

Data Path : Z:\HPCHEM1\BNA M\DATA\BM022818\
 Data File : BM014426.D
 Acq On : 01 Mar 2018 06:21
 Operator : SJ/JU
 Sample : J1646-01
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_M
 ClientSampleId :
 BE5W7

Quant Time: Mar 01 07:06:11 2018
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M
 Quant Title : SVOA CALIBRATION
 QLast Update : Thu Mar 01 03:03:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.51	152	142257	20.00	ng/ul	0.00
18) Naphthalene-d8	10.28	136	642537	20.00	ng/ul	0.00
35) Acenaphthene-d10	14.17	164	414151	20.00	ng/ul	0.00
61) Phenanthrene-d10	16.94	188	913081	20.00	ng/ul	0.00
75) Chrysene-d12	21.16	240	899638	20.00	ng/ul	0.00
83) Perylene-d12	23.35	264	701086	20.00	ng/ul	0.03

System Monitoring Compounds

3) 1,4-Dioxane-d8	3.09	96	12892	3.88	ng/uL	0.00
5) Phenol-d5	6.72	99	315263	26.22	ng/ul	0.00
7) Bis-(2-Chloroethyl)ether-d	6.86	67	190552	26.18	ng/ul	0.00
9) 2-Chlorophenol-d4	7.06	132	262450	28.47	ng/ul	0.00
13) 4-Methylphenol-d8	8.25	113	255693	24.30	ng/ul	0.00
19) Nitrobenzene-d5	8.67	128	136640	28.78	ng/ul	0.00
22) 2-Nitrophenol-d4	9.39	143	157499	32.05	ng/ul	0.00
26) 2,4-Dichlorophenol-d3	9.93	165	290671	28.55	ng/ul	0.00
29) 4-Chloroaniline-d4	10.45	131	171572	17.11	ng/ul	0.00
43) Dimethylphthalate-d6	13.60	166	994143	29.07	ng/ul	0.00
46) Acenaphthylene-d8	13.86	160	1232931	29.23	ng/ul	0.00
51) 4-Nitrophenol-d4	14.45	143	114669	24.28	ng/ul	0.02
57) Fluorene-d10	15.17	176	853083	27.84	ng/ul	0.00
62) 4,6-Dinitro-2-methylphenol	15.34	200	35685	6.51	ng/ul	0.00
70) Anthracene-d10	17.03	188	1375350	31.22	ng/ul	0.00
76) Pyrene-d10	19.35	212	1489653	32.10	ng/ul	0.00
87) Benzo(a)pyrene-d12	23.21	264	1012774	29.68	ng/ul	0.03

Target Compounds

					Ovalue	
4) Benzaldehyde	6.68	77	4958	1.011	ng/ul#	22
6) Phenol	6.75	94	40908	3.242	ng/ul	92
14) Acetophenone	8.35	105	35122	1.935	ng/ul	92
20) Nitrobenzene	8.71	77	23077	1.643	ng/ul#	89
28) Naphthalene	10.33	128	71371	2.163	ng/ul	99
34) 2-Methylnaphthalene	11.96	142	63047	2.510	ng/ul	98
44) Dimethylphthalate	13.64	163	308386	9.144	ng/ul	98
47) Acenaphthylene	13.89	152	97531	2.447	ng/ul	99
49) Acenaphthene	14.24	153	51953	1.851	ng/ul	90
53) Dibenzofuran	14.58	168	54760	1.301	ng/ul	91
58) Fluorene	15.23	166	62768	1.728	ng/ul#	95
64) N-Nitrosodiphenylamine	15.46	169	26563	1.012	ng/ul#	73
69) Phenanthrene	16.98	178	1210933	23.018	ng/ul	99
71) Anthracene	17.07	178	282184	5.334	ng/ul	99
72) Carbazole	17.36	167	145021	3.260	ng/ul#	91
73) Di-n-butylphthalate	17.92	149	169598	2.955	ng/ul#	92
74) Fluoranthene	19.02	202	2393318	38.078	ng/ul#	95
77) Pyrene	19.38	202	2193401	36.687	ng/ul#	92
78) Butylbenzylphthalate	20.29	149	234870	9.501	ng/ul#	82
80) Benzo(a)anthracene	21.14	228	1144996	20.393	ng/ul	96
82) Chrysene	21.20	228	1188670	22.694	ng/ul	97
84) Di-n-octyl phthalate	21.94	149	181806	3.022	ng/ul#	1
85) Benzo(b)fluoranthene	22.70	252	1395740	29.732	ng/ul#	96

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ClientSampleId :
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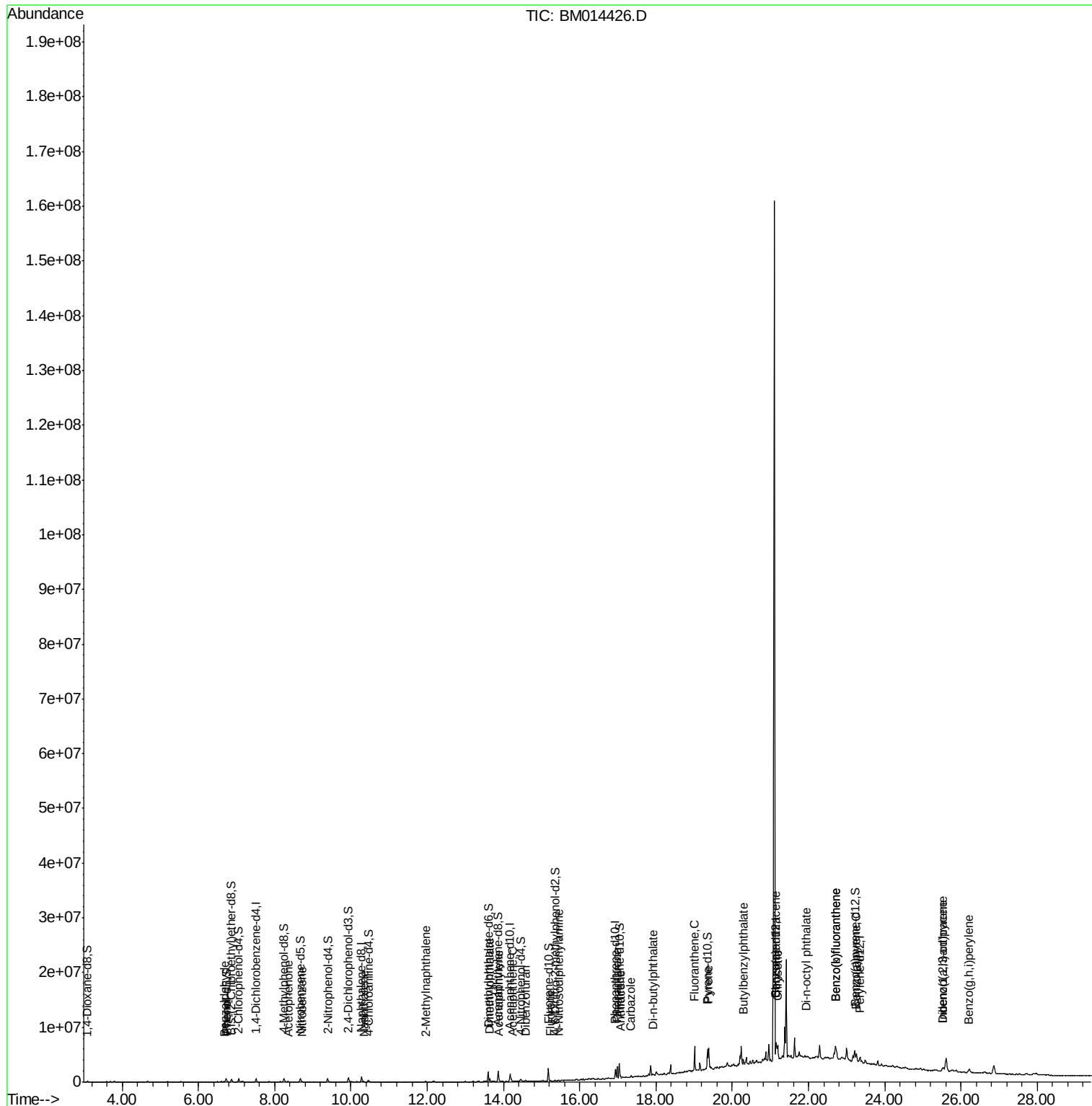
Quant Time: Mar 01 07:06:11 2018
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-BM021418.M
Quant Title : SVOA CALIBRATION
QLast Update : Thu Mar 01 03:03:26 2018
Response via : Initial Calibration

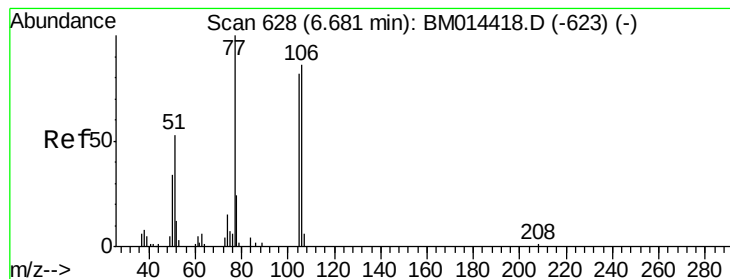
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
86) Benzo(k)fluoranthene	22.70	252	1395740	31.272	ng/ul#	94
88) Benzo(a)pyrene	23.26	252	838581	19.991	ng/ul#	92
89) Indeno(1,2,3-cd)pyrene	25.53	276	605213	14.868	ng/ul	97
90) Dibenzo(a,h)anthracene	25.52	278	162908	4.816	ng/ul#	84
91) Benzo(g,h,i)perylene	26.20	276	474227	14.381	ng/ul#	90

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

```
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#4

Benzaldehyde

Concen: 1.011 ng/ul

RT: 6.68 min Scan# 628

Delta R.T. 0.00 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

Instrument :

BNA_M

ClientSampleId :

BE5W7

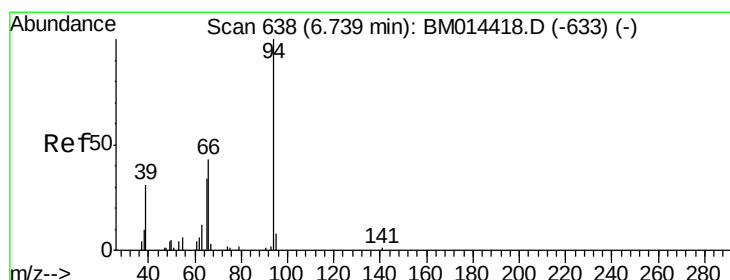
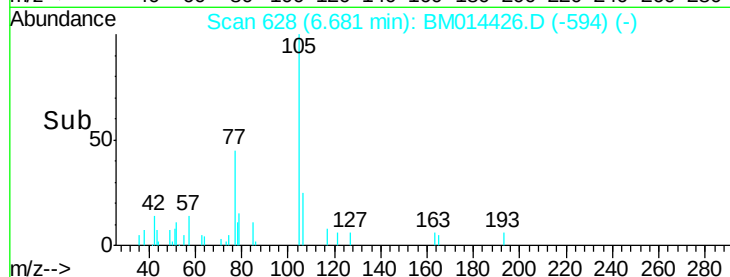
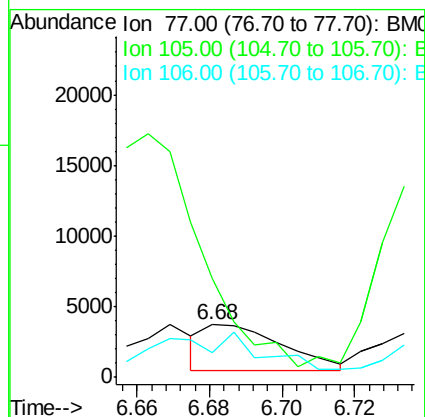
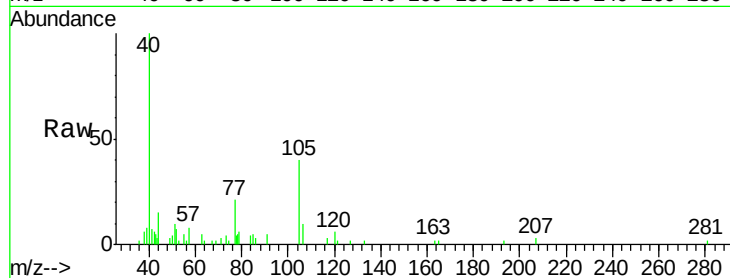
Tot Ion: 77 Resp: 4958

Ion Ratio Lower Upper

77 100

105 187.4 66.1 99.1#

106 47.7 67.8 101.6#



#6

Phenol

Concen: 3.242 ng/ul

RT: 6.75 min Scan# 640

Delta R.T. 0.01 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

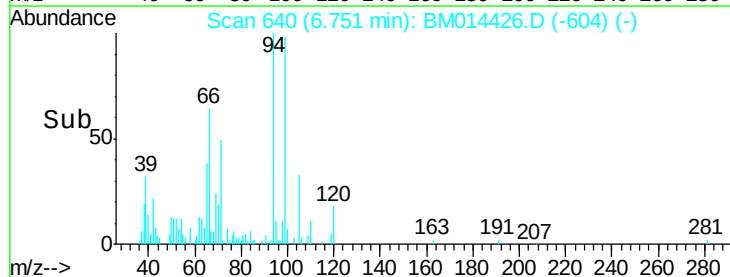
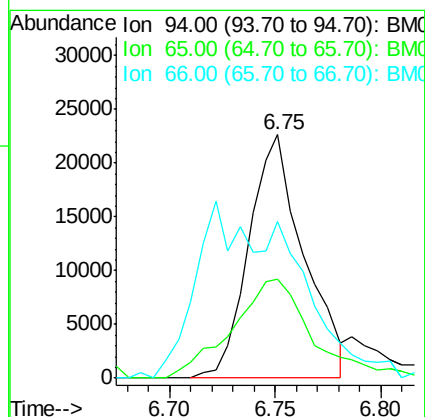
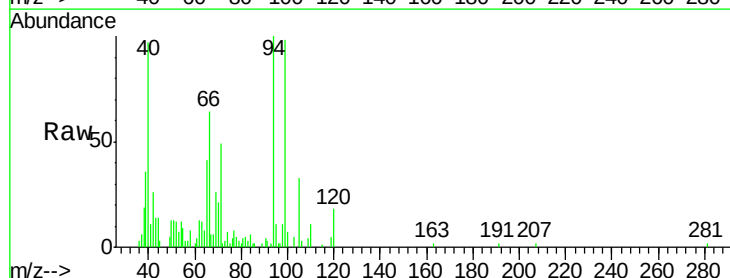
Tgt Ion: 94 Resp: 40908

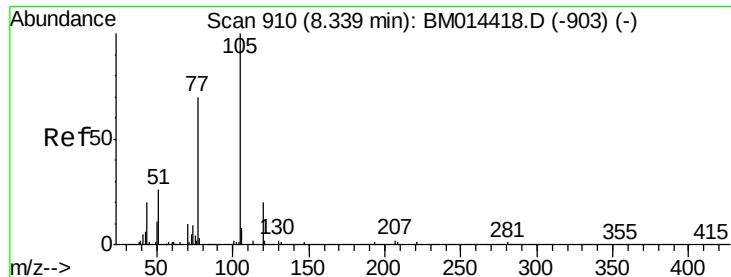
Ion Ratio Lower Upper

94 100

65 40.8 28.2 42.4

66 64.2 47.2 70.8





#14

Acetophenone

Concen: 1.935 ng/ul

RT: 8.35 min Scan# 911

Delta R.T. 0.01 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

Instrument :

BNA_M

ClientSampleId :

BE5W7

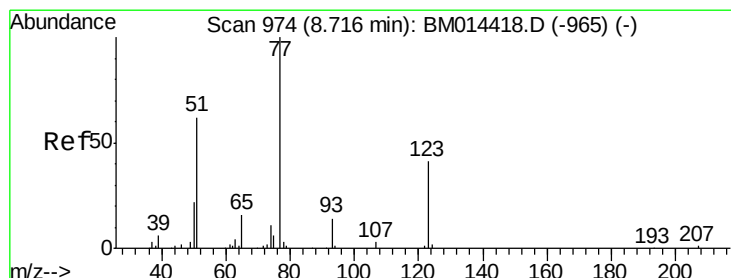
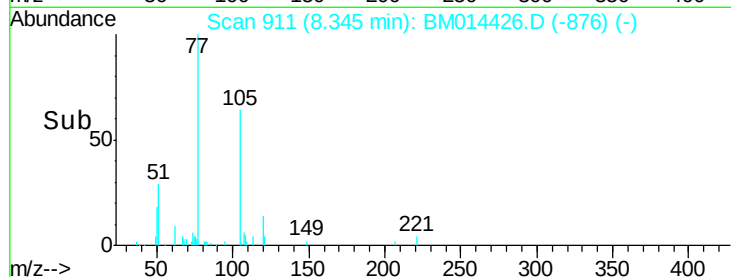
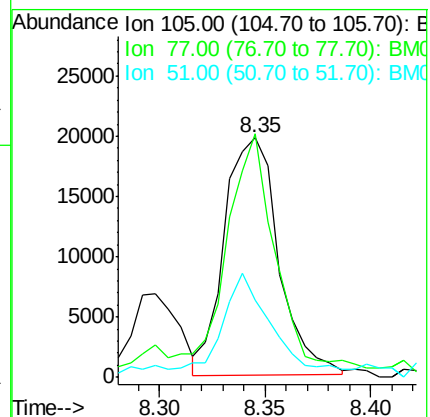
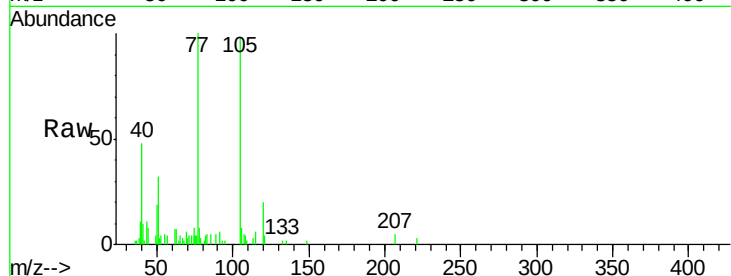
Tot Ion:105 Resp: 35122

Ion Ratio Lower Upper

105 100

77 101.8 74.2 111.4

51 32.1 23.4 35.2



#20

Nitrobenzene

Concen: 1.643 ng/ul

RT: 8.71 min Scan# 973

Delta R.T. -0.01 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

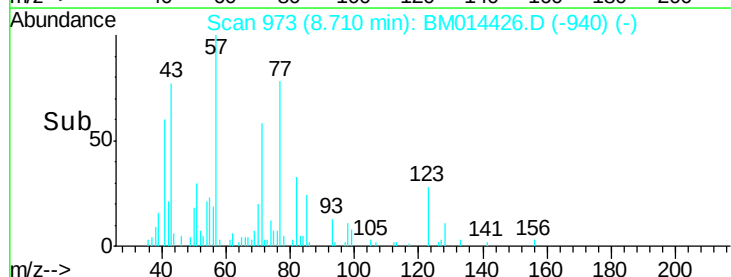
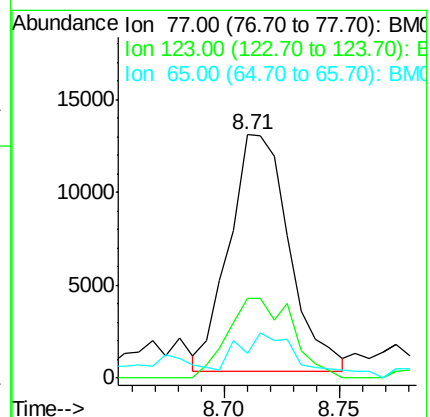
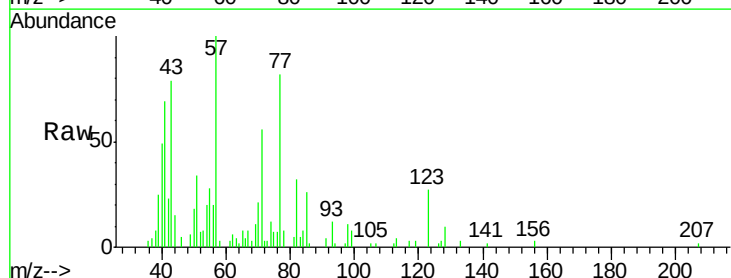
Tgt Ion: 77 Resp: 23077

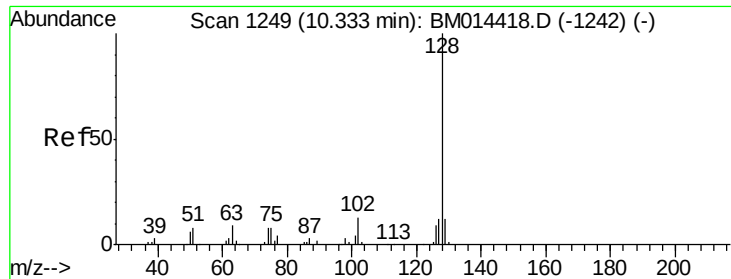
Ion Ratio Lower Upper

77 100

123 32.8 31.0 46.6

65 10.0 12.2 18.2#





#28

Naphthalene

Concen: 2.163 ng/ul

RT: 10.33 min Scan# 1249

Delta R.T. 0.00 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

Instrument :

BNA_M

ClientSampleId :

BE5W7

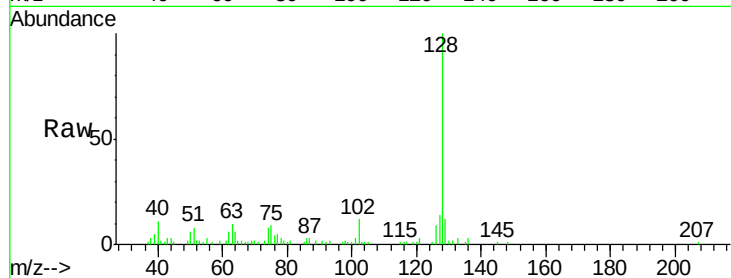
Tot Ion:128 Resp: 71371

Ion Ratio Lower Upper

128 100

129 11.6 8.8 13.2

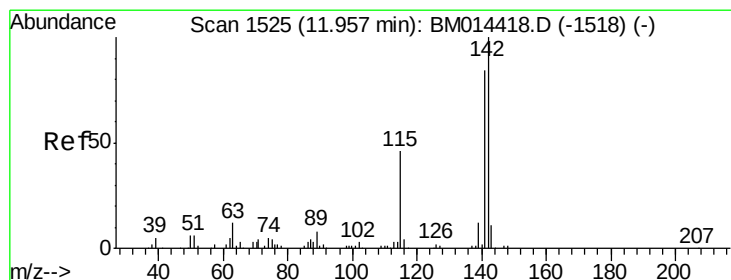
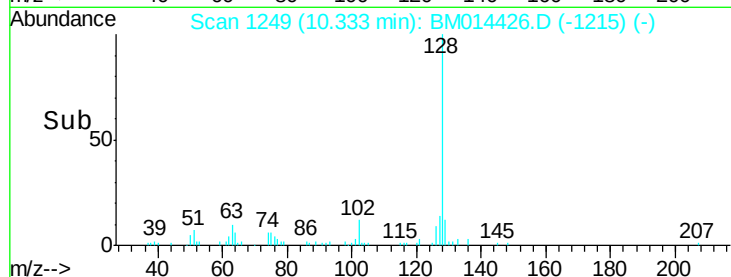
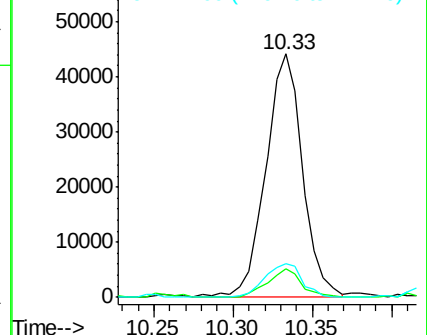
127 13.8 10.6 16.0



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: 2.510 ng/ul

RT: 11.96 min Scan# 1525

Delta R.T. 0.00 min

Lab File: BM014426.D

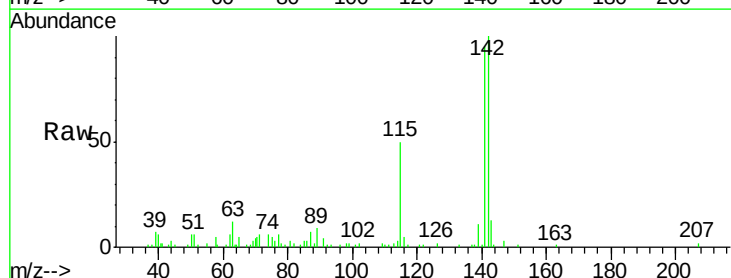
Acq: 01 Mar 2018 06:21

Tgt Ion:142 Resp: 63047

Ion Ratio Lower Upper

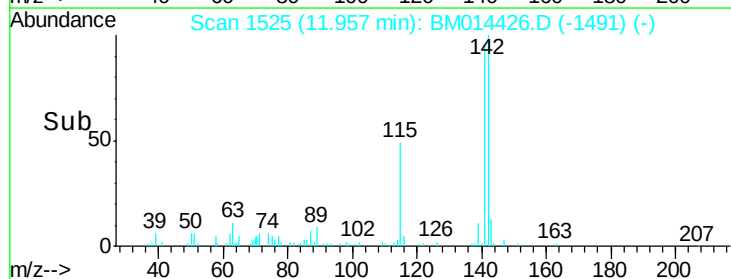
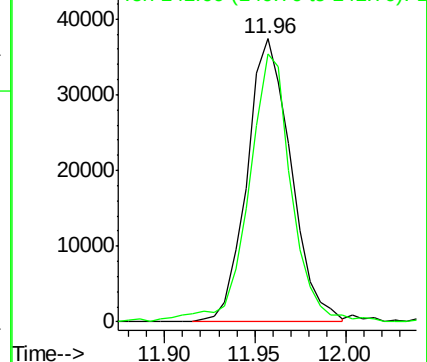
142 100

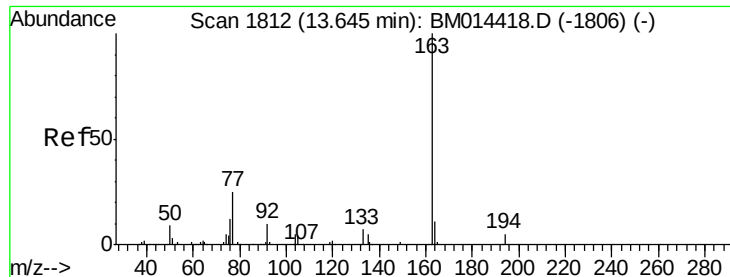
141 94.7 74.1 111.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#44

Dimethylphthalate

Concen: 9.144 ng/ul

RT: 13.64 min Scan# 1812

Delta R.T. 0.00 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

Instrument :

BNA_M

ClientSampleId :

BE5W7

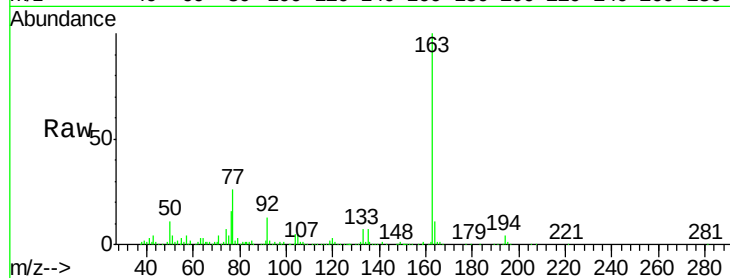
Tot Ion:163 Resp: 308386

Ion Ratio Lower Upper

163 100

194 3.9 3.5 5.3

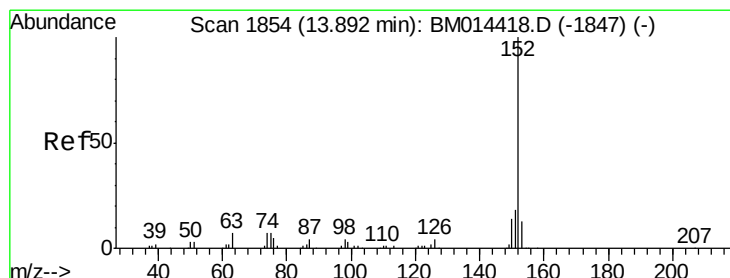
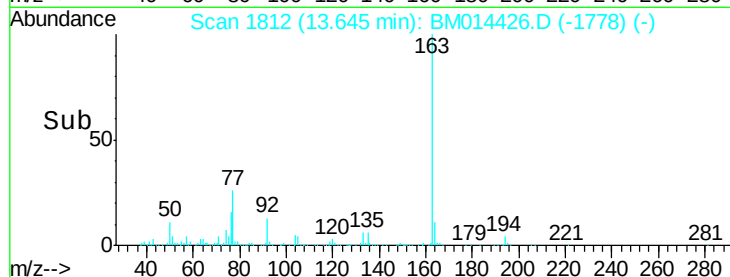
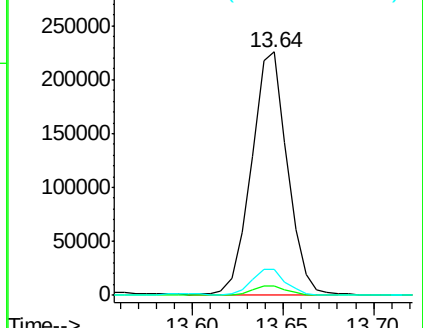
164 10.9 8.2 12.4



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#47

Acenaphthylene

Concen: 2.447 ng/ul

RT: 13.89 min Scan# 1854

Delta R.T. 0.00 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

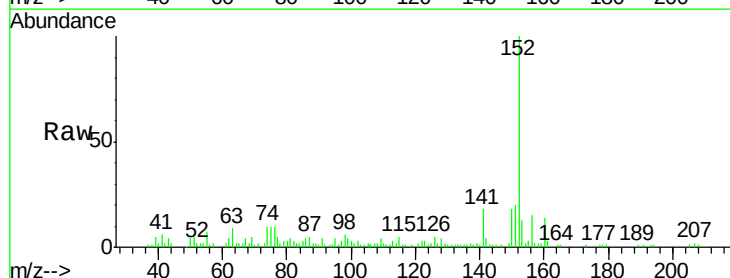
Tgt Ion:152 Resp: 97531

Ion Ratio Lower Upper

152 100

151 19.7 16.3 24.5

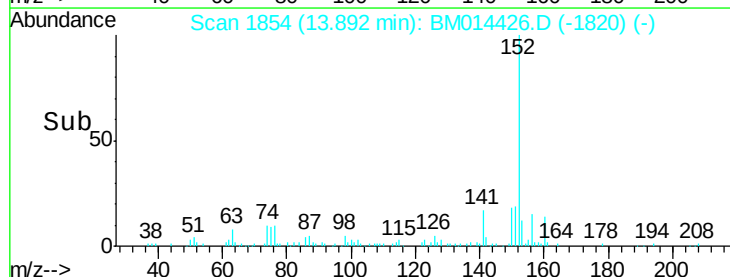
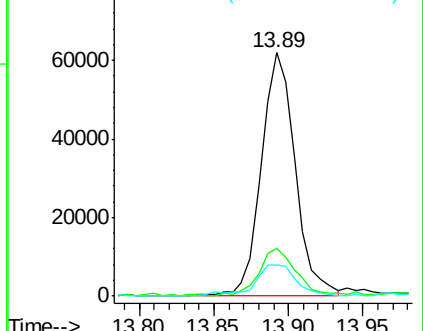
153 13.0 10.2 15.4

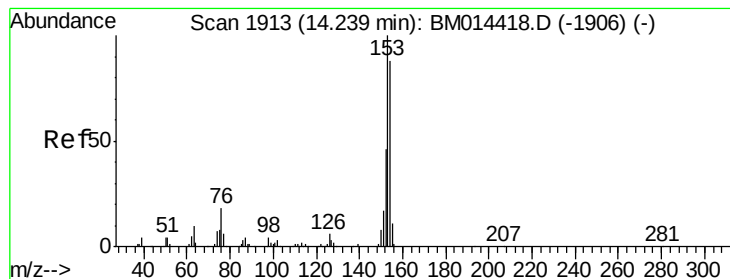


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#49

Acenaphthene

Concen: 1.851 ng/ul

RT: 14.24 min Scan# 1913

Delta R.T. 0.00 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

Instrument :

BNA_M

ClientSampleId :

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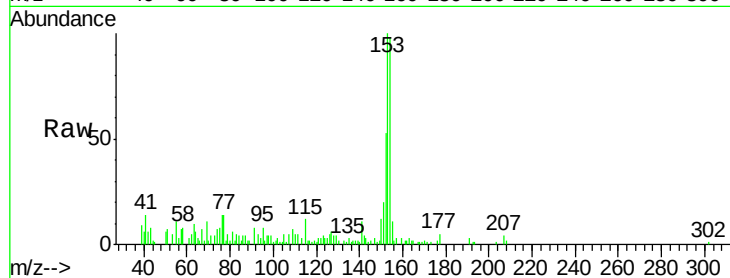
Tot Ion:153 Resp: 51953

Ion Ratio Lower Upper

153 100

152 52.6 37.6 56.4

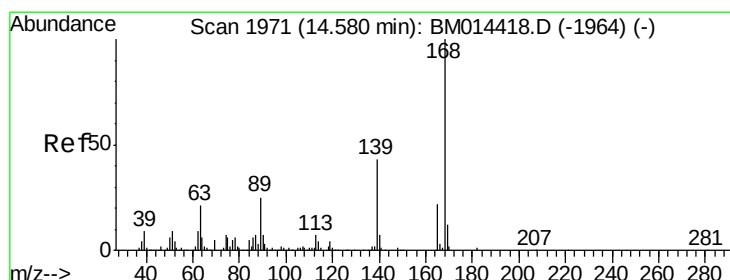
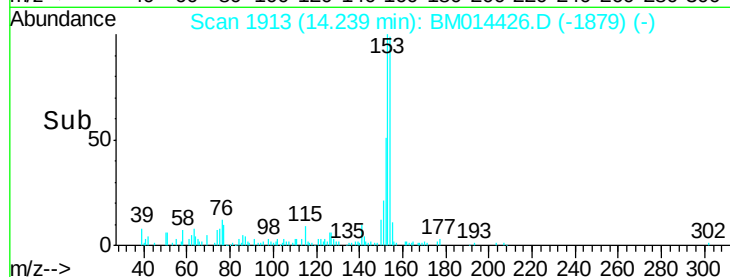
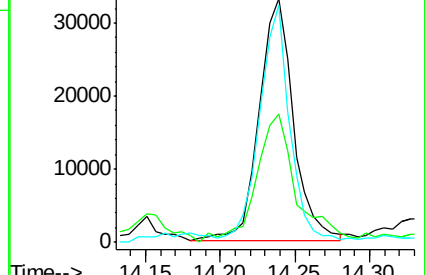
154 97.6 70.4 105.6



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: 1.301 ng/ul

RT: 14.58 min Scan# 1971

Delta R.T. 0.00 min

Lab File: BM014426.D

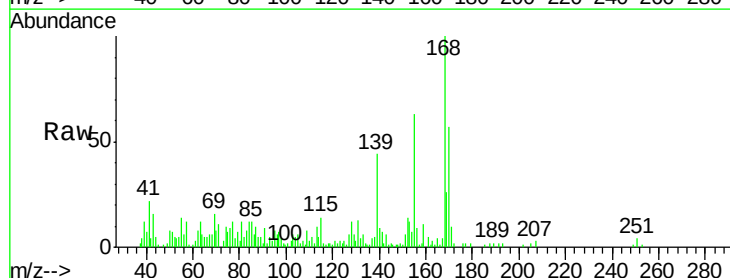
Acq: 01 Mar 2018 06:21

Tgt Ion:168 Resp: 54760

Ion Ratio Lower Upper

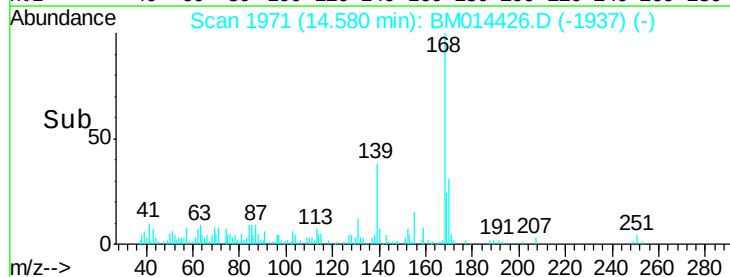
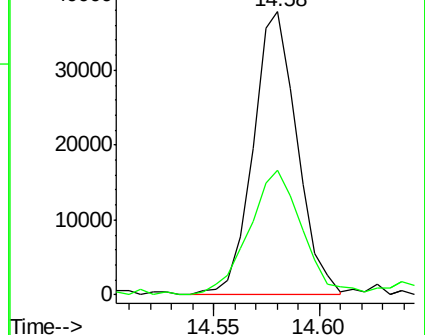
168 100

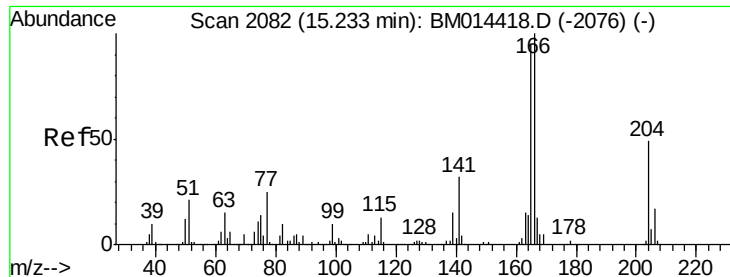
139 43.9 30.8 46.2



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 1.728 ng/ul

RT: 15.23 min Scan# 2082

Delta R.T. 0.00 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

Instrument :

BNA_M

ClientSampled :

BE5W7

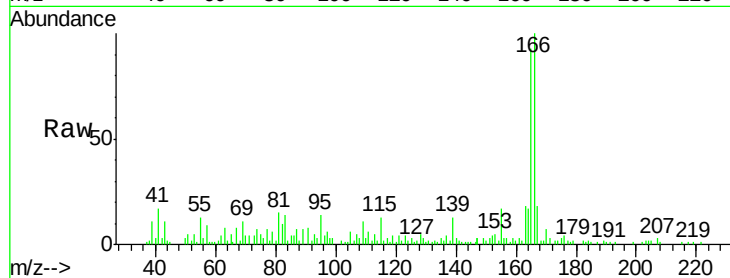
Tot Ion:166 Resp: 62768

Ion Ratio Lower Upper

166 100

165 93.3 77.9 116.9

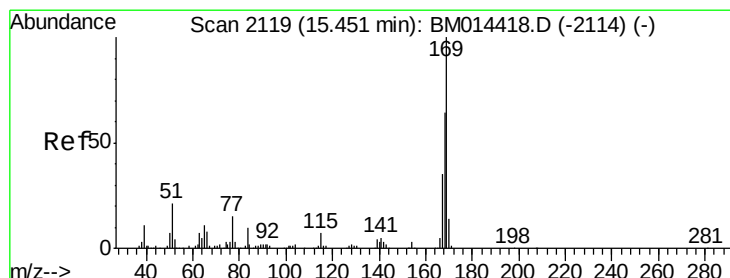
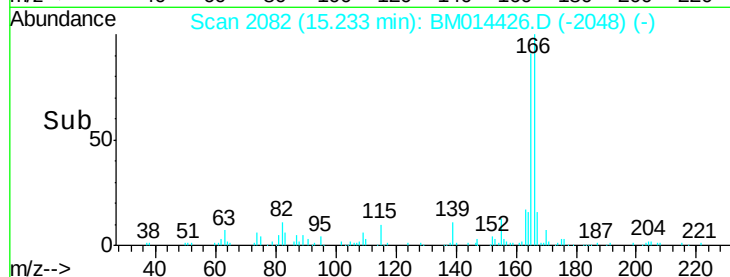
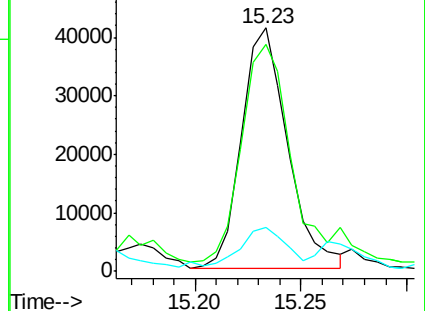
167 18.3 10.6 16.0#



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#64

N-Nitrosodiphenylamine

Concen: 1.012 ng/ul

RT: 15.46 min Scan# 2120

Delta R.T. 0.01 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

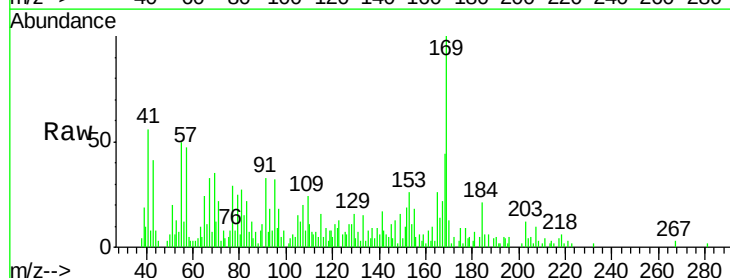
Tgt Ion:169 Resp: 26563

Ion Ratio Lower Upper

169 100

168 44.1 54.0 81.0#

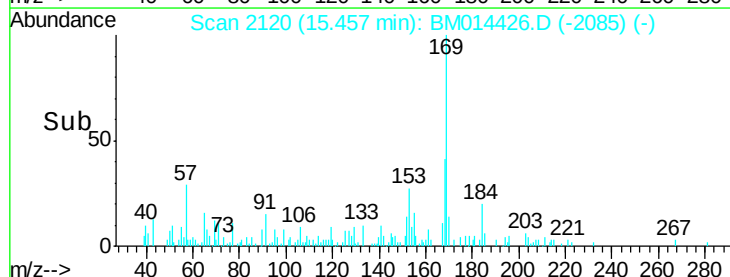
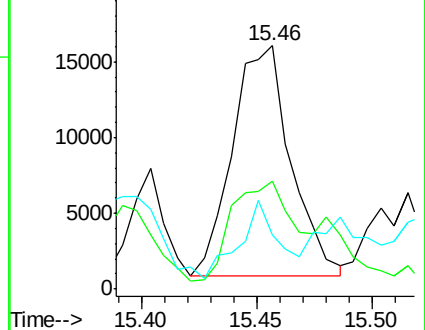
167 22.4 29.1 43.7#

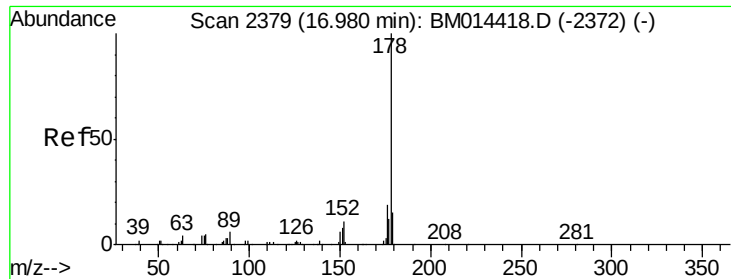


Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E





#69

Phenanthrene

Concen: 23.018 ng/ul

RT: 16.98 min Scan# 2379

Delta R.T. 0.00 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

Instrument :

BNA_M

ClientSampleId :

BE5W7

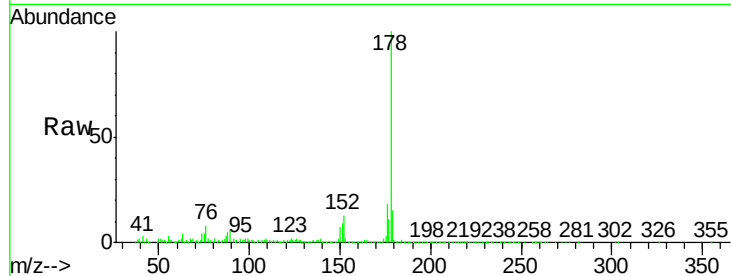
Tot Ion:178 Resp: 1210933

Ion Ratio Lower Upper

178 100

179 15.4 12.6 19.0

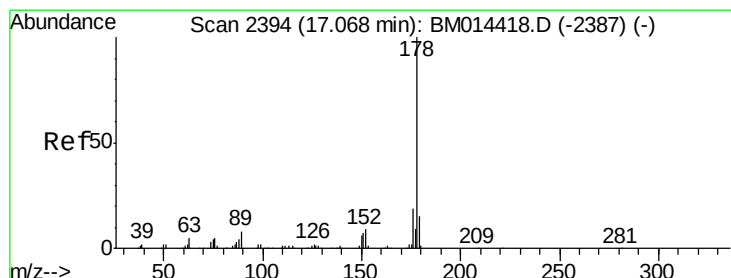
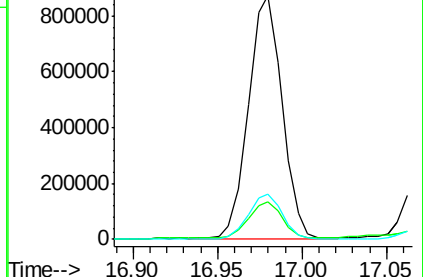
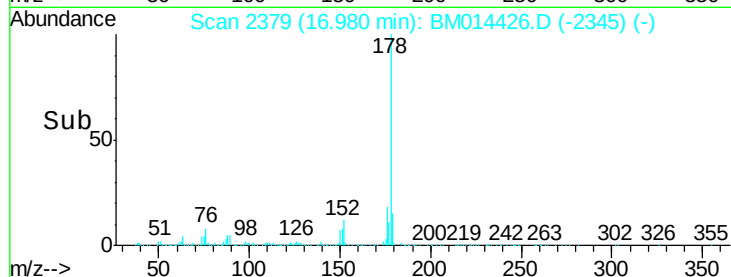
176 18.4 14.9 22.3



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#71

Anthracene

Concen: 5.334 ng/ul

RT: 17.07 min Scan# 2394

Delta R.T. 0.00 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

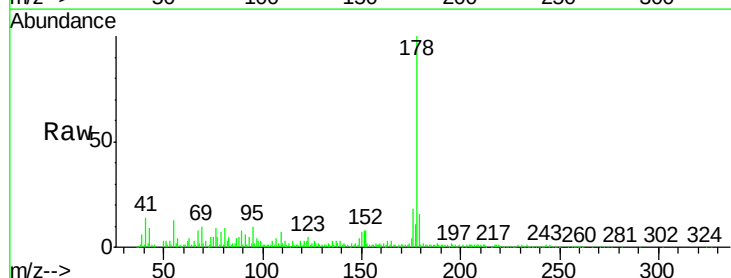
Tgt Ion:178 Resp: 282184

Ion Ratio Lower Upper

178 100

179 15.5 11.7 17.5

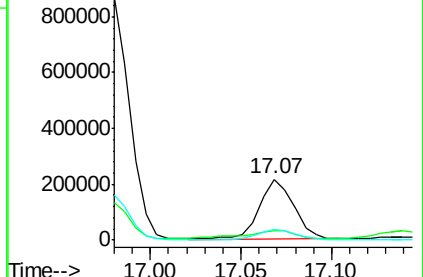
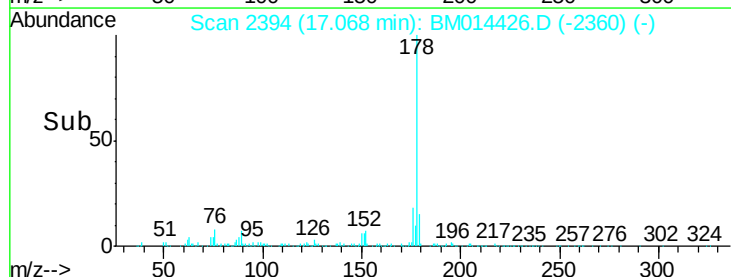
176 18.2 14.6 21.8

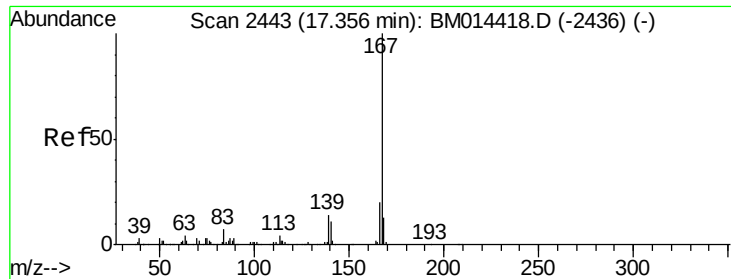


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#72

Carbazole

Concen: 3.260 ng/ul

RT: 17.36 min Scan# 2443

Delta R.T. 0.00 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

Instrument :

BNA_M

ClientSampled :

BE5W7

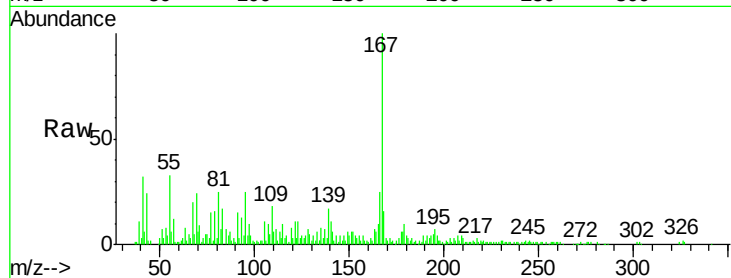
Tot Ion:167 Resp: 145021

Ion Ratio Lower Upper

167 100

166 25.4 17.1 25.7

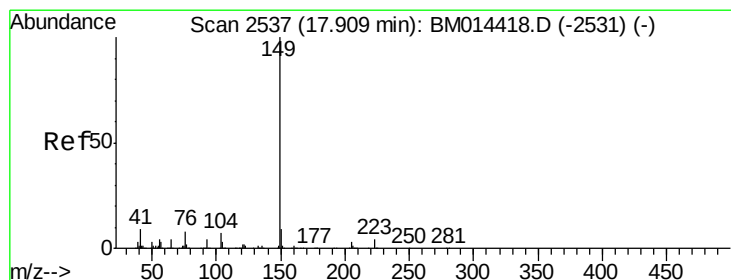
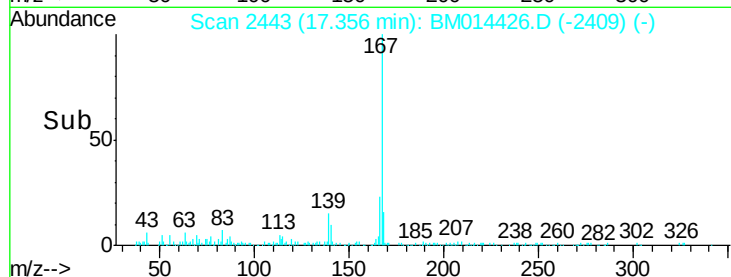
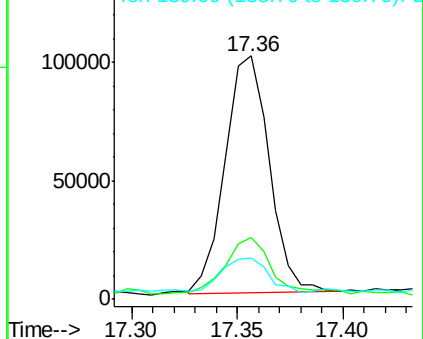
139 16.9 10.0 15.0#



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#73

Di-n-butylphthalate

Concen: 2.955 ng/ul

RT: 17.92 min Scan# 2538

Delta R.T. 0.01 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

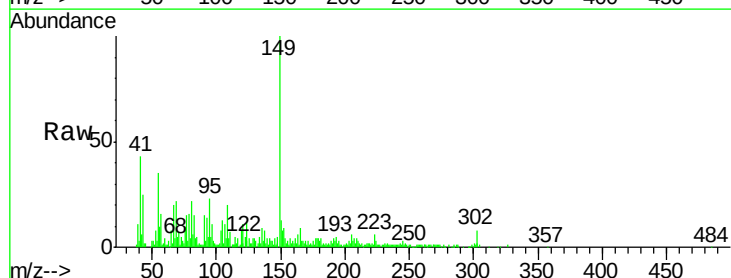
Tgt Ion:149 Resp: 169598

Ion Ratio Lower Upper

149 100

150 13.3 7.1 10.7#

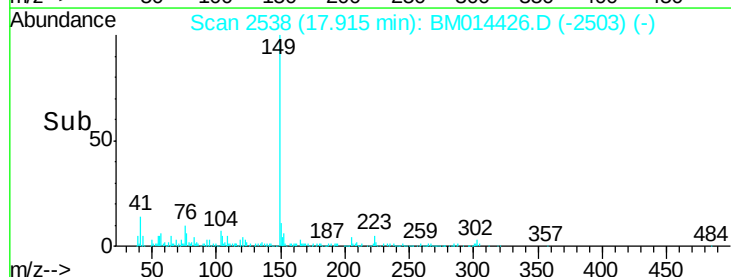
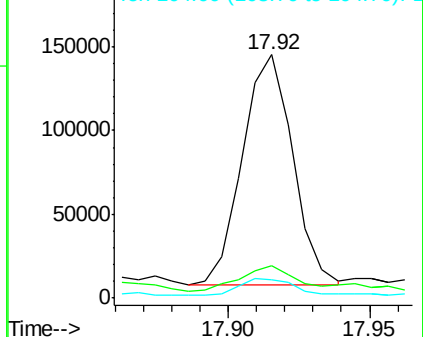
104 7.8 5.6 8.4

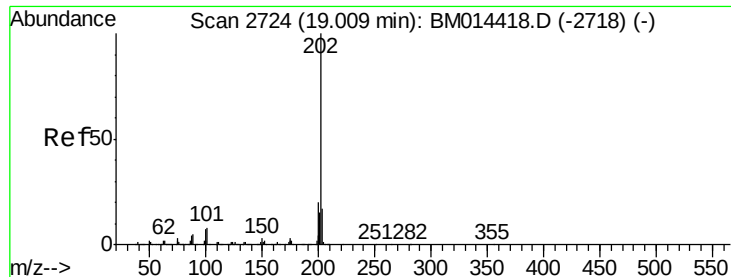


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E





#74

Fluoranthene

Concen: 38.078 ng/ul

RT: 19.02 min Scan# 2725

Delta R.T. 0.01 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

Instrument :

BNA_M

ClientSampleId :

BE5W7

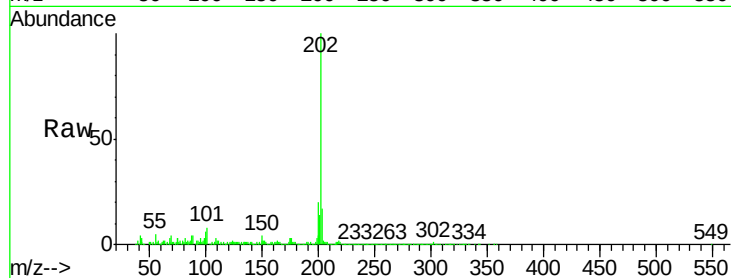
Tot Ion:202 Resp: 2393318

Ion Ratio Lower Upper

202 100

101 7.7 4.6 7.0#

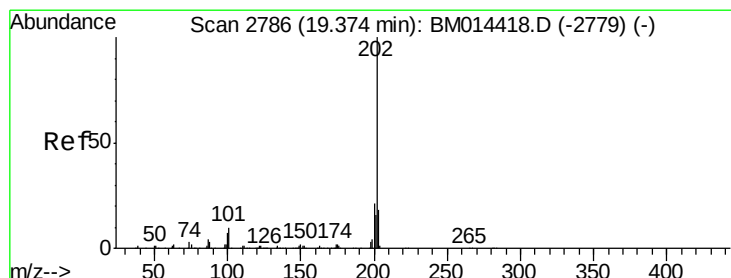
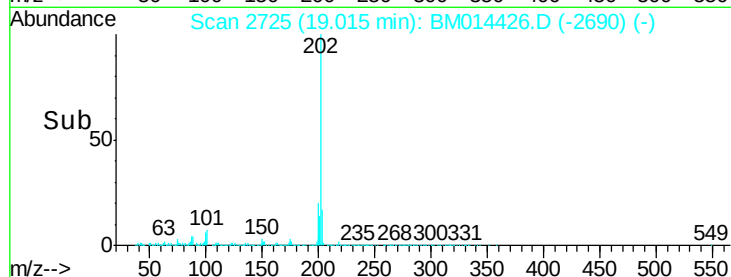
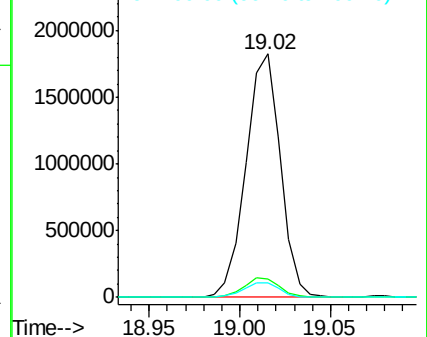
100 6.0 3.4 5.2#



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#77

Pyrene

Concen: 36.687 ng/ul

RT: 19.38 min Scan# 2787

Delta R.T. 0.01 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

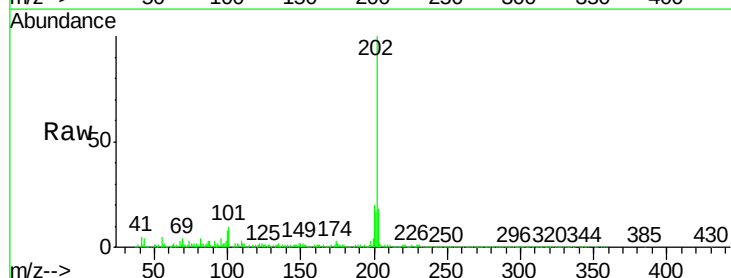
Tgt Ion:202 Resp: 2193401

Ion Ratio Lower Upper

202 100

101 9.7 5.1 7.7#

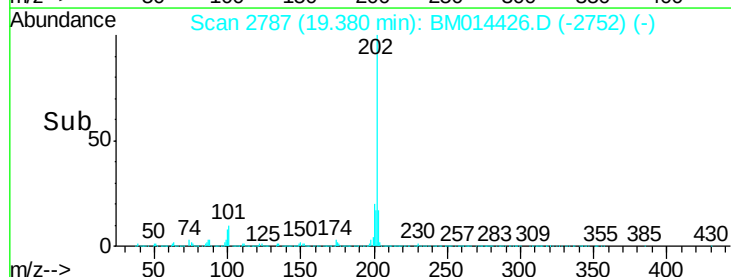
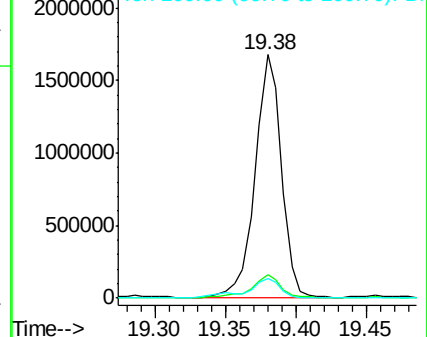
100 8.1 4.9 7.3#

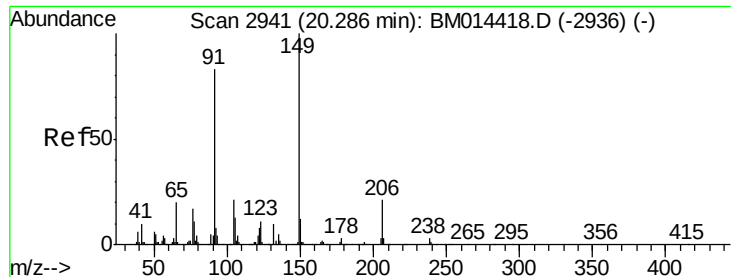


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

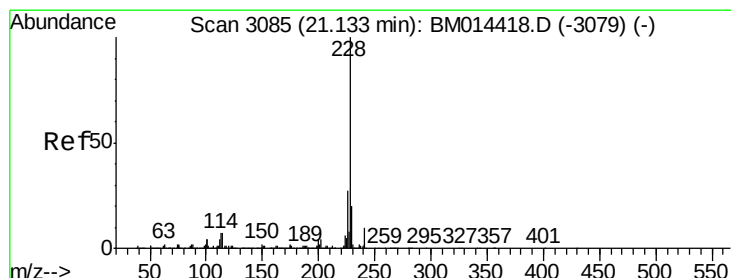
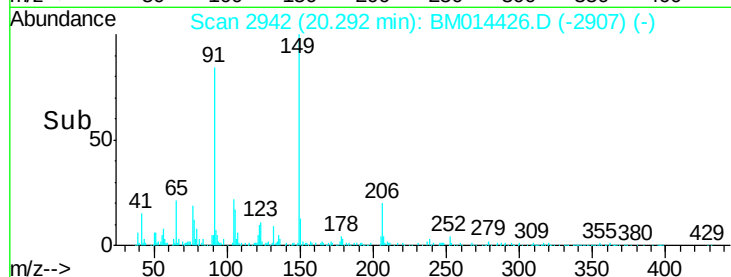
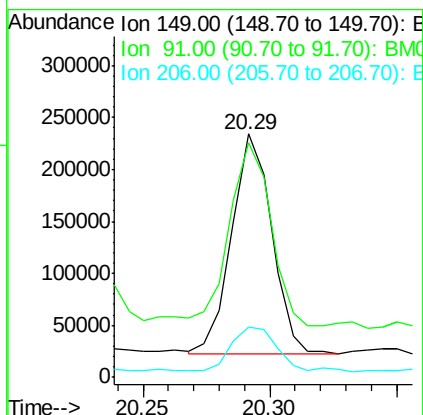
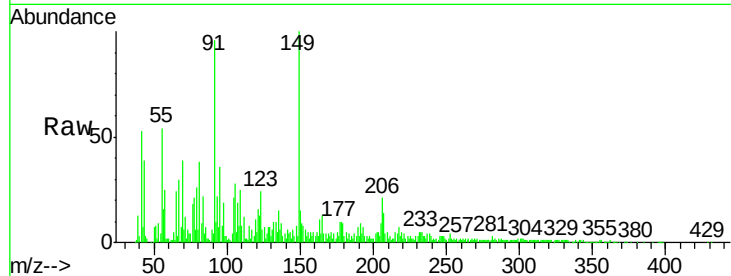




#78
Butylbenzylphthalate
Concen: 9.501 ng/ul
RT: 20.29 min Scan# 2942
Delta R.T. 0.01 min
Lab File: BM014426.D
Acq: 01 Mar 2018 06:21

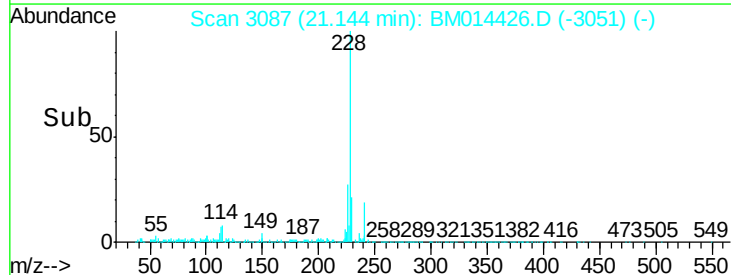
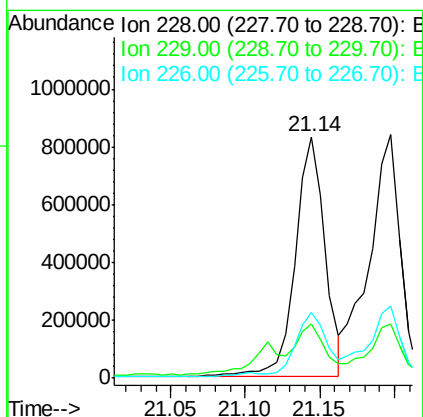
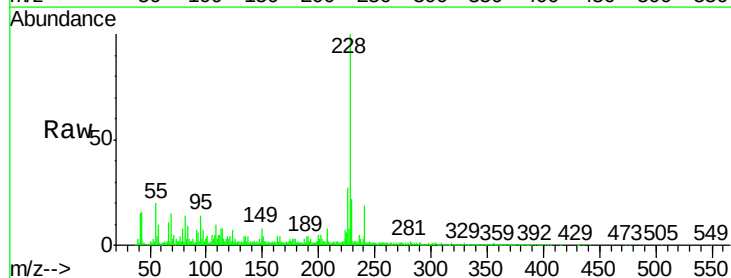
Instrument :
BNA_M
ClientSampleId :
BE5W7

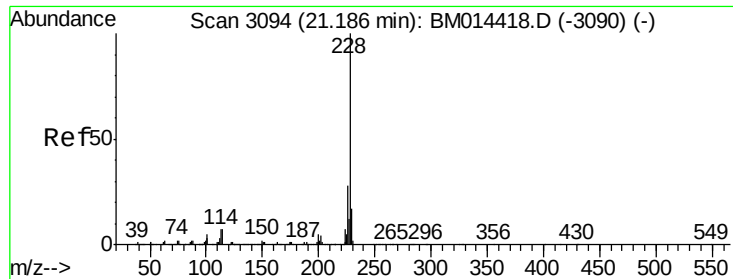
Tot Ion:149 Resp: 234870
Ion Ratio Lower Upper
149 100
91 96.3 62.7 94.1#
206 20.7 20.8 31.2#



#80
Benzo(a)anthracene
Concen: 20.393 ng/ul
RT: 21.14 min Scan# 3087
Delta R.T. 0.01 min
Lab File: BM014426.D
Acq: 01 Mar 2018 06:21

Tgt Ion:228 Resp: 1144996
Ion Ratio Lower Upper
228 100
229 22.5 15.4 23.0
226 27.4 21.4 32.0





#82

Chrysene

Concen: 22.694 ng/ul

RT: 21.20 min Scan# 3096

Delta R.T. 0.01 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

Instrument :

BNA_M

ClientSampleId :

BE5W7

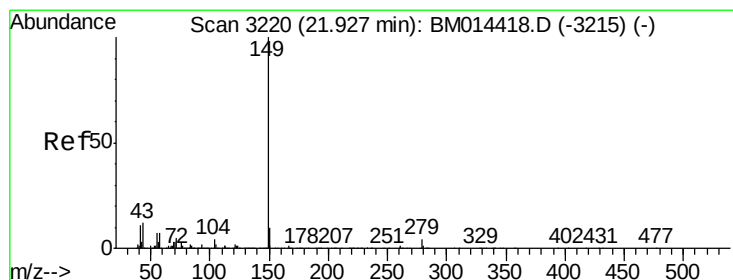
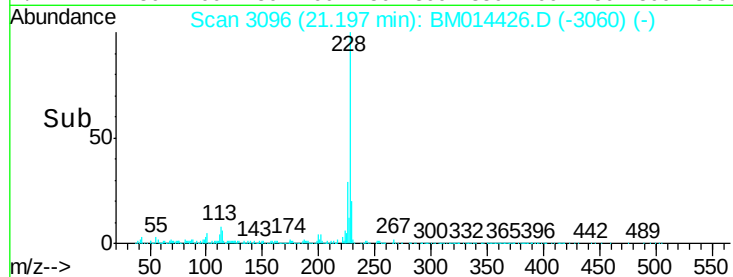
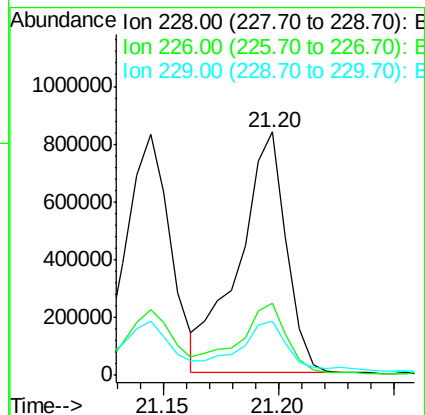
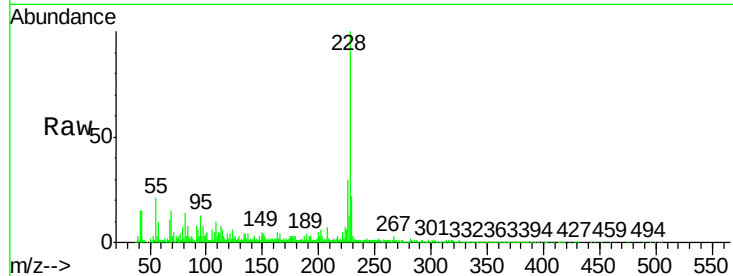
Tot Ion:228 Resp: 1188670

Ion Ratio Lower Upper

228 100

226 29.7 23.4 35.2

229 22.0 15.5 23.3



#84

Di-n-octyl phthalate

Concen: 3.022 ng/ul

RT: 21.94 min Scan# 3223

Delta R.T. 0.02 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

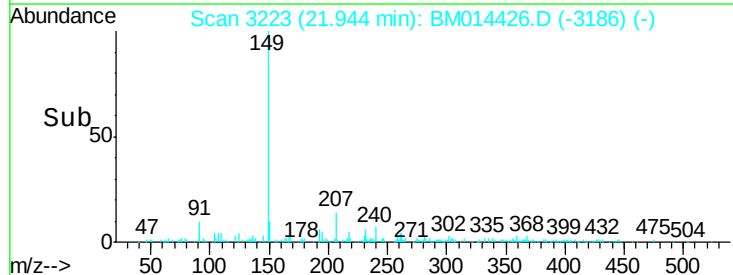
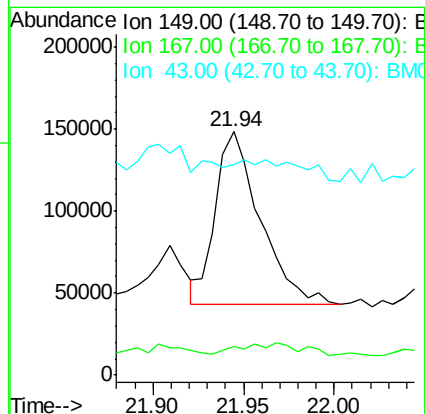
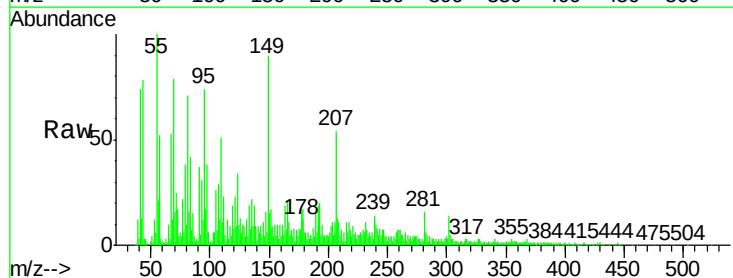
Tgt Ion:149 Resp: 181806

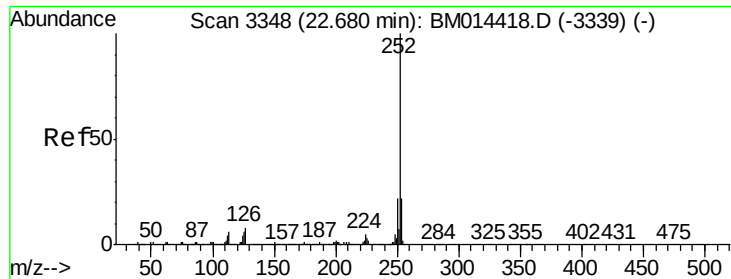
Ion Ratio Lower Upper

149 100

167 11.9 1.3 1.9#

43 86.5 7.3 10.9#





#85

Benzo(b)fluoranthene

Concen: 29.732 ng/ul

RT: 22.70 min Scan# 3352

Delta R.T. 0.02 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

Instrument :

BNA_M

ClientSampleId :

BE5W7

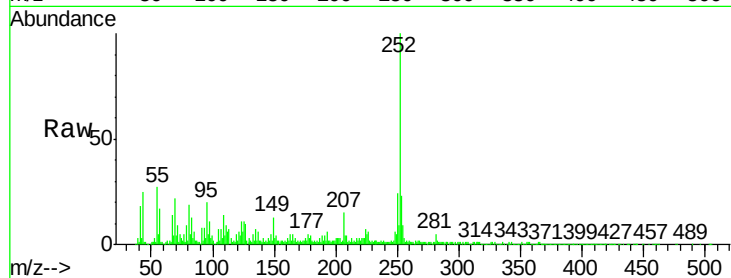
Tot Ion:252 Resp: 1395740

Ion Ratio Lower Upper

252 100

253 22.8 17.9 26.9

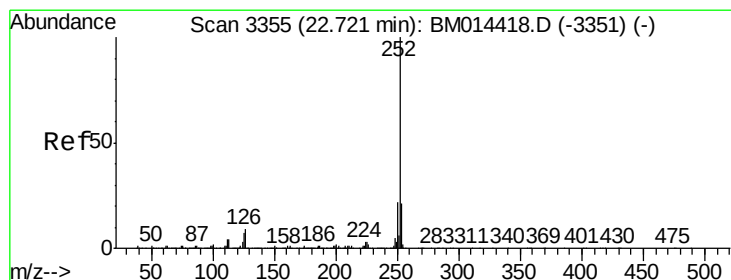
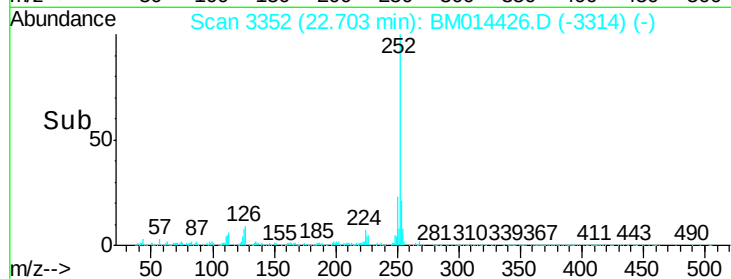
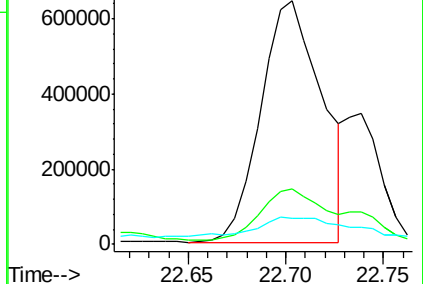
125 10.9 3.6 5.4#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#86

Benzo(k)fluoranthene

Concen: 31.272 ng/ul

RT: 22.70 min Scan# 3352

Delta R.T. -0.02 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

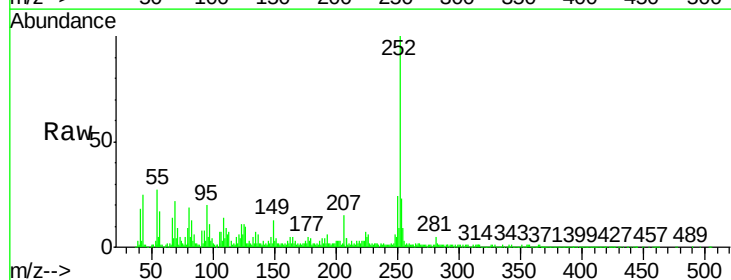
Tgt Ion:252 Resp: 1395740

Ion Ratio Lower Upper

252 100

253 22.8 17.1 25.7

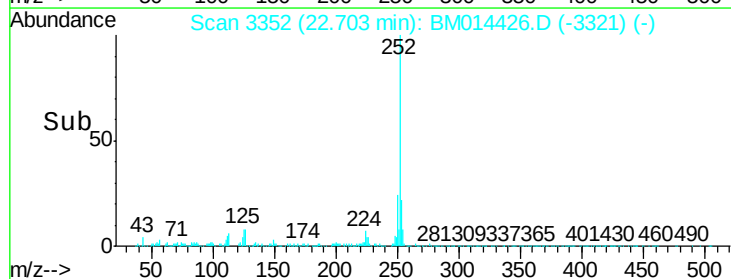
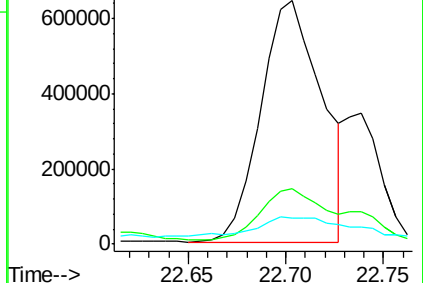
125 10.9 3.4 5.2#

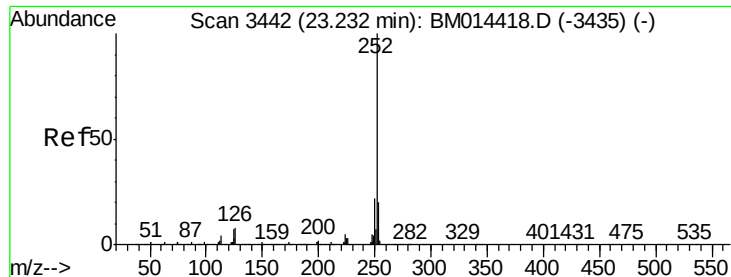


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#88

Benzo(a)pyrene

Concen: 19.991 ng/ul

RT: 23.26 min Scan# 3446

Delta R.T. 0.02 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

Instrument :

BNA_M

ClientSampleId :

BE5W7

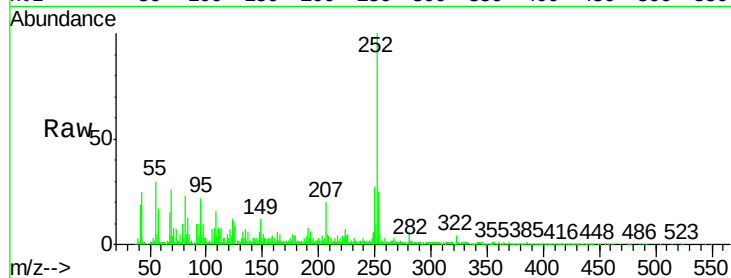
Tot Ion:252 Resp: 838581

Ion Ratio Lower Upper

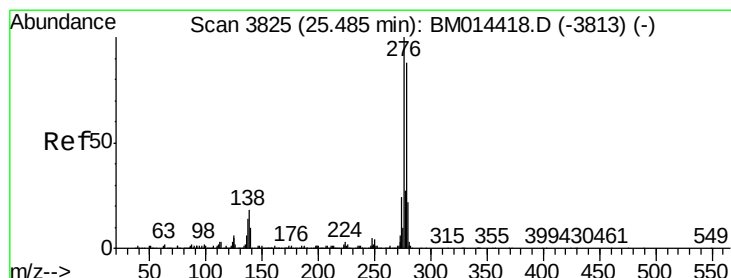
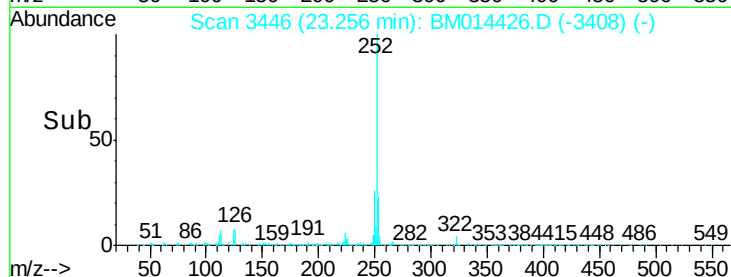
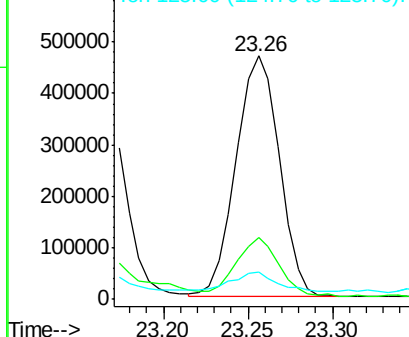
252 100

253 25.4 18.2 27.2

125 11.0 4.0 6.0#



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#89

Indeno(1,2,3-cd)pyrene

Concen: 14.868 ng/ul

RT: 25.53 min Scan# 3832

Delta R.T. 0.04 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

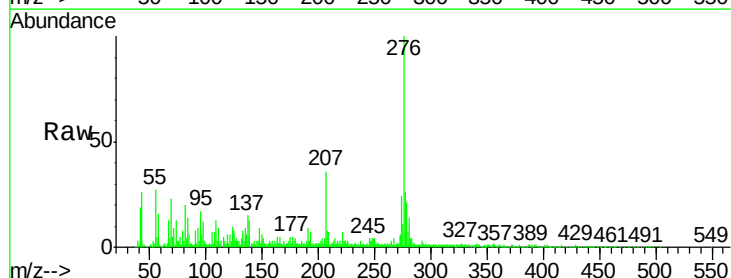
Tgt Ion:276 Resp: 605213

Ion Ratio Lower Upper

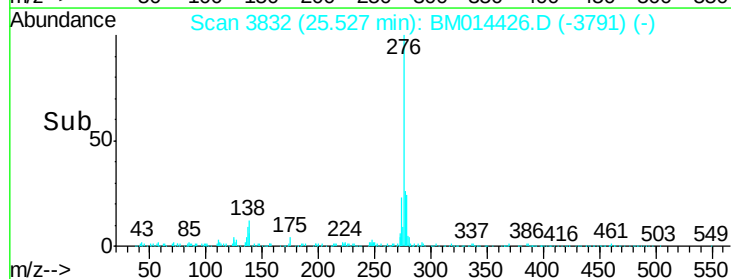
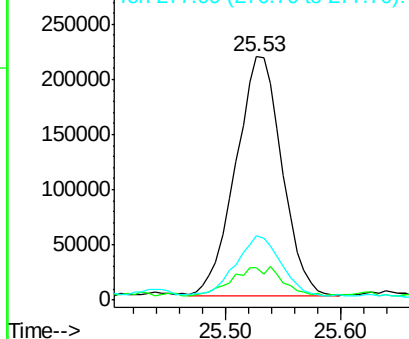
276 100

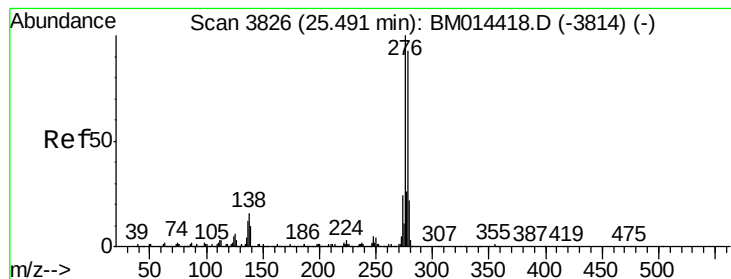
138 13.3 9.3 13.9

277 26.4 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: 4.816 ng/ul

RT: 25.52 min Scan# 3831

Delta R.T. 0.03 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

Instrument :

BNA_M

ClientSampleId :

BE5W7

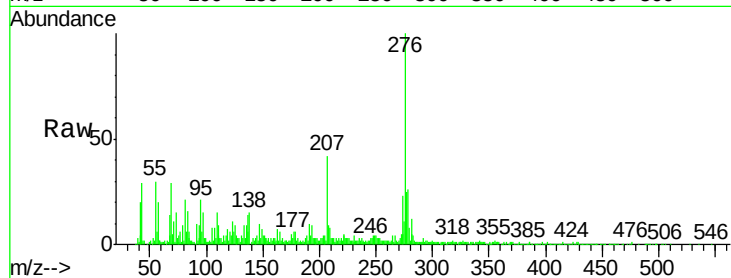
Tot Ion:278 Resp: 162908

Ion Ratio Lower Upper

278 100

139 0.0 5.8 8.8#

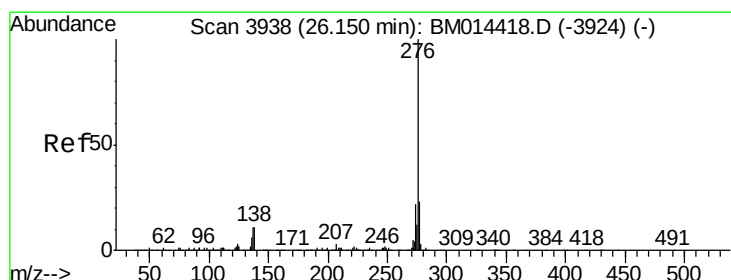
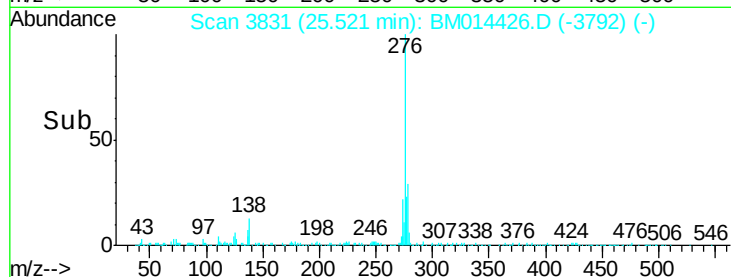
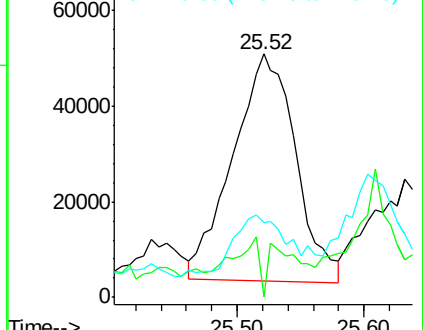
279 30.4 18.6 27.8#



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(g,h,i)perylene

Concen: 14.381 ng/ul

RT: 26.20 min Scan# 3947

Delta R.T. 0.05 min

Lab File: BM014426.D

Acq: 01 Mar 2018 06:21

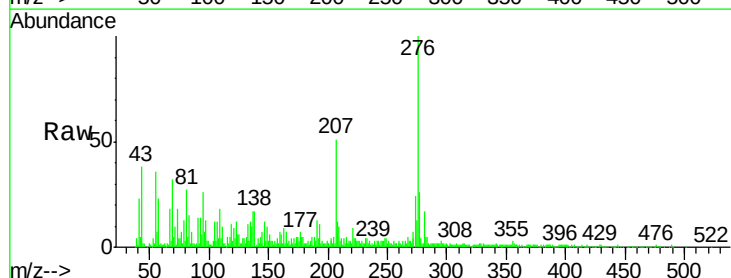
Tgt Ion:276 Resp: 474227

Ion Ratio Lower Upper

276 100

138 17.3 8.5 12.7#

277 26.2 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

