Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061217\

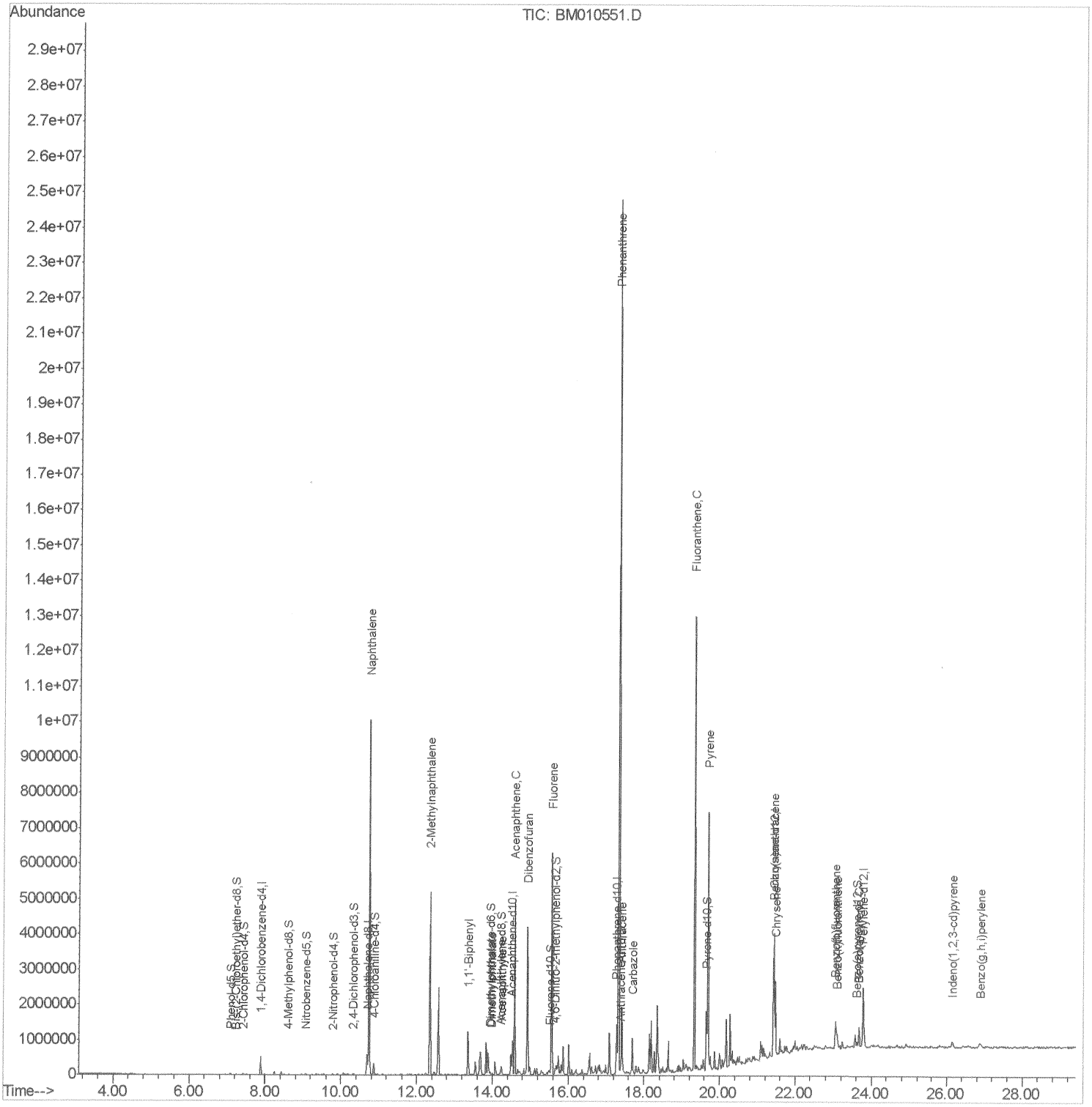
Quantitation Report (QT Reviewed)

Data File : BM010551.D
Acq On : 13 Jun 2017 00:45
Operator : SJ/MA
Sample : I3521-10DL 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 13 04:25:09 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Jun 13 03:33:28 2017
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
F5C58DL

Manual Integrations APPROVED
mohammad
6/13/2017 3:54:49 PM



Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061217\

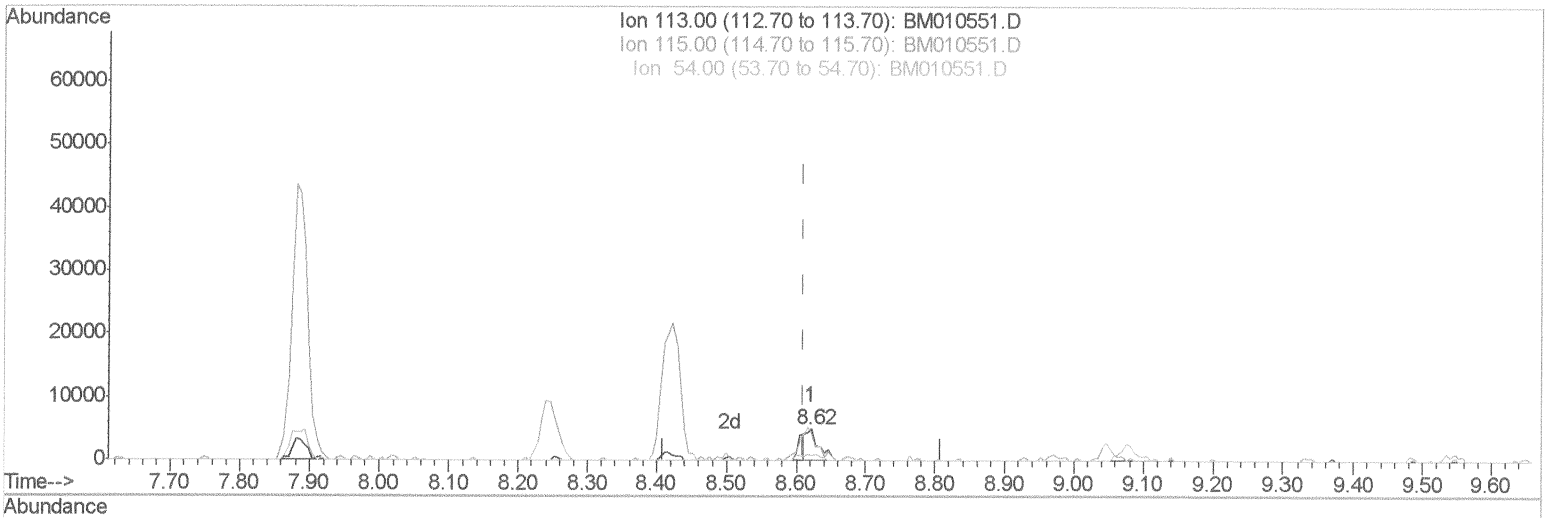
Quantitation Report (Qedit)

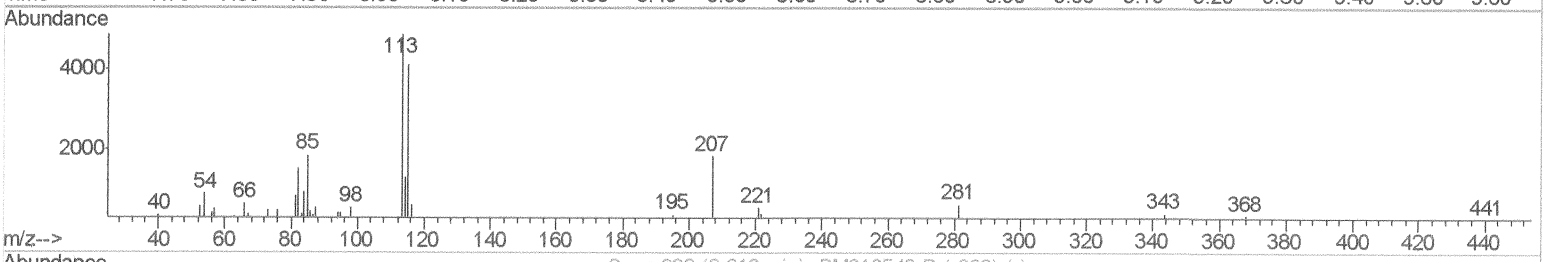
Data File : BM010551.D
Acq On : 13 Jun 2017 00:45
Operator : SJ/MA
Sample : I3521-10DL 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

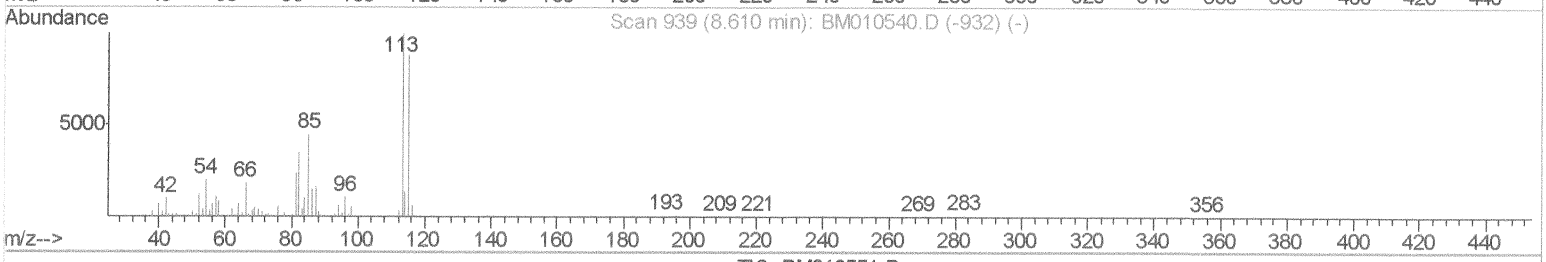
Quant Time: Jun 13 03:35:57 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Jun 13 03:33:28 2017
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
F5C58DL

Manual Integrations APPROVED
mohammad
6/13/2017 3:54:49 PM







TIC: BM010551.D

(13) 4-Methylphenol-d8 (S)

8.622min (+0.012) 0.95ng/ul

response 6220

Ion	Exp%	Act%
113.00	100	100
115.00	88.30	84.46
54.00	18.90	18.11
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061217\

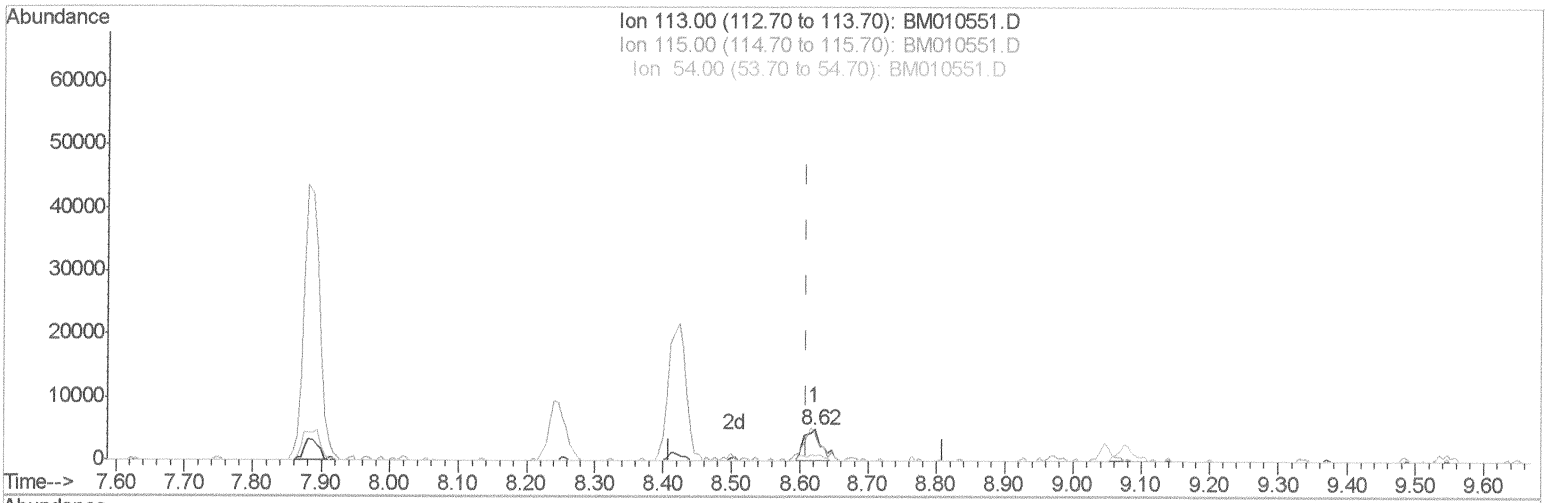
Quantitation Report (Qedit)

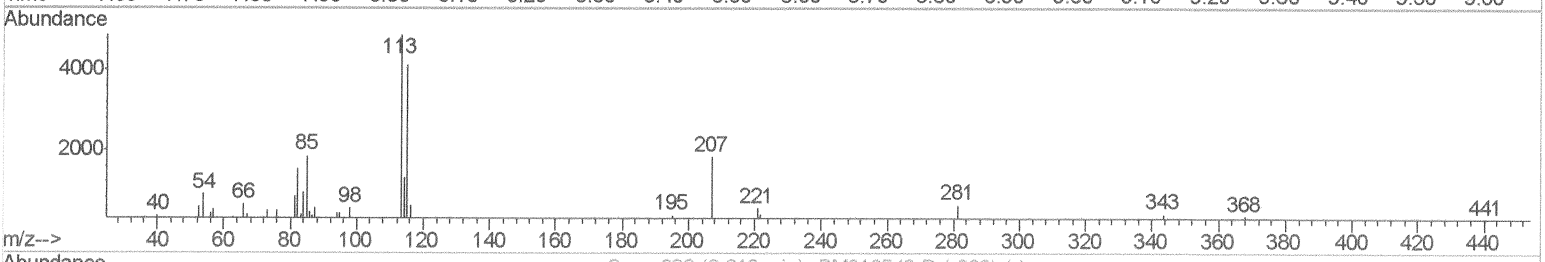
Data File : BM010551.D
Acq On : 13 Jun 2017 00:45
Operator : SJ/MA
Sample : I3521-10DL 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

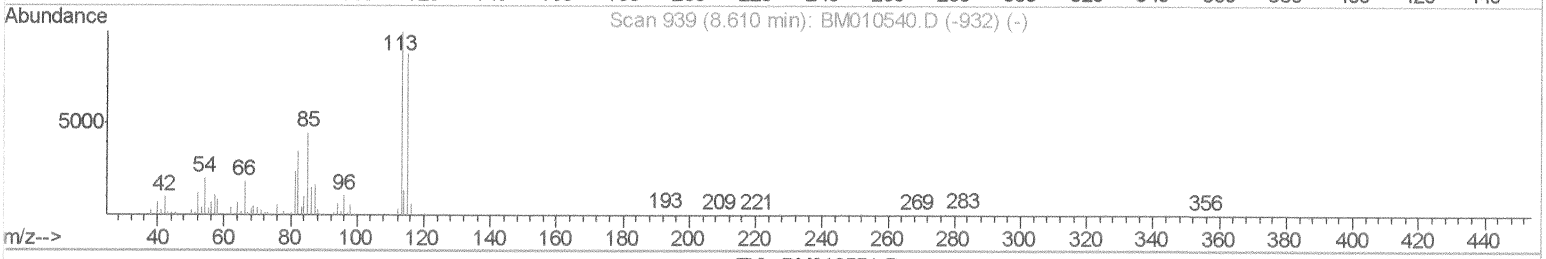
Quant Time: Jun 13 03:35:57 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Jun 13 03:33:28 2017
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
F5C58DL

Manual Integrations APPROVED
mohammad
6/13/2017 3:54:49 PM







TIC: BM010551.D

(13) 4-Methylphenol-d8 (S)

8.622min (+0.012) 1.45ng/ul m

SJT 6/16/17

response 9457

Ion	Exp%	Act%
113.00	100	100
115.00	88.30	84.46
54.00	18.90	18.11
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061217\

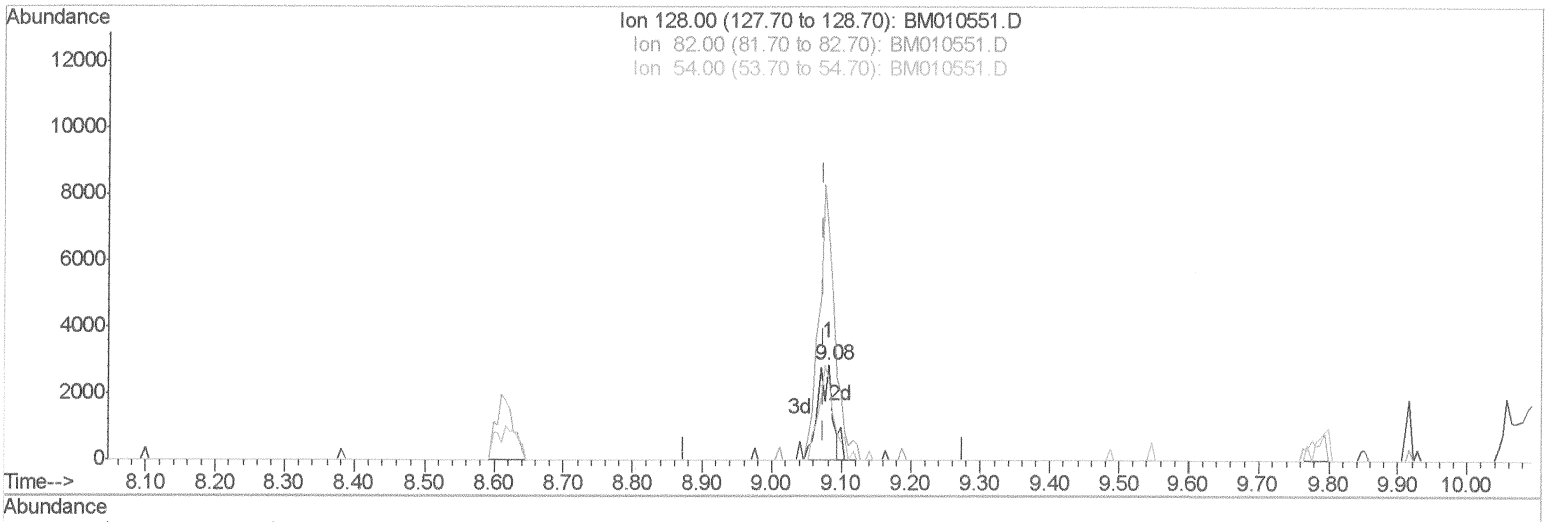
Quantitation Report (Qedit)

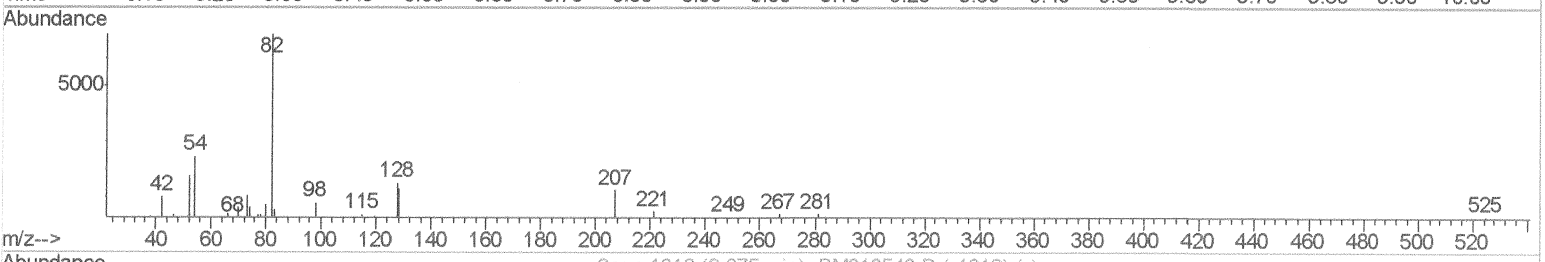
Data File : BM010551.D
Acq On : 13 Jun 2017 00:45
Operator : SJ/MA
Sample : I3521-10DL 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

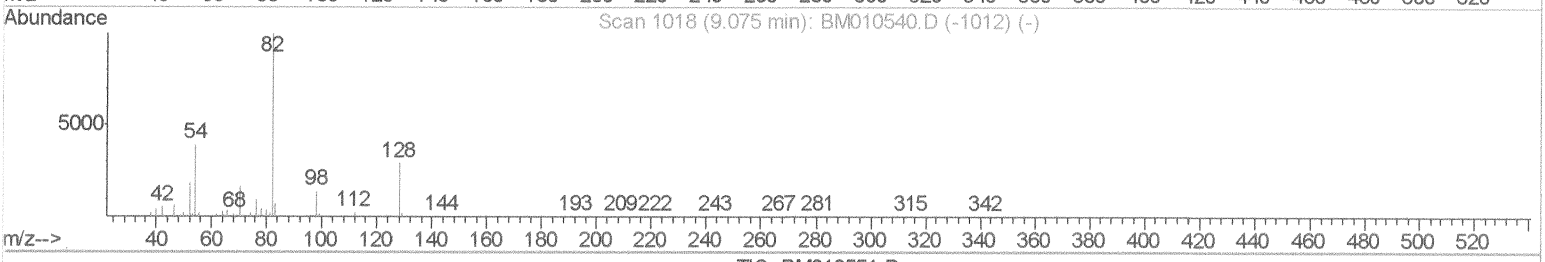
Quant Time: Jun 13 03:35:57 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Jun 13 03:33:28 2017
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
F5C58DL

Manual Integrations APPROVED
mohammad
6/13/2017 3:54:49 PM







TIC: BM010551.D

(19) Nitrobenzene-d5 (S)

9.081min (+0.006) 1.43ng/ul

response 4079

Ion	Exp%	Act%
128.00	100	100
82.00	297.40	239.76
54.00	142.70	85.92#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061217\

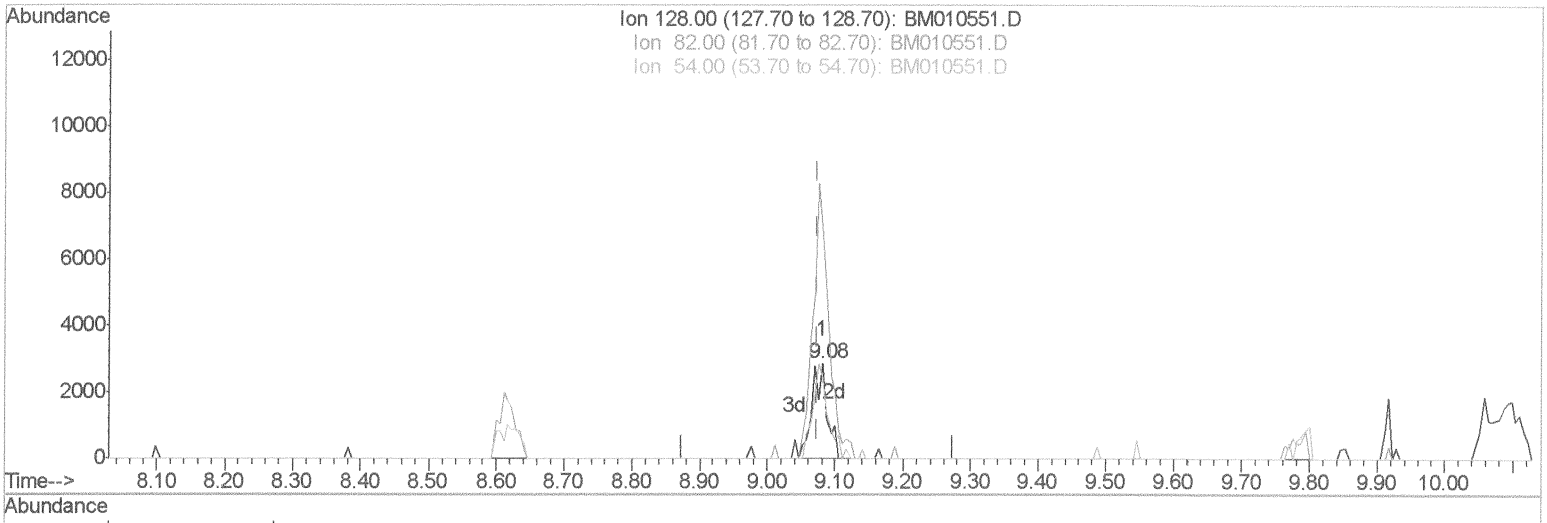
Quantitation Report (Qedit)

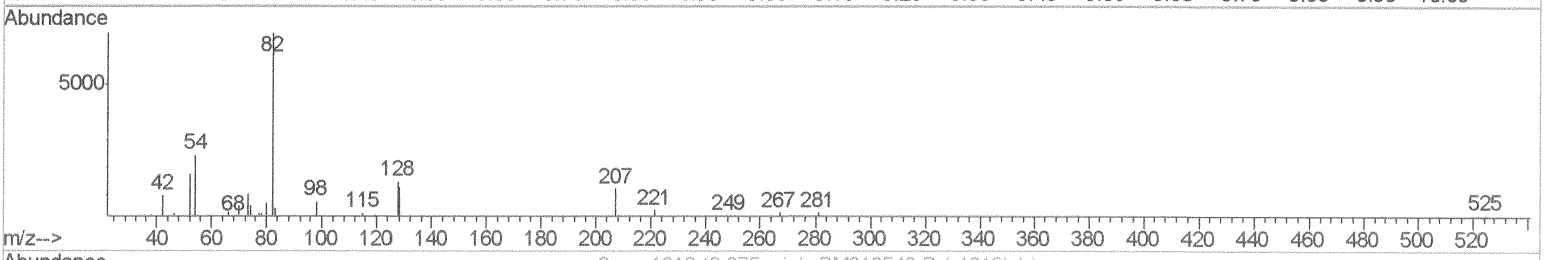
Data File : BM010551.D
Acq On : 13 Jun 2017 00:45
Operator : SJ/MA
Sample : I3521-10DL 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

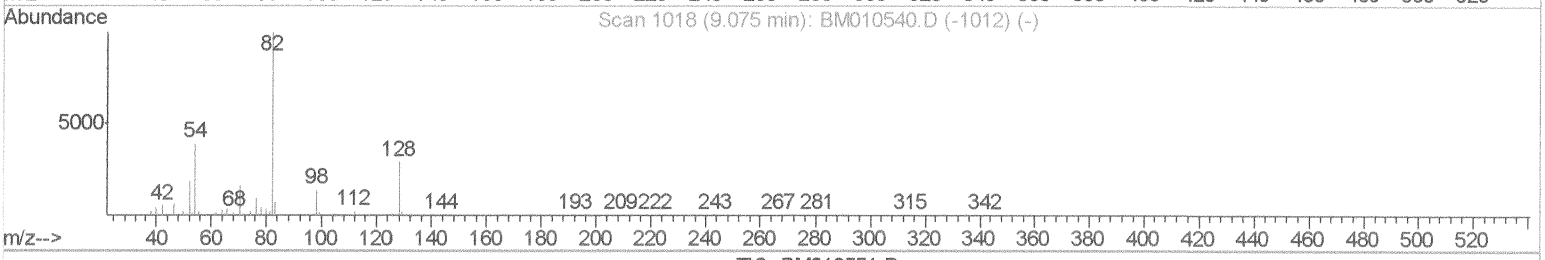
Quant Time: Jun 13 03:35:57 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Jun 13 03:33:28 2017
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
F5C58DL

Manual Integrations APPROVED
mohammad
6/13/2017 3:54:49 PM







TIC: BM010551.D

(19) Nitrobenzene-d5 (S) SJ 06/26/17

9.081min (+0.006) 1.62ng/ul m

response 4621

Ion	Exp%	Act%
128.00	100	100
82.00	297.40	448.50#
54.00	142.70	160.72
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061217\

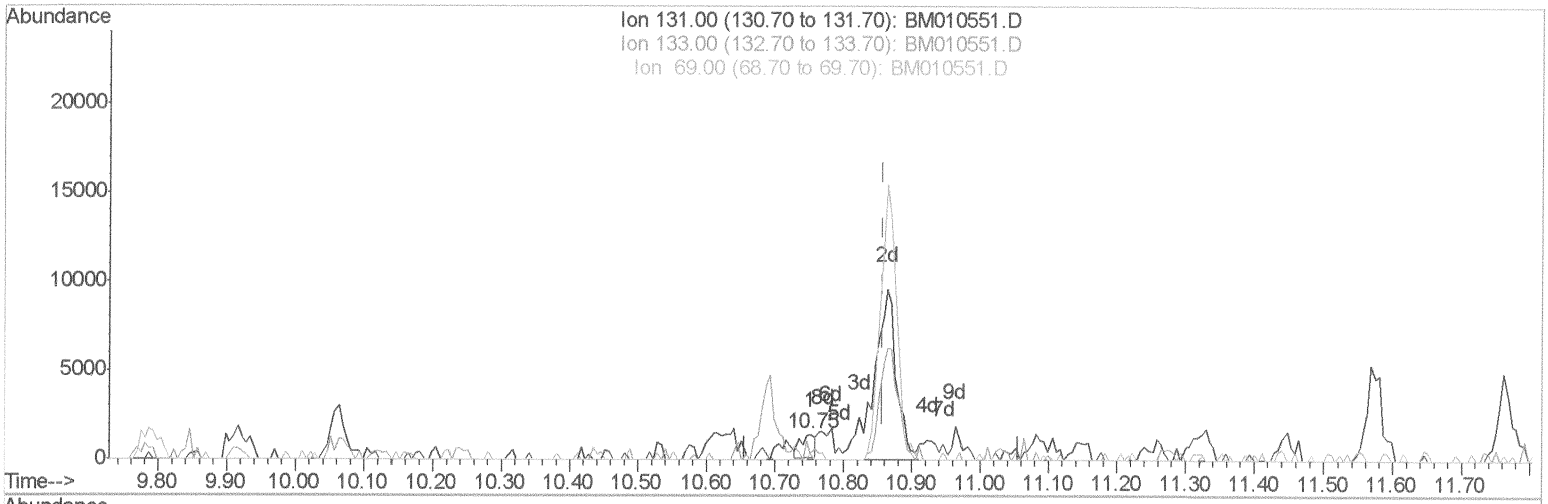
Quantitation Report (Qedit)

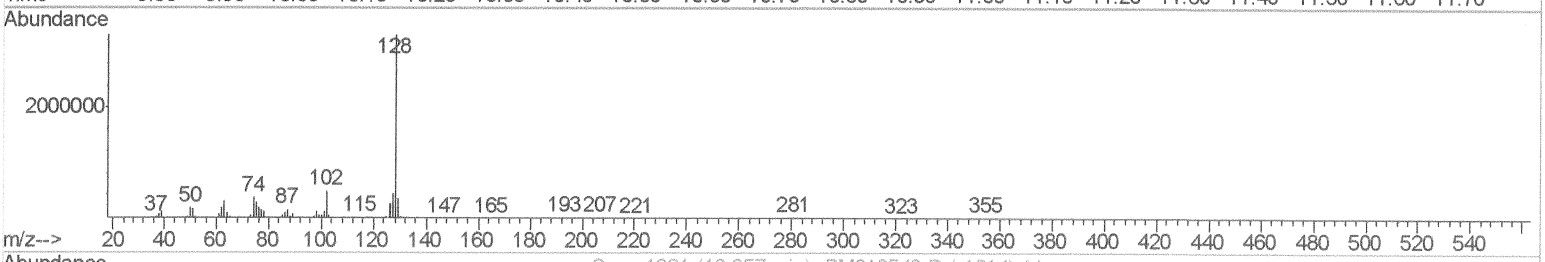
Data File : BM010551.D
Acq On : 13 Jun 2017 00:45
Operator : SJ/MA
Sample : I3521-10DL 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

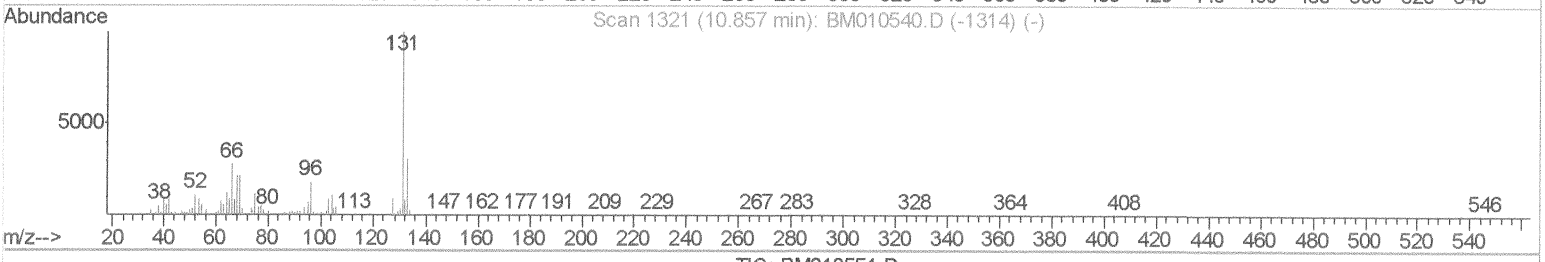
Quant Time: Jun 13 03:35:57 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Jun 13 03:33:28 2017
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
F5C58DL

Manual Integrations APPROVED
mohammad
6/13/2017 3:54:49 PM







TIC: BM010551.D

(29) 4-Chloroaniline-d4 (S)

10.751min (-0.105) 0.30ng/ul

response 1927

Ion	Exp%	Act%
131.00	100	100
133.00	31.40	26.46
69.00	24.30	25.26
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061217\

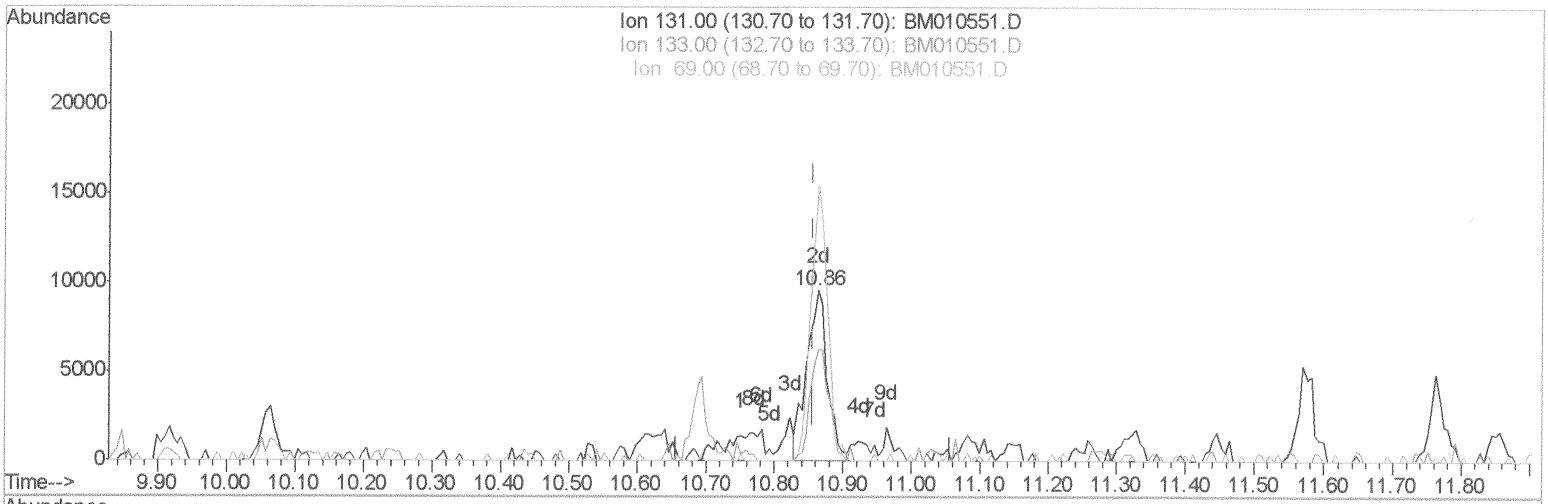
Quantitation Report (Qedit)

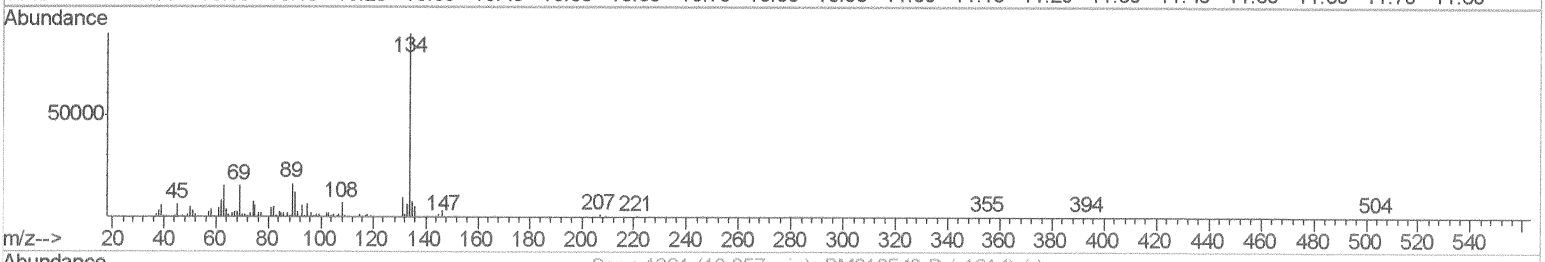
Data File : BM010551.D
Acq On : 13 Jun 2017 00:45
Operator : SJ/MA
Sample : I3521-10DL 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

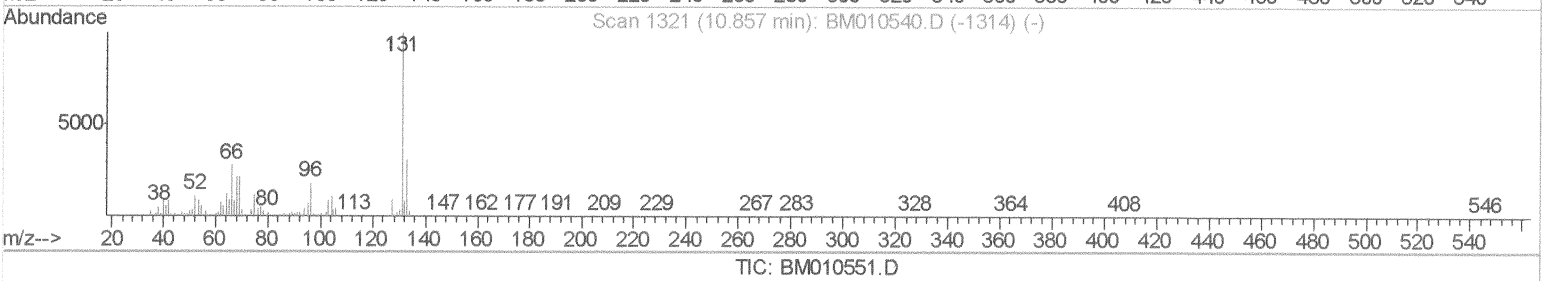
Quant Time: Jun 13 03:35:57 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Jun 13 03:33:28 2017
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
F5C58DL

Manual Integrations APPROVED
mohammad
6/13/2017 3:54:49 PM







TIC: BM010551.D

(29) 4-Chloroaniline-d4 (S)

10.863min (+0.006) 3.08ng/ul m

SJ 06/26/17

response 20111

Ion	Exp%	Act%
131.00	100	100
133.00	31.40	65.33#
69.00	24.30	161.83#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061217\

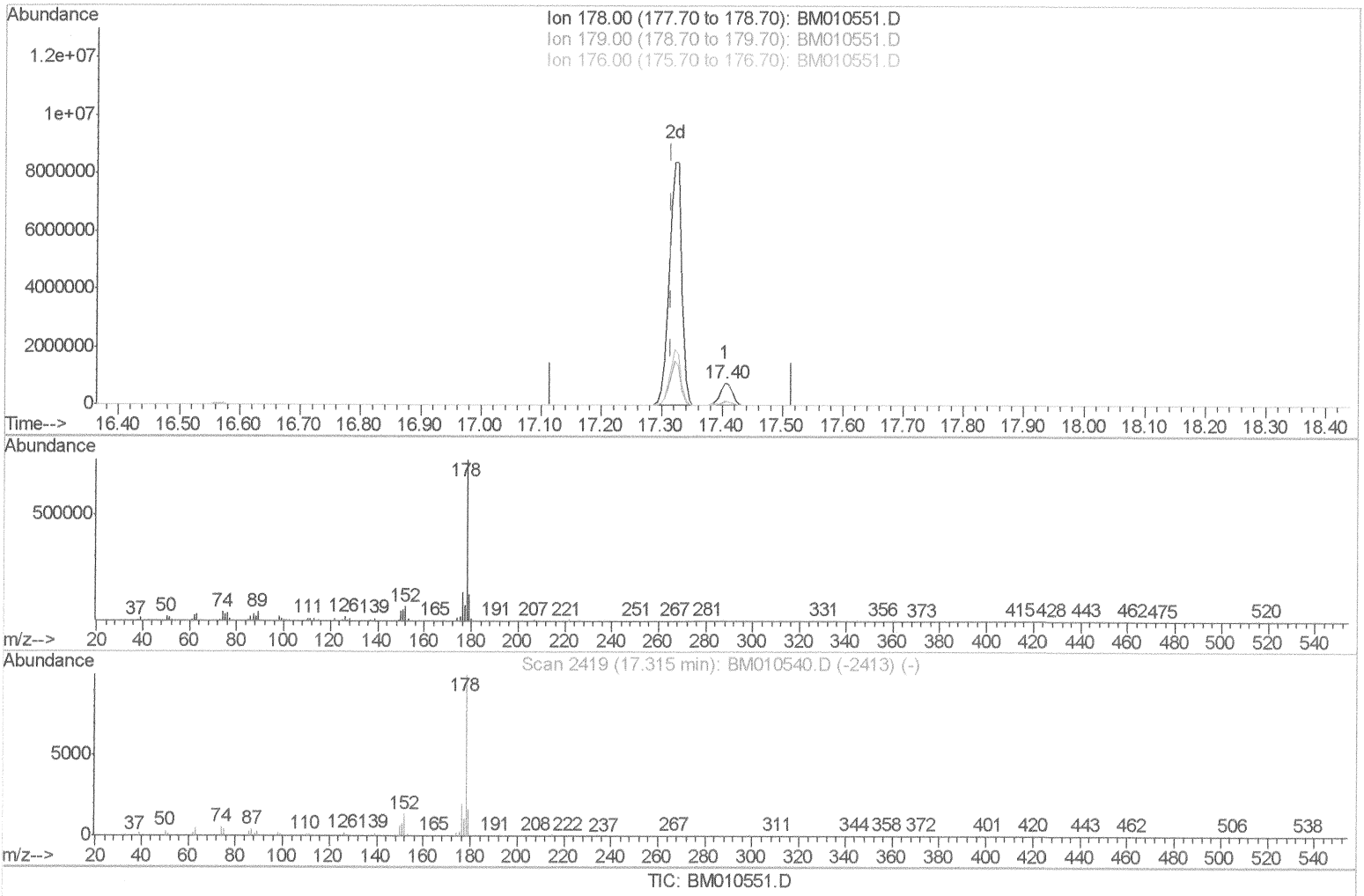
Quantitation Report (Qedit)

Data File : BM010551.D
Acq On : 13 Jun 2017 00:45
Operator : SJ/MA
Sample : I3521-10DL 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 13 03:35:57 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Jun 13 03:33:28 2017
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
F5C58DL

Manual Integrations APPROVED
mohammad
6/13/2017 3:54:49 PM



TIC: BM010551.D

(69) Phenanthrene

17.404min (+0.089) 24.87ng/ul

response 1036439

Ion	Exp%	Act%
178.00	100	100
179.00	15.80	16.58
176.00	18.60	18.11
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061217\

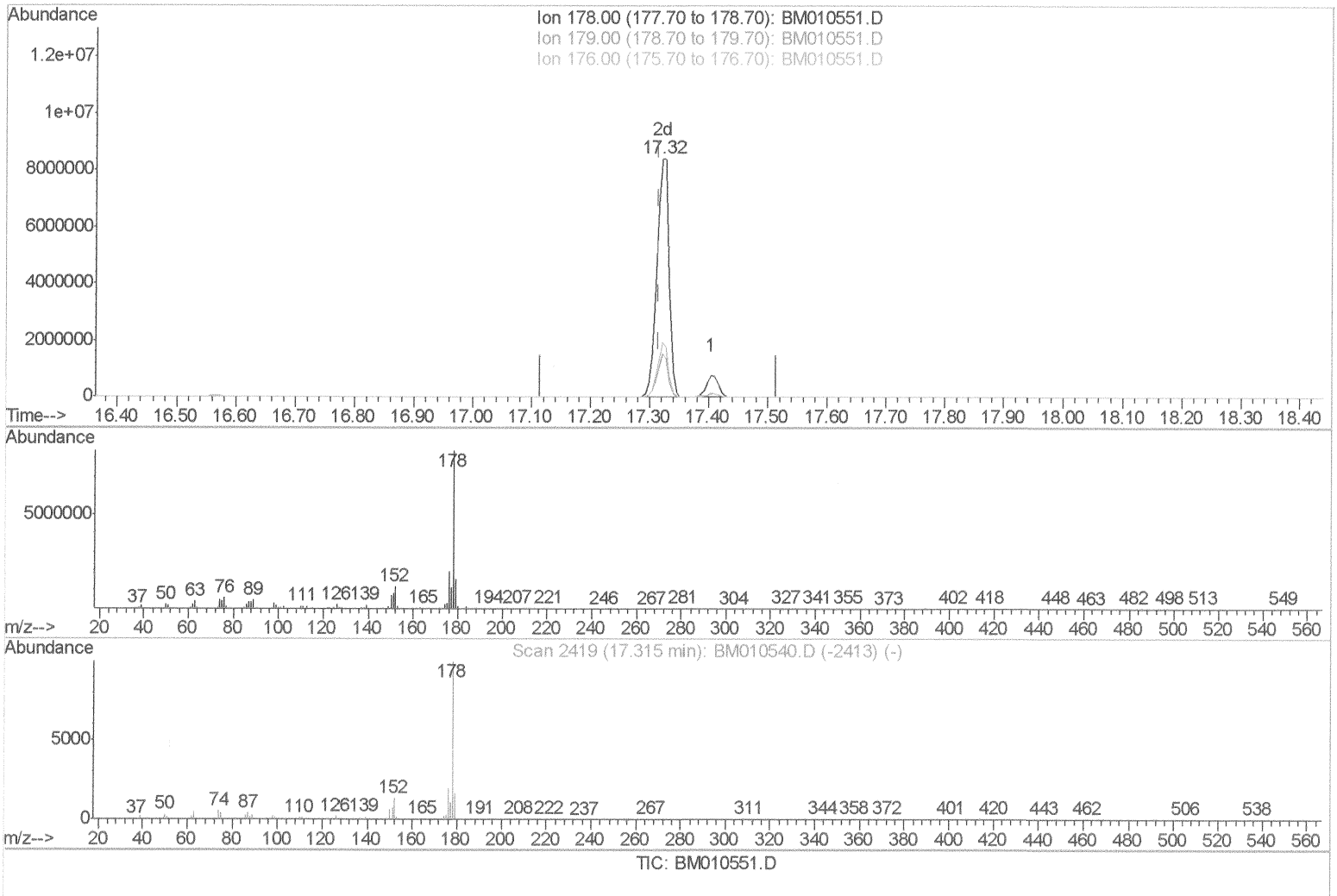
Quantitation Report (Qedit)

Data File : BM010551.D
Acq On : 13 Jun 2017 00:45
Operator : SJ/MA
Sample : I3521-10DL 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 13 03:35:57 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Jun 13 03:33:28 2017
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
F5C58DL

Manual Integrations APPROVED
mohammad
6/13/2017 3:54:49 PM



TIC: BM010551.D

(69) Phenanthrene

17.322min (+0.006) 290.78ng/ul m SJ 06/26/17

response 12120080

Ion	Exp%	Act%
178.00	100	100
179.00	15.80	18.37
176.00	18.60	23.12#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061217\

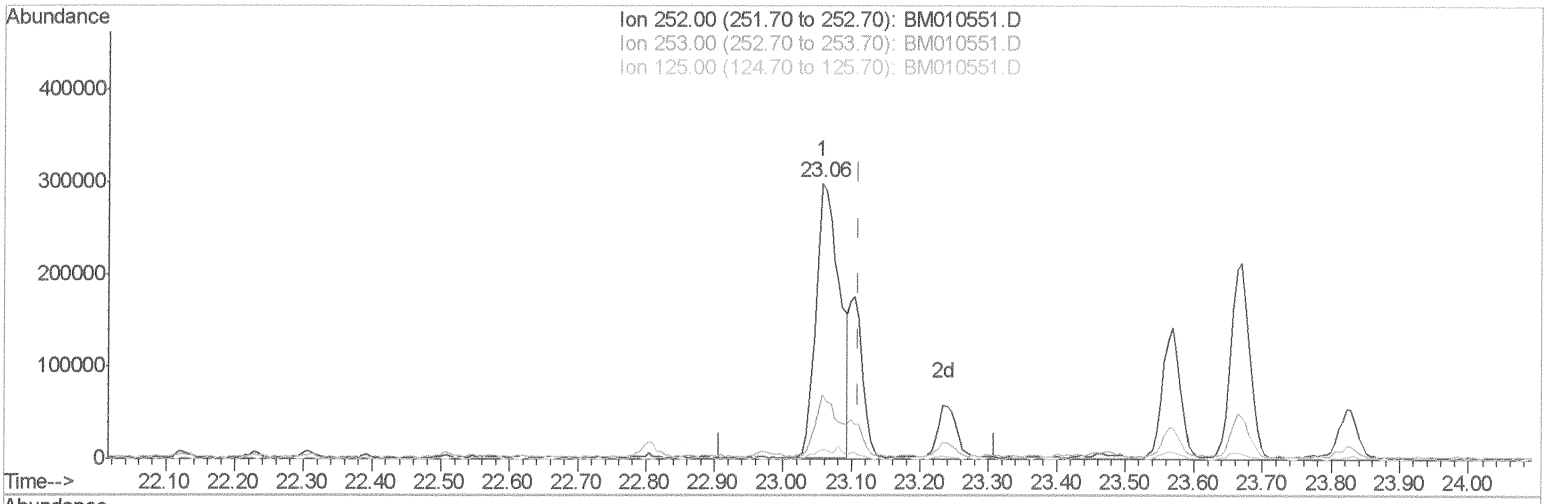
Quantitation Report (Qedit)

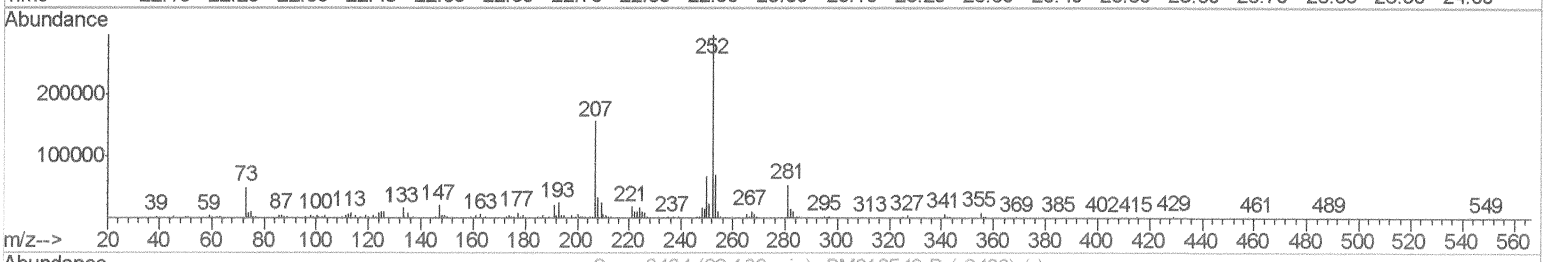
Data File : BM010551.D
Acq On : 13 Jun 2017 00:45
Operator : SJ/MA
Sample : I3521-10DL 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

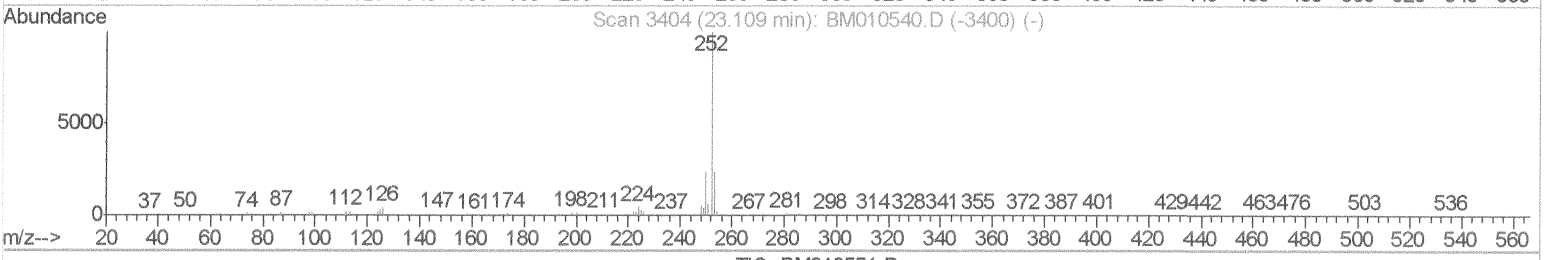
Quant Time: Jun 13 03:35:57 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Jun 13 03:33:28 2017
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
F5C58DL

Manual Integrations APPROVED
mohammad
6/13/2017 3:54:49 PM







TIC: BM010551.D

(86) Benzo(k)fluoranthene

23.057min (-0.053) 10.31ng/ul

response 708276

Ion	Exp%	Act%
252.00	100	100
253.00	21.40	23.61
125.00	4.30	3.61
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061217\

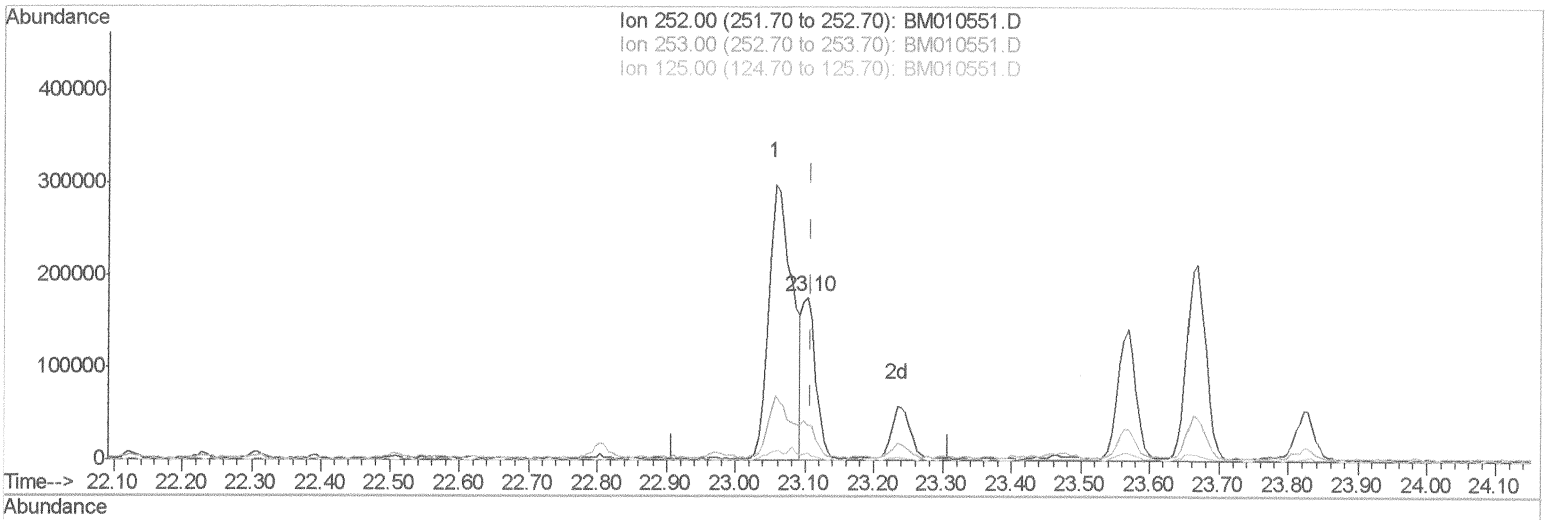
Quantitation Report (Qedit)

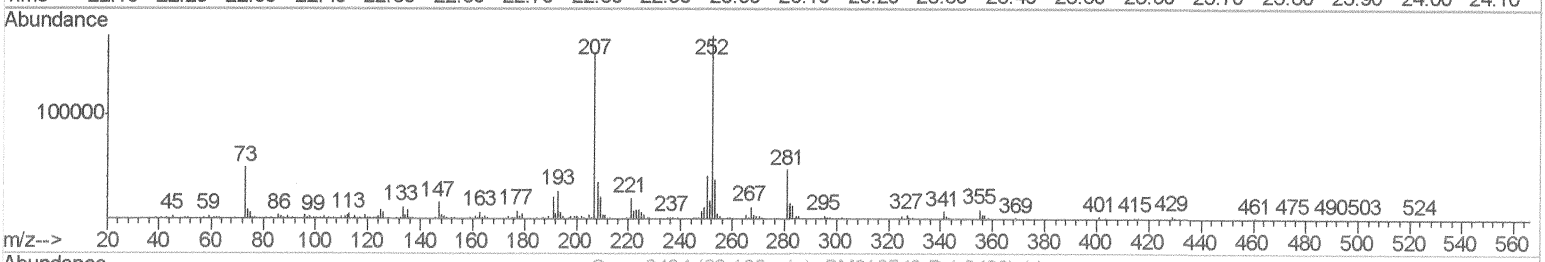
Data File : BM010551.D
Acq On : 13 Jun 2017 00:45
Operator : SJ/MA
Sample : I3521-10DL 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

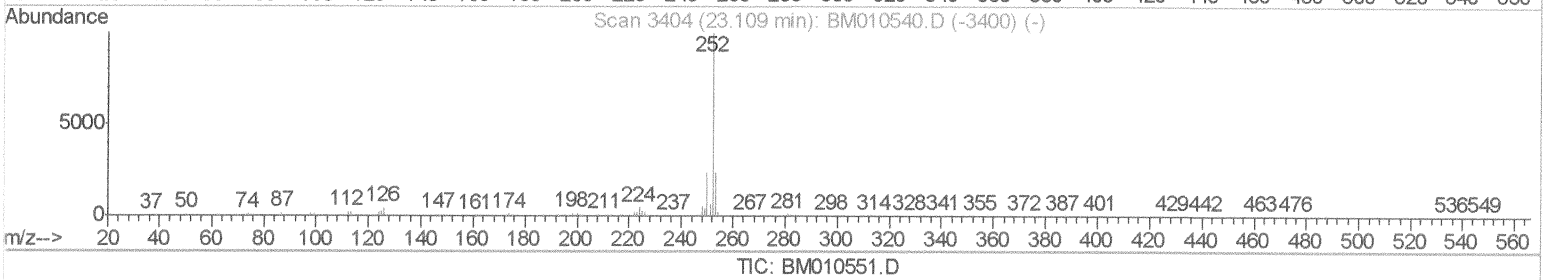
Quant Time: Jun 13 03:35:57 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Jun 13 03:33:28 2017
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
F5C58DL

Manual Integrations APPROVED
mohammad
6/13/2017 3:54:49 PM







TIC: BM010551.D

(86) Benzo(k)fluoranthene

23.104min (-0.005) 3.44ng/ul m JS 06/26/17

response 236576

Ion	Exp%	Act%
252.00	100	100
253.00	21.40	21.31
125.00	4.30	4.86
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061217\

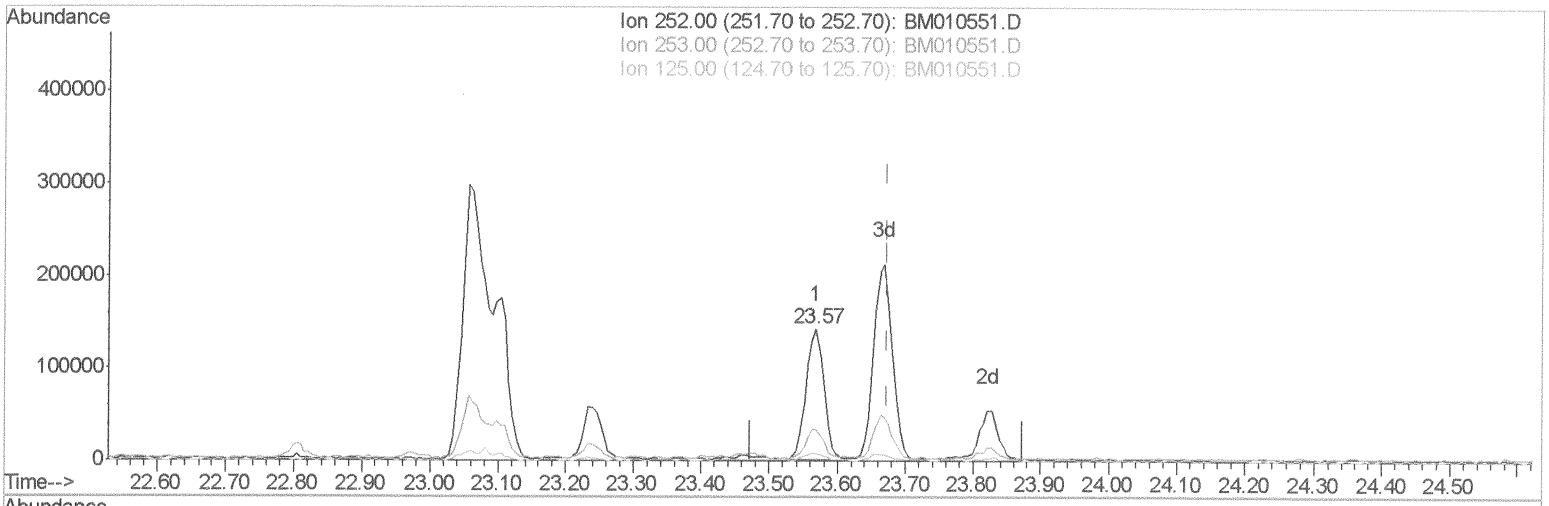
Quantitation Report (Qedit)

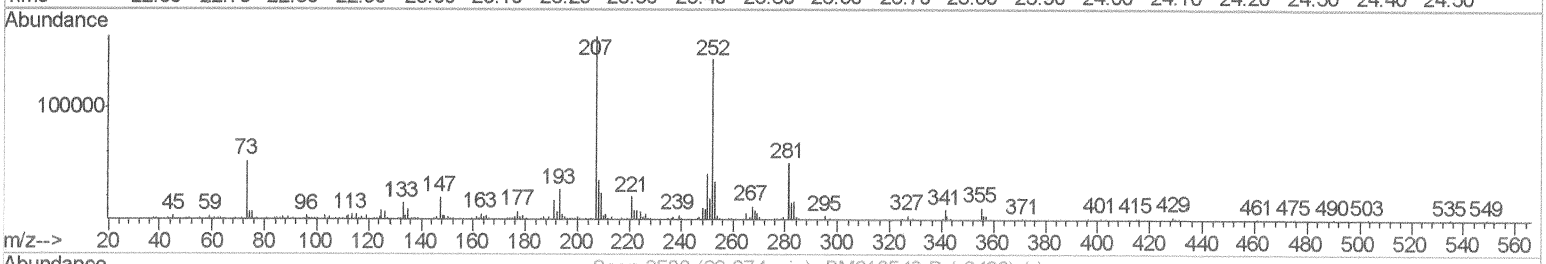
Data File : BM010551.D
Acq On : 13 Jun 2017 00:45
Operator : SJ/MA
Sample : I3521-10DL 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

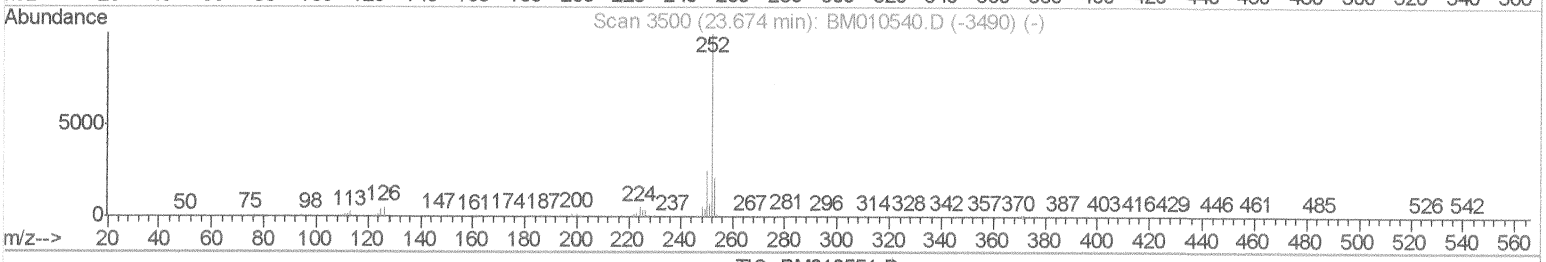
Quant Time: Jun 13 03:35:57 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Jun 13 03:33:28 2017
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
F5C58DL

Manual Integrations APPROVED
mohammad
6/13/2017 3:54:49 PM







TIC: BM010551.D

(88) Benzo(a)pyrene (C)

23.568min (-0.105) 3.56ng/ul

response 254054

Ion	Exp%	Act%
252.00	100	100
253.00	22.70	23.66
125.00	5.00	5.57
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061217\

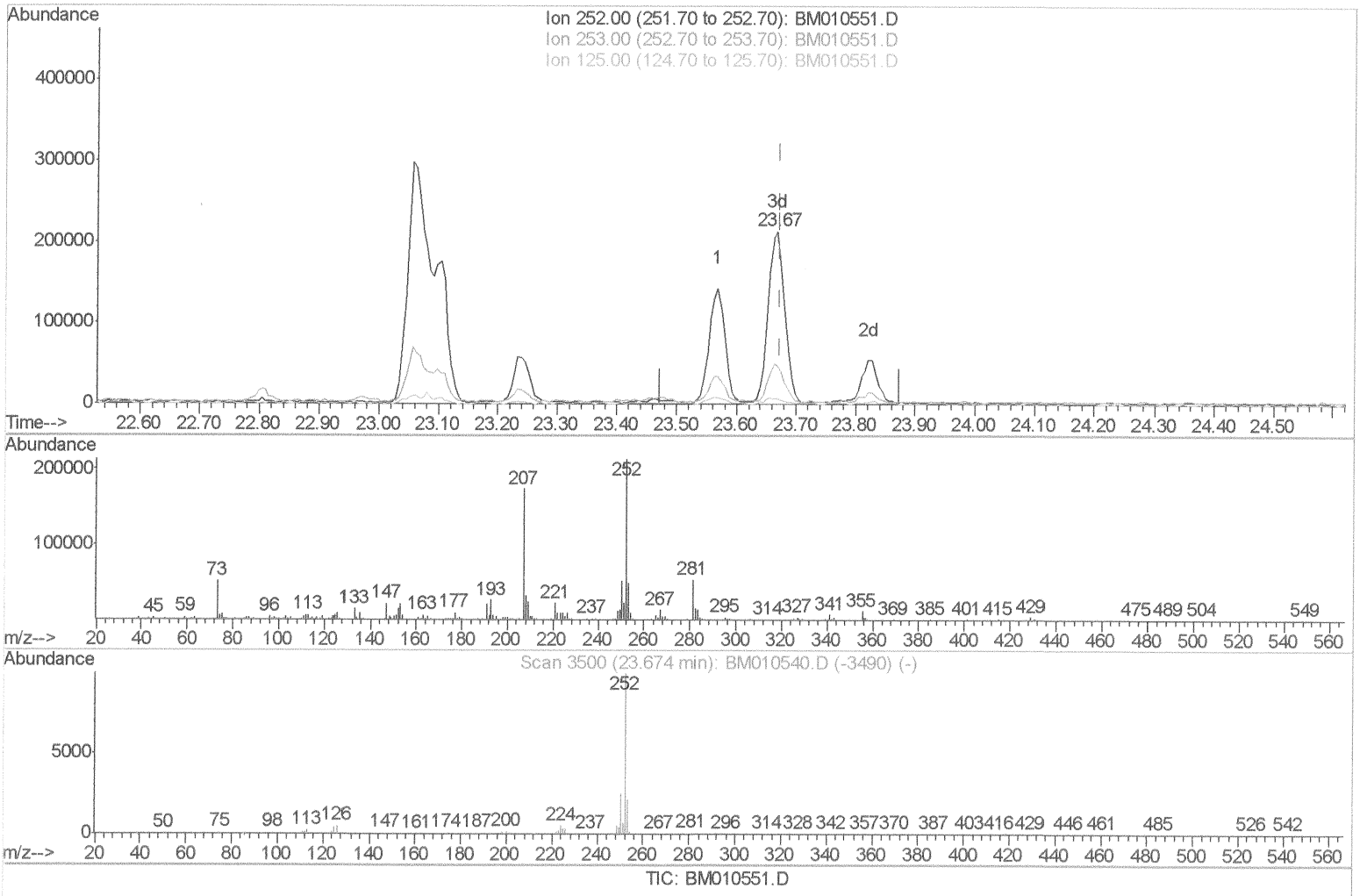
Quantitation Report (Qedit)

Data File : BM010551.D
Acq On : 13 Jun 2017 00:45
Operator : SJ/MA
Sample : I3521-10DL 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jun 13 03:35:57 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Jun 13 03:33:28 2017
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
F5C58DL

Manual Integrations APPROVED
mohammad
6/13/2017 3:54:49 PM



TIC: BM010551.D

(88) Benzo(a)pyrene (C)

23.668min (-0.005) 5.85ng/ul m SS 06/26/17

response 416757

Ion	Exp%	Act%
252.00	100	100
253.00	22.70	22.60
125.00	5.00	3.17#
0.00	0.00	0.00

Data Path : Z:\HPCHEM1\BNA_M\DATA\BM061217\

Quantitation Report (QT Reviewed)

Data File : BM010551.D
Acq On : 13 Jun 2017 00:45
Operator : SJ/MA
Sample : I3521-10DL 10X
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument : BNA_M
ClientSampleId : F5C58DL

Manual Integrations APPROVED
mohammad
6/13/2017 3:54:49 PM

Quant Time: Jun 13 04:25:09 2017
Quant Method : Z:\HPCHEM1\BNA_M\METHODS\SOM-EPA-BM052717.M
Quant Title : SVOA CALIBRATION
QLast Update : Tue Jun 13 03:33:28 2017
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.89	152	106541	20.00	ng/ul	0.00
18) Naphthalene-d8	10.69	136	388377	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.52	164	284380	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.27	188	780771	20.00	ng/ul	0.00
75) Chrysene-d12	21.44	240	1221395	20.00	ng/ul	0.00
83) Perylene-d12	23.77	264	1235672	20.00	ng/ul	0.00
System Monitoring Compounds						
3) 1,4-Dioxane-d8	0.00	96	0d	0.00	ng/uL	
5) Phenol-d5	7.08	99	11614	1.44	ng/ul	0.01
7) Bis-(2-Chloroethyl)ether-d	7.23	67	7315	1.61	ng/ul	0.00
9) 2-Chlorophenol-d4	7.43	132	10108	1.57	ng/ul	0.00
13) 4-Methylphenol-d8	8.62	113	9457m	1.45	ng/ul	0.01
19) Nitrobenzene-d5	9.08	128	4621m	1.62	ng/ul	0.00
22) 2-Nitrophenol-d4	9.79	143	4536	1.38	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.32	165	11559	1.71	ng/ul	0.00
29) 4-Chloroaniline-d4	10.86	131	20111m	3.08	ng/ul	0.00
43) Dimethylphthalate-d6	13.94	166	47893	2.03	ng/ul	0.00
46) Acenaphthylene-d8	14.22	160	50984	1.85	ng/ul	0.00
51) 4-Nitrophenol-d4	14.76	143	486	0.14	ng/ul	-0.01
57) Fluorene-d10	15.51	176	45248	2.18	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.65	200	6757	1.22	ng/ul	0.00
70) Anthracene-d10	17.37	188	77467	2.04	ng/ul	0.00
76) Pyrene-d10	19.66	212	104900	2.08	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.62	264	109695	1.91	ng/ul	0.00
Target Compounds						Qvalue
28) Naphthalene	10.75	128	6122654	314.31	ng/ul	99
34) 2-Methylnaphthalene	12.35	142	1911771	129.44	ng/ul	97
40) 1,1'-Biphenyl	13.35	154	534547	23.17	ng/ul	99
44) Dimethylphthalate	13.99	163	40118	1.73	ng/ul#	97
47) Acenaphthylene	14.25	152	65390	2.43	ng/ul	96
49) Acenaphthene	14.59	153	1664526	88.11	ng/ul	98
53) Dibenzofuran	14.93	168	2173949	77.83	ng/ul	96
58) Fluorene	15.57	166	2286201	99.78	ng/ul	99
69) Phenanthrene	17.32	178	12120080m	290.78	ng/ul	
71) Anthracene	17.40	178	1036439	23.82	ng/ul	98
72) Carbazole	17.69	167	482102	13.09	ng/ul	97
74) Fluoranthene	19.33	202	7068318	137.90	ng/ul#	96
77) Pyrene	19.69	202	4365976	69.37	ng/ul#	93
80) Benzo(a)anthracene	21.42	228	1328841	19.29	ng/ul	97
82) Chrysene	21.47	228	1092052	17.54	ng/ul	97
85) Benzo(b)fluoranthene	23.06	252	708276	9.85	ng/ul	97
86) Benzo(k)fluoranthene	23.10	252	236576m	3.44	ng/ul	
88) Benzo(a)pyrene	23.67	252	416757m	5.85	ng/ul	
89) Indeno(1,2,3-cd)pyrene	26.14	276	140689	1.56	ng/ul#	92
91) Benzo(g,h,i)perylene	26.89	276	104062	1.40	ng/ul#	95

SJ 06/26/17

SS 06/26/17

SJ 06/26/17

SS 06/26/17

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