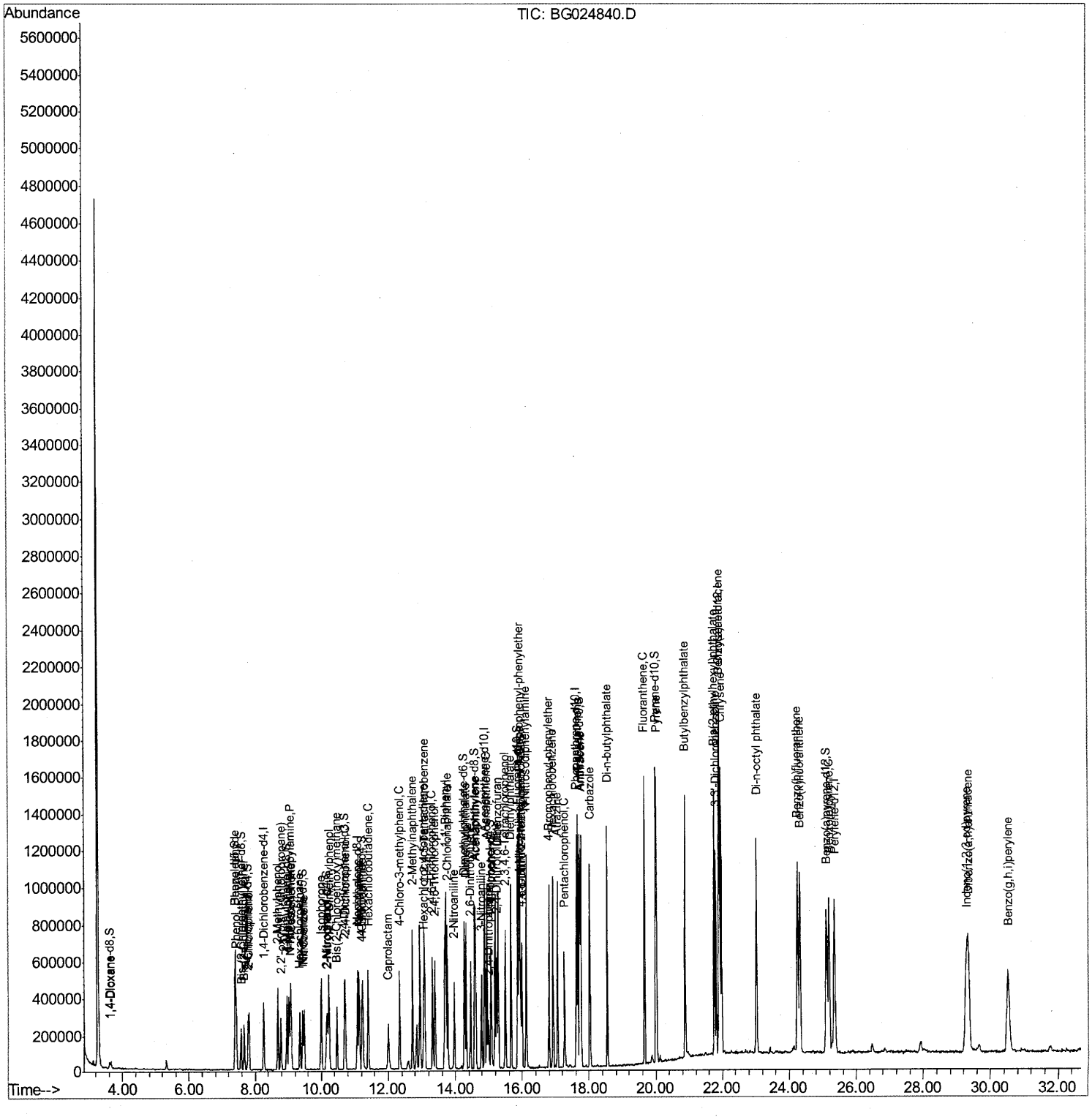
Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111816\
Data File : BG024840.D
Acq On : 19 Nov 2016 00:54
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 19 03:34:59 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Nov 19 00:07:29 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02018

Manual Integrations APPROVED
sohil
11/21/2016 3:41:55 PM



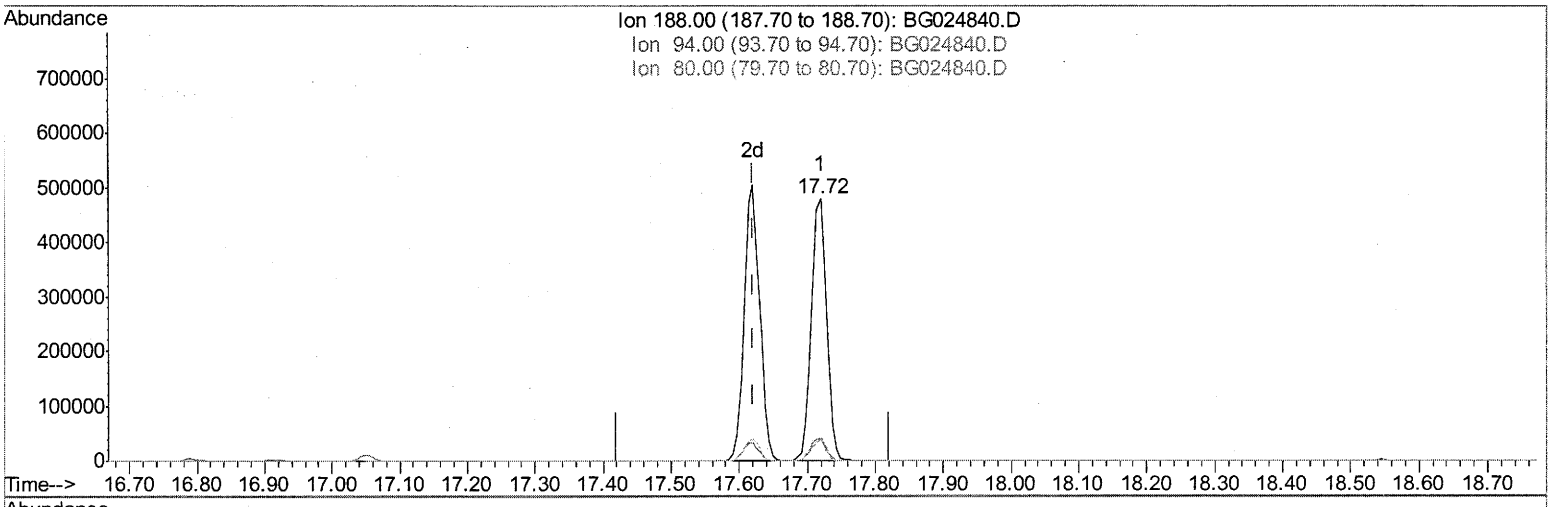
Quantitation Report (Qedit)

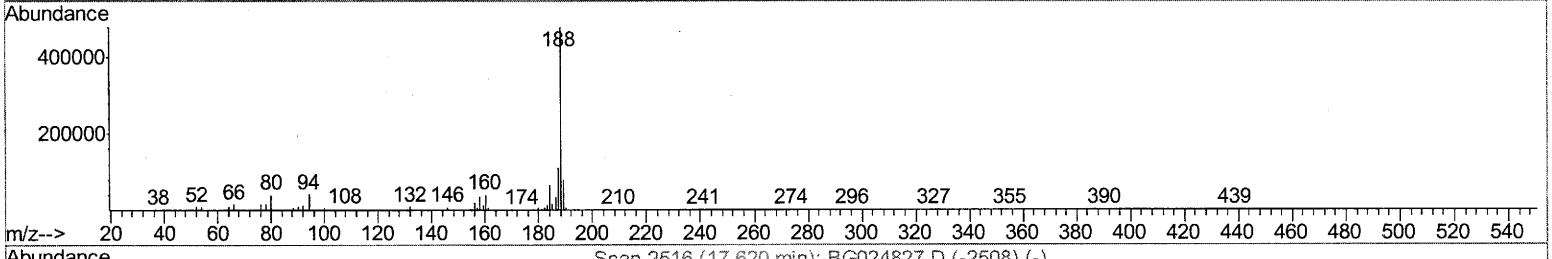
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111816\
Data File : BG024840.D
Acq On : 19 Nov 2016 00:54
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

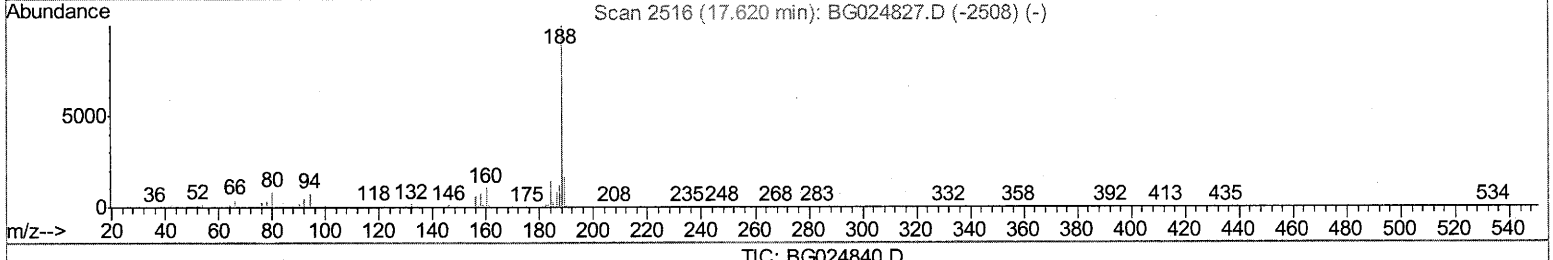
Quant Time: Nov 19 03:28:13 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Nov 19 00:07:29 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02018

Manual Integrations APPROVED
sohil
11/21/2016 3:41:55 PM







TIC: BG024840.D

(61) Phenanthrene-d10 (I)

17.720min (+0.100) 20.00ng/ul

response 743450

Ion	Exp%	Act%
188.00	100	100
94.00	8.80	8.69
80.00	9.50	8.25
0.00	0.00	0.00

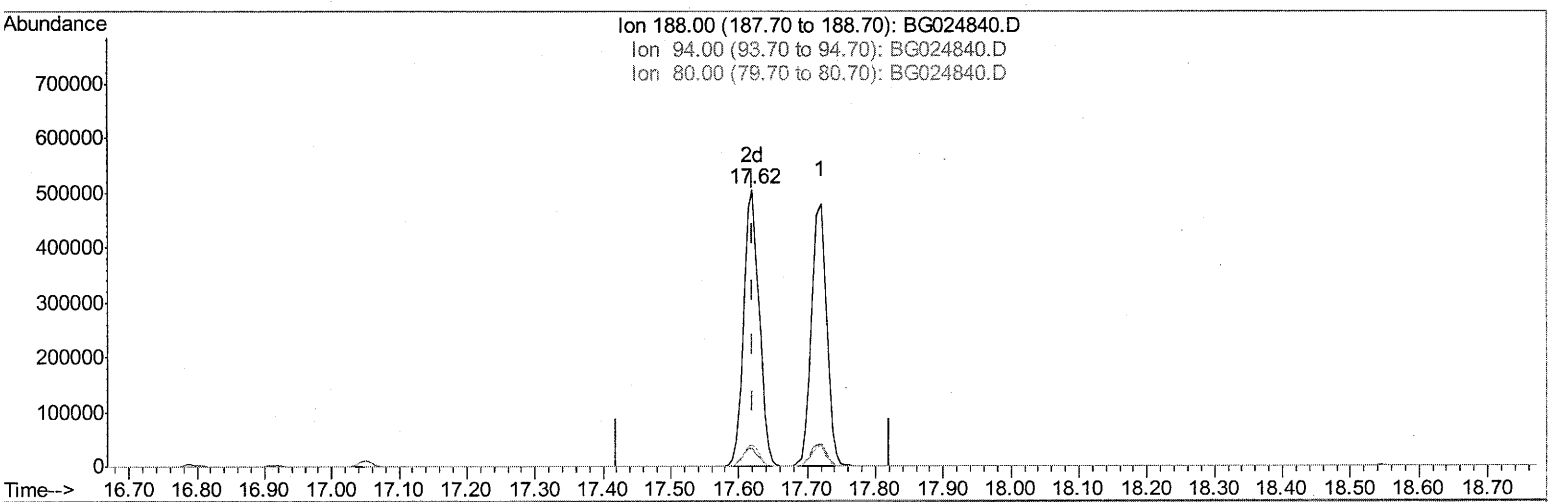
Quantitation Report (Qedit)

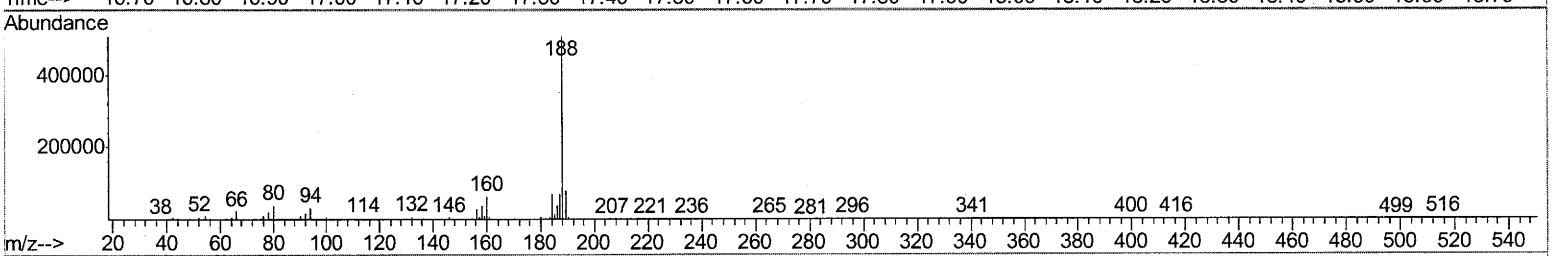
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111816\
Data File : BG024840.D
Acq On : 19 Nov 2016 00:54
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

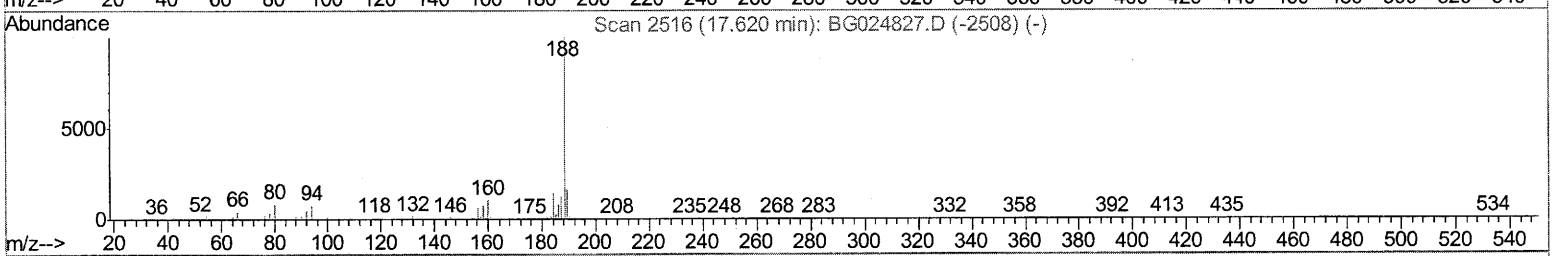
Quant Time: Nov 19 03:28:13 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Nov 19 00:07:29 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02018

Manual Integrations APPROVED
sohil
11/21/2016 3:41:55 PM







TIC: BG024840.D

(61) Phenanthrene-d10 (I)

17.620min (-0.000) 20.00ng/ul m UM

response 799580 11/21/16

Ion	Exp%	Act%
188.00	100	100
94.00	8.80	6.27#
80.00	9.50	7.73
0.00	0.00	0.00

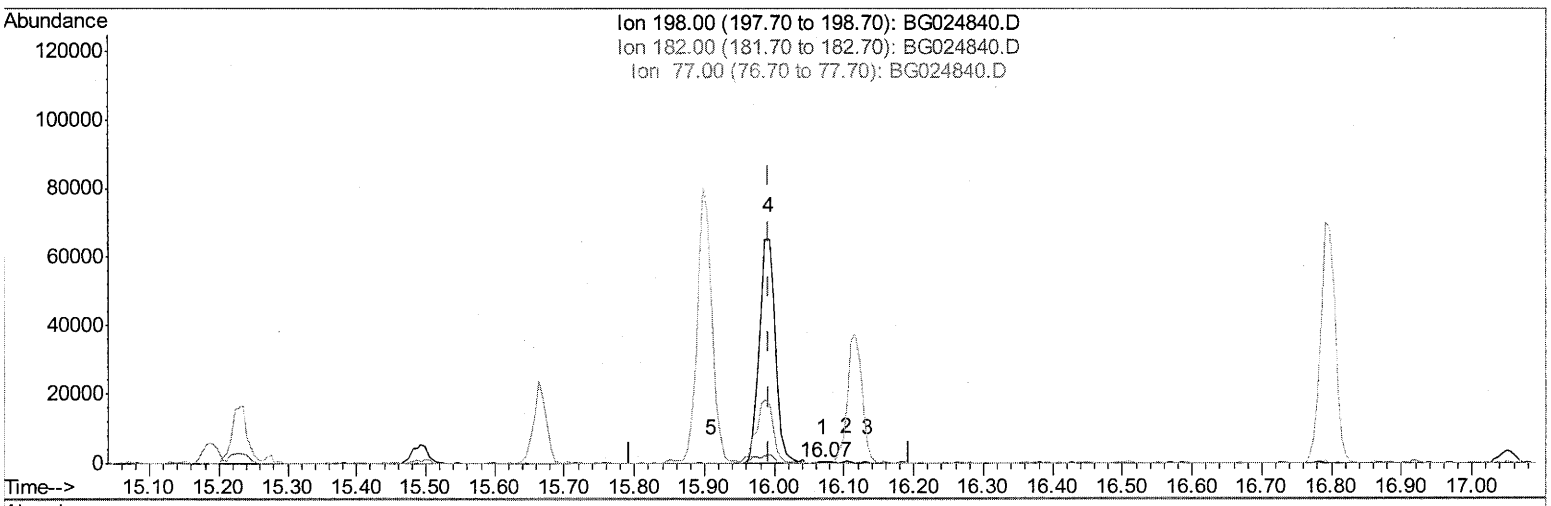
Quantitation Report (Qedit)

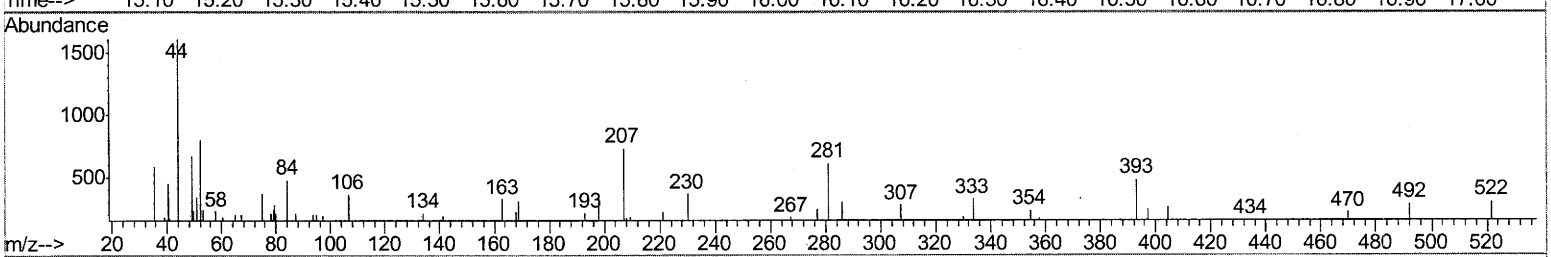
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111816\
Data File : BG024840.D
Acq On : 19 Nov 2016 00:54
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

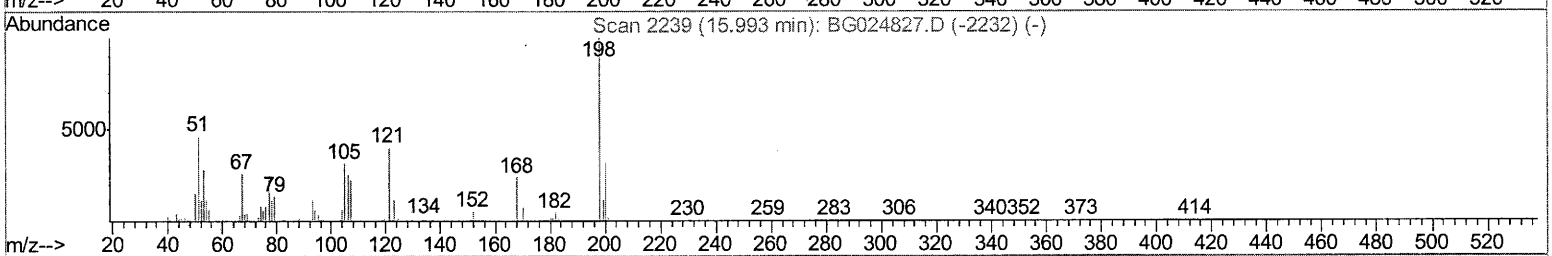
Quant Time: Nov 19 03:33:59 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Nov 19 00:07:29 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02018

Manual Integrations APPROVED
sohil
11/21/2016 3:41:55 PM







TIC: BG024840.D

(63) 4,6-Dinitro-2-methylphenol

16.069min (+0.076) 0.10ng/ul

response 534

Ion	Exp%	Act%
198.00	100	100
182.00	6.10	0.00#
77.00	28.00	0.00#
0.00	0.00	0.00

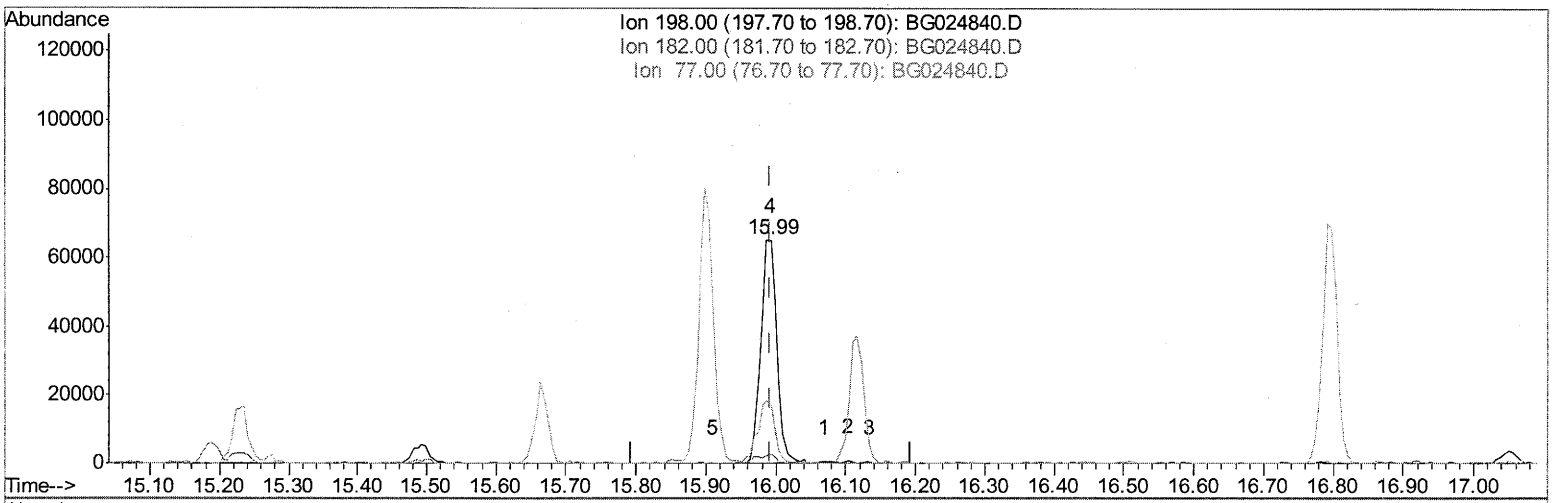
Quantitation Report (Qedit)

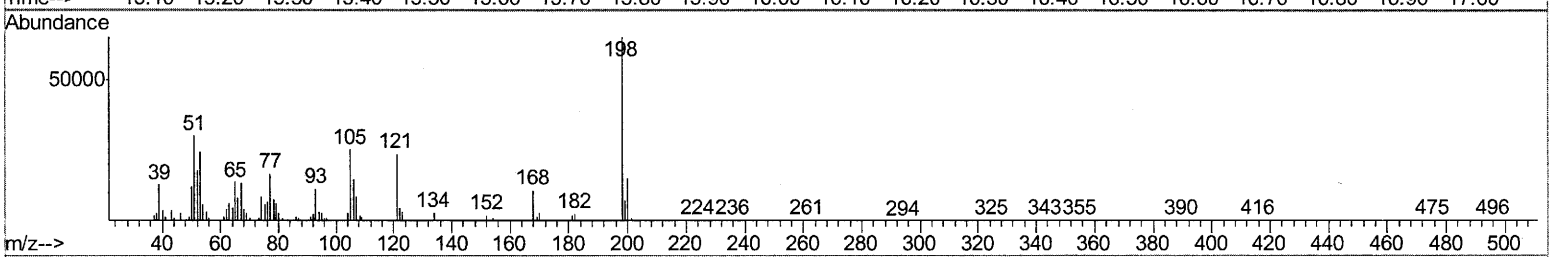
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111816\
Data File : BG024840.D
Acq On : 19 Nov 2016 00:54
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

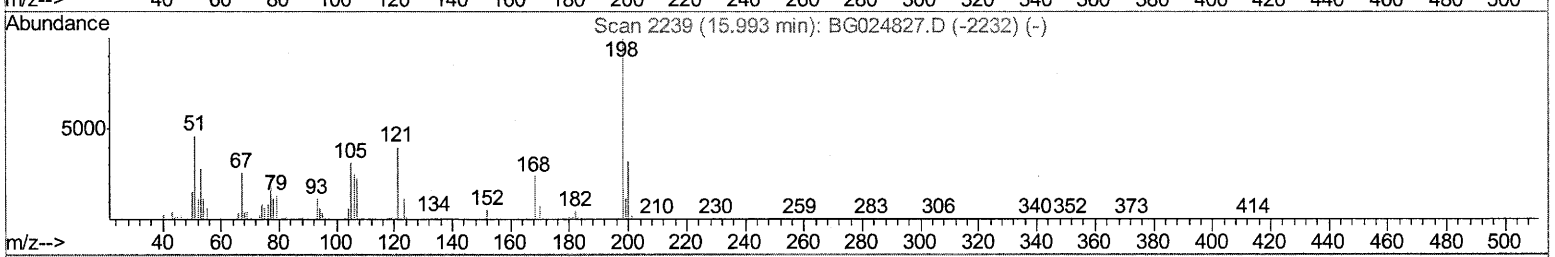
Quant Time: Nov 19 03:33:59 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Nov 19 00:07:29 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02018

Manual Integrations APPROVED
sohil
11/21/2016 3:41:55 PM







TIC: BG024840.D

(63) 4,6-Dinitro-2-methylphenol

15.993min (-0.000) 18.67ng/ul m UM

response 104057 11/21/16

Ion	Exp%	Act%
198.00	100	100
182.00	6.10	3.90#
77.00	28.00	25.74
0.00	0.00	0.00

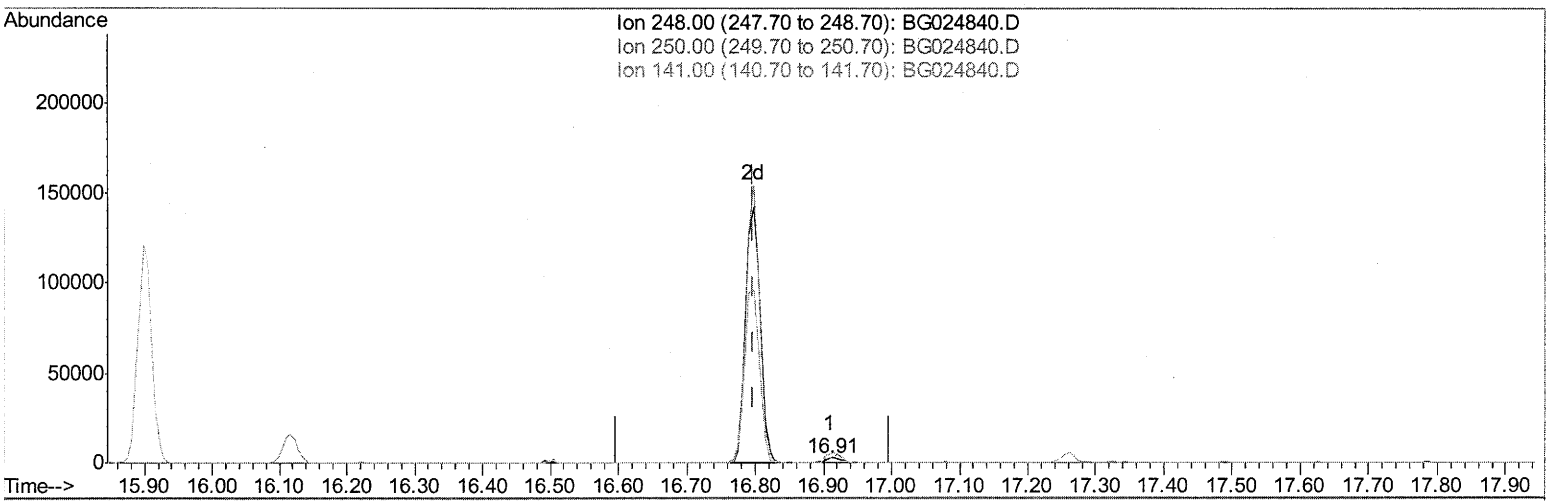
Quantitation Report (Qedit)

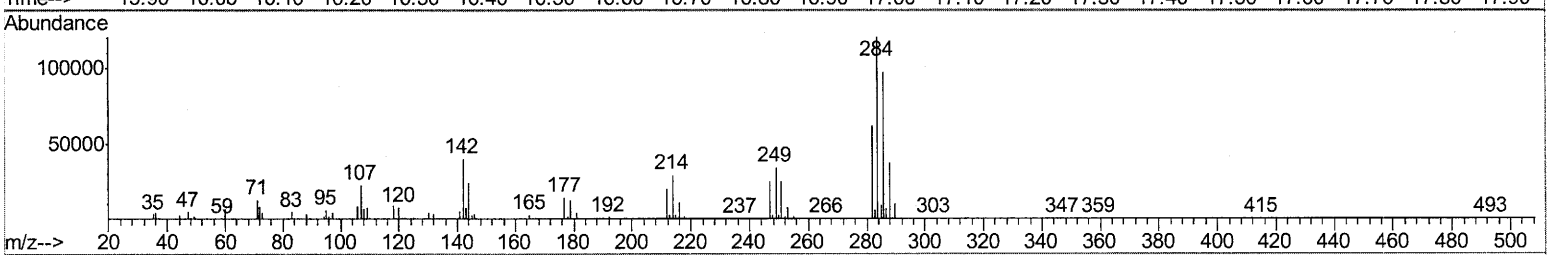
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111816\
Data File : BG024840.D
Acq On : 19 Nov 2016 00:54
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

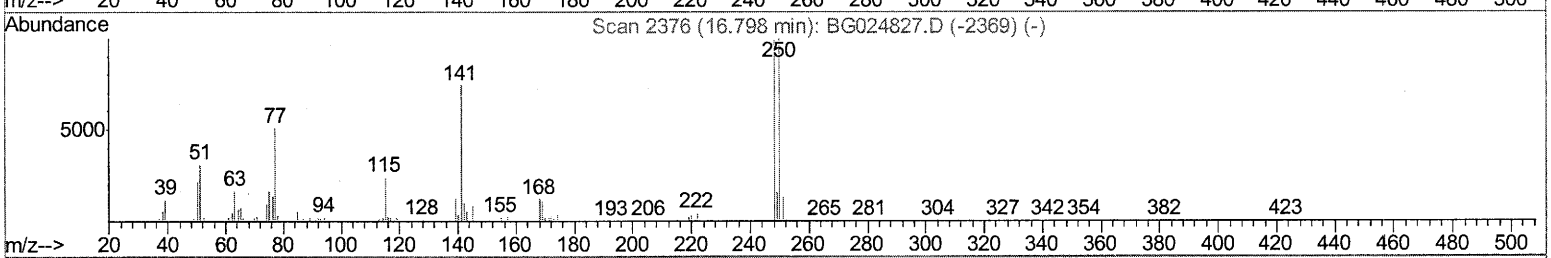
Quant Time: Nov 19 03:33:59 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Nov 19 00:07:29 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02018

Manual Integrations APPROVED
sohil
11/21/2016 3:41:55 PM







TIC: BG024840.D

(65) 4-Bromophenyl-phenylether

16.909min (+0.111) 0.44ng/ul

response 4315

Ion	Exp%	Act%
248.00	100	100
250.00	89.90	109.74#
141.00	67.30	202.37#
0.00	0.00	0.00

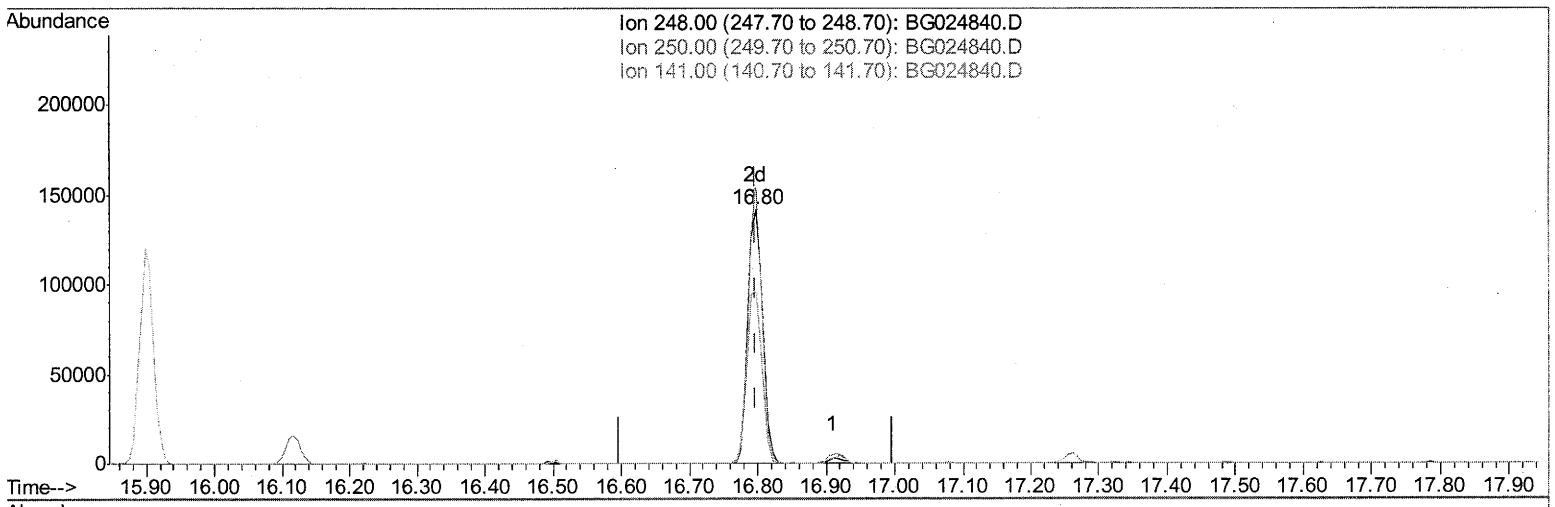
Quantitation Report (Qedit)

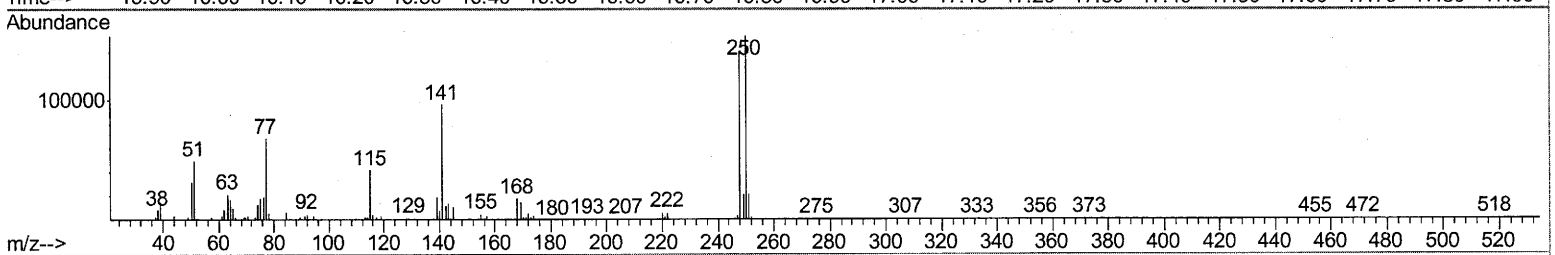
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111816\
Data File : BG024840.D
Acq On : 19 Nov 2016 00:54
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

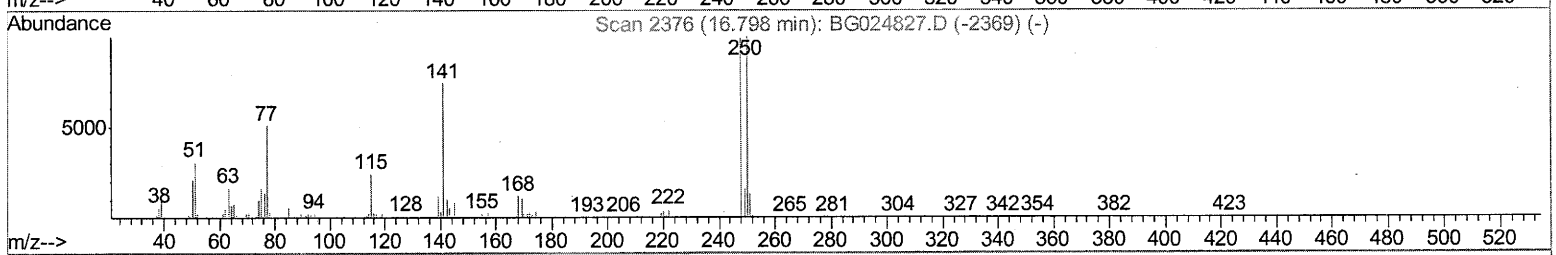
Quant Time: Nov 19 03:33:59 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Nov 19 00:07:29 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02018

Manual Integrations APPROVED
sohil
11/21/2016 3:41:55 PM







TIC: BG024840.D

(65) 4-Bromophenyl-phenylether

16.798min (-0.000) 21.47ng/ul m Um

response 208758 11/21/16

Ion	Exp%	Act%
248.00	100	100
250.00	89.90	108.57#
141.00	67.30	68.13
0.00	0.00	0.00

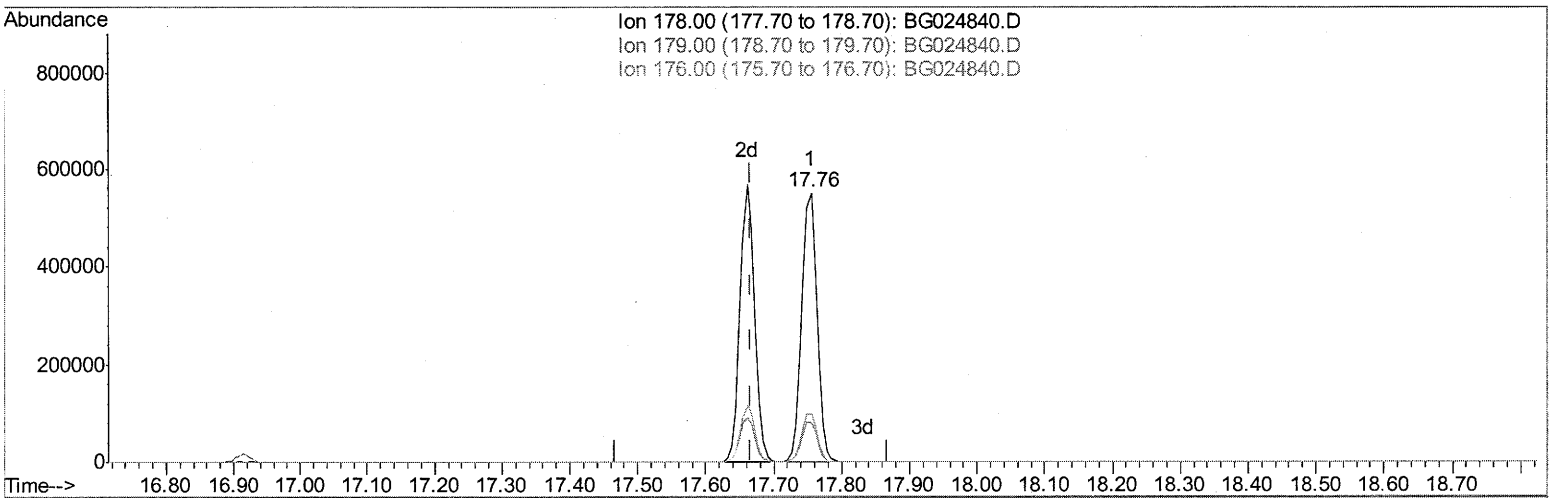
Quantitation Report (Qedit)

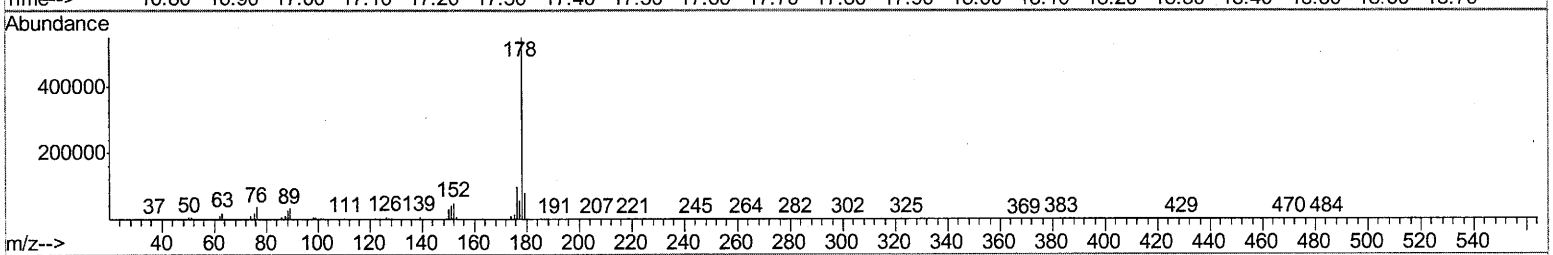
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111816\
Data File : BG024840.D
Acq On : 19 Nov 2016 00:54
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

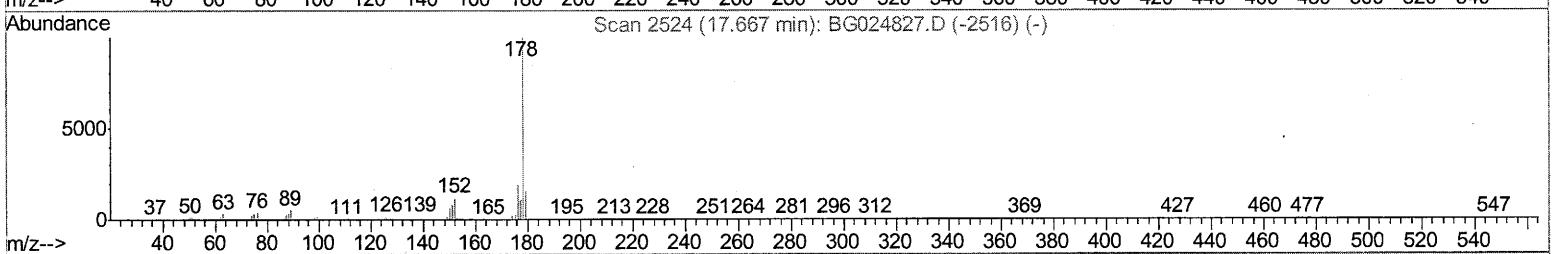
Quant Time: Nov 19 03:33:59 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Nov 19 00:07:29 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02018

Manual Integrations APPROVED
sohil
11/21/2016 3:41:55 PM







TIC: BG024840.D

(69) Phenanthrene

17.755min (+0.088) 21.71ng/ul

response 865302

Ion	Exp%	Act%
178.00	100	100
179.00	15.50	14.46
176.00	20.60	17.70
0.00	0.00	0.00

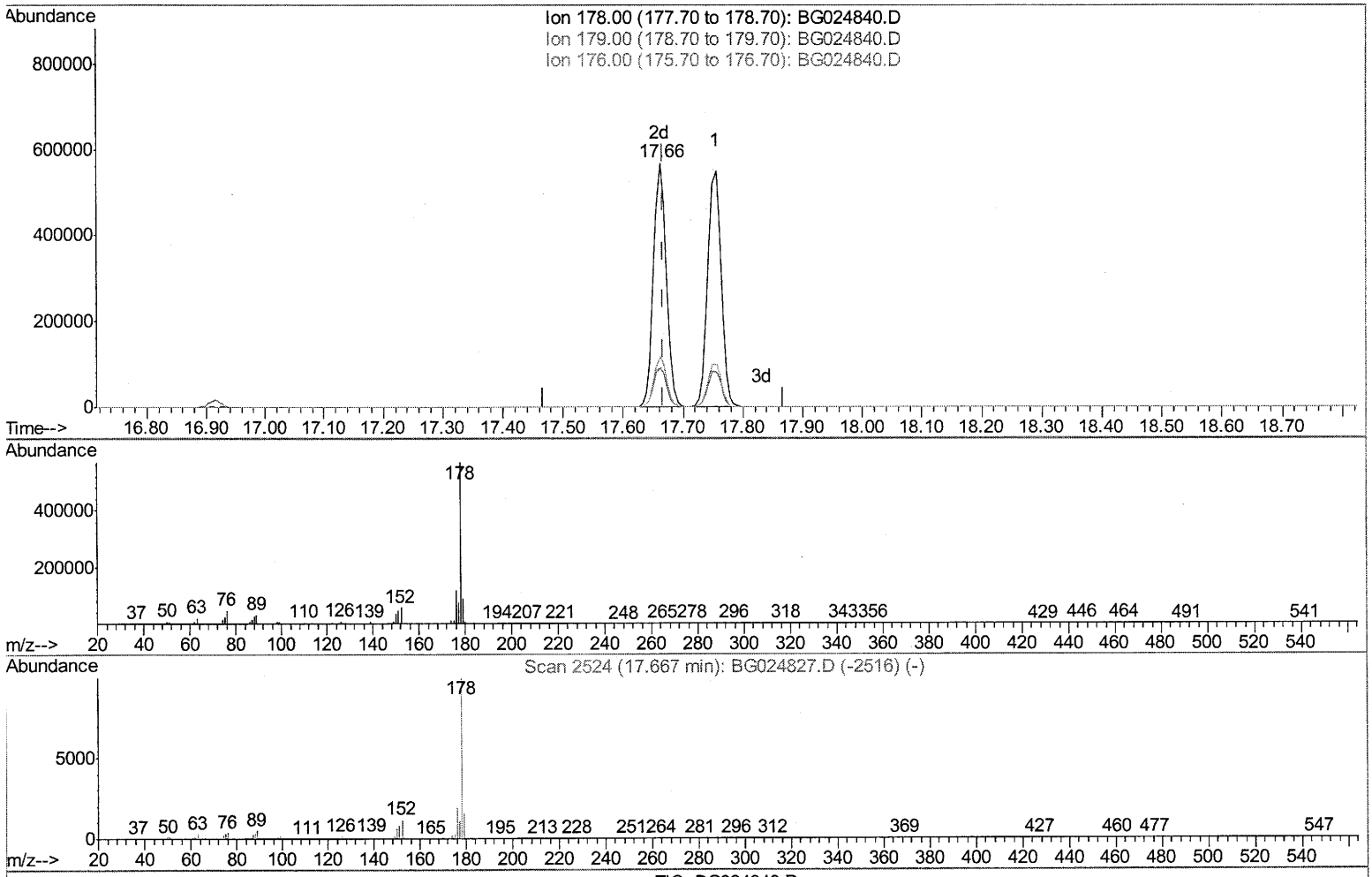
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111816\
Data File : BG024840.D
Acq On : 19 Nov 2016 00:54
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 19 03:33:59 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Nov 19 00:07:29 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02018

Manual Integrations APPROVED
sohil
11/21/2016 3:41:55 PM



TIC: BG024840.D

(69) Phenanthrene

17.661min (-0.006) 21.00ng/ul m

response 837005

UM
11/21/16

Ion	Exp%	Act%
178.00	100	100
179.00	15.50	15.78
176.00	20.60	20.27
0.00	0.00	0.00

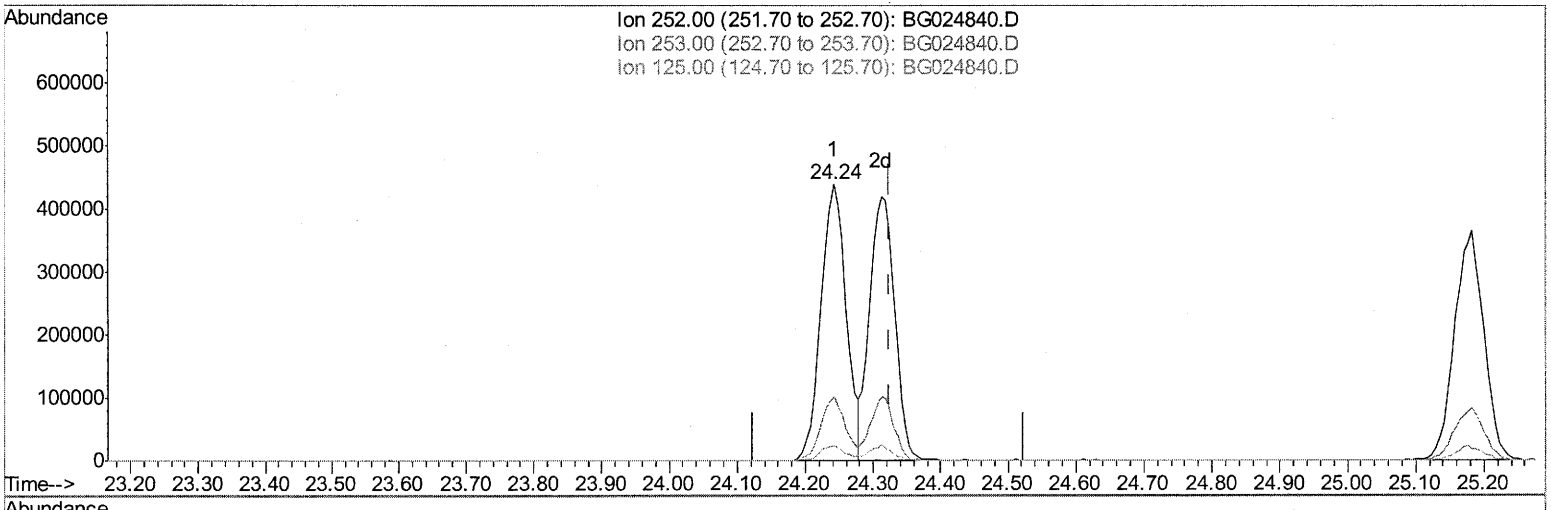
Quantitation Report (Qedit)

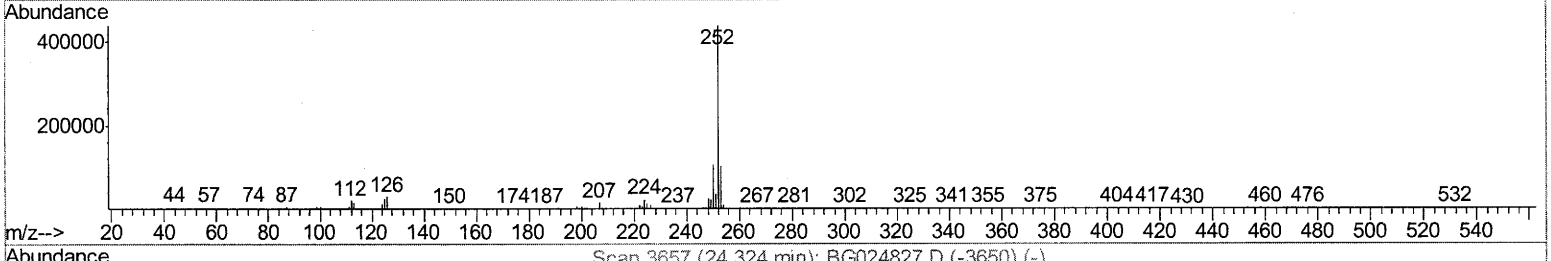
Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111816\
Data File : BG024840.D
Acq On : 19 Nov 2016 00:54
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

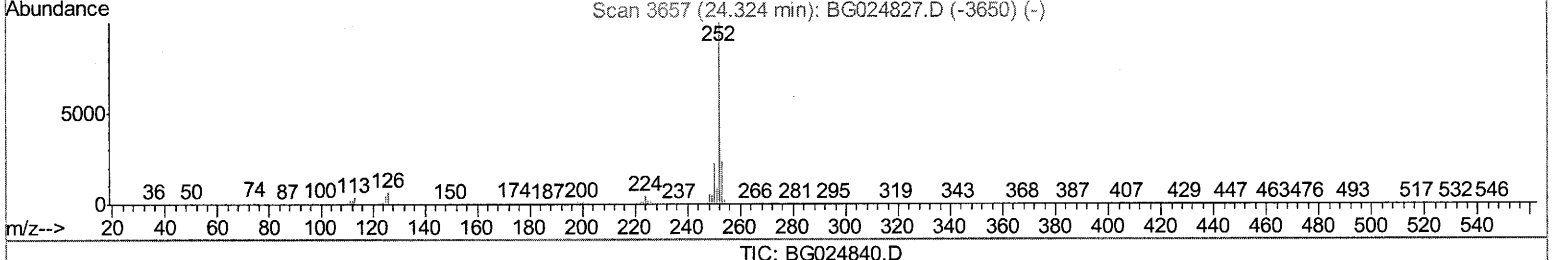
Quant Time: Nov 19 03:33:59 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Nov 19 00:07:29 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02018

Manual Integrations APPROVED
sohil
11/21/2016 3:41:55 PM







TIC: BG024840.D

(86) Benzo(k)fluoranthene

24.242min (-0.083) 22.21ng/ul

response 1134750

Ion	Exp%	Act%
252.00	100	100
253.00	23.10	23.22
125.00	5.10	5.36
0.00	0.00	0.00

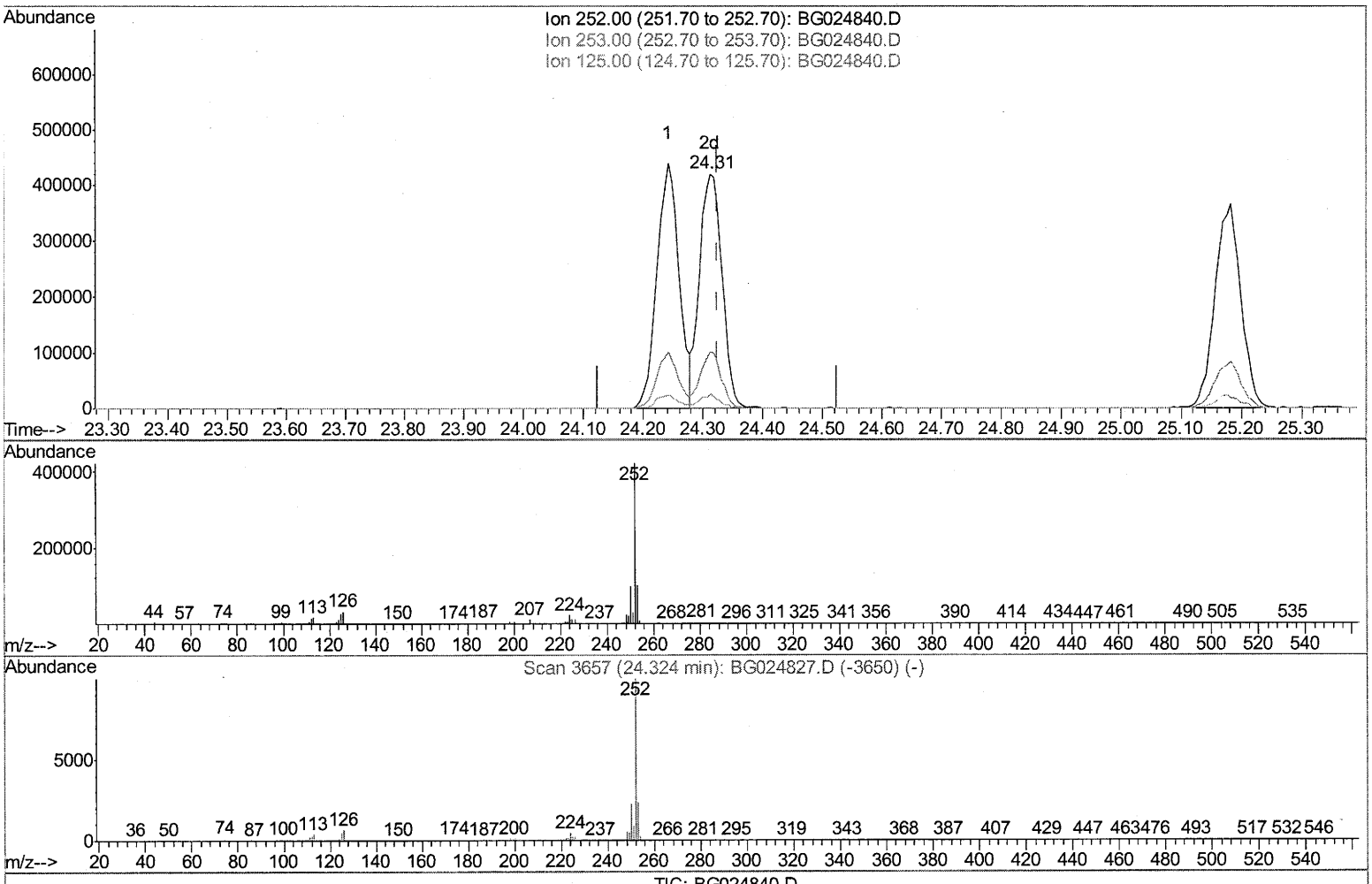
Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111816\
Data File : BG024840.D
Acq On : 19 Nov 2016 00:54
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 19 03:33:59 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Nov 19 00:07:29 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02018

Manual Integrations APPROVED
sohil
11/21/2016 3:41:55 PM



TIC: BG024840.D

(86) Benzo(k)fluoranthene

24.312min (-0.012) 21.42ng/ul m UM

response 1094480 11/21/16

Ion	Exp%	Act%
252.00	100	100
253.00	23.10	24.24
125.00	5.10	6.15#
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111816\
Data File : BG024840.D
Acq On : 19 Nov 2016 00:54
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 19 03:34:59 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Nov 19 00:07:29 2016
Response via : Initial Calibration

Instrument : BNA_G
LabSampleId : SSTD02018

Manual Integrations APPROVED
sohil
11/21/2016 3:41:55 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.26	152	99139	20.00	ng/ul	0.00
18) Naphthalene-d8	11.09	136	439720	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.88	164	368948	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.62	188	799580m	20.00	ng/ul	0.00
75) Chrysene-d12	21.92	240	981365	20.00	ng/ul	0.00
83) Perylene-d12	25.34	264	1021127	20.00	ng/ul	-0.01
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.62	96	15096	7.89	ng/uL	0.00
5) Phenol-d5	7.40	99	179583	21.14	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.57	67	111023	20.78	ng/ul	0.00
9) 2-Chlorophenol-d4	7.78	132	131008	21.51	ng/ul	0.00
13) 4-Methylphenol-d8	8.95	113	154857	21.71	ng/ul	0.00
19) Nitrobenzene-d5	9.44	128	67962	20.41	ng/ul	0.00
22) 2-Nitrophenol-d4	10.16	143	83072	20.90	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.70	165	163026	20.61	ng/ul	0.00
29) 4-Chloroaniline-d4	11.22	131	189420	21.43	ng/ul	-0.01
43) Dimethylphthalate-d6	14.27	166	546543	20.32	ng/ul	0.00
46) Acenaphthylene-d8	14.58	160	629813	21.49	ng/ul	0.00
51) 4-Nitrophenol-d4	15.05	143	85885	17.94	ng/ul	0.00
57) Fluorene-d10	15.86	176	518540	20.48	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.97	200	99919	18.18	ng/ul	0.00
70) Anthracene-d10	17.72	188	743127	21.04	ng/ul	0.00
76) Pyrene-d10	19.99	212	889101	20.89	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.10	264	945422	21.15	ng/ul	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.65	88	16406	6.84	ng/uL#	78
4) Benzaldehyde	7.39	77	131502	24.04	ng/ul	92
6) Phenol	7.42	94	180345	20.33	ng/ul	96
8) Bis(2-Chloroethyl)ether	7.67	93	132934	21.05	ng/ul	91
10) 2-Chlorophenol	7.82	128	127703	21.68	ng/ul	89
11) 2-Methylphenol	8.69	108	137052	21.09	ng/ul	83
12) 2,2'-oxybis(1-Chloropropan	8.78	45	236925	22.10	ng/ul	97
14) Acetophenone	9.08	105	226749	21.11	ng/ul	96
15) N-Nitroso-di-n-propylamine	9.05	70	128073	20.99	ng/ul	89
16) 4-Methylphenol	9.02	108	146488	20.83	ng/ul	96
17) Hexachloroethane	9.35	117	58986	21.87	ng/ul	93
20) Nitrobenzene	9.48	77	204082	20.65	ng/ul	97
21) Isophorone	9.99	82	365175	19.81	ng/ul	97
23) 2-Nitrophenol	10.19	139	84653	21.08	ng/ul	88
24) 2,4-Dimethylphenol	10.23	107	188121	19.73	ng/ul	98
25) Bis(2-Chloroethoxy)methane	10.47	93	192489	19.88	ng/ul	96
27) 2,4-Dichlorophenol	10.72	162	159416	21.03	ng/ul	95
28) Naphthalene	11.14	128	440284	20.88	ng/ul#	96
30) 4-Chloroaniline	11.24	127	187194	21.96	ng/ul	95
31) Hexachlorobutadiene	11.40	225	136212	20.47	ng/ul	90
32) Caprolactam	11.99	113	58961	19.73	ng/ul#	72
33) 4-Chloro-3-methylphenol	12.34	107	189387	20.63	ng/ul	99
34) 2-Methylnaphthalene	12.72	142	359561	21.66	ng/ul	95

UM 11/21/16

Quantitation Report (QT Reviewed)

Data Path : Z:\HPCHEM1\BNA_G\DATA\BG111816\
Data File : BG024840.D
Acq On : 19 Nov 2016 00:54
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 19 03:34:59 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG111416.M
Quant Title : SVOA CALIBRATION
QLast Update : Sat Nov 19 00:07:29 2016
Response via : Initial Calibration

Instrument : BNA_G
LabSampleId : SSTD02018

Manual Integrations APPROVED
sohil
11/21/2016 3:41:55 PM

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
36) 1,2,4,5-Tetrachlorobenzene	13.08	216	252671	21.11 ng/ul	94
37) Hexachlorocyclopentadiene	13.05	237	146714	19.02 ng/ul	95
38) 2,4,6-Trichlorophenol	13.31	196	154547	21.22 ng/ul	91
39) 2,4,5-Trichlorophenol	13.38	196	167857	21.21 ng/ul	96
40) 1,1'-Biphenyl	13.71	154	488846	20.59 ng/ul	98
41) 2-Chloronaphthalene	13.77	162	393796	21.34 ng/ul	97
42) 2-Nitroaniline	13.97	65	153790	21.02 ng/ul	92
44) Dimethylphthalate	14.31	163	509359	19.74 ng/ul	99
45) 2,6-Dinitrotoluene	14.45	165	116662	21.51 ng/ul	96
47) Acenaphthylene	14.60	152	606506	21.37 ng/ul	97
48) 3-Nitroaniline	14.78	138	106376	21.22 ng/ul#	98
49) Acenaphthene	14.94	153	422038	21.01 ng/ul	99
50) 2,4-Dinitrophenol	14.99	184	62233	16.03 ng/ul	85
52) 4-Nitrophenol	15.07	109	105830	18.47 ng/ul	98
53) Dibenzofuran	15.27	168	656848	21.37 ng/ul	98
54) 2,4-Dinitrotoluene	15.23	165	168254	20.51 ng/ul#	91
55) 2,3,4,6-Tetrachlorophenol	15.49	232	168002	20.40 ng/ul#	93
56) Diethylphthalate	15.66	149	539555	19.68 ng/ul	96
58) Fluorene	15.92	166	516748	20.71 ng/ul	92
59) 4-Chlorophenyl-phenylether	15.90	204	286418	20.30 ng/ul	87
60) 4-Nitroaniline	15.94	138	107739	18.89 ng/ul	97
63) 4,6-Dinitro-2-methylphenol	15.99	198	104057m	18.67 ng/ul	
64) N-Nitrosodiphenylamine	16.12	169	466979	21.62 ng/ul	90
65) 4-Bromophenyl-phenylether	16.80	248	208758m	21.47 ng/ul	
66) Hexachlorobenzene	16.92	284	237762	22.10 ng/ul	97
67) Atrazine	17.05	200	203137	20.06 ng/ul	97
68) Pentachlorophenol	17.26	266	127196	20.02 ng/ul	92
69) Phenanthrene	17.66	178	837005m	21.00 ng/ul	
71) Anthracene	17.76	178	864635	20.97 ng/ul	96
72) Carbazole	18.02	167	727444	21.51 ng/ul	96
73) Di-n-butylphthalate	18.54	149	869547	20.40 ng/ul	100
74) Fluoranthene	19.65	202	1035270	22.36 ng/ul	98
77) Pyrene	20.02	202	1035536	21.47 ng/ul	97
78) Butylbenzylphthalate	20.88	149	414842	21.01 ng/ul	96
79) 3,3'-Dichlorobenzidine	21.80	252	419819	22.25 ng/ul	95
80) Benzo(a)anthracene	21.89	228	1132628	21.21 ng/ul	97
81) Bis(2-ethylhexyl)phthalate	21.75	149	574048	21.25 ng/ul#	96
82) Chrysene	21.96	228	1058741	21.14 ng/ul	98
84) Di-n-octyl phthalate	23.03	149	996609	23.06 ng/ul	100
85) Benzo(b)fluoranthene	24.24	252	1134750	21.09 ng/ul	98
86) Benzo(k)fluoranthene	24.31	252	1094480m	21.42 ng/ul	
88) Benzo(a)pyrene	25.18	252	1095627	21.04 ng/ul#	98
89) Indeno(1,2,3-cd)pyrene	29.28	276	1367367	21.00 ng/ul	98
90) Dibenzo(a,h)anthracene	29.35	278	1149563	21.19 ng/ul	97
91) Benzo(g,h,i)perylene	30.52	276	1115181	20.80 ng/ul	95

UM 11/21/16

UM 11/21/16

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