

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF032018\
 Data File : BF103835.D
 Acq On : 21 Mar 2018 6:55
 Operator : JU/SJ
 Sample : J1982-01DL2 20X
 Misc :
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 21 08:13:36 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF031518.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Mar 15 18:31:53 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	171994	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	675904	20.00	ng	0.00
38) Acenaphthene-d10	10.01	164	298312	20.00	ng	0.00
63) Phenanthrene-d10	11.50	188	469187	20.00	ng	0.00
75) Chrysene-d12	14.16	240	332576	20.00	ng	0.00
86) Perylene-d12	15.70	264	288556	20.00	ng	0.02

System Monitoring Compounds

5) 2-Fluorophenol	5.58	112	51274	4.53	ng	0.00
7) Phenol-d6	6.57	99	65036	4.70	ng	-0.01
23) Nitrobenzene-d5	7.53	82	35826	3.70	ng	0.00
41) 2,4,6-Tribromophenol	10.80	330	11093	4.32	ng	0.00
44) 2-Fluorobiphenyl	9.32	172	71031	3.80	ng	0.00
78) Terphenyl-d14	13.09	244	52965	3.70	ng	0.00

Target Compounds

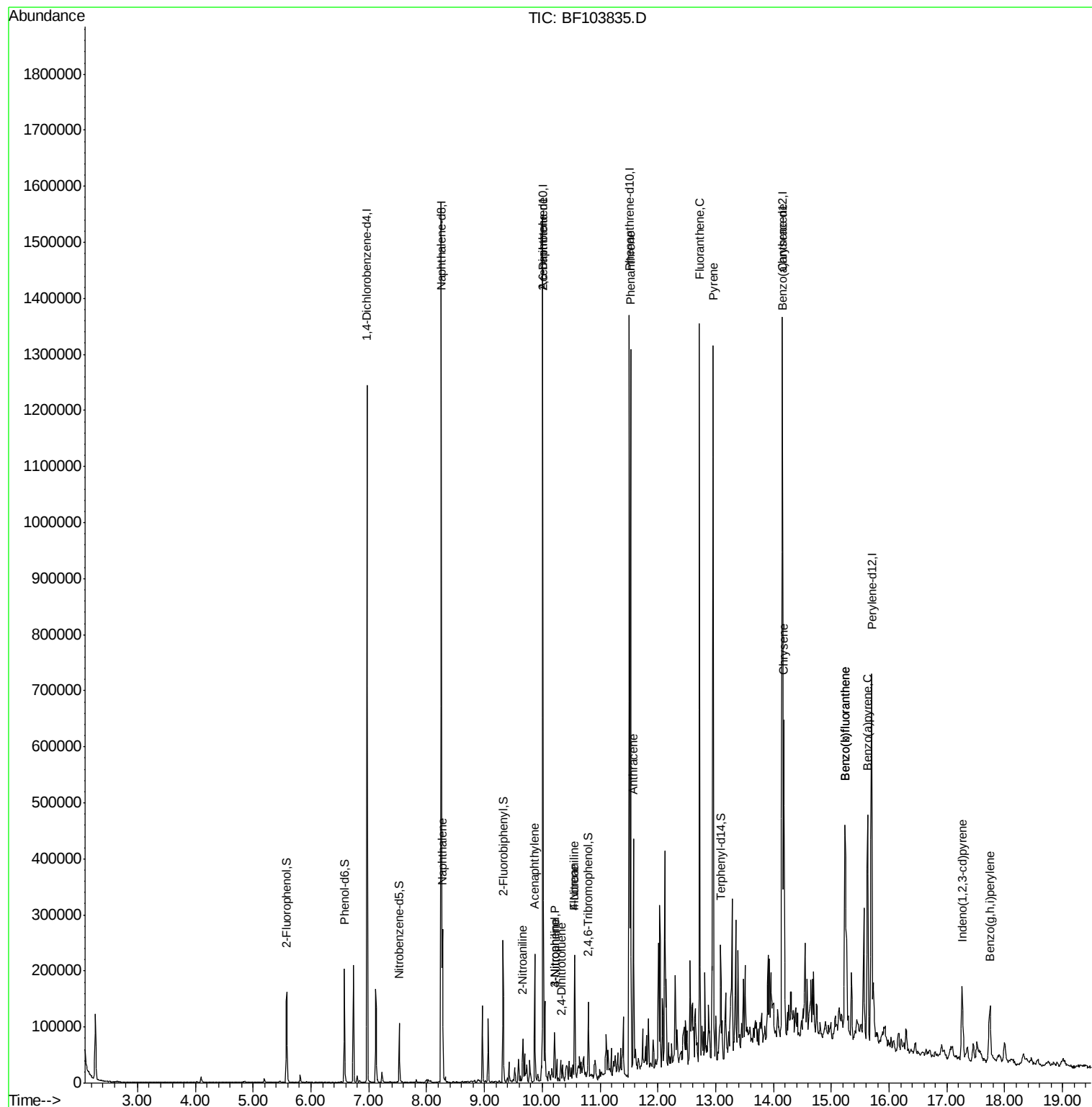
						Qvalue
31) Naphthalene	8.27	128	105750	3.097	ng	98
47) 2-Nitroaniline	9.67	65	279	6.861	ng	# 2
48) Acenaphthylene	9.87	152	92698	3.026	ng	98
50) 2,6-Dinitrotoluene	10.01	165	38951	12.096	ng	# 26
52) 3-Nitroaniline	10.22	138	290	3.865	ng	# 2
55) 4-Nitrophenol	10.22	139	11147	7.479	ng	# 10
56) 2,4-Dinitrotoluene	10.32	165	1316	6.419	ng	# 40
57) Fluorene	10.56	166	63556	3.152	ng	99
61) 4-Nitroaniline	10.56	138	708	3.878	ng	# 19
70) Phenanthrene	11.53	178	455228	17.737	ng	98
71) Anthracene	11.58	178	143877	5.519	ng	98
74) Fluoranthene	12.72	202	464949	17.584	ng	100
77) Pvrene	12.96	202	498546	20.412	ng	98
80) Benzo(a)anthracene	14.14	228	245029	11.639	ng	94
82) Chrysene	14.18	228	205304	10.230	ng	97
85) Indeno(1,2,3-cd)pyrene	17.26	276	88478	5.049	ng	94
87) Benzo(b)fluoranthene	15.24	252	295526	16.211	ng	97
88) Benzo(k)fluoranthene	15.24	252	295526	16.864	ng	99
89) Benzo(a)pvrene	15.63	252	181551	10.980	ng	97
91) Benzo(a,h,i)perylene	17.74	276	84066	6.035	ng	97

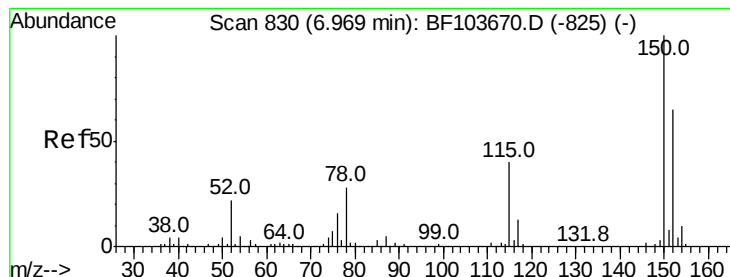
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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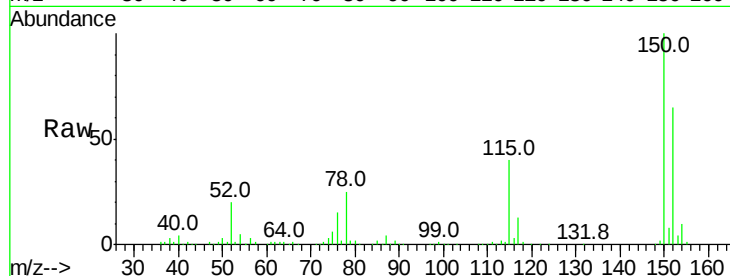


#1

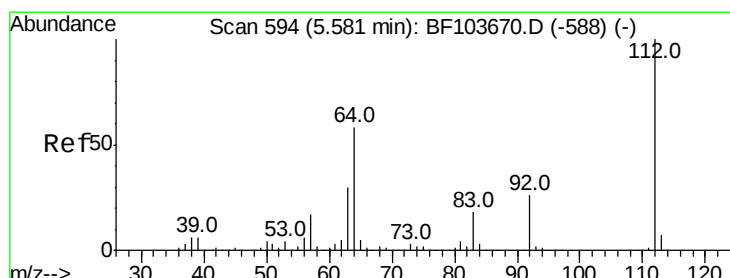
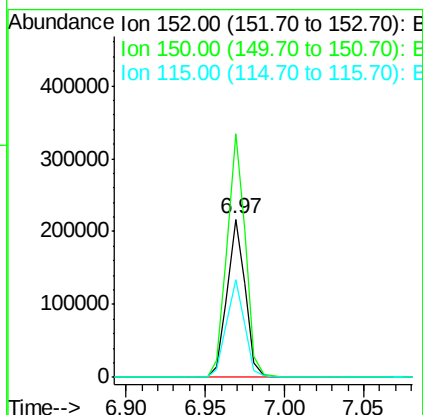
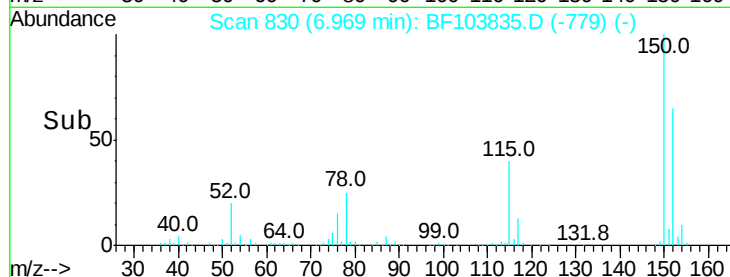
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 830
Delta R.T. 0.00 min
Lab File: BF103835.D
Acq: 21 Mar 2018 6:55

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 171994
Ion Ratio Lower Upper
152 100
150 154.1 124.6 186.8
115 61.7 50.1 75.1



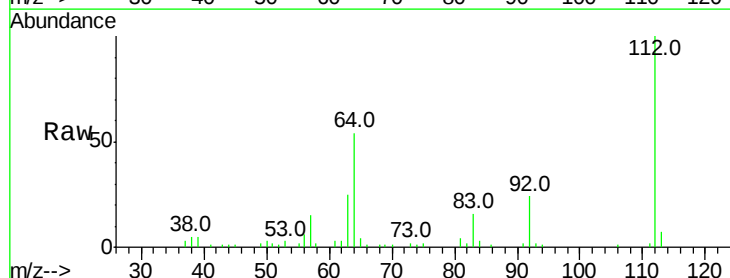
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



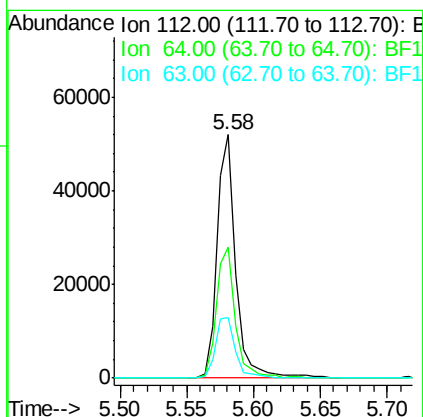
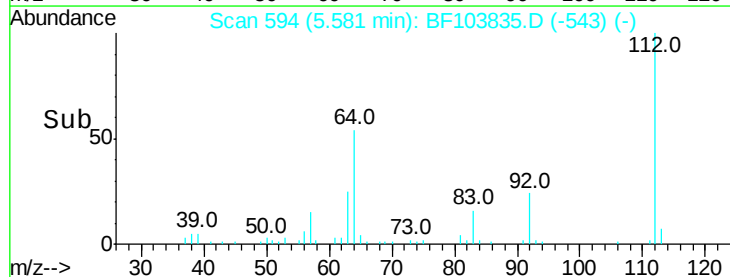
#5

2-Fluorophenol
Concen: 4.534 ng
RT: 5.58 min Scan# 594
Delta R.T. 0.00 min
Lab File: BF103835.D
Acq: 21 Mar 2018 6:55

Tgt Ion:112 Resp: 51274
Ion Ratio Lower Upper
112 100
64 54.0 47.9 71.9
63 24.7 23.7 35.5



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF1
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 4.701 ng

RT: 6.57 min Scan# 763

Delta R.T. -0.01 min

Lab File: BF103835.D

Acq: 21 Mar 2018 6:55

Instrument :

BNA_F

ClientSampled :

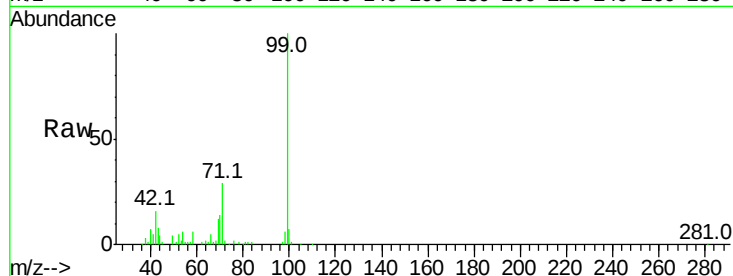
Tot Ion: 99 Resp: 65036

Ion Ratio Lower Upper

99 100

42 16.0 14.5 21.7

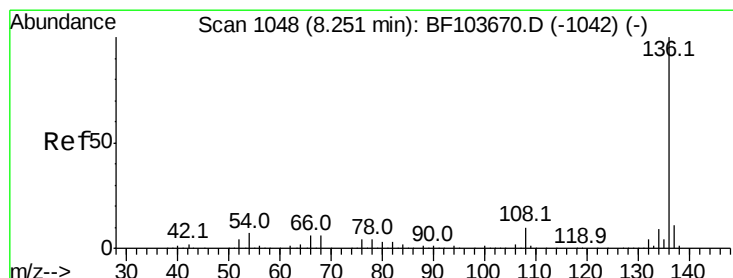
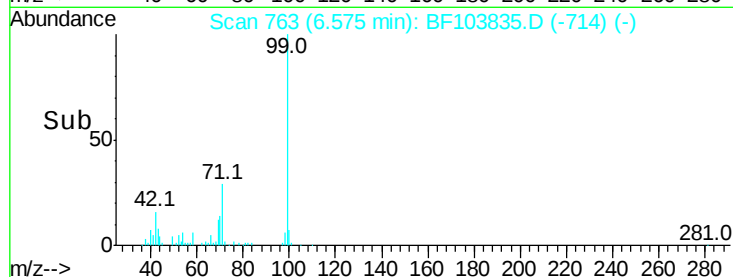
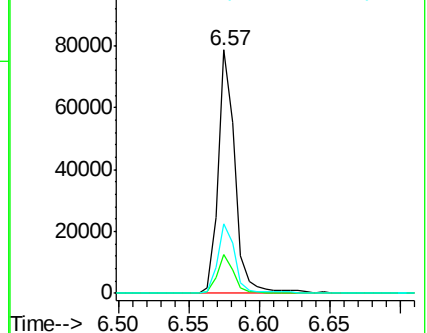
71 28.7 25.4 38.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.25 min Scan# 1048

Delta R.T. 0.00 min

Lab File: BF103835.D

Acq: 21 Mar 2018 6:55

Tgt Ion: 136 Resp: 675904

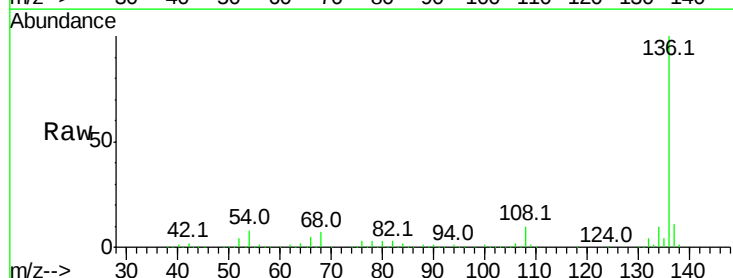
Ion Ratio Lower Upper

136 100

137 11.4 8.9 13.3

54 7.5 6.6 9.8

68 6.9 5.0 7.4

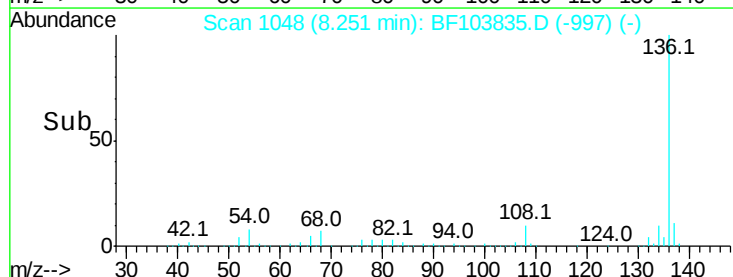
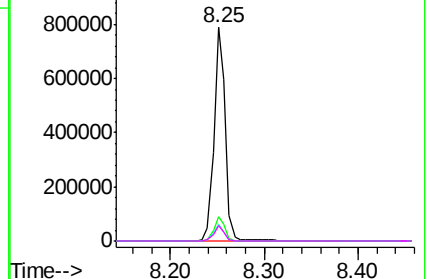


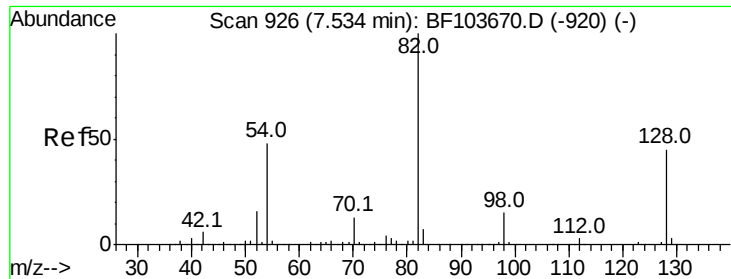
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1





#23

Nitrobenzene-d5

Concen: 3.696 ng

RT: 7.53 min Scan# 925

Delta R.T. -0.01 min

Lab File: BF103835.D

Acq: 21 Mar 2018 6:55

Instrument :

BNA_F

ClientSampled :

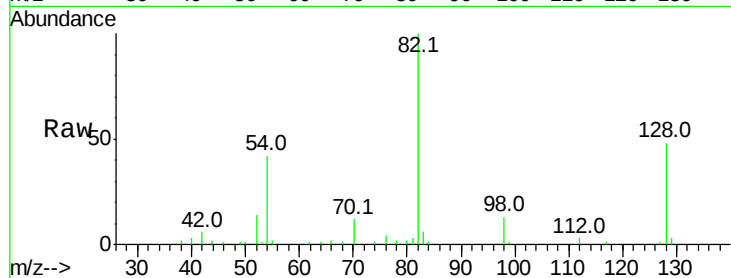
Tot Ion: 82 Resp: 35826

Ion Ratio Lower Upper

82 100

128 47.6 36.1 54.1

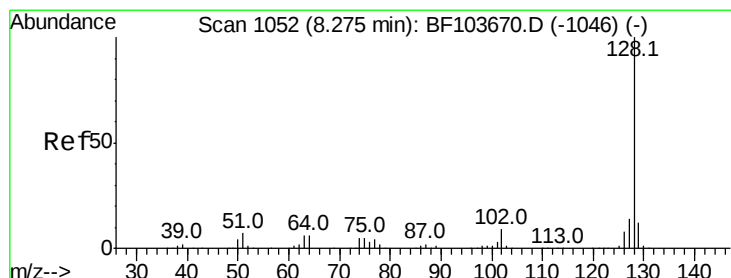
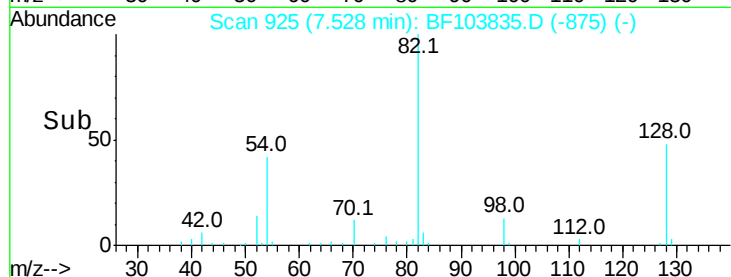
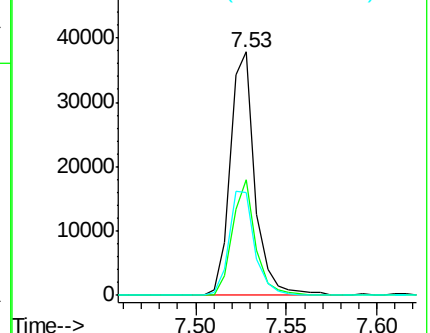
54 42.0 41.4 62.2



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): BF1

Ion 54.00 (53.70 to 54.70): BF1



#31

Naphthalene

Concen: 3.097 ng

RT: 8.27 min Scan# 1052

Delta R.T. 0.00 min

Lab File: BF103835.D

Acq: 21 Mar 2018 6:55

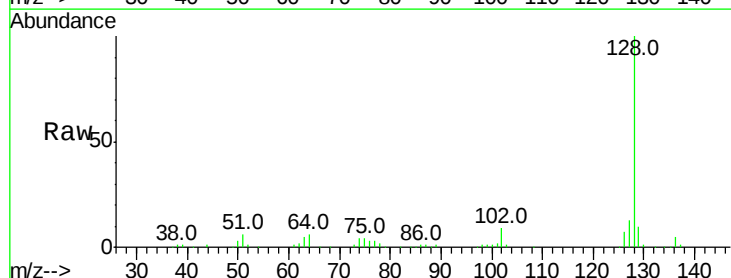
Tgt Ion: 128 Resp: 105750

Ion Ratio Lower Upper

128 100

129 10.4 8.8 13.2

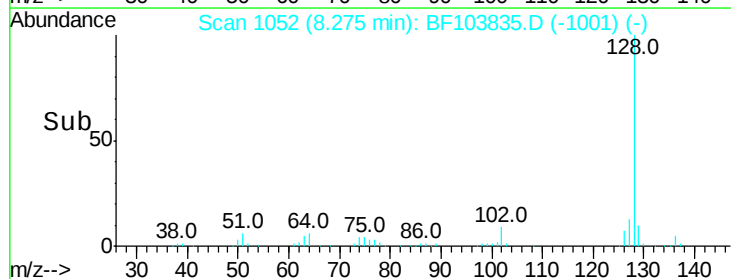
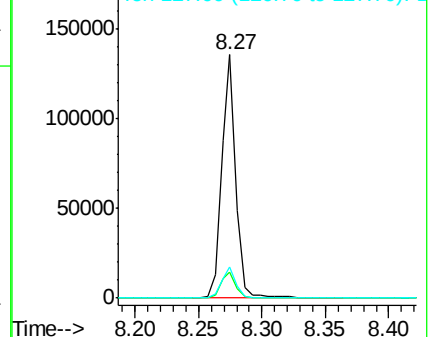
127 12.5 10.9 16.3

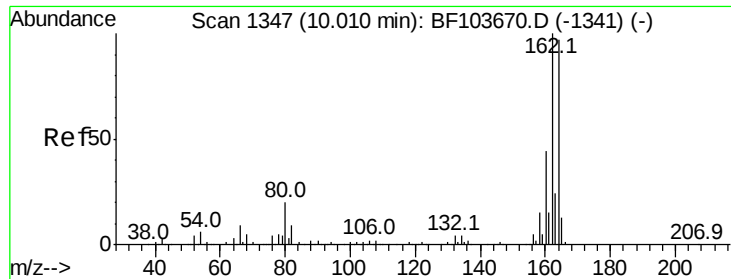


Abundance Ion 128.00 (127.70 to 128.70): BF1

Ion 129.00 (128.70 to 129.70): BF1

Ion 127.00 (126.70 to 127.70): BF1

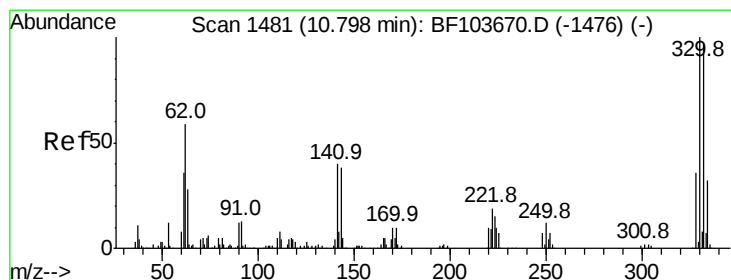
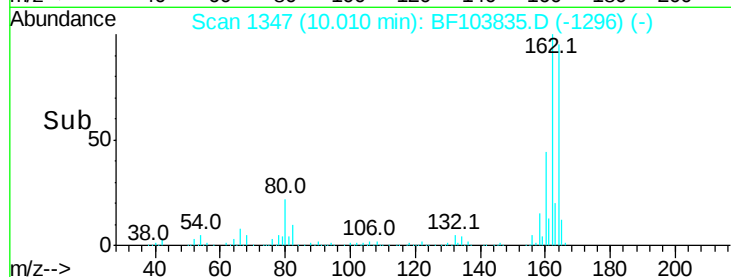
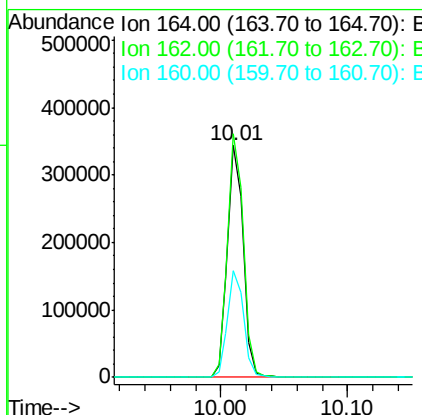
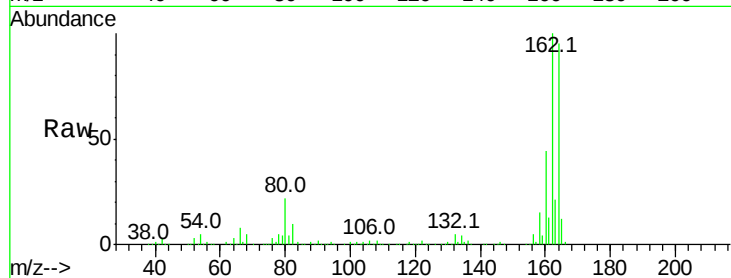




#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 10.01 min Scan# 1347
Delta R.T. 0.00 min
Lab File: BF103835.D
Acq: 21 Mar 2018 6:55

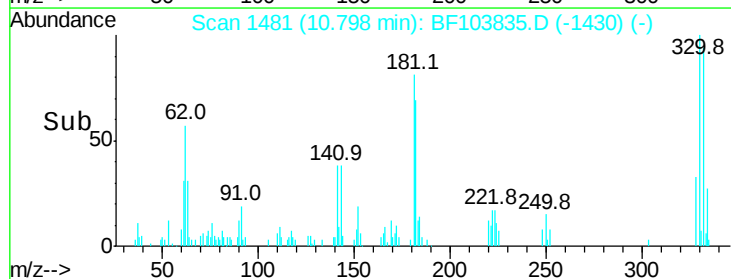
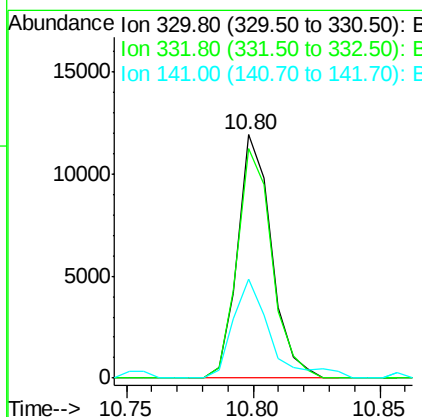
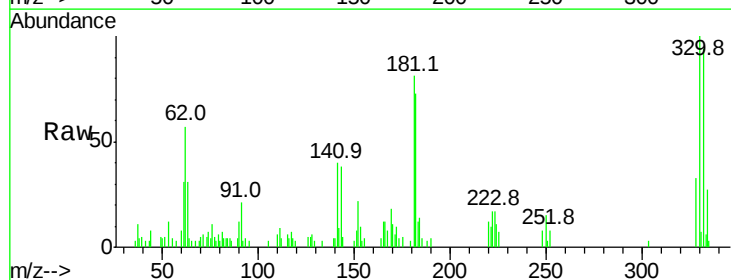
Instrument :
BNA_F
ClientSampleId :

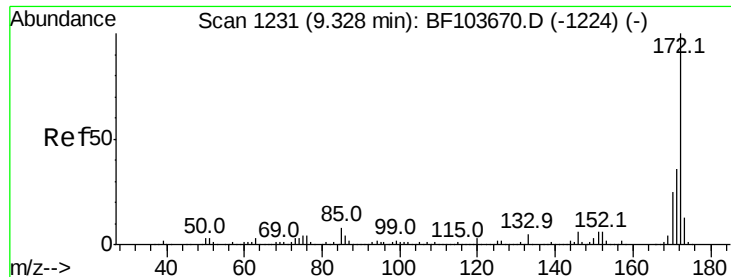
Tot Ion:164 Resp: 298312
Ion Ratio Lower Upper
164 100
162 104.9 86.1 129.1
160 45.8 38.3 57.5



#41
2,4,6-Tribromophenol
Concen: 4.325 ng
RT: 10.80 min Scan# 1481
Delta R.T. 0.00 min
Lab File: BF103835.D
Acq: 21 Mar 2018 6:55

Tgt Ion:330 Resp: 11093
Ion Ratio Lower Upper
330 100
332 96.2 77.0 115.6
141 44.3 29.9 44.9

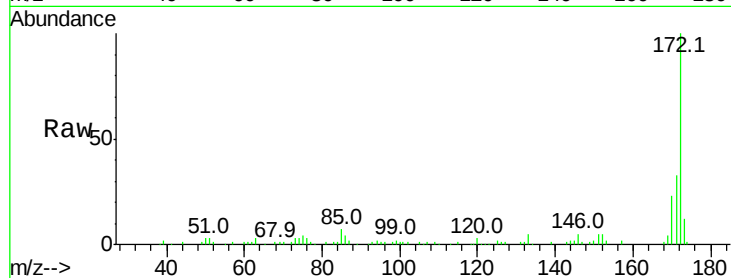




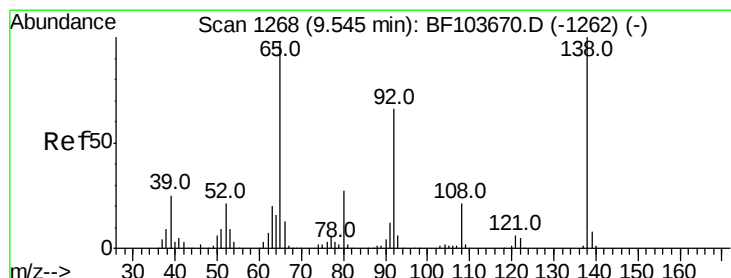
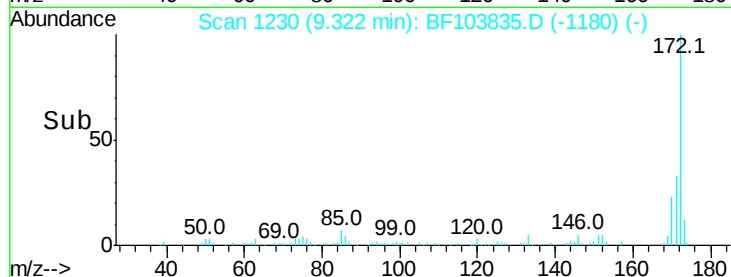
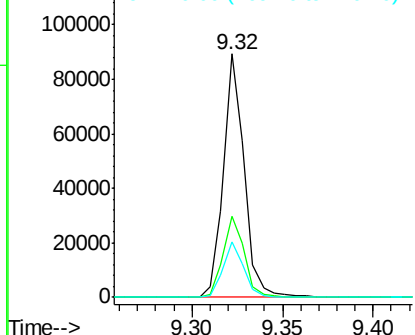
#44
 2-Fluorobiphenyl
 Concen: 3.798 ng
 RT: 9.32 min Scan# 1230
 Delta R.T. -0.01 min
 Lab File: BF103835.D
 Acq: 21 Mar 2018 6:55

Instrument :
 BNA_F
 ClientSampleID :

Tot Ion:172 Resp: 71031
 Ion Ratio Lower Upper
 172 100
 171 33.3 29.7 44.5
 170 23.0 19.6 29.4

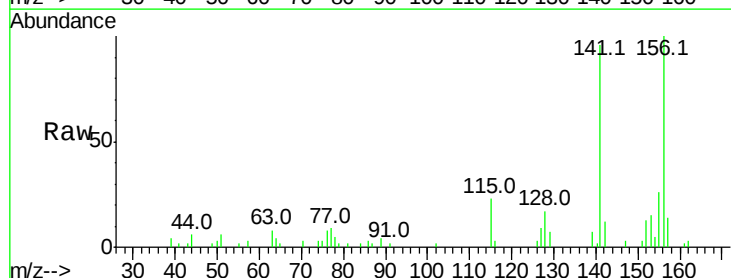


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

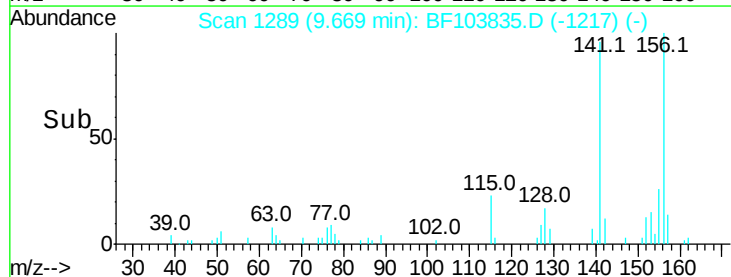
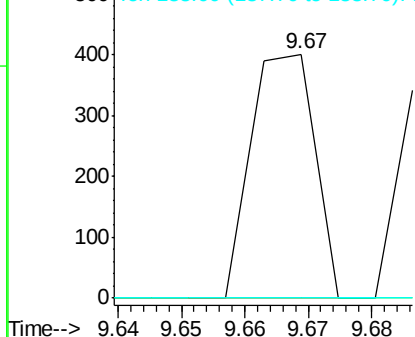


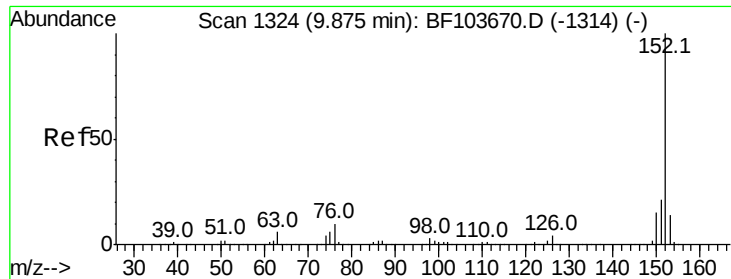
#47
 2-Nitroaniline
 Concen: 6.861 ng
 RT: 9.67 min Scan# 1289
 Delta R.T. 0.12 min
 Lab File: BF103835.D
 Acq: 21 Mar 2018 6:55

Tgt Ion: 65 Resp: 279
 Ion Ratio Lower Upper
 65 100
 92 0.0 55.8 83.6#
 138 0.0 91.2 136.8#



Abundance Ion 65.00 (64.70 to 65.70): BF1
 Ion 92.00 (91.70 to 92.70): BF1
 Ion 138.00 (137.70 to 138.70): E





#48

Acenaphthylene

Concen: 3.026 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.01 min

Lab File: BF103835.D

Acq: 21 Mar 2018 6:55

Instrument :

BNA_F

ClientSampleId :

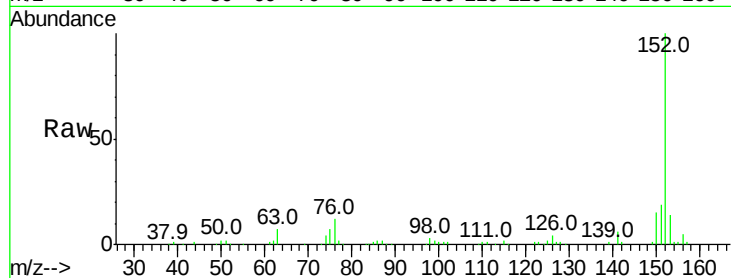
Tot Ion:152 Resp: 92698

Ion Ratio Lower Upper

152 100

151 19.5 16.3 24.5

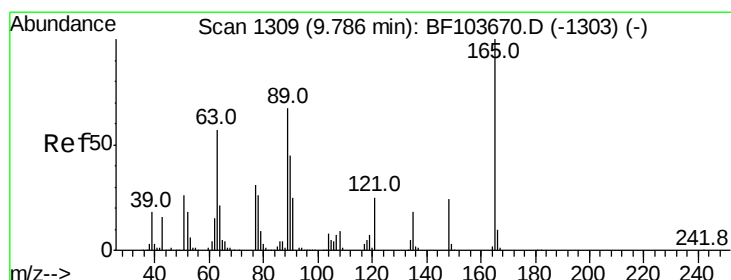
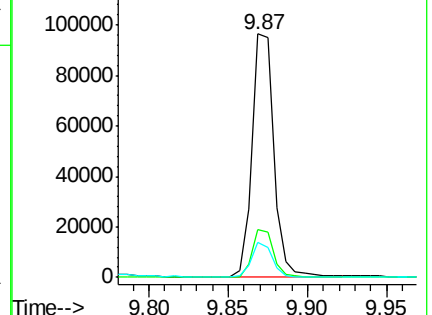
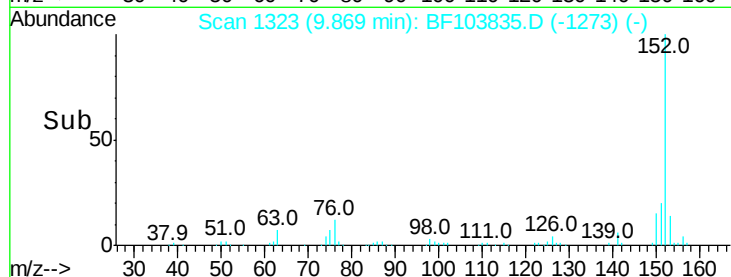
153 14.3 10.7 16.1



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



#50

2,6-Dinitrotoluene

Concen: 12.096 ng

RT: 10.01 min Scan# 1347

Delta R.T. 0.22 min

Lab File: BF103835.D

Acq: 21 Mar 2018 6:55

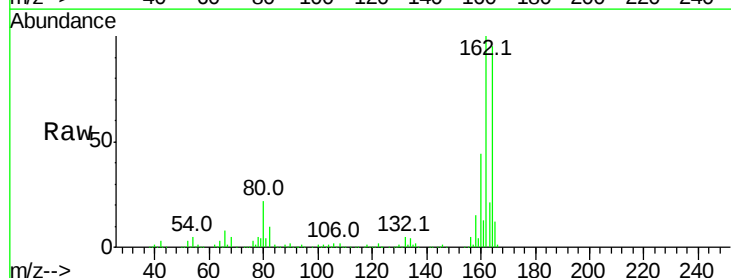
Tgt Ion:165 Resp: 38951

Ion Ratio Lower Upper

165 100

63 1.5 44.7 67.1#

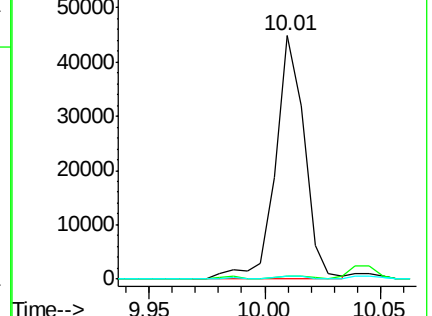
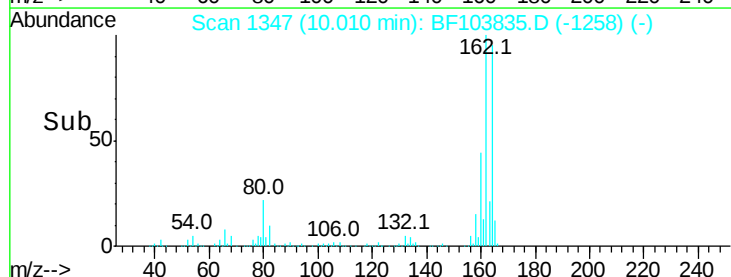
89 1.4 44.0 66.0#

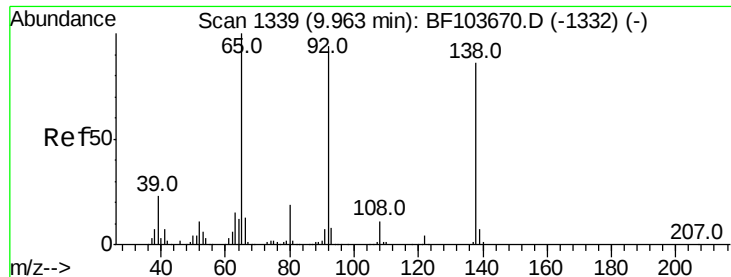


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1





#52

3-Nitroaniline

Concen: 3.865 ng

RT: 10.22 min Scan# 1382

Delta R.T. 0.25 min

Lab File: BF103835.D

Acq: 21 Mar 2018 6:55

Instrument :

BNA_F

ClientSampleId :

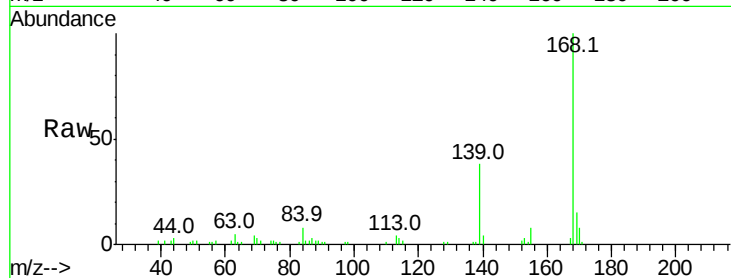
Tot Ion:138 Resp: 290

Ion Ratio Lower Upper

138 100

108 0.0 9.4 14.0#

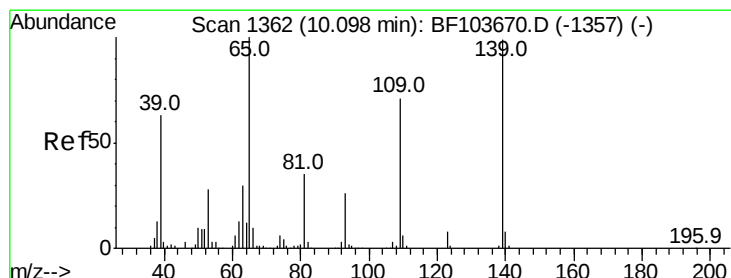
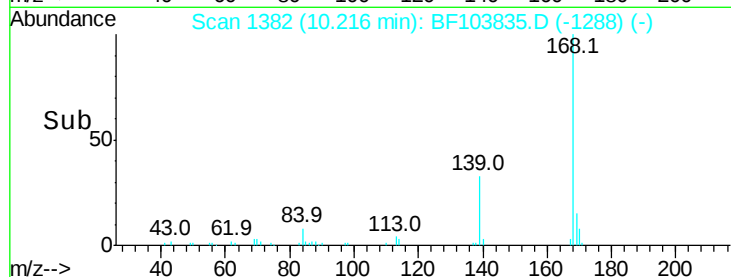
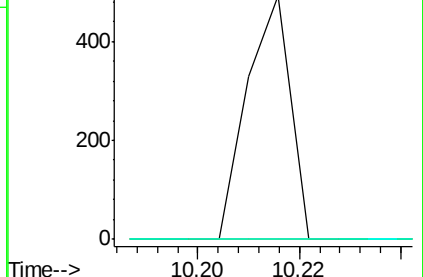
92 0.0 89.4 134.2#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BF1



#55

4-Nitrophenol

Concen: 7.479 ng

RT: 10.22 min Scan# 1382

Delta R.T. 0.12 min

Lab File: BF103835.D

Acq: 21 Mar 2018 6:55

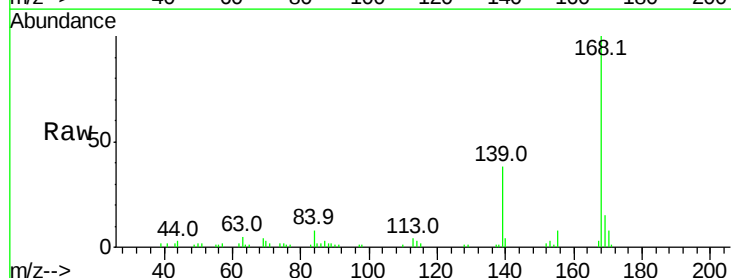
Tgt Ion:139 Resp: 11147

Ion Ratio Lower Upper

139 100

109 0.0 48.4 88.4#

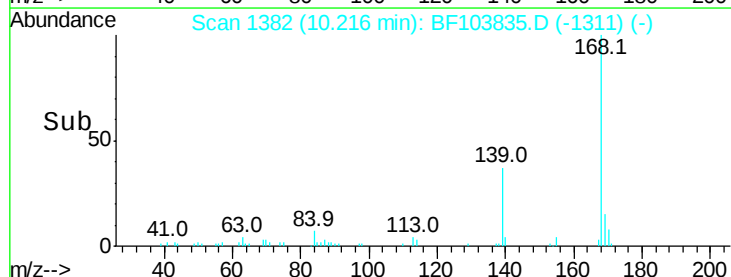
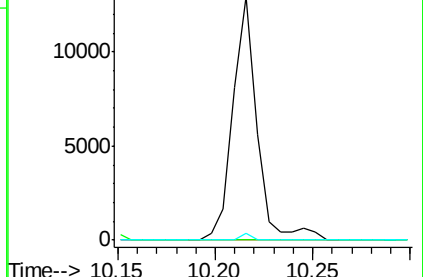
65 2.8 72.6 112.6#

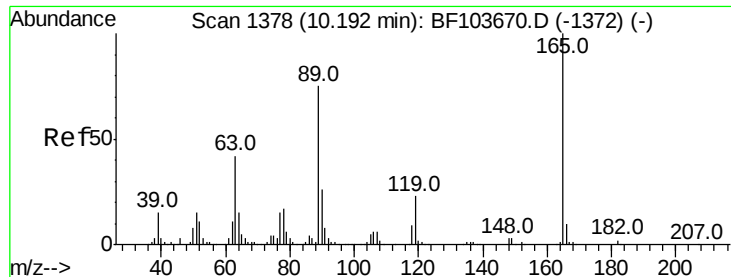


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

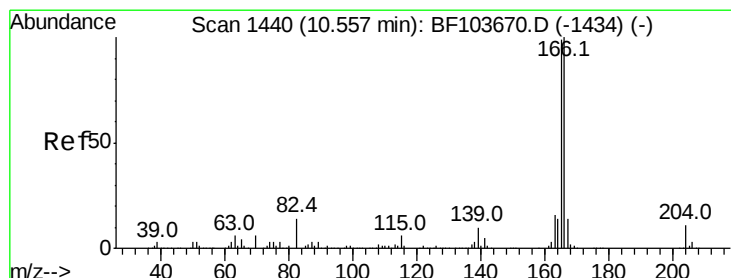
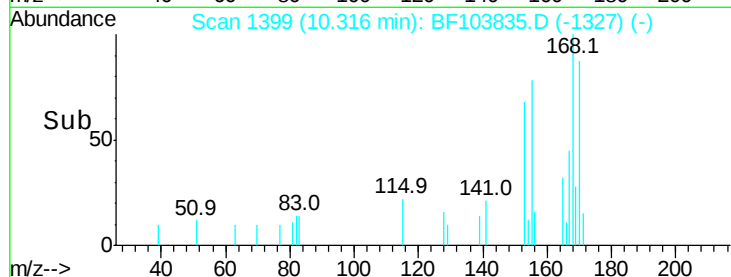
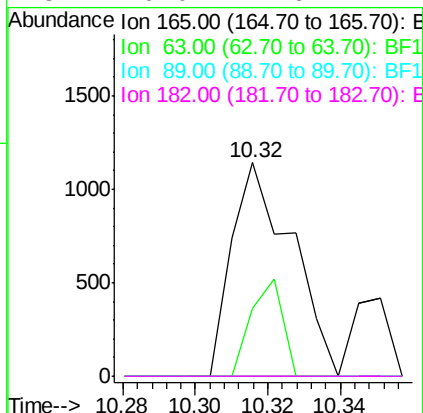
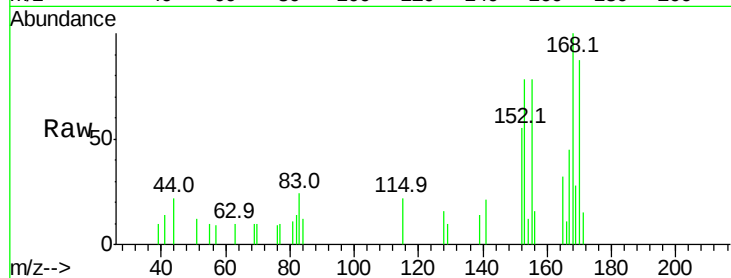




#56
2,4-Dinitrotoluene
Concen: 6.419 ng
RT: 10.32 min Scan# 1399
Delta R.T. 0.12 min
Lab File: BF103835.D
Acq: 21 Mar 2018 6:55

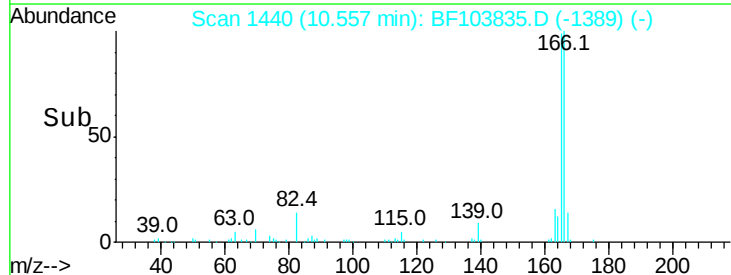
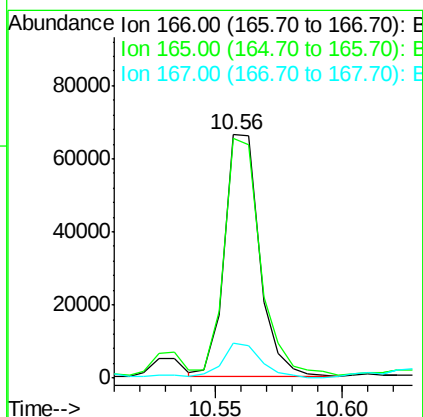
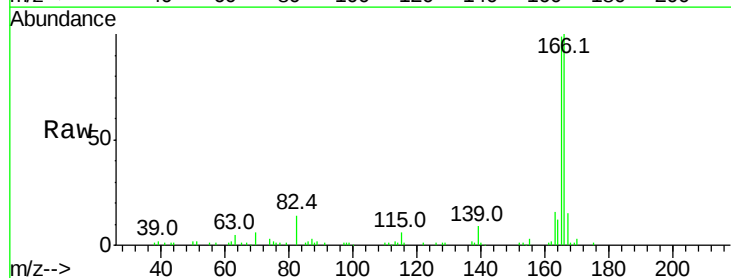
Instrument :
BNA_F
ClientSampleId :

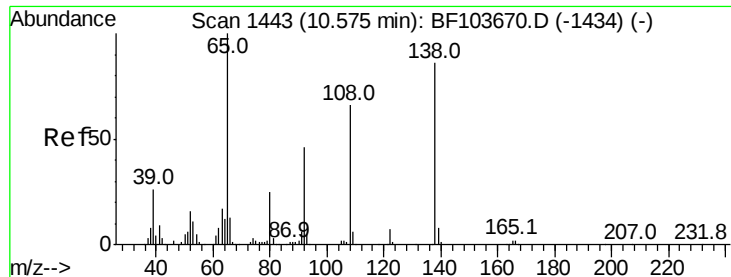
Tot Ion:165 Resp: 1316
Ion Ratio Lower Upper
165 100
63 31.8 36.4 54.6#
89 0.0 57.8 86.6#
182 0.0 1.6 2.4#



#57
Fluorene
Concen: 3.152 ng
RT: 10.56 min Scan# 1440
Delta R.T. 0.00 min
Lab File: BF103835.D
Acq: 21 Mar 2018 6:55

Tgt Ion:166 Resp: 63556
Ion Ratio Lower Upper
166 100
165 98.5 79.8 119.8
167 14.5 10.6 16.0

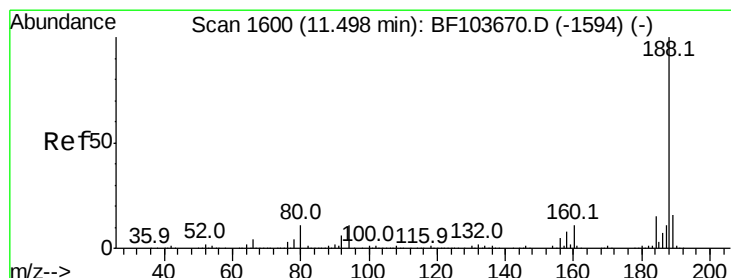
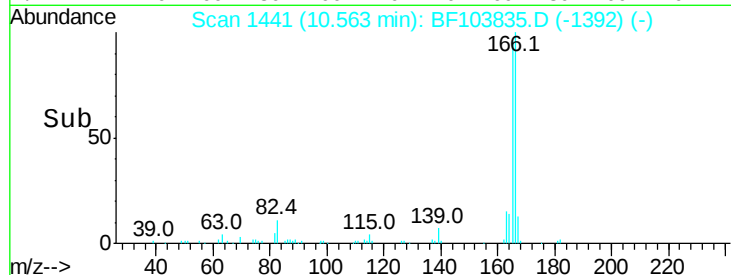
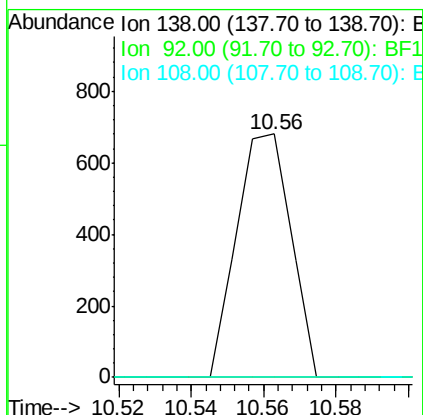
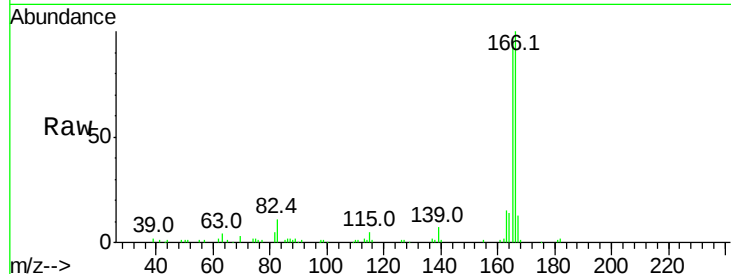




#61
4-Nitroaniline
Concen: 3.878 ng
RT: 10.56 min Scan# 1441
Delta R.T. -0.01 min
Lab File: BF103835.D
Acq: 21 Mar 2018 6:55

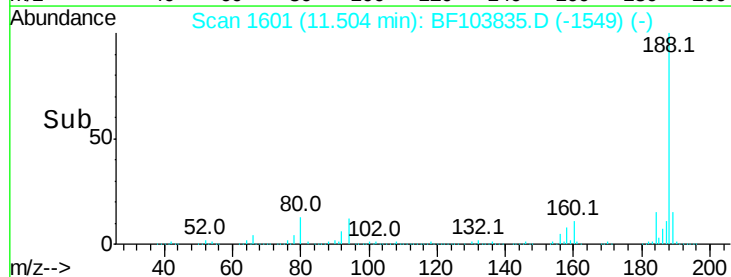
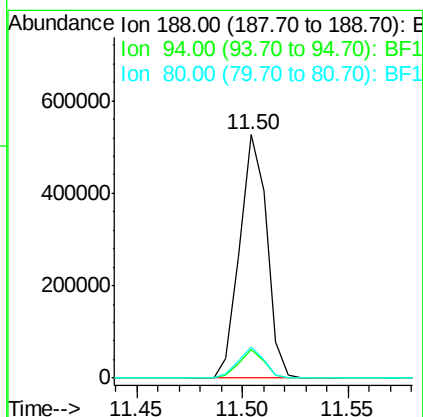
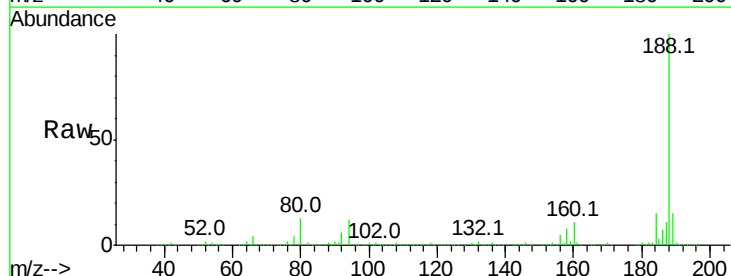
Instrument :
BNA_F
ClientSampleId :

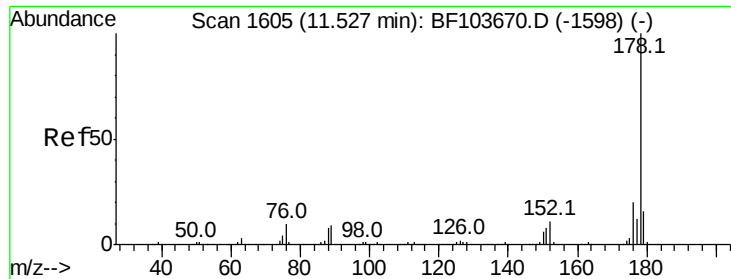
Tot Ion:138 Resp: 708
Ion Ratio Lower Upper
138 100
92 0.0 30.2 70.2#
108 0.0 52.5 92.5#



#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.50 min Scan# 1601
Delta R.T. 0.01 min
Lab File: BF103835.D
Acq: 21 Mar 2018 6:55

Tgt Ion:188 Resp: 469187
Ion Ratio Lower Upper
188 100
94 11.9 8.5 12.7
80 12.6 9.2 13.8

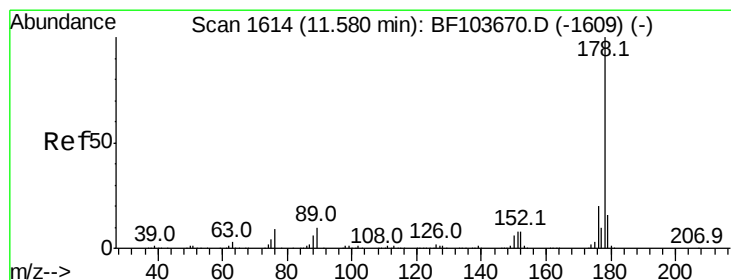
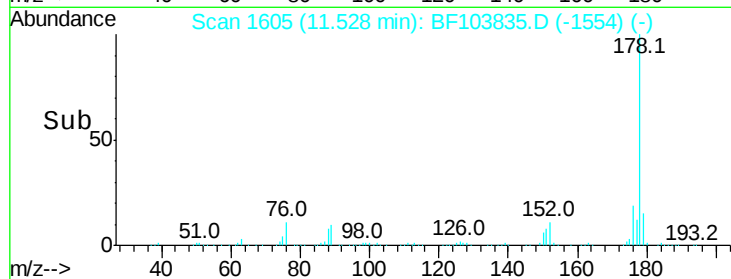
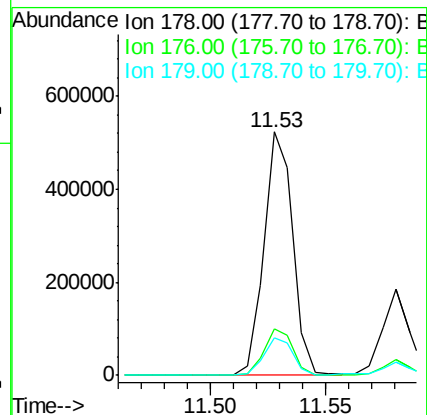
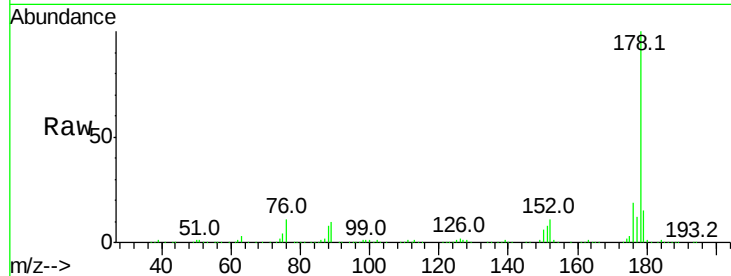




#70
Phenanthrene
Concen: 17.737 ng
RT: 11.53 min Scan# 1605
Delta R.T. 0.00 min
Lab File: BF103835.D
Acq: 21 Mar 2018 6:55

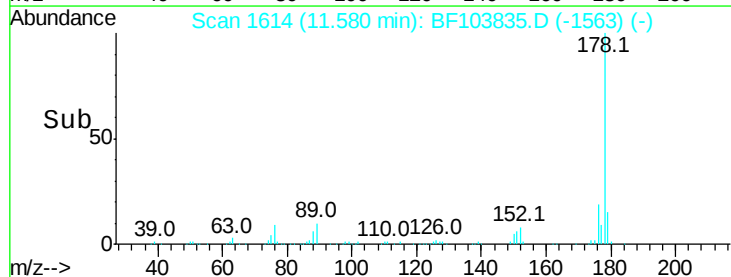
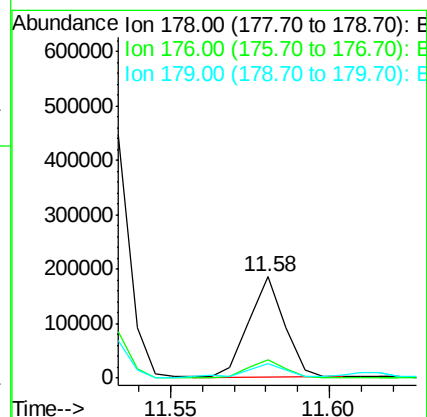
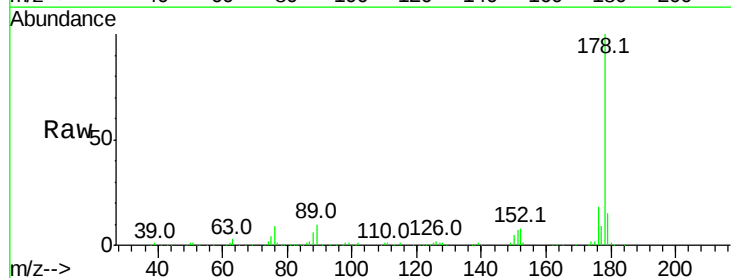
Instrument :
BNA_F
ClientSampleId :

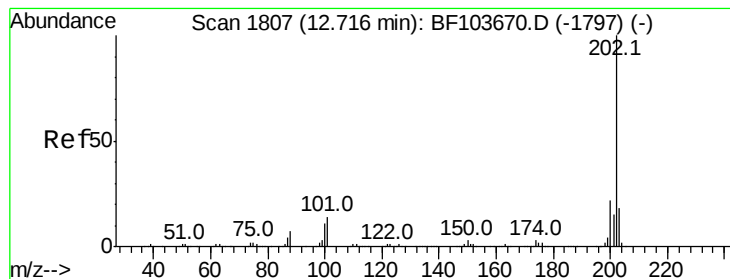
Tot Ion:178 Resp: 455228
Ion Ratio Lower Upper
178 100
176 19.3 15.8 23.8
179 15.2 13.0 19.6



#71
Anthracene
Concen: 5.519 ng
RT: 11.58 min Scan# 1614
Delta R.T. 0.00 min
Lab File: BF103835.D
Acq: 21 Mar 2018 6:55

Tgt Ion:178 Resp: 143877
Ion Ratio Lower Upper
178 100
176 18.5 15.4 23.2
179 14.8 12.6 19.0





#74

Fluoranthene

Concen: 17.584 ng

RT: 12.72 min Scan# 1808

Delta R.T. 0.01 min

Lab File: BF103835.D

Acq: 21 Mar 2018 6:55

Instrument :

BNA_F

ClientSampleId :

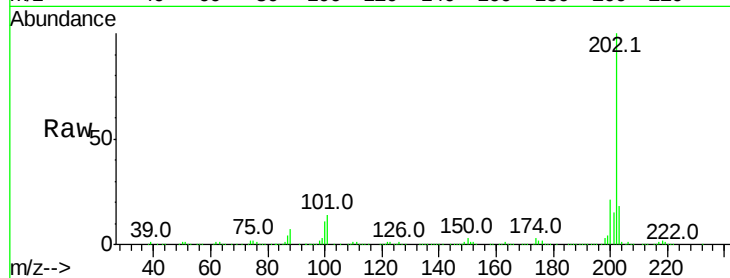
Tot Ion:202 Resp: 464949

Ion Ratio Lower Upper

202 100

101 14.3 0.0 34.1

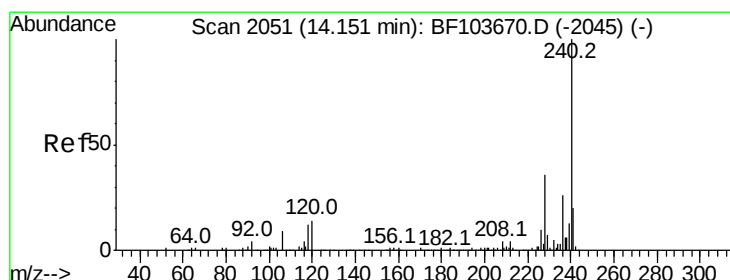
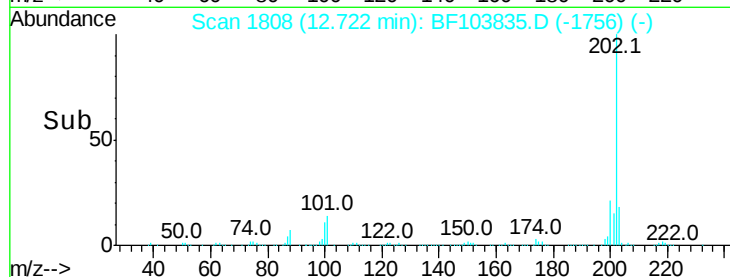
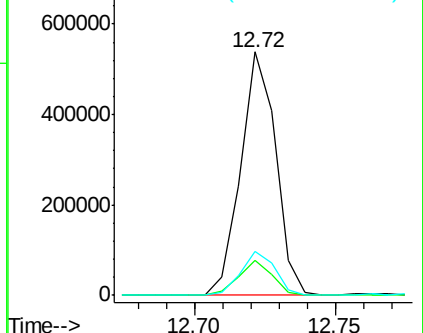
203 18.1 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.16 min Scan# 2052

Delta R.T. 0.01 min

Lab File: BF103835.D

Acq: 21 Mar 2018 6:55

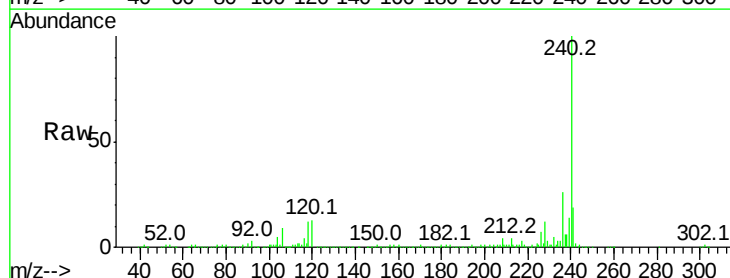
Tgt Ion:240 Resp: 332576

Ion Ratio Lower Upper

240 100

120 13.2 9.5 14.3

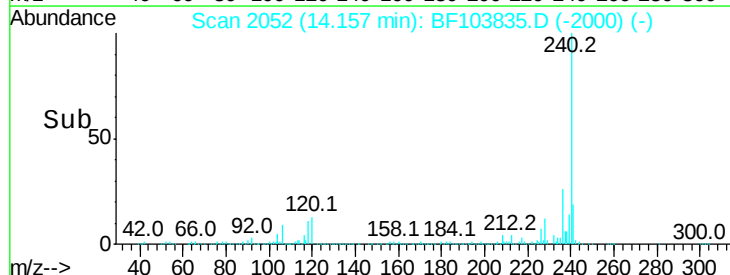
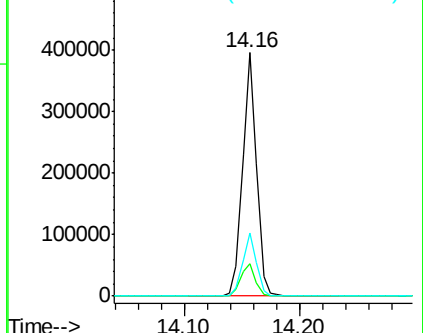
236 25.9 20.7 31.1

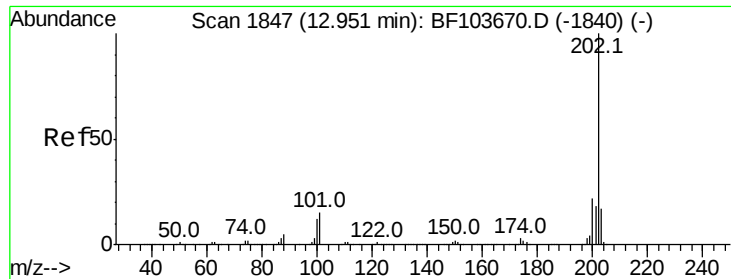


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 20.412 ng

RT: 12.96 min Scan# 1848

Delta R.T. 0.01 min

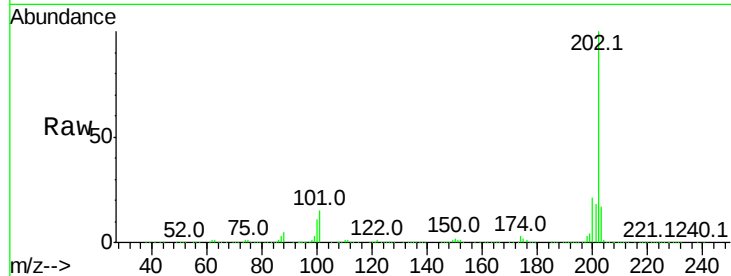
Lab File: BF103835.D

Acq: 21 Mar 2018 6:55

Instrument :
BNA_F
ClientSampleId :

Tot Ion:202 Resp: 498546

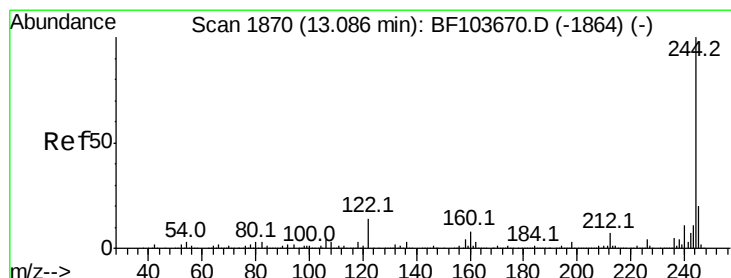
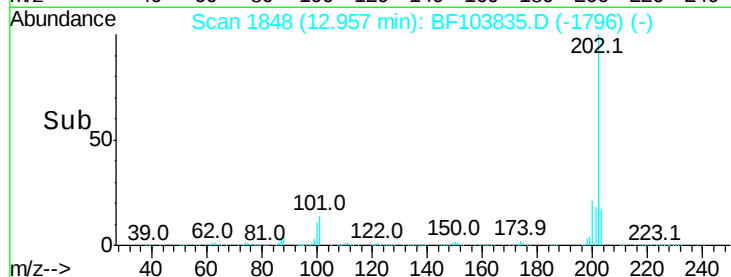
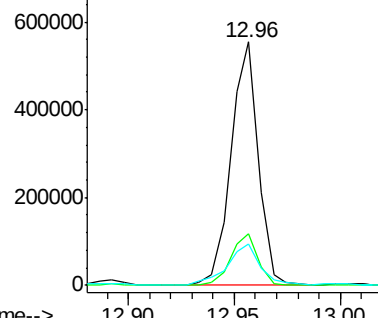
Ion	Ratio	Lower	Upper
202	100		
200	21.1	17.4	26.2
203	17.2	14.3	21.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 3.697 ng

RT: 13.09 min Scan# 1870

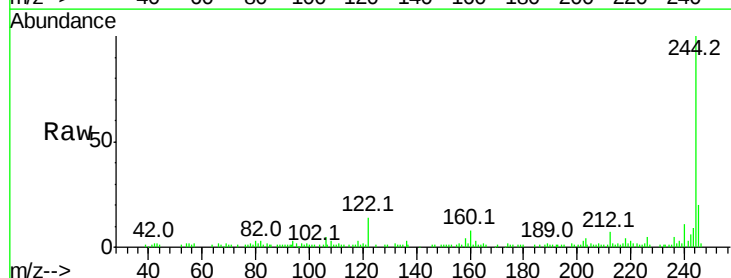
Delta R.T. 0.00 min

Lab File: BF103835.D

Acq: 21 Mar 2018 6:55

Tgt Ion:244 Resp: 52965

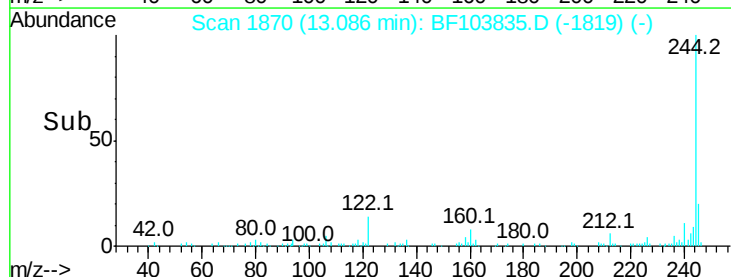
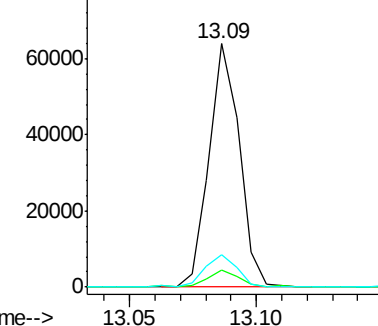
Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.4	8.0
122	13.5	11.0	16.4

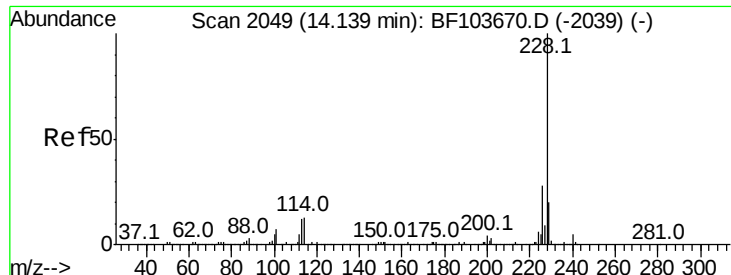


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 11.639 ng

RT: 14.14 min Scan# 2050

Delta R.T. 0.01 min

Lab File: BF103835.D

Acq: 21 Mar 2018 6:55

Instrument :

BNA_F

ClientSampleId :

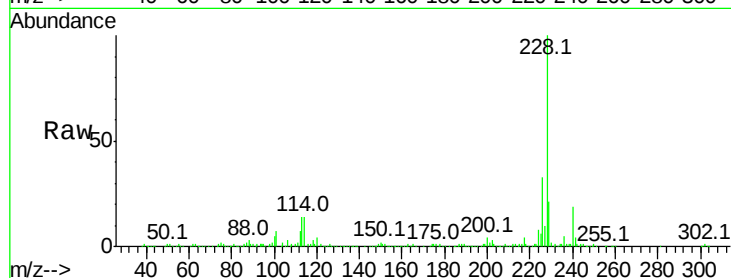
Tot Ion:228 Resp: 245029

Ion Ratio Lower Upper

228 100

226 32.7 22.6 33.8

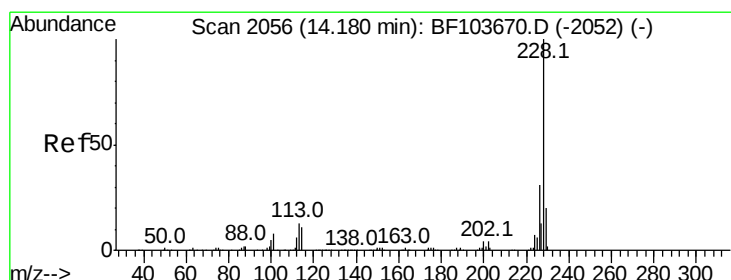
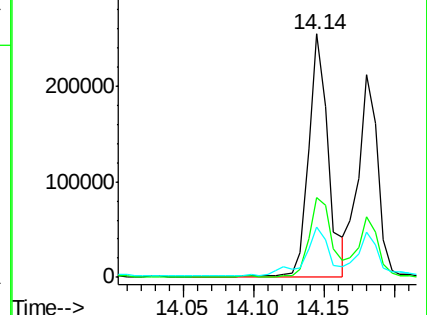
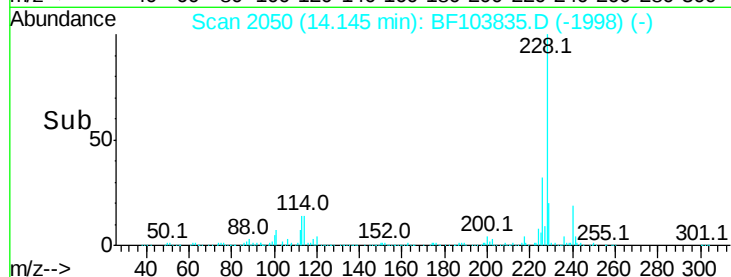
229 20.9 15.8 23.6



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 10.230 ng

RT: 14.18 min Scan# 2056

Delta R.T. 0.00 min

Lab File: BF103835.D

Acq: 21 Mar 2018 6:55

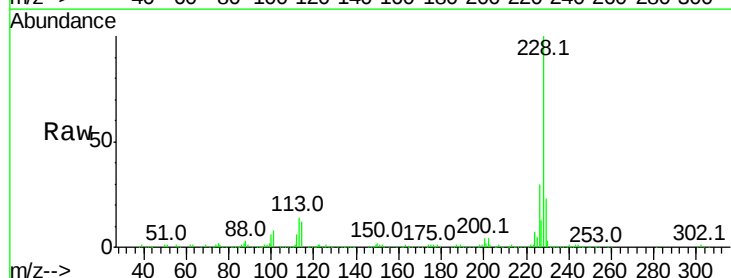
Tgt Ion:228 Resp: 205304

Ion Ratio Lower Upper

228 100

226 29.9 25.0 37.6

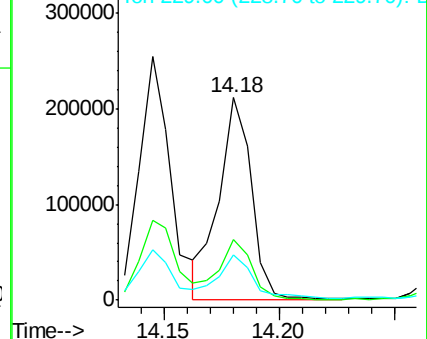
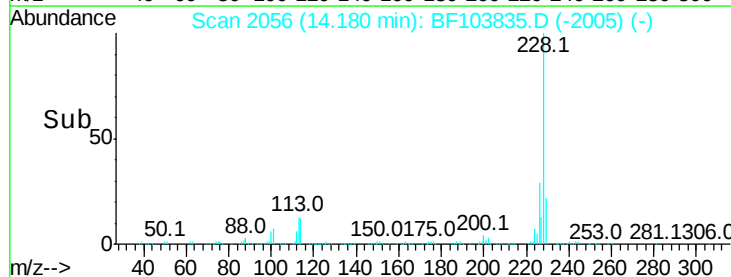
229 22.6 16.2 24.4

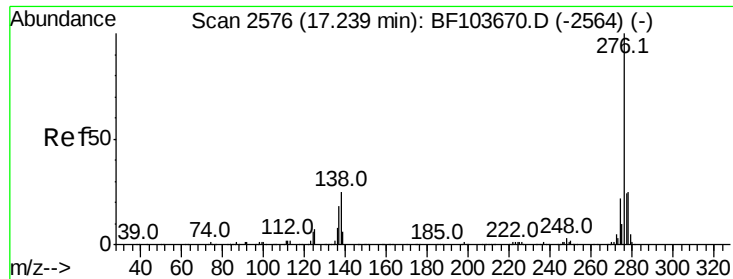


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

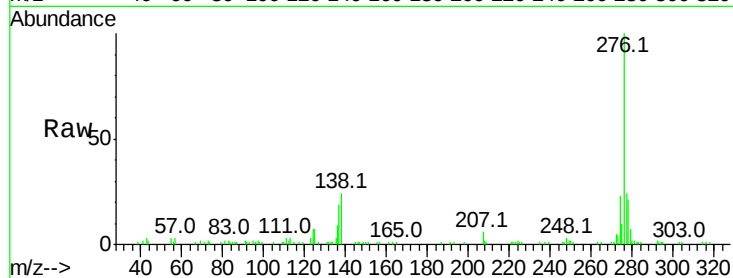




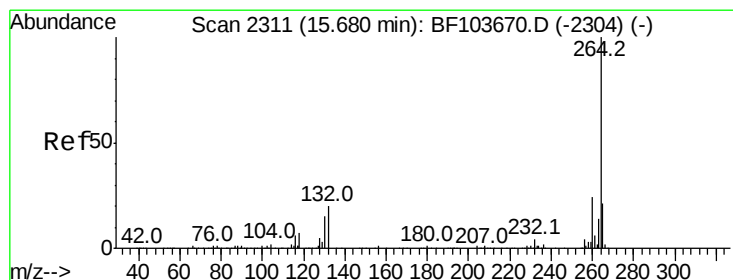
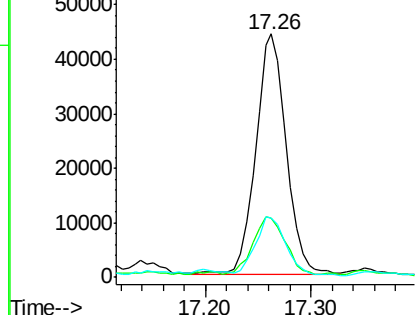
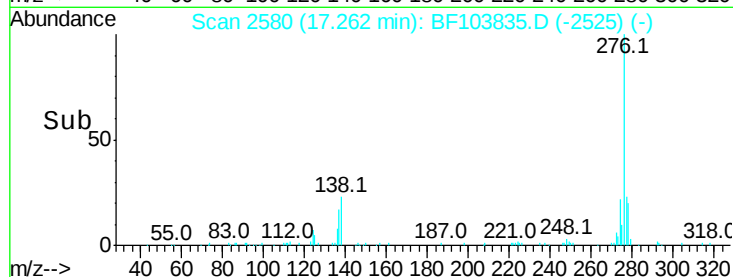
#85
Indeno(1,2,3-cd)pyrene
Concen: 5.049 ng
RT: 17.26 min Scan# 2580
Delta R.T. 0.02 min
Lab File: BF103835.D
Acq: 21 Mar 2018 6:55

Instrument :
BNA_F
ClientSampleId :

Tot Ion:276 Resp: 88478
Ion Ratio Lower Upper
276 100
138 25.6 25.0 37.6
277 24.8 20.1 30.1

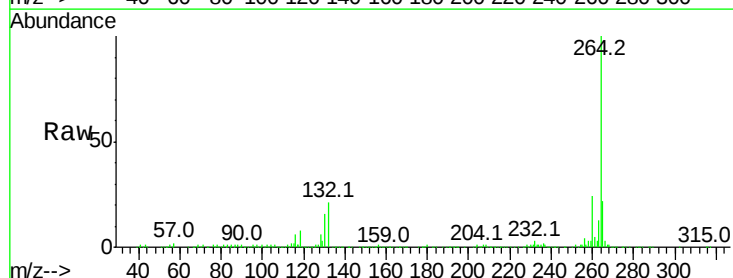


Abundance Ion 276.00 (275.70 to 276.70): E
Ion 138.00 (137.70 to 138.70): E
Ion 277.00 (276.70 to 277.70): E

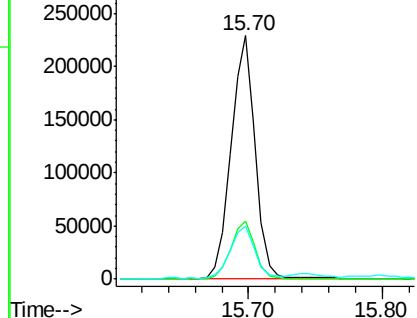
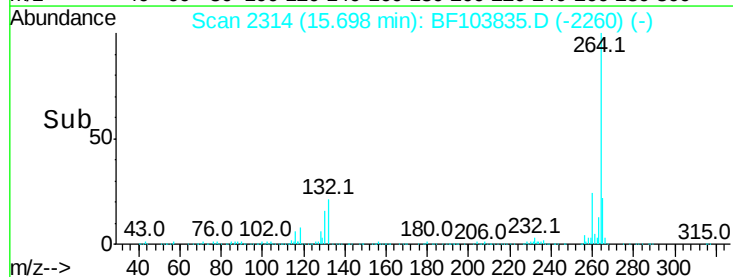


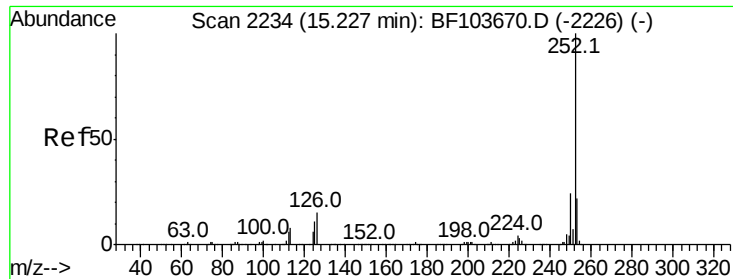
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.70 min Scan# 2314
Delta R.T. 0.02 min
Lab File: BF103835.D
Acq: 21 Mar 2018 6:55

Tgt Ion:264 Resp: 288556
Ion Ratio Lower Upper
264 100
260 23.6 19.2 28.8
265 21.9 17.5 26.3



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 16.211 ng

RT: 15.24 min Scan# 2236

Delta R.T. 0.01 min

Lab File: BF103835.D

Acq: 21 Mar 2018 6:55

Instrument :

BNA_F

ClientSampleId :

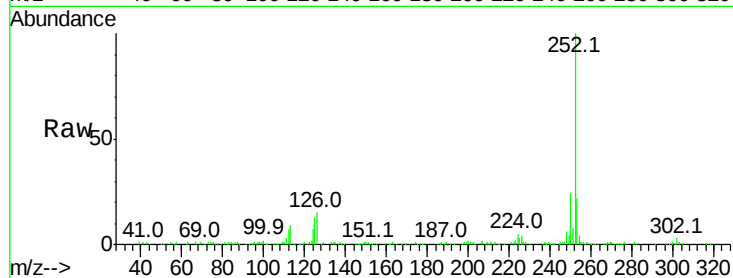
Tot Ion:252 Resp: 295526

Ion Ratio Lower Upper

252 100

253 22.2 17.0 25.6

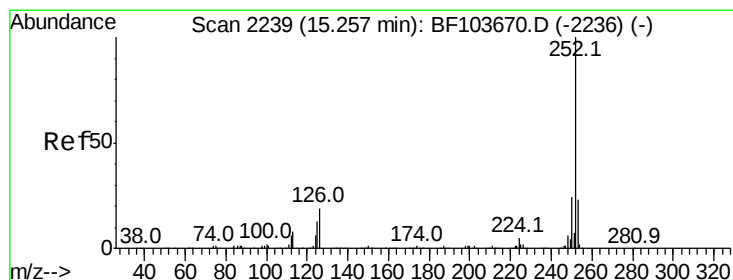
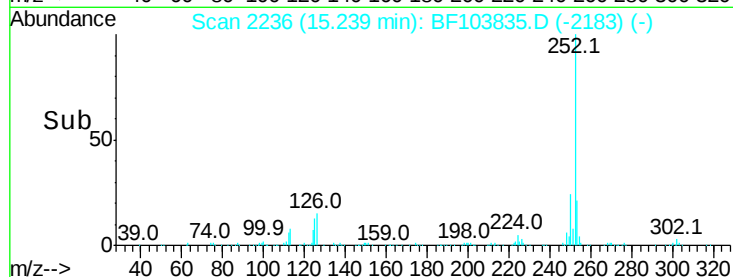
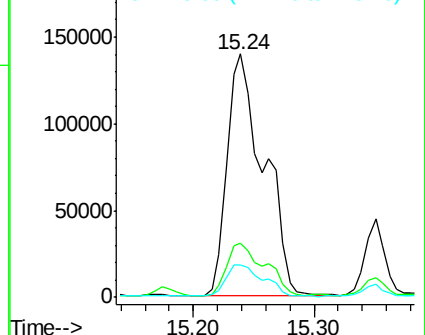
125 13.3 9.0 13.6



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(k)fluoranthene

Concen: 16.864 ng

RT: 15.24 min Scan# 2236

Delta R.T. -0.02 min

Lab File: BF103835.D

Acq: 21 Mar 2018 6:55

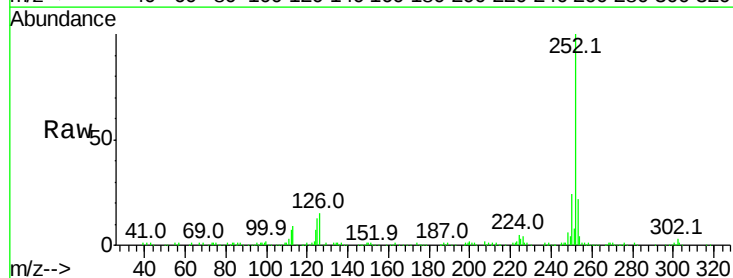
Tgt Ion:252 Resp: 295526

Ion Ratio Lower Upper

252 100

253 22.2 17.9 26.9

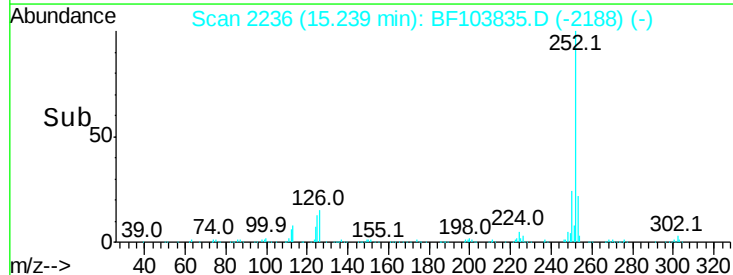
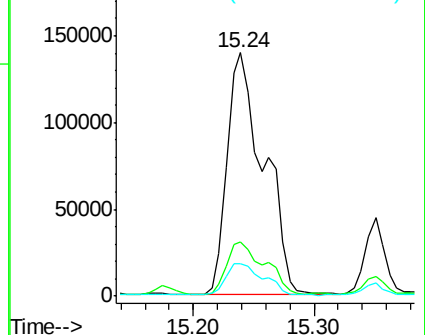
125 13.3 10.2 15.2

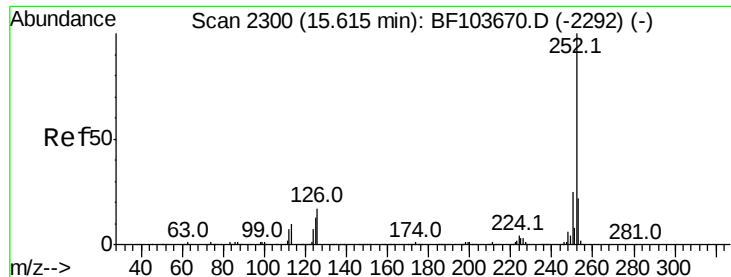


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

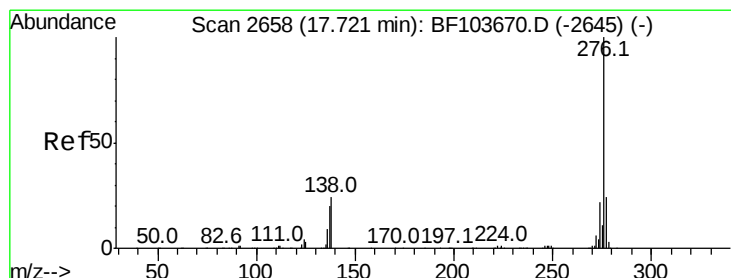
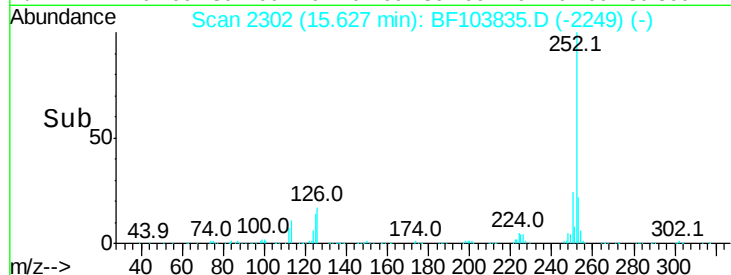
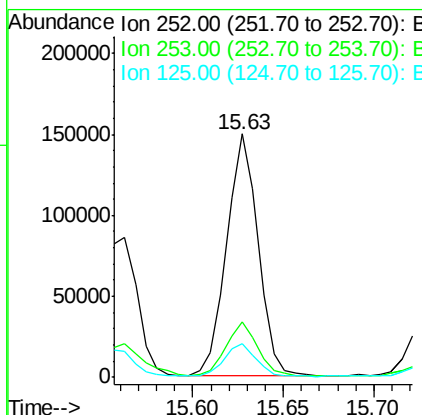
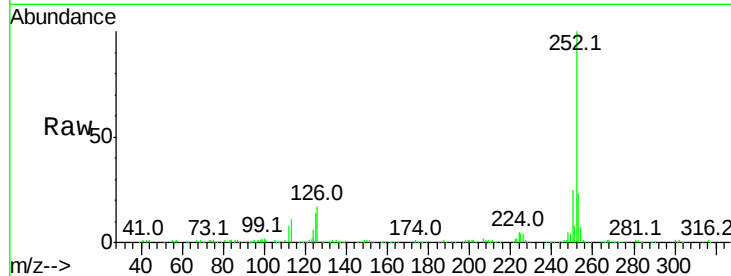




#89
Benzo(a)pyrene
Concen: 10.980 ng
RT: 15.63 min Scan# 2302
Delta R.T. 0.01 min
Lab File: BF103835.D
Acq: 21 Mar 2018 6:55

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.1	25.7
125	14.0	9.8	14.6



#91
Benzo(g,h,i)perylene
Concen: 6.035 ng
RT: 17.74 min Scan# 2662
Delta R.T. 0.02 min
Lab File: BF103835.D
Acq: 21 Mar 2018 6:55

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.1	17.9	26.9
138	24.8	21.8	32.8

