	mg/L	0.00205	0.28%
B 249.677†	81.0	0.01368	mg/L	0.002408	0.02736	mg/L	0.004815	17.60%
Ba 233.527†	3807.5	0.6179	mg/L	0.00363	1.236	mg/L	0.0073	0.59%
Be 313.042†	644.2	0.00183	mg/L	0.000029	0.00365	mg/L	0.000058	1.60%
Ca 317.933†	520048.2	72.65	mg/L	0.082	145.3	mg/L	0.16	0.11%
Cd 228.802†	78.9	0.00191	mg/L	0.000219	0.00383	mg/L	0.000438	11.46%
Co 228.616†	3435.1	0.1229	mg/L	0.00102	0.2457	mg/L	0.00203	0.83%
Cr 267.716†	1482.8	0.2633	mg/L	0.00251	0.5265	mg/L	0.00502	0.95%
Cu 324.752†	27529.8	0.2003	mg/L	0.00028	0.4006	mg/L	0.00055	0.14%
Fe 273.955†	171273.5	218.3	mg/L	0.84	436.6	mg/L	1.68	0.38%
K 766.490†	10213.9	8.394	mg/L	0.0337	16.79	mg/L	0.067	0.40%
Mg 279.077†	53871.5	65.97	mg/L	0.164	131.9	mg/L	0.33	0.25%
Mn 257.610†	81340.0	2.736	mg/L	0.0085	5.472	mg/L	0.0169	0.31%
Mo 202.031†	99.2	0.00532	mg/L	0.000474	0.01063	mg/L	0.000947	8.91%
Na 589.592†	46638.6	6.233	mg/L	0.0202	12.47	mg/L	0.040	0.32%
Na 330.237†	93.1	6.981	mg/L	0.2788	13.96	mg/L	0.558	3.99%
Ni 231.604†	689.0	0.1927	mg/L	0.00359	0.3854	mg/L	0.00717	1.86%
Pb 220.353†	287.0	0.08231	mg/L	0.000937	0.1646	mg/L	0.00187	1.14%
Sb 206.836†	39.8	0.01867	mg/L	0.003023	0.03733	mg/L	0.006046	16.20%
Se 196.026†	38.2	0.02475	mg/L	0.007203	0.04950	mg/L	0.014406	29.10%
Si 288.158†	1190.2	0.9704	mg/L	0.00778	1.941	mg/L	0.0156	0.80%
Sn 189.927†	-102.2	-0.01719	mg/L	0.001597	-0.03438	mg/L	0.003194	9.29%
Sr 421.552†	252149.5	0.5081	mg/L	0.00092	1.016	mg/L	0.0018	0.18%
Ti 334.903†	101389.6	7.050	mg/L	0.0208	14.10	mg/L	0.042	0.29%
Tl 190.801†	-36.7	-0.00211	mg/L	0.003194	-0.00422	mg/L	0.006388	151.38%
V 292.402†	54483.8	0.5258	mg/L	0.00032	1.052	mg/L	0.0006	0.06%
Zn 206.200†	1894.9	0.5957	mg/L	0.00286	1.191	mg/L	0.0057	0.48%

Sequence No.: 53
Sample ID: 16J0413-06

Dilution: 2.000000X

Autosampler Location: 356
Date Collected: 10/28/2016 4:16:23 PM
Data Type: Original

Nebulizer Parameters: 16J0413-06

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: 16J0413-06

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1873043.8	107.0	%	0.40				0.37%
ScR 361.383	209940.9	109.1	%	1.19				1.09%
Ag 328.068†	-206.7	-0.00144	mg/L	0.000162	-0.00287	mg/L	0.000324	11.27%
Al 308.215†	173502.1	186.2	mg/L	1.13	372.4	mg/L	2.26	0.61%
As 188.979†	-217.7	0.04966	mg/L	0.001805	0.09931	mg/L	0.003609	3.63%
B 249.677†	67.4	0.01096	mg/L	0.000791	0.02192	mg/L	0.001583	7.22%
Ba 233.527†	4537.4	0.7369	mg/L	0.00805	1.474	mg/L	0.0161	1.09%
Be 313.042†	838.7	0.00242	mg/L	0.000089	0.00483	mg/L	0.000178	3.68%
Ca 317.933†	715802.1	100.00	mg/L	0.092	200.0	mg/L	0.18	0.09%
Cd 228.802†	43.9	0.00166	mg/L	0.000394	0.00332	mg/L	0.000788	23.77%
Co 228.616†	2882.8	0.09992	mg/L	0.000330	0.1998	mg/L	0.00066	0.33%
Cr 267.716†	1552.1	0.2764	mg/L	0.00271	0.5527	mg/L	0.00543	0.98%
Cu 324.752†	46044.3	0.3307	mg/L	0.00035	0.6613	mg/L	0.00070	0.11%
Fe 273.955†	199992.8	254.9	mg/L	1.01	509.8	mg/L	2.02	0.40%
K 766.490†	15005.7	12.33	mg/L	0.058	24.66	mg/L	0.116	0.47%
Mg 279.077†	62731.0	76.81	mg/L	0.295	153.6	mg/L	0.59	0.38%
Mn 257.610†	111775.7	3.760	mg/L	0.0123	7.519	mg/L	0.0247	0.33%
Mo 202.031†	126.2	0.00665	mg/L	0.000180	0.01331	mg/L	0.000361	2.71%
Na 589.592†	56987.6	7.616	mg/L	0.0459	15.23	mg/L	0.092	0.60%
Na 330.237†	110.5	8.169	mg/L	0.3367	16.34	mg/L	0.673	4.12%
Ni 231.604†	903.7	0.2528	mg/L	0.00107	0.5055	mg/L	0.00215	0.42%
Pb 220.353†	710.6	0.1535	mg/L	0.00076	0.3069	mg/L	0.00153	0.50%
Sb 206.836†	42.1	0.01979	mg/L	0.002928	0.03958	mg/L	0.005855	14.79%
Se 196.026†	46.9	0.03114	mg/L	0.003974	0.06228	mg/L	0.007947	12.76%
Si 288.158†	1236.9	1.007	mg/L	0.0080	2.014	mg/L	0.0161	0.80%
Sn 189.927†	-112.6	-0.01444	mg/L	0.002130	-0.02888	mg/L	0.004259	14.75%
Sr 421.552†	280024.8	0.5643	mg/L	0.00298	1.129	mg/L	0.0060	0.53%
Ti 334.903†	109854.1	7.637	mg/L	0.0287	15.27	mg/L	0.057	0.38%
Tl 190.801†	-36.6	0.00131	mg/L	0.007113	0.00262	mg/L	0.014227	542.13%
V 292.402†	55108.0	0.5304	mg/L	0.00035	1.061	mg/L	0.0007	0.07%
Zn 206.200†	1764.5	0.5547	mg/L	0.00443	1.109	mg/L	0.0089	0.80%

Sequence No.: 54
Sample ID: 16J0413-07

Dilution: 2.000000X

Autosampler Location: 357
Date Collected: 10/28/2016 4:20:09 PM
Data Type: Original

Nebulizer Parameters: 16J0413-07

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: 16J0413-07

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1842029.9	105.2	%	0.26				0.25%
ScR 361.383	205503.3	106.8	%	0.70				0.65%
Ag 328.068†	-264.2	-0.00191	mg/L	0.000089	-0.00382	mg/L	0.000177	4.64%
Al 308.215†	153293.7	164.5	mg/L	0.63	329.0	mg/L	1.27	0.39%
As 188.979†	-202.2	0.04285	mg/L	0.002011	0.08570	mg/L	0.004022	4.69%
B 249.677†	127.4	0.02269	mg/L	0.001511	0.04537	mg/L	0.003022	6.66%
Ba 233.527†	5200.6	0.8536	mg/L	0.00097	1.707	mg/L	0.0019	0.11%
Be 313.042†	919.4	0.00268	mg/L	0.000007	0.00537	mg/L	0.000015	0.27%
Ca 317.933†	2309575.9	322.6	mg/L	1.07	645.3	mg/L	2.14	0.33%
Cd 228.802†	30.8	0.00114	mg/L	0.000022	0.00228	mg/L	0.000044	1.90%
Co 228.616†	2323.9	0.07823	mg/L	0.000717	0.1565	mg/L	0.00143	0.92%
Cr 267.716†	1196.1	0.2136	mg/L	0.00144	0.4272	mg/L	0.00288	0.67%
Cu 324.752†	64711.9	0.4584	mg/L	0.00077	0.9168	mg/L	0.00154	0.17%
Fe 273.955†	164872.2	210.1	mg/L	0.63	420.3	mg/L	1.26	0.30%
K 766.490†	11738.8	9.647	mg/L	0.0378	19.29	mg/L	0.076	0.39%
Mg 279.077†	49114.8	60.13	mg/L	0.093	120.3	mg/L	0.19	0.15%
Mn 257.610†	90292.8	3.037	mg/L	0.0044	6.074	mg/L	0.0088	0.14%
Mo 202.031†	208.3	0.00867	mg/L	0.000366	0.01733	mg/L	0.000732	4.22%
Na 589.592†	46466.8	6.210	mg/L	0.0078	12.42	mg/L	0.016	0.13%
Na 330.237†	83.0	6.368	mg/L	0.1446	12.74	mg/L	0.289	2.27%
Ni 231.604†	656.5	0.1836	mg/L	0.00173	0.3672	mg/L	0.00345	0.94%
Pb 220.353†	108.1	0.05679	mg/L	0.000495	0.1136	mg/L	0.00099	0.87%
Sb 206.836†	43.2	0.02070	mg/L	0.001232	0.04140	mg/L	0.002464	5.95%
Se 196.026†	54.7	0.04190	mg/L	0.004810	0.08381	mg/L	0.009620	11.48%
Si 288.158†	586.5	0.4526	mg/L	0.00512	0.9053	mg/L	0.01025	1.13%
Sn 189.927†	-103.7	0.03923	mg/L	0.002956	0.07847	mg/L	0.005913	7.54%
Sr 421.552†	448393.3	0.9035	mg/L	0.00175	1.807	mg/L	0.0035	0.19%
Ti 334.903†	106595.6	7.394	mg/L	0.0194	14.79	mg/L	0.039	0.26%
Tl 190.801†	-19.5	-0.00335	mg/L	0.003302	-0.00671	mg/L	0.006605	98.48%
V 292.402†	45320.8	0.4354	mg/L	0.00033	0.8708	mg/L	0.00066	0.08%
Zn 206.200†	2709.8	0.8517	mg/L	0.00289	1.703	mg/L	0.0058	0.34%

Sequence No.: 55
Sample ID: 16J0413-08

Del

Dilution: 2.000000X

Autosampler Location: 358
Date Collected: 10/28/2016 4:23:56 PM
Data Type: Original

Nebulizer Parameters: 16J0413-08

Analyte	Back Pressure	Flow
All	151.0 kPa	0.65 L/min

Mean Data: 16J0413-08

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1779046.6	101.6	%	0.40				0.39%
ScR 361.383	201021.7	104.4	%	0.35				0.34%
Ag 328.068†	-297.1	-0.00218	mg/L	0.000195	-0.00437	mg/L	0.000389	8.91%
Al 308.215†	137988.2	148.1	mg/L	0.68	296.1	mg/L	1.36	0.46%
As 188.979†	-108.7	0.05577	mg/L	0.001710	0.1115	mg/L	0.00342	3.07%
B 249.677†	247.7	0.04622	mg/L	0.000810	0.09244	mg/L	0.001621	1.75%
Ba 233.527†	9611.3	1.602	mg/L	0.0049	3.204	mg/L	0.0098	0.30%
Be 313.042†	422.7	0.00119	mg/L	0.000015	0.00238	mg/L	0.000029	1.23%
Ca 317.933†	5794305.8	809.4	mg/L	12.21	1619	mg/L	24.43	1.51%
Cd 228.802†	39.2	0.00148	mg/L	0.000401	0.00296	mg/L	0.000801	27.02%
Co 228.616†	2361.0	0.08167	mg/L	0.000486	0.1633	mg/L	0.00097	0.59%
Cr 267.716†	1206.7	0.2140	mg/L	0.00188	0.4279	mg/L	0.00377	0.88%
Cu 324.752†	102231.9	0.7174	mg/L	0.00063	1.435	mg/L	0.0013	0.09%
Fe 273.955†	129759.4	165.4	mg/L	0.95	330.8	mg/L	1.89	0.57%
K 766.490†	8893.0	7.308	mg/L	0.0087	14.62	mg/L	0.017	0.12%
Mg 279.077†	39962.6	48.93	mg/L	0.206	97.86	mg/L	0.413	0.42%
Mn 257.610†	79885.0	2.687	mg/L	0.0134	5.374	mg/L	0.0267	0.50%
Mo 202.031†	332.4	0.00950	mg/L	0.000253	0.01899	mg/L	0.000506	2.66%
Na 589.592†	45335.5	6.058	mg/L	0.0242	12.12	mg/L	0.048	0.40%
Na 330.237†	78.9	5.549	mg/L	0.3260	11.10	mg/L	0.652	5.88%
Ni 231.604†	500.7	0.1401	mg/L	0.00166	0.2801	mg/L	0.00333	1.19%
Pb 220.353†	565.0	0.1214	mg/L	0.00086	0.2428	mg/L	0.00172	0.71%
Sb 206.836†	66.7	0.02966	mg/L	0.002503	0.05932	mg/L	0.005005	8.44%
Se 196.026†	50.1	0.03864	mg/L	0.004326	0.07729	mg/L	0.008652	11.19%
Si 288.158†	378.3	0.2820	mg/L	0.00429	0.5639	mg/L	0.00858	1.52%
Sn 189.927†	-39.5	0.1719	mg/L	0.00363	0.3439	mg/L	0.00726	2.11%
Sr 421.552†	1101062.6	2.219	mg/L	0.0094	4.437	mg/L	0.0189	0.42%
Ti 334.903†	90665.9	6.250	mg/L	0.0240	12.50	mg/L	0.048	0.38%
Tl 190.801†	-3.4	-0.02303	mg/L	0.004077	-0.04606	mg/L	0.008155	17.71%
V 292.402†	38381.2	0.3694	mg/L	0.00045	0.7388	mg/L	0.00090	0.12%
Zn 206.200†	5423.6	1.704	mg/L	0.0028	3.409	mg/L	0.0056	0.16%

Sequence No.: 56
Sample ID: 16H0147-01

Autosampler Location: 359
Date Collected: 10/28/2016 4:28:01 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16H0147-01

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: 16H0147-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1817734.2	103.8	%	0.58				0.56%
ScR 361.383	206389.8	107.2	%	0.36				0.33%
Ag 328.068†	73.7	0.00057	mg/L	0.000096	0.00057	mg/L	0.000096	16.88%
Al 308.215†	280.8	0.3011	mg/L	0.01176	0.3011	mg/L	0.01176	3.91%
As 188.979†	83.9	0.06725	mg/L	0.002742	0.06725	mg/L	0.002742	4.08%
B 249.677†	999.2	0.1933	mg/L	0.00108	0.1933	mg/L	0.00108	0.56%
Ba 233.527†	22.5	0.00365	mg/L	0.000590	0.00365	mg/L	0.000590	16.15%
Be 313.042†	13.9	0.00004	mg/L	0.000020	0.00004	mg/L	0.000020	47.09%
Ca 317.933†	220500.1	30.80	mg/L	0.061	30.80	mg/L	0.061	0.20%
Cd 228.802†	873.6	0.05013	mg/L	0.000615	0.05013	mg/L	0.000615	1.23%
Co 228.616†	61.0	0.00237	mg/L	0.000189	0.00237	mg/L	0.000189	7.98%
Cr 267.716†	38.7	0.00448	mg/L	0.000546	0.00448	mg/L	0.000546	12.20%
Cu 324.752†	6711.3	0.04570	mg/L	0.000425	0.04570	mg/L	0.000425	0.93%
Fe 273.955†	998.9	1.273	mg/L	0.0058	1.273	mg/L	0.0058	0.45%
K 766.490†	131434.7	108.0	mg/L	0.36	108.0	mg/L	0.36	0.33%
Mg 279.077†	24782.3	30.42	mg/L	0.028	30.42	mg/L	0.028	0.09%
Mn 257.610†	1556.3	0.05211	mg/L	0.000189	0.05211	mg/L	0.000189	0.36%
Mo 202.031†	160.5	0.00988	mg/L	0.000203	0.00988	mg/L	0.000203	2.06%
Na 589.592†	1569175.3	209.7	mg/L	0.16	209.7	mg/L	0.16	0.08%
Na 330.237†	3573.3	212.0	mg/L	0.91	212.0	mg/L	0.91	0.43%
Ni 231.604†	25.0	0.00700	mg/L	0.001449	0.00700	mg/L	0.001449	20.69%
Pb 220.353†	15.7	0.00239	mg/L	0.000660	0.00239	mg/L	0.000660	27.66%
Sb 206.836†	1.6	0.00045	mg/L	0.000920	0.00045	mg/L	0.000920	205.45%
Se 196.026†	28.5	0.03079	mg/L	0.004813	0.03079	mg/L	0.004813	15.63%
Si 288.158†	721.6	0.6189	mg/L	0.00724	0.6189	mg/L	0.00724	1.17%
Sn 189.927†	-46.4	-0.00902	mg/L	0.001102	-0.00902	mg/L	0.001102	12.22%
Sr 421.552†	143613.4	0.2894	mg/L	0.00020	0.2894	mg/L	0.00020	0.07%
Ti 334.903†	331.1	0.02082	mg/L	0.000527	0.02082	mg/L	0.000527	2.53%
Tl 190.801†	2.7	0.00043	mg/L	0.002180	0.00043	mg/L	0.002180	512.74%
V 292.402†	287.0	0.00281	mg/L	0.000208	0.00281	mg/L	0.000208	7.42%
Zn 206.200†	2798.0	0.8794	mg/L	0.00432	0.8794	mg/L	0.00432	0.49%

Sequence No.: 57
Sample ID: BEJ0777-DUP1

Autosampler Location: 360
Date Collected: 10/28/2016 4:32:16 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: BEJ0777-DUP1

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: BEJ0777-DUP1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1803325.3	103.0	%	0.37				0.36%
ScR 361.383	206038.1	107.0	%	0.41				0.38%
Ag 328.068†	47.2	0.00037	mg/L	0.000154	0.00037	mg/L	0.000154	42.13%
Al 308.215†	1513.8	1.624	mg/L	0.0071	1.624	mg/L	0.0071	0.44%
As 188.979†	69.4	0.05670	mg/L	0.001713	0.05670	mg/L	0.001713	3.02%
B 249.677†	1150.5	0.2225	mg/L	0.00038	0.2225	mg/L	0.00038	0.17%
Ba 233.527†	32.5	0.00513	mg/L	0.000174	0.00513	mg/L	0.000174	3.39%
Be 313.042†	0.4	-0.00000	mg/L	0.000031	-0.00000	mg/L	0.000031	>999.9%
Ca 317.933†	282262.0	39.43	mg/L	0.337	39.43	mg/L	0.337	0.85%
Cd 228.802†	504.8	0.02885	mg/L	0.000339	0.02885	mg/L	0.000339	1.17%
Co 228.616†	81.1	0.00305	mg/L	0.000003	0.00305	mg/L	0.000003	0.09%
Cr 267.716†	115.0	0.01692	mg/L	0.000840	0.01692	mg/L	0.000840	4.97%
Cu 324.752†	6852.8	0.04681	mg/L	0.000401	0.04681	mg/L	0.000401	0.86%
Fe 273.955†	2510.4	3.200	mg/L	0.0082	3.200	mg/L	0.0082	0.26%
K 766.490†	100694.0	82.75	mg/L	0.414	82.75	mg/L	0.414	0.50%
Mg 279.077†	34220.9	42.01	mg/L	0.075	42.01	mg/L	0.075	0.18%
Mn 257.610†	3215.6	0.1078	mg/L	0.00031	0.1078	mg/L	0.00031	0.28%
Mo 202.031†	161.9	0.00984	mg/L	0.000271	0.00984	mg/L	0.000271	2.76%
Na 589.592†	2228275.1	297.8	mg/L	1.21	297.8	mg/L	1.21	0.41%
Na 330.237†	5107.7	303.2	mg/L	1.13	303.2	mg/L	1.13	0.37%
Ni 231.604†	36.8	0.01030	mg/L	0.001636	0.01030	mg/L	0.001636	15.88%
Pb 220.353†	24.1	0.00401	mg/L	0.001125	0.00401	mg/L	0.001125	28.03%
Sb 206.836†	4.6	0.00147	mg/L	0.001799	0.00147	mg/L	0.001799	122.64%
Se 196.026†	22.6	0.02433	mg/L	0.004669	0.02433	mg/L	0.004669	19.19%
Si 288.158†	925.2	0.7934	mg/L	0.00665	0.7934	mg/L	0.00665	0.84%
Sn 189.927†	-63.1	-0.01279	mg/L	0.000489	-0.01279	mg/L	0.000489	3.83%
Sr 421.552†	164129.5	0.3307	mg/L	0.00052	0.3307	mg/L	0.00052	0.16%
Ti 334.903†	1195.0	0.08030	mg/L	0.001720	0.08030	mg/L	0.001720	2.14%
Tl 190.801†	5.8	0.00229	mg/L	0.002597	0.00229	mg/L	0.002597	113.25%
V 292.402†	702.6	0.00686	mg/L	0.000047	0.00686	mg/L	0.000047	0.68%
Zn 206.200†	2478.5	0.7791	mg/L	0.00348	0.7791	mg/L	0.00348	0.45%

Sequence No.: 58
Sample ID: 16J0187-01

Autosampler Location: 361
Date Collected: 10/28/2016 4:36:31 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0187-01

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: 16J0187-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1818131.1	103.9	%	0.23				0.22%
ScR 361.383	208477.3	108.3	%	0.59				0.55%
Ag 328.068†	57.5	0.00045	mg/L	0.000390	0.00045	mg/L	0.000390	87.45%
Al 308.215†	1593.0	1.709	mg/L	0.0120	1.709	mg/L	0.0120	0.70%
As 188.979†	70.4	0.05738	mg/L	0.003573	0.05738	mg/L	0.003573	6.23%
B 249.677†	1126.2	0.2178	mg/L	0.00157	0.2178	mg/L	0.00157	0.72%
Ba 233.527†	33.5	0.00529	mg/L	0.000692	0.00529	mg/L	0.000692	13.10%
Be 313.042†	-16.4	-0.00005	mg/L	0.000017	-0.00005	mg/L	0.000017	32.48%
Ca 317.933†	302911.9	42.32	mg/L	0.659	42.32	mg/L	0.659	1.56%
Cd 228.802†	500.1	0.02857	mg/L	0.000237	0.02857	mg/L	0.000237	0.83%
Co 228.616†	84.1	0.00317	mg/L	0.000132	0.00317	mg/L	0.000132	4.17%
Cr 267.716†	109.3	0.01595	mg/L	0.000493	0.01595	mg/L	0.000493	3.09%
Cu 324.752†	6797.4	0.04644	mg/L	0.000153	0.04644	mg/L	0.000153	0.33%
Fe 273.955†	2563.4	3.267	mg/L	0.0212	3.267	mg/L	0.0212	0.65%
K 766.490†	100323.2	82.44	mg/L	0.554	82.44	mg/L	0.554	0.67%
Mg 279.077†	33911.6	41.63	mg/L	0.100	41.63	mg/L	0.100	0.24%
Mn 257.610†	3147.0	0.1055	mg/L	0.00090	0.1055	mg/L	0.00090	0.86%
Mo 202.031†	164.8	0.00999	mg/L	0.000073	0.00999	mg/L	0.000073	0.73%
Na 589.592†	2207382.0	295.0	mg/L	3.49	295.0	mg/L	3.49	1.18%
Na 330.237†	5074.8	301.2	mg/L	0.64	301.2	mg/L	0.64	0.21%
Ni 231.604†	33.7	0.00943	mg/L	0.001493	0.00943	mg/L	0.001493	15.83%
Pb 220.353†	28.3	0.00466	mg/L	0.001597	0.00466	mg/L	0.001597	34.28%
Sb 206.836†	0.3	-0.00029	mg/L	0.001026	-0.00029	mg/L	0.001026	355.45%
Se 196.026†	25.8	0.02775	mg/L	0.000998	0.02775	mg/L	0.000998	3.60%
Si 288.158†	784.2	0.6733	mg/L	0.00394	0.6733	mg/L	0.00394	0.58%
Sn 189.927†	-64.3	-0.01257	mg/L	0.000805	-0.01257	mg/L	0.000805	6.41%
Sr 421.552†	170003.8	0.3426	mg/L	0.00083	0.3426	mg/L	0.00083	0.24%
Ti 334.903†	1212.8	0.08133	mg/L	0.000676	0.08133	mg/L	0.000676	0.83%
Tl 190.801†	10.3	0.00529	mg/L	0.001909	0.00529	mg/L	0.001909	36.10%
V 292.402†	719.5	0.00702	mg/L	0.000147	0.00702	mg/L	0.000147	2.09%
Zn 206.200†	2429.2	0.7635	mg/L	0.00505	0.7635	mg/L	0.00505	0.66%

Sequence No.: 59
Sample ID: BEJ0777-MS1

ICP-MS SPIKE #1
YH 10-28-16

Dilution: 1.000000X

Autosampler Location: 362
Date Collected: 10/28/2016 4:40:47 PM
Data Type: Original

Nebulizer Parameters: BEJ0777-MS1

Analyte	Back Pressure	Flow
All	151.0 kPa	0.65 L/min

Mean Data: BEJ0777-MS1

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1807197.7	103.2	%	0.60				0.58%
ScR 361.383	207635.1	107.9	%	0.21				0.20%
Ag 328.068†	26251.2	0.2027	mg/L	0.00072	0.2027	mg/L	0.00072	0.35%
Al 308.215†	1647.0	1.760	mg/L	0.0046	1.760	mg/L	0.0046	0.26%
As 188.979†	699.0	0.5696	mg/L	0.00718	0.5696	mg/L	0.00718	1.26%
B 249.677†	1119.5	0.2151	mg/L	0.00058	0.2151	mg/L	0.00058	0.27%
Ba 233.527†	3028.7	0.5102	mg/L	0.00045	0.5102	mg/L	0.00045	0.09%
Be 313.042†	160721.5	0.4875	mg/L	0.00116	0.4875	mg/L	0.00116	0.24%
Ca 317.933†	424499.2	59.30	mg/L	0.133	59.30	mg/L	0.133	0.22%
Cd 228.802†	8871.6	0.5102	mg/L	0.00351	0.5102	mg/L	0.00351	0.69%
Co 228.616†	12733.1	0.5033	mg/L	0.00234	0.5033	mg/L	0.00234	0.46%
Cr 267.716†	3026.0	0.5211	mg/L	0.00178	0.5211	mg/L	0.00178	0.34%
Cu 324.752†	78835.3	0.5475	mg/L	0.00366	0.5475	mg/L	0.00366	0.67%
Fe 273.955†	2624.0	3.340	mg/L	0.0143	3.340	mg/L	0.0143	0.43%
K 766.490†	99613.9	81.86	mg/L	0.320	81.86	mg/L	0.320	0.39%
Mg 279.077†	35351.1	43.40	mg/L	0.095	43.40	mg/L	0.095	0.22%
Mn 257.610†	17477.4	0.5877	mg/L	0.00172	0.5877	mg/L	0.00172	0.29%
Mo 202.031†	168.8	0.01000	mg/L	0.000481	0.01000	mg/L	0.000481	4.81%
Na 589.592†	2191831.4	292.9	mg/L	0.50	292.9	mg/L	0.50	0.17%
Na 330.237†	5233.3	310.1	mg/L	0.64	310.1	mg/L	0.64	0.21%
Ni 231.604†	1832.0	0.5121	mg/L	0.00163	0.5121	mg/L	0.00163	0.32%
Pb 220.353†	3228.0	0.4882	mg/L	0.00219	0.4882	mg/L	0.00219	0.45%
Sb 206.836†	17.8	0.00097	mg/L	0.000497	0.00097	mg/L	0.000497	51.41%
Se 196.026†	1621.9	1.755	mg/L	0.0033	1.755	mg/L	0.0033	0.19%
Si 288.158†	1275.6	1.093	mg/L	0.0095	1.093	mg/L	0.0095	0.87%
Sn 189.927†	-72.8	-0.01161	mg/L	0.001094	-0.01161	mg/L	0.001094	9.42%
Sr 421.552†	179619.9	0.3619	mg/L	0.00064	0.3619	mg/L	0.00064	0.18%
Ti 334.903†	1628.0	0.1089	mg/L	0.00029	0.1089	mg/L	0.00029	0.27%
Tl 190.801†	703.1	0.4732	mg/L	0.00567	0.4732	mg/L	0.00567	1.20%
V 292.402†	52706.7	0.5215	mg/L	0.00292	0.5215	mg/L	0.00292	0.56%
Zn 206.200†	7586.3	2.384	mg/L	0.0045	2.384	mg/L	0.0045	0.19%

Sequence No.: 60
Sample ID: BEJ0777-BS1

ICP-MS SPIKE #1
TH 10-28-16

Dilution: 2.000000X

Autosampler Location: 363
Date Collected: 10/28/2016 4:45:03 PM
Data Type: Original

Nebulizer Parameters: BEJ0777-BS1

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: BEJ0777-BS1

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1901614.9	108.6	%	0.27				0.25%
ScR 361.383	211287.3	109.8	%	0.35				0.32%
Ag 328.068†	34327.3	0.2650	mg/L	0.00208	0.5299	mg/L	0.00415	0.78%
Al 308.215†	33.0	0.03174	mg/L	0.006918	0.06348	mg/L	0.013836	21.79%
As 188.979†	310.2	0.2528	mg/L	0.00282	0.5057	mg/L	0.00564	1.12%
B 249.677†	-5.6	-0.00178	mg/L	0.000567	-0.00356	mg/L	0.001134	31.84%
Ba 233.527†	1521.2	0.2564	mg/L	0.00164	0.5128	mg/L	0.00327	0.64%
Be 313.042†	80483.9	0.2441	mg/L	0.00069	0.4882	mg/L	0.00138	0.28%
Ca 317.933†	107.2	0.01498	mg/L	0.000628	0.02996	mg/L	0.001255	4.19%
Cd 228.802†	4251.6	0.2447	mg/L	0.00220	0.4893	mg/L	0.00439	0.90%
Co 228.616†	6465.8	0.2557	mg/L	0.00240	0.5114	mg/L	0.00480	0.94%
Cr 267.716†	1506.3	0.2609	mg/L	0.00166	0.5219	mg/L	0.00333	0.64%
Cu 324.752†	37237.4	0.2590	mg/L	0.00232	0.5180	mg/L	0.00463	0.89%
Fe 273.955†	13.1	0.01461	mg/L	0.001497	0.02922	mg/L	0.002993	10.24%
K 766.490†	88.3	0.07259	mg/L	0.032069	0.1452	mg/L	0.06414	44.18%
Mg 279.077†	6.3	0.00851	mg/L	0.003723	0.01701	mg/L	0.007446	43.77%
Mn 257.610†	7343.9	0.2471	mg/L	0.00182	0.4943	mg/L	0.00364	0.74%
Mo 202.031†	2.3	0.00015	mg/L	0.000270	0.00029	mg/L	0.000540	183.18%
Na 589.592†	1111.3	0.1485	mg/L	0.02086	0.2970	mg/L	0.04172	14.05%
Na 330.237†	19.7	0.8646	mg/L	0.25801	1.729	mg/L	0.5160	29.84%
Ni 231.604†	938.8	0.2624	mg/L	0.00154	0.5248	mg/L	0.00307	0.59%
Pb 220.353†	1726.2	0.2609	mg/L	0.00148	0.5217	mg/L	0.00296	0.57%
Sb 206.836†	2.5	-0.00211	mg/L	0.001687	-0.00422	mg/L	0.003374	80.01%
Se 196.026†	739.5	0.8004	mg/L	0.00970	1.601	mg/L	0.0194	1.21%
Si 288.158†	-1.5	-0.00056	mg/L	0.001985	-0.00112	mg/L	0.003970	355.12%
Sn 189.927†	-1.5	-0.00051	mg/L	0.001262	-0.00103	mg/L	0.002525	245.57%
Sr 421.552†	-8.2	-0.00002	mg/L	0.000034	-0.00003	mg/L	0.000068	205.31%
Ti 334.903†	8.6	0.00053	mg/L	0.000116	0.00107	mg/L	0.000232	21.72%
Tl 190.801†	380.4	0.2577	mg/L	0.00088	0.5153	mg/L	0.00177	0.34%
V 292.402†	25950.5	0.2568	mg/L	0.00207	0.5137	mg/L	0.00414	0.81%
Zn 206.200†	2634.4	0.8279	mg/L	0.00695	1.656	mg/L	0.0139	0.84%

Sequence No.: 61
Sample ID: SEQ-CCV8

Autosampler Location: 7
Date Collected: 10/28/2016 4:49:02 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCV8

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: SEQ-CCV8

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1874635.4	107.1	%	0.59				0.55%
ScR 361.383	205346.2	106.7	%	0.16				0.15%
Ag 328.068†	135115.8	1.043	mg/L	0.0125	1.043	mg/L	0.0125	1.20%
Al 308.215†	1992.8	2.106	mg/L	0.0097	2.106	mg/L	0.0097	0.46%
As 188.979†	2491.8	2.059	mg/L	0.0105	2.059	mg/L	0.0105	0.51%
B 249.677†	5248.1	1.013	mg/L	0.0042	1.013	mg/L	0.0042	0.42%
Ba 233.527†	6189.7	1.043	mg/L	0.0036	1.043	mg/L	0.0036	0.34%
Be 313.042†	333230.1	1.011	mg/L	0.0039	1.011	mg/L	0.0039	0.39%
Ca 317.933†	15352.1	2.145	mg/L	0.0039	2.145	mg/L	0.0039	0.18%
Cd 228.802†	17413.3	0.9960	mg/L	0.01140	0.9960	mg/L	0.01140	1.14%
Co 228.616†	25527.4	1.008	mg/L	0.0107	1.008	mg/L	0.0107	1.06%
Cr 267.716†	6004.5	1.040	mg/L	0.0005	1.040	mg/L	0.0005	0.04%
Cu 324.752†	142257.0	0.9888	mg/L	0.00941	0.9888	mg/L	0.00941	0.95%
Fe 273.955†	1632.6	2.073	mg/L	0.0002	2.073	mg/L	0.0002	0.01%
K 766.490†	26094.3	21.44	mg/L	0.057	21.44	mg/L	0.057	0.26%
Mg 279.077†	1717.1	2.116	mg/L	0.0089	2.116	mg/L	0.0089	0.42%
Mn 257.610†	28231.3	0.9503	mg/L	0.00188	0.9503	mg/L	0.00188	0.20%
Mo 202.031†	15127.2	0.9739	mg/L	0.01123	0.9739	mg/L	0.01123	1.15%
Na 589.592†	383950.7	51.31	mg/L	0.103	51.31	mg/L	0.103	0.20%
Na 330.237†	914.8	54.20	mg/L	0.178	54.20	mg/L	0.178	0.33%
Ni 231.604†	3738.1	1.046	mg/L	0.0014	1.046	mg/L	0.0014	0.13%
Pb 220.353†	13257.3	2.004	mg/L	0.0266	2.004	mg/L	0.0266	1.33%
Sb 206.836†	5092.7	2.109	mg/L	0.0105	2.109	mg/L	0.0105	0.50%
Se 196.026†	1913.3	2.070	mg/L	0.0140	2.070	mg/L	0.0140	0.68%
Si 288.158†	2452.9	2.087	mg/L	0.0056	2.087	mg/L	0.0056	0.27%
Sn 189.927†	2901.7	1.004	mg/L	0.0084	1.004	mg/L	0.0084	0.84%
Sr 421.552†	510698.4	1.029	mg/L	0.0017	1.029	mg/L	0.0017	0.16%
Ti 334.903†	14441.2	1.004	mg/L	0.0037	1.004	mg/L	0.0037	0.37%
Tl 190.801†	3001.5	2.045	mg/L	0.0091	2.045	mg/L	0.0091	0.44%
V 292.402†	103293.0	1.022	mg/L	0.0122	1.022	mg/L	0.0122	1.19%
Zn 206.200†	3346.2	1.052	mg/L	0.0026	1.052	mg/L	0.0026	0.25%

Sequence No.: 62
Sample ID: SEQ-CCB8

Autosampler Location: 1
Date Collected: 10/28/2016 4:53:04 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCB8

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: SEQ-CCB8

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1886018.1	107.7	%	0.74				0.69%
ScR 361.383	206913.4	107.5	%	0.29				0.27%
Ag 328.068†	52.6	0.00041	mg/L	0.000148	0.00041	mg/L	0.000148	36.43%
Al 308.215†	6.8	0.00724	mg/L	0.007077	0.00724	mg/L	0.007077	97.79%
As 188.979†	1.2	0.00089	mg/L	0.001645	0.00089	mg/L	0.001645	185.75%
B 249.677†	-0.9	-0.00017	mg/L	0.001015	-0.00017	mg/L	0.001015	584.84%
Ba 233.527†	2.0	0.00034	mg/L	0.001468	0.00034	mg/L	0.001468	438.05%
Be 313.042†	-33.0	-0.00010	mg/L	0.000067	-0.00010	mg/L	0.000067	66.48%
Ca 317.933†	22.8	0.00318	mg/L	0.000234	0.00318	mg/L	0.000234	7.36%
Cd 228.802†	0.9	0.00004	mg/L	0.000240	0.00004	mg/L	0.000240	559.52%
Co 228.616†	-0.4	-0.00001	mg/L	0.000081	-0.00001	mg/L	0.000081	884.03%
Cr 267.716†	0.9	0.00015	mg/L	0.000918	0.00015	mg/L	0.000918	613.18%
Cu 324.752†	31.9	0.00022	mg/L	0.000082	0.00022	mg/L	0.000082	36.94%
Fe 273.955†	4.3	0.00552	mg/L	0.001479	0.00552	mg/L	0.001479	26.78%
K 766.490†	71.6	0.05888	mg/L	0.013710	0.05888	mg/L	0.013710	23.29%
Mg 279.077†	6.7	0.00827	mg/L	0.007928	0.00827	mg/L	0.007928	95.82%
Mn 257.610†	2.3	0.00008	mg/L	0.000059	0.00008	mg/L	0.000059	78.43%
Mo 202.031†	11.0	0.00071	mg/L	0.000295	0.00071	mg/L	0.000295	41.79%
Na 589.592†	317.2	0.04239	mg/L	0.005344	0.04239	mg/L	0.005344	12.61%
Na 330.237†	13.3	0.7887	mg/L	0.11728	0.7887	mg/L	0.11728	14.87%
Ni 231.604†	-2.4	-0.00068	mg/L	0.000880	-0.00068	mg/L	0.000880	128.58%
Pb 220.353†	-3.7	-0.00056	mg/L	0.000653	-0.00056	mg/L	0.000653	116.77%
Sb 206.836†	-3.1	-0.00129	mg/L	0.001520	-0.00129	mg/L	0.001520	118.32%
Se 196.026†	-1.5	-0.00165	mg/L	0.003286	-0.00165	mg/L	0.003286	198.84%
Si 288.158†	-3.1	-0.00260	mg/L	0.007109	-0.00260	mg/L	0.007109	273.38%
Sn 189.927†	0.4	0.00013	mg/L	0.001548	0.00013	mg/L	0.001548	>999.9%
Sr 421.552†	-2.0	-0.00000	mg/L	0.000050	-0.00000	mg/L	0.000050	>999.9%
Ti 334.903†	-36.8	-0.00256	mg/L	0.001895	-0.00256	mg/L	0.001895	73.99%
Tl 190.801†	3.4	0.00230	mg/L	0.003725	0.00230	mg/L	0.003725	161.95%
V 292.402†	0.6	0.00001	mg/L	0.000191	0.00001	mg/L	0.000191	>999.9%
Zn 206.200†	1.6	0.00050	mg/L	0.000326	0.00050	mg/L	0.000326	64.96%

Sequence No.: 63
Sample ID: 16H0268-01

Autosampler Location: 364
Date Collected: 10/28/2016 4:57:04 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16H0268-01

Analyte	Back Pressure	Flow
All	151.0 kPa	0.65 L/min

Mean Data: 16H0268-01

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1843250.2	105.3	%	0.38				0.36%
ScR 361.383	203928.5	105.9	%	0.59				0.56%
Ag 328.068†	27.3	0.00021	mg/L	0.000202	0.00021	mg/L	0.000202	95.86%
Al 308.215†	192.6	0.2063	mg/L	0.00660	0.2063	mg/L	0.00660	3.20%
As 188.979†	72.8	0.05841	mg/L	0.002605	0.05841	mg/L	0.002605	4.46%
B 249.677†	967.3	0.1871	mg/L	0.00097	0.1871	mg/L	0.00097	0.52%
Ba 233.527†	41.4	0.00687	mg/L	0.000409	0.00687	mg/L	0.000409	5.95%
Be 313.042†	18.2	0.00005	mg/L	0.000045	0.00005	mg/L	0.000045	81.42%
Ca 317.933†	146220.6	20.43	mg/L	0.033	20.43	mg/L	0.033	0.16%
Cd 228.802†	373.9	0.02127	mg/L	0.000348	0.02127	mg/L	0.000348	1.64%
Co 228.616†	42.5	0.00166	mg/L	0.000354	0.00166	mg/L	0.000354	21.32%
Cr 267.716†	37.7	0.00442	mg/L	0.001767	0.00442	mg/L	0.001767	40.03%
Cu 324.752†	5789.3	0.03935	mg/L	0.000284	0.03935	mg/L	0.000284	0.72%
Fe 273.955†	794.9	1.013	mg/L	0.0046	1.013	mg/L	0.0046	0.45%
K 766.490†	120101.6	98.70	mg/L	0.522	98.70	mg/L	0.522	0.53%
Mg 279.077†	23405.6	28.73	mg/L	0.192	28.73	mg/L	0.192	0.67%
Mn 257.610†	1310.6	0.04386	mg/L	0.000642	0.04386	mg/L	0.000642	1.46%
Mo 202.031†	280.1	0.01773	mg/L	0.000420	0.01773	mg/L	0.000420	2.37%
Na 589.592†	1414997.6	189.1	mg/L	1.11	189.1	mg/L	1.11	0.58%
Na 330.237†	3296.7	195.6	mg/L	0.97	195.6	mg/L	0.97	0.49%
Ni 231.604†	13.2	0.00370	mg/L	0.000735	0.00370	mg/L	0.000735	19.86%
Pb 220.353†	10.7	0.00162	mg/L	0.000639	0.00162	mg/L	0.000639	39.59%
Sb 206.836†	-2.7	-0.00133	mg/L	0.000498	-0.00133	mg/L	0.000498	37.45%
Se 196.026†	21.8	0.02361	mg/L	0.007067	0.02361	mg/L	0.007067	29.93%
Si 288.158†	628.3	0.5392	mg/L	0.00531	0.5392	mg/L	0.00531	0.99%
Sn 189.927†	-31.4	-0.00620	mg/L	0.000919	-0.00620	mg/L	0.000919	14.83%
Sr 421.552†	99870.4	0.2012	mg/L	0.00075	0.2012	mg/L	0.00075	0.37%
Ti 334.903†	159.1	0.00959	mg/L	0.000604	0.00959	mg/L	0.000604	6.30%
Tl 190.801†	3.2	0.00130	mg/L	0.000697	0.00130	mg/L	0.000697	53.71%
V 292.402†	187.9	0.00185	mg/L	0.000197	0.00185	mg/L	0.000197	10.63%
Zn 206.200†	2139.9	0.6726	mg/L	0.00433	0.6726	mg/L	0.00433	0.64%

Sequence No.: 64
Sample ID: 16J0187-02

Autosampler Location: 365
Date Collected: 10/28/2016 5:01:21 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0187-02

Analyte	Back Pressure	Flow
All	151.0 kPa	0.65 L/min

Mean Data: 16J0187-02

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1799542.5	102.8	%	0.52				0.50%
ScR 361.383	204556.7	106.3	%	0.42				0.39%
Ag 328.068†	65.4	0.00051	mg/L	0.000134	0.00051	mg/L	0.000134	26.49%
Al 308.215†	592.2	0.6352	mg/L	0.00905	0.6352	mg/L	0.00905	1.43%
As 188.979†	70.4	0.05696	mg/L	0.000849	0.05696	mg/L	0.000849	1.49%
B 249.677†	1109.6	0.2146	mg/L	0.00074	0.2146	mg/L	0.00074	0.34%
Ba 233.527†	20.8	0.00334	mg/L	0.000338	0.00334	mg/L	0.000338	10.12%
Be 313.042†	3.5	0.00001	mg/L	0.000027	0.00001	mg/L	0.000027	280.79%
Ca 317.933†	172532.3	24.10	mg/L	0.046	24.10	mg/L	0.046	0.19%
Cd 228.802†	521.5	0.02982	mg/L	0.000181	0.02982	mg/L	0.000181	0.61%
Co 228.616†	53.9	0.00207	mg/L	0.000163	0.00207	mg/L	0.000163	7.88%
Cr 267.716†	48.8	0.00544	mg/L	0.000492	0.00544	mg/L	0.000492	9.04%
Cu 324.752†	5878.8	0.04000	mg/L	0.000321	0.04000	mg/L	0.000321	0.80%
Fe 273.955†	1209.3	1.541	mg/L	0.0104	1.541	mg/L	0.0104	0.68%
K 766.490†	95815.1	78.74	mg/L	0.108	78.74	mg/L	0.108	0.14%
Mg 279.077†	33308.9	40.89	mg/L	0.070	40.89	mg/L	0.070	0.17%
Mn 257.610†	2799.2	0.09383	mg/L	0.000407	0.09383	mg/L	0.000407	0.43%
Mo 202.031†	149.8	0.00929	mg/L	0.000090	0.00929	mg/L	0.000090	0.97%
Na 589.592†	2176944.6	290.9	mg/L	1.97	290.9	mg/L	1.97	0.68%
Na 330.237†	5009.0	297.3	mg/L	0.96	297.3	mg/L	0.96	0.32%
Ni 231.604†	21.0	0.00587	mg/L	0.001487	0.00587	mg/L	0.001487	25.31%
Pb 220.353†	15.6	0.00247	mg/L	0.000388	0.00247	mg/L	0.000388	15.73%
Sb 206.836†	-0.8	-0.00057	mg/L	0.001136	-0.00057	mg/L	0.001136	198.12%
Se 196.026†	25.0	0.02703	mg/L	0.000769	0.02703	mg/L	0.000769	2.84%
Si 288.158†	732.9	0.6298	mg/L	0.00079	0.6298	mg/L	0.00079	0.13%
Sn 189.927†	-41.4	-0.00880	mg/L	0.001825	-0.00880	mg/L	0.001825	20.75%
Sr 421.552†	145823.0	0.2938	mg/L	0.00047	0.2938	mg/L	0.00047	0.16%
Ti 334.903†	483.7	0.03191	mg/L	0.000193	0.03191	mg/L	0.000193	0.60%
Tl 190.801†	5.0	0.00236	mg/L	0.002529	0.00236	mg/L	0.002529	107.17%
V 292.402†	398.5	0.00390	mg/L	0.000307	0.00390	mg/L	0.000307	7.86%
Zn 206.200†	2105.8	0.6619	mg/L	0.00529	0.6619	mg/L	0.00529	0.80%

Sequence No.: 65
Sample ID: 16J0187-03

Autosampler Location: 366
Date Collected: 10/28/2016 5:05:36 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0187-03

Analyte	Back Pressure	Flow
All	151.0 kPa	0.65 L/min

Mean Data: 16J0187-03

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1801983.7	102.9	%	0.18				0.17%
ScR 361.383	206019.4	107.0	%	0.53				0.49%
Ag 328.068†	94.3	0.00073	mg/L	0.000115	0.00073	mg/L	0.000115	15.72%
Al 308.215†	681.5	0.7311	mg/L	0.00722	0.7311	mg/L	0.00722	0.99%
As 188.979†	75.0	0.06102	mg/L	0.001222	0.06102	mg/L	0.001222	2.00%
B 249.677†	1131.0	0.2188	mg/L	0.00209	0.2188	mg/L	0.00209	0.96%
Ba 233.527†	22.7	0.00365	mg/L	0.000328	0.00365	mg/L	0.000328	9.00%
Be 313.042†	-3.1	-0.00001	mg/L	0.000011	-0.00001	mg/L	0.000011	99.97%
Ca 317.933†	156940.8	21.92	mg/L	0.079	21.92	mg/L	0.079	0.36%
Cd 228.802†	579.2	0.03313	mg/L	0.000257	0.03313	mg/L	0.000257	0.77%
Co 228.616†	56.3	0.00215	mg/L	0.000216	0.00215	mg/L	0.000216	10.03%
Cr 267.716†	68.6	0.00883	mg/L	0.001569	0.00883	mg/L	0.001569	17.77%
Cu 324.752†	6397.6	0.04360	mg/L	0.000076	0.04360	mg/L	0.000076	0.18%
Fe 273.955†	1288.7	1.643	mg/L	0.0034	1.643	mg/L	0.0034	0.20%
K 766.490†	98292.1	80.77	mg/L	0.233	80.77	mg/L	0.233	0.29%
Mg 279.077†	33729.3	41.41	mg/L	0.129	41.41	mg/L	0.129	0.31%
Mn 257.610†	2997.7	0.1005	mg/L	0.00042	0.1005	mg/L	0.00042	0.42%
Mo 202.031†	148.0	0.00921	mg/L	0.000220	0.00921	mg/L	0.000220	2.39%
Na 589.592†	2194330.0	293.2	mg/L	1.01	293.2	mg/L	1.01	0.35%
Na 330.237†	5059.3	300.3	mg/L	1.95	300.3	mg/L	1.95	0.65%
Ni 231.604†	19.8	0.00555	mg/L	0.000800	0.00555	mg/L	0.000800	14.42%
Pb 220.353†	16.4	0.00261	mg/L	0.000441	0.00261	mg/L	0.000441	16.91%
Sb 206.836†	2.8	0.00090	mg/L	0.001530	0.00090	mg/L	0.001530	169.50%
Se 196.026†	26.6	0.02867	mg/L	0.000483	0.02867	mg/L	0.000483	1.69%
Si 288.158†	820.9	0.7048	mg/L	0.01132	0.7048	mg/L	0.01132	1.61%
Sn 189.927†	-34.7	-0.00699	mg/L	0.000456	-0.00699	mg/L	0.000456	6.52%
Sr 421.552†	141702.4	0.2855	mg/L	0.00040	0.2855	mg/L	0.00040	0.14%
Ti 334.903†	562.7	0.03757	mg/L	0.000720	0.03757	mg/L	0.000720	1.92%
Tl 190.801†	0.9	-0.00034	mg/L	0.001804	-0.00034	mg/L	0.001804	534.70%
V 292.402†	451.4	0.00443	mg/L	0.000163	0.00443	mg/L	0.000163	3.67%
Zn 206.200†	2492.1	0.7833	mg/L	0.00310	0.7833	mg/L	0.00310	0.40%

Sequence No.: 66
Sample ID: 16J0187-04

Autosampler Location: 367
Date Collected: 10/28/2016 5:09:51 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0187-04

Analyte	Back Pressure	Flow
All	151.0 kPa	0.65 L/min

Mean Data: 16J0187-04

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1814402.5	103.7	%	0.29				0.28%
ScR 361.383	207001.1	107.5	%	0.71				0.66%
Ag 328.068†	66.1	0.00051	mg/L	0.000134	0.00051	mg/L	0.000134	26.15%
Al 308.215†	909.5	0.9757	mg/L	0.00892	0.9757	mg/L	0.00892	0.91%
As 188.979†	64.7	0.05324	mg/L	0.003388	0.05324	mg/L	0.003388	6.36%
B 249.677†	992.2	0.1919	mg/L	0.00248	0.1919	mg/L	0.00248	1.29%
Ba 233.527†	31.2	0.00503	mg/L	0.000735	0.00503	mg/L	0.000735	14.62%
Be 313.042†	-11.6	-0.00004	mg/L	0.000004	-0.00004	mg/L	0.000004	11.53%
Ca 317.933†	149146.7	20.84	mg/L	0.030	20.84	mg/L	0.030	0.14%
Cd 228.802†	408.7	0.02331	mg/L	0.000188	0.02331	mg/L	0.000188	0.81%
Co 228.616†	63.7	0.00242	mg/L	0.000249	0.00242	mg/L	0.000249	10.30%
Cr 267.716†	64.4	0.00862	mg/L	0.001044	0.00862	mg/L	0.001044	12.11%
Cu 324.752†	6236.4	0.04253	mg/L	0.000046	0.04253	mg/L	0.000046	0.11%
Fe 273.955†	1605.8	2.047	mg/L	0.0219	2.047	mg/L	0.0219	1.07%
K 766.490†	103163.1	84.78	mg/L	0.439	84.78	mg/L	0.439	0.52%
Mg 279.077†	28451.1	34.93	mg/L	0.102	34.93	mg/L	0.102	0.29%
Mn 257.610†	1725.3	0.05776	mg/L	0.000153	0.05776	mg/L	0.000153	0.26%
Mo 202.031†	132.8	0.00824	mg/L	0.000256	0.00824	mg/L	0.000256	3.10%
Na 589.592†	1832267.5	244.9	mg/L	1.50	244.9	mg/L	1.50	0.61%
Na 330.237†	4204.2	249.5	mg/L	0.94	249.5	mg/L	0.94	0.38%
Ni 231.604†	18.5	0.00518	mg/L	0.000964	0.00518	mg/L	0.000964	18.60%
Pb 220.353†	29.3	0.00463	mg/L	0.001883	0.00463	mg/L	0.001883	40.64%
Sb 206.836†	-0.6	-0.00048	mg/L	0.003250	-0.00048	mg/L	0.003250	682.59%
Se 196.026†	20.3	0.02185	mg/L	0.007004	0.02185	mg/L	0.007004	32.06%
Si 288.158†	971.6	0.8321	mg/L	0.00268	0.8321	mg/L	0.00268	0.32%
Sn 189.927†	-33.4	-0.00678	mg/L	0.001445	-0.00678	mg/L	0.001445	21.31%
Sr 421.552†	131499.0	0.2650	mg/L	0.00044	0.2650	mg/L	0.00044	0.17%
Ti 334.903†	811.6	0.05496	mg/L	0.000921	0.05496	mg/L	0.000921	1.68%
Tl 190.801†	-2.2	-0.00231	mg/L	0.002635	-0.00231	mg/L	0.002635	114.22%
V 292.402†	441.9	0.00430	mg/L	0.000115	0.00430	mg/L	0.000115	2.66%
Zn 206.200†	2269.7	0.7134	mg/L	0.00703	0.7134	mg/L	0.00703	0.99%

Sequence No.: 67
Sample ID: 16J0187-05

Autosampler Location: 368
Date Collected: 10/28/2016 5:14:06 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0187-05

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: 16J0187-05

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1807231.6	103.2	%	0.19				0.18%
ScR 361.383	208124.1	108.1	%	0.75				0.69%
Ag 328.068†	52.9	0.00041	mg/L	0.000183	0.00041	mg/L	0.000183	44.64%
Al 308.215†	844.1	0.9056	mg/L	0.00633	0.9056	mg/L	0.00633	0.70%
As 188.979†	74.0	0.05992	mg/L	0.000985	0.05992	mg/L	0.000985	1.64%
B 249.677†	1054.3	0.2039	mg/L	0.00253	0.2039	mg/L	0.00253	1.24%
Ba 233.527†	32.9	0.00533	mg/L	0.000400	0.00533	mg/L	0.000400	7.49%
Be 313.042†	-17.1	-0.00005	mg/L	0.000030	-0.00005	mg/L	0.000030	56.97%
Ca 317.933†	226215.1	31.60	mg/L	0.202	31.60	mg/L	0.202	0.64%
Cd 228.802†	381.0	0.02167	mg/L	0.000139	0.02167	mg/L	0.000139	0.64%
Co 228.616†	57.2	0.00218	mg/L	0.000071	0.00218	mg/L	0.000071	3.28%
Cr 267.716†	56.2	0.00685	mg/L	0.001226	0.00685	mg/L	0.001226	17.90%
Cu 324.752†	5911.9	0.04022	mg/L	0.000102	0.04022	mg/L	0.000102	0.25%
Fe 273.955†	1508.9	1.923	mg/L	0.0113	1.923	mg/L	0.0113	0.59%
K 766.490†	103993.4	85.46	mg/L	0.733	85.46	mg/L	0.733	0.86%
Mg 279.077†	32179.6	39.50	mg/L	0.328	39.50	mg/L	0.328	0.83%
Mn 257.610†	1864.6	0.06241	mg/L	0.000389	0.06241	mg/L	0.000389	0.62%
Mo 202.031†	155.4	0.00954	mg/L	0.000252	0.00954	mg/L	0.000252	2.64%
Na 589.592†	2070611.3	276.7	mg/L	3.41	276.7	mg/L	3.41	1.23%
Na 330.237†	4800.8	284.9	mg/L	2.44	284.9	mg/L	2.44	0.86%
Ni 231.604†	15.0	0.00420	mg/L	0.001703	0.00420	mg/L	0.001703	40.59%
Pb 220.353†	17.6	0.00284	mg/L	0.000452	0.00284	mg/L	0.000452	15.89%
Sb 206.836†	1.2	0.00023	mg/L	0.003506	0.00023	mg/L	0.003506	>999.9%
Se 196.026†	19.3	0.02080	mg/L	0.002836	0.02080	mg/L	0.002836	13.64%
Si 288.158†	803.9	0.6900	mg/L	0.00462	0.6900	mg/L	0.00462	0.67%
Sn 189.927†	-50.8	-0.01032	mg/L	0.001952	-0.01032	mg/L	0.001952	18.90%
Sr 421.552†	172966.2	0.3485	mg/L	0.00315	0.3485	mg/L	0.00315	0.90%
Ti 334.903†	685.9	0.04545	mg/L	0.001457	0.04545	mg/L	0.001457	3.21%
Tl 190.801†	4.5	0.00167	mg/L	0.002834	0.00167	mg/L	0.002834	169.41%
V 292.402†	447.4	0.00436	mg/L	0.000327	0.00436	mg/L	0.000327	7.49%
Zn 206.200†	2397.4	0.7536	mg/L	0.00571	0.7536	mg/L	0.00571	0.76%

Sequence No.: 68
Sample ID: 16J0187-06

Autosampler Location: 369
Date Collected: 10/28/2016 5:18:21 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: 16J0187-06

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: 16J0187-06

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1782080.0	101.8	%	0.53				0.52%
ScR 361.383	205401.3	106.7	%	0.83				0.78%
Ag 328.068†	-53.9	-0.00041	mg/L	0.000266	-0.00041	mg/L	0.000266	64.02%
Al 308.215†	687.5	0.7375	mg/L	0.00355	0.7375	mg/L	0.00355	0.48%
As 188.979†	92.0	0.06562	mg/L	0.000977	0.06562	mg/L	0.000977	1.49%
B 249.677†	1075.8	0.2081	mg/L	0.00266	0.2081	mg/L	0.00266	1.28%
Ba 233.527†	136.2	0.02278	mg/L	0.000880	0.02278	mg/L	0.000880	3.86%
Be 313.042†	-6.4	-0.00002	mg/L	0.000021	-0.00002	mg/L	0.000021	104.13%
Ca 317.933†	1310050.2	183.0	mg/L	1.06	183.0	mg/L	1.06	0.58%
Cd 228.802†	510.9	0.02910	mg/L	0.000364	0.02910	mg/L	0.000364	1.25%
Co 228.616†	60.2	0.00229	mg/L	0.000123	0.00229	mg/L	0.000123	5.38%
Cr 267.716†	74.2	0.00992	mg/L	0.000407	0.00992	mg/L	0.000407	4.10%
Cu 324.752†	6923.1	0.04721	mg/L	0.000544	0.04721	mg/L	0.000544	1.15%
Fe 273.955†	1271.8	1.621	mg/L	0.0102	1.621	mg/L	0.0102	0.63%
K 766.490†	107732.7	88.53	mg/L	1.470	88.53	mg/L	1.470	1.66%
Mg 279.077†	32439.9	39.82	mg/L	0.578	39.82	mg/L	0.578	1.45%
Mn 257.610†	2774.7	0.09302	mg/L	0.000687	0.09302	mg/L	0.000687	0.74%
Mo 202.031†	203.0	0.01038	mg/L	0.000206	0.01038	mg/L	0.000206	1.99%
Na 589.592†	2089451.2	279.2	mg/L	2.00	279.2	mg/L	2.00	0.72%
Na 330.237†	4929.5	292.6	mg/L	1.80	292.6	mg/L	1.80	0.61%
Ni 231.604†	26.2	0.00734	mg/L	0.000849	0.00734	mg/L	0.000849	11.58%
Pb 220.353†	13.3	0.00215	mg/L	0.001337	0.00215	mg/L	0.001337	62.29%
Sb 206.836†	11.2	0.00410	mg/L	0.002381	0.00410	mg/L	0.002381	58.07%
Se 196.026†	37.4	0.04043	mg/L	0.004141	0.04043	mg/L	0.004141	10.24%
Si 288.158†	770.0	0.6611	mg/L	0.00557	0.6611	mg/L	0.00557	0.84%
Sn 189.927†	-123.0	-0.00083	mg/L	0.001002	-0.00083	mg/L	0.001002	120.58%
Sr 421.552†	935864.8	1.886	mg/L	0.0136	1.886	mg/L	0.0136	0.72%
Ti 334.903†	733.1	0.03785	mg/L	0.000204	0.03785	mg/L	0.000204	0.54%
Tl 190.801†	21.0	0.00517	mg/L	0.002307	0.00517	mg/L	0.002307	44.64%
V 292.402†	369.3	0.00362	mg/L	0.000261	0.00362	mg/L	0.000261	7.19%
Zn 206.200†	2290.9	0.7201	mg/L	0.00619	0.7201	mg/L	0.00619	0.86%

Sequence No.: 69
Sample ID: SEQ-CCV9

Autosampler Location: 7
Date Collected: 10/28/2016 5:22:37 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCV9

Analyte	Back Pressure	Flow
All	151.0 kPa	0.65 L/min

Mean Data: SEQ-CCV9

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1884638.1	107.7	%	0.38				0.35%
ScR 361.383	204212.2	106.1	%	0.62				0.58%
Ag 328.068†	135740.9	1.048	mg/L	0.0087	1.048	mg/L	0.0087	0.83%
Al 308.215†	2005.5	2.119	mg/L	0.0241	2.119	mg/L	0.0241	1.14%
As 188.979†	2516.9	2.079	mg/L	0.0100	2.079	mg/L	0.0100	0.48%
B 249.677†	5347.0	1.033	mg/L	0.0092	1.033	mg/L	0.0092	0.89%
Ba 233.527†	6289.9	1.060	mg/L	0.0085	1.060	mg/L	0.0085	0.80%
Be 313.042†	339657.8	1.030	mg/L	0.0055	1.030	mg/L	0.0055	0.53%
Ca 317.933†	15612.9	2.181	mg/L	0.0170	2.181	mg/L	0.0170	0.78%
Cd 228.802†	17575.9	1.005	mg/L	0.0017	1.005	mg/L	0.0017	0.17%
Co 228.616†	25700.9	1.015	mg/L	0.0099	1.015	mg/L	0.0099	0.98%
Cr 267.716†	6107.7	1.058	mg/L	0.0081	1.058	mg/L	0.0081	0.77%
Cu 324.752†	143147.0	0.9950	mg/L	0.00646	0.9950	mg/L	0.00646	0.65%
Fe 273.955†	1659.3	2.107	mg/L	0.0203	2.107	mg/L	0.0203	0.96%
K 766.490†	26491.3	21.77	mg/L	0.143	21.77	mg/L	0.143	0.66%
Mg 279.077†	1745.6	2.151	mg/L	0.0159	2.151	mg/L	0.0159	0.74%
Mn 257.610†	28653.5	0.9645	mg/L	0.00409	0.9645	mg/L	0.00409	0.42%
Mo 202.031†	15222.2	0.9800	mg/L	0.00680	0.9800	mg/L	0.00680	0.69%
Na 589.592†	389850.3	52.10	mg/L	0.154	52.10	mg/L	0.154	0.30%
Na 330.237†	932.0	55.22	mg/L	0.264	55.22	mg/L	0.264	0.48%
Ni 231.604†	3799.9	1.063	mg/L	0.0088	1.063	mg/L	0.0088	0.83%
Pb 220.353†	13371.7	2.021	mg/L	0.0129	2.021	mg/L	0.0129	0.64%
Sb 206.836†	5156.1	2.136	mg/L	0.0134	2.136	mg/L	0.0134	0.63%
Se 196.026†	1936.1	2.095	mg/L	0.0100	2.095	mg/L	0.0100	0.48%
Si 288.158†	2496.8	2.124	mg/L	0.0217	2.124	mg/L	0.0217	1.02%
Sn 189.927†	2934.7	1.015	mg/L	0.0087	1.015	mg/L	0.0087	0.86%
Sr 421.552†	517871.1	1.044	mg/L	0.0039	1.044	mg/L	0.0039	0.37%
Ti 334.903†	14647.4	1.018	mg/L	0.0038	1.018	mg/L	0.0038	0.38%
Tl 190.801†	3020.2	2.058	mg/L	0.0125	2.058	mg/L	0.0125	0.61%
V 292.402†	104035.1	1.029	mg/L	0.0088	1.029	mg/L	0.0088	0.85%
Zn 206.200†	3412.6	1.073	mg/L	0.0097	1.073	mg/L	0.0097	0.91%

Sequence No.: 70
Sample ID: SEQ-CCB9

Autosampler Location: 1
Date Collected: 10/28/2016 5:26:38 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: SEQ-CCB9

Analyte	Back Pressure	Flow
All	151.0 kPa	0.65 L/min

Mean Data: SEQ-CCB9

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1897709.6	108.4	%	0.89				0.82%
ScR 361.383	206772.5	107.4	%	0.82				0.76%
Ag 328.068†	4.0	0.00003	mg/L	0.000265	0.00003	mg/L	0.000265	866.30%
Al 308.215†	5.4	0.00581	mg/L	0.001228	0.00581	mg/L	0.001228	21.12%
As 188.979†	0.9	0.00070	mg/L	0.001436	0.00070	mg/L	0.001436	206.26%
B 249.677†	9.6	0.00185	mg/L	0.000845	0.00185	mg/L	0.000845	45.57%
Ba 233.527†	8.5	0.00143	mg/L	0.000260	0.00143	mg/L	0.000260	18.23%
Be 313.042†	-27.1	-0.00008	mg/L	0.000047	-0.00008	mg/L	0.000047	56.98%
Ca 317.933†	28.9	0.00404	mg/L	0.001164	0.00404	mg/L	0.001164	28.79%
Cd 228.802†	1.3	0.00007	mg/L	0.000206	0.00007	mg/L	0.000206	281.95%
Co 228.616†	2.4	0.00010	mg/L	0.000073	0.00010	mg/L	0.000073	75.41%
Cr 267.716†	1.3	0.00022	mg/L	0.000289	0.00022	mg/L	0.000289	132.20%
Cu 324.752†	26.8	0.00019	mg/L	0.000050	0.00019	mg/L	0.000050	26.72%
Fe 273.955†	7.0	0.00892	mg/L	0.000879	0.00892	mg/L	0.000879	9.85%
K 766.490†	97.9	0.08046	mg/L	0.015223	0.08046	mg/L	0.015223	18.92%
Mg 279.077†	7.8	0.00954	mg/L	0.007707	0.00954	mg/L	0.007707	80.78%
Mn 257.610†	-0.5	-0.00002	mg/L	0.000167	-0.00002	mg/L	0.000167	955.40%
Mo 202.031†	11.1	0.00072	mg/L	0.000346	0.00072	mg/L	0.000346	48.22%
Na 589.592†	461.8	0.06171	mg/L	0.004627	0.06171	mg/L	0.004627	7.50%
Na 330.237†	12.5	0.7438	mg/L	0.06221	0.7438	mg/L	0.06221	8.36%
Ni 231.604†	1.4	0.00038	mg/L	0.001300	0.00038	mg/L	0.001300	342.98%
Pb 220.353†	1.0	0.00016	mg/L	0.001434	0.00016	mg/L	0.001434	918.63%
Sb 206.836†	-5.9	-0.00247	mg/L	0.001712	-0.00247	mg/L	0.001712	69.31%
Se 196.026†	1.9	0.00204	mg/L	0.005126	0.00204	mg/L	0.005126	251.25%
Si 288.158†	-3.9	-0.00334	mg/L	0.003908	-0.00334	mg/L	0.003908	116.97%
Sn 189.927†	-0.9	-0.00030	mg/L	0.000311	-0.00030	mg/L	0.000311	102.29%
Sr 421.552†	-17.3	-0.00003	mg/L	0.000041	-0.00003	mg/L	0.000041	116.89%
Ti 334.903†	-0.2	-0.00001	mg/L	0.000736	-0.00001	mg/L	0.000736	>999.9%
Tl 190.801†	2.0	0.00138	mg/L	0.001546	0.00138	mg/L	0.001546	111.87%
V 292.402†	-0.6	-0.00000	mg/L	0.000077	-0.00000	mg/L	0.000077	>999.9%
Zn 206.200†	0.1	0.00004	mg/L	0.001193	0.00004	mg/L	0.001193	>999.9%

Sequence No.: 71
Sample ID: RINSE

Autosampler Location: 9
Date Collected: 10/28/2016 5:30:38 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: RINSE

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: RINSE

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1884625.6	107.7	%	0.31				0.29%
ScR 361.383	207430.8	107.8	%	0.84				0.78%
Ag 328.068†	4.8	0.00004	mg/L	0.000184	0.00004	mg/L	0.000184	498.98%
Al 308.215†	12.3	0.01323	mg/L	0.007781	0.01323	mg/L	0.007781	58.83%
As 188.979†	1.4	0.00114	mg/L	0.001235	0.00114	mg/L	0.001235	108.76%
B 249.677†	-1.6	-0.00032	mg/L	0.000968	-0.00032	mg/L	0.000968	303.76%
Ba 233.527†	5.3	0.00089	mg/L	0.000306	0.00089	mg/L	0.000306	34.33%
Be 313.042†	-45.3	-0.00014	mg/L	0.000012	-0.00014	mg/L	0.000012	8.61%
Ca 317.933†	24.3	0.00340	mg/L	0.001340	0.00340	mg/L	0.001340	39.39%
Cd 228.802†	1.8	0.00010	mg/L	0.000234	0.00010	mg/L	0.000234	242.43%
Co 228.616†	1.8	0.00007	mg/L	0.000131	0.00007	mg/L	0.000131	177.88%
Cr 267.716†	1.5	0.00025	mg/L	0.000637	0.00025	mg/L	0.000637	251.11%
Cu 324.752†	29.2	0.00020	mg/L	0.000105	0.00020	mg/L	0.000105	51.96%
Fe 273.955†	3.8	0.00483	mg/L	0.001585	0.00483	mg/L	0.001585	32.82%
K 766.490†	72.1	0.05926	mg/L	0.028178	0.05926	mg/L	0.028178	47.55%
Mg 279.077†	5.2	0.00632	mg/L	0.002532	0.00632	mg/L	0.002532	40.05%
Mn 257.610†	2.3	0.00008	mg/L	0.000090	0.00008	mg/L	0.000090	118.68%
Mo 202.031†	4.8	0.00031	mg/L	0.000280	0.00031	mg/L	0.000280	90.72%
Na 589.592†	272.3	0.03639	mg/L	0.003290	0.03639	mg/L	0.003290	9.04%
Na 330.237†	7.9	0.4705	mg/L	0.72012	0.4705	mg/L	0.72012	153.06%
Ni 231.604†	-1.5	-0.00041	mg/L	0.000246	-0.00041	mg/L	0.000246	59.55%
Pb 220.353†	1.3	0.00020	mg/L	0.000785	0.00020	mg/L	0.000785	402.13%
Sb 206.836†	-1.0	-0.00043	mg/L	0.002034	-0.00043	mg/L	0.002034	477.41%
Se 196.026†	2.4	0.00263	mg/L	0.004245	0.00263	mg/L	0.004245	161.63%
Si 288.158†	-5.5	-0.00465	mg/L	0.002850	-0.00465	mg/L	0.002850	61.29%
Sn 189.927†	-4.4	-0.00151	mg/L	0.000677	-0.00151	mg/L	0.000677	44.92%
Sr 421.552†	-17.1	-0.00003	mg/L	0.000040	-0.00003	mg/L	0.000040	116.94%
Ti 334.903†	-8.4	-0.00058	mg/L	0.000896	-0.00058	mg/L	0.000896	153.88%
Tl 190.801†	-5.2	-0.00356	mg/L	0.001678	-0.00356	mg/L	0.001678	47.14%
V 292.402†	3.2	0.00003	mg/L	0.000152	0.00003	mg/L	0.000152	465.29%
Zn 206.200†	0.8	0.00024	mg/L	0.000523	0.00024	mg/L	0.000523	214.02%

Sequence No.: 72
Sample ID: RINSE2

Autosampler Location: 9
Date Collected: 10/28/2016 5:34:37 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: RINSE2

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: RINSE2

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1901106.5	108.6	%	0.43				0.39%
ScR 361.383	208035.7	108.1	%	0.32				0.30%
Ag 328.068†	25.7	0.00020	mg/L	0.000372	0.00020	mg/L	0.000372	187.14%
Al 308.215†	10.1	0.01084	mg/L	0.003949	0.01084	mg/L	0.003949	36.44%
As 188.979†	4.1	0.00336	mg/L	0.003870	0.00336	mg/L	0.003870	115.35%
B 249.677†	-0.9	-0.00018	mg/L	0.000364	-0.00018	mg/L	0.000364	203.66%
Ba 233.527†	3.2	0.00054	mg/L	0.000069	0.00054	mg/L	0.000069	12.81%
Be 313.042†	-38.4	-0.00012	mg/L	0.000030	-0.00012	mg/L	0.000030	26.06%
Ca 317.933†	33.2	0.00463	mg/L	0.001431	0.00463	mg/L	0.001431	30.88%
Cd 228.802†	2.8	0.00014	mg/L	0.000093	0.00014	mg/L	0.000093	65.48%
Co 228.616†	0.7	0.00003	mg/L	0.000112	0.00003	mg/L	0.000112	402.11%
Cr 267.716†	-1.6	-0.00028	mg/L	0.000385	-0.00028	mg/L	0.000385	137.52%
Cu 324.752†	14.5	0.00010	mg/L	0.000052	0.00010	mg/L	0.000052	51.91%
Fe 273.955†	5.5	0.00696	mg/L	0.003118	0.00696	mg/L	0.003118	44.77%
K 766.490†	13.0	0.01070	mg/L	0.011896	0.01070	mg/L	0.011896	111.15%
Mg 279.077†	0.3	0.00036	mg/L	0.012074	0.00036	mg/L	0.012074	>999.9%
Mn 257.610†	1.9	0.00006	mg/L	0.000133	0.00006	mg/L	0.000133	211.44%
Mo 202.031†	-1.5	-0.00009	mg/L	0.000173	-0.00009	mg/L	0.000173	182.69%
Na 589.592†	204.5	0.02732	mg/L	0.003940	0.02732	mg/L	0.003940	14.42%
Na 330.237†	15.6	0.9258	mg/L	0.39457	0.9258	mg/L	0.39457	42.62%
Ni 231.604†	-1.7	-0.00046	mg/L	0.001167	-0.00046	mg/L	0.001167	250.97%
Pb 220.353†	3.6	0.00055	mg/L	0.000991	0.00055	mg/L	0.000991	180.79%
Sb 206.836†	-4.6	-0.00191	mg/L	0.001597	-0.00191	mg/L	0.001597	83.82%
Se 196.026†	4.1	0.00447	mg/L	0.002305	0.00447	mg/L	0.002305	51.53%
Si 288.158†	-7.7	-0.00657	mg/L	0.000885	-0.00657	mg/L	0.000885	13.46%
Sn 189.927†	-2.7	-0.00094	mg/L	0.000384	-0.00094	mg/L	0.000384	40.90%
Sr 421.552†	-18.8	-0.00004	mg/L	0.000018	-0.00004	mg/L	0.000018	48.31%
Ti 334.903†	-13.4	-0.00093	mg/L	0.001352	-0.00093	mg/L	0.001352	144.85%
Tl 190.801†	2.2	0.00152	mg/L	0.001267	0.00152	mg/L	0.001267	83.14%
V 292.402†	-5.2	-0.00005	mg/L	0.000038	-0.00005	mg/L	0.000038	73.75%
Zn 206.200†	0.2	0.00005	mg/L	0.000325	0.00005	mg/L	0.000325	641.17%

Sequence No.: 73
Sample ID: RINSE3

Autosampler Location: 9
Date Collected: 10/28/2016 5:38:37 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: RINSE3

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: RINSE3

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	1889685.4	108.0	%	0.50				0.46%
ScR 361.383	208505.9	108.3	%	0.11				0.11%
Ag 328.068†	37.6	0.00029	mg/L	0.000134	0.00029	mg/L	0.000134	46.28%
Al 308.215†	5.8	0.00617	mg/L	0.002718	0.00617	mg/L	0.002718	44.02%
As 188.979†	-1.2	-0.00104	mg/L	0.000197	-0.00104	mg/L	0.000197	18.86%
B 249.677†	-9.6	-0.00187	mg/L	0.000335	-0.00187	mg/L	0.000335	17.95%
Ba 233.527†	2.7	0.00045	mg/L	0.000433	0.00045	mg/L	0.000433	95.79%
Be 313.042†	-54.6	-0.00017	mg/L	0.000012	-0.00017	mg/L	0.000012	7.38%
Ca 317.933†	39.1	0.00546	mg/L	0.000130	0.00546	mg/L	0.000130	2.37%
Cd 228.802†	4.3	0.00026	mg/L	0.000222	0.00026	mg/L	0.000222	86.51%
Co 228.616†	2.5	0.00010	mg/L	0.000080	0.00010	mg/L	0.000080	79.45%
Cr 267.716†	4.3	0.00074	mg/L	0.000422	0.00074	mg/L	0.000422	56.76%
Cu 324.752†	14.8	0.00010	mg/L	0.000077	0.00010	mg/L	0.000077	74.50%
Fe 273.955†	4.8	0.00611	mg/L	0.003264	0.00611	mg/L	0.003264	53.38%
K 766.490†	47.2	0.03875	mg/L	0.011648	0.03875	mg/L	0.011648	30.06%
Mg 279.077†	12.0	0.01476	mg/L	0.004973	0.01476	mg/L	0.004973	33.70%
Mn 257.610†	3.1	0.00010	mg/L	0.000038	0.00010	mg/L	0.000038	36.29%
Mo 202.031†	2.1	0.00013	mg/L	0.000144	0.00013	mg/L	0.000144	108.82%
Na 589.592†	161.0	0.02151	mg/L	0.002045	0.02151	mg/L	0.002045	9.51%
Na 330.237†	1.2	0.07057	mg/L	0.404878	0.07057	mg/L	0.404878	573.71%
Ni 231.604†	-2.6	-0.00074	mg/L	0.001203	-0.00074	mg/L	0.001203	163.60%
Pb 220.353†	-6.8	-0.00102	mg/L	0.001239	-0.00102	mg/L	0.001239	121.01%
Sb 206.836†	0.7	0.00027	mg/L	0.001564	0.00027	mg/L	0.001564	583.77%
Se 196.026†	1.9	0.00202	mg/L	0.002034	0.00202	mg/L	0.002034	100.56%
Si 288.158†	-2.6	-0.00222	mg/L	0.004488	-0.00222	mg/L	0.004488	201.84%
Sn 189.927†	-2.7	-0.00095	mg/L	0.000520	-0.00095	mg/L	0.000520	54.81%
Sr 421.552†	-8.6	-0.00002	mg/L	0.000014	-0.00002	mg/L	0.000014	82.24%
Ti 334.903†	-12.2	-0.00085	mg/L	0.000758	-0.00085	mg/L	0.000758	89.50%
Tl 190.801†	-1.8	-0.00120	mg/L	0.001447	-0.00120	mg/L	0.001447	120.31%
V 292.402†	1.3	0.00002	mg/L	0.000250	0.00002	mg/L	0.000250	>999.9%
Zn 206.200†	0.5	0.00016	mg/L	0.000261	0.00016	mg/L	0.000261	160.32%

Sequence No.: 74
Sample ID: RINSE4

Autosampler Location: 9
Date Collected: 10/28/2016 5:42:37 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: RINSE4

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: RINSE4

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	1901949.7	108.7	%	2.21				2.03%
ScR 361.383	206711.4	107.4	%	0.59				0.55%
Ag 328.068†	37.3	0.00029	mg/L	0.000046	0.00029	mg/L	0.000046	16.17%
Al 308.215†	4.7	0.00501	mg/L	0.004999	0.00501	mg/L	0.004999	99.72%
As 188.979†	2.3	0.00184	mg/L	0.000929	0.00184	mg/L	0.000929	50.51%
B 249.677†	-5.6	-0.00108	mg/L	0.000847	-0.00108	mg/L	0.000847	78.32%
Ba 233.527†	3.4	0.00057	mg/L	0.000732	0.00057	mg/L	0.000732	128.74%
Be 313.042†	-42.8	-0.00013	mg/L	0.000038	-0.00013	mg/L	0.000038	29.08%
Ca 317.933†	25.5	0.00356	mg/L	0.003323	0.00356	mg/L	0.003323	93.23%
Cd 228.802†	-46.3	-0.00269	mg/L	0.004209	-0.00269	mg/L	0.004209	156.23%
Co 228.616†	0.7	0.00003	mg/L	0.000136	0.00003	mg/L	0.000136	436.51%
Cr 267.716†	-1.1	-0.00019	mg/L	0.000860	-0.00019	mg/L	0.000860	454.53%
Cu 324.752†	6.1	0.00004	mg/L	0.000228	0.00004	mg/L	0.000228	536.39%
Fe 273.955†	4.5	0.00573	mg/L	0.002901	0.00573	mg/L	0.002901	50.66%
K 766.490†	58.5	0.04811	mg/L	0.013467	0.04811	mg/L	0.013467	27.99%
Mg 279.077†	0.0	0.00001	mg/L	0.005165	0.00001	mg/L	0.005165	>999.9%
Mn 257.610†	4.4	0.00015	mg/L	0.000093	0.00015	mg/L	0.000093	63.46%
Mo 202.031†	-1.1	-0.00007	mg/L	0.000083	-0.00007	mg/L	0.000083	116.58%
Na 589.592†	88.0	0.01176	mg/L	0.000702	0.01176	mg/L	0.000702	5.97%
Na 330.237†	-1.4	-0.08158	mg/L	0.274585	-0.08158	mg/L	0.274585	336.58%
Ni 231.604†	-5.7	-0.00160	mg/L	0.000384	-0.00160	mg/L	0.000384	23.96%
Pb 220.353†	-1.3	-0.00020	mg/L	0.001322	-0.00020	mg/L	0.001322	656.49%
Sb 206.836†	-4.6	-0.00193	mg/L	0.001363	-0.00193	mg/L	0.001363	70.54%
Se 196.026†	-1.2	-0.00133	mg/L	0.006766	-0.00133	mg/L	0.006766	507.86%
Si 288.158†	-4.9	-0.00413	mg/L	0.004501	-0.00413	mg/L	0.004501	108.89%
Sn 189.927†	-2.9	-0.00099	mg/L	0.000132	-0.00099	mg/L	0.000132	13.38%
Sr 421.552†	-28.3	-0.00006	mg/L	0.000109	-0.00006	mg/L	0.000109	191.55%
Ti 334.903†	-24.2	-0.00169	mg/L	0.001212	-0.00169	mg/L	0.001212	71.91%
Tl 190.801†	0.8	0.00058	mg/L	0.000784	0.00058	mg/L	0.000784	135.68%
V 292.402†	-7.6	-0.00007	mg/L	0.000307	-0.00007	mg/L	0.000307	412.93%
Zn 206.200†	1.9	0.00060	mg/L	0.000417	0.00060	mg/L	0.000417	69.80%

Sequence No.: 75
Sample ID: DI

Autosampler Location: 10
Date Collected: 10/28/2016 5:46:37 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: DI

Analyte	Back Pressure	Flow
All	151.0 kPa	0.65 L/min

Mean Data: DI

Analyte	Mean Corrected Intensity	Calib. Conc.	Calib. Units	Std.Dev.	Sample Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	13143.9	0.7509	%	0.00156				0.21%
ScR 361.383	-243.4	-0.1265	%	0.00388				3.07%
Ag 328.068†	-10525.9	-0.08116	mg/L	0.020510	-0.08116	mg/L	0.020510	25.27%
Al 308.215†	57189.8	61.40	mg/L	1.871	61.40	mg/L	1.871	3.05%
As 188.979†	-105.6	-0.6992	mg/L	0.13016	-0.6992	mg/L	0.13016	18.62%
B 249.677†	-52677.8	-10.18	mg/L	0.944	-10.18	mg/L	0.944	9.27%
Ba 233.527†	14874.2	2.496	mg/L	0.2609	2.496	mg/L	0.2609	10.45%
Be 313.042†	-774363.7	-2.349	mg/L	0.0397	-2.349	mg/L	0.0397	1.69%
Ca 317.933†	236769.4	33.08	mg/L	1.365	33.08	mg/L	1.365	4.13%
Cd 228.802†	7275.8	0.4294	mg/L	0.01886	0.4294	mg/L	0.01886	4.39%
Co 228.616†	-11497.7	-0.4217	mg/L	0.01410	-0.4217	mg/L	0.01410	3.34%
Cr 267.716†	34959.5	6.058	mg/L	0.4940	6.058	mg/L	0.4940	8.16%
Cu 324.752†	108683.8	0.7650	mg/L	0.00457	0.7650	mg/L	0.00457	0.60%
Fe 273.955†	77583.6	98.90	mg/L	3.742	98.90	mg/L	3.742	3.78%
K 766.490†	-353497.7	-290.5	mg/L	10.51	-290.5	mg/L	10.51	3.62%
Mg 279.077†	98562.6	120.9	mg/L	3.80	120.9	mg/L	3.80	3.14%
Mn 257.610†	130915.0	4.403	mg/L	0.1370	4.403	mg/L	0.1370	3.11%
Mo 202.031†	6893.7	0.4434	mg/L	0.01958	0.4434	mg/L	0.01958	4.42%
Na 589.592†	-367930.7	-49.17	mg/L	6.996	-49.17	mg/L	6.996	14.23%
Na 330.237†	40493.0	2399	mg/L	337.72	2399	mg/L	337.72	14.08%
Ni 231.604†	32736.0	9.159	mg/L	1.0444	9.159	mg/L	1.0444	11.40%
Pb 220.353†	2093.8	0.3415	mg/L	0.13352	0.3415	mg/L	0.13352	39.10%
Sb 206.836†	7145.5	2.851	mg/L	0.3298	2.851	mg/L	0.3298	11.57%
Se 196.026†	-2102.2	-2.283	mg/L	0.1479	-2.283	mg/L	0.1479	6.48%
Si 288.158†	-43104.1	-36.56	mg/L	5.399	-36.56	mg/L	5.399	14.77%
Sn 189.927†	-1138.1	-0.3883	mg/L	0.13623	-0.3883	mg/L	0.13623	35.08%
Sr 421.552†	-292307.0	-0.5890	mg/L	0.02552	-0.5890	mg/L	0.02552	4.33%
Ti 334.903†	-270880.6	-18.85	mg/L	0.684	-18.85	mg/L	0.684	3.63%
Tl 190.801†	-5241.3	-3.585	mg/L	0.4636	-3.585	mg/L	0.4636	12.93%
V 292.402†	21430.0	0.2469	mg/L	0.00627	0.2469	mg/L	0.00627	2.54%
Zn 206.200†	15990.9	5.019	mg/L	1.0856	5.019	mg/L	1.0856	21.63%

Sequence No.: 76
Sample ID: DI2

Autosampler Location: 10
Date Collected: 10/28/2016 5:51:05 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: DI2

Analyte	Back Pressure	Flow
All	150.0 kPa	0.65 L/min

Mean Data: DI2

Analyte	Mean Corrected Intensity	Conc.	Calib. Units	Std.Dev.	Conc.	Sample Units	Std.Dev.	RSD
ScA 357.253	13039.7	0.7449	%	0.00181				0.24%
ScR 361.383	-247.2	-0.1284	%	0.00260				2.02%
Ag 328.068†	-7996.9	-0.06165	mg/L	0.007643	-0.06165	mg/L	0.007643	12.40%
Al 308.215†	61135.9	65.63	mg/L	2.964	65.63	mg/L	2.964	4.52%
As 188.979†	59.4	-0.5316	mg/L	0.47840	-0.5316	mg/L	0.47840	89.99%
B 249.677†	-52149.9	-10.08	mg/L	0.861	-10.08	mg/L	0.861	8.54%
Ba 233.527†	14498.9	2.433	mg/L	1.0599	2.433	mg/L	1.0599	43.57%
Be 313.042†	-771852.4	-2.342	mg/L	0.0254	-2.342	mg/L	0.0254	1.09%
Ca 317.933†	230552.4	32.21	mg/L	0.918	32.21	mg/L	0.918	2.85%
Cd 228.802†	7035.0	0.4143	mg/L	0.01347	0.4143	mg/L	0.01347	3.25%
Co 228.616†	-11102.8	-0.4079	mg/L	0.00925	-0.4079	mg/L	0.00925	2.27%
Cr 267.716†	33132.0	5.741	mg/L	0.1974	5.741	mg/L	0.1974	3.44%
Cu 324.752†	109044.9	0.7671	mg/L	0.00306	0.7671	mg/L	0.00306	0.40%
Fe 273.955†	75826.8	96.66	mg/L	4.480	96.66	mg/L	4.480	4.63%
K 766.490†	-357601.8	-293.9	mg/L	20.04	-293.9	mg/L	20.04	6.82%
Mg 279.077†	97869.6	120.1	mg/L	5.64	120.1	mg/L	5.64	4.70%
Mn 257.610†	126131.5	4.242	mg/L	0.0242	4.242	mg/L	0.0242	0.57%
Mo 202.031†	6622.9	0.4259	mg/L	0.02559	0.4259	mg/L	0.02559	6.01%
Na 589.592†	-354360.1	-47.36	mg/L	6.720	-47.36	mg/L	6.720	14.19%
Na 330.237†	43203.9	2561	mg/L	440.23	2561	mg/L	440.23	17.19%
Ni 231.604†	31393.2	8.783	mg/L	0.3537	8.783	mg/L	0.3537	4.03%
Pb 220.353†	3067.8	0.4891	mg/L	0.14521	0.4891	mg/L	0.14521	29.69%
Sb 206.836†	8018.3	3.218	mg/L	0.3685	3.218	mg/L	0.3685	11.45%
Se 196.026†	-2859.9	-3.103	mg/L	0.3883	-3.103	mg/L	0.3883	12.51%
Si 288.158†	-42663.2	-36.19	mg/L	1.544	-36.19	mg/L	1.544	4.27%
Sn 189.927†	-1292.5	-0.4414	mg/L	0.12283	-0.4414	mg/L	0.12283	27.83%
Sr 421.552†	-291570.7	-0.5875	mg/L	0.02876	-0.5875	mg/L	0.02876	4.89%
Ti 334.903†	-256110.6	-17.82	mg/L	1.062	-17.82	mg/L	1.062	5.96%
Tl 190.801†	-5189.4	-3.549	mg/L	0.1271	-3.549	mg/L	0.1271	3.58%
V 292.402†	21405.1	0.2446	mg/L	0.00137	0.2446	mg/L	0.00137	0.56%
Zn 206.200†	14226.9	4.465	mg/L	0.4950	4.465	mg/L	0.4950	11.09%

Sequence No.: 77
Sample ID: DI3

Autosampler Location: 10
Date Collected: 10/28/2016 5:55:34 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: DI3

Analyte	Back Pressure	Flow
All	151.0 kPa	0.65 L/min

Mean Data: DI3

Analyte	Mean Corrected Intensity	Calib. Conc.	Units	Std.Dev.	Sample Conc.	Units	Std.Dev.	RSD
ScA 357.253	13027.0	0.7442	%	0.00075				0.10%
ScR 361.383	-265.3	-0.1378	%	0.00319				2.32%
Ag 328.068†	-11902.9	-0.09179	mg/L	0.017397	-0.09179	mg/L	0.017397	18.95%
Al 308.215†	57778.2	62.03	mg/L	2.629	62.03	mg/L	2.629	4.24%
As 188.979†	147.9	-0.4175	mg/L	0.44513	-0.4175	mg/L	0.44513	106.63%
B 249.677†	-45735.3	-8.842	mg/L	0.6906	-8.842	mg/L	0.6906	7.81%
Ba 233.527†	15014.7	2.520	mg/L	0.7317	2.520	mg/L	0.7317	29.04%
Be 313.042†	-717072.6	-2.175	mg/L	0.0593	-2.175	mg/L	0.0593	2.73%
Ca 317.933†	221190.6	30.90	mg/L	1.630	30.90	mg/L	1.630	5.28%
Cd 228.802†	7217.6	0.4251	mg/L	0.01724	0.4251	mg/L	0.01724	4.06%
Co 228.616†	-11330.2	-0.4194	mg/L	0.02910	-0.4194	mg/L	0.02910	6.94%
Cr 267.716†	33297.8	5.770	mg/L	0.1563	5.770	mg/L	0.1563	2.71%
Cu 324.752†	108172.2	0.7606	mg/L	0.00065	0.7606	mg/L	0.00065	0.09%
Fe 273.955†	71900.6	91.66	mg/L	2.194	91.66	mg/L	2.194	2.39%
K 766.490†	-320768.6	-263.6	mg/L	3.94	-263.6	mg/L	3.94	1.49%
Mg 279.077†	94479.2	115.9	mg/L	10.22	115.9	mg/L	10.22	8.82%
Mn 257.610†	117362.1	3.947	mg/L	0.2730	3.947	mg/L	0.2730	6.92%
Mo 202.031†	6967.1	0.4481	mg/L	0.03049	0.4481	mg/L	0.03049	6.80%
Na 589.592†	-318972.2	-42.63	mg/L	2.735	-42.63	mg/L	2.735	6.42%
Na 330.237†	32408.1	1920	mg/L	203.80	1920	mg/L	203.80	10.62%
Ni 231.604†	33560.3	9.389	mg/L	1.2175	9.389	mg/L	1.2175	12.97%
Pb 220.353†	2010.5	0.3285	mg/L	0.05419	0.3285	mg/L	0.05419	16.49%
Sb 206.836†	7550.4	3.024	mg/L	0.2208	3.024	mg/L	0.2208	7.30%
Se 196.026†	-3270.1	-3.547	mg/L	0.3410	-3.547	mg/L	0.3410	9.61%
Si 288.158†	-35248.2	-29.88	mg/L	5.633	-29.88	mg/L	5.633	18.85%
Sn 189.927†	-1454.0	-0.4973	mg/L	0.06435	-0.4973	mg/L	0.06435	12.94%
Sr 421.552†	-268445.8	-0.5409	mg/L	0.03818	-0.5409	mg/L	0.03818	7.06%
Ti 334.903†	-237038.7	-16.50	mg/L	0.923	-16.50	mg/L	0.923	5.60%
Tl 190.801†	-5664.6	-3.874	mg/L	0.1867	-3.874	mg/L	0.1867	4.82%
V 292.402†	22306.3	0.2530	mg/L	0.00865	0.2530	mg/L	0.00865	3.42%
Zn 206.200†	13453.9	4.223	mg/L	0.1773	4.223	mg/L	0.1773	4.20%

Sequence No.: 78
Sample ID: DI4

Autosampler Location: 10
Date Collected: 10/28/2016 6:00:03 PM
Data Type: Original

Dilution: 1.000000X

Nebulizer Parameters: DI4

Analyte	Back Pressure	Flow
All	151.0 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	13034.9	0.7446	%	0.00188				0.25%
ScR 361.383	-263.9	-0.1371	%	0.00744				5.42%
Ag 328.068†	-12408.4	-0.09569	mg/L	0.021683	-0.09569	mg/L	0.021683	22.66%
Al 308.215†	57341.6	61.56	mg/L	4.004	61.56	mg/L	4.004	6.50%
As 188.979†	625.0	-0.05074	mg/L	0.070430	-0.05074	mg/L	0.070430	138.79%
B 249.677†	-40797.6	-7.887	mg/L	1.1508	-7.887	mg/L	1.1508	14.59%
Ba 233.527†	14171.3	2.378	mg/L	0.2473	2.378	mg/L	0.2473	10.40%
Be 313.042†	-722040.7	-2.191	mg/L	0.1457	-2.191	mg/L	0.1457	6.65%
Ca 317.933†	214978.1	30.03	mg/L	1.977	30.03	mg/L	1.977	6.58%
Cd 228.802†	7581.4	0.4427	mg/L	0.03384	0.4427	mg/L	0.03384	7.65%
Co 228.616†	-11833.7	-0.4378	mg/L	0.02217	-0.4378	mg/L	0.02217	5.06%
Cr 267.716†	32378.8	5.611	mg/L	0.5663	5.611	mg/L	0.5663	10.09%
Cu 324.752†	107649.4	0.7573	mg/L	0.01036	0.7573	mg/L	0.01036	1.37%
Fe 273.955†	70437.2	89.79	mg/L	3.302	89.79	mg/L	3.302	3.68%
K 766.490†	-344401.3	-283.0	mg/L	10.55	-283.0	mg/L	10.55	3.73%
Mg 279.077†	88755.9	108.9	mg/L	1.50	108.9	mg/L	1.50	1.38%
Mn 257.610†	118567.4	3.988	mg/L	0.3046	3.988	mg/L	0.3046	7.64%
Mo 202.031†	6427.9	0.4134	mg/L	0.02069	0.4134	mg/L	0.02069	5.01%
Na 589.592†	-322671.6	-43.12	mg/L	4.622	-43.12	mg/L	4.622	10.72%
Na 330.237†	29076.9	1722	mg/L	597.43	1722	mg/L	597.43	34.70%
Ni 231.604†	29384.8	8.222	mg/L	0.5803	8.222	mg/L	0.5803	7.06%
Pb 220.353†	2501.5	0.4023	mg/L	0.11620	0.4023	mg/L	0.11620	28.89%
Sb 206.836†	8008.4	3.215	mg/L	0.2268	3.215	mg/L	0.2268	7.05%
Se 196.026†	-2894.0	-3.140	mg/L	0.4589	-3.140	mg/L	0.4589	14.61%
Si 288.158†	-35798.5	-30.35	mg/L	1.511	-30.35	mg/L	1.511	4.98%
Sn 189.927†	-1662.9	-0.5697	mg/L	0.13225	-0.5697	mg/L	0.13225	23.22%
Sr 421.552†	-286826.5	-0.5780	mg/L	0.05416	-0.5780	mg/L	0.05416	9.37%
Ti 334.903†	-247447.1	-17.22	mg/L	1.051	-17.22	mg/L	1.051	6.10%
Tl 190.801†	-5621.2	-3.845	mg/L	0.4370	-3.845	mg/L	0.4370	11.37%
V 292.402†	22646.8	0.2561	mg/L	0.01609	0.2561	mg/L	0.01609	6.28%
Zn 206.200†	15047.0	4.724	mg/L	0.6128	4.724	mg/L	0.6128	12.97%

Analytical Resources, Incorporated

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 6010C

Laboratory: Analytical Resources, Inc.
SDG: 16H0147
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Instrument ID: ICP2
Calibration: ZJ00089
Control Limt: +/- 10.00%
Sequence: SEJ0466

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SEJ0466-ICV1	Cadmium	1.0000	1.02	102	mg/L	EPA 6010C
SEJ0466-CCV1	Cadmium	1.0000	1.01	101	mg/L	EPA 6010C
SEJ0466-CCV2	Cadmium	1.0000	1.01	101	mg/L	EPA 6010C
SEJ0466-CCV3	Cadmium	1.0000	1.02	102	mg/L	EPA 6010C
SEJ0466-CCV4	Cadmium	1.0000	1.02	102	mg/L	EPA 6010C
SEJ0466-CCV5	Cadmium	1.0000	1.01	101	mg/L	EPA 6010C
SEJ0466-CCV6	Cadmium	1.0000	0.997	99.7	mg/L	EPA 6010C
SEJ0466-CCV7	Cadmium	1.0000	0.998	99.8	mg/L	EPA 6010C
SEJ0466-CCV8	Cadmium	1.0000	0.996	99.6	mg/L	EPA 6010C
SEJ0466-CCV9	Cadmium	1.0000	1.01	101	mg/L	EPA 6010C

* Values outside of QC limits

Analytical Resources, Incorporated

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010C

Laboratory: Analytical Resources, Inc.
SDG: 16H0147
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Sequence: SEJ0466
Instrument: ICP2
Calibration: ZJ00089

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Cal Standard	SEJ0466-CAL1	I2161028-006	Water	10/28/16 10:50
Cal Standard	SEJ0466-CAL2	I2161028-007	Water	10/28/16 10:54
Cal Standard	SEJ0466-CAL3	I2161028-008	Water	10/28/16 10:56
Cal Standard	SEJ0466-CAL4	I2161028-009	Water	10/28/16 10:58
Cal Standard	SEJ0466-CAL5	I2161028-010	Water	10/28/16 11:00
Initial Cal Check	SEJ0466-ICV1	I2161028-011	Water	10/28/16 11:04
Initial Cal Blank	SEJ0466-ICB1	I2161028-012	Water	10/28/16 11:09
Instrument RL Check	SEJ0466-CRL1	I2161028-013	Water	10/28/16 11:13
Interference Check A	SEJ0466-IFA1	I2161028-014	Water	10/28/16 11:17
Interference Check B	SEJ0466-IFB1	I2161028-015	Water	10/28/16 11:21
Calibration Check	SEJ0466-CCV1	I2161028-016	Water	10/28/16 11:26
Calibration Blank	SEJ0466-CCB1	I2161028-017	Water	10/28/16 11:30
ZZZZZ	16J0366-02	I2161028-021	Water	10/28/16 11:46
ZZZZZ	16J0438-02	I2161028-025	Water	10/28/16 12:04
Calibration Check	SEJ0466-CCV2	I2161028-028	Water	10/28/16 12:20
Calibration Blank	SEJ0466-CCB2	I2161028-029	Water	10/28/16 12:25
Calibration Check	SEJ0466-CCV3	I2161028-031	Water	10/28/16 12:33
Calibration Blank	SEJ0466-CCB3	I2161028-032	Water	10/28/16 12:37
ZZZZZ	16J0378-07	I2161028-034	Water	10/28/16 12:45
ZZZZZ	16J0378-09	I2161028-035	Water	10/28/16 12:49
ZZZZZ	16J0378-10	I2161028-036	Water	10/28/16 12:54
ZZZZZ	16J0378-11	I2161028-037	Water	10/28/16 12:58
ZZZZZ	16J0378-12	I2161028-038	Water	10/28/16 13:02
ZZZZZ	16J0378-08	I2161028-040	Water	10/28/16 13:11
Calibration Check	SEJ0466-CCV4	I2161028-043	Water	10/28/16 13:30
Calibration Blank	SEJ0466-CCB4	I2161028-044	Water	10/28/16 13:36
ZZZZZ	16J0341-01	I2161028-046	Water	10/28/16 13:45
ZZZZZ	16J0336-01	I2161028-047	Water	10/28/16 13:49
ZZZZZ	16J0341-03	I2161028-048	Water	10/28/16 13:53
ZZZZZ	16J0341-04	I2161028-049	Water	10/28/16 13:57
ZZZZZ	16J0341-02	I2161028-051	Water	10/28/16 14:06

Analytical Resources, Incorporated

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010C

Laboratory: Analytical Resources, Inc.
SDG: 16H0147
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Sequence: SEJ0466
Instrument: ICP2
Calibration: ZJ00089

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Instrument Blank	SEJ0466-IBL1	I2161028-054	Water	10/28/16 14:18
Calibration Check	SEJ0466-CCV5	I2161028-055	Water	10/28/16 14:22
Calibration Blank	SEJ0466-CCB5	I2161028-056	Water	10/28/16 14:26
ZZZZZ	16J0341-05	I2161028-058	Water	10/28/16 14:34
ZZZZZ	16J0341-06	I2161028-059	Water	10/28/16 14:39
ZZZZZ	16J0341-07	I2161028-060	Water	10/28/16 14:43
ZZZZZ	16J0341-08	I2161028-061	Water	10/28/16 14:47
ZZZZZ	16J0341-09	I2161028-062	Water	10/28/16 14:52
Calibration Check	SEJ0466-CCV6	I2161028-067	Water	10/28/16 15:12
Calibration Blank	SEJ0466-CCB6	I2161028-068	Water	10/28/16 15:16
ZZZZZ	BEJ0795-BLK1	I2161028-070	Solid	10/28/16 15:24
ZZZZZ	16J0433-03	I2161028-071	Water	10/28/16 15:28
ZZZZZ	16J0433-04	I2161028-072	Water	10/28/16 15:32
ZZZZZ	16J0342-03	I2161028-073	Solid	10/28/16 15:37
ZZZZZ	16J0342-02	I2161028-074	Solid	10/28/16 15:41
ZZZZZ	16J0342-01	I2161028-076	Solid	10/28/16 15:49
ZZZZZ	BEJ0795-BS1	I2161028-078	Solid	10/28/16 15:56
Calibration Check	SEJ0466-CCV7	I2161028-079	Water	10/28/16 16:00
Calibration Blank	SEJ0466-CCB7	I2161028-080	Water	10/28/16 16:04
Blank	BEJ0777-BLK1	I2161028-081	Tissue	10/28/16 16:08
ZZZZZ	16J0413-05	I2161028-082	Solid	10/28/16 16:12
ZZZZZ	16J0413-07	I2161028-084	Solid	10/28/16 16:20
PG-T0-MUS-COC-160816	16H0147-01	I2161028-086	Tissue	10/28/16 16:28
ZZZZZ	16J0187-01	I2161028-088	Tissue	10/28/16 16:36
LCS	BEJ0777-BS1	I2161028-090	Tissue	10/28/16 16:45
Calibration Check	SEJ0466-CCV8	I2161028-091	Water	10/28/16 16:49
Calibration Blank	SEJ0466-CCB8	I2161028-092	Water	10/28/16 16:53
ZZZZZ	16H0268-01	I2161028-093	Tissue	10/28/16 16:57
ZZZZZ	16J0187-02	I2161028-094	Tissue	10/28/16 17:01
ZZZZZ	16J0187-03	I2161028-095	Tissue	10/28/16 17:05
ZZZZZ	16J0187-04	I2161028-096	Tissue	10/28/16 17:09

Analytical Resources, Incorporated

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 6010C

Laboratory:	Analytical Resources, Inc.	SDG:	16H0147
Client:	Anchor QEA, LLC	Project:	Port Gamble Shellfish Monitoring
Sequence:	SEJ0466	Instrument:	ICP2
		Calibration:	ZJ00089

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	16J0187-05	I2161028-097	Tissue	10/28/16 17:14
ZZZZZ	16J0187-06	I2161028-098	Tissue	10/28/16 17:18
Calibration Check	SEJ0466-CCV9	I2161028-099	Water	10/28/16 17:22
Calibration Blank	SEJ0466-CCB9	I2161028-100	Water	10/28/16 17:26

Analytical Resources, Incorporated

ICP INTERFERENCE CHECK SAMPLE

EPA 6010C

Laboratory: Analytical Resources, Inc.
SDG: 16H0147
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Instrument ID: ICP2
Calibration: ZJ00089
Sequence: SEJ0466
Standard ID: E004967

Lab Sample ID	Analyte	True	Found	%R	Units
SEJ0466-IFA1	Arsenic	0	0.0027		mg/L
	Cobalt	0	0.0017		mg/L
	Nickel	0	-0.0005		mg/L
	Vanadium	0	-0.0016		mg/L
	Cadmium	0	-0.0009		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.

Analytical Resources, Incorporated

ICP INTERFERENCE CHECK SAMPLE

EPA 6010C

Laboratory: Analytical Resources, Inc.
SDG: 16H0147
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Instrument ID: ICP2
Calibration: ZJ00089
Sequence: SEJ0466
Standard ID: E004967

Lab Sample ID	Analyte	True	Found	%R	Units
SEJ0466-IFB1	Arsenic	1.0000	0.9903	99.0	mg/L
	Cobalt	1.0000	0.9375	93.8	mg/L
	Nickel	1.0000	0.9648	96.5	mg/L
	Vanadium	1.0000	0.9558	95.6	mg/L
	Cadmium	1.0000	1.0040	100	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:	16H0147
Client:	Anchor QEA, LLC	Project:	Port Gamble Shellfish Monitoring
Instrument:	ICP2	IEC Date:	05/12/2016

Analyte	Wave-length (nm)	Interelement Correction Factors for: Al	Ca	Fe	Mg	Sb
Arsenic			0.147496			
Cadmium	228.8					
Cobalt						
Nickel						-0.48472
Vanadium				0.054249		

INTER-ELEMENT CORRECTION FACTORS

Laboratory:	Analytical Resources, Inc.	SDG:	16H0147
Client:	Anchor QEA, LLC	Project:	Port Gamble Shellfish Monitoring
Instrument:	ICP2	IEC Date:	05/12/2016

Analyte	Wave-length (nm)	Interelement Correction Factors for: As	Ba	Cd	Cr	Co
Arsenic					1.428339	-1.156813
Cadmium	228.8	5.553583				0.156872
Cobalt			0.126506		0	
Nickel						
Vanadium					-4.431174	

INTER-ELEMENT CORRECTION FACTORS

Laboratory:	Analytical Resources, Inc.	SDG:	16H0147
Client:	Anchor QEA, LLC	Project:	Port Gamble Shellfish Monitoring
Instrument:	ICP2	IEC Date:	05/12/2016

Analyte	Wave-length (nm)	Interelement Correction Factors for: Cu	Pb	Mn	Mo	Ni
Arsenic					3.362611	
Cadmium	228.8					-0.892927
Cobalt					-0.149322	0.145484
Nickel						
Vanadium				-0.144261	-0.435373	

INTER-ELEMENT CORRECTION FACTORS

Laboratory:	Analytical Resources, Inc.	SDG:	16H0147
Client:	Anchor QEA, LLC	Project:	Port Gamble Shellfish Monitoring
Instrument:	ICP2	IEC Date:	05/12/2016

Analyte	Wave-length (nm)	Interelement Correction Factors for: Tl	Ti	V	Zn	
Arsenic			-30.79292			
Cadmium	228.8			0.053016		
Cobalt			1.79711			
Nickel		0.476574				
Vanadium			0.590829			

Analytical Resources, Incorporated

DETECTION LEVEL STANDARD

EPA 6010C

Laboratory: Analytical Resources, Inc.
SDG: 16H0147
Client: Anchor QEA, LLC
Project: Port Gamble Shellfish Monitoring
Instrument ID: ICP2
Calibration: ZJ00089
Sequence: SEJ0466
Lab Sample ID: SEJ0466-CRL1

Analyte	True	Found	%R	Units	QC Limts
Cadmium	0.0020	0.0020	98.5	mg/L	50 - 150

* Values outside of QC limits

Analytical Resources, Incorporated

Form I
INORGANIC ANALYSIS DATA SHEET

PG-T0-MUS-COC-160816

Bligh & Dyer (Mod)

TotalAnalytes

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

Client: Anchor QEA, LLC SDG: 16H0147

Matrix: Tissue Laboratory ID: 16H0147-01 File ID:

Sampled: 08/16/16 08:00 Prepared: 10/26/16 15:28 Analyzed: 11/14/16 10:59

Solids (wt%): 0.00 Preparation: EPA 3550C-Mod (Ultrasonic) Initial/Final: 10 g / 10 mL

Batch: BEJ0808 Sequence: Calibration: Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Percent Lipids	1.7	1	0.010	0.010	

PREPARATION BATCH SUMMARY

Bligh & Dyer (Mod)

Laboratory:	Analytical Resources, Inc.			SDG:	16H0147
Client:	Anchor QEA, LLC			Project:	Port Gamble Shellfish Monitoring
Batch:	BEJ0808	Batch Matrix:	Tissue	Preparation:	EPA 3550C-Mod (Ultrasonic)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
PG-T0-MUS-COC-160816	16H0147-01		10/26/16 15:28	
Blank	BEJ0808-BLK1		10/26/16 15:28	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

(Modified Bligh/Dyer) % Lipids – Tissue
Modified TissueMizer (3550C) (SOP # 340S)

Preparation Test % Lipid Test # 1

Lab Number(s) 16H0147, 16H0268, 16J0187

Batch ID: BEJ0808

In-House

Batch set up by: ~~SH~~

Jar ID	ARI Sample ID	Original Extracted Weight (wet wt)	Original Volume (FEV) (mL)	(split aliquot) Y / (N)	Volume Taken (µL)	Tare Weight	Tare+Sample Weight	Comments	Verify Client ID
	BEJ0808 BLK	10.00	1 mL	(Y / (N))	(1,000 µL)	1.1650	1.1847	0.197	
A	16H0147-01	10.03	1 mL	(Y / (N))	(1,000 µL)	1.1618	1,3282	1.659	
A	16H0268-01	10.08	1 mL	(Y / (N))	(1,000 µL)	1.1596	1.3735	2.122	10/26/16
A	16J0187-01	10.13	1 mL	(Y / (N))	(1,000 µL)	1.1663	1.2915	1.233	
A	-02	10.17	1 mL	(Y / (N))	(1,000 µL)	1.1556	1.2635	1.080	Analyst/Date
A	-03	10.06	1 mL	(Y / (N))	(1,000 µL)	1.1671	1.2889	1.210	KD 80-85°C (1) 2 3 4 5 6
A	-04	10.05	1 mL	(Y / (N))	(1,000 µL)	1.1649	1.2850	1.195	
A	-05	10.01	1 mL	(Y / (N))	(1,000 µL)	1.1590	1.2801	1.249	RH 11/7/16
A	-06	10.09	1 mL	(Y / (N))	(1,000 µL)	1.1538	1.2824	1.274	
			mL	(Y / N)	(µL)				
			mL	(Y / N)	(µL)				
			mL	(Y / N)	(µL)				
			mL	(Y / N)	(µL)				Analyst/Date
			mL	(Y / N)	(µL)				TurboVap (1) 2 3 4 5 11/9/16
			mL	(Y / N)	(µL)				
			mL	(Y / N)	(µL)				
			mL	(Y / N)	(µL)				
			mL	(Y / N)	(µL)				
			mL	(Y / N)	(µL)				
Analyst/Date			11/9/16		11/9/16	11/9/16	11/10/16	Reviewed by/Date 11/10/16	Analyst/Date

Balance ID: B13929804

Analytical Balance ID: ~~B13929804~~ 11232305

SPECIAL INSTRUCTIONS: 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 tissuemizzing. 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 at 80-85°C. 8. 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.

*NOTE: THE TARGET IS GENERALLY A 10:1 RATIO (10G SAMPLE TO 1mL FEV).

Freeze Y (N)

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: 16H0147/16H0268/16J0187 Client ID: Anchor QEA, LLC

Batch ID: BEJ0848

Parameter: % Lipids Client Project: Port Gamble Shellfish Monitoring

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☐ No Anomalies (standard soil/wet sediment/sand/gravel)=	
☐ Standing Water Decanted (Not shared)=	
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☐ Rocks (%+size)?	
☐ Organics (Leaves/sticks/grass)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☒ Other (Details)= 16H0147=01, HH0268=01, 16J0187=01–06. All homogenized tissue	MJE 10/26/16
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☒ Share Samples Y / N	MJE 10/26/16
☒ Multiple Jars Y / N	MJE 10/26/16
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

Analytical Resources, Incorporated

Form I

METHOD BLANK DATA SHEET

Bligh & Dyer (Mod)

TotalAnalytes

Blank

Batch: BEJ0808 Laboratory ID: BEJ0808-BLK1 Prepared: 10/26/16 15:28

Matrix: Tissue Preparation: EPA 3550C-Mod (Ultrasor Analyzed: 11/14/16 10:59

Sequence: Calibration: Instrument: Inst

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Percent Lipids	0.20	1	0.010	0.010	

Analytical Resources, Incorporated

HOLDING TIME SUMMARY

Analysis: Bligh & Dyer (Mod)

Laboratory: Analytical Resources, Inc. SDG: 16H0147

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

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
PG-T0-MUS-COC-160816 16H0147-01	08/16/16 08:00	08/17/16 08:30	10/26/16 15:28	71	365	11/14/16 10:59	90	365	

* Indicates hold time exceedance.

Analytical Resources, Incorporated

METHOD DETECTION AND REPORTING LIMITS

Bligh & Dyer (Mod)

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

Analyte	MDL	RL	Units
Percent Lipids	0.010	0.010	%

PG-T0-MUS-COC-160816

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270D-SIM

8270D-SIM PAH (0.01 ug/L)

Laboratory:	Analytical Resources, Inc.			SDG:	16H0147
Client:	Anchor QEA, LLC			Project:	Port Gamble Shellfish Monitoring
Matrix:	Tissue	Laboratory ID:	16H0147-01	File ID:	16111005.D
Sampled:	08/16/16 08:00	Prepared:	10/26/16 15:10	Analyzed:	11/10/16 13:39
Solids:		Preparation:	EPA 3550C-Mod (Ultrasonic	Initial/Final:	10.07 g / 0.5 mL
Batch:	BEJ0794	Sequence:	SEK0151	Calibration:	ZK00002
Instrument:	NT11	Column:	RXi-17Sil-MS		

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg)	Q	DL	RL
91-20-3	Naphthalene	1	0.66		0.50	0.60
91-57-6	2-Methylnaphthalene	1	0.50	U	0.50	0.50
208-96-8	Acenaphthylene	1	0.50	U	0.50	0.50
83-32-9	Acenaphthene	1	0.50	U	0.50	0.50
86-73-7	Fluorene	1	0.50	U	0.50	0.50
85-01-8	Phenanthrene	1	0.50	U	0.50	0.50
120-12-7	Anthracene	1	0.50	U	0.50	0.50
206-44-0	Fluoranthene	1	0.50	U	0.50	0.50
129-00-0	Pyrene	1	0.50	U	0.50	0.50
56-55-3	Benzo(a)anthracene	1	0.50	U	0.50	0.50
218-01-9	Chrysene	1	0.50	U	0.50	0.50
205-99-2	Benzo(b)fluoranthene	1	0.50	U	0.50	0.50
207-08-9	Benzo(k)fluoranthene	1	0.50	U	0.50	0.50
50-32-8	Benzo(a)pyrene	1	0.50	U	0.50	0.50
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.50	U	0.50	0.50
53-70-3	Dibenzo(a,h)anthracene	1	0.50	U	0.50	0.50
191-24-2	Benzo(g,h,i)perylene	1	0.50	U	0.50	0.50
1985-5-0	Perylene	1	0.50	U	0.50	0.50
197-97-2	Benzo(e)pyrene	1	0.50	U	0.50	0.50

SURROGATES	ADDED (ug/kg)	CONC (ug/kg)	% REC	QC LIMITS	Q
2-Methylnaphthalene-d10	14.896	8.92	59.9	30 - 160	
Dibenzo[a,h]anthracene-d14	14.896	12.3	82.5	30 - 160	
Fluoranthene-d10	14.896	11.3	76.1	30 - 160	

Data File: \\target\share\chem3\nt11.i\20161110.b\16111005.D

Page 1

Date : 10-NOV-2016 13:39

Client ID:

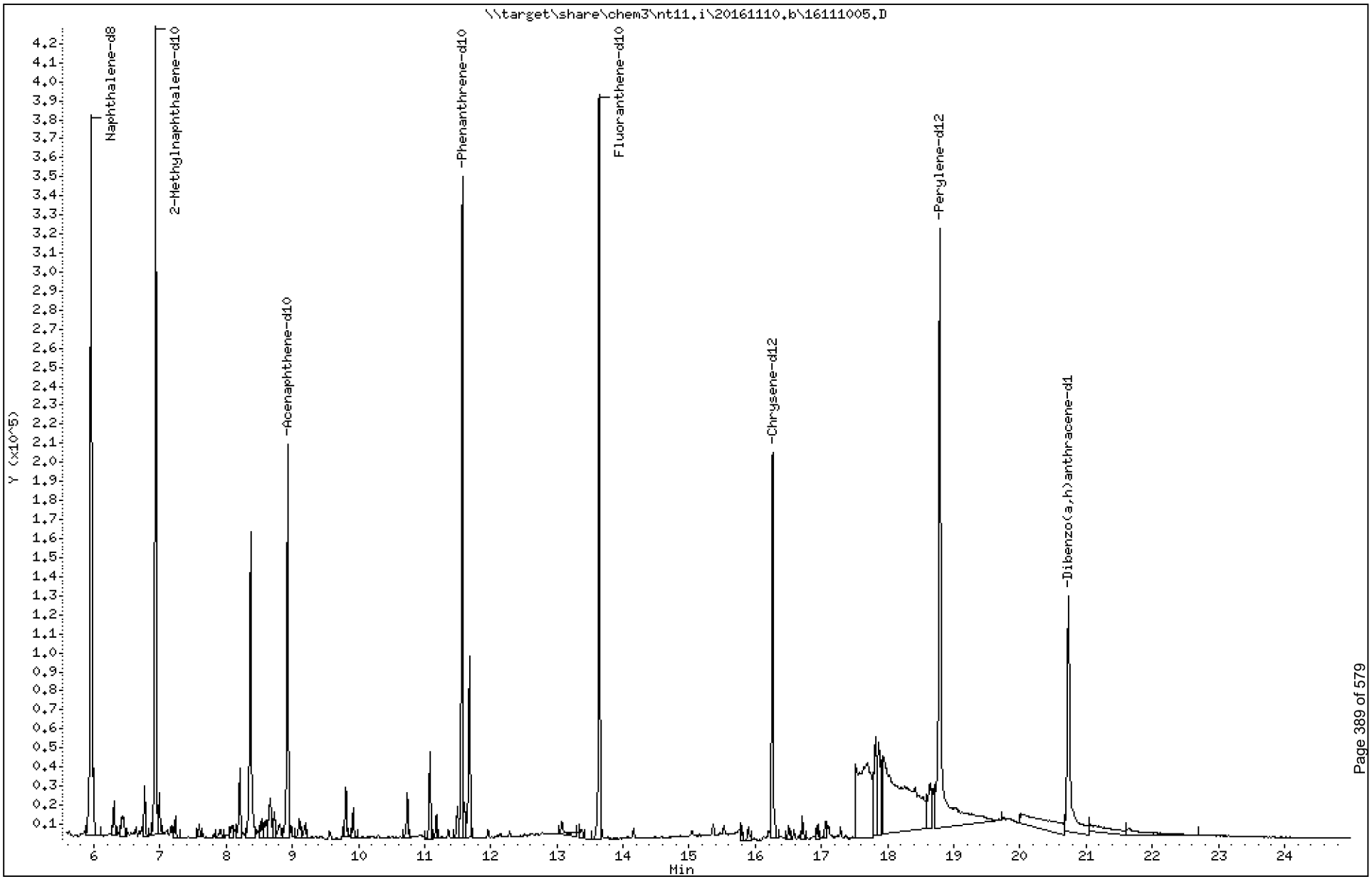
Instrument: nt11.i

Sample Info: 16H0147-01

Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25



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Date : 10-NOV-2016 13:39

Client ID:

Instrument: nt11.i

Sample Info: 16H0147-01

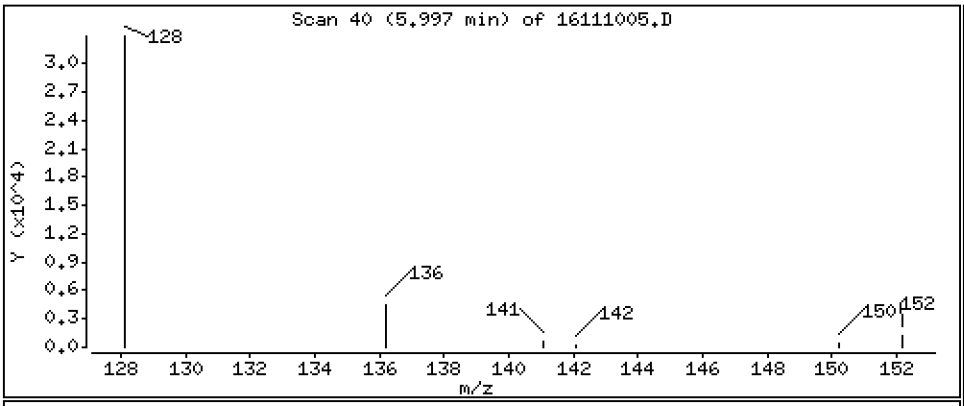
Operator: JW

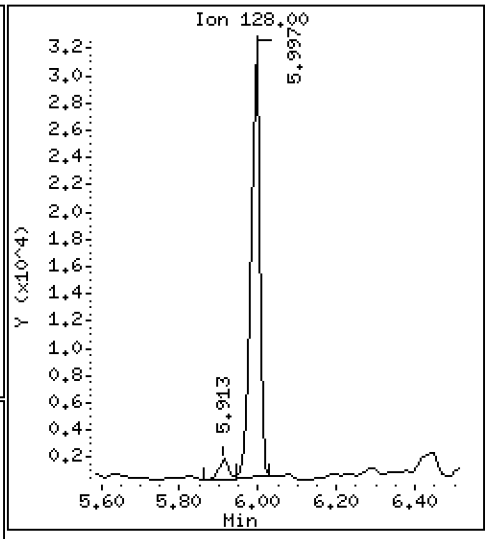
Column phase: Rxi-17Sil MS

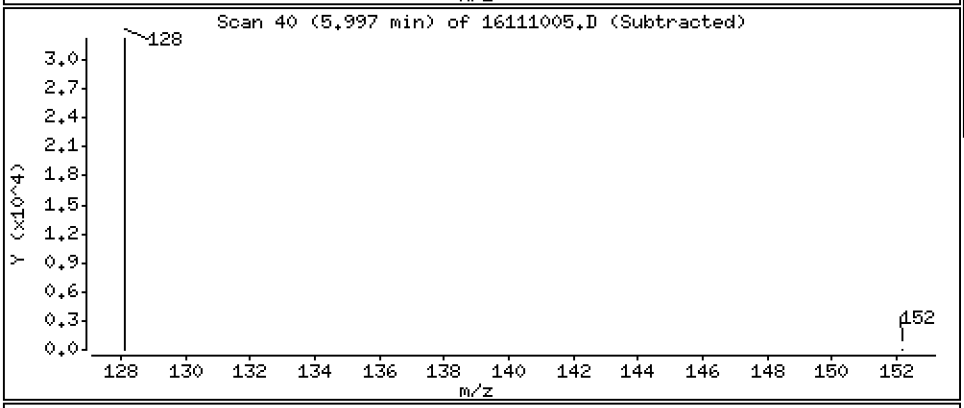
Column diameter: 0.25

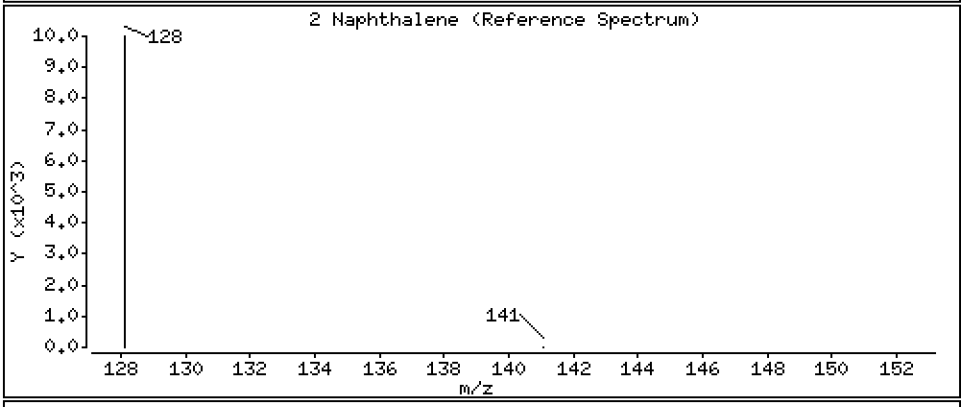
2 Naphthalene

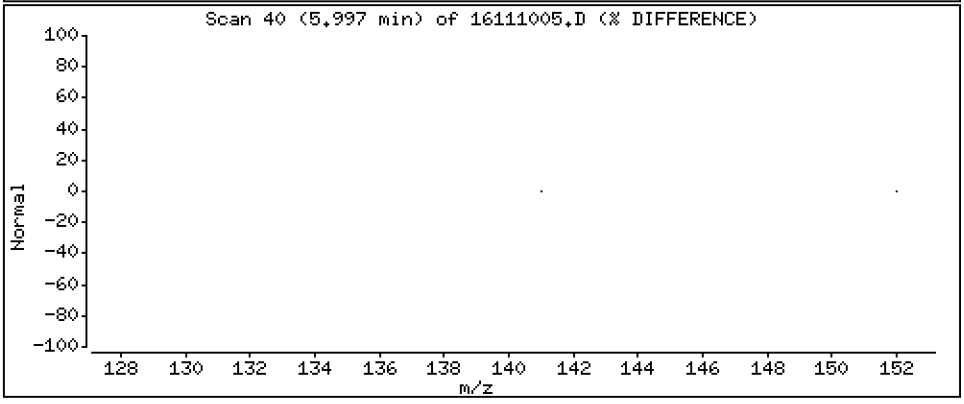
Concentration: 13.4 ng/mL











ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20161110.b\16111005.D
Lab Smp Id: 16H0147-01
Inj Date : 10-NOV-2016 13:39 MS Autotune Date: 15-JAN-2015 15:59
Operator : JW Inst ID: nt11.i
Smp Info : 16H0147-01
Misc Info :
Comment :
Method : \\target\share\chem3\nt11.i\20161110.b\lowsim.m
Meth Date : 10-Nov-2016 13:00 nt11.i Quant Type: ISTD
Cal Date : 01-NOV-2016 12:34 Cal File: 16110107.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PEMD.sub
Target Version: 4.14
Processing Host: AUTOSPECDATA02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	FINAL (ng/mL)
*	1 Naphthalene-d8	136	5.955	5.965	(1.000)	614914	200.000	
	2 Naphthalene	128	5.997	6.007	(1.007)	47885	13.3598	13.4
$	3 2-Methylnaphthalene-d10	152	6.932	6.942	(1.164)	333674	179.706	180
	4 2-Methylnaphthalene	142	Compound Not Detected.					
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	6 Acenaphthylene	152	Compound Not Detected.					
*	7 Acenaphthene-d10	164	8.928	8.928	(1.000)	288971	200.000	
	8 Acenaphthene	153	Compound Not Detected.					
	9 Dibenzofuran	168	Compound Not Detected.					
$	10 Fluorene-d10	174	Compound Not Detected.					
	11 Fluorene	166	Compound Not Detected.					
*	12 Phenanthrene-d10	188	11.571	11.571	(1.000)	489101	200.000	
	13 Phenanthrene	178	Compound Not Detected.					
$	14 Anthracene-d10	188	Compound Not Detected.					
	15 Anthracene	178	Compound Not Detected.					
$	16 Fluoranthene-d10	212	13.646	13.646	(1.179)	529089	228.367	228
	17 Fluoranthene	202	Compound Not Detected.					
	18 Pyrene	202	Compound Not Detected.					
	19 Benzo(a)anthracene	228	Compound Not Detected.					
*	20 Chrysene-d12	240	16.264	16.264	(1.000)	315458	200.000	
	21 Chrysene	228	Compound Not Detected.					
	22 Benzo(b)fluoranthene	252	Compound Not Detected.					
	23 Benzo(k)fluoranthene	252	Compound Not Detected.					
	24 Benzo(j)fluoranthene	252	Compound Not Detected.					
$	25 Benzo(e)pyrene-d12	264	Compound Not Detected.					
	26 Benzo(e)pyrene	252	Compound Not Detected.					
	27 Benzo(a)pyrene	252	Compound Not Detected.					
*	28 Perylene-d12	264	18.788	18.788	(1.000)	442359	200.000	
	29 Perylene	252	Compound Not Detected.					
$	30 Dibenzo(a,h)anthracene-d14	292	20.728	20.739	(1.103)	339103	247.498	247
	31 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	32 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	33 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ng/mL)

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt11.i
Lab File ID: 16111005.D
Lab Smp Id: 16H0147-01
Analysis Type: SV
Quant Type: ISTD
Operator: JW
Method File: \\target\share\chem3\nt11.i\20161110.b\lowsim.m
Misc Info:

Calibration Date: 10-NOV-2016
Calibration Time: 11:38
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	609556	304778	1219112	614914	0.88
7 Acenaphthene-d10	316851	158426	633702	288971	-8.80
12 Phenanthrene-d10	546133	273067	1092266	489101	-10.44
20 Chrysene-d12	417210	208605	834420	315458	-24.39
28 Perylene-d12	524443	262222	1048886	442359	-15.65

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	5.97	5.47	6.47	5.96	-0.18
7 Acenaphthene-d10	8.93	8.43	9.43	8.93	0.00
12 Phenanthrene-d10	11.57	11.07	12.07	11.57	0.00
20 Chrysene-d12	16.26	15.76	16.76	16.26	0.00
28 Perylene-d12	18.79	18.29	19.29	18.79	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - 16111005.D

Lab ID: 16H0147-01
nt11.i, 20161110.b\lowsim.m,   10-NOV-2016 13:39

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

On Column LOD for nt11.i, 20161110.b\lowsim.m, PEMD.sub = 0.0000

Analytical Resources, Incorporated

Form I
METHOD BLANK DATA SHEET
EPA 8270D-SIM

Blank

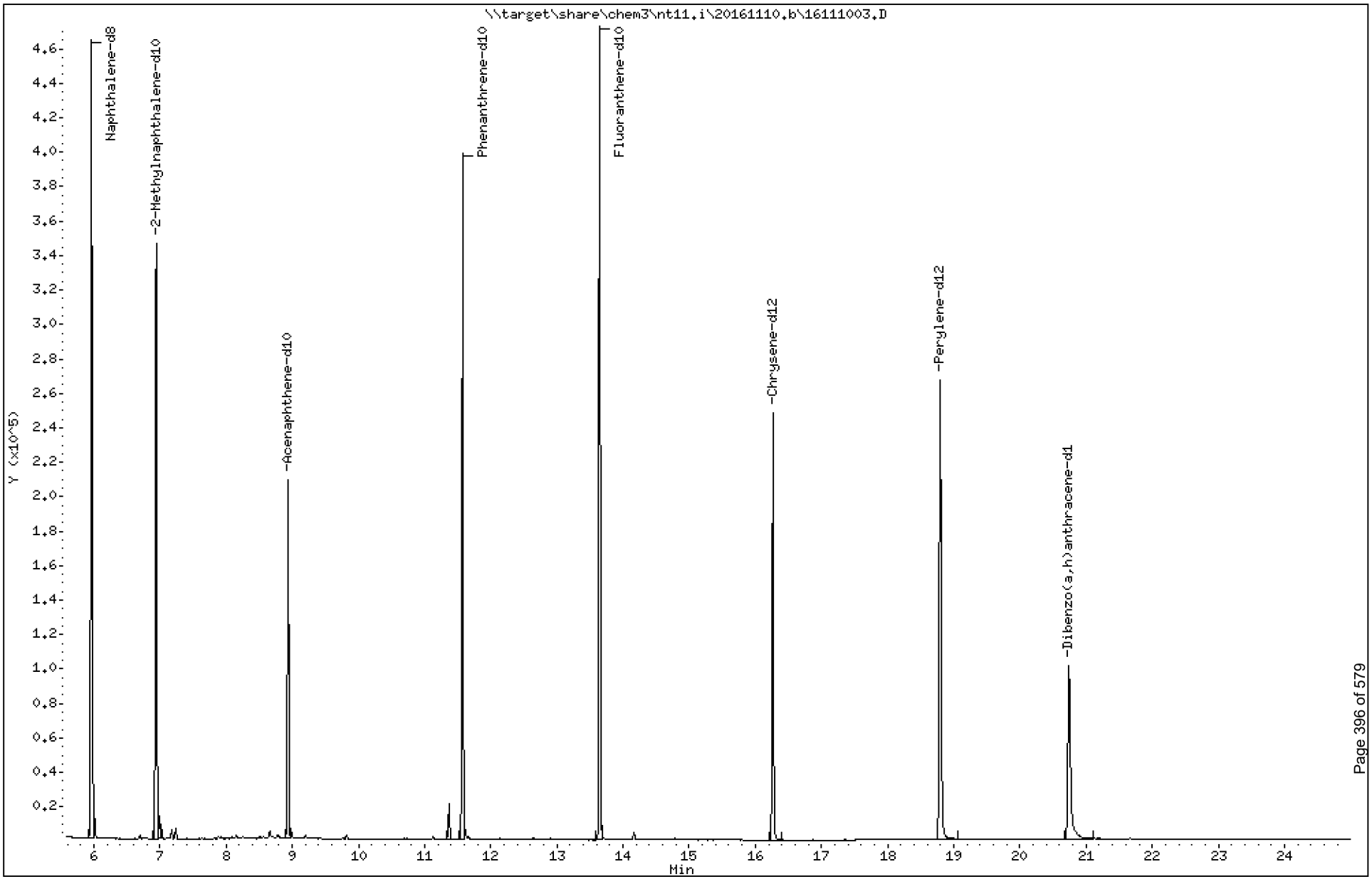
Laboratory:	Analytical Resources, Inc.			SDG:	16H0147
Client:	Anchor QEA, LLC			Project:	Port Gamble Shellfish Monitoring
Matrix:	Tissue	Laboratory ID:	BEJ0794-BLK1	File ID:	16111003.D
Sampled:	N/A	Prepared:	10/26/16 13:35	Analyzed:	11/10/16 12:40
Solids:		Preparation:	EPA 3550C-Mod (Ultrasonic	Initial/Final:	10 g / 0.5 mL
Batch:	BEJ0794	Sequence:	SEK0151	Calibration:	ZK00002
Instrument:	NT11	Column:	RXi-17Sil-MS		

CAS NO.	COMPOUND	DILUTION	CONC. (ug/kg)	Q	DL	RL
91-20-3	Naphthalene	1	0.60	U	0.50	0.60
91-57-6	2-Methylnaphthalene	1	0.50	U	0.50	0.50
208-96-8	Acenaphthylene	1	0.50	U	0.50	0.50
83-32-9	Acenaphthene	1	0.50	U	0.50	0.50
86-73-7	Fluorene	1	0.50	U	0.50	0.50
85-01-8	Phenanthrene	1	0.50	U	0.50	0.50
120-12-7	Anthracene	1	0.50	U	0.50	0.50
206-44-0	Fluoranthene	1	0.50	U	0.50	0.50
129-00-0	Pyrene	1	0.50	U	0.50	0.50
56-55-3	Benzo(a)anthracene	1	0.50	U	0.50	0.50
218-01-9	Chrysene	1	0.50	U	0.50	0.50
205-99-2	Benzo(b)fluoranthene	1	0.50	U	0.50	0.50
207-08-9	Benzo(k)fluoranthene	1	0.50	U	0.50	0.50
50-32-8	Benzo(a)pyrene	1	0.50	U	0.50	0.50
193-39-5	Indeno(1,2,3-cd)pyrene	1	0.50	U	0.50	0.50
53-70-3	Dibenzo(a,h)anthracene	1	0.50	U	0.50	0.50
191-24-2	Benzo(g,h,i)perylene	1	0.50	U	0.50	0.50
1985-5-0	Perylene	1	0.50	U	0.50	0.50
197-97-2	Benzo(e)pyrene	1	0.50	U	0.50	0.50

SURROGATES	ADDED (ug/kg)	CONC (ug/kg)	% REC	QC LIMITS	Q
2-Methylnaphthalene-d10	15.000	7.71	51.4	30 - 160	
Dibenzo[a,h]anthracene-d14	15.000	12.2	81.4	30 - 160	
Fluoranthene-d10	15.000	11.2	74.8	30 - 160	

Data File: \\target\share\chem3\nt11.i\20161110.b\16111003.D
Date : 10-NOV-2016 12:40
Client ID:
Sample Info: BEJ0794-BLK1

Instrument: nt11.i
Operator: JW
Column phase: Rxi-17Sil MS
Column diameter: 0.25



ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20161110.b\16111003.D
Lab Smp Id: BEJ0794-BLK1
Inj Date : 10-NOV-2016 12:40 MS Autotune Date: 15-JAN-2015 15:59
Operator : JW Inst ID: nt11.i
Smp Info : BEJ0794-BLK1
Misc Info :
Comment :
Method : \\target\share\chem3\nt11.i\20161110.b\lowsim.m
Meth Date : 10-Nov-2016 13:00 nt11.i Quant Type: ISTD
Cal Date : 01-NOV-2016 12:34 Cal File: 16110107.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PEMD.sub
Target Version: 4.14
Processing Host: AUTOSPECDATA02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	FINAL (ng/mL)
*	1 Naphthalene-d8	136	5.965	5.965	(1.000)	622424	200.000	
	2 Naphthalene	128	Compound Not Detected.					
$	3 2-Methylnaphthalene-d10	152	6.942	6.942	(1.164)	289633	154.105	154
	4 2-Methylnaphthalene	142	Compound Not Detected.					
	5 1-Methylnaphthalene	142	Compound Not Detected.					
	6 Acenaphthylene	152	Compound Not Detected.					
*	7 Acenaphthene-d10	164	8.939	8.928	(1.000)	294676	200.000	
	8 Acenaphthene	153	Compound Not Detected.					
	9 Dibenzofuran	168	Compound Not Detected.					
$	10 Fluorene-d10	174	Compound Not Detected.					
	11 Fluorene	166	Compound Not Detected.					
*	12 Phenanthrene-d10	188	11.571	11.571	(1.000)	522842	200.000	
	13 Phenanthrene	178	Compound Not Detected.					
$	14 Anthracene-d10	188	Compound Not Detected.					
	15 Anthracene	178	Compound Not Detected.					
$	16 Fluoranthene-d10	212	13.646	13.646	(1.179)	555435	224.267	224
	17 Fluoranthene	202	Compound Not Detected.					
	18 Pyrene	202	Compound Not Detected.					
	19 Benzo(a)anthracene	228	Compound Not Detected.					
*	20 Chrysene-d12	240	16.264	16.264	(1.000)	352800	200.000	
	21 Chrysene	228	Compound Not Detected.					
	22 Benzo(b)fluoranthene	252	Compound Not Detected.					
	23 Benzo(k)fluoranthene	252	Compound Not Detected.					
	24 Benzo(j)fluoranthene	252	Compound Not Detected.					
$	25 Benzo(e)pyrene-d12	264	Compound Not Detected.					
	26 Benzo(e)pyrene	252	Compound Not Detected.					
	27 Benzo(a)pyrene	252	Compound Not Detected.					
*	28 Perylene-d12	264	18.797	18.788	(1.000)	416680	200.000	
	29 Perylene	252	Compound Not Detected.					
$	30 Dibenzo(a,h)anthracene-d14	292	20.739	20.739	(1.103)	315216	244.242	244
	31 Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	32 Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	33 Benzo(g,h,i)perylene	276	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	CONCENTRATIONS FINAL (ng/mL)

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt11.i
Lab File ID: 16111003.D
Lab Smp Id: BEJ0794-BLK1
Analysis Type: SV
Quant Type: ISTD
Operator: JW
Method File: \\target\share\chem3\nt11.i\20161110.b\lowsim.m
Misc Info:

Calibration Date: 10-NOV-2016
Calibration Time: 11:38
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	609556	304778	1219112	622424	2.11
7 Acenaphthene-d10	316851	158426	633702	294676	-7.00
12 Phenanthrene-d10	546133	273067	1092266	522842	-4.26
20 Chrysene-d12	417210	208605	834420	352800	-15.44
28 Perylene-d12	524443	262222	1048886	416680	-20.55

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	5.97	5.47	6.47	5.97	0.00
7 Acenaphthene-d10	8.93	8.43	9.43	8.94	0.12
12 Phenanthrene-d10	11.57	11.07	12.07	11.57	0.00
20 Chrysene-d12	16.26	15.76	16.76	16.26	0.00
28 Perylene-d12	18.79	18.29	19.29	18.80	0.05

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - 16111003.D

Lab ID: BEJ0794-BLK1
nt11.i, 20161110.b\lowsim.m,   10-NOV-2016 12:40

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

On Column LOD for nt11.i, 20161110.b\lowsim.m, PEMD.sub = 0.0000

LCS / LCS DUPLICATE RECOVERY

EPA 8270D-SIM

Laboratory:	Analytical Resources, Inc.	SDG:	16H0147
Client:	Anchor QEA, LLC	Project:	Port Gamble Shellfish Monitoring
Matrix:	Tissue	Analyzed:	11/10/16 13:09
Batch:	BEJ0794	Laboratory ID:	BEJ0794-BS1
Preparation:	EPA 3550C-Mod (Ultrasonic)	Sequence Name:	LCS
Initial/Final:	10 g / 0.5 mL		

COMPOUND	SPIKE ADDED (ug/kg)	LCS CONCENTRATION (ug/kg)	LCS % REC. #	QC LIMITS REC.
Naphthalene	15.0	6.97	46.5	30 - 160
2-Methylnaphthalene	15.0	6.89	45.9	30 - 160
Acenaphthylene	15.0	6.19	41.3	30 - 160
Acenaphthene	15.0	7.64	51.0	30 - 160
Fluorene	15.0	7.78	51.9	30 - 160
Phenanthrene	15.0	9.35	62.3	30 - 160
Anthracene	15.0	7.80	52.0	30 - 160
Fluoranthene	15.0	10.3	68.7	30 - 160
Pyrene	15.0	10.8	72.0	30 - 160
Benzo(a)anthracene	15.0	10.2	68.3	30 - 160
Chrysene	15.0	10.6	70.8	30 - 160
Benzo(b)fluoranthene	15.0	10.1	67.3	30 - 160
Benzo(k)fluoranthene	15.0	11.6	77.4	30 - 160
Benzo(a)pyrene	15.0	8.80	58.7	30 - 160
Indeno(1,2,3-cd)pyrene	15.0	10.5	70.1	30 - 160
Dibenzo(a,h)anthracene	15.0	10.4	69.2	30 - 160
Benzo(g,h,i)perylene	15.0	10.3	68.4	30 - 160
Perylene	15.0	8.97	59.8	30 - 160
Benzo(e)pyrene	15.0	10.4	69.6	30 - 160

* Values outside of QC limits

Data File: \\target\share\chem3\nt11.i\20161110.b\16111004.D

Page 1

Date : 10-NOV-2016 13:09

Client ID:

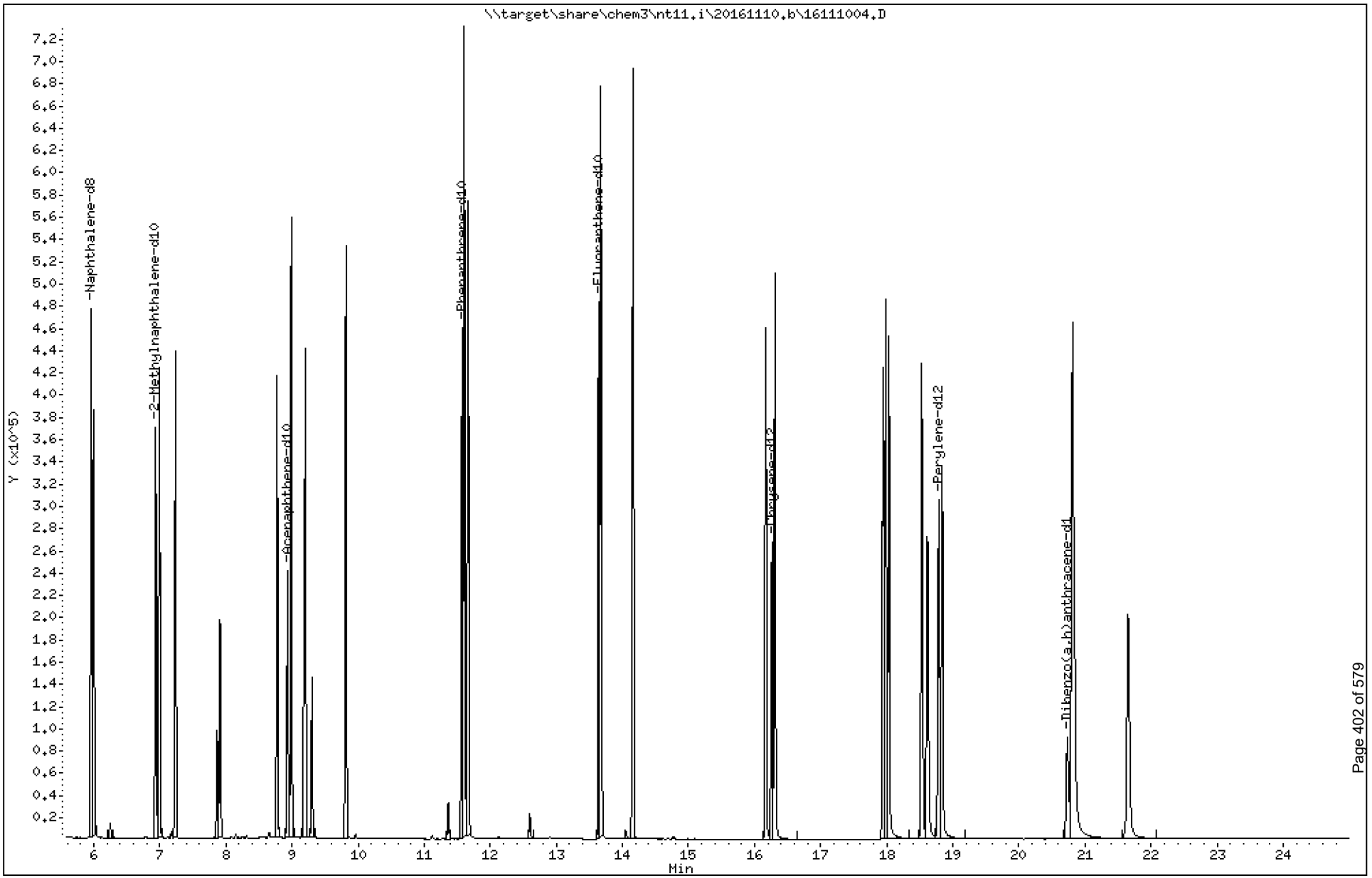
Instrument: nt11.i

Sample Info: BEJ0794-BS1

Operator: JW

Column phase: Rxi-17Sil MS

Column diameter: 0.25



Data File: \\target\share\chem3\nt11.i\20161110.b\16111004.D

Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

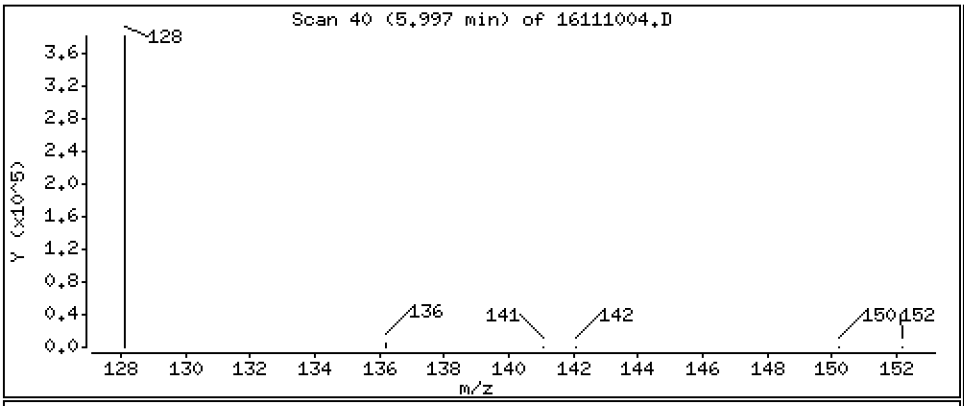
Operator: JW

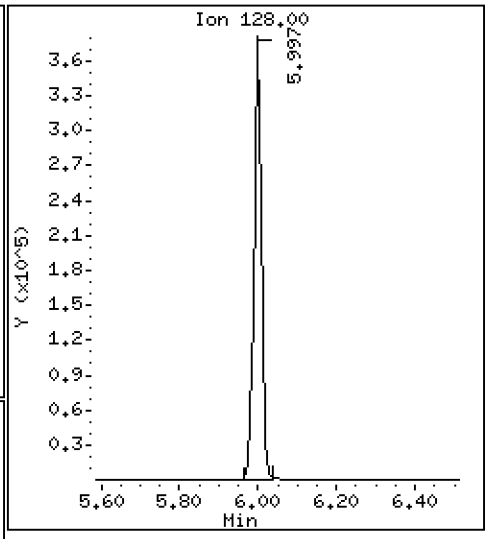
Column phase: Rxi-17Sil MS

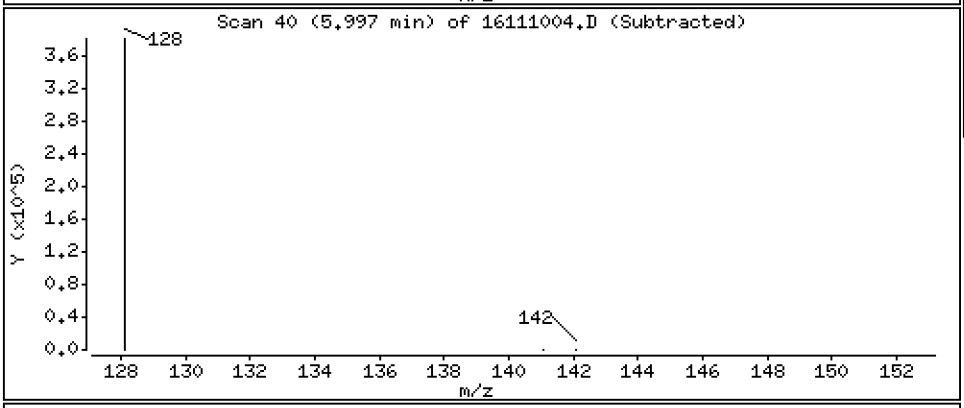
Column diameter: 0.25

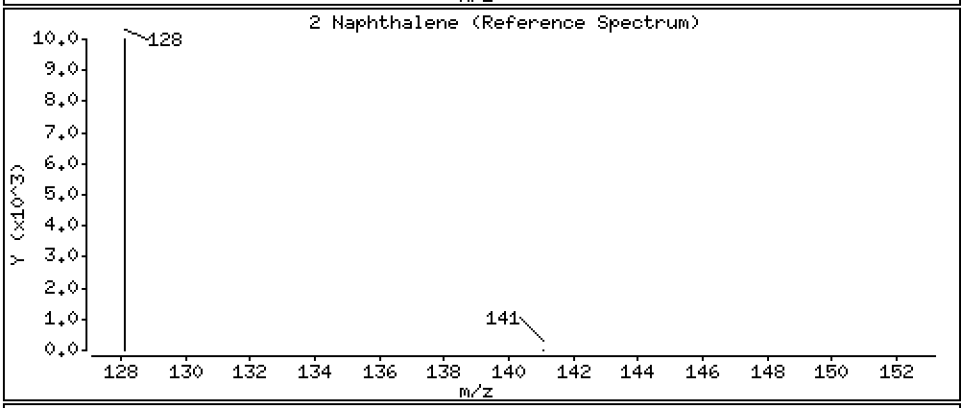
2 Naphthalene

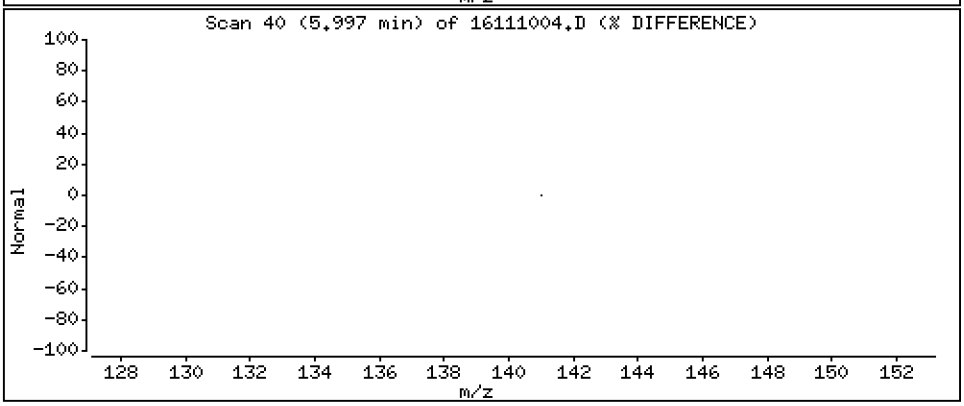
Concentration: 139 ng/mL











Data File: \\target\share\chem3\nt11.i\20161110.b\16111004.D

Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

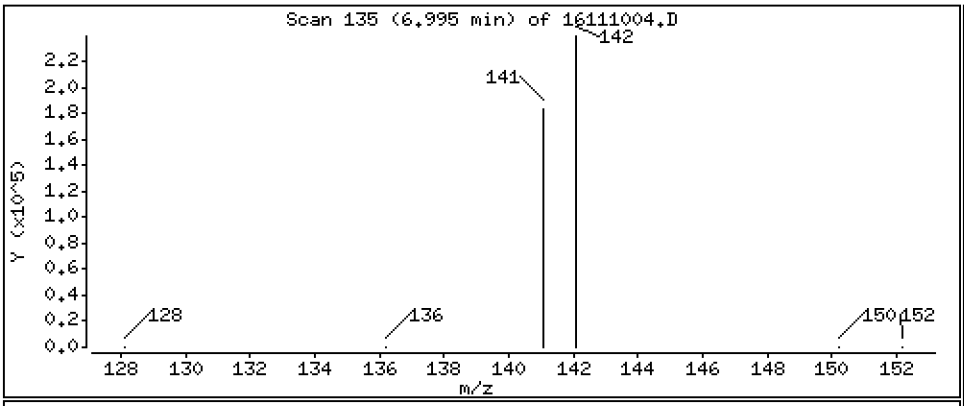
Operator: JW

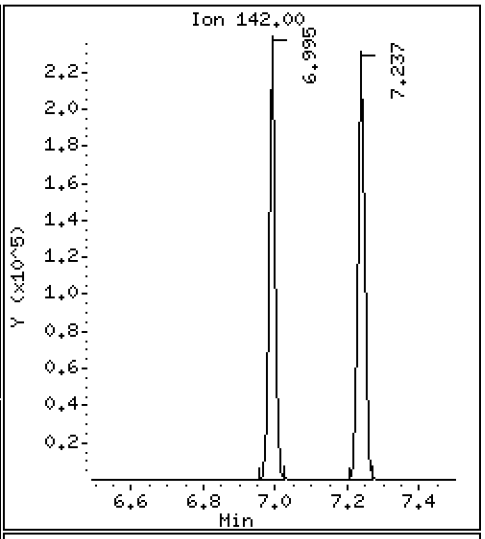
Column phase: Rxi-17Sil MS

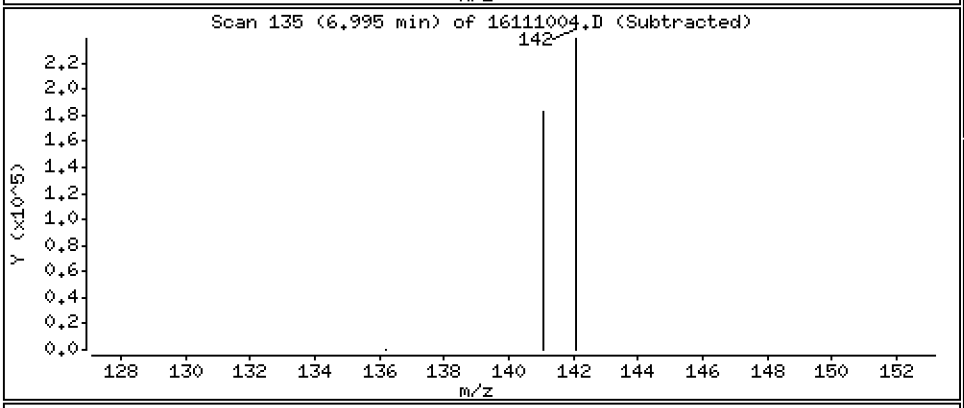
Column diameter: 0.25

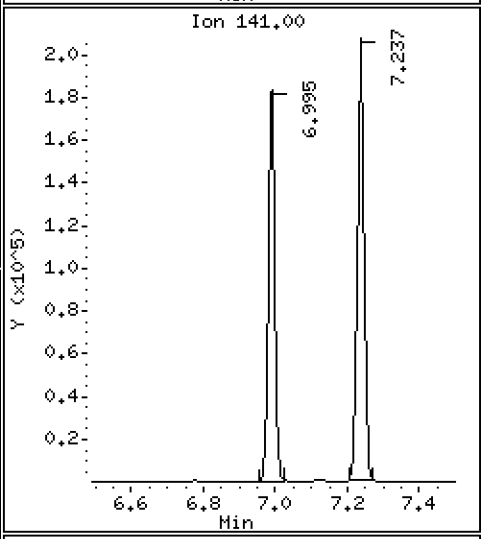
4 2-Methylnaphthalene

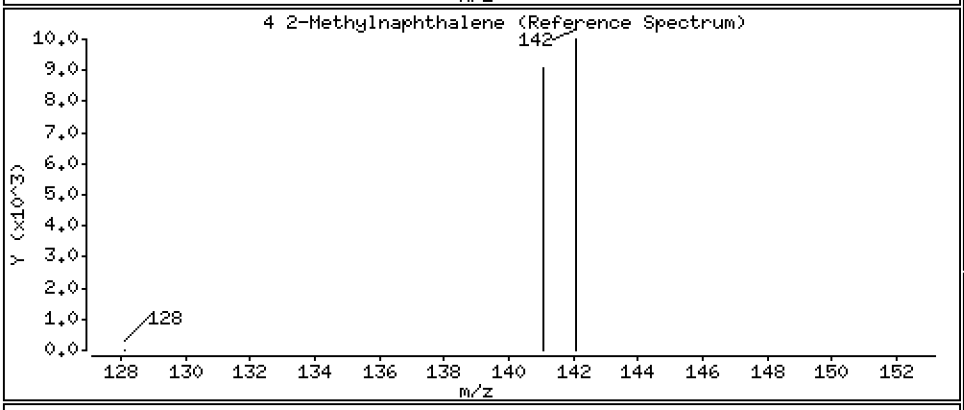
Concentration: 138 ng/mL

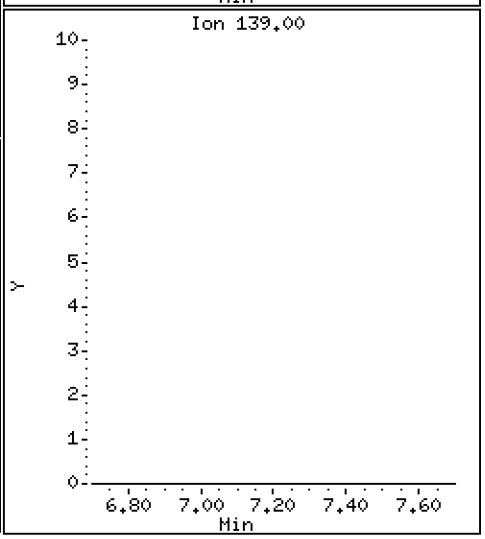


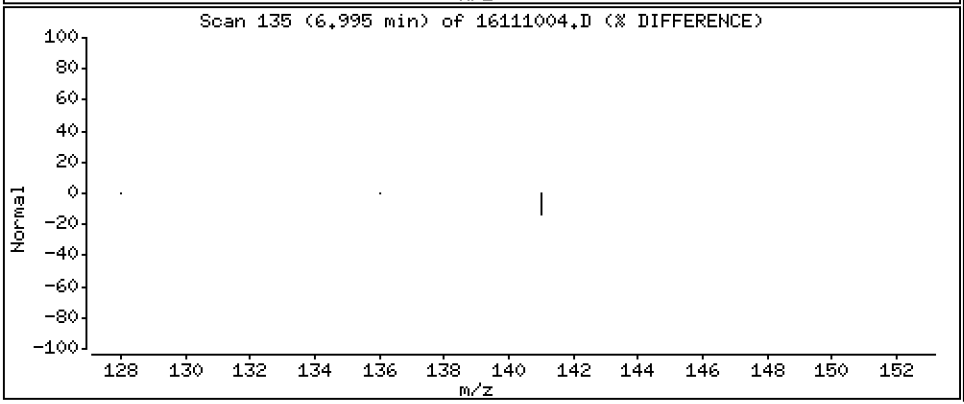












Data File: \\target\share\chem3\nt11.i\20161110.b\16111004.D

Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

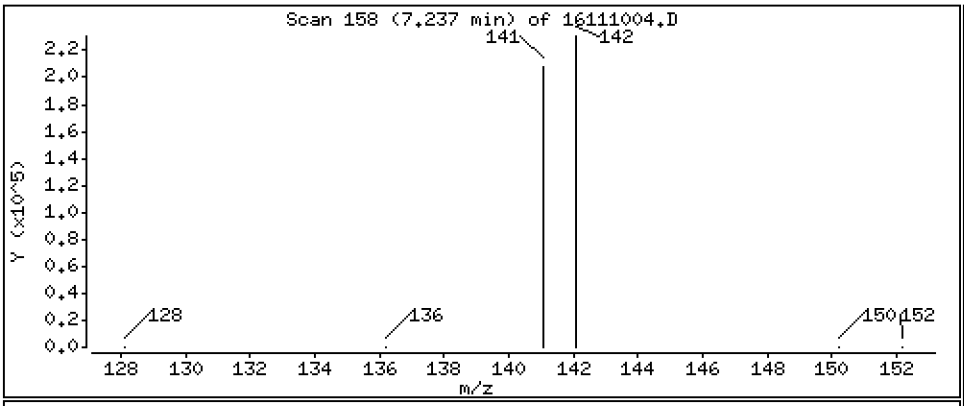
Operator: JW

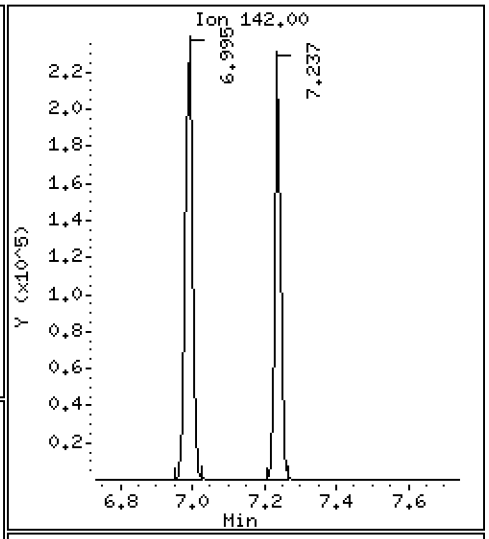
Column phase: Rxi-17Sil MS

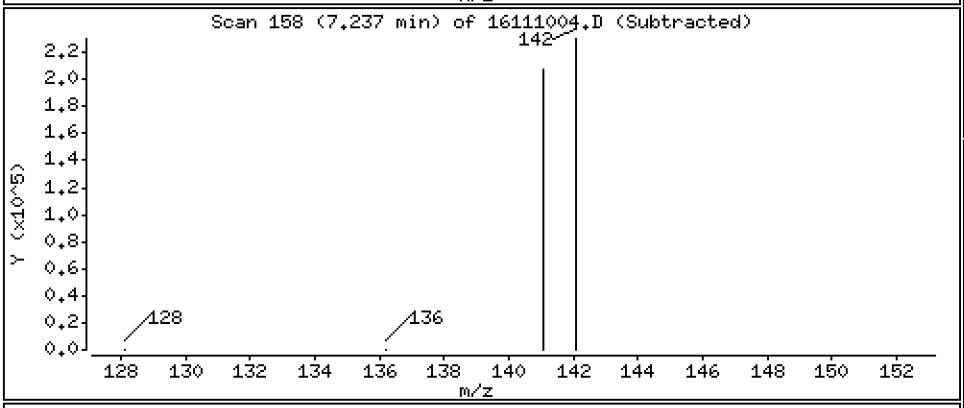
Column diameter: 0.25

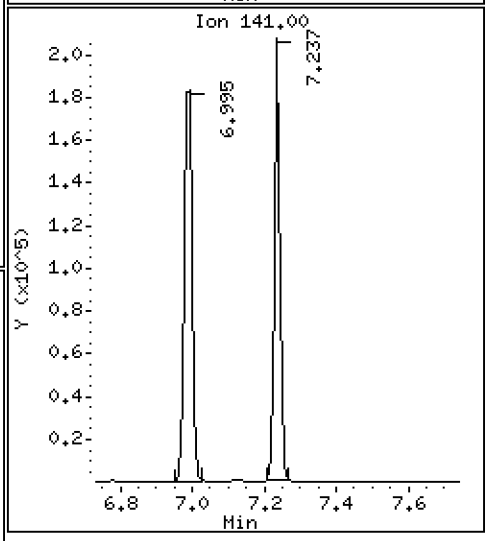
5 1-Methylnaphthalene

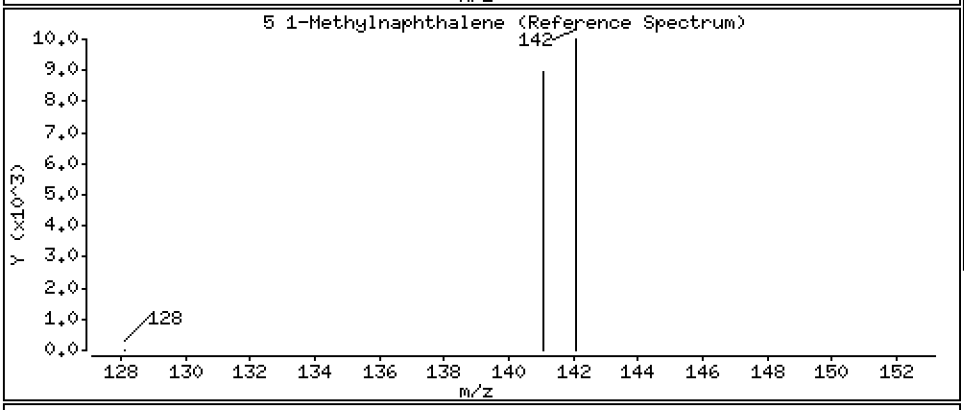
Concentration: 137 ng/mL

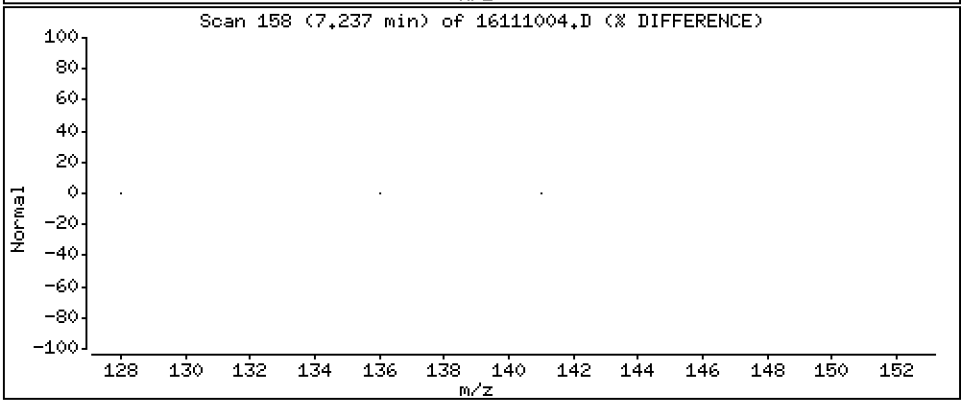












Data File: \\target\share\chem3\nt11.i\20161110.b\16111004.D

Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

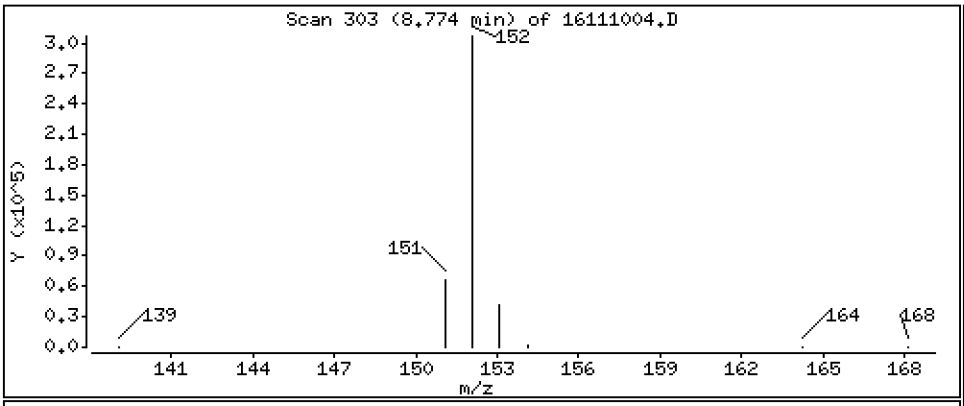
Operator: JW

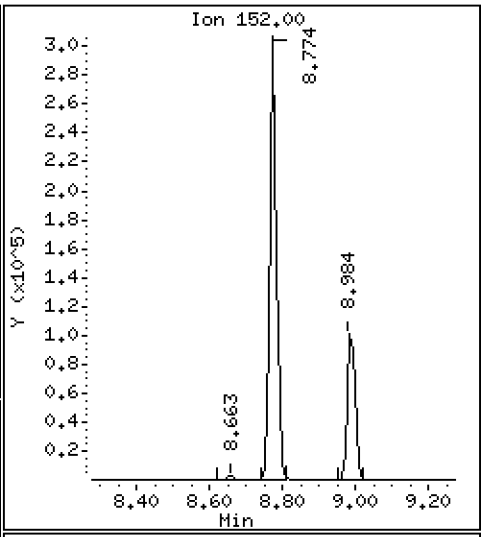
Column phase: Rxi-17Sil MS

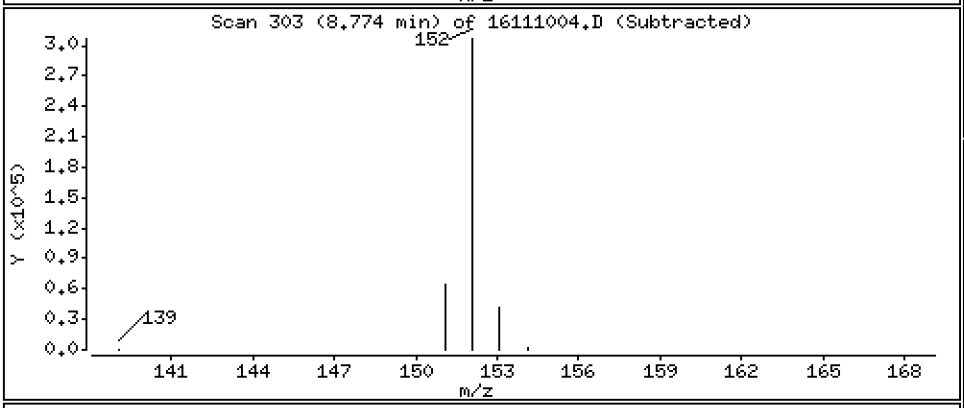
Column diameter: 0.25

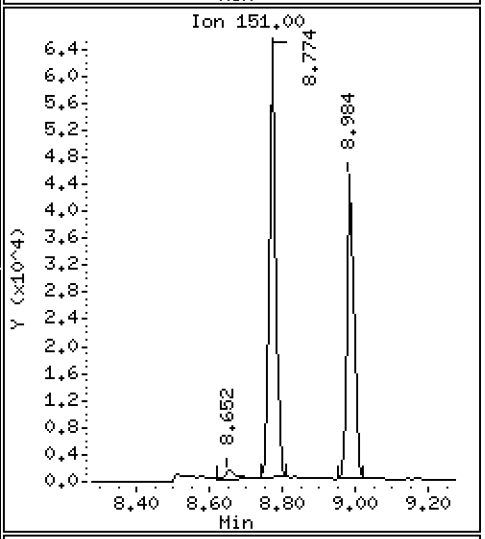
6 Acenaphthylene

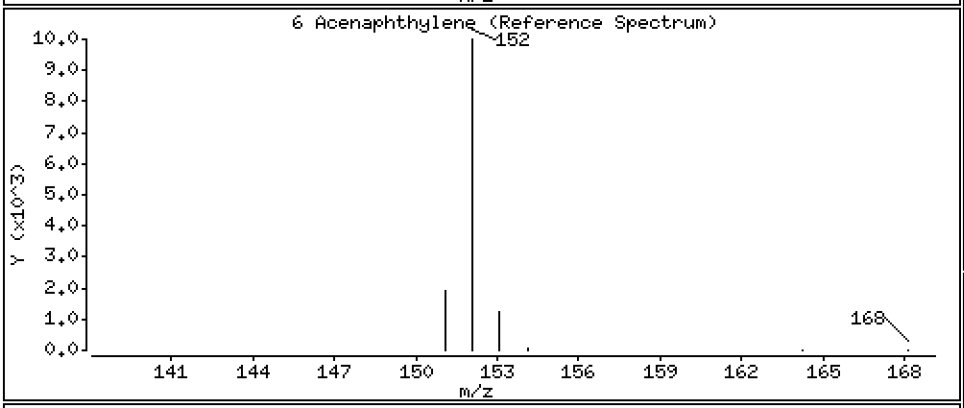
Concentration: 124 ng/mL

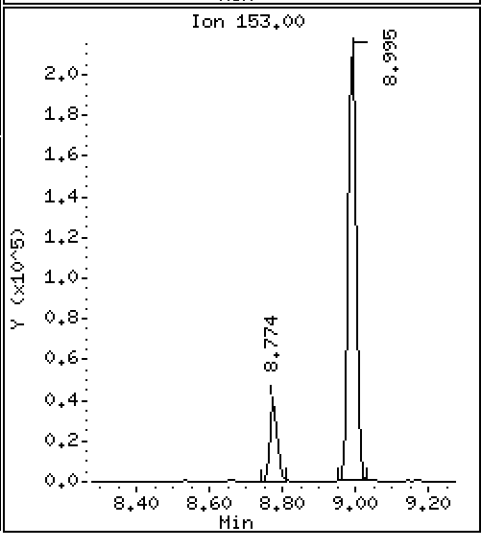


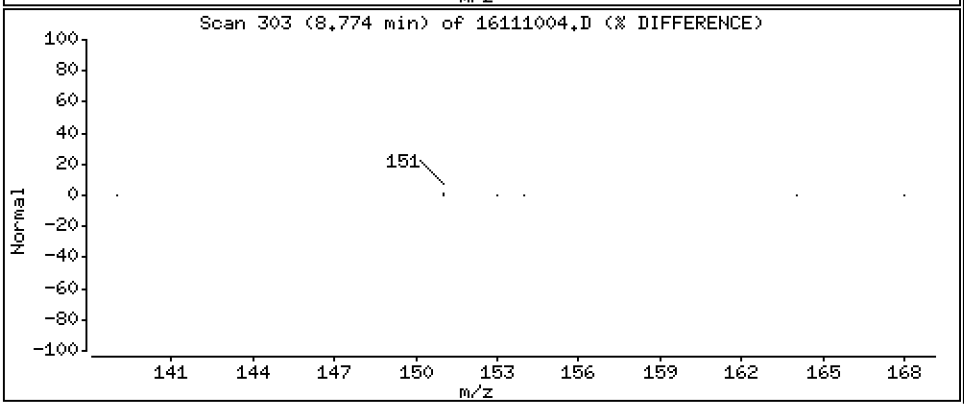












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Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

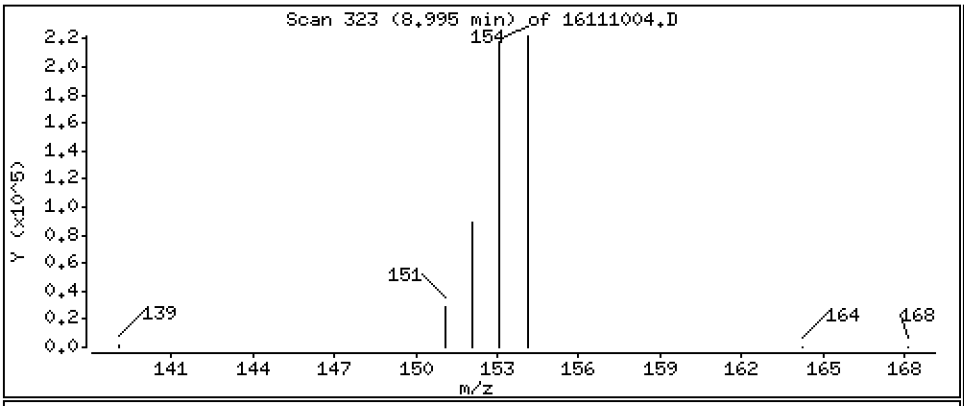
Operator: JW

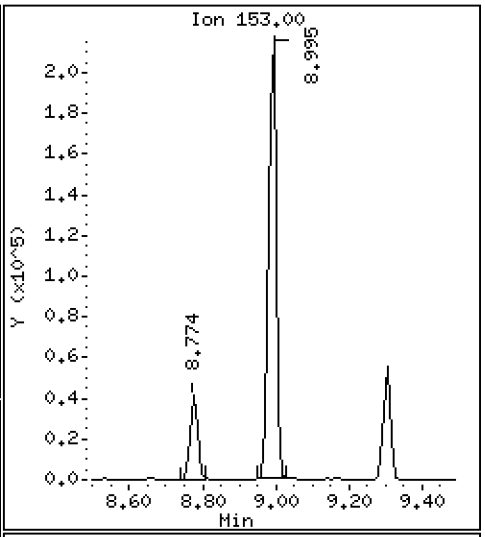
Column phase: Rxi-17Sil MS

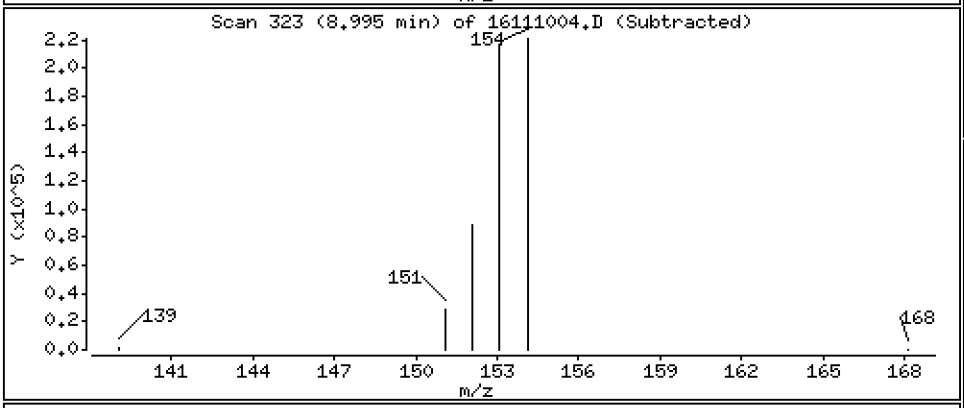
Column diameter: 0.25

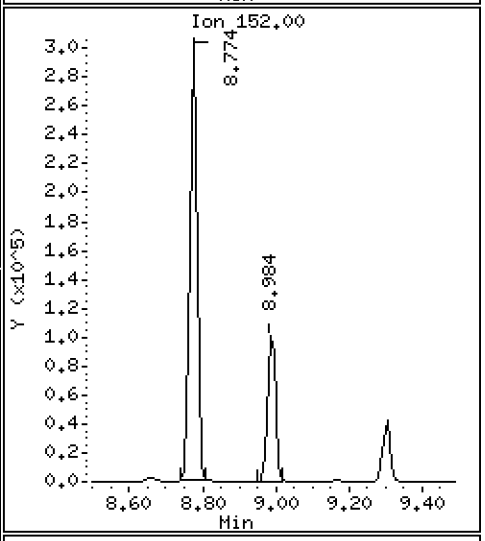
8 Acenaphthene

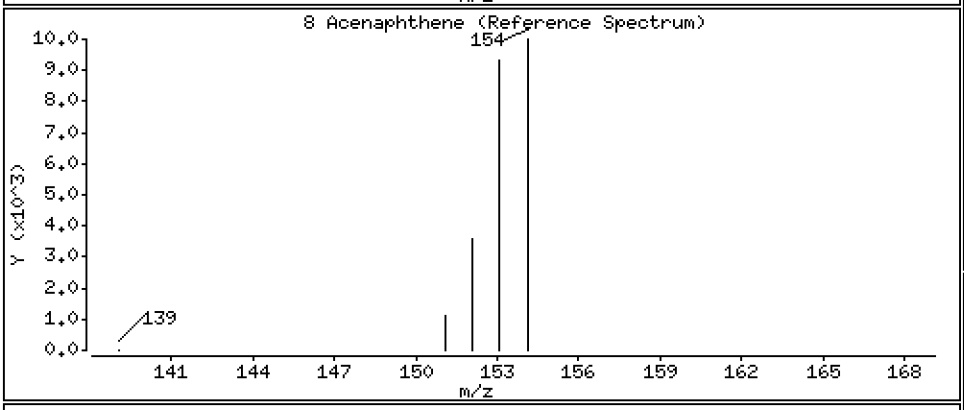
Concentration: 153 ng/mL

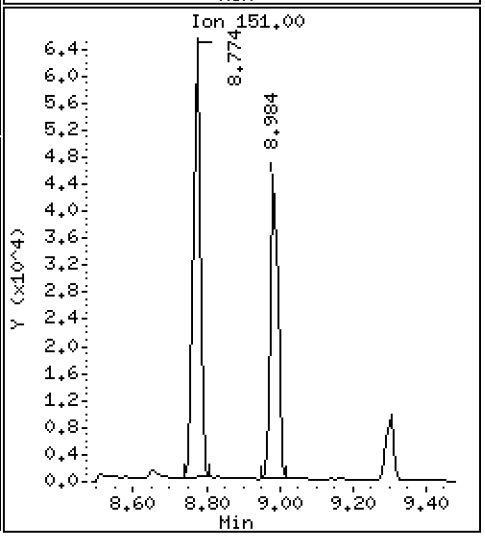


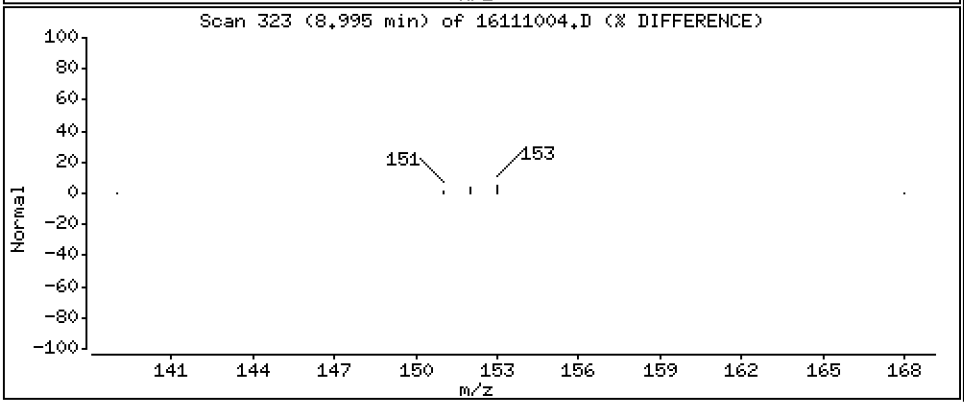












Data File: \\target\share\chem3\nt11.i\20161110.b\16111004.D

Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

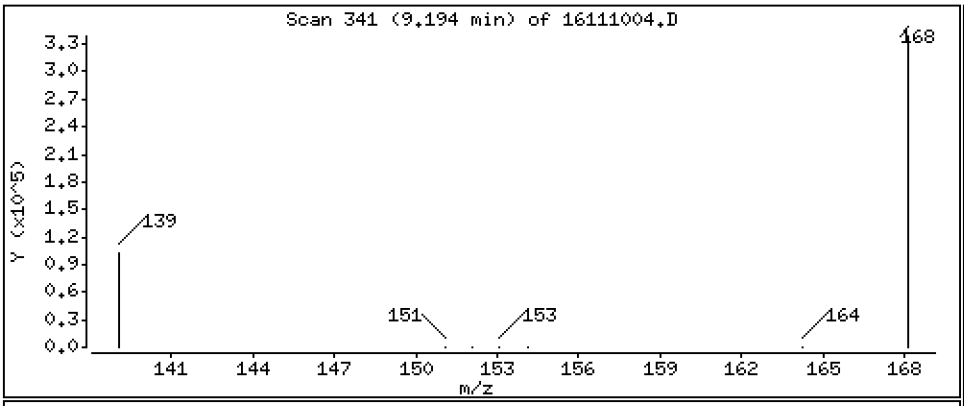
Operator: JW

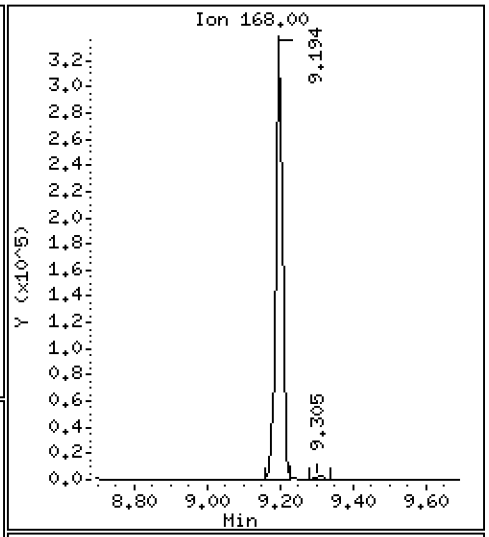
Column phase: Rxi-17Sil MS

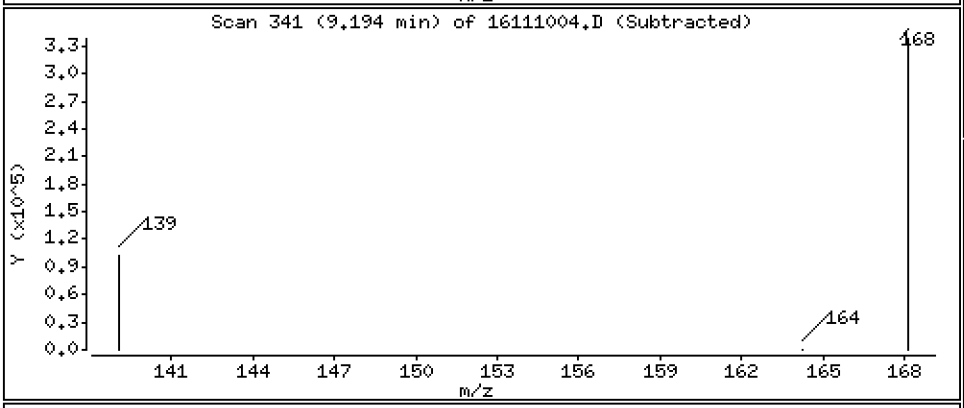
Column diameter: 0.25

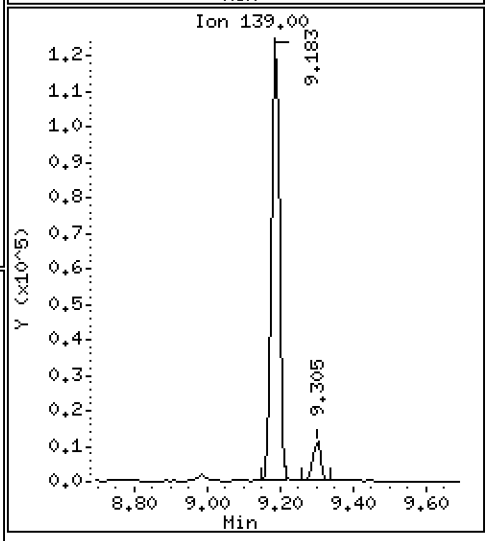
9 Dibenzofuran

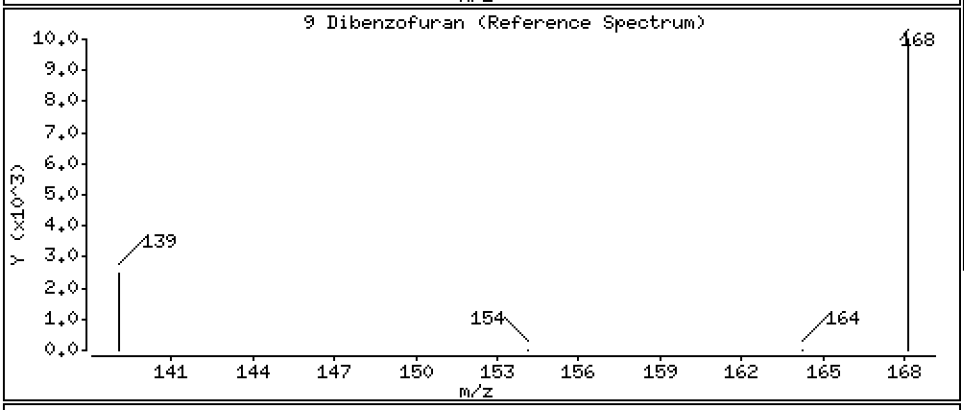
Concentration: 157 ng/mL

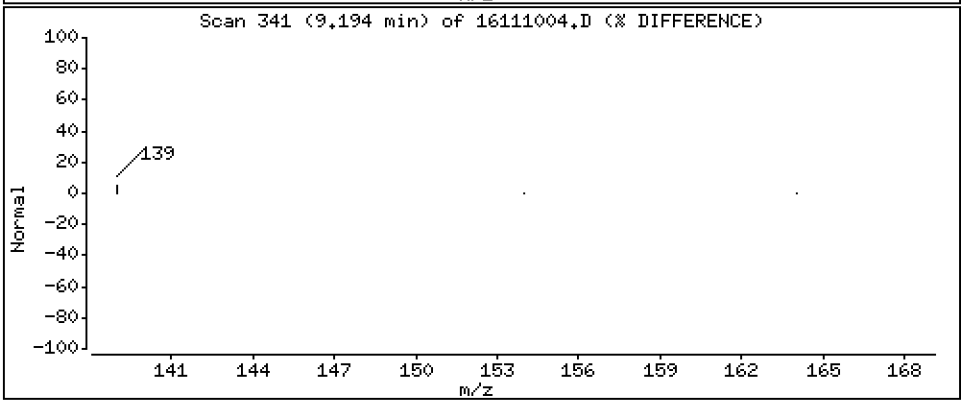












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Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

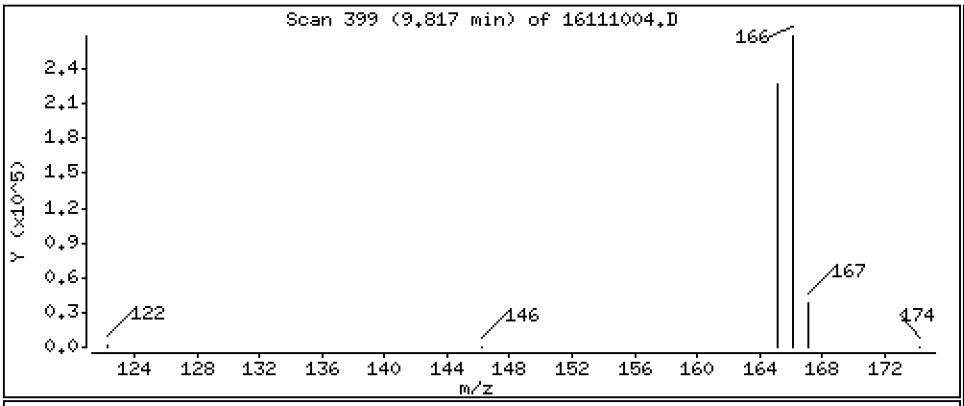
Operator: JW

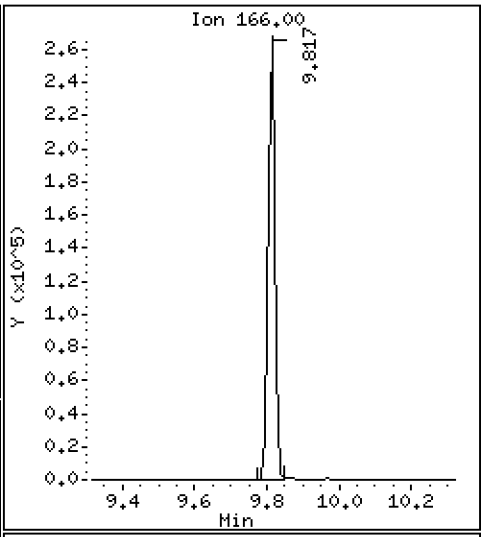
Column phase: Rxi-17Sil MS

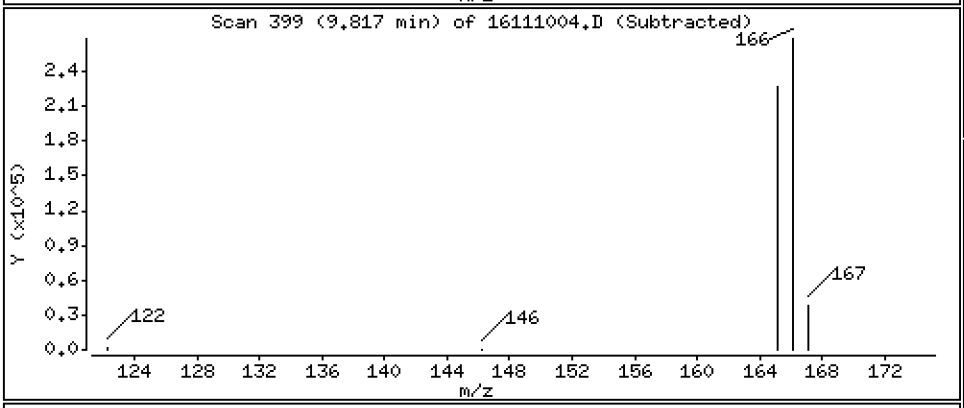
Column diameter: 0.25

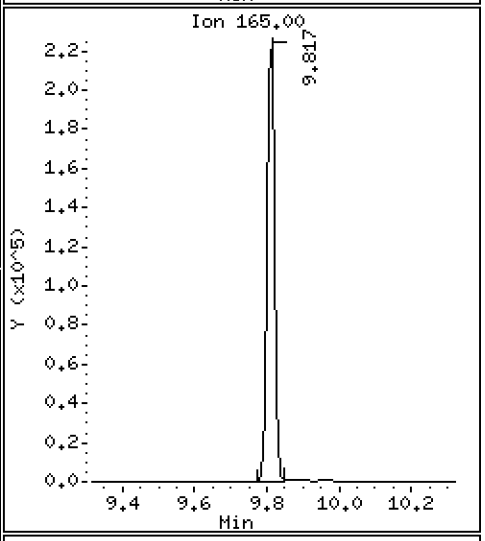
11 Fluorene

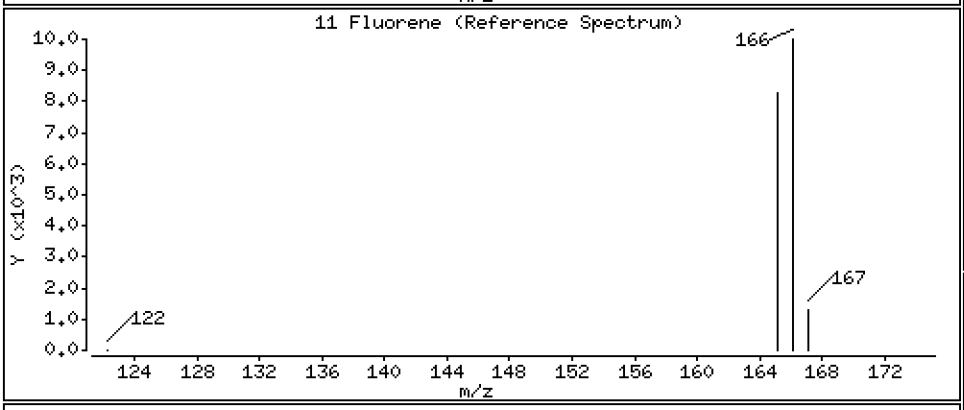
Concentration: 156 ng/mL

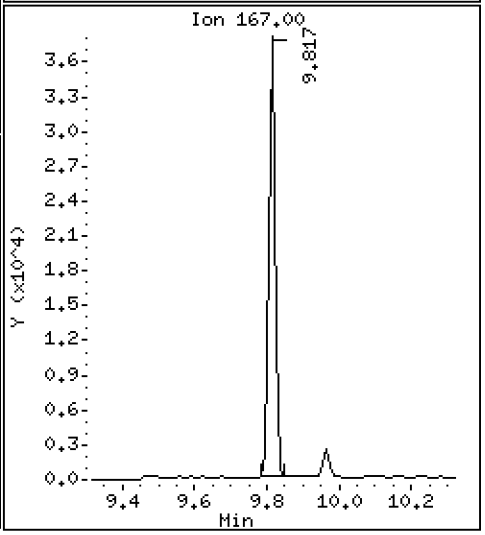


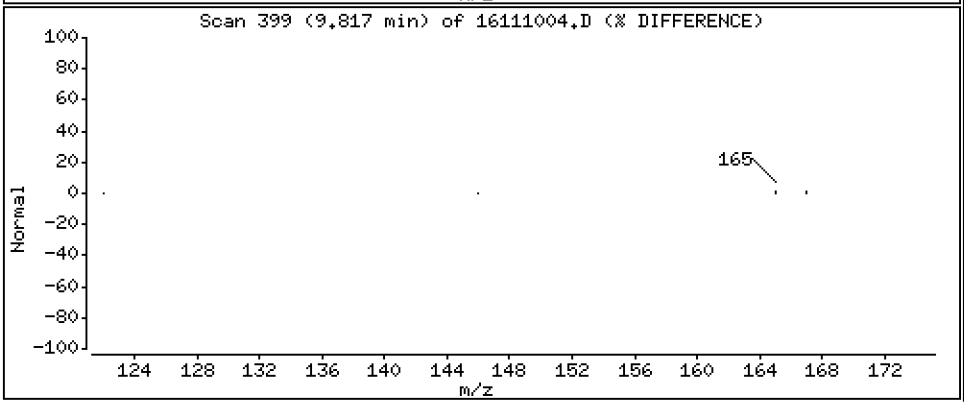












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Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

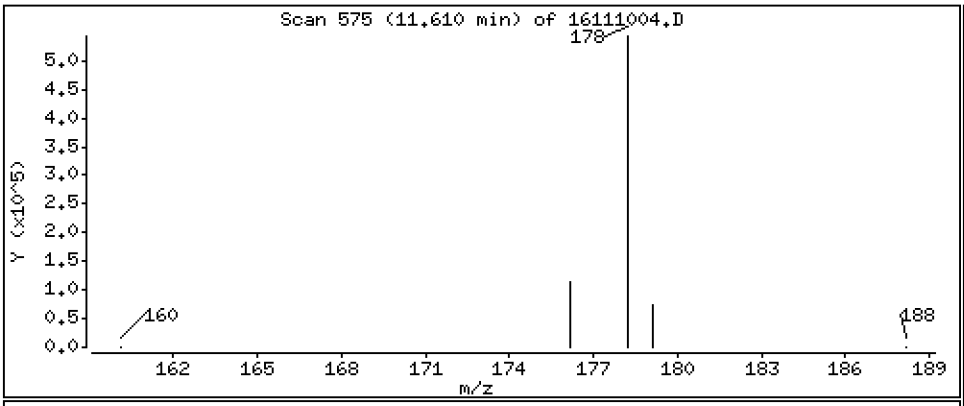
Operator: JW

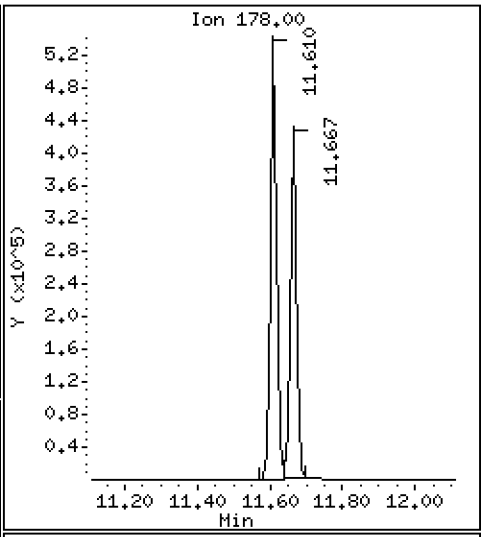
Column phase: Rxi-17Sil MS

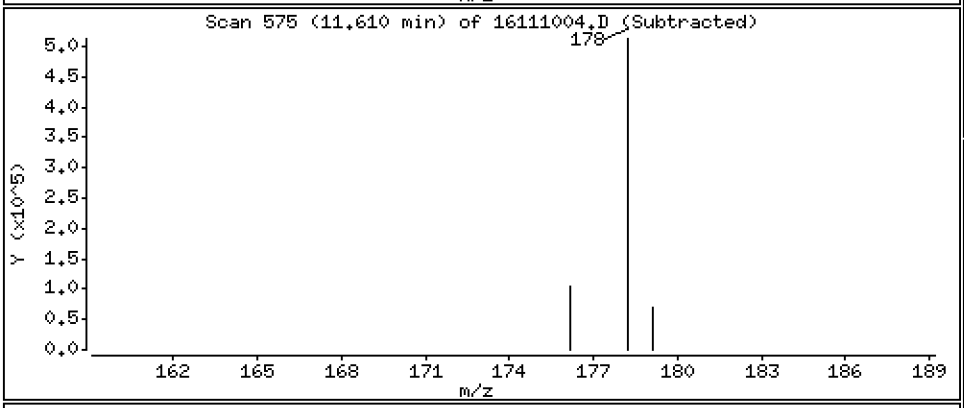
Column diameter: 0.25

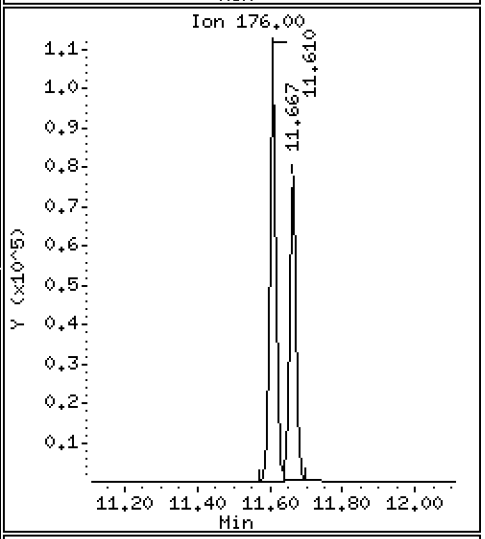
13 Phenanthrene

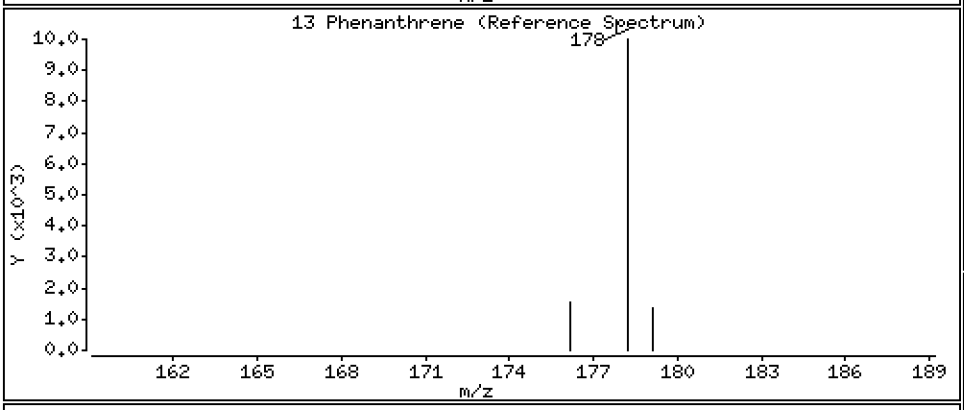
Concentration: 187 ng/mL

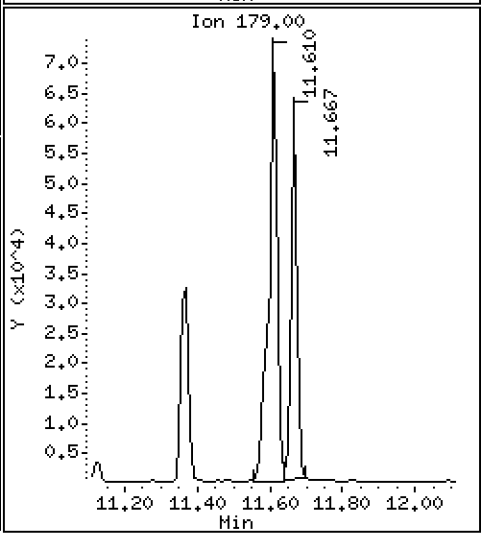


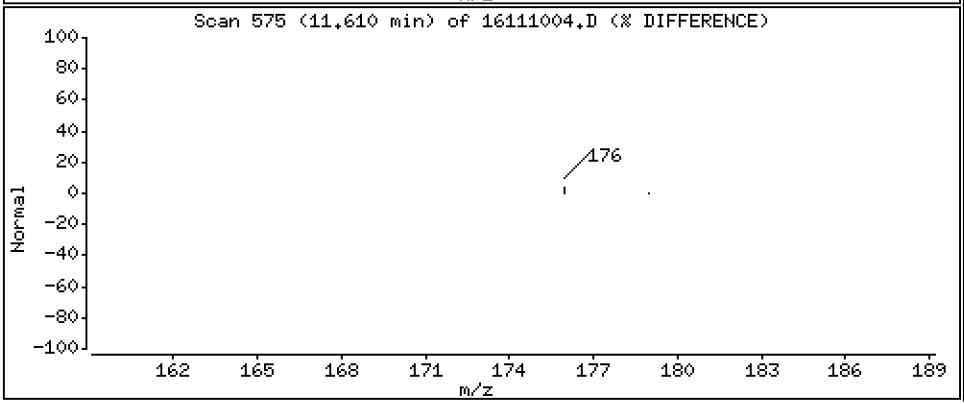












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Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

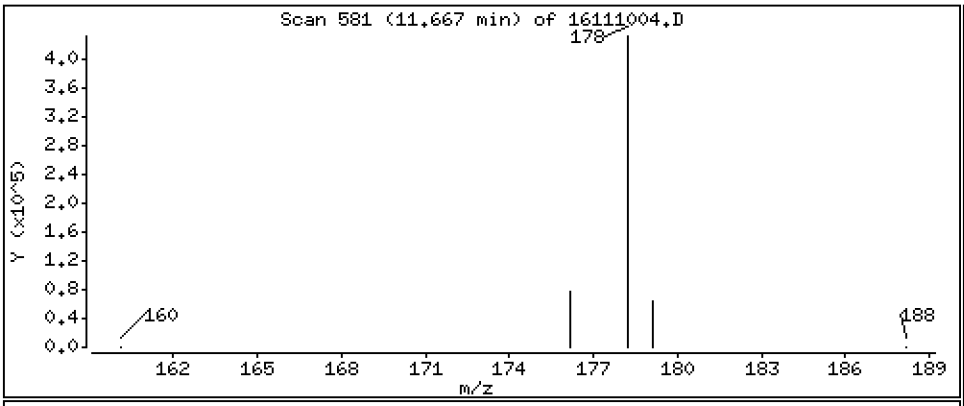
Operator: JW

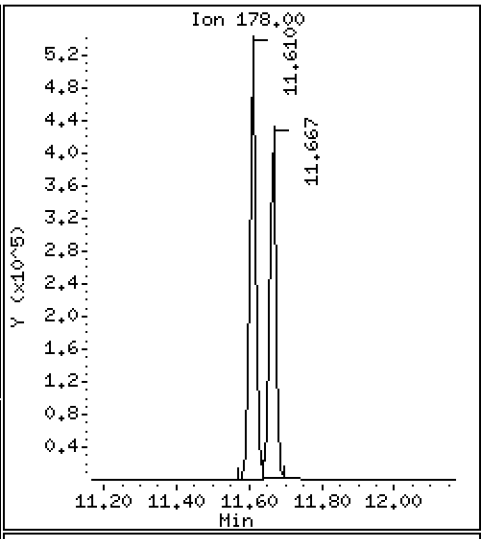
Column phase: Rxi-17Sil MS

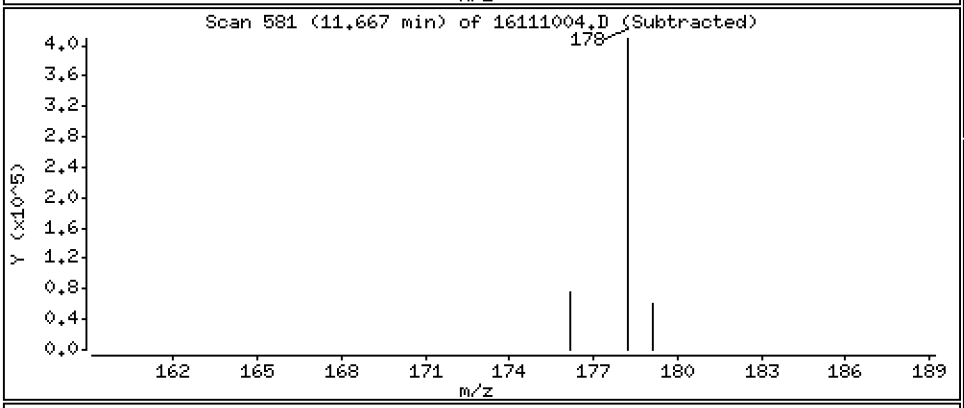
Column diameter: 0.25

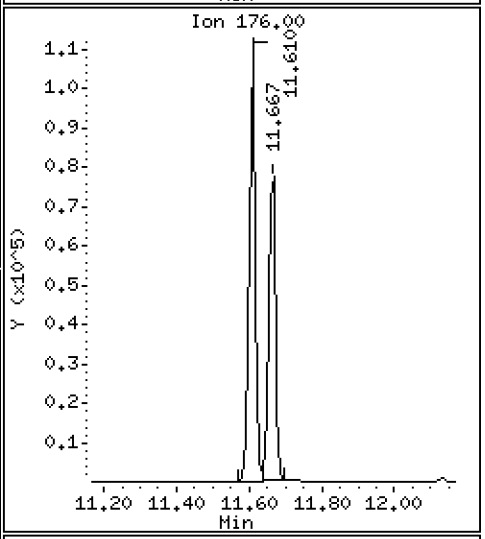
15 Anthracene

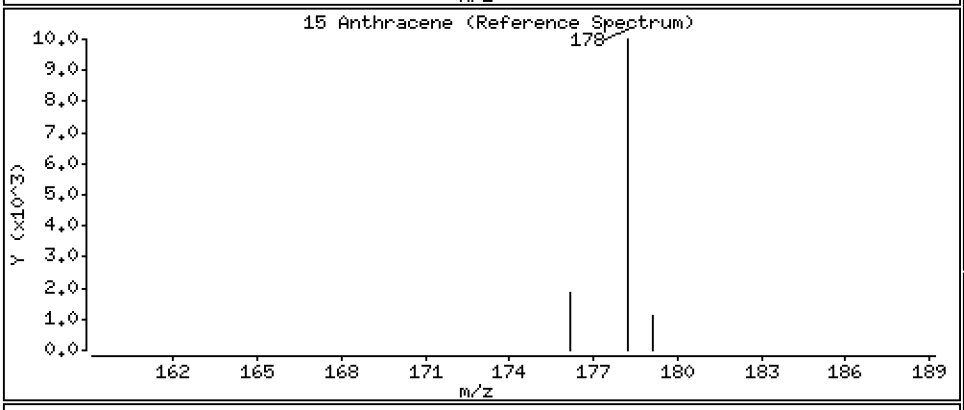
Concentration: 156 ng/mL

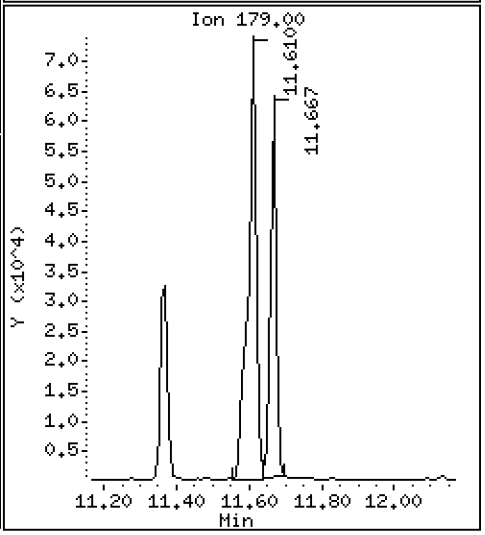


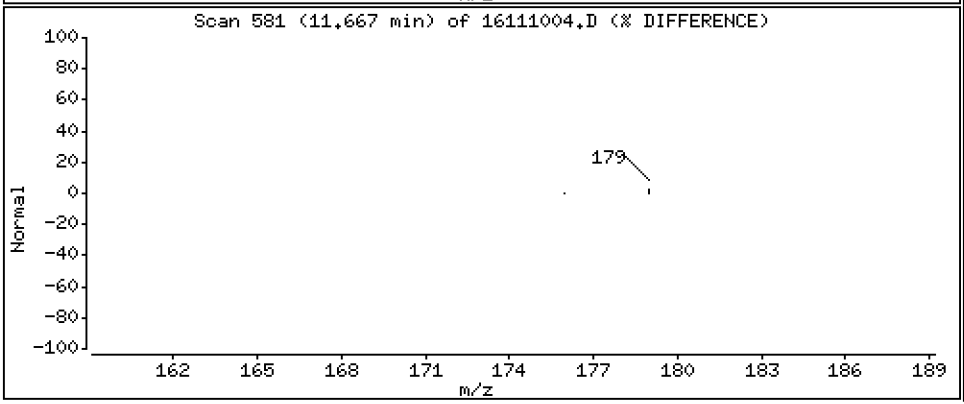












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Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

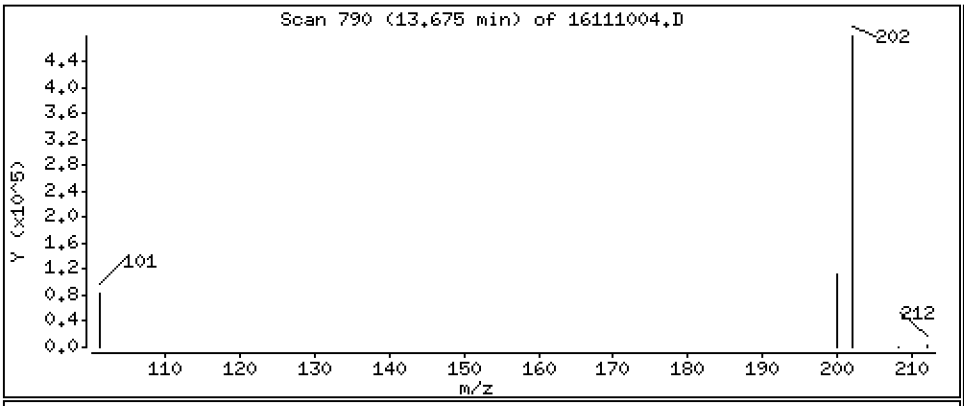
Operator: JW

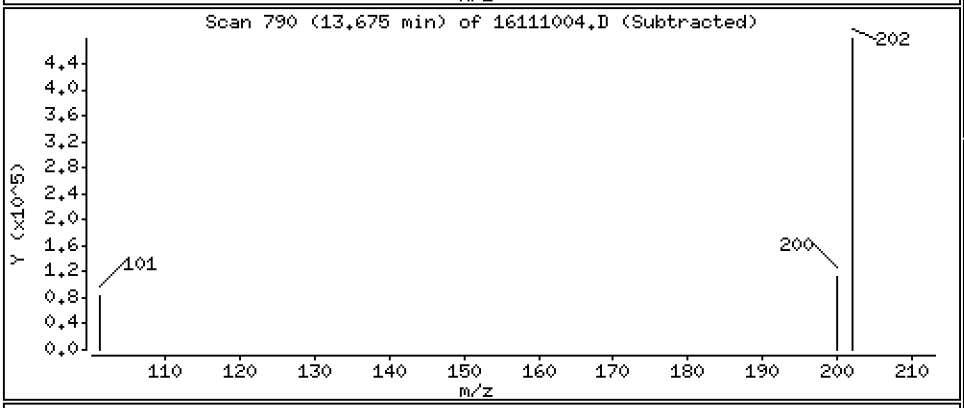
Column phase: Rxi-17Sil MS

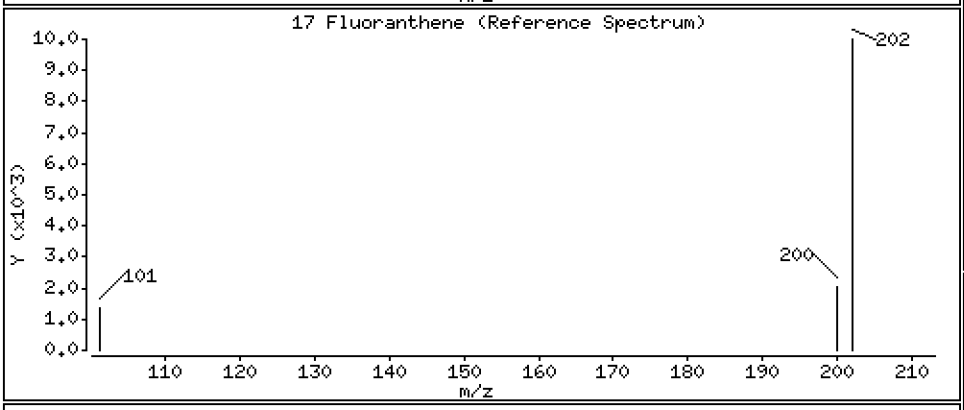
Column diameter: 0.25

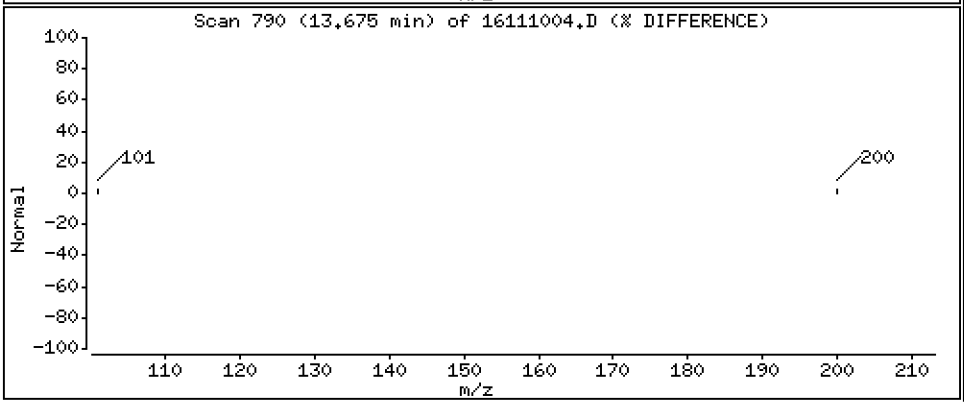
17 Fluoranthene

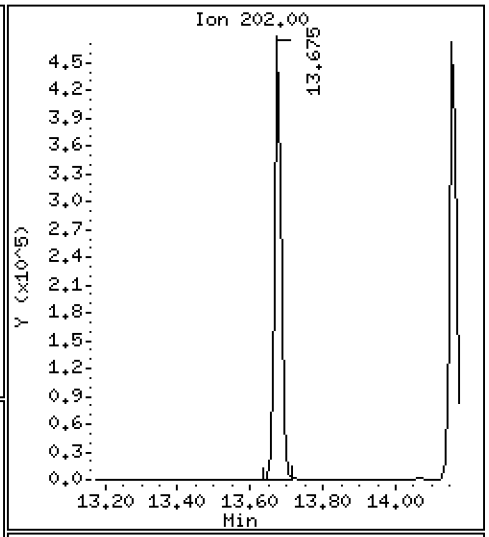
Concentration: 206 ng/mL

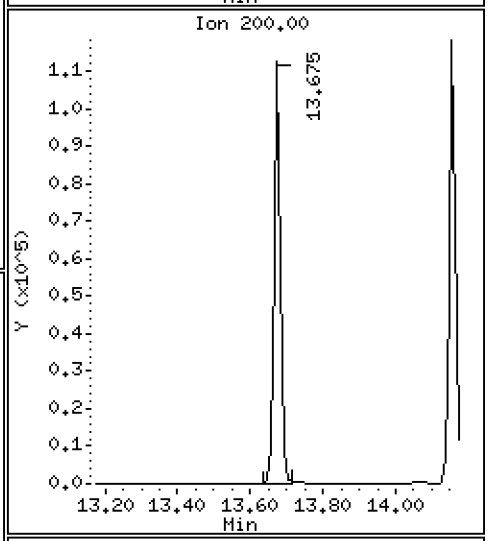


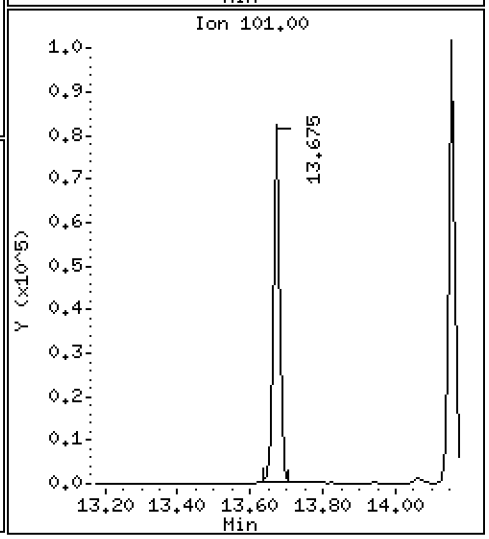












Data File: \\target\share\chem3\nt11.i\20161110.b\16111004.D

Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

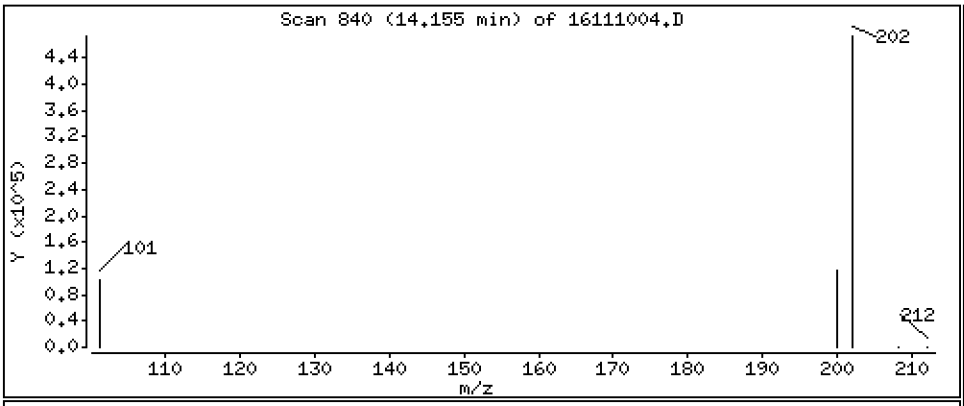
Operator: JW

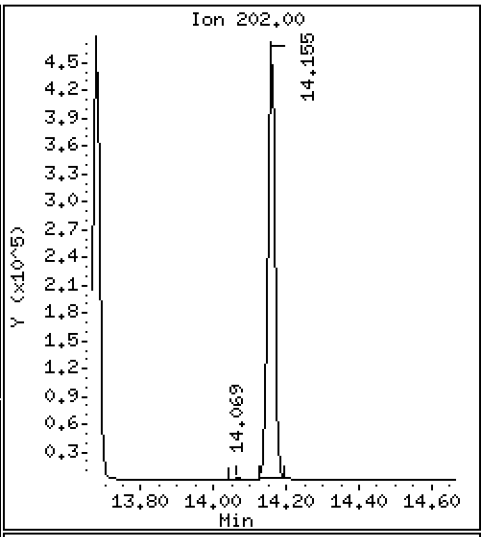
Column phase: Rxi-17Sil MS

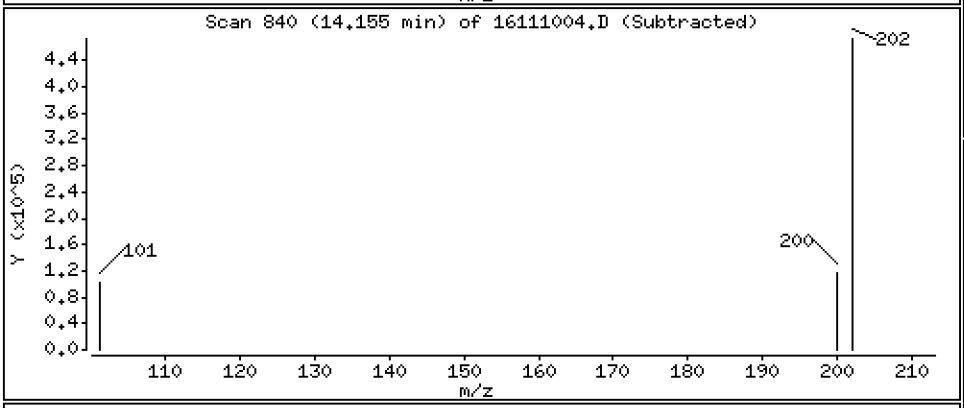
Column diameter: 0.25

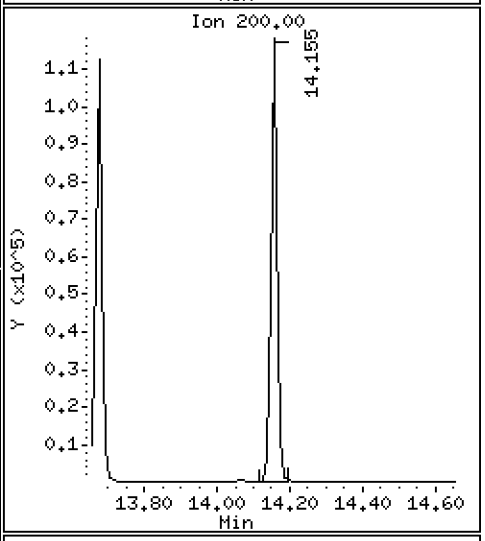
18 Pyrene

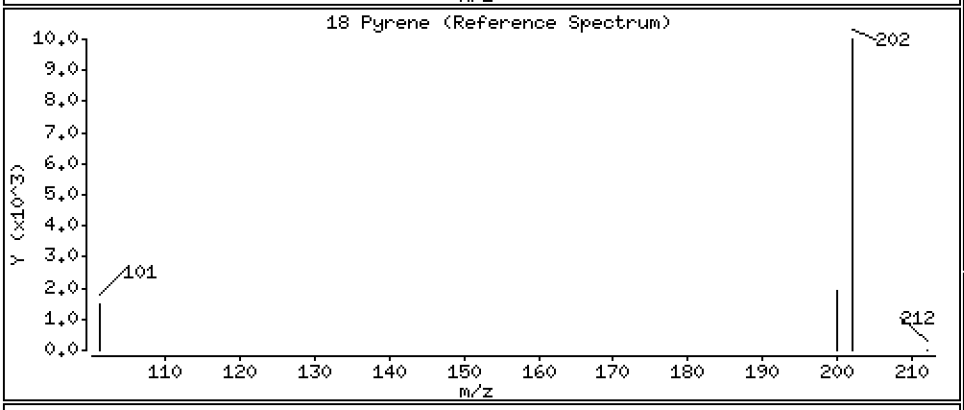
Concentration: 216 ng/mL

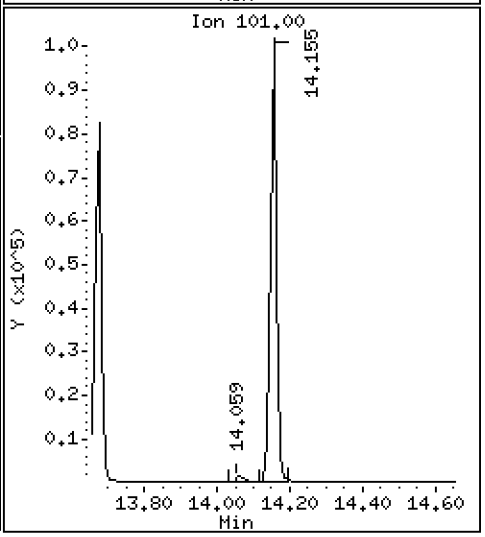


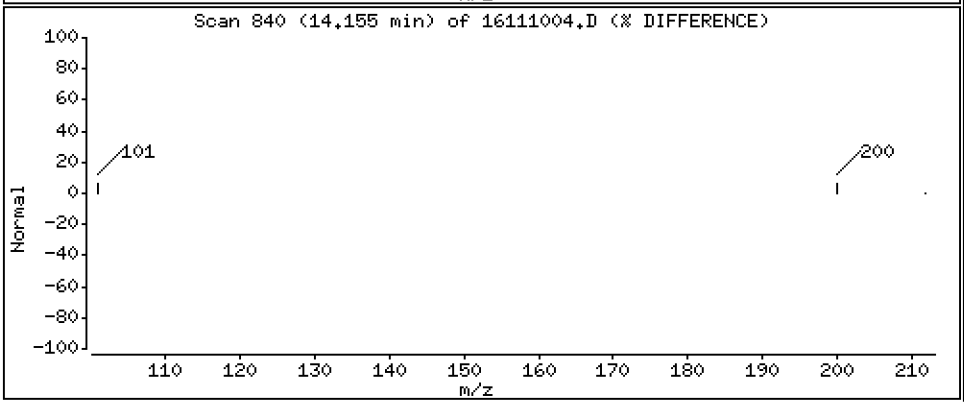












Data File: \\target\share\chem3\nt11.i\20161110.b\16111004.D

Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

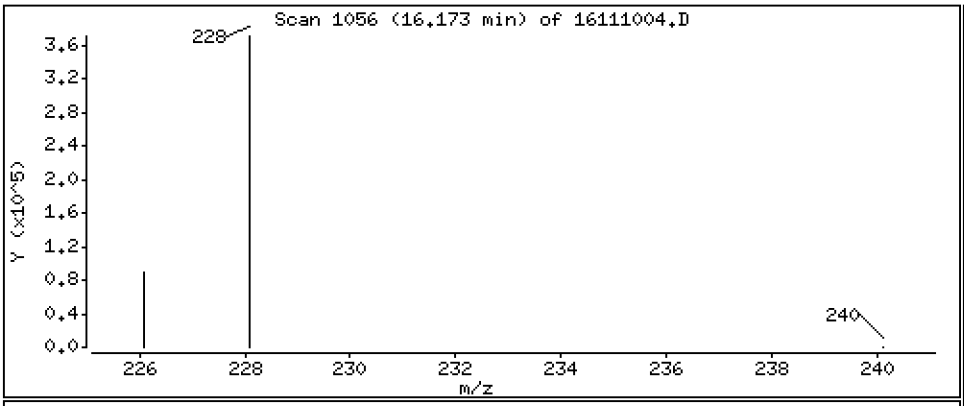
Operator: JW

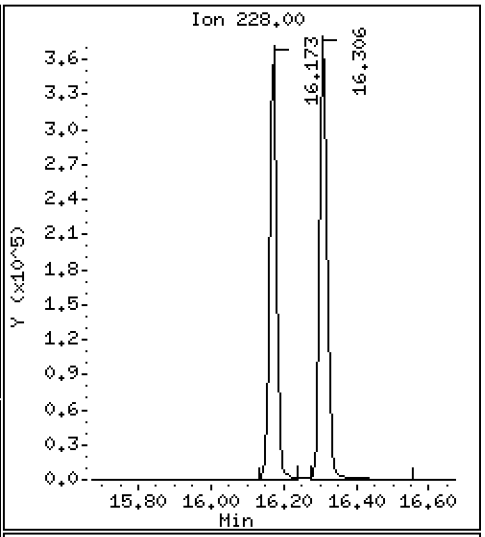
Column phase: Rxi-17Sil MS

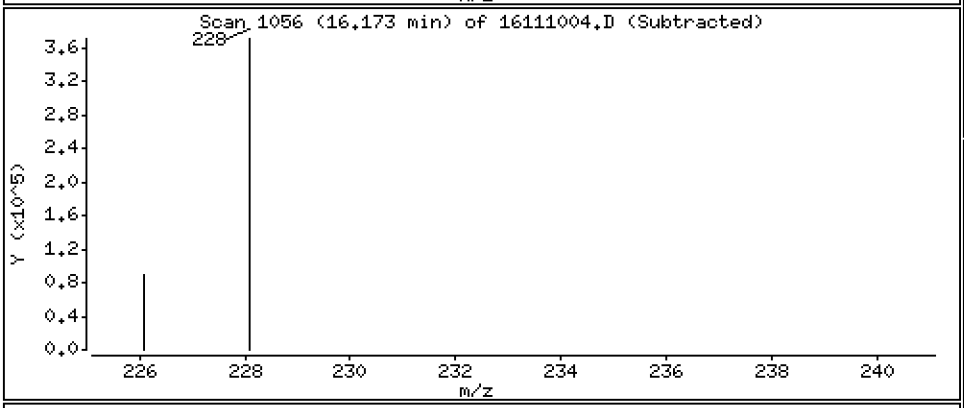
Column diameter: 0.25

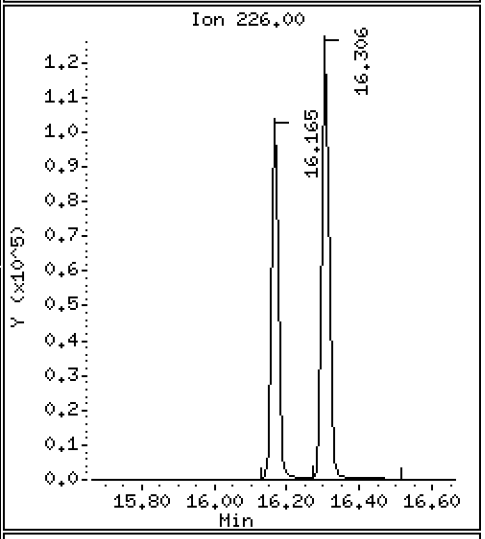
19 Benzo(a)anthracene

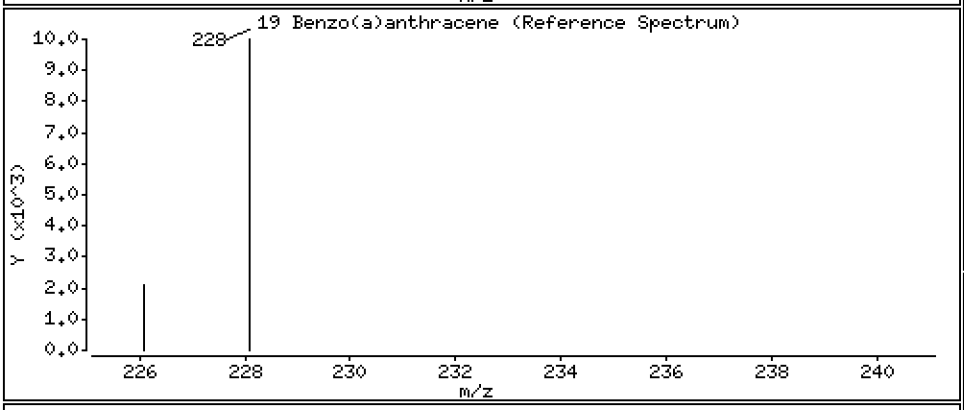
Concentration: 205 ng/mL

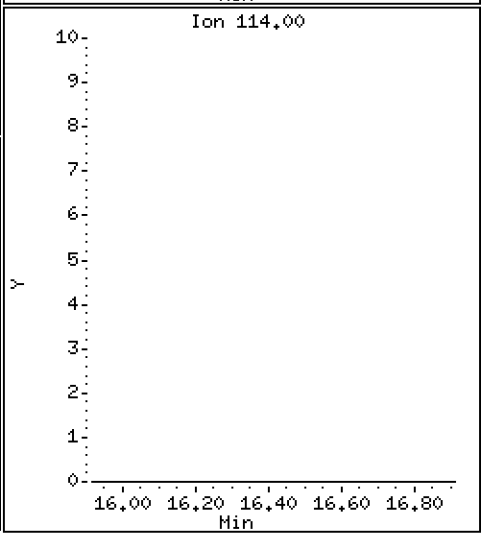


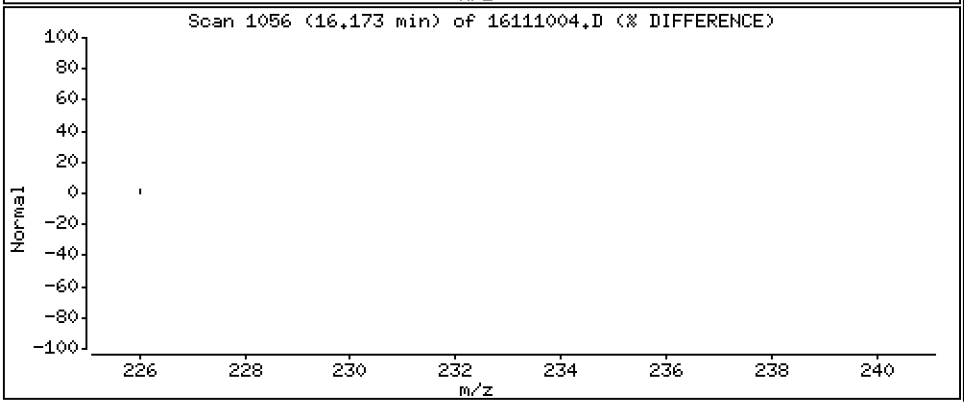












Data File: \\target\share\chem3\nt11.i\20161110.b\16111004.D

Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

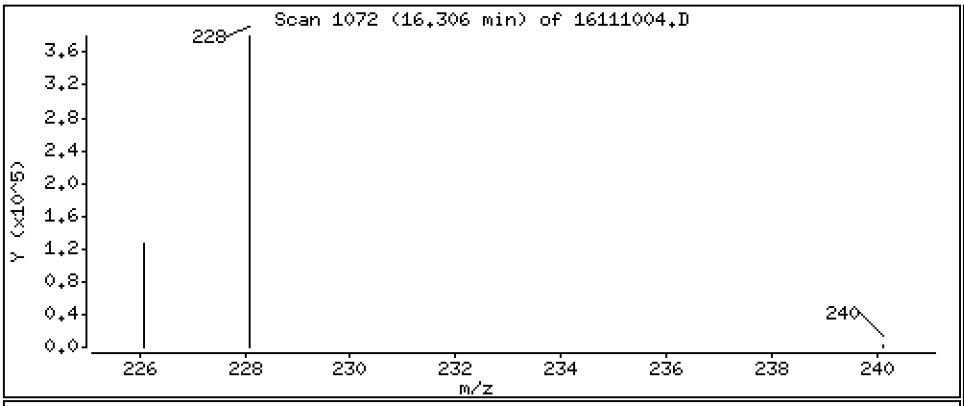
Operator: JW

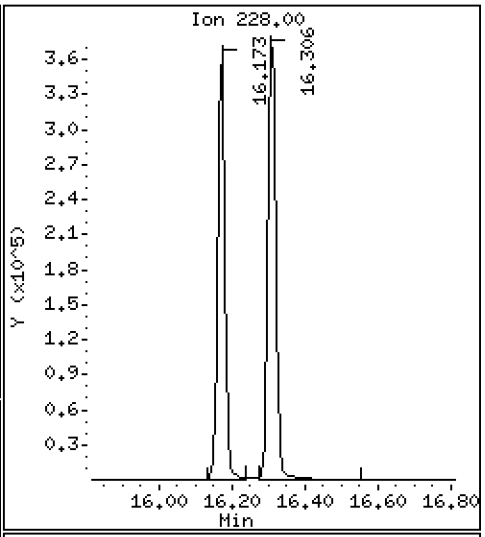
Column phase: Rxi-17Sil MS

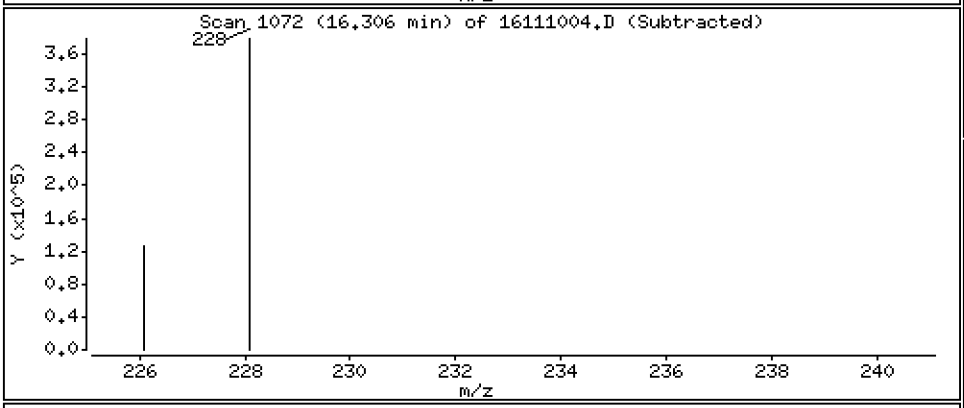
Column diameter: 0.25

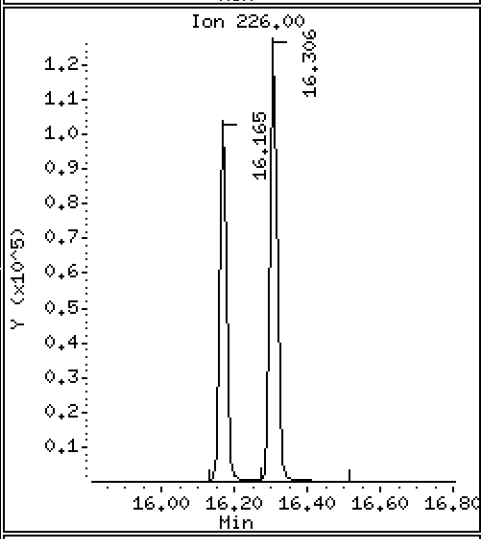
21 Chrysene

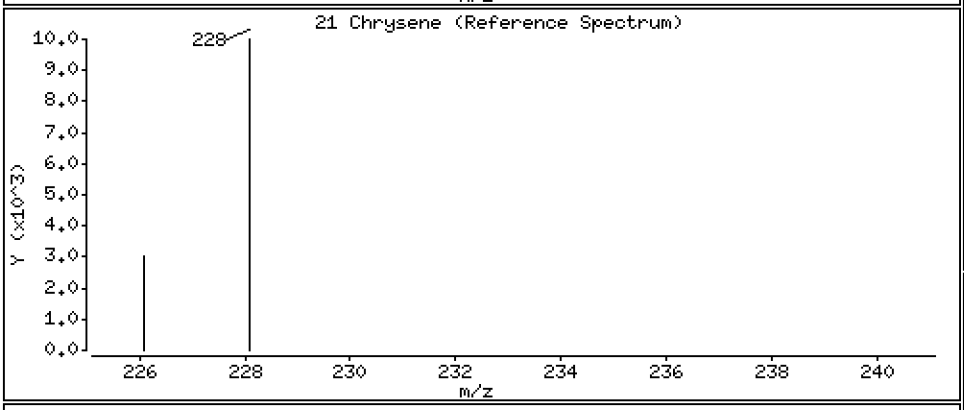
Concentration: 212 ng/mL

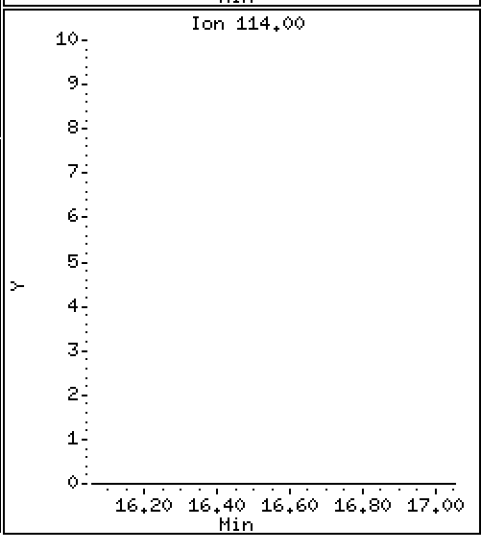


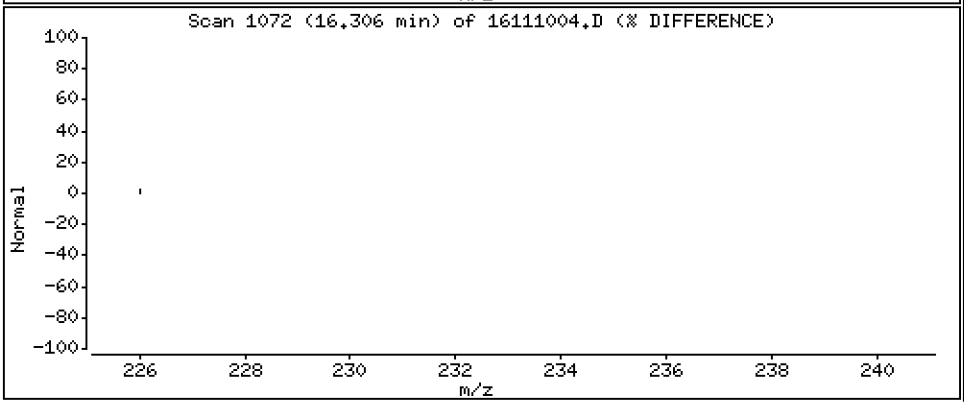












Data File: \\target\share\chem3\nt11.i\20161110.b\16111004.D

Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

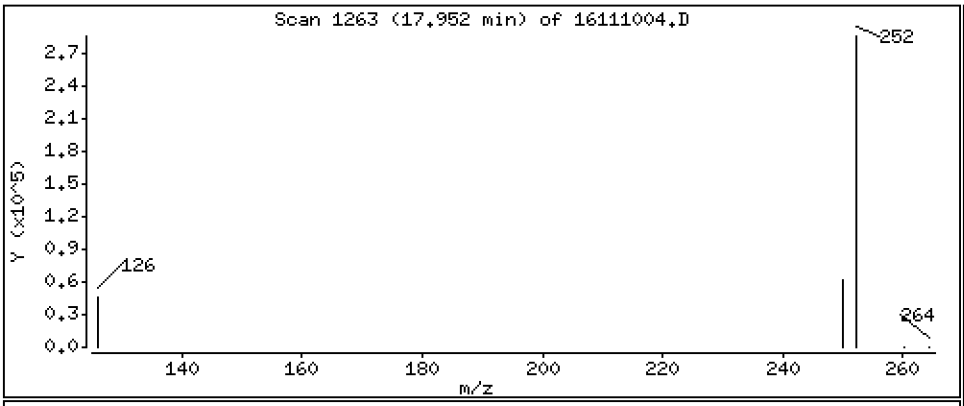
Operator: JW

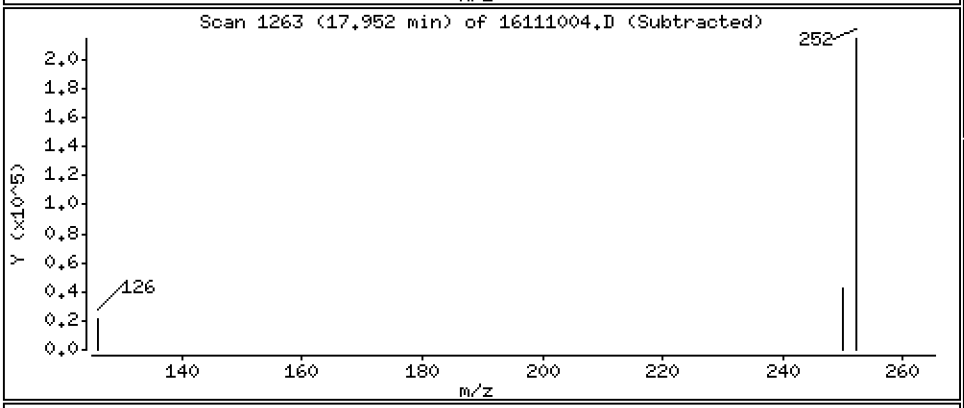
Column phase: Rxi-17Sil MS

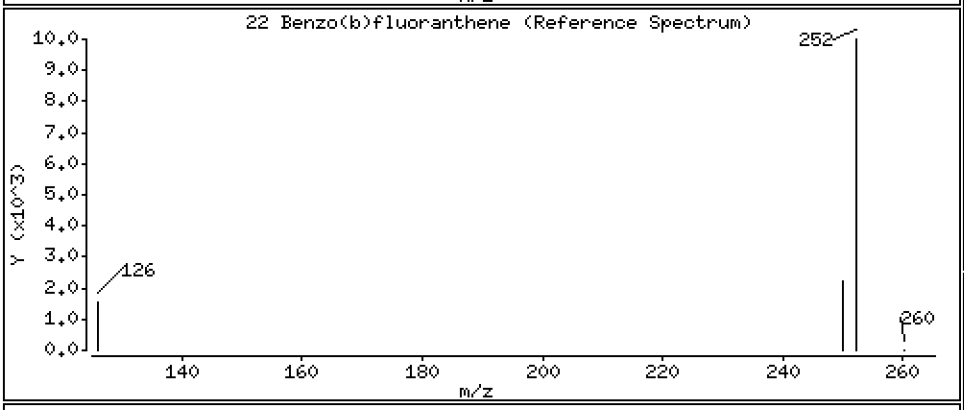
Column diameter: 0.25

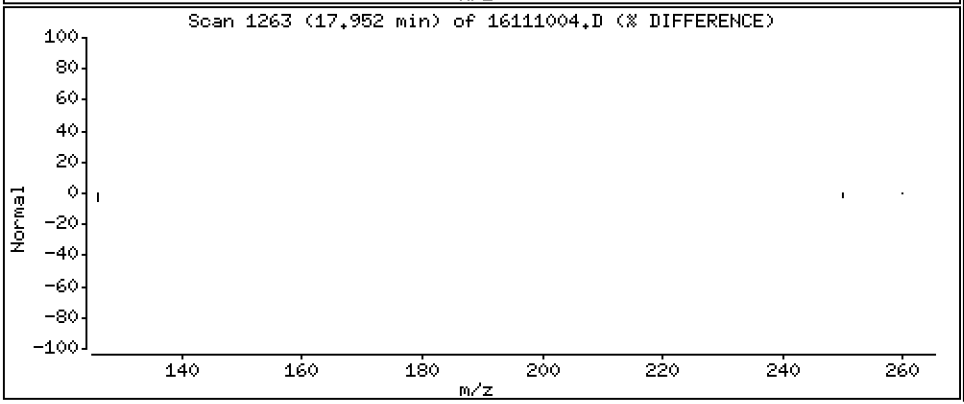
22 Benzo(b)fluoranthene

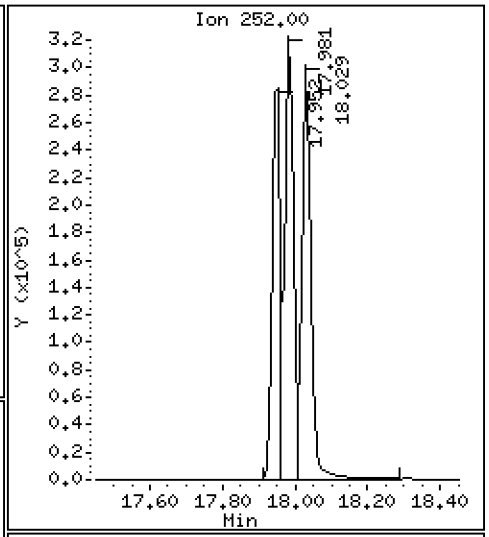
Concentration: 202 ng/mL

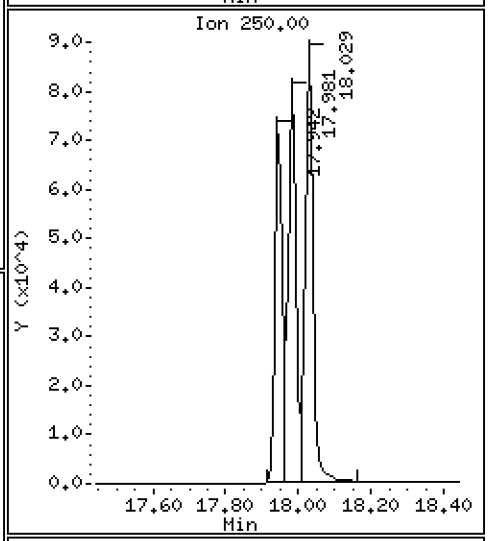


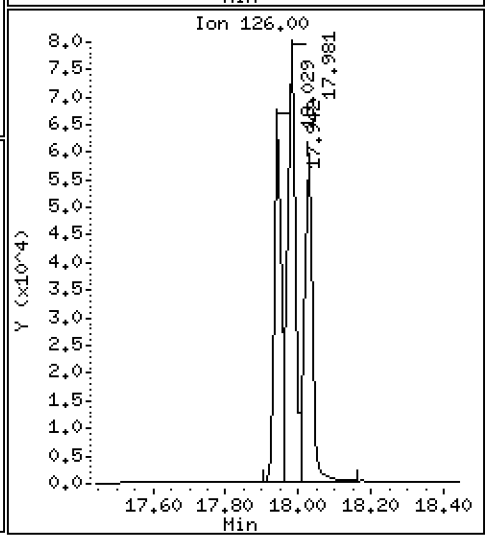












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Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

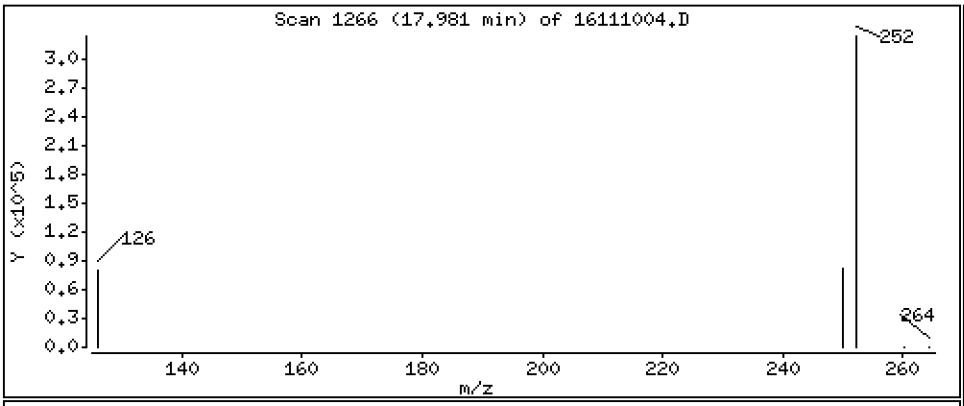
Operator: JW

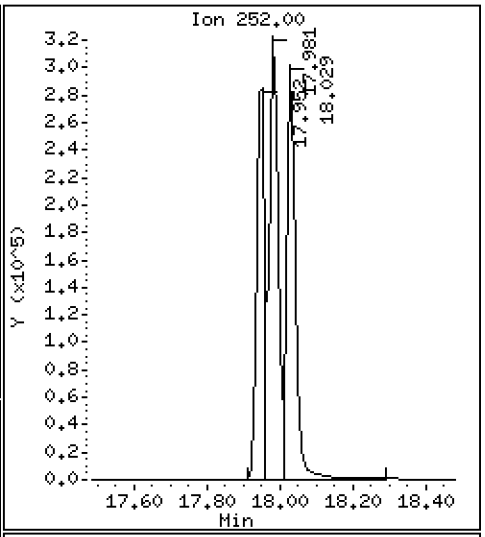
Column phase: Rxi-17Sil MS

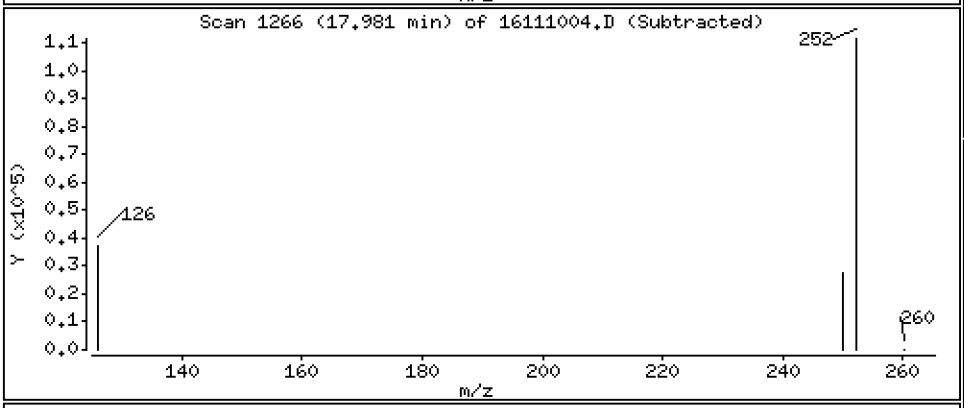
Column diameter: 0.25

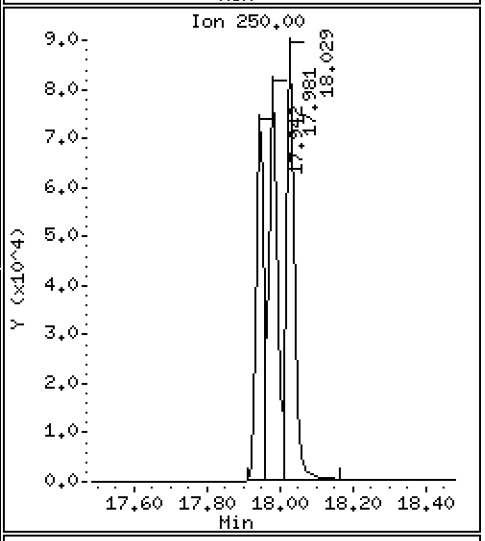
23 Benzo(k)fluoranthene

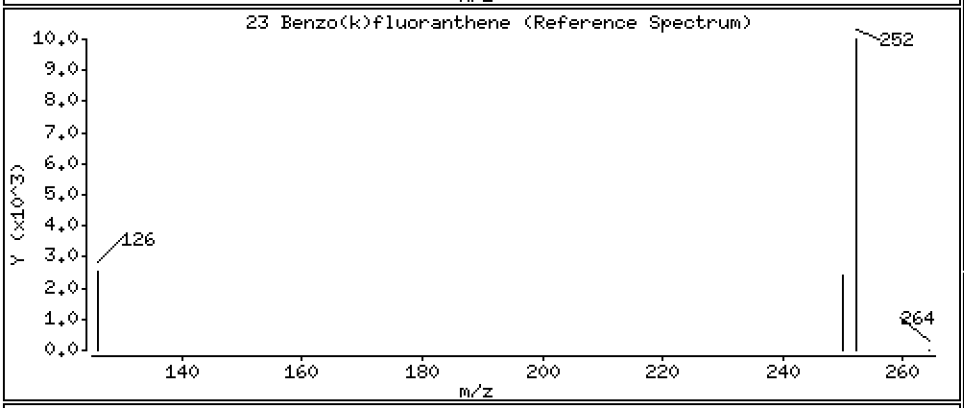
Concentration: 232 ng/mL

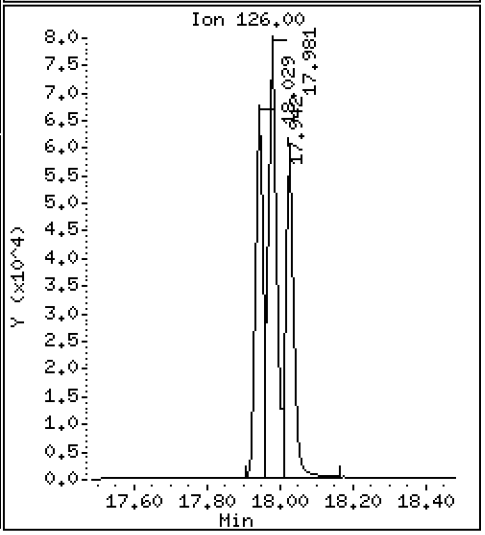


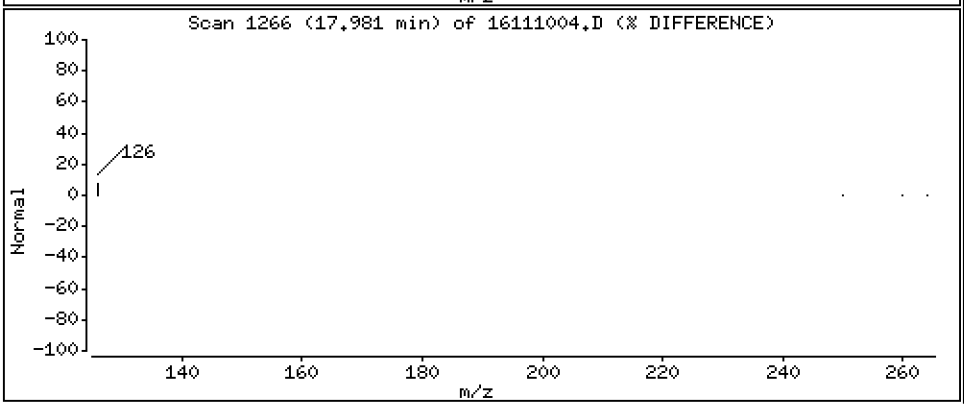












Data File: \\target\share\chem3\nt11.i\20161110.b\16111004.D

Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

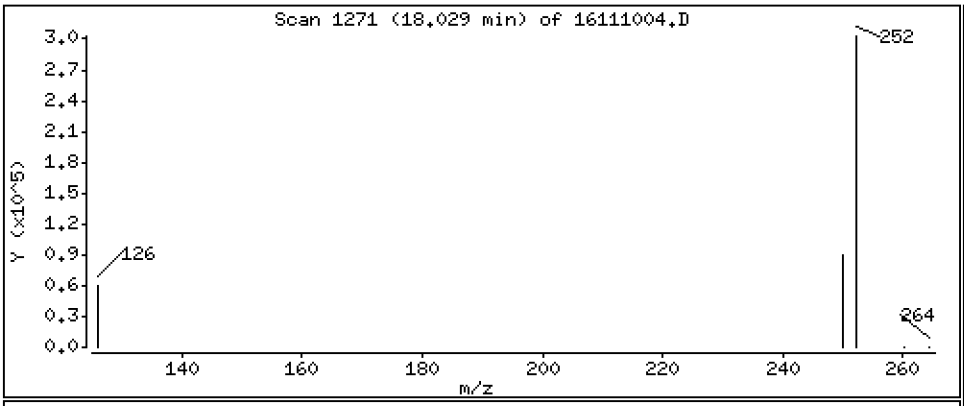
Operator: JW

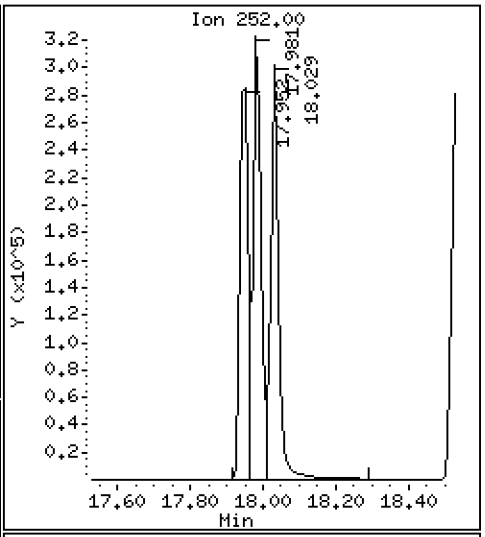
Column phase: Rxi-17Sil MS

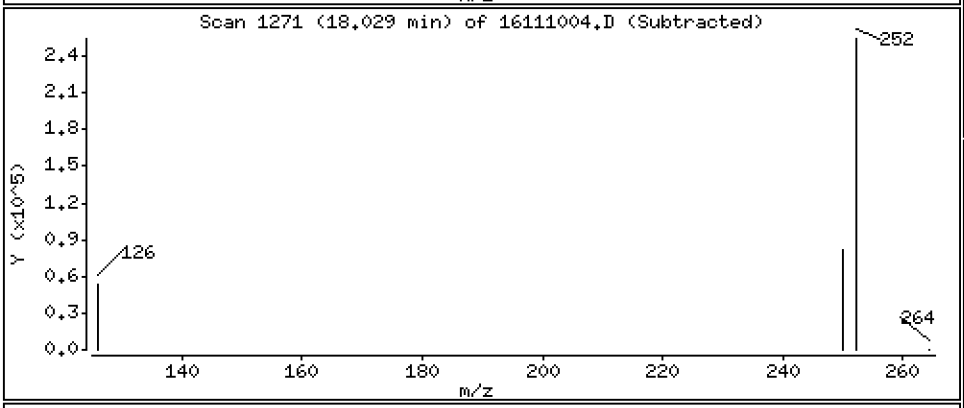
Column diameter: 0.25

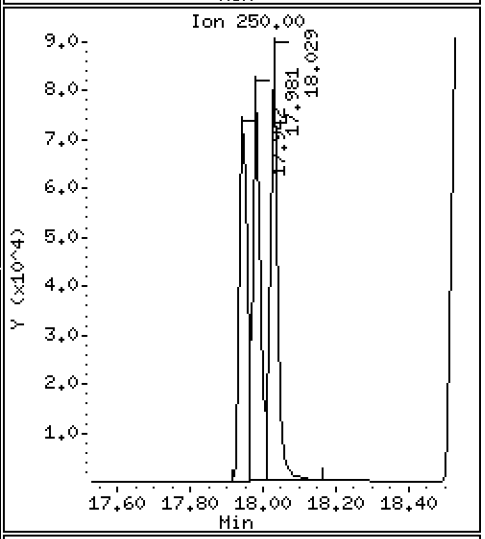
24 Benzo(j)fluoranthene

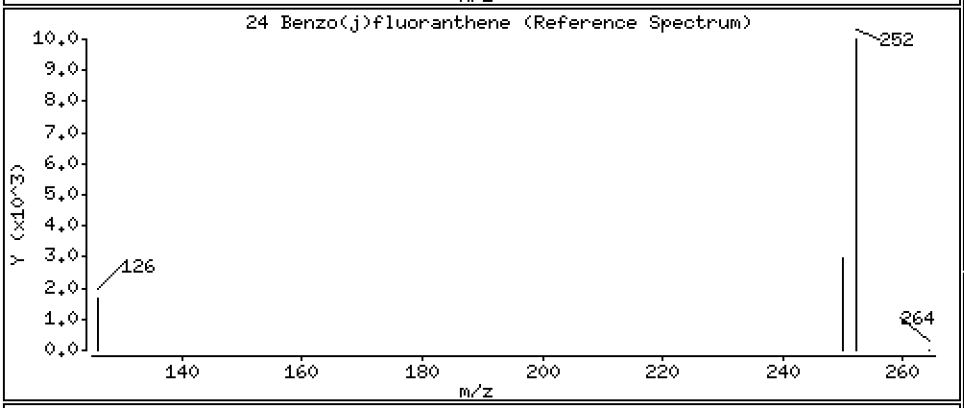
Concentration: 225 ng/mL

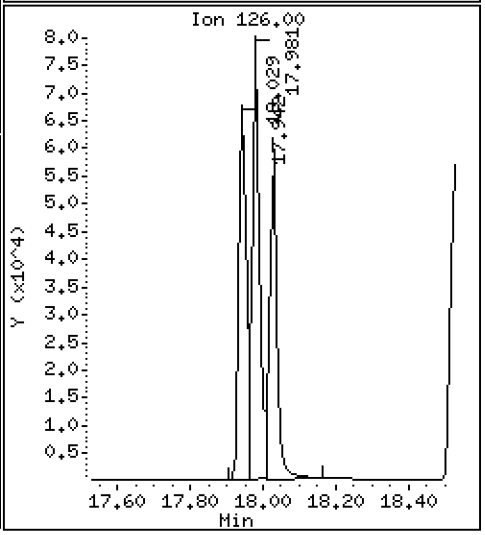


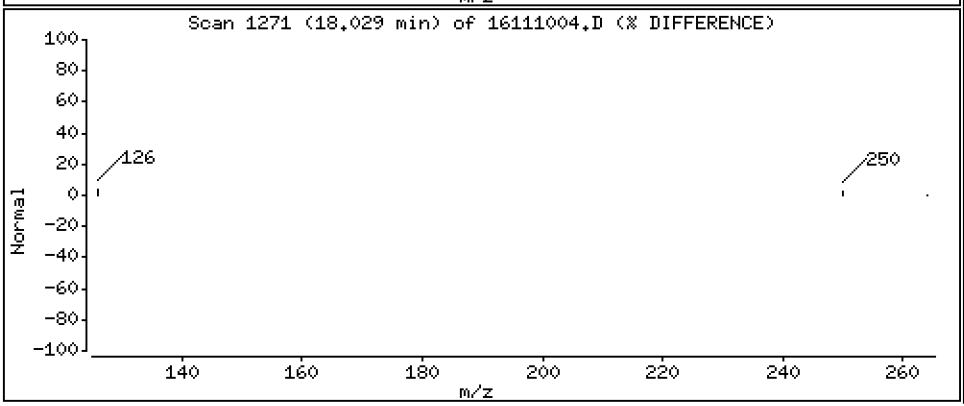












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Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

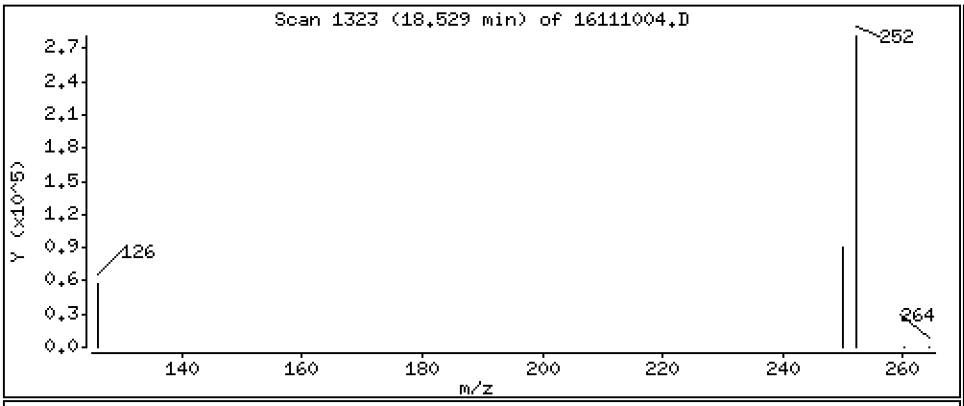
Operator: JW

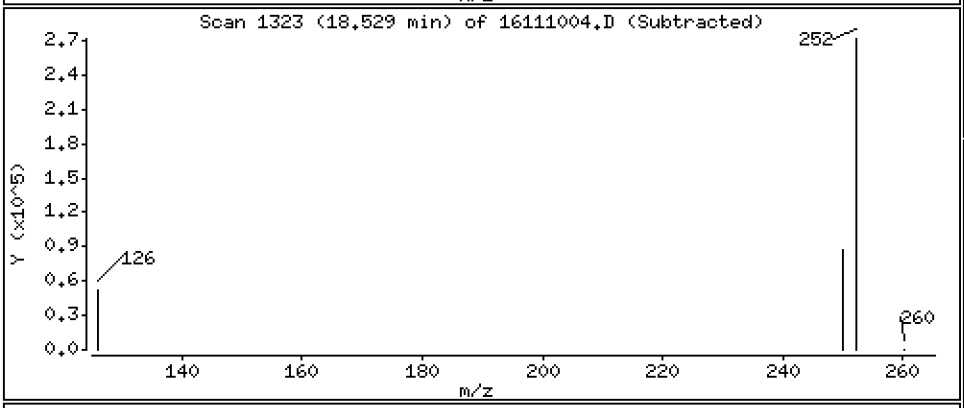
Column phase: Rxi-17Sil MS

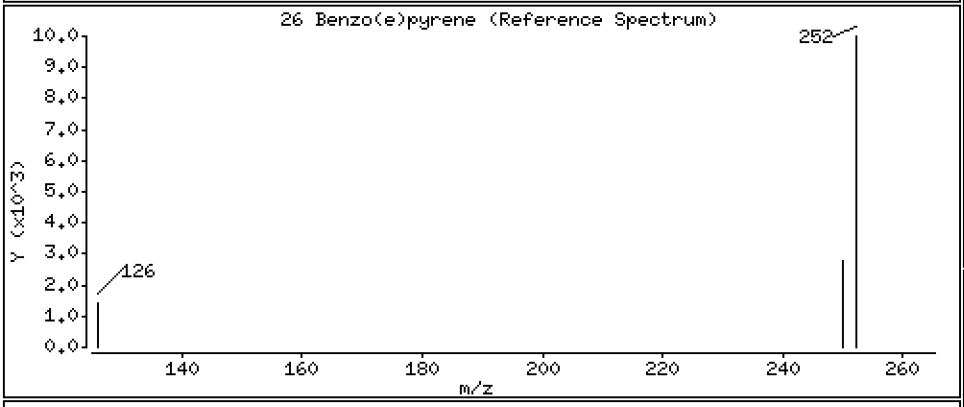
Column diameter: 0.25

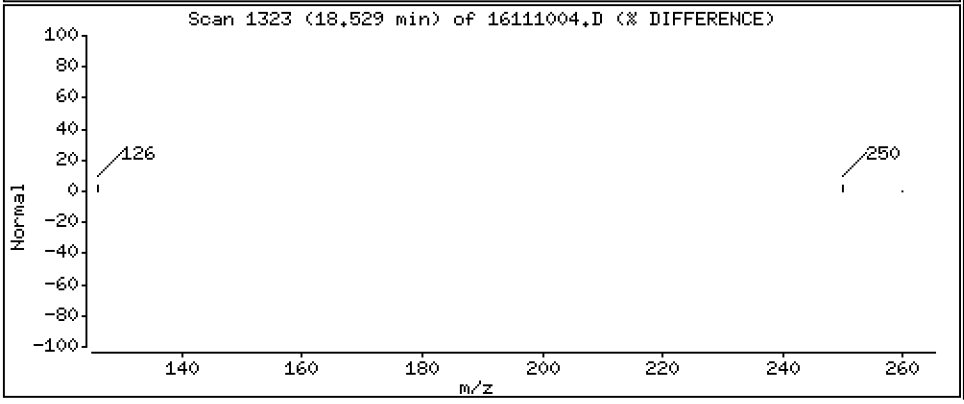
26 Benzo(e)pyrene

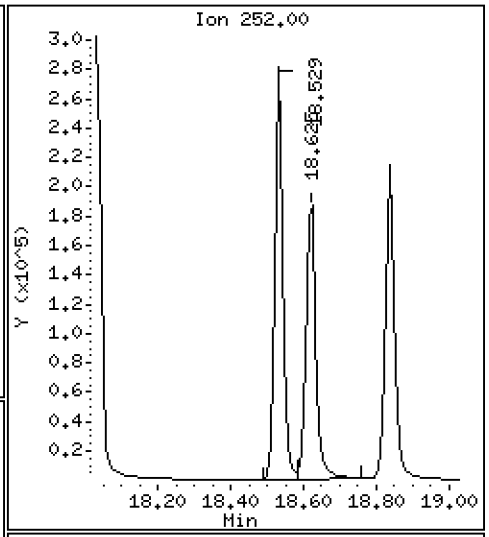
Concentration: 209 ng/mL

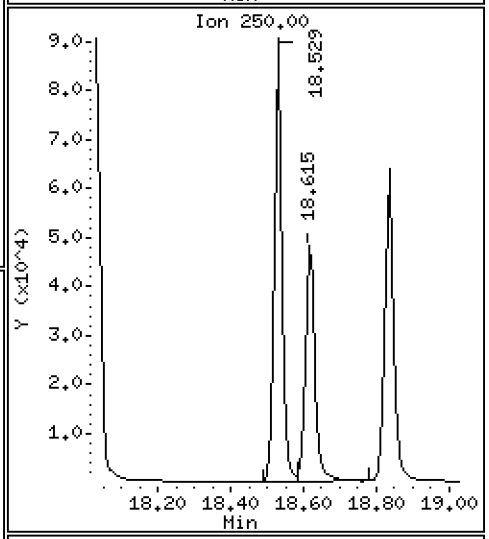


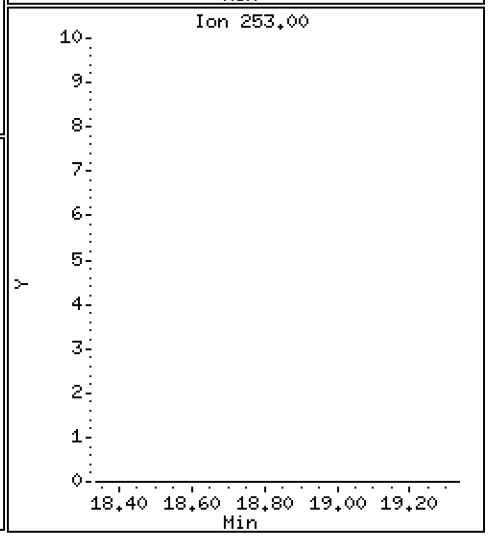












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Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

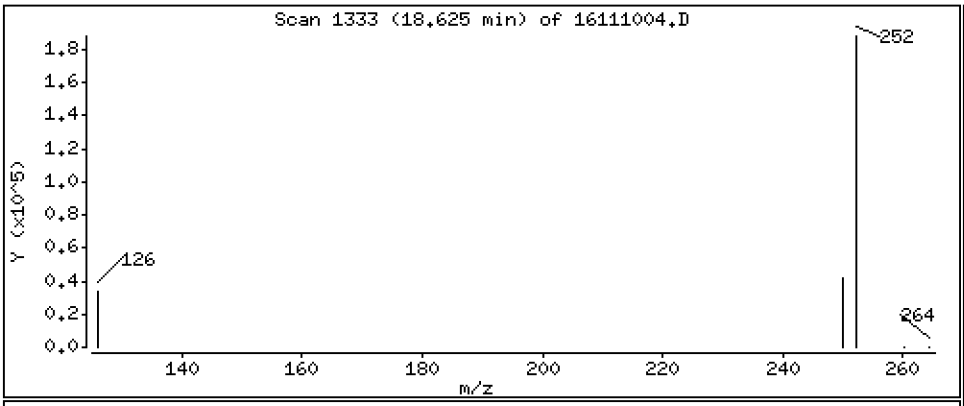
Operator: JW

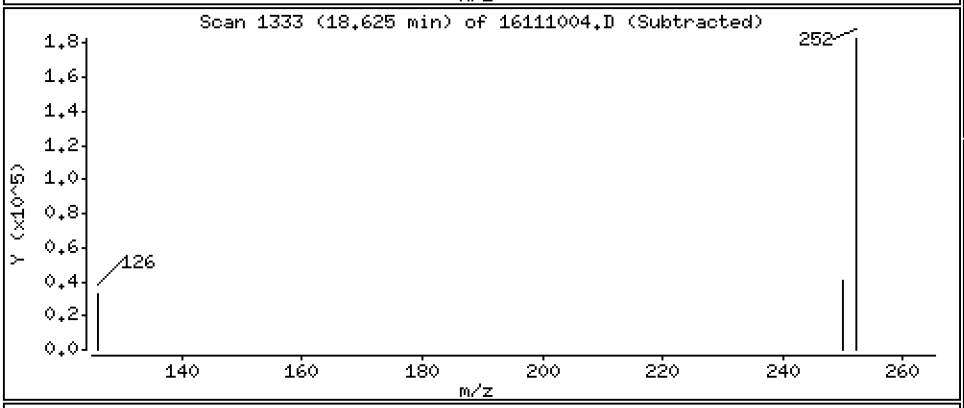
Column phase: Rxi-17Sil MS

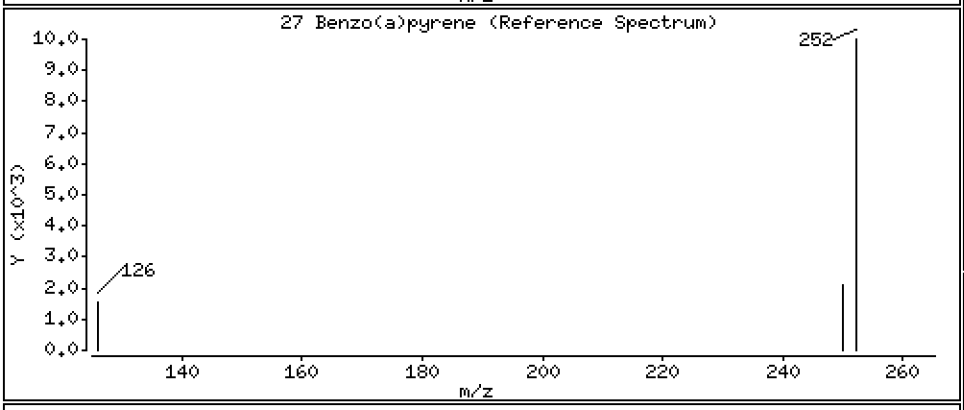
Column diameter: 0.25

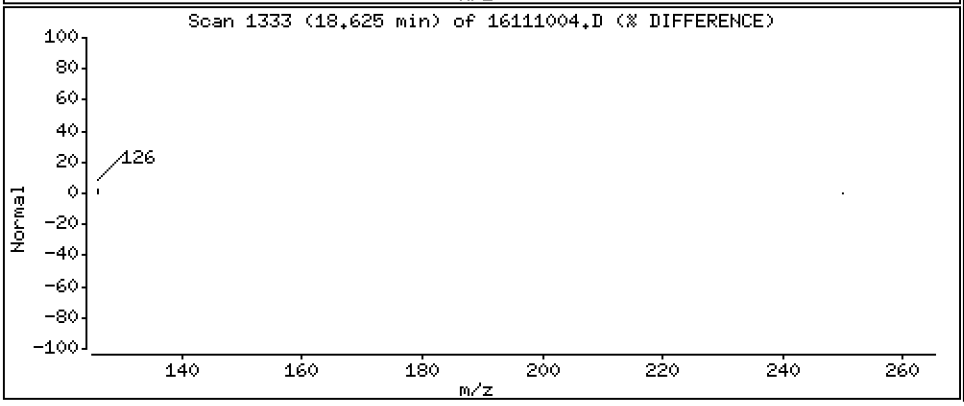
27 Benzo(a)pyrene

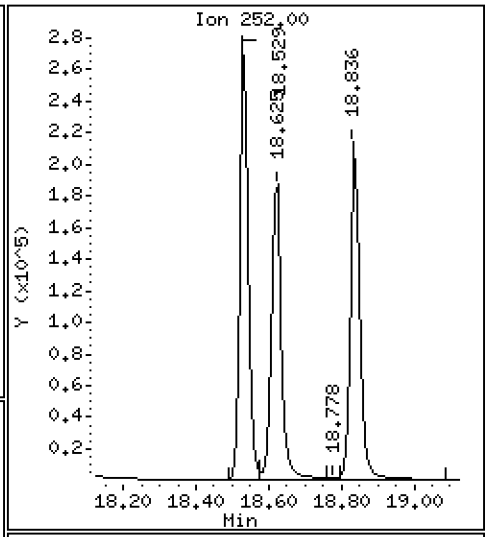
Concentration: 176 ng/mL

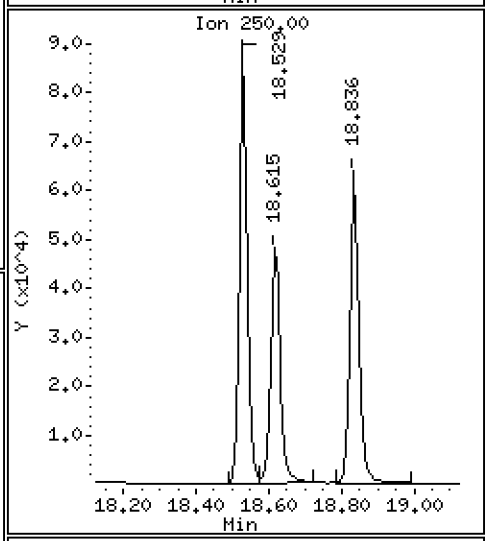


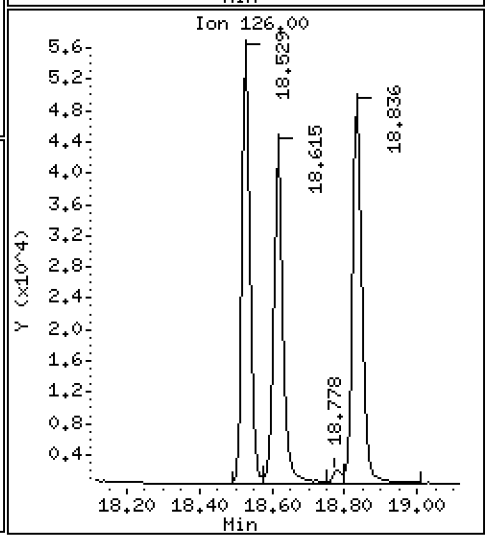












Data File: \\target\share\chem3\nt11.i\20161110.b\16111004.D

Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

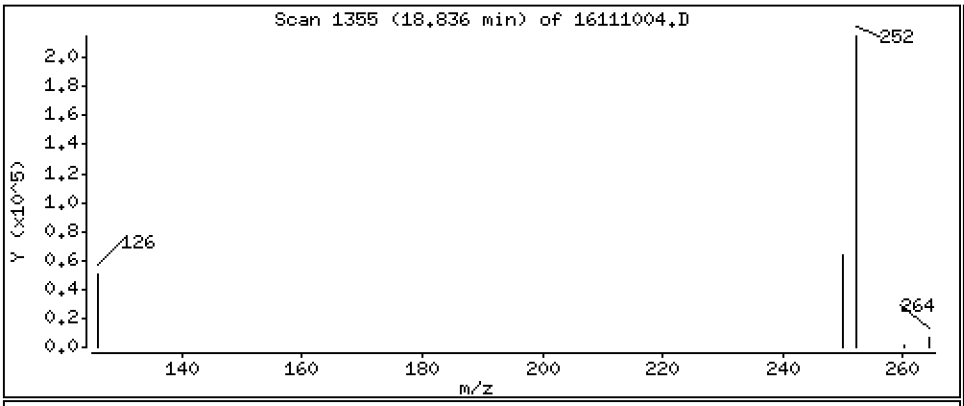
Operator: JW

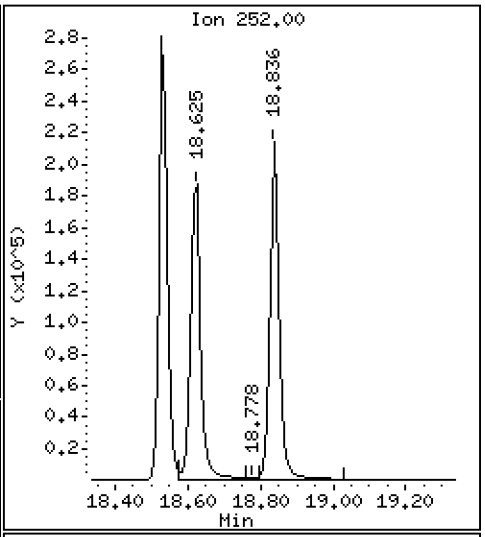
Column phase: Rxi-17Sil MS

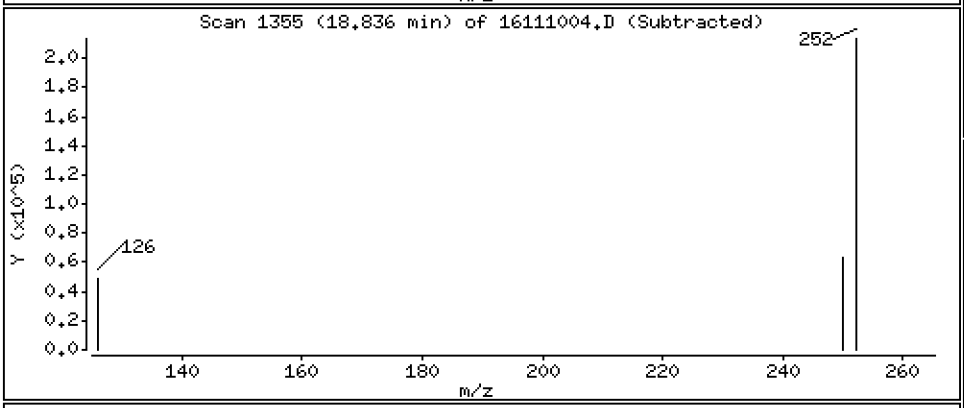
Column diameter: 0.25

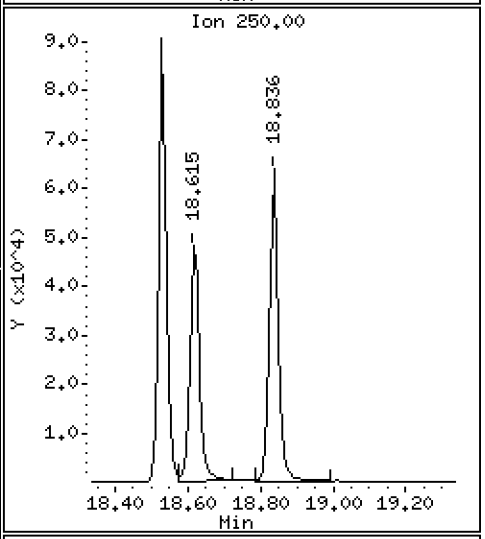
29 Perylene

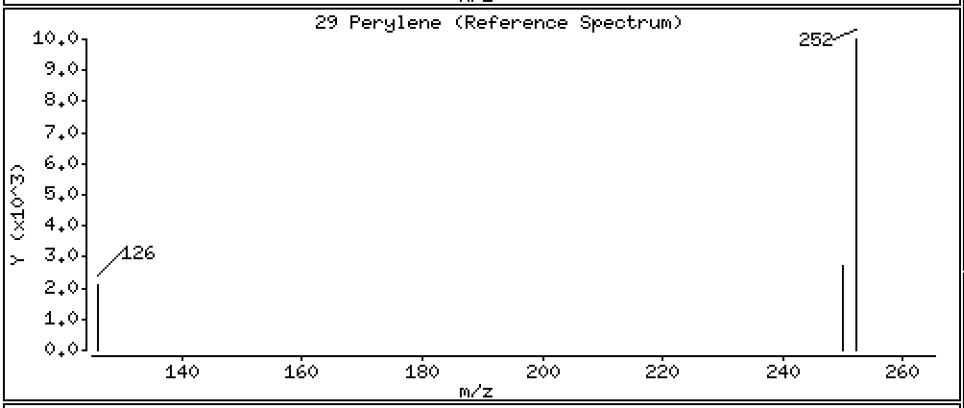
Concentration: 179 ng/mL

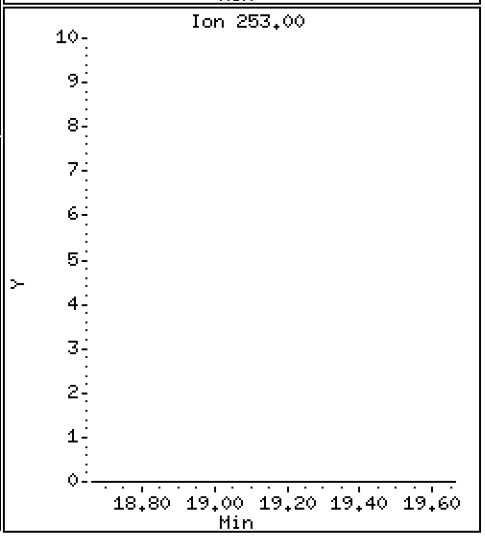


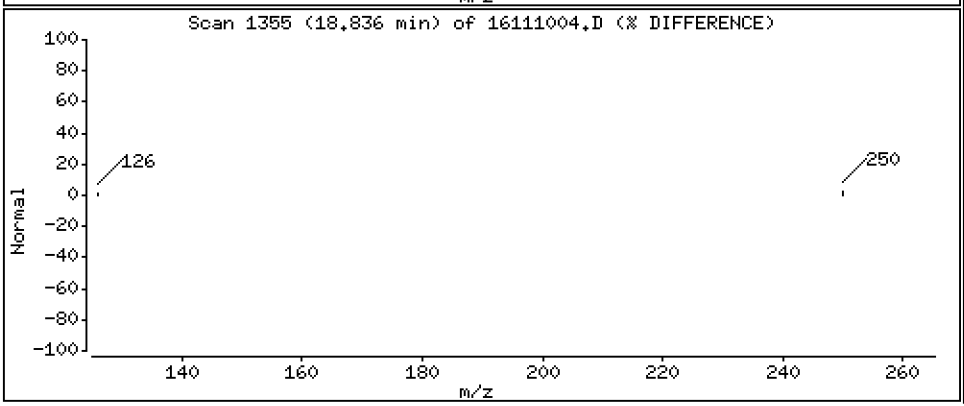












Data File: \\target\share\chem3\nt11.i\20161110.b\16111004.D

Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

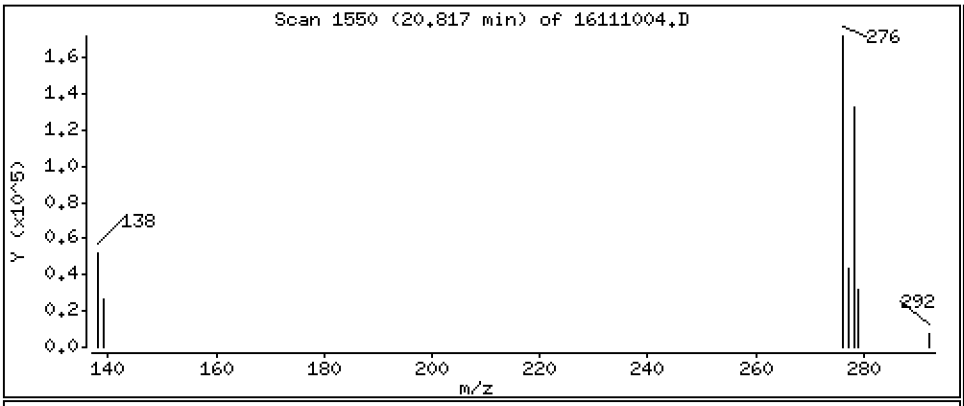
Operator: JW

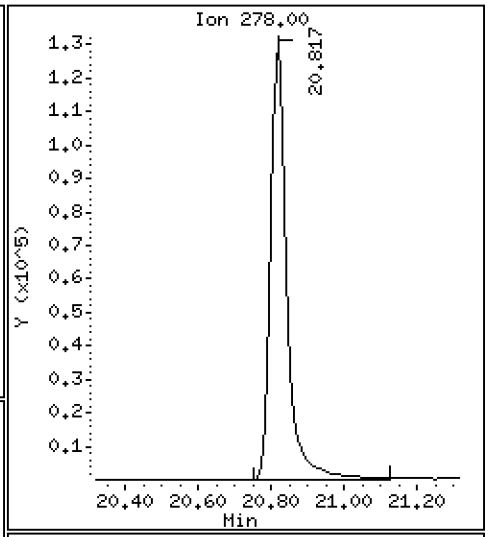
Column phase: Rxi-17Sil MS

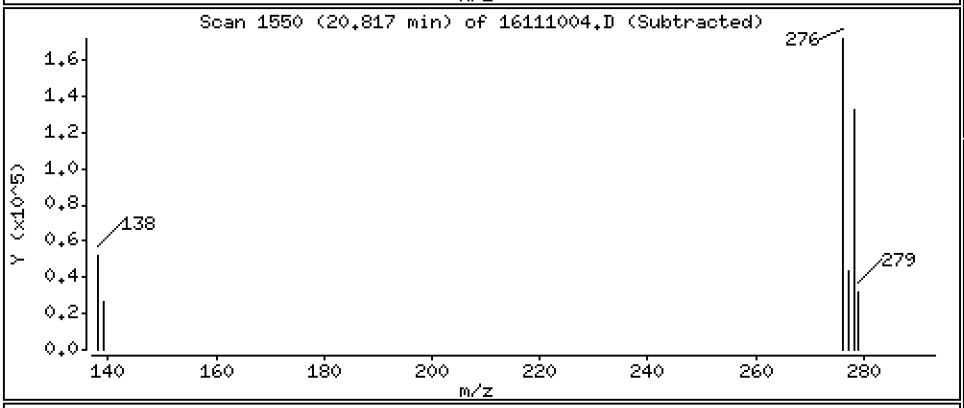
Column diameter: 0.25

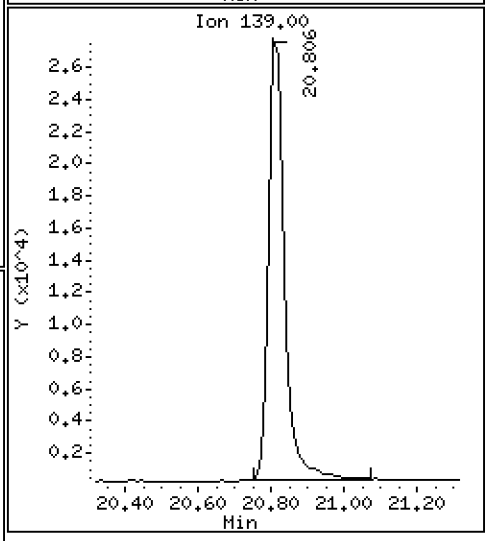
31 Dibenzo(a,h)anthracene

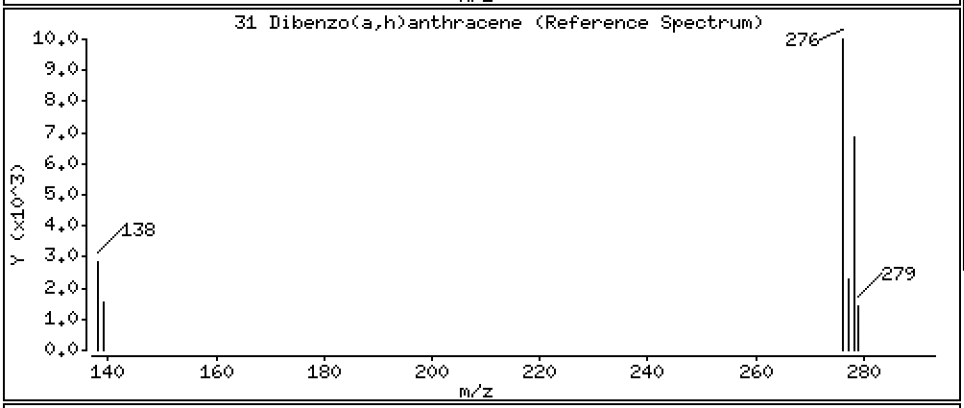
Concentration: 208 ng/mL

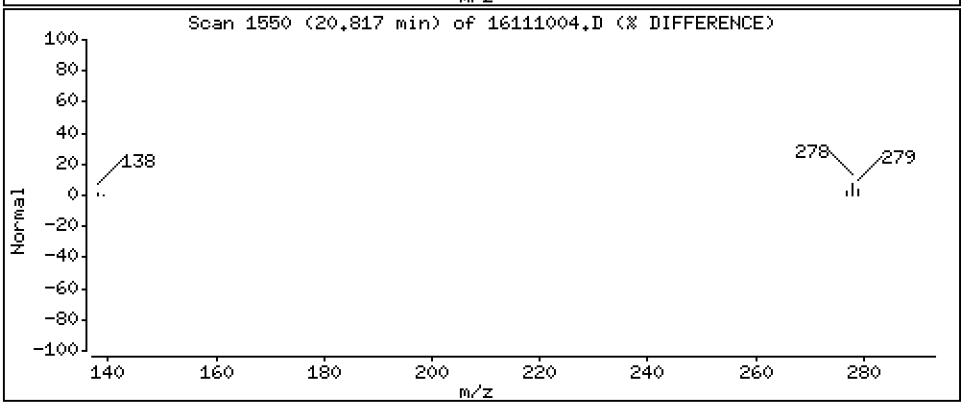












Data File: \\target\share\chem3\nt11.i\20161110.b\16111004.D

Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

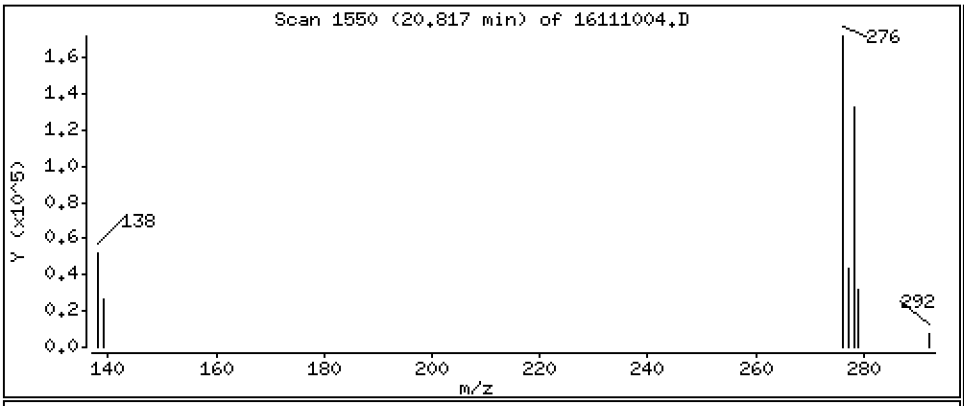
Operator: JW

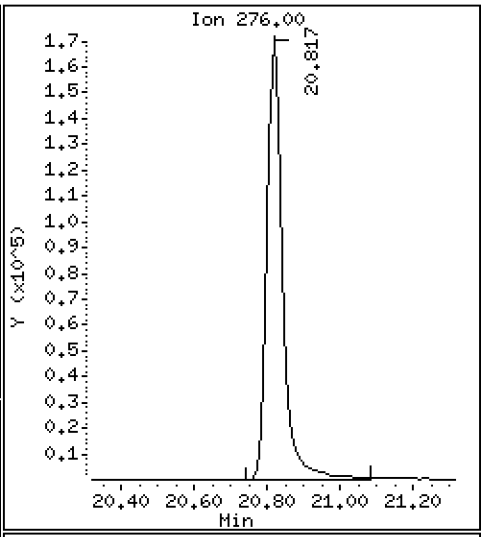
Column phase: Rxi-17Sil MS

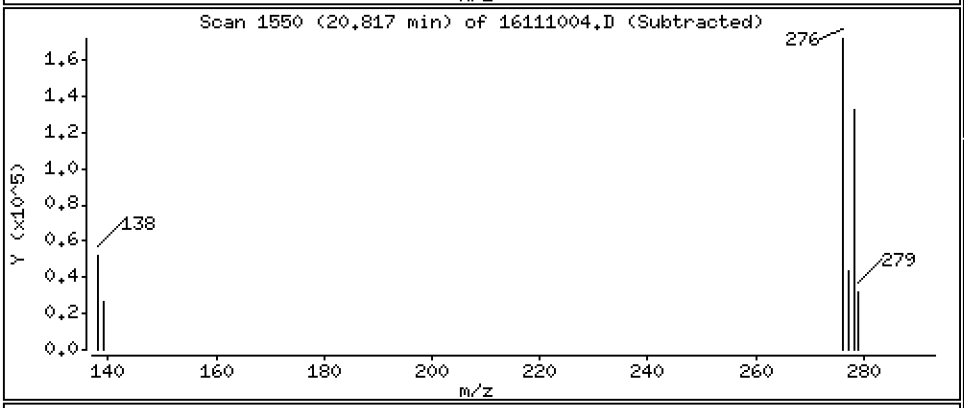
Column diameter: 0.25

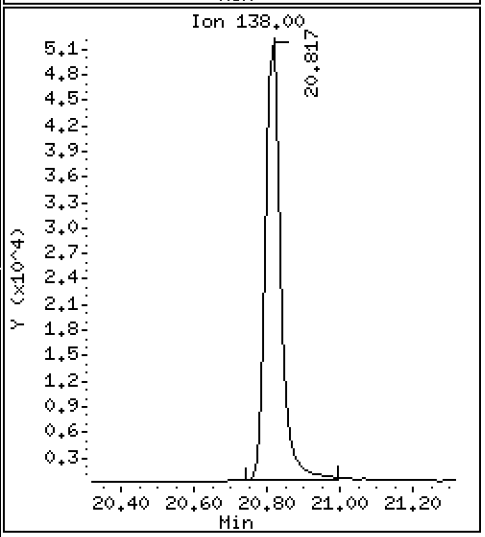
32 Indeno(1,2,3-cd)pyrene

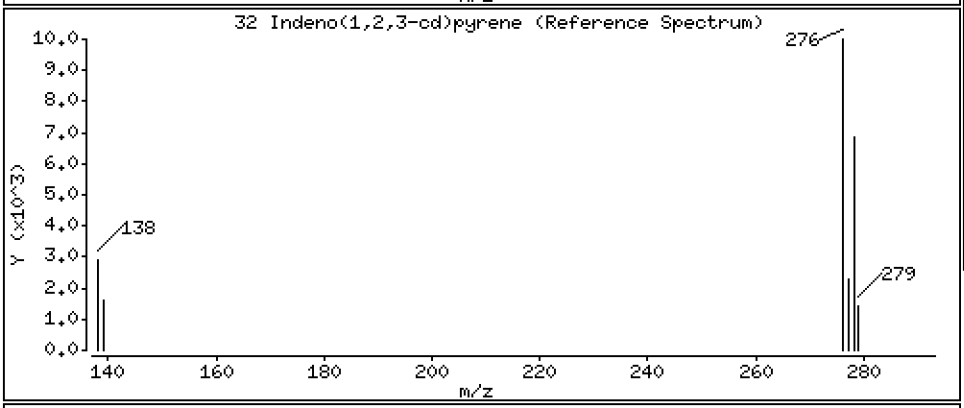
Concentration: 210 ng/mL

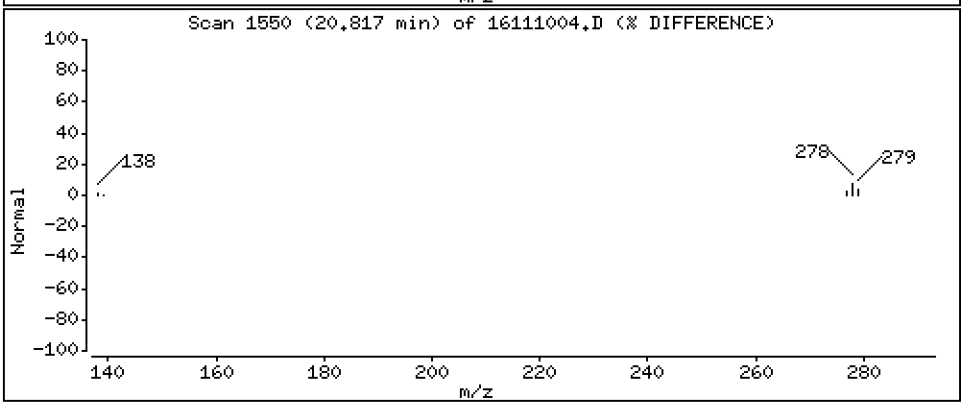












Data File: \\target\share\chem3\nt11.i\20161110.b\16111004.D

Date : 10-NOV-2016 13:09

Client ID:

Instrument: nt11.i

Sample Info: BEJ0794-BS1

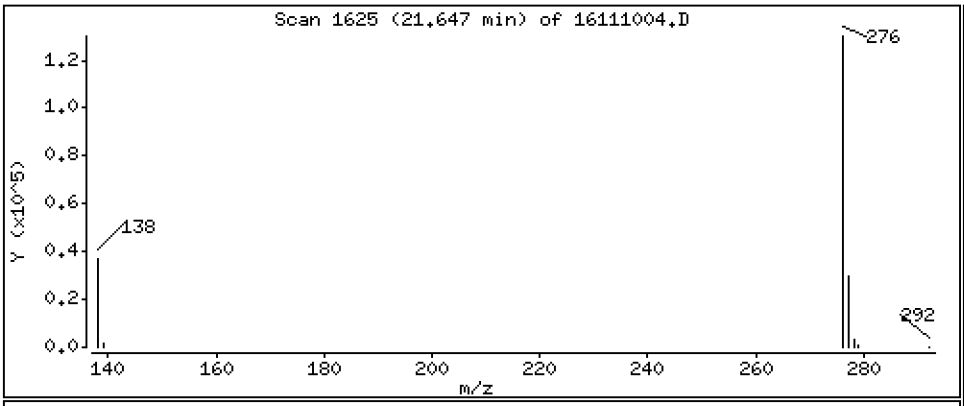
Operator: JW

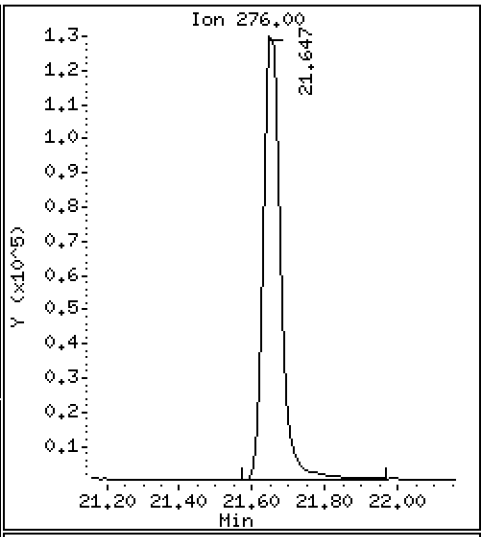
Column phase: Rxi-17Sil MS

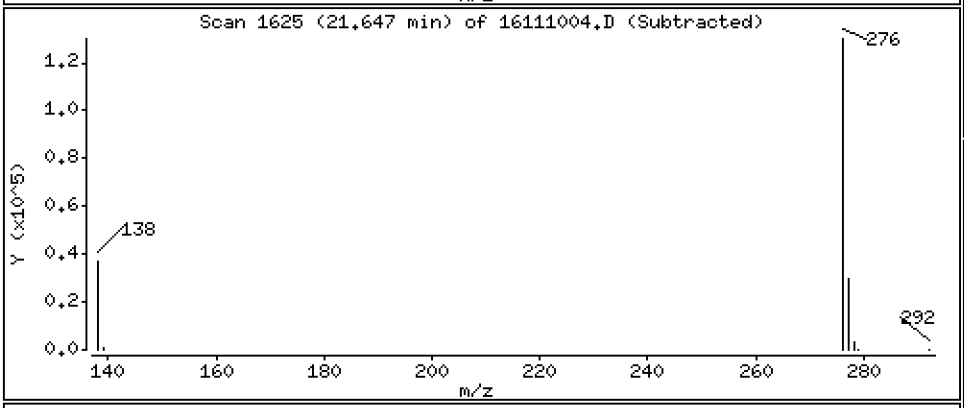
Column diameter: 0.25

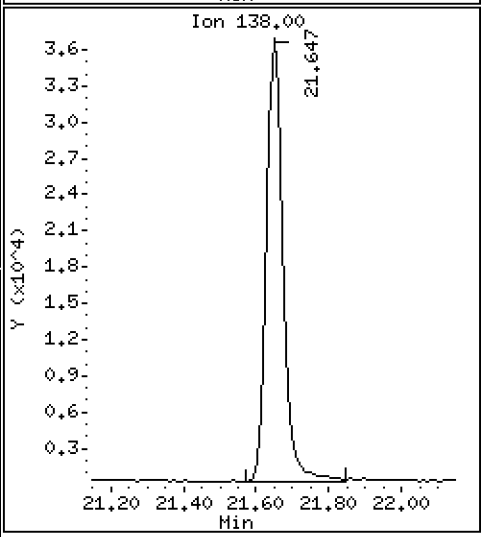
33 Benzo(g,h,i)perylene

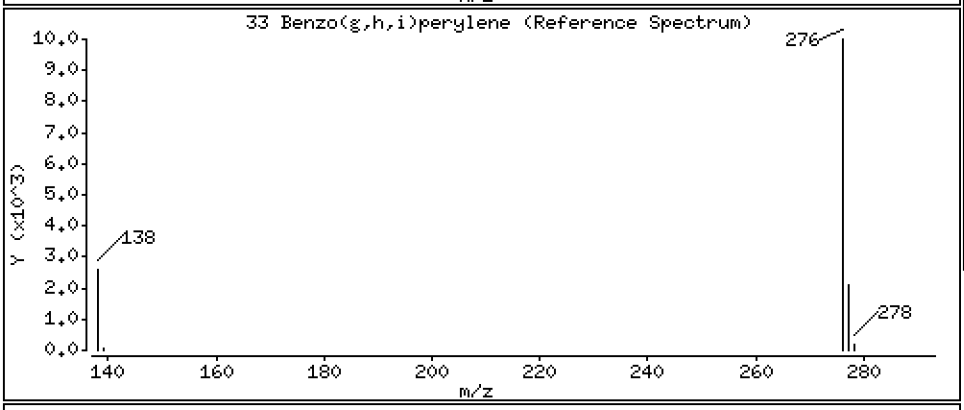
Concentration: 205 ng/mL

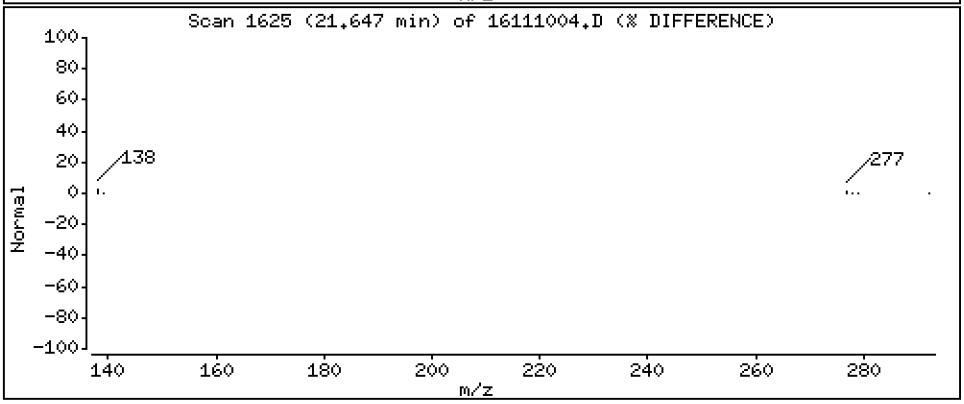












ARI Labs, Inc.

LOW LEVEL PNAs BY SW8270D-SIM

Data file : \\target\share\chem3\nt11.i\20161110.b\16111004.D
Lab Smp Id: BEJ0794-BS1
Inj Date : 10-NOV-2016 13:09 MS Autotune Date: 15-JAN-2015 15:59
Operator : JW Inst ID: nt11.i
Smp Info : BEJ0794-BS1
Misc Info :
Comment :
Method : \\target\share\chem3\nt11.i\20161110.b\lowsim.m
Meth Date : 10-Nov-2016 13:00 nt11.i Quant Type: ISTD
Cal Date : 01-NOV-2016 12:34 Cal File: 16110107.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: PEMD.sub
Target Version: 4.14
Processing Host: AUTOSPECDATA02

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ng/mL)	FINAL (ng/mL)
*	1 Naphthalene-d8	136	5.965	5.965	(1.000)	622901	200.000	
	2 Naphthalene	128	5.997	6.007	(1.005)	506320	139.451	139
$	3 2-Methylnaphthalene-d10	152	6.932	6.942	(1.162)	268365	142.679	143
	4 2-Methylnaphthalene	142	6.995	6.995	(1.173)	324967	137.741	138
	5 1-Methylnaphthalene	142	7.236	7.236	(1.213)	289021	136.630	137
	6 Acenaphthylene	152	8.773	8.773	(0.983)	376239	123.823	124
*	7 Acenaphthene-d10	164	8.928	8.928	(1.000)	305537	200.000	
	8 Acenaphthene	153	8.995	8.995	(1.007)	305134	152.884	153
	9 Dibenzofuran	168	9.194	9.194	(1.030)	433355	157.459	157
$	10 Fluorene-d10	174	Compound Not Detected.					
	11 Fluorene	166	9.817	9.817	(1.100)	343484	155.685	156
*	12 Phenanthrene-d10	188	11.571	11.571	(1.000)	532614	200.000	
	13 Phenanthrene	178	11.609	11.609	(1.003)	677397	186.981	187
$	14 Anthracene-d10	188	Compound Not Detected.					
	15 Anthracene	178	11.667	11.667	(1.008)	547938	156.082	156
$	16 Fluoranthene-d10	212	13.646	13.646	(1.179)	535094	212.090	212
	17 Fluoranthene	202	13.674	13.675	(1.182)	638813	206.238	206
	18 Pyrene	202	14.155	14.165	(0.870)	642935	216.101	216
	19 Benzo(a)anthracene	228	16.173	16.173	(0.994)	518587	204.974	205
*	20 Chrysene-d12	240	16.264	16.264	(1.000)	378849	200.000	
	21 Chrysene	228	16.306	16.314	(1.003)	559423	212.371	212
	22 Benzo(b)fluoranthene	252	17.951	17.952	(0.956)	451688	201.772	202
	23 Benzo(k)fluoranthene	252	17.980	17.980	(0.957)	573045	232.062	232
	24 Benzo(j)fluoranthene	252	18.028	18.028	(0.960)	490547	224.782	225
$	25 Benzo(e)pyrene-d12	264	Compound Not Detected.					
	26 Benzo(e)pyrene	252	18.528	18.528	(0.986)	459822	208.744	209
	27 Benzo(a)pyrene	252	18.624	18.624	(0.991)	373601	175.954	176
*	28 Perylene-d12	264	18.787	18.788	(1.000)	442667	200.000	
	29 Perylene	252	18.835	18.836	(1.003)	394802	179.440	179
$	30 Dibenzo(a,h)anthracene-d14	292	20.728	20.739	(1.103)	295875	215.797	216
	31 Dibenzo(a,h)anthracene	278	20.816	20.816	(1.108)	389243	207.583	208
	32 Indeno(1,2,3-cd)pyrene	276	20.816	20.816	(1.108)	491581	210.437	210
	33 Benzo(g,h,i)perylene	276	21.647	21.658	(1.152)	417886	205.179	205

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt11.i
Lab File ID: 16111004.D
Lab Smp Id: BEJ0794-BS1
Analysis Type: SV
Quant Type: ISTD
Operator: JW
Method File: \\target\share\chem3\nt11.i\20161110.b\lowsim.m
Misc Info:

Calibration Date: 10-NOV-2016
Calibration Time: 11:38
Level:
Sample Type:

Test Mode:
Use Initial Calibration Level 4.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	609556	304778	1219112	622901	2.19
7 Acenaphthene-d10	316851	158426	633702	305537	-3.57
12 Phenanthrene-d10	546133	273067	1092266	532614	-2.48
20 Chrysene-d12	417210	208605	834420	378849	-9.19
28 Perylene-d12	524443	262222	1048886	442667	-15.59

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
1 Naphthalene-d8	5.97	5.47	6.47	5.97	-0.00
7 Acenaphthene-d10	8.93	8.43	9.43	8.93	-0.00
12 Phenanthrene-d10	11.57	11.07	12.07	11.57	-0.00
20 Chrysene-d12	16.26	15.76	16.76	16.26	-0.00
28 Perylene-d12	18.79	18.29	19.29	18.79	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - 16111004.D

Lab ID: BEJ0794-BS1
nt11.i, 20161110.b\lowsim.m,   10-NOV-2016 13:09

RT	CO-ELUTION COMPOUNDS
20.817	Indeno(1,2,3-cd)pyrene and Dibenzo(a,h)anthracene
20.817	Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
NONE			

On Column LOD for nt11.i, 20161110.b\lowsim.m, PEMD.sub = 0.0000

PREPARATION BATCH SUMMARY

EPA 8270D-SIM

Laboratory:	Analytical Resources, Inc.			SDG:	16H0147
Client:	Anchor QEA, LLC			Project:	Port Gamble Shellfish Monitoring
Batch:	BEJ0794	Batch Matrix:	Tissue	Preparation:	EPA 3550C-Mod (Ultrasonic)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
PG-T0-MUS-COC-160816	16H0147-01	16111005.D	10/26/16 15:10	
Blank	BEJ0794-BLK1	16111003.D	10/26/16 13:35	
LCS	BEJ0794-BS1	16111004.D	10/26/16 13:35	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Benchsheet

Miscellaneous
Water/Soil/Sed/Tissue/Other
Separatory Funnel (3510C)/Liq-Liq (3520C)
Sonication (3550C)/Microwave (3546)
TissueMize (Modified 3550C)

Analysis SIM PNA Low Lvl

Preparation Test Misc # 1

Lab Number(s) 16H0147, 16H0268, 16J0187 Page 1 of 1 Batch set up by: JG

Batch ID BEJ0794

EPH = Aromatic

Bottle or JAR ID	Extraction Requirements	Weight ~~Or Volume~~ Extracted	Sonic Horn ID + Chk	(REQ/ Opt) GPC (3) (Y)/N 1:1	(REQ/ Opt) Acid Clean Y (N)	(REQ/ Opt) Sulfur Clean Y (N)	(REQ/ Opt) ~~SPE~~ Clean (Y)/N Silica gel	Final Effective Volume	Vol to Lab	Comments
	BEJ0794 BLK	10.0g		1:1			1:1	0.5mL	0.5mL	
	BS	10.0g		1:1			1:1	0.5mL	0.5mL	
	~~BS Dup~~									
	~~MRL Check~~									
A	16H0147-01	10.07		1:1			1:1	0.5mL	0.5mL	
A	16H0268-01	10.1g		1:1			1:1	0.5mL	0.5mL	
A	16J0187-01	10.02		1:1			1:1	0.5mL	0.5mL	
A	-02	10.14		1:1			1:1	0.5mL	0.5mL	
A	-03	10.13		1:1			1:1	0.5mL	0.5mL	
A	-04	10.18		1:1			1:1	0.5mL	0.5mL	
A	-05	10.15		1:1			1:1	0.5mL	0.5mL	
A	-06	10.00		1:1			1:1	0.5mL	0.5mL	
Analyst/Date		MJE 10/26/16		GM 11/8/16			GM 11/9/16	MJE 11/10/16	→	Reviewed by/Date

Verify Client ID MJE 10/26/16 Analyst/Date

Pre-GPC KD 1 2 3 4 5 6 80 °C Exchange to Hex? ~~Exchange to Hex?~~ Analyst/Date DMM 10/27

TurboVap Pre-GPC 1 2 3 4 5 GM 11/7/16 Analyst/Date

Post GPC KD 1 2 3 4 5 6 80 °C Exchange to Hex? Analyst/Date DMM 11/9/16 GM 11/9/16 2mL

TurboVap Post-GPC 1 2 3 4 5 GM 11/9/16 Analyst/Date

TurboVap Pre-Cleanups 1 2 3 4 5 MJE 11/10/16 Analyst/Date

TurboVap Post-Cleanups 1 2 3 4 5 NA Analyst/Date

	Standard	Standard ID	Concentration	Volume	Expiration Date	Analyst	Witness
Low Lvl SIM PNA	Surrogate	I (D0305238)	1.5/7.5ng/mL	100 µL	11/11/16	MJE	MW
	Spike	( )		µL			
Low Lvl SIM PNA	Spike	18 (E003190)	1.5/7.5ng/mL	100 µL	11/11/16	MJE	MW
	Spike	( )		µL			
	MRL Spike	( )		µL			
	Extraction Time: 1510	Liq/Liq Start:	Liq/Liq Stop:		Balance ID: B139293002		

SPECIAL INSTRUCTIONS: (2x) 1:1 DCM/ACE 1 set EPH only (1x) DCM only Low lvl

Organic Extractions
Reagent and Solutions Identification

Analysis: SIM PNA Low Lvl
Method: Tissuemize (3550c) Modified

Lab Number(s) 16H0147, 16H0268, 16J0187

Water/Soil/Sediment/Solid/Tissue/Other:	Analyst/Date
Sep.Funnel/Liquid-Liquid/Sonication/Microwave/Tissuemize Station: Neutral Sodium Sulfate: (E00 5293) ~~Pre-deactivated Sodium Sulfate:~~ ( ) Neutral Glasswool: (E00 3664) ~~Pre-deactivated Glasswool:~~ ( ) ~~1:1 Hexane/Acetone:~~ ( ) ~~80:20 Hexane/Acetone:~~ ( ) 1:1 DCM/Acetone: (E00 5687) Low Lvl DCM ~~80:20 DCM/Acetone:~~ ( ) ~~Hexane:~~ ( ) DCM: (E00 4228) ~~Other:~~ ( ) ~~Other:~~ ( )	SepFunnel/LiqLiq/ Sonication/Microwave/ Tissuemize VC 10/27/16
Pre-GPC KD Station: ~~Hexane:~~ ( ) DCM: (E00 3811) ~~Neutral Sodium Sulfate:~~ ( ) ~~Pre-deactivated Sodium Sulfate:~~ ( ) ~~Neutral Glasswool:~~ ( ) ~~Pre-deactivated Glasswool:~~ ( ) ~~Other:~~ ( ) ~~Other:~~ ( )	Pre-GPC KD RMM 10/27/16
GPC Filter Prep: DCM: (E00 4229) Other: ( ) Other: ( )	GPC Filter Prep GT 11/7/16
GPC Station: Acetone: (E00 4610) DCM: (E00 4229) 1:1 DCM/Acetone: ( ) Other: ( ) Other: ( )	GPC GT 11/8/16
Post GPC KD Station: DCM: (E00 5605) Hexane: (E00 4837) ~~Other:~~ ( ) ~~Other:~~ ( )	Post GPC KD RMM 11/9/16
Vialing Station: Hexane: (E00 4837) DCM: (E00 4229) ~~Concentrated Sulfuric Acid:~~ ( ) ~~Ethyl Acetate:~~ ( ) ~~Tetrabutylammonium hydrogensulfate (TBAS):~~ ( ) ~~Sodium Sulfite:~~ ( ) ~~Copper:~~ ( ) ~~Silica Gel (SPE) Darts:~~ ( ) 0% Silica Gel: (E00 2623) ~~Alumina:~~ ( ) ~~HexMgBr:~~ ( ) ~~Other:~~ ( ) Sodium sulfate: E00 5874 ~~Other:~~ ( ) glass wool E00 1726 6P: 40 pentane / 1L DCM E00 4991	Vialing ML 11/10/16

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

ARI Job No.: 16HΦ147/16HΦ268/16JΦ187 Client ID: Anchor QEA, LLC

Batch ID: BEJΦ794

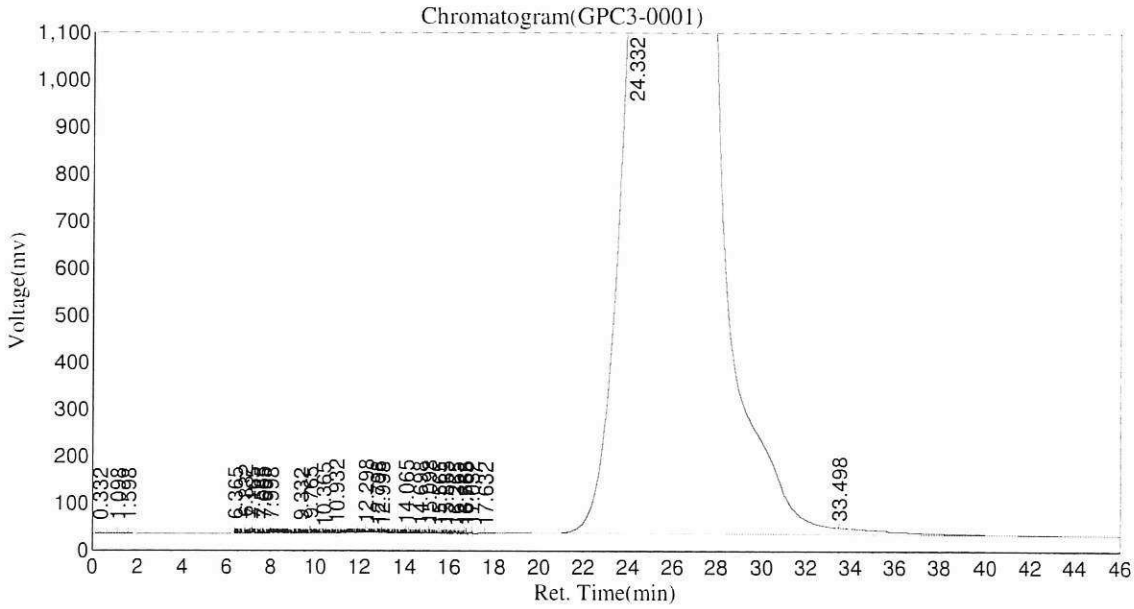
Parameter: SIM PNA Low Lvl Client Project: Port Gamble Shellfish Monitoring

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☐ No Anomalies (standard soil/wet sediment/sand/gravel)=	
☐ Standing Water Decanted (Not shared)=	
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☐ Rocks (%+size)?	
☐ Organics (Leaves/sticks/grass)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☐ Share Samples Y / N	
☐ Multiple Jars Y / N	
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

BEJ0794-16H147;268;J187 LL SIM PNA

Date:2016-11-08,1:06:31 PM
Data File:c:\n2000\data1\110816\GPC3-0001 — BLK
Method File:C:\N2000\LL-Tiss.mtd

Analyst£ºGM
Date/Time2016-11-08,1:06:32 PM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		0.332	1006.636	17699.912	0.0041
2		1.098	1378.909	35244.715	0.0082
3		1.598	627.000	10478.717	0.0024
4		6.365	6684.667	75148.164	0.0174
5		6.832	3916.222	23864.090	0.0055
6		7.165	6525.333	110796.680	0.0257
7		7.565	5742.667	52762.441	0.0123
8		7.665	4092.500	39107.035	0.0091
9		7.998	7783.611	64071.816	0.0149
10		9.332	3713.055	88295.664	0.0205
11		9.765	3521.000	8094.200	0.0019
12		10.365	4985.000	90872.211	0.0211
13		10.932	3663.389	43997.410	0.0102
14		12.298	2717.875	48903.699	0.0114
15		12.798	1804.800	15532.606	0.0036
16		12.998	3188.200	87559.461	0.0203
17		14.065	3281.000	96150.016	0.0223
18		14.698	3274.600	51265.617	0.0119
19		15.098	3664.400	34666.105	0.0080
20		15.565	3266.000	44457.500	0.0103
21		15.865	2678.600	55074.070	0.0128