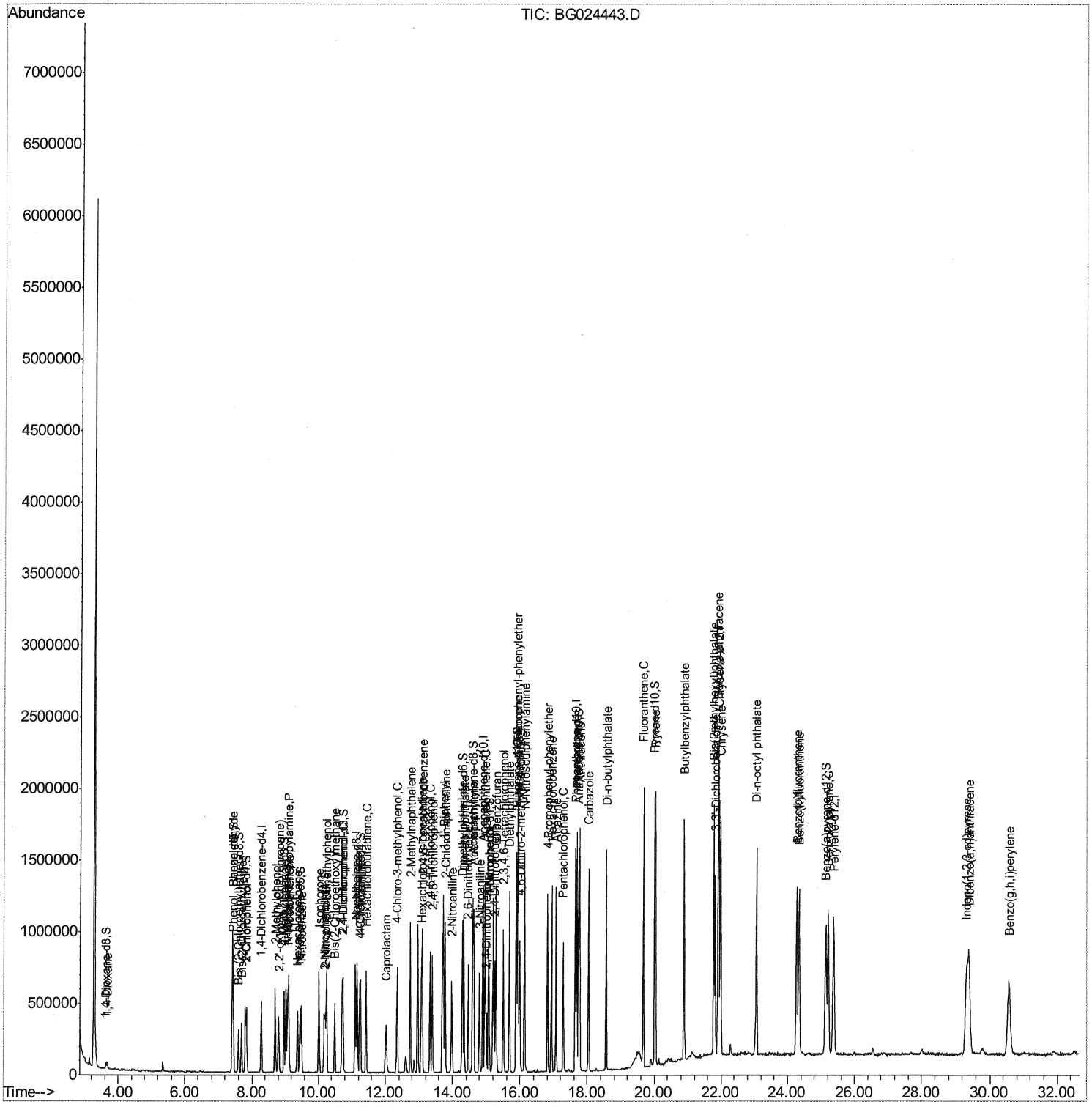
Data Path : Z:\HPCHEM1\BNA_G\Data\BG101916\
Data File : BG024443.D
Acq On : 19 Oct 2016 15:24
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 19 18:14:25 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG0100716.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Oct 19 10:58:30 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02005

Manual Integrations APPROVED
Umangi
10/20/2016 6:43:59 PM

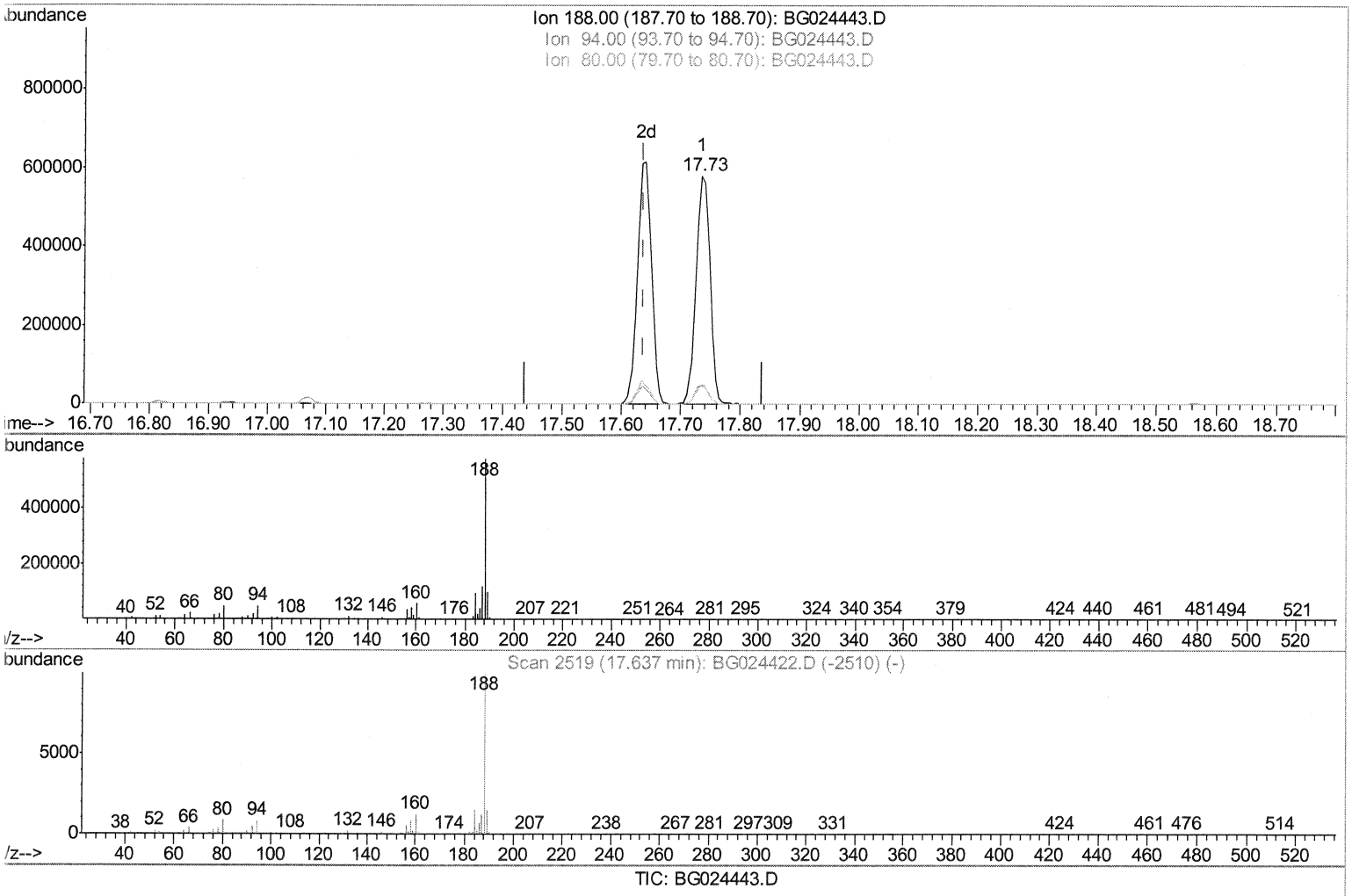


Data Path : Z:\HPCHEM1\BNA_G\Data\BG101916\
Data File : BG024443.D
Acq On : 19 Oct 2016 15:24
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 19 17:29:49 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG0100716.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Oct 19 10:58:30 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02005

Manual Integrations APPROVED
Umangi
10/20/2016 6:43:59 PM



TIC: BG024443.D

(61) Phenanthrene-d10 (I)

17.735min (+0.097) 20.00ng/ul

response 941657

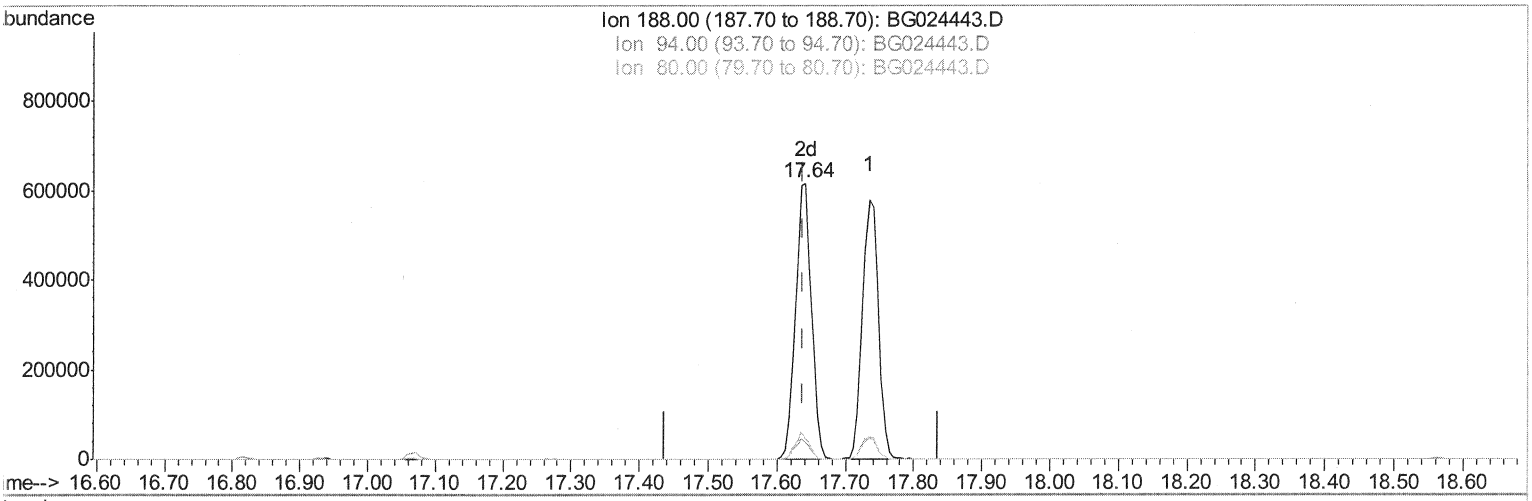
Ion	Exp%	Act%
188.00	100	100
94.00	8.80	8.30
80.00	9.50	8.55
0.00	0.00	0.00

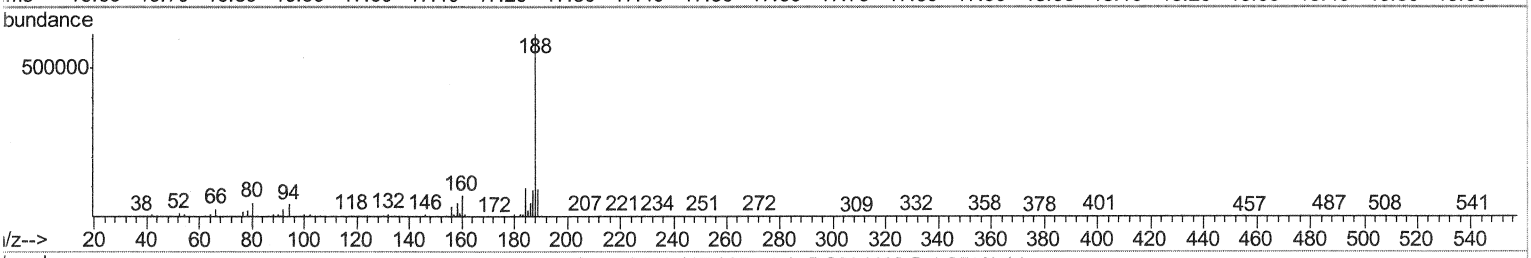
Data Path : Z:\HPCHEM1\BNA_G\Data\BG101916\
Data File : BG024443.D
Acq On : 19 Oct 2016 15:24
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

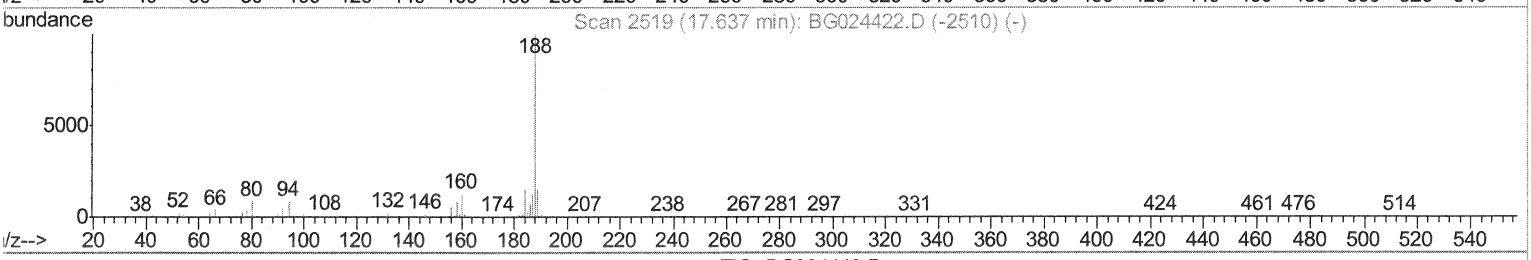
Quant Time: Oct 19 17:29:49 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG0100716.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Oct 19 10:58:30 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02005

Manual Integrations APPROVED
Umangi
10/20/2016 6:43:59 PM







TIC: BG024443.D

(61) Phenanthrene-d10 (I)

17.641min (+0.003) 20.00ng/ul m SJ 10/20/16

response 992970

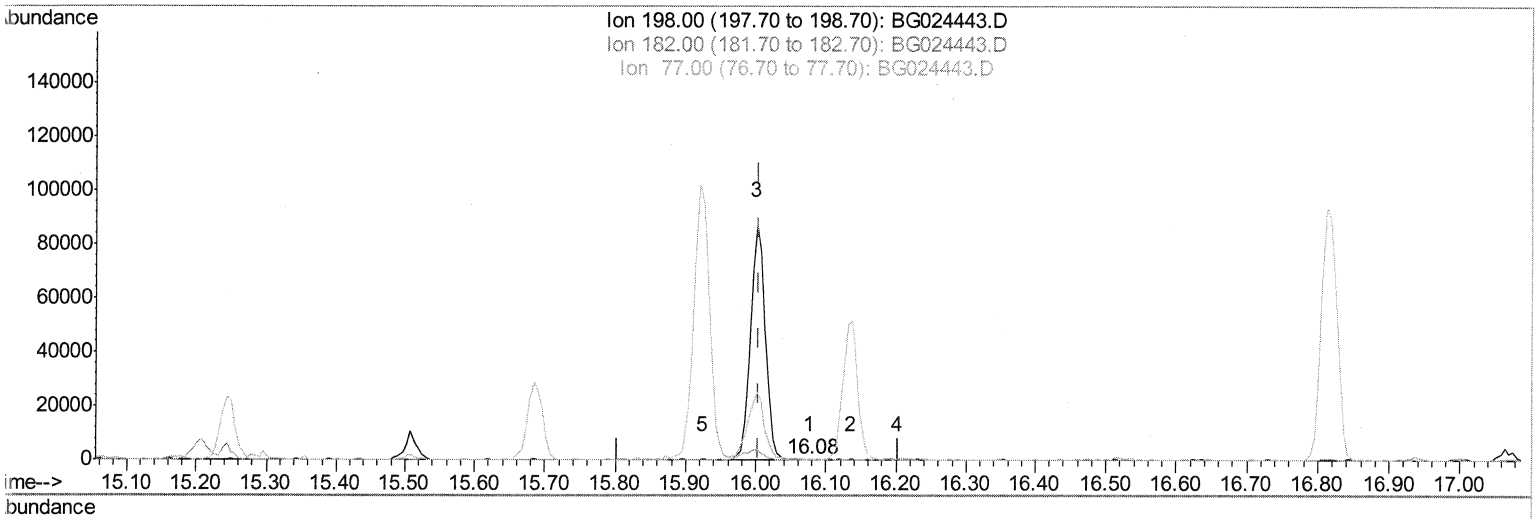
Ion	Exp%	Act%
188.00	100	100
94.00	8.80	6.59#
80.00	9.50	7.73
0.00	0.00	0.00

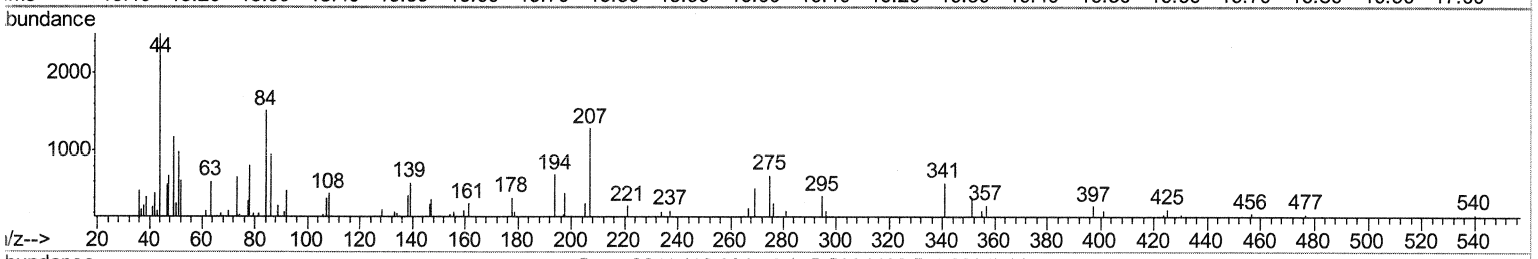
Data Path : Z:\HPCHEM1\BNA_G\Data\BG101916\
Data File : BG024443.D
Acq On : 19 Oct 2016 15:24
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

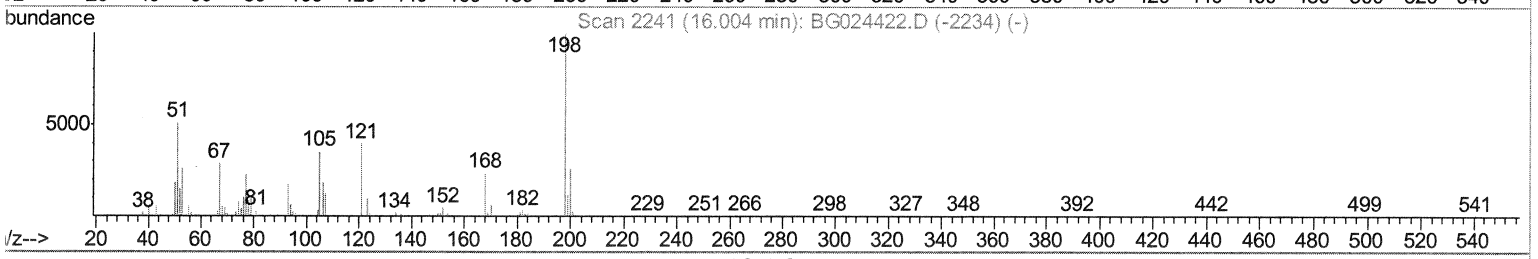
Quant Time: Oct 19 18:12:03 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG0100716.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Oct 19 10:58:30 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02005

Manual Integrations APPROVED
Umangi
10/20/2016 6:43:59 PM







TIC: BG024443.D

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

16.078min (+0.074) 0.03ng/ul

response 164

Ion	Exp%	Act%
198.00	100	100
182.00	6.10	0.00#
77.00	28.00	78.97#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG101916\
Data File : BG024443.D
Acq On : 19 Oct 2016 15:24
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 19 18:12:03 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG0100716.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Oct 19 10:58:30 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02005

Manual Integrations APPROVED
Umangi
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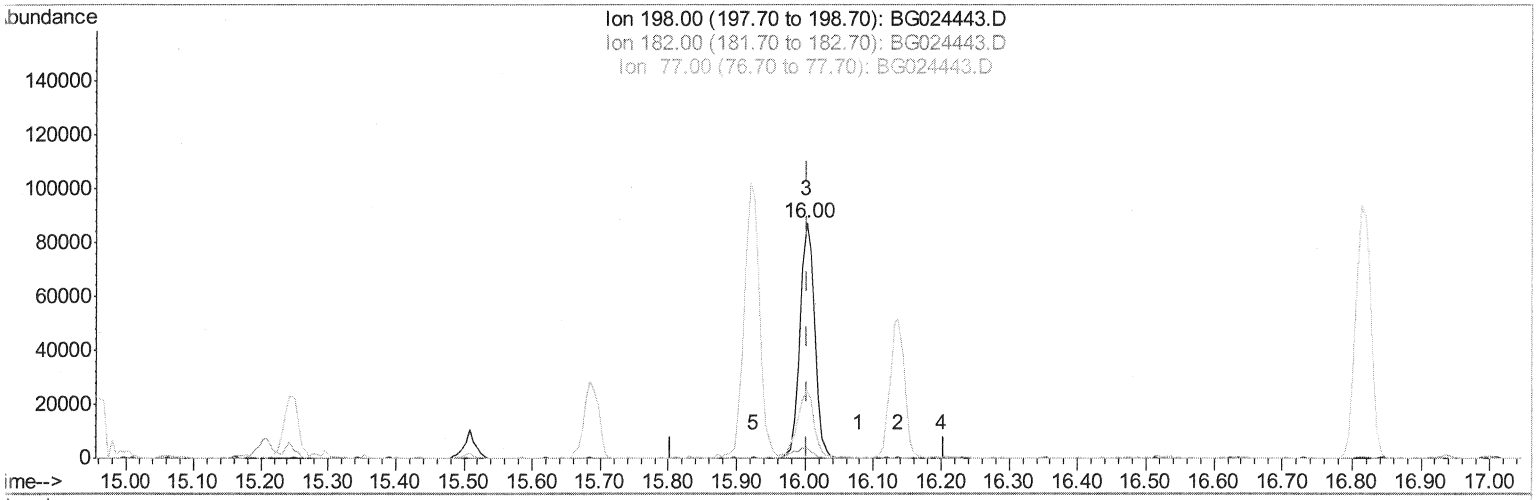
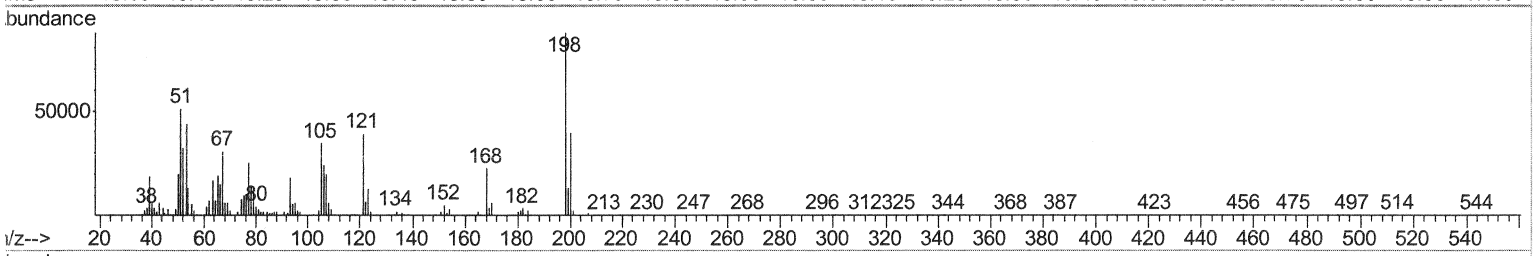
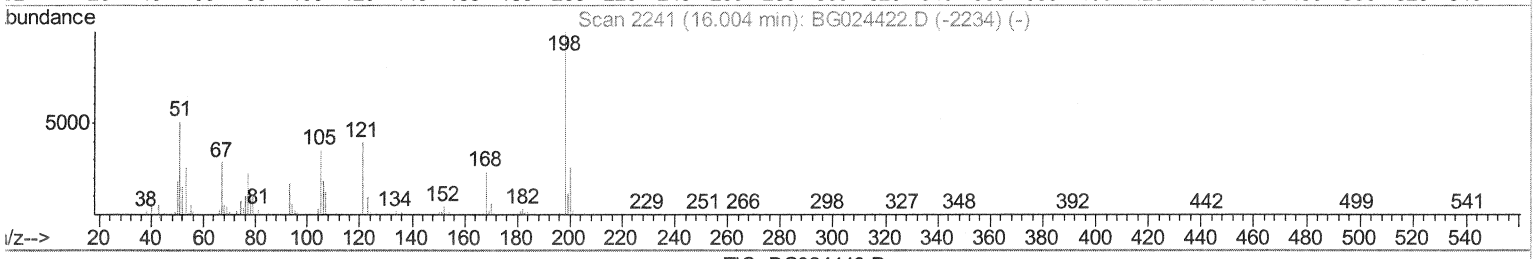






TIC: BG024443.D

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

16.001min (-0.002) 20.92ng/ul m SJ 10/20/16

response 130860

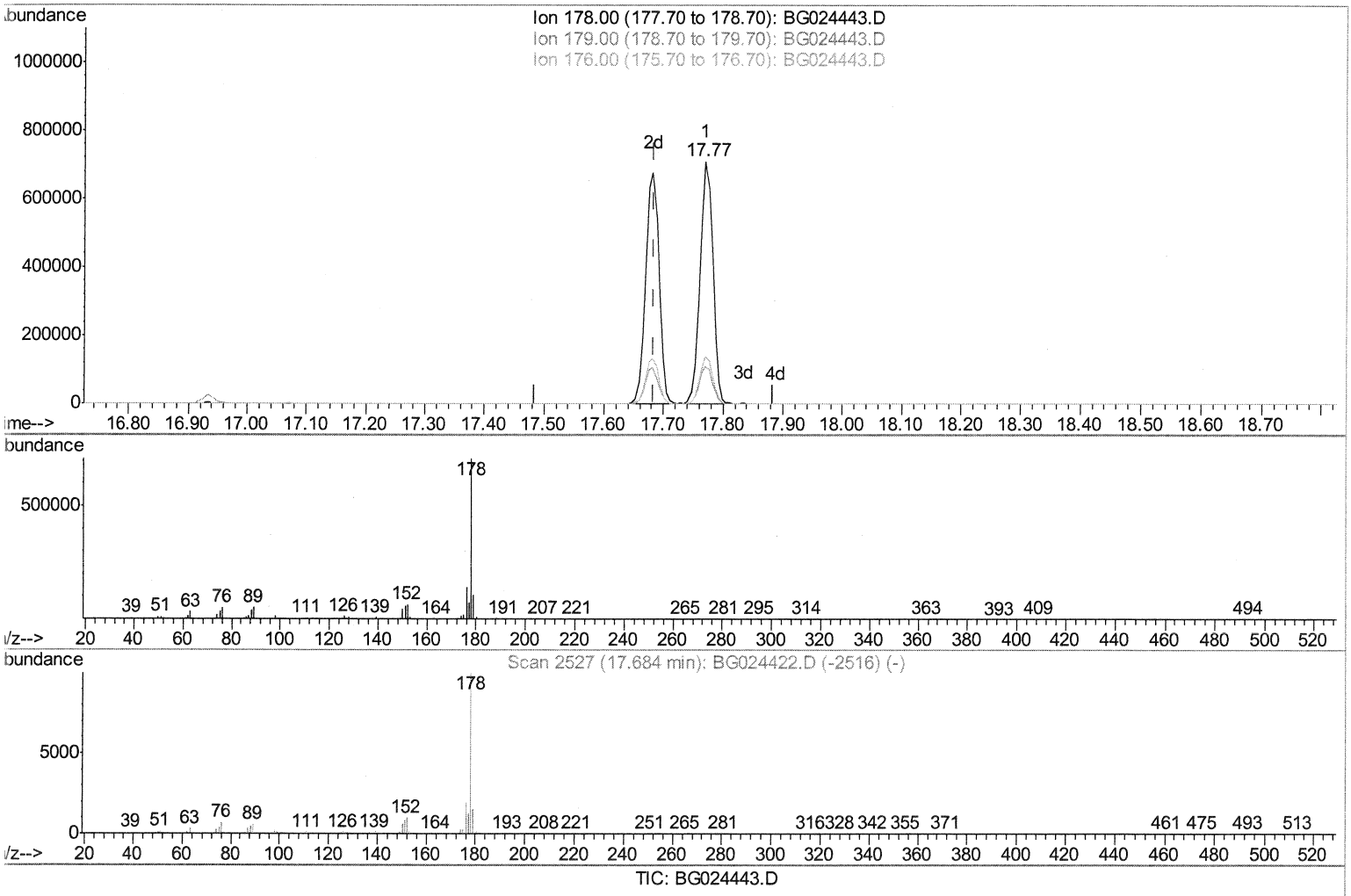
Ion	Exp%	Act%
198.00	100	100
182.00	6.10	4.05#
77.00	28.00	28.70
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG101916\
Data File : BG024443.D
Acq On : 19 Oct 2016 15:24
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 19 18:12:03 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG0100716.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Oct 19 10:58:30 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02005

Manual Integrations APPROVED
Umangi
10/20/2016 6:43:59 PM



TIC: BG024443.D

(69) Phenanthrene

17.770min (+0.086) 21.28ng/ul

response 1066795

Ion	Exp%	Act%
178.00	100	100
179.00	15.50	15.34
176.00	20.60	19.64
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG101916\
Data File : BG024443.D
Acq On : 19 Oct 2016 15:24
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 19 18:12:03 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG0100716.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Oct 19 10:58:30 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02005

Manual Integrations APPROVED
Umangi
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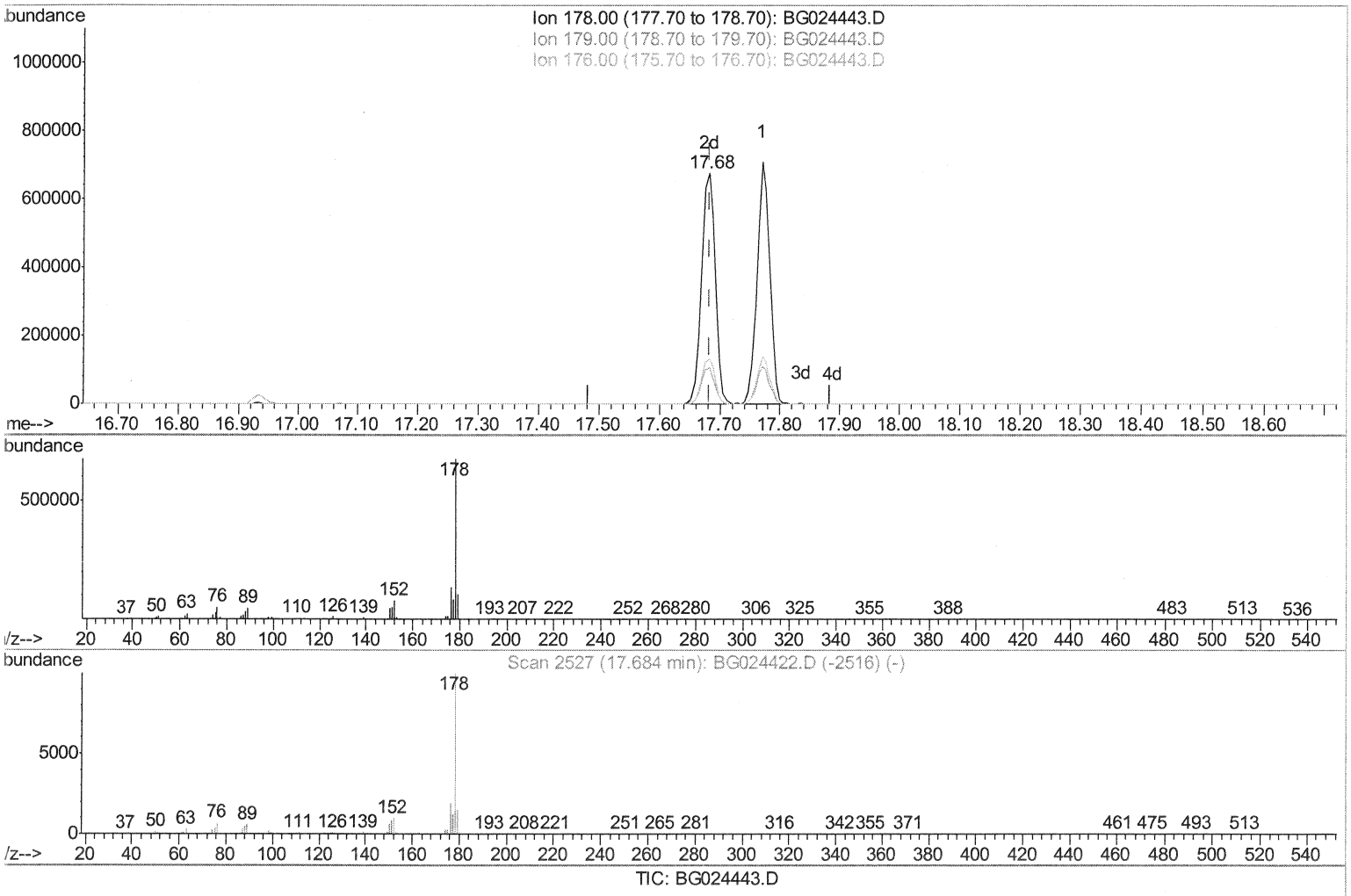

TIC: BG024443.D

(69) Phenanthrene

17.682min (-0.002) 21.27ng/ul m SJ 10/20/16

response 1066232

Ion	Exp%	Act%
178.00	100	100
179.00	15.50	15.53
176.00	20.60	19.57
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : Z:\HPCHEM1\BNA_G\Data\BG101916\
Data File : BG024443.D
Acq On : 19 Oct 2016 15:24
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 19 18:12:03 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG0100716.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Oct 19 10:58:30 2016
Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02005

Manual Integrations APPROVED
Umangi
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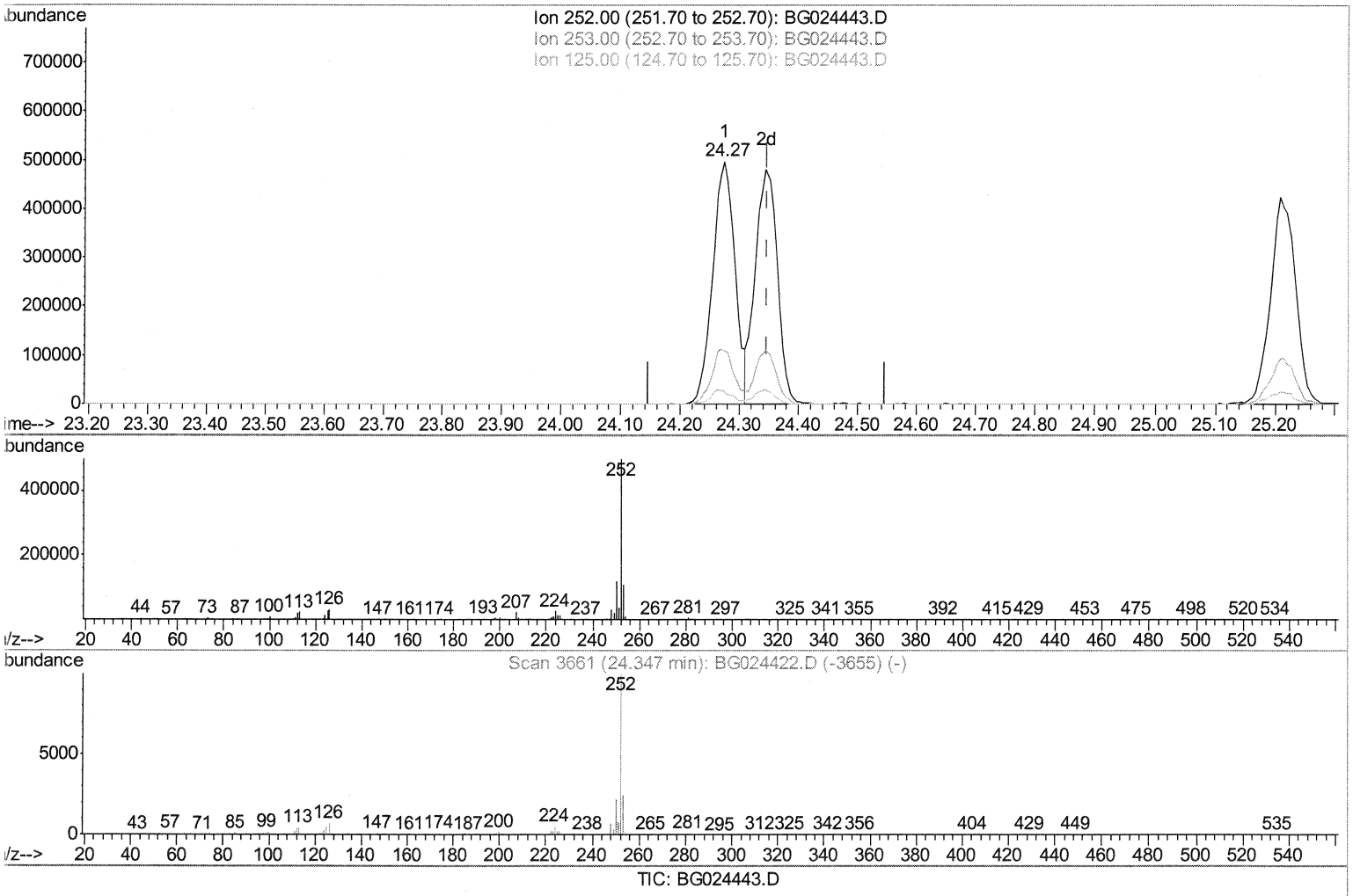

TIC: BG024443.D

(86) Benzo(k)fluoranthene

24.274min (-0.073) 21.51ng/ul

response 1312785

Ion	Exp%	Act%
252.00	100	100
253.00	23.10	21.84
125.00	5.10	5.54
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG101916\
Data File : BG024443.D
Acq On : 19 Oct 2016 15:24
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 19 18:12:03 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG0100716.M
Quant Title : SVOA CALIBRATION
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Response via : Initial Calibration

Instrument :
BNA_G
LabSampleId :
SSTD02005

Manual Integrations APPROVED
Umangi
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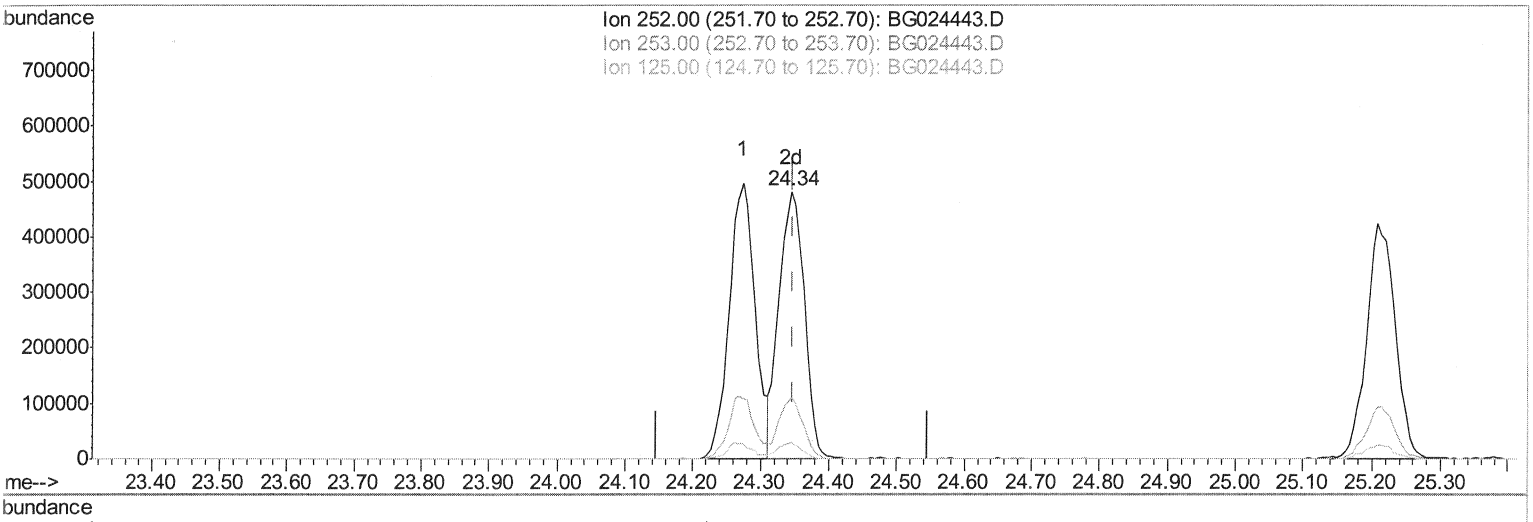

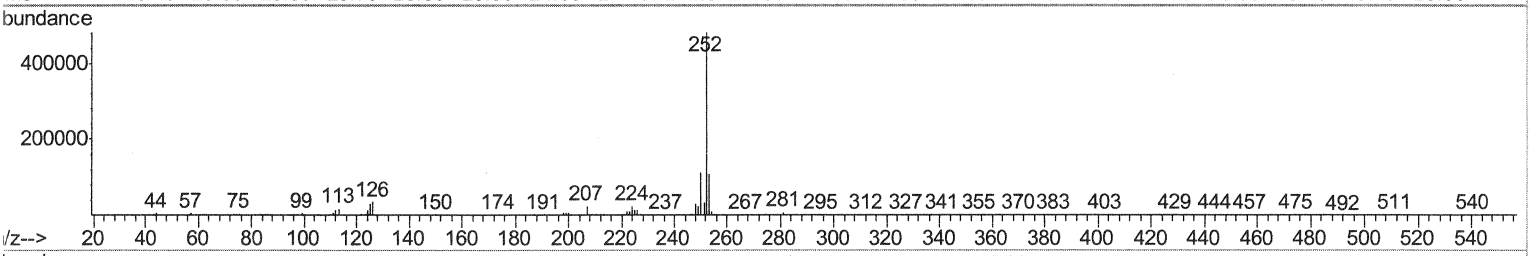

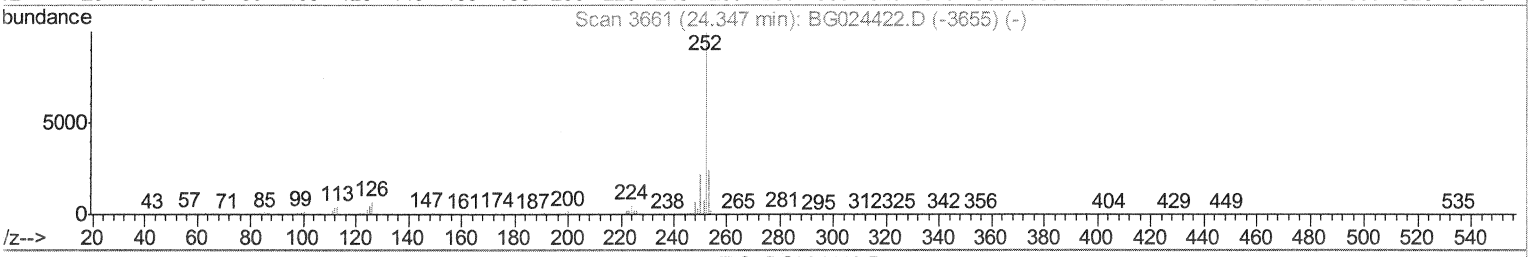

TIC: BG024443.D

(86) Benzo(k)fluoranthene

24.345min (-0.002) 20.40ng/ul m SJ 10/20/16

response 1245240

Ion	Exp%	Act%
252.00	100	100
253.00	23.10	22.94
125.00	5.10	6.21#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_G\Data\BG101916\
Data File : BG024443.D
Acq On : 19 Oct 2016 15:24
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 19 18:14:25 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG0100716.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Oct 19 10:58:30 2016
Response via : Initial Calibration

Instrument : BNA_G
LabSampleId : SSTD02005

Manual Integrations APPROVED
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SJ 10/20/16

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.28	152	126398	20.00	ng/ul	0.00
18) Naphthalene-d8	11.11	136	590302	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.90	164	475043	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.64	188	992970m	20.00	ng/ul	0.00
75) Chrysene-d12	21.94	240	1106131	20.00	ng/ul	0.00
83) Perylene-d12	25.38	264	1141482	20.00	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	3.64	96	21748	8.17	ng/uL	0.00
5) Phenol-d5	7.41	99	257030	21.79	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.60	67	155789	19.54	ng/ul	0.00
9) 2-Chlorophenol-d4	7.81	132	173537	21.37	ng/ul	0.00
13) 4-Methylphenol-d8	8.97	113	214183	22.47	ng/ul	0.00
19) Nitrobenzene-d5	9.46	128	96095	22.94	ng/ul	0.00
22) 2-Nitrophenol-d4	10.18	143	111501	23.79	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.71	165	215608	21.12	ng/ul	0.00
29) 4-Chloroaniline-d4	11.24	131	248749	23.19	ng/ul	0.00
43) Dimethylphthalate-d6	14.29	166	690162	20.81	ng/ul	0.00
46) Acenaphthylene-d8	14.60	160	836445	22.01	ng/ul	0.00
51) 4-Nitrophenol-d4	15.06	143	117321	19.95	ng/ul	0.00
57) Fluorene-d10	15.88	176	664197	21.18	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.99	200	132944	22.28	ng/ul	0.00
70) Anthracene-d10	17.73	188	941500	20.99	ng/ul	0.00
76) Pyrene-d10	20.00	212	1060947	20.55	ng/ul	0.00
87) Benzo(a)pyrene-d12	25.14	264	1080659	21.04	ng/ul	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.67	88	23463	8.14	ng/uL#	84
4) Benzaldehyde	7.41	77	192957	23.25	ng/ul	99
6) Phenol	7.44	94	262328	21.92	ng/ul	91
8) Bis(2-Chloroethyl)ether	7.69	93	186778	21.20	ng/ul	97
10) 2-Chlorophenol	7.84	128	172695	20.98	ng/ul	86
11) 2-Methylphenol	8.71	108	186413	21.03	ng/ul	93
12) 2,2'-oxybis(1-Chloropropan	8.81	45	332037	18.87	ng/ul	97
14) Acetophenone	9.11	105	308547	21.79	ng/ul	95
15) N-Nitroso-di-n-propylamine	9.09	70	176110	20.63	ng/ul#	93
16) 4-Methylphenol	9.03	108	207873	22.11	ng/ul	94
17) Hexachloroethane	9.37	117	78917	20.73	ng/ul	96
20) Nitrobenzene	9.50	77	278418	21.00	ng/ul	96
21) Isophorone	10.01	82	519948	21.58	ng/ul#	98
23) 2-Nitrophenol	10.21	139	109146	21.37	ng/ul#	83
24) 2,4-Dimethylphenol	10.25	107	267609	21.26	ng/ul	93
25) Bis(2-Chloroethoxy)methane	10.50	93	274506	20.78	ng/ul	94
27) 2,4-Dichlorophenol	10.74	162	216274	22.10	ng/ul	97
28) Naphthalene	11.16	128	587906	20.68	ng/ul	100
30) 4-Chloroaniline	11.27	127	250957	23.06	ng/ul	92
31) Hexachlorobutadiene	11.43	225	174919	22.32	ng/ul	91
32) Caprolactam	12.02	113	78385	21.07	ng/ul	99
33) 4-Chloro-3-methylphenol	12.35	107	248934	20.79	ng/ul	96
34) 2-Methylnaphthalene	12.75	142	484738	21.45	ng/ul	93

Data Path : Z:\HPCHEM1\BNA_G\Data\BG101916\
Data File : BG024443.D
Acq On : 19 Oct 2016 15:24
Operator : UM/SJ
Sample : SSTDCCC020
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Oct 19 18:14:25 2016
Quant Method : Z:\HPCHEM1\BNA_G\METHODS\SOM02.2-EPA-BG0100716.M
Quant Title : SVOA CALIBRATION
QLast Update : Wed Oct 19 10:58:30 2016
Response via : Initial Calibration

Instrument : BNA_G
LabSampleId : SSTD02005

Manual Integrations APPROVED
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
36) 1,2,4,5-Tetrachlorobenzene	13.10	216	324528	23.17	ng/ul#	92	
37) Hexachlorocyclopentadiene	13.08	237	204209	19.88	ng/ul	94	
38) 2,4,6-Trichlorophenol	13.33	196	201955	22.23	ng/ul	92	
39) 2,4,5-Trichlorophenol	13.40	196	222565	22.30	ng/ul	100	
40) 1,1'-Biphenyl	13.73	154	675739	21.96	ng/ul	96	
41) 2-Chloronaphthalene	13.78	162	530860	22.01	ng/ul	98	
42) 2-Nitroaniline	13.98	65	201642	21.97	ng/ul	95	
44) Dimethylphthalate	14.34	163	674555	20.74	ng/ul	99	
45) 2,6-Dinitrotoluene	14.46	165	142838	22.64	ng/ul	92	
47) Acenaphthylene	14.63	152	801835	21.93	ng/ul	99	
48) 3-Nitroaniline	14.80	138	136341	22.87	ng/ul#	80	
49) Acenaphthene	14.96	153	551129	21.09	ng/ul	98	
50) 2,4-Dinitrophenol	15.00	184	87167	20.59	ng/ul	82	
52) 4-Nitrophenol	15.08	109	147778	20.74	ng/ul	91	
53) Dibenzofuran	15.29	168	818913	21.29	ng/ul	97	
54) 2,4-Dinitrotoluene	15.24	165	210740	22.54	ng/ul#	90	
55) 2,3,4,6-Tetrachlorophenol	15.51	232	212857	21.72	ng/ul#	94	
56) Diethylphthalate	15.68	149	694088	20.24	ng/ul	98	
58) Fluorene	15.94	166	651593	20.49	ng/ul	95	
59) 4-Chlorophenyl-phenylether	15.92	204	366301	20.75	ng/ul	88	
60) 4-Nitroaniline	15.95	138	141010	20.54	ng/ul	91	SJ 10/20/16
63) 4,6-Dinitro-2-methylphenol	16.00	198	130860m	20.92	ng/ul		
64) N-Nitrosodiphenylamine	16.14	169	590835	21.04	ng/ul	97	
65) 4-Bromophenyl-phenylether	16.82	248	253612	22.05	ng/ul	97	
66) Hexachlorobenzene	16.94	284	289046	22.52	ng/ul#	93	
67) Atrazine	17.07	200	246188	21.43	ng/ul	93	
68) Pentachlorophenol	17.28	266	175809	22.54	ng/ul	89	
69) Phenanthrene	17.68	178	1066232m	21.27	ng/ul		SJ 10/20/16
71) Anthracene	17.77	178	1062680	20.82	ng/ul	99	
72) Carbazole	18.03	167	894043	22.33	ng/ul	97	
73) Di-n-butylphthalate	18.57	149	1084683	22.15	ng/ul	99	
74) Fluoranthene	19.67	202	1223669	24.16	ng/ul	98	
77) Pyrene	20.04	202	1204346	20.38	ng/ul	98	
78) Butylbenzylphthalate	20.90	149	485230	20.44	ng/ul	97	
79) 3,3'-Dichlorobenzidine	21.82	252	467593	22.70	ng/ul	93	
80) Benzo(a)anthracene	21.91	228	1293195	21.07	ng/ul	98	
81) Bis(2-ethylhexyl)phthalate	21.78	149	688151	20.50	ng/ul	99	
82) Chrysene	21.98	228	1249558	21.38	ng/ul	98	
84) Di-n-octyl phthalate	23.06	149	1204361	22.49	ng/ul	100	
85) Benzo(b)fluoranthene	24.27	252	1312785	20.71	ng/ul	99	
86) Benzo(k)fluoranthene	24.34	252	1245240m	20.40	ng/ul		SJ 10/20/16
88) Benzo(a)pyrene	25.21	252	1242162	20.58	ng/ul	98	
89) Indeno(1,2,3-cd)pyrene	29.33	276	1559177	21.81	ng/ul	99	
90) Dibenzo(a,h)anthracene	29.40	278	1306391	21.61	ng/ul	98	
91) Benzo(g,h,i)perylene	30.57	276	1255178	20.88	ng/ul	98	

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