

Data Path : Z:\HPCHEM1\BNA M\DATA\BM042418\
 Data File : BM014828.D
 Acq On : 25 Apr 2018 02:18
 Operator : SJ/JU
 Sample : J2431-15DL 10X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :

Quant Time: Apr 25 04:29:40 2018
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM041918.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Wed Apr 25 02:07:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.52	152	441003	20.00	ng/ul	0.00
18) Naphthalene-d8	11.37	136	2046942	20.00	ng/ul	0.00
35) Acenaphthene-d10	15.13	164	1196582	20.00	ng/ul	0.00
61) Phenanthrene-d10	17.84	188	2688901	20.00	ng/ul	0.00
75) Chrysene-d12	21.93	240	2911862	20.00	ng/ul	0.00
83) Perylene-d12	24.42	264	2569703	20.00	ng/ul	0.00

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.66	96	4482	0.44	ng/uL	0.00
5) Phenol-d5	7.64	99	80938	2.37	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	7.82	67	68515	3.13	ng/ul	0.00
9) 2-Chlorophenol-d4	8.04	132	64245	2.25	ng/ul	0.00
13) 4-Methylphenol-d8	9.22	113	60457	2.22	ng/ul	0.00
19) Nitrobenzene-d5	9.70	128	31069	2.10	ng/ul	0.00
22) 2-Nitrophenol-d4	10.43	143	28134	1.91	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	10.97	165	59859	2.00	ng/ul	0.00
29) 4-Chloroaniline-d4	11.49	131	88430	2.99	ng/ul	0.00
43) Dimethylphthalate-d6	14.52	166	215980	2.31	ng/ul	0.00
46) Acenaphthylene-d8	14.83	160	231433	2.01	ng/ul	0.00
51) 4-Nitrophenol-d4	15.28	143	21201	1.22	ng/ul	0.00
57) Fluorene-d10	16.10	176	200483	2.47	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	16.21	200	13501	0.93	ng/ul	0.00
70) Anthracene-d10	17.94	188	294704	2.35	ng/ul	0.01
76) Pyrene-d10	20.17	212	343921	2.50	ng/ul	0.00
87) Benzo(a)pyrene-d12	24.25	264	316401	2.51	ng/ul	0.00

Target Compounds

					Ovalue
14) Acetophenone	9.33	105	46661	1.171	ng/ul# 30
15) N-Nitroso-di-n-propylamine	9.27	70	34207	1.655	ng/ul# 56
17) Hexachloroethane	9.64	117	15681	1.365	ng/ul# 1
28) Naphthalene	11.42	128	122816	1.231	ng/ul# 93
34) 2-Methylnaphthalene	12.99	142	600230	8.665	ng/ul 99
40) 1,1'-Biphenyl	13.97	154	706617	7.344	ng/ul# 97
47) Acenaphthylene	14.85	152	199333	1.784	ng/ul# 84
49) Acenaphthene	15.19	153	4227455	53.233	ng/ul 99
53) Dibenzofuran	15.52	168	5919535	53.679	ng/ul 99
54) 2,4-Dinitrotoluene	15.43	165	75266	3.085	ng/ul# 74
58) Fluorene	16.16	166	9822094	110.304	ng/ul 98
60) 4-Nitroaniline	16.16	138	116109	6.107	ng/ul# 13
69) Phenanthrene	17.98	178	11462462	79.377	ng/ul 97
71) Anthracene	17.98	178	11462462	78.214	ng/ul 95
72) Carbazole	18.23	167	243840	1.950	ng/ul# 93
74) Fluoranthene	19.99	202	373429	2.372	ng/ul# 85
78) Butylbenzylphthalate	21.04	149	214906	3.096	ng/ul 91
80) Benzo(a)anthracene	21.92	228	9277532	54.484	ng/ul 96
81) Bis(2-ethylhexyl)phthalate	21.79	149	2702928	26.530	ng/ul# 98
82) Chrysene	21.97	228	6872300	43.111	ng/ul 95
84) Di-n-octyl phthalate	22.74	149	185288	1.254	ng/ul# 88
85) Benzo(b)fluoranthene	23.66	252	4891256	32.289	ng/ul# 96
86) Benzo(k)fluoranthene	23.66	252	4891256	33.579	ng/ul# 94

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Response via : Initial Calibration

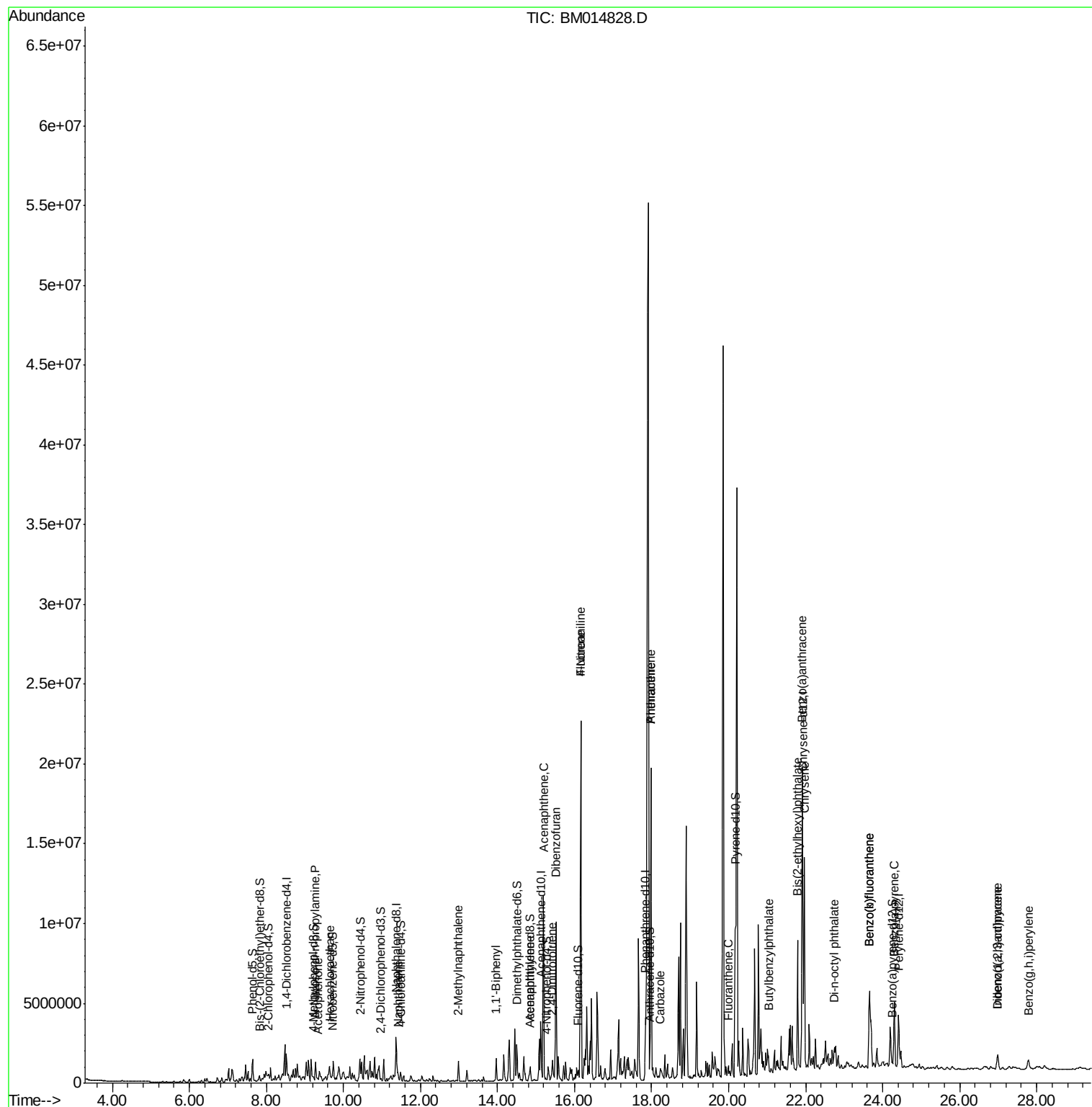
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
88) Benzo(a)pyrene	24.30	252	3139192	21.846	ng/ul#	96
89) Indeno(1,2,3-cd)pyrene	26.99	276	895996	5.154	ng/ul#	91
90) Dibenzo(a,h)anthracene	26.99	278	262971	1.797	ng/ul#	85
91) Benzo(g,h,i)perylene	27.78	276	695991	4.867	ng/ul#	89

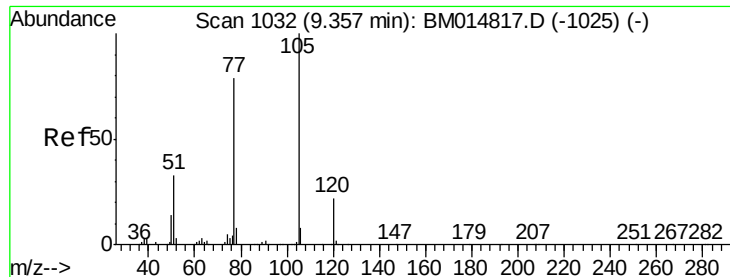
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#14

Acetophenone

Concen: 1.171 ng/ul

RT: 9.33 min Scan# 1028

Delta R.T. -0.02 min

Lab File: BM014828.D

Acq: 25 Apr 2018 02:18

Instrument :

BNA_M

ClientSampleId :

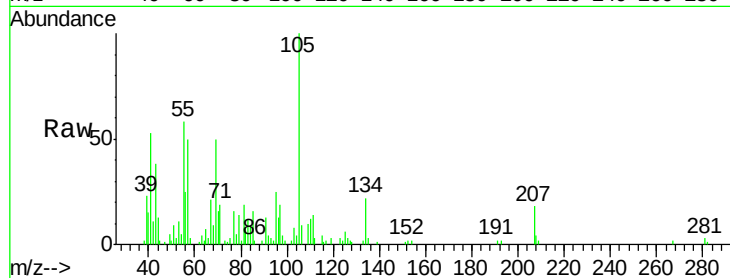
Tot Ion: 105 Resp: 46661

Ion Ratio Lower Upper

105 100

77 15.6 74.2 111.4#

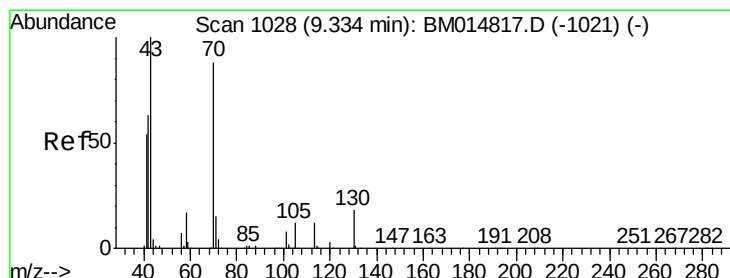
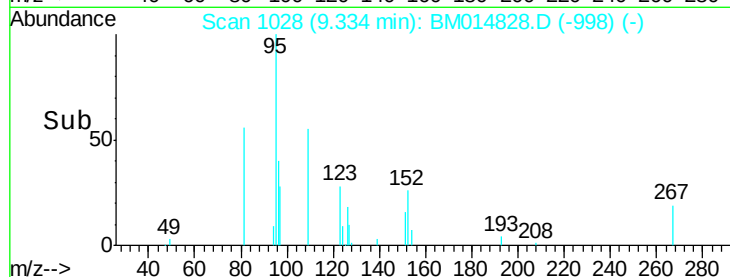
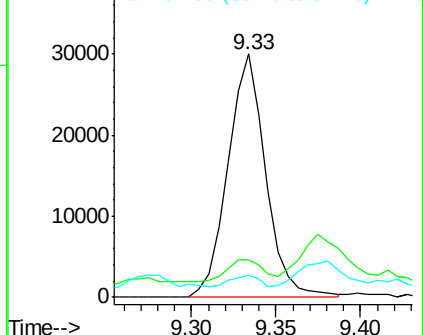
51 9.2 23.4 35.2#



Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BM0

Ion 51.00 (50.70 to 51.70): BM0



#15

N-Nitroso-di-n-propylamine

Concen: 1.655 ng/ul

RT: 9.27 min Scan# 1018

Delta R.T. -0.06 min

Lab File: BM014828.D

Acq: 25 Apr 2018 02:18

Tgt Ion: 70 Resp: 34207

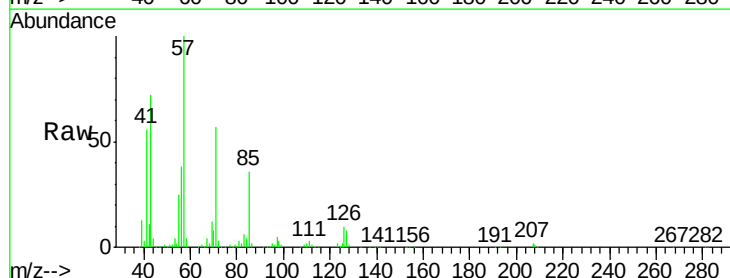
Ion Ratio Lower Upper

70 100

42 139.7 76.0 114.0#

101 0.0 6.7 10.1#

130 0.0 14.6 22.0#

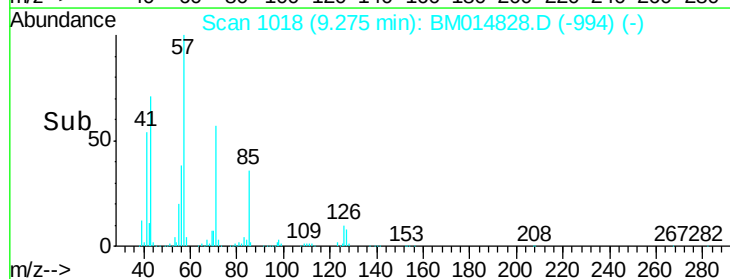
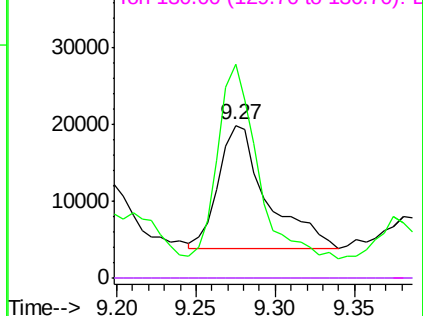


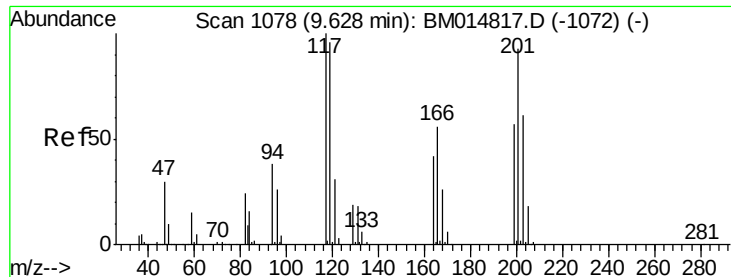
Abundance Ion 70.00 (69.70 to 70.70): BM0

Ion 42.00 (41.70 to 42.70): BM0

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E





#17

Hexachloroethane

Concen: 1.365 ng/ul

RT: 9.64 min Scan# 1080

Delta R.T. 0.01 min

Lab File: BM014828.D

Acq: 25 Apr 2018 02:18

Instrument :

BNA_M

ClientSampleId :

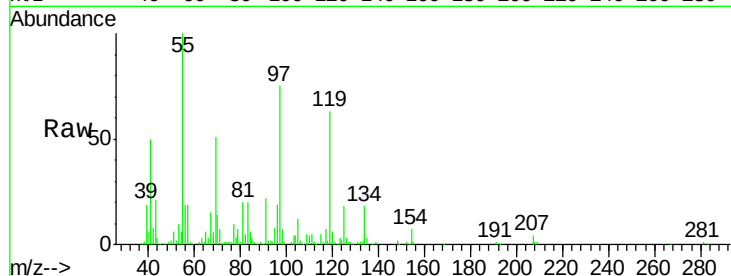
Tot Ion:117 Resp: 15681

Ion Ratio Lower Upper

117 100

201 0.0 111.6 167.4#

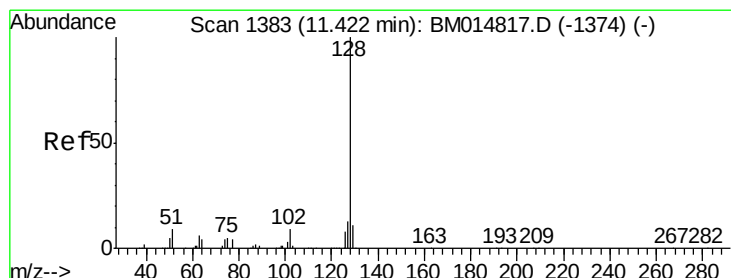
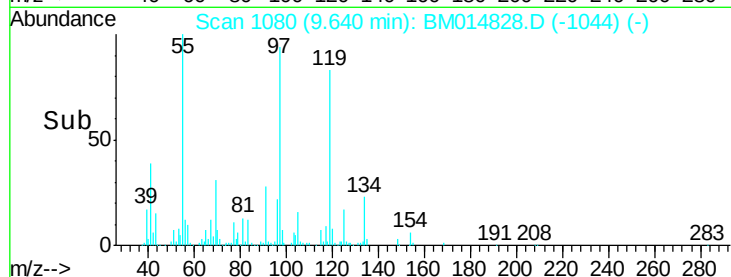
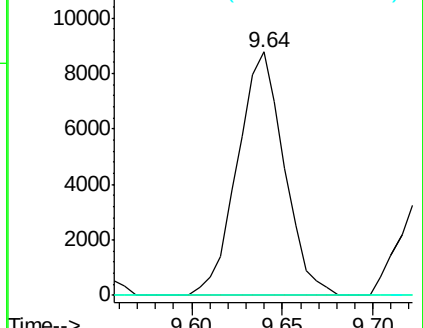
199 0.0 67.8 101.6#



Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E



#28

Naphthalene

Concen: 1.231 ng/ul

RT: 11.42 min Scan# 1382

Delta R.T. -0.01 min

Lab File: BM014828.D

Acq: 25 Apr 2018 02:18

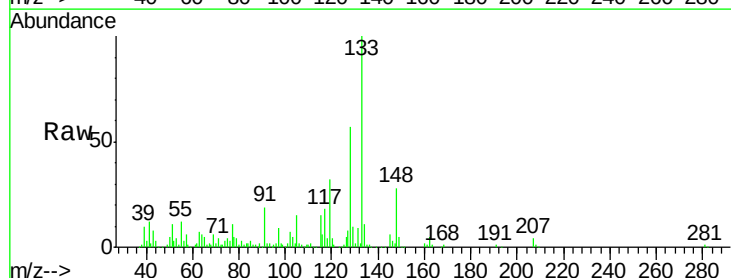
Tgt Ion:128 Resp: 122816

Ion Ratio Lower Upper

128 100

129 16.8 8.8 13.2#

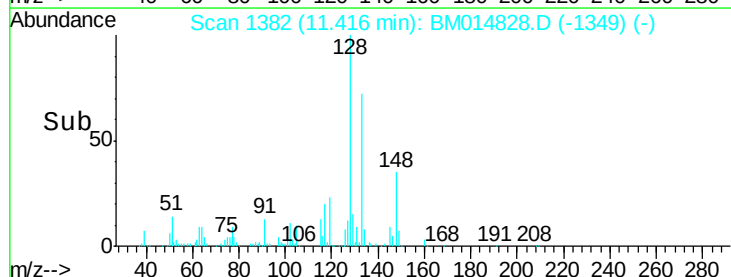
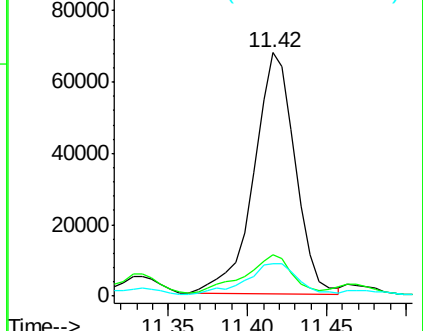
127 13.3 10.6 16.0

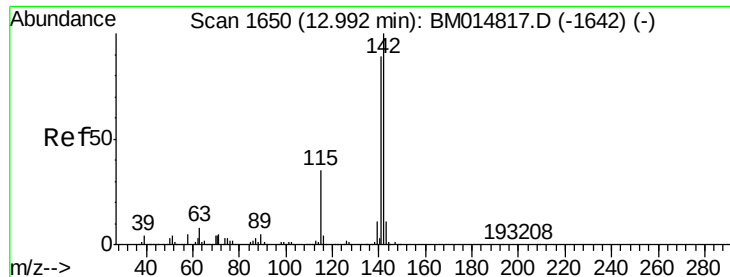


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

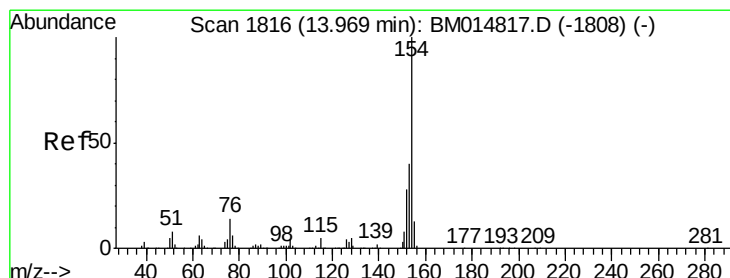
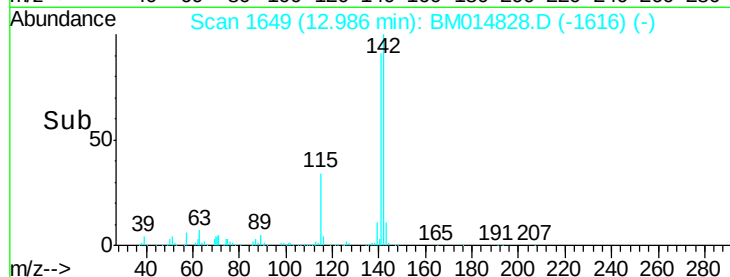
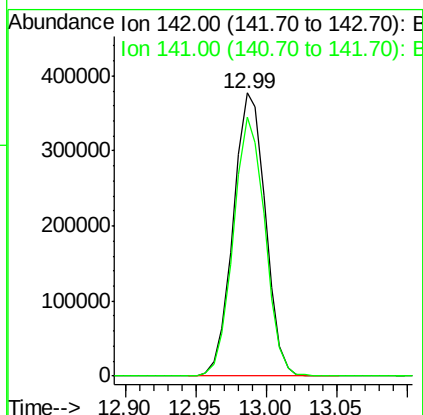
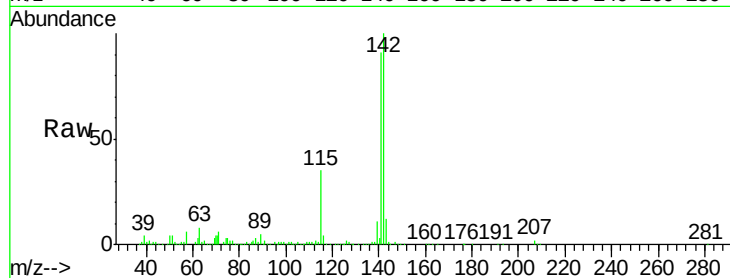




#34
 2-Methylnaphthalene
 Concen: 8.665 ng/ul
 RT: 12.99 min Scan# 1649
 Delta R.T. -0.01 min
 Lab File: BM014828.D
 Acq: 25 Apr 2018 02:18

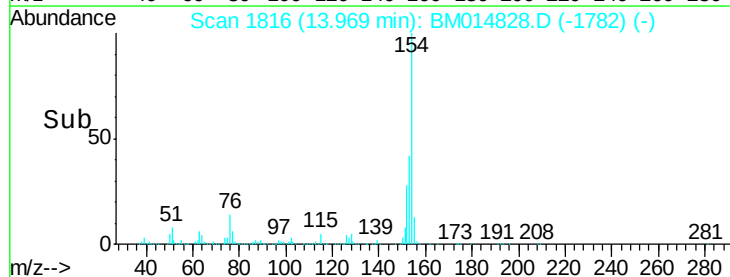
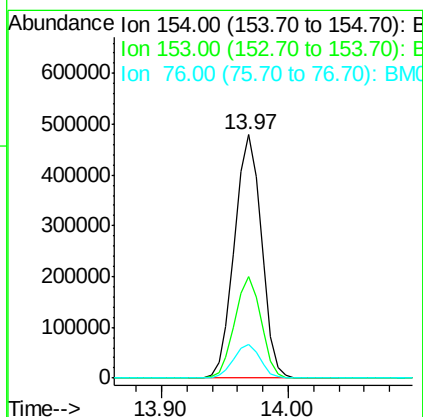
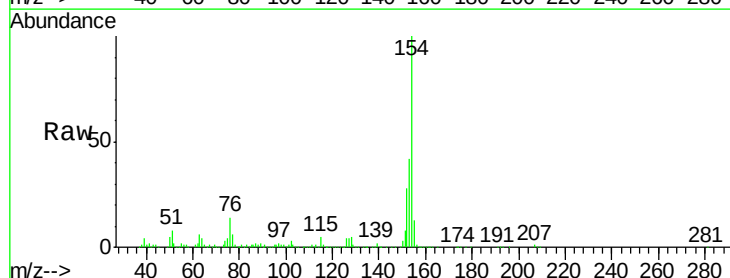
Instrument :
 BNA_M
 ClientSampleId :

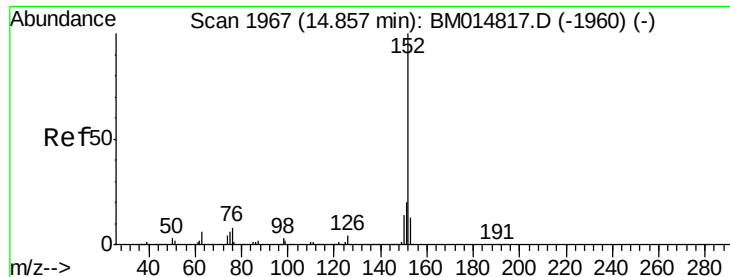
Tot Ion:142 Resp: 600230
 Ion Ratio Lower Upper
 142 100
 141 91.5 74.1 111.1



#40
 1,1'-Biphenyl
 Concen: 7.344 ng/ul
 RT: 13.97 min Scan# 1816
 Delta R.T. 0.00 min
 Lab File: BM014828.D
 Acq: 25 Apr 2018 02:18

Tgt Ion:154 Resp: 706617
 Ion Ratio Lower Upper
 154 100
 153 41.5 32.6 48.8
 76 13.8 8.5 12.7#





#47

Acenaphthylene

Concen: 1.784 ng/ul

RT: 14.85 min Scan# 1966

Delta R.T. -0.01 min

Lab File: BM014828.D

Acq: 25 Apr 2018 02:18

Instrument :

BNA_M

ClientSampleId :

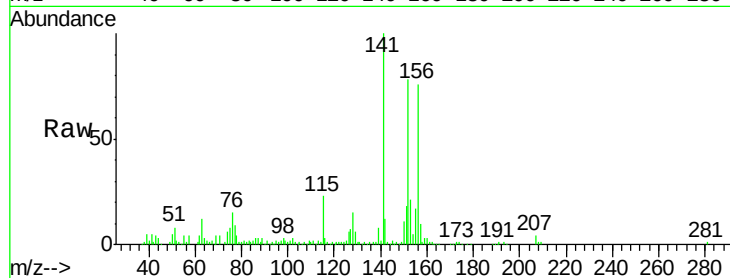
Tot Ion:152 Resp: 199333

Ion Ratio Lower Upper

152 100

151 22.5 16.3 24.5

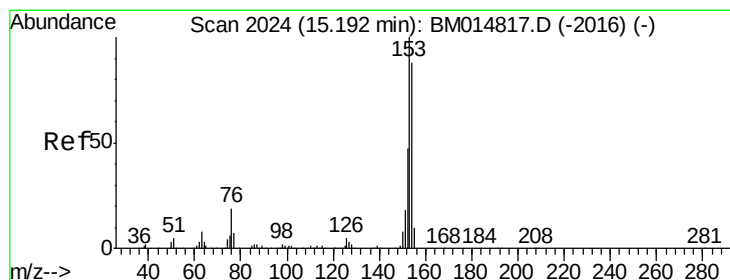
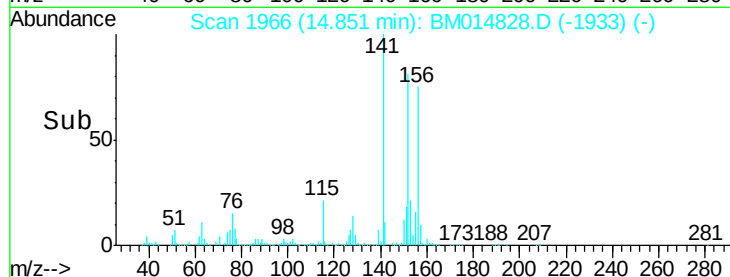
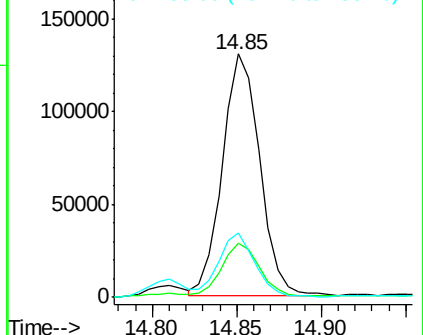
153 26.5 10.2 15.4#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Acenaphthene

Concen: 53.233 ng/ul

RT: 15.19 min Scan# 2024

Delta R.T. 0.00 min

Lab File: BM014828.D

Acq: 25 Apr 2018 02:18

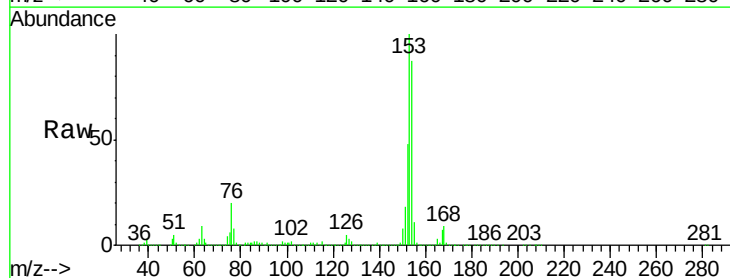
Tgt Ion:153 Resp: 4227455

Ion Ratio Lower Upper

153 100

152 48.5 37.6 56.4

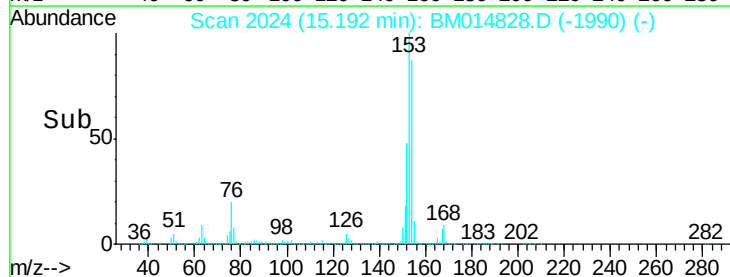
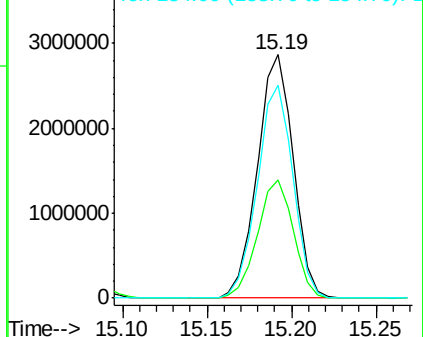
154 87.3 70.4 105.6

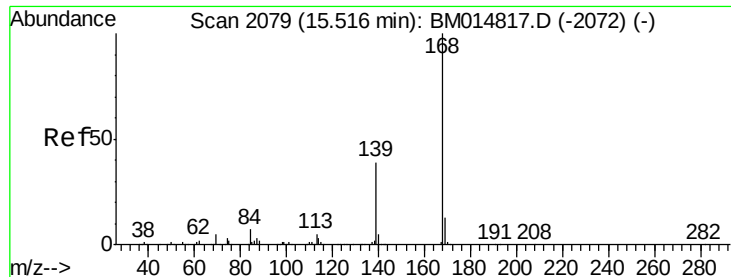


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#53

Dibenzofuran

Concen: 53.679 ng/ul

RT: 15.52 min Scan# 2079

Delta R.T. 0.00 min

Lab File: BM014828.D

Acq: 25 Apr 2018 02:18

Instrument :

BNA_M

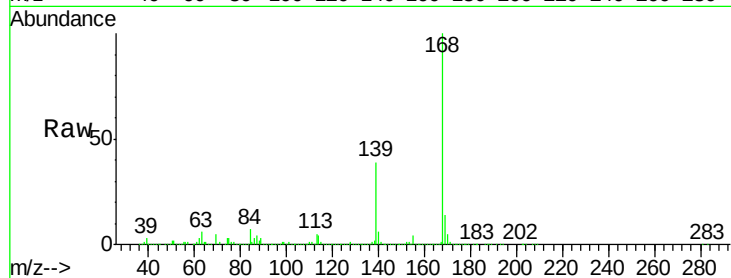
ClientSampleId :

Tot Ion:168 Resp: 5919535

Ion Ratio Lower Upper

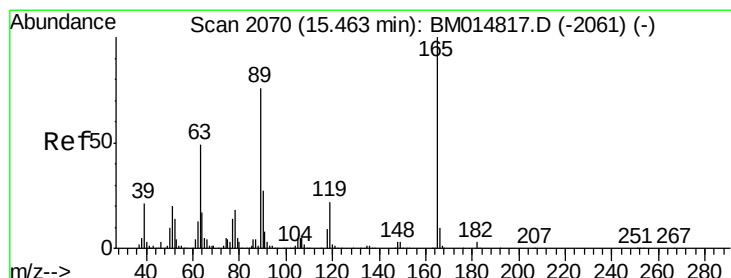
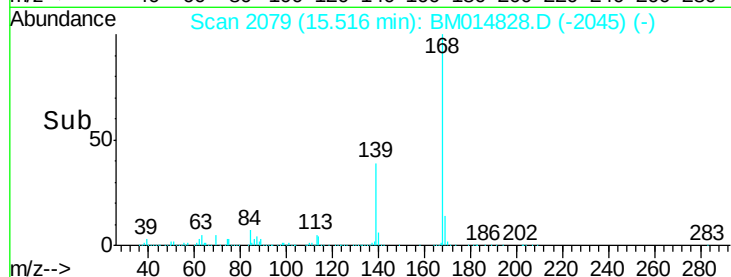
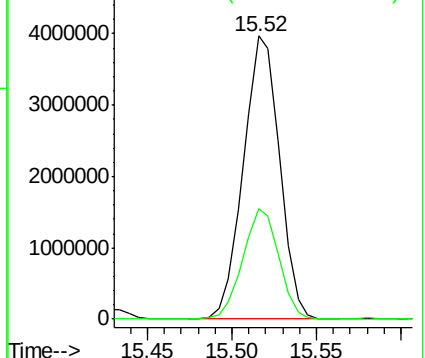
168 100

139 39.2 30.8 46.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#54

2,4-Dinitrotoluene

Concen: 3.085 ng/ul

RT: 15.43 min Scan# 2064

Delta R.T. -0.04 min

Lab File: BM014828.D

Acq: 25 Apr 2018 02:18

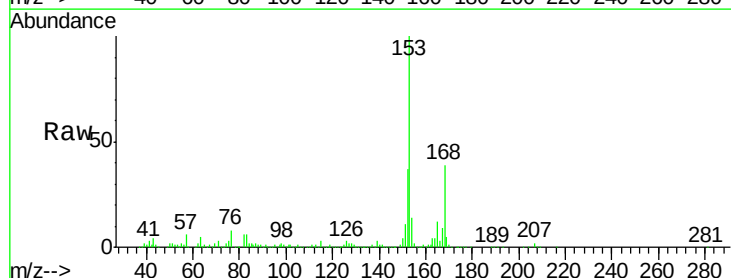
Tgt Ion:165 Resp: 75266

Ion Ratio Lower Upper

165 100

63 37.4 45.8 68.8#

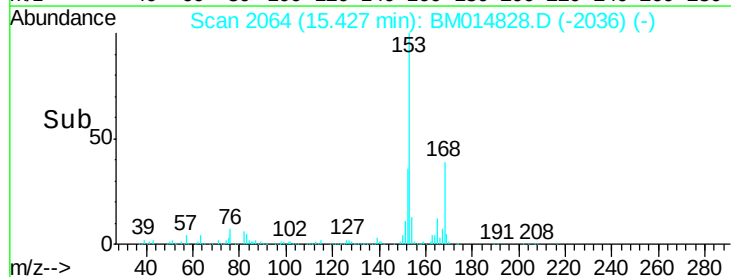
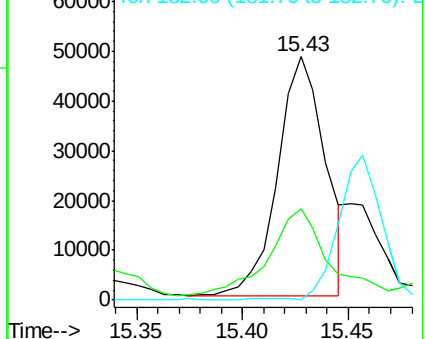
182 0.0 2.6 4.0#

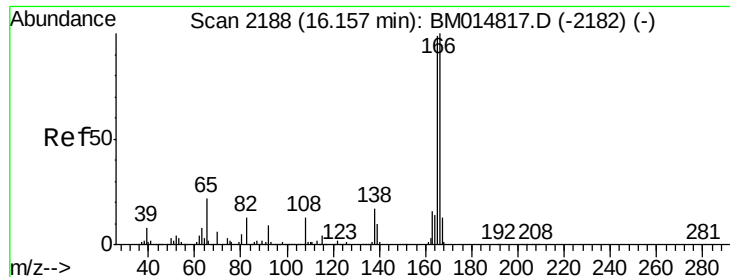


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BM0

Ion 182.00 (181.70 to 182.70): E





#58

Fluorene

Concen: 110.304 ng/ul

RT: 16.16 min Scan# 2189

Delta R.T. 0.01 min

Lab File: BM014828.D

Acq: 25 Apr 2018 02:18

Instrument :

BNA_M

ClientSampleId :

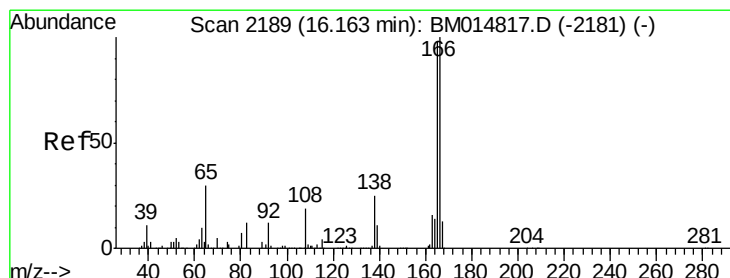
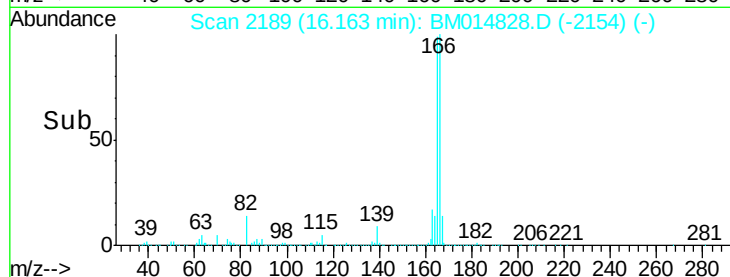
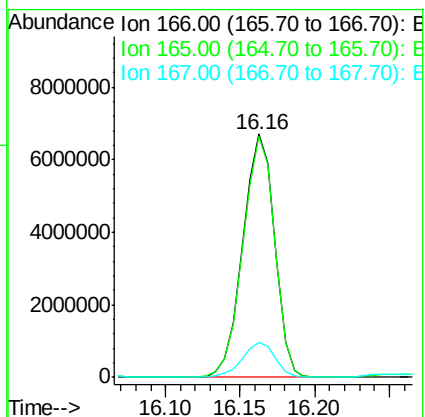
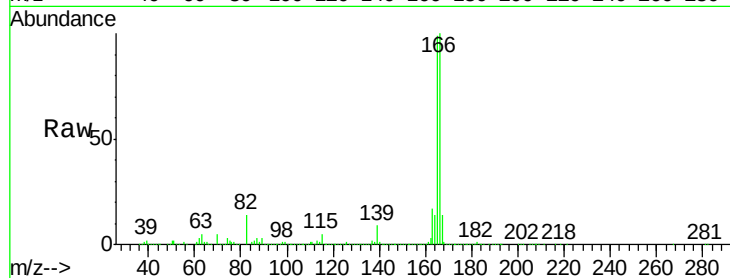
Tot Ion:166 Resp: 9822094

Ion Ratio Lower Upper

166 100

165 98.8 77.9 116.9

167 14.5 10.6 16.0



#60

4-Nitroaniline

Concen: 6.107 ng/ul

RT: 16.16 min Scan# 2189

Delta R.T. 0.00 min

Lab File: BM014828.D

Acq: 25 Apr 2018 02:18

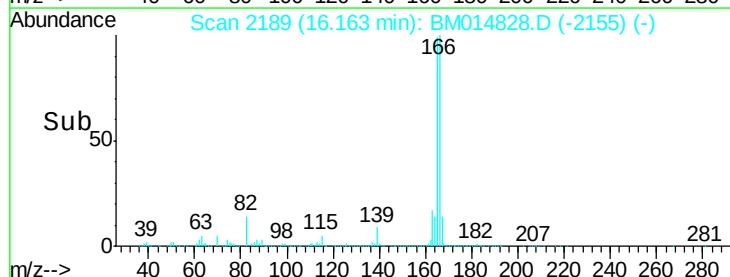
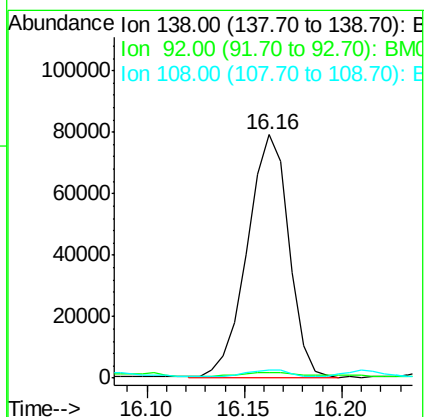
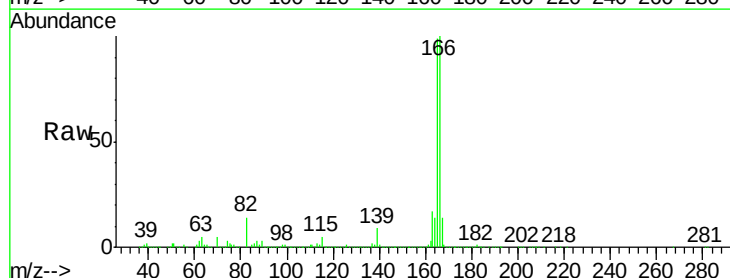
Tgt Ion:138 Resp: 116109

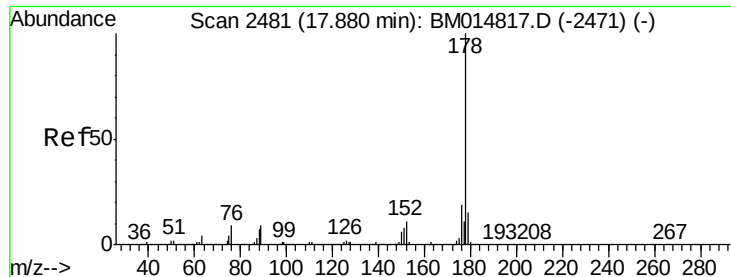
Ion Ratio Lower Upper

138 100

92 2.4 40.0 60.0#

108 3.4 80.0 120.0#





#69

Phenanthrene

Concen: 79.377 ng/ul

RT: 17.98 min Scan# 2498

Delta R.T. 0.10 min

Lab File: BM014828.D

Acq: 25 Apr 2018 02:18

Instrument :

BNA_M

ClientSampleId :

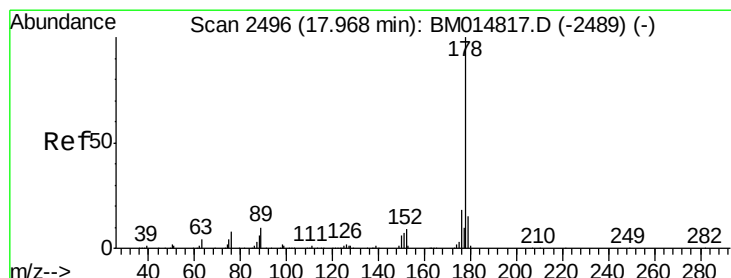
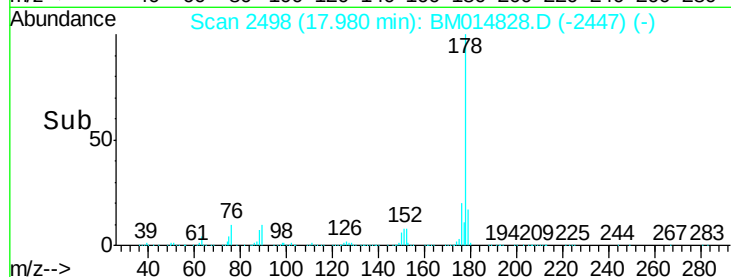
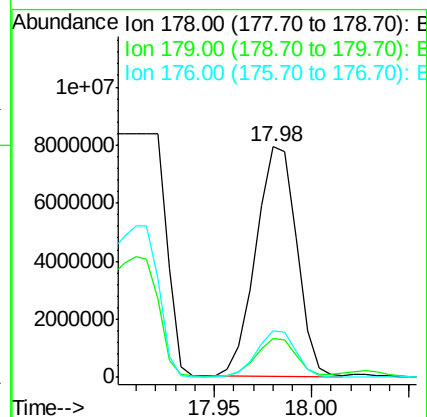
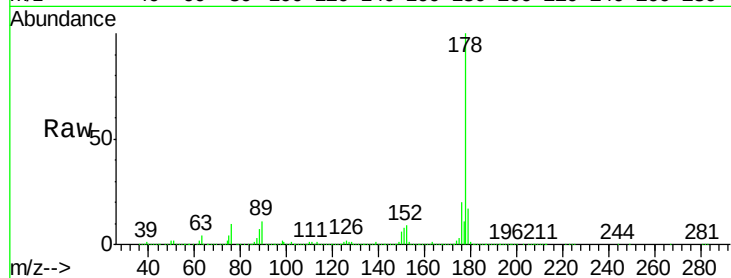
Tot Ion:178 Resp:11462462

Ion Ratio Lower Upper

178 100

179 16.9 12.6 19.0

176 20.1 14.9 22.3



#71

Anthracene

Concen: 78.214 ng/ul

RT: 17.98 min Scan# 2498

Delta R.T. 0.01 min

Lab File: BM014828.D

Acq: 25 Apr 2018 02:18

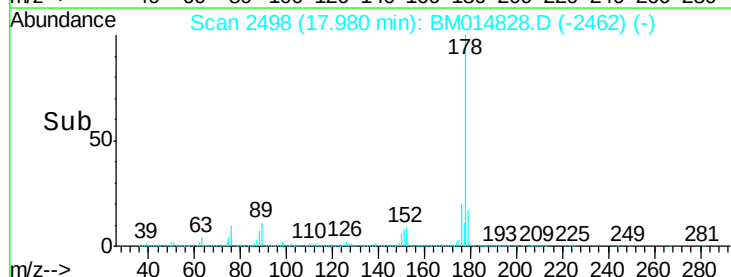
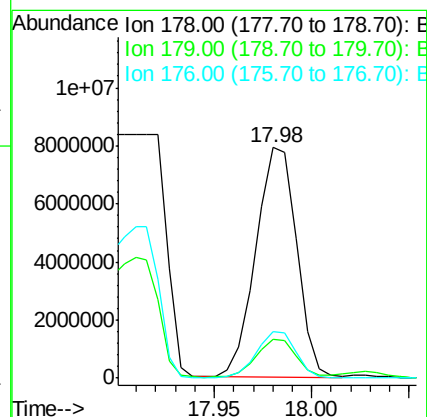
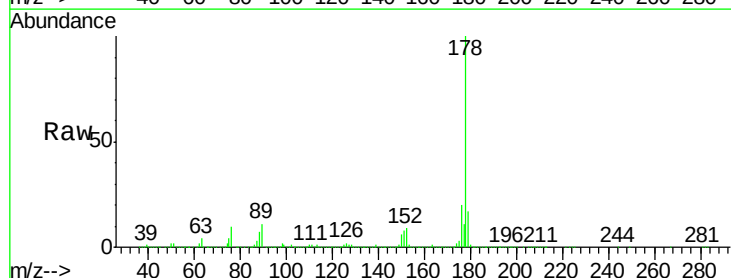
Tgt Ion:178 Resp:11462462

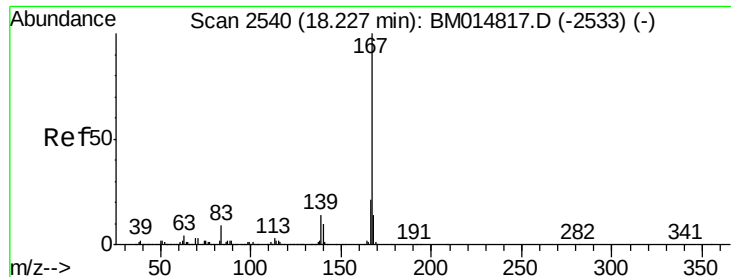
Ion Ratio Lower Upper

178 100

179 16.9 11.7 17.5

176 20.1 14.6 21.8

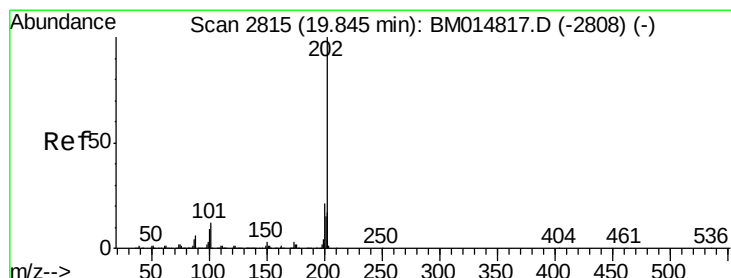
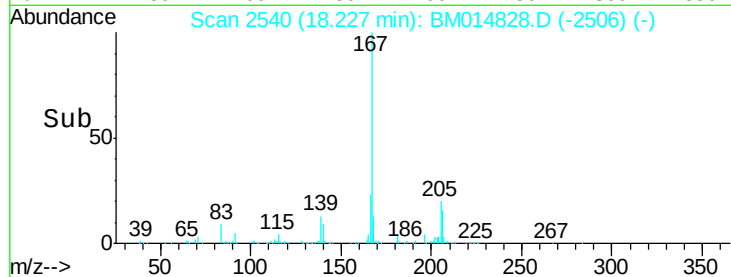
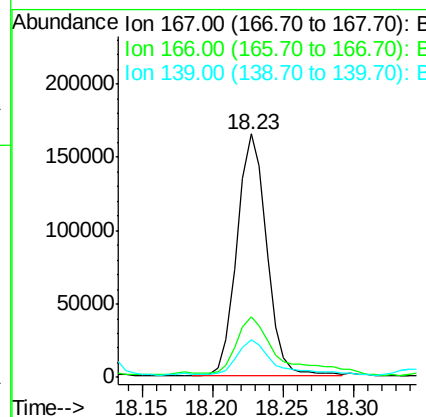
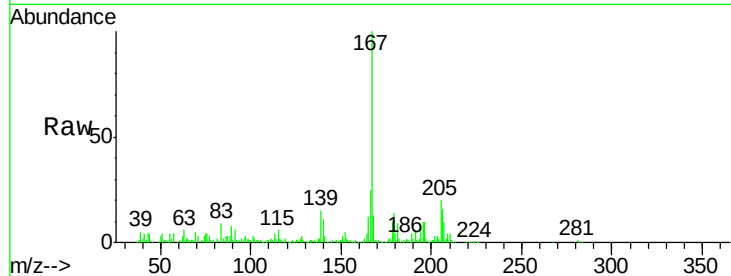




#72
 Carbazole
 Concen: 1.950 ng/ul
 RT: 18.23 min Scan# 2540
 Delta R.T. 0.00 min
 Lab File: BM014828.D
 Acq: 25 Apr 2018 02:18

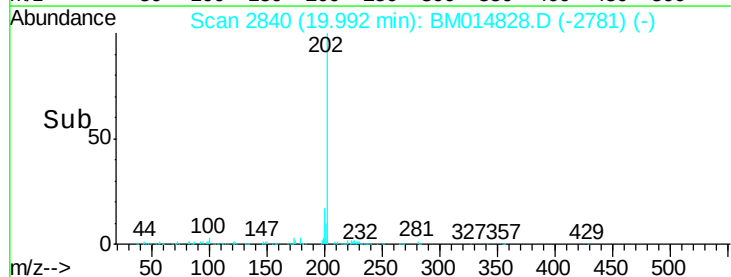
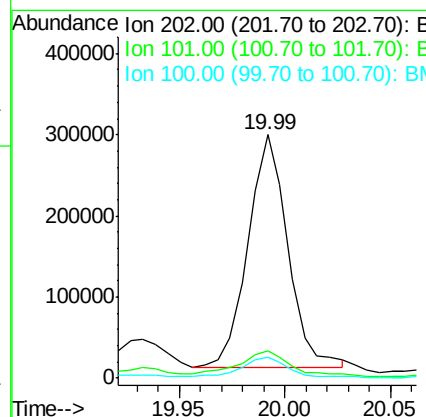
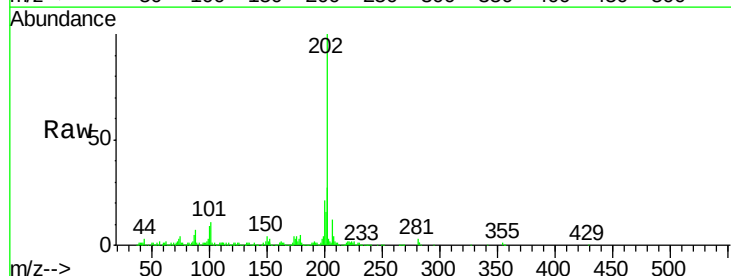
Instrument :
 BNA_M
 ClientSampleId :

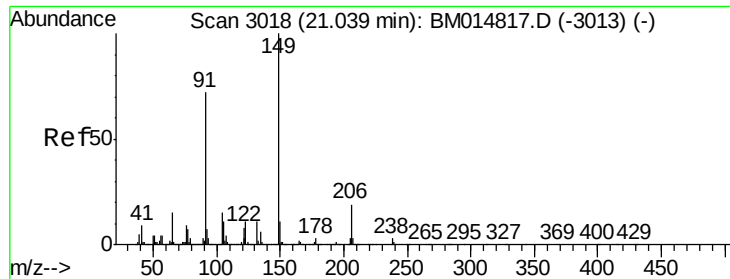
Tot Ion	Ratio	Lower	Upper
167	100		
166	25.0	17.1	25.7
139	15.3	10.0	15.0



#74
 Fluoranthene
 Concen: 2.372 ng/ul
 RT: 19.99 min Scan# 2840
 Delta R.T. 0.15 min
 Lab File: BM014828.D
 Acq: 25 Apr 2018 02:18

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.1	4.6	7.0
100	8.6	3.4	5.2

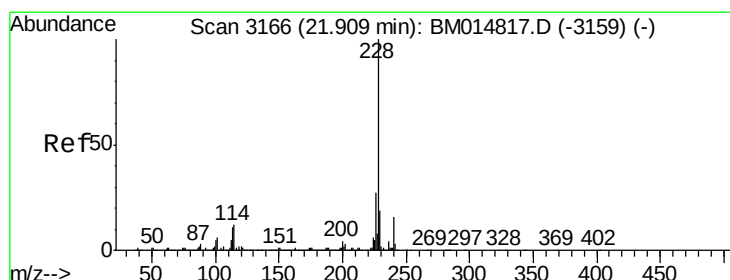
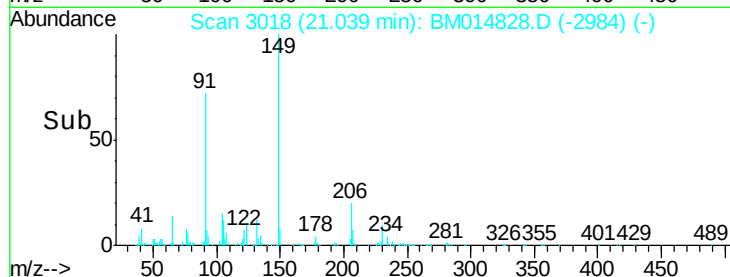
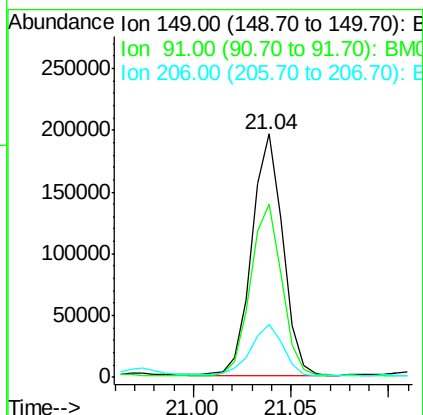
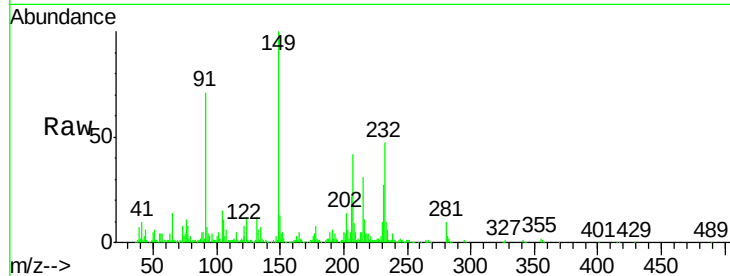




#78
Butylbenzylphthalate
Concen: 3.096 ng/ul
RT: 21.04 min Scan# 3018
Delta R.T. 0.00 min
Lab File: BM014828.D
Acq: 25 Apr 2018 02:18

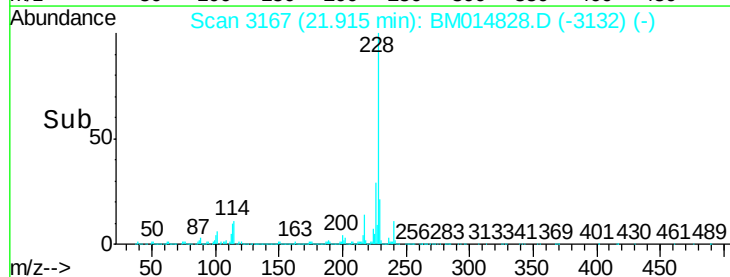
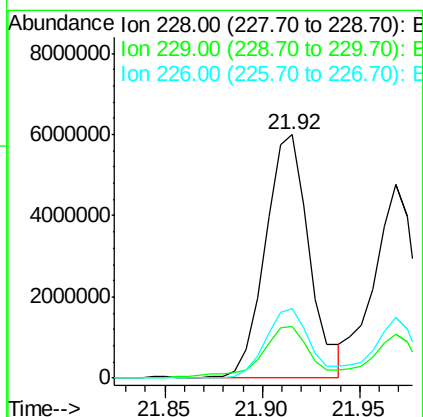
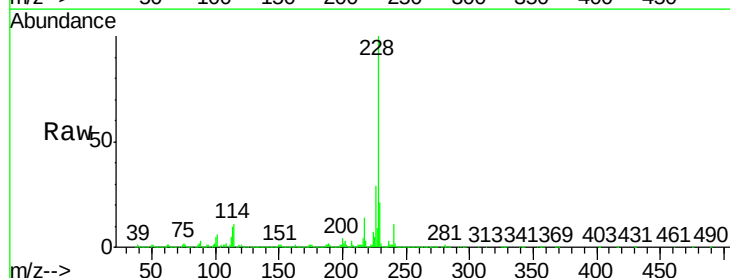
Instrument :
BNA_M
ClientSampled :

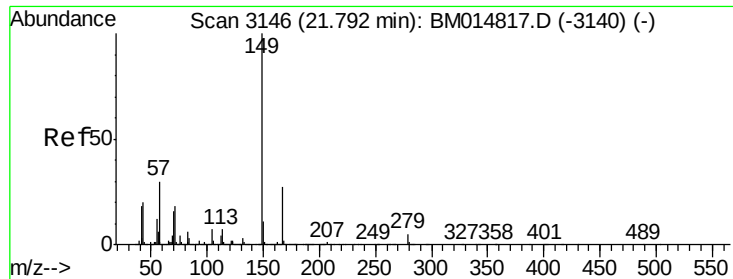
Tot Ion:149 Resp: 214906
Ion Ratio Lower Upper
149 100
91 71.1 62.7 94.1
206 21.5 20.8 31.2



#80
Benzo(a)anthracene
Concen: 54.484 ng/ul
RT: 21.92 min Scan# 3167
Delta R.T. 0.01 min
Lab File: BM014828.D
Acq: 25 Apr 2018 02:18

Tgt Ion:228 Resp: 9277532
Ion Ratio Lower Upper
228 100
229 21.2 15.4 23.0
226 28.7 21.4 32.0

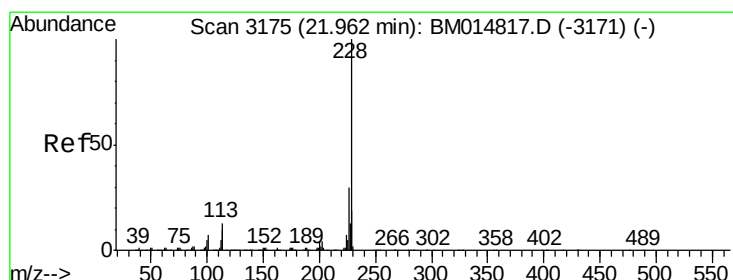
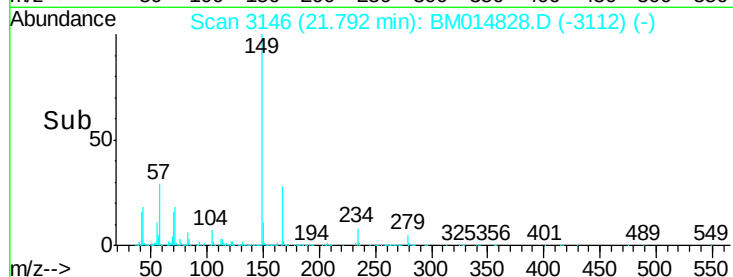
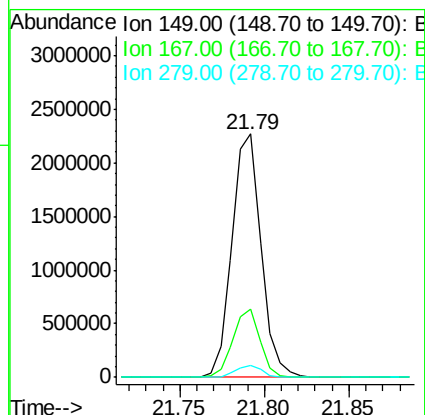
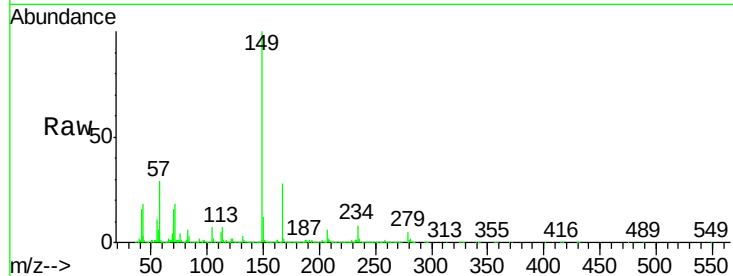




#81
 Bis(2-ethylhexyl)phthalate
 Concen: 26.530 ng/ul
 RT: 21.79 min Scan# 3146
 Delta R.T. 0.00 min
 Lab File: BM014828.D
 Acq: 25 Apr 2018 02:18

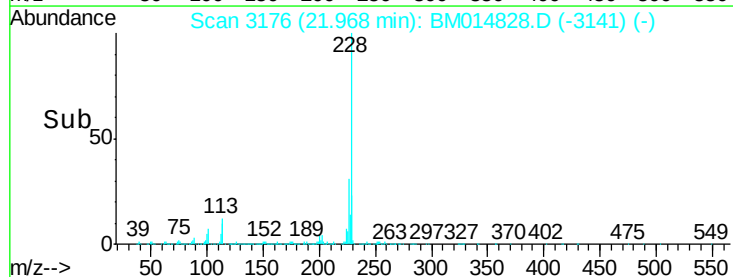
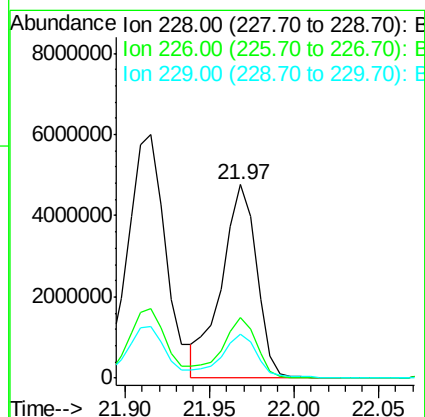
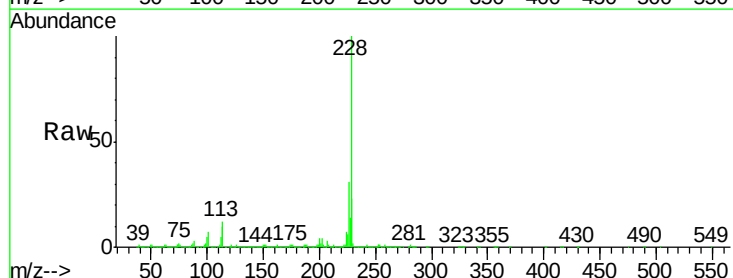
Instrument :
 BNA_M
 ClientSampleId :

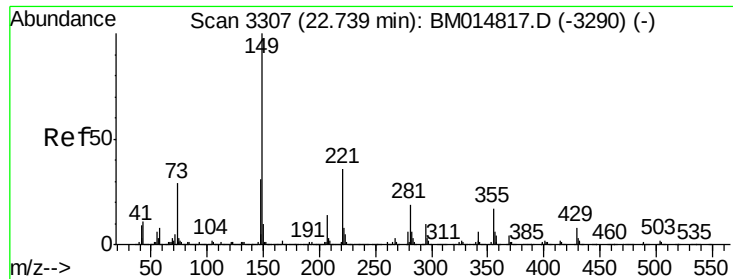
Tot Ion:149 Resp: 2702928
 Ion Ratio Lower Upper
 149 100
 167 27.8 22.8 34.2
 279 4.9 4.9 7.3#



#82
 Chrysene
 Concen: 43.111 ng/ul
 RT: 21.97 min Scan# 3176
 Delta R.T. 0.01 min
 Lab File: BM014828.D
 Acq: 25 Apr 2018 02:18

Tgt Ion:228 Resp: 6872300
 Ion Ratio Lower Upper
 228 100
 226 31.1 23.4 35.2
 229 22.8 15.5 23.3

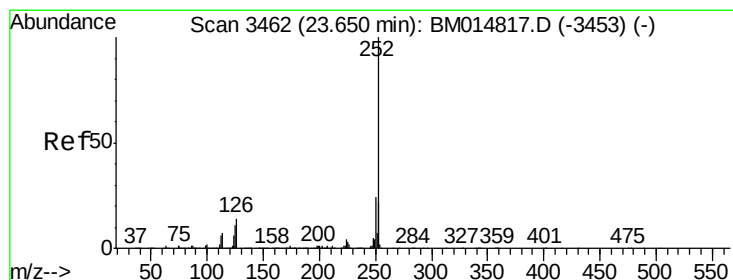
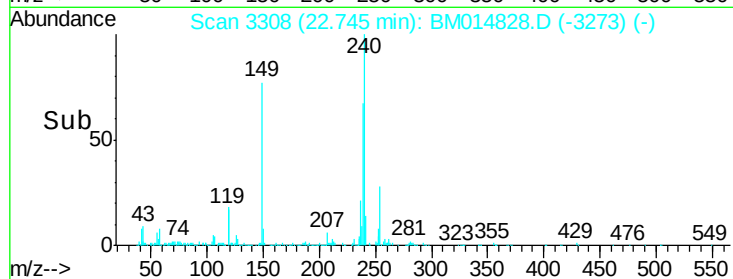
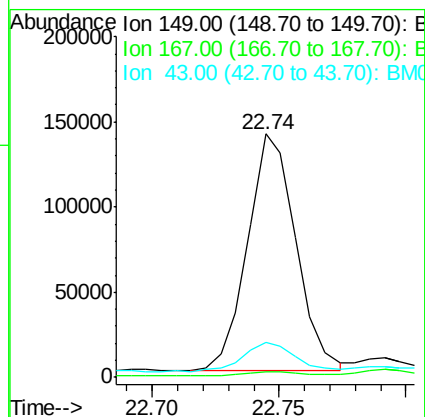
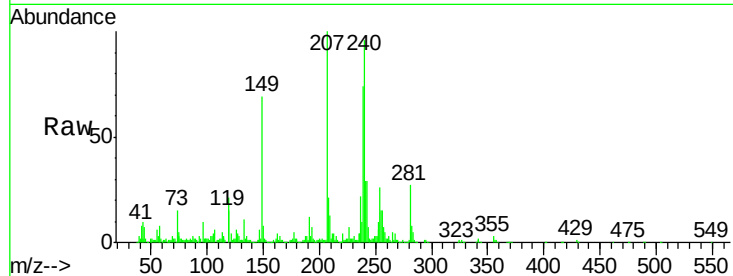




#84
Di-n-octyl phthalate
Concen: 1.254 ng/ul
RT: 22.74 min Scan# 3308
Delta R.T. 0.01 min
Lab File: BM014828.D
Acq: 25 Apr 2018 02:18

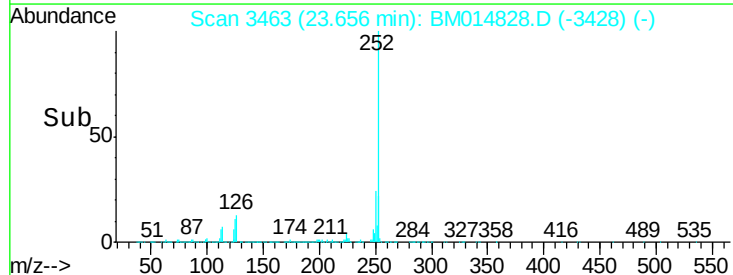
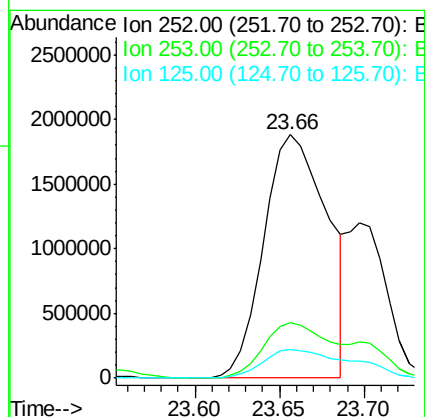
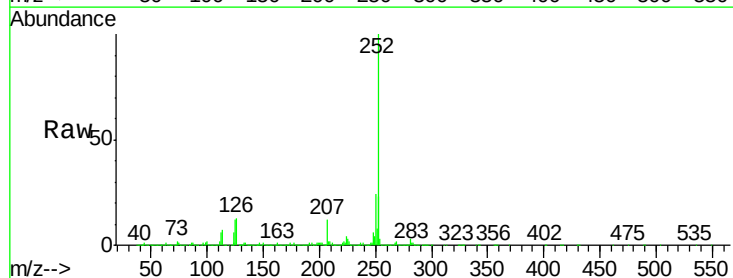
Instrument :
BNA_M
ClientSampleId :

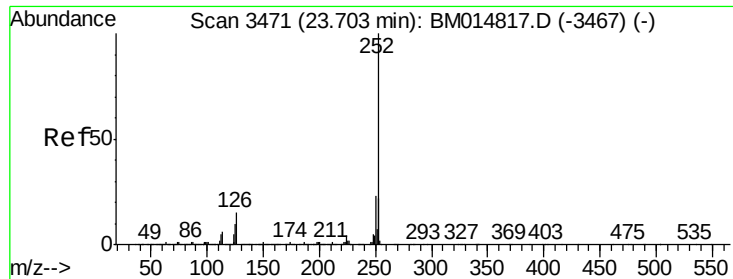
Tot Ion	Ratio	Lower	Upper
149	100		
167	2.1	1.3	1.9#
43	14.3	7.3	10.9#



#85
Benzo(b)fluoranthene
Concen: 32.289 ng/ul
RT: 23.66 min Scan# 3463
Delta R.T. 0.01 min
Lab File: BM014828.D
Acq: 25 Apr 2018 02:18

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.9	26.9
125	11.5	3.6	5.4#





#86

Benzo(k)fluoranthene

Concen: 33.579 ng/ul

RT: 23.66 min Scan# 3463

Delta R.T. -0.05 min

Lab File: BM014828.D

Acq: 25 Apr 2018 02:18

Instrument :

BNA_M

ClientSampleId :

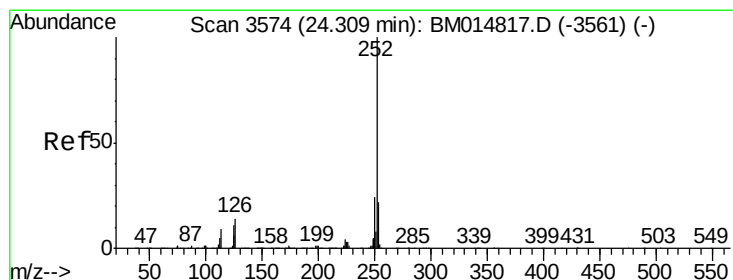
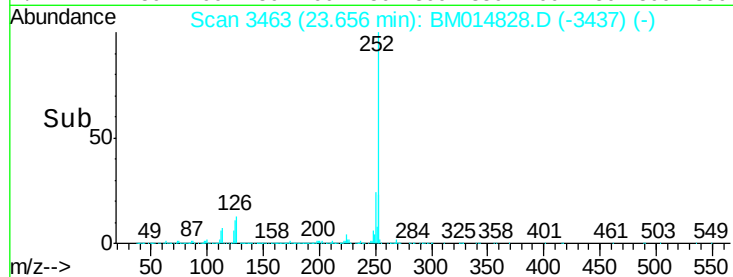
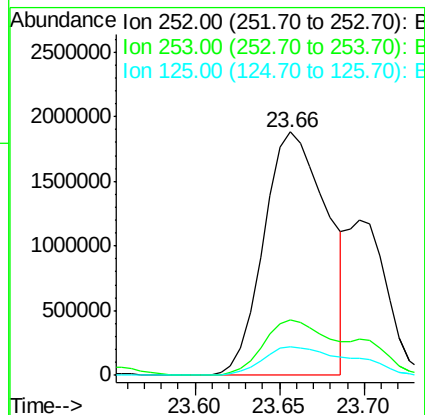
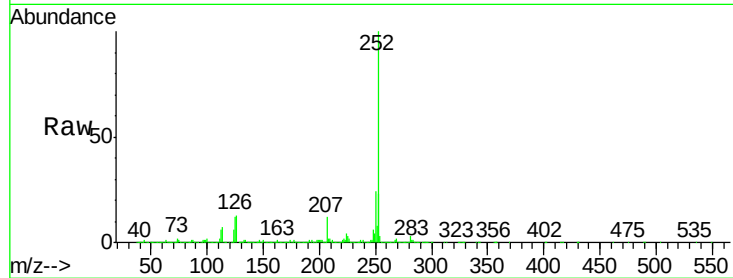
Tot Ion:252 Resp: 4891256

Ion Ratio Lower Upper

252 100

253 22.7 17.1 25.7

125 11.5 3.4 5.2#



#88

Benzo(a)pyrene

Concen: 21.846 ng/ul

RT: 24.30 min Scan# 3573

Delta R.T. -0.01 min

Lab File: BM014828.D

Acq: 25 Apr 2018 02:18

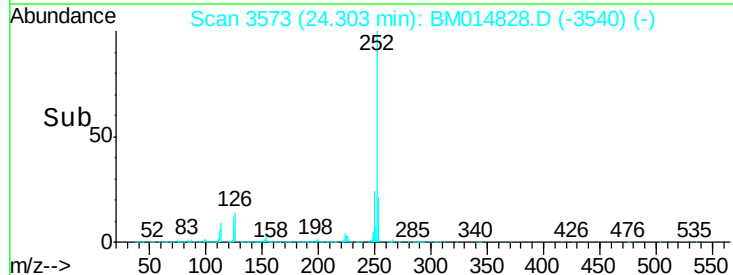
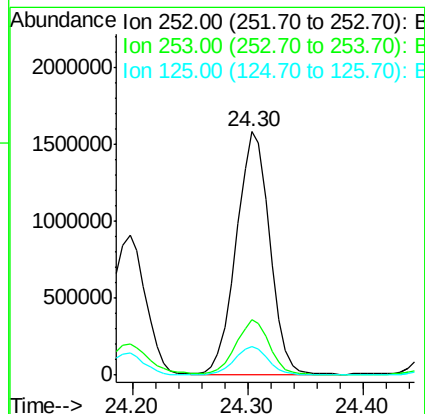
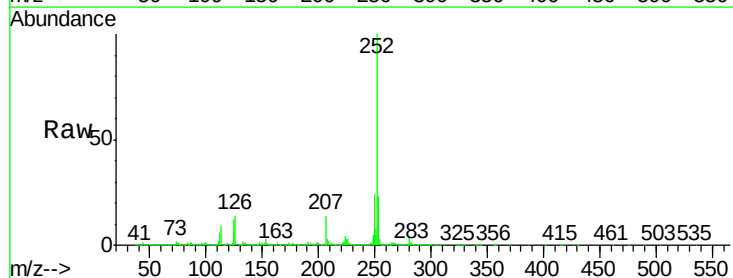
Tgt Ion:252 Resp: 3139192

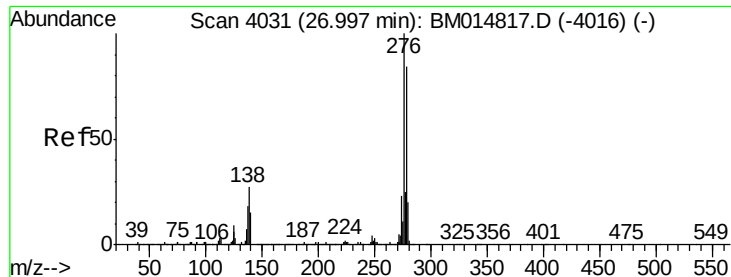
Ion Ratio Lower Upper

252 100

253 22.8 18.2 27.2

125 11.8 4.0 6.0#





#89

Indeno(1,2,3-cd)pyrene

Concen: 5.154 ng/ul

RT: 26.99 min Scan# 4029

Delta R.T. -0.01 min

Lab File: BM014828.D

Acq: 25 Apr 2018 02:18

Instrument :

BNA_M

ClientSampleId :

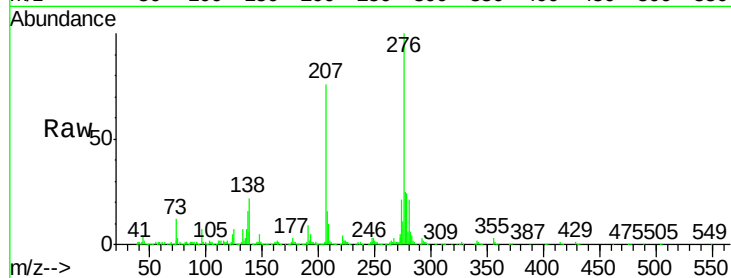
Tot Ion:276 Resp: 895996

Ion Ratio Lower Upper

276 100

138 22.0 9.3 13.9#

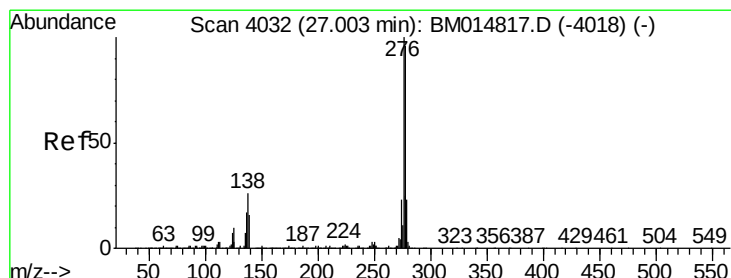
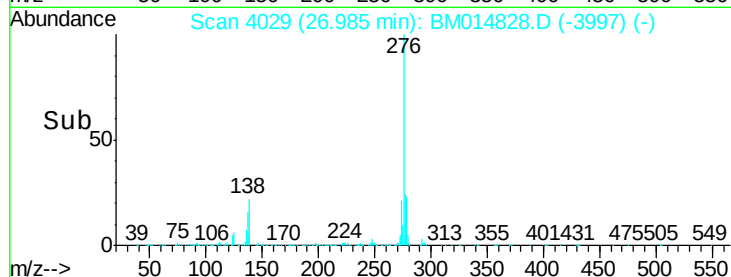
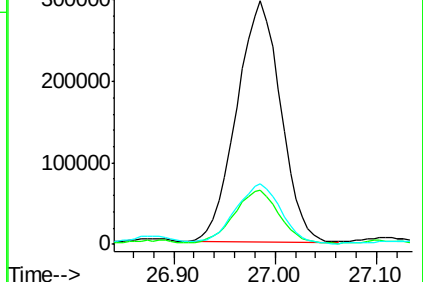
277 25.1 19.9 29.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#90

Dibenzo(a,h)anthracene

Concen: 1.797 ng/ul

RT: 26.99 min Scan# 4029

Delta R.T. -0.02 min

Lab File: BM014828.D

Acq: 25 Apr 2018 02:18

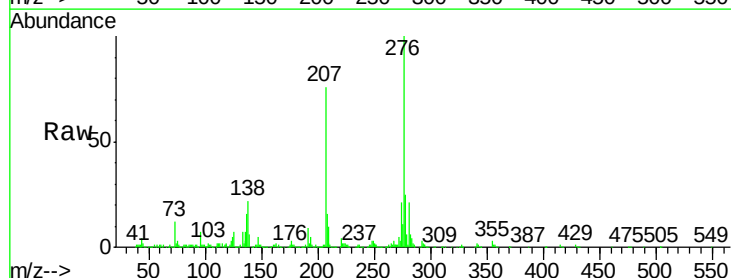
Tgt Ion:278 Resp: 262971

Ion Ratio Lower Upper

278 100

139 23.2 5.8 8.8#

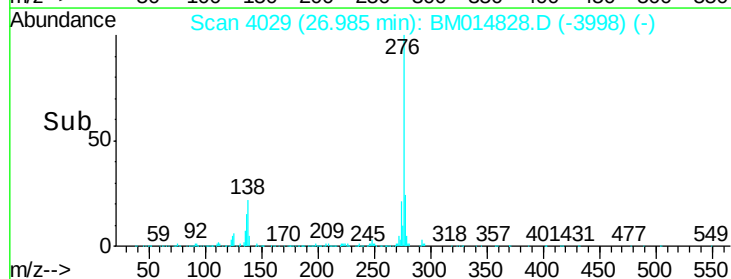
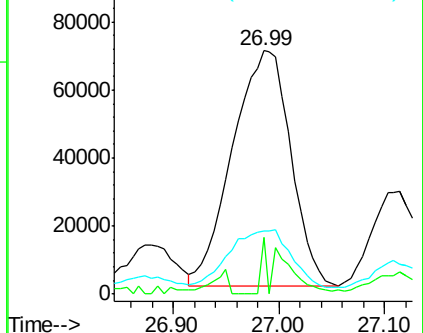
279 25.8 18.6 27.8

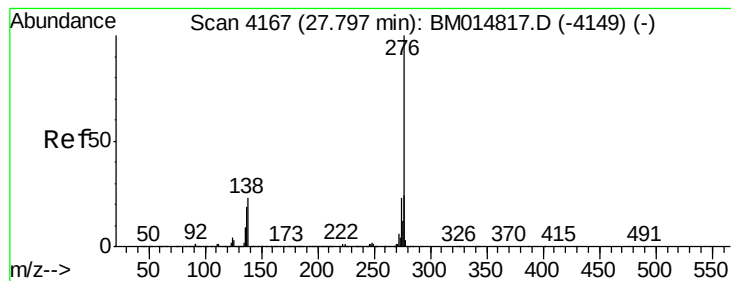


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 4.867 ng/ul

RT: 27.78 min Scan# 4164

Delta R.T. -0.02 min

Lab File: BM014828.D

Acq: 25 Apr 2018 02:18

Instrument :

BNA_M

ClientSampleId :

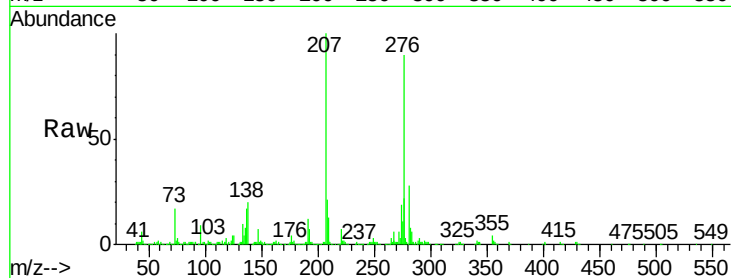
Tot Ion:276 Resp: 695991

Ion Ratio Lower Upper

276 100

138 22.2 8.5 12.7#

277 24.5 18.6 28.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

