

Data Path : Z:\HPCHEM1\BNA F\DATA\BF022618\
 Data File : BF103237.D
 Acq On : 27 Feb 2018 00:10
 Operator : SJ/JU
 Sample : J1691-17 5X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Feb 27 02:27:05 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF022218.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Feb 23 02:43:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.87	152	142298	20.00	ng	0.00
21) Naphthalene-d8	8.16	136	579160	20.00	ng	0.00
38) Acenaphthene-d10	9.92	164	230228	20.00	ng	0.00
63) Phenanthrene-d10	11.41	188	354616	20.00	ng	0.00
75) Chrysene-d12	14.06	240	190016	20.00	ng	0.01
86) Perylene-d12	15.56	264	161011	20.00	ng	0.02

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.49	112	207892	22.10	ng	0.00
7) Phenol-d6	6.50	99	247517	21.50	ng	0.00
23) Nitrobenzene-d5	7.43	82	131012	12.92	ng	0.00
41) 2,4,6-Tribromophenol	10.71	330	34384	17.64	ng	0.00
44) 2-Fluorobiphenyl	9.23	172	255333	14.10	ng	0.00
78) Terphenyl-d14	12.99	244	180582	22.85	ng	0.00

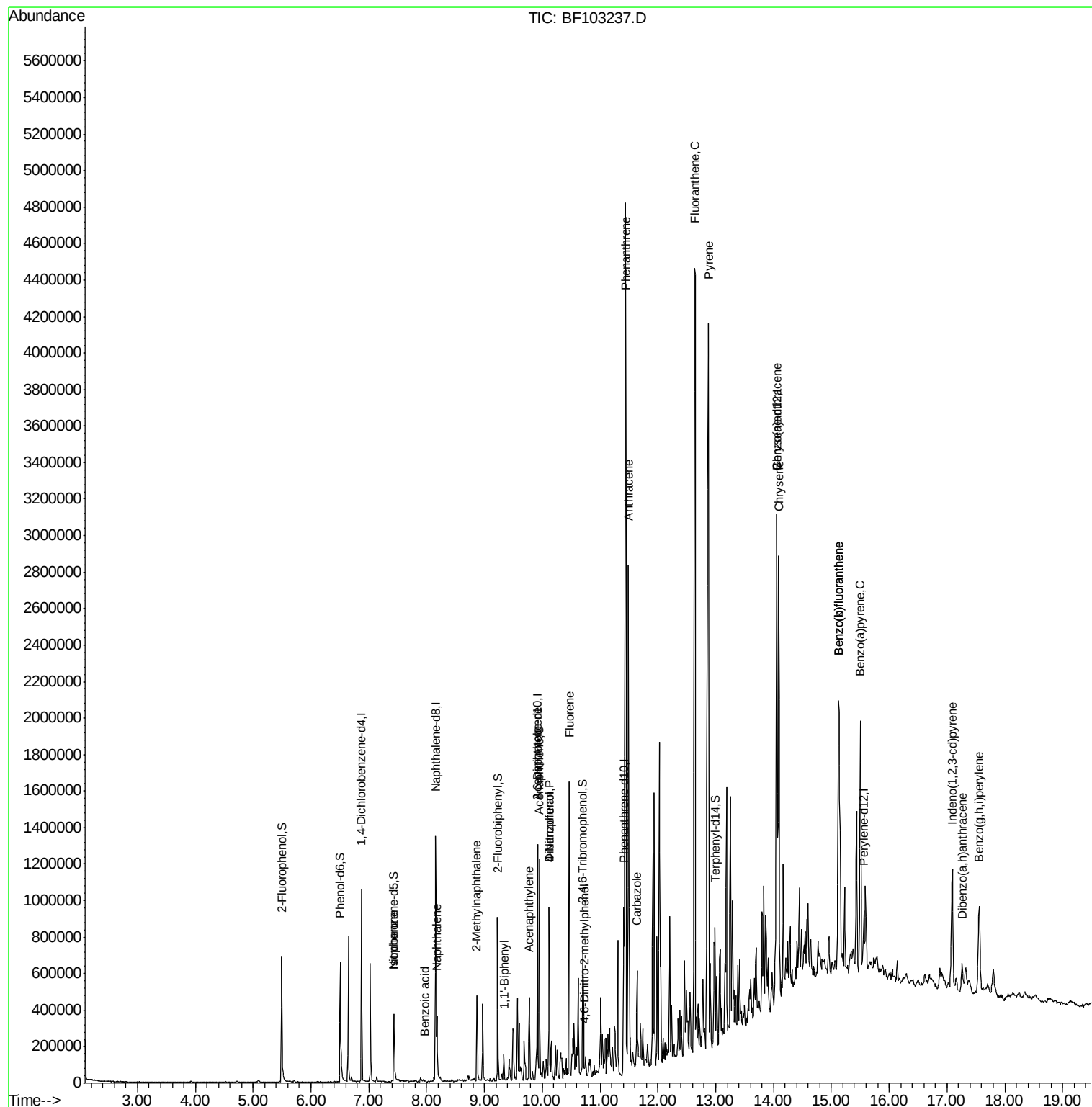
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
9) Benzaldehyde	6.44	77	988	Below Cal	#	84
25) Isophorone	7.43	82	131028	6.56	ng	64
31) Naphthalene	8.18	128	141058	4.97	ng	97
32) Benzoic acid	7.97	122	242	6.95	ng	93
37) 2-Methylnaphthalene	8.87	142	139316	7.60	ng	100
45) 1,1'-Biphenyl	9.33	154	41509	2.15	ng	96
48) Acenaphthylene	9.77	152	140897	6.00	ng	98
50) 2,6-Dinitrotoluene	9.92	165	38193	9.85	ng	# 26
51) Acenaphthene	9.95	154	255064	18.63	ng	99
54) Dibenzofuran	10.12	168	331396	17.63	ng	98
55) 4-Nitrophenol	10.12	139	129169	42.38	ng	# 10
57) Fluorene	10.47	166	474930	29.66	ng	99
64) 4,6-Dinitro-2-methylphenol	10.73	198	121	5.00	ng	# 1
70) Phenanthrene	11.45	178	2453541	125.72	ng	99
71) Anthracene	11.49	178	1095672	54.75	ng	100
72) Carbazole	11.64	167	178509	8.96	ng	99
74) Fluoranthene	12.64	202	2605432	132.86	ng	98
77) Pyrene	12.87	202	2239595	151.17	ng	98
80) Benzo(a)anthracene	14.06	228	1164954	94.49	ng	97
82) Chrysene	14.09	228	1017047	84.96	ng	98
85) Indeno(1,2,3-cd)pyrene	17.09	276	445496	47.01	ng	96
87) Benzo(b)fluoranthene	15.13	252	1439566	135.98	ng	# 94
88) Benzo(k)fluoranthene	15.13	252	1439566	144.41	ng	97
89) Benzo(a)pyrene	15.50	252	733378	77.58	ng	# 95
90) Dibenzo(a,h)anthracene	17.26	278	107876	14.77	ng	92
91) Benzo(g,h,i)perylene	17.56	276	424827	59.50	ng	94

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

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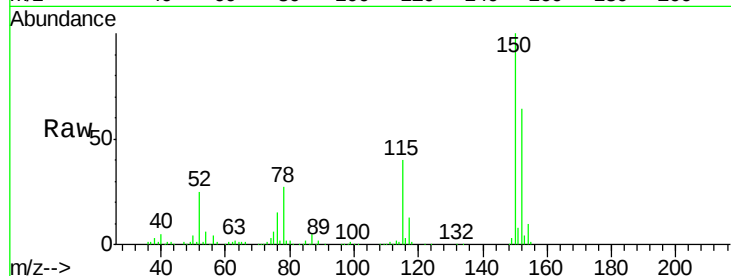


#1

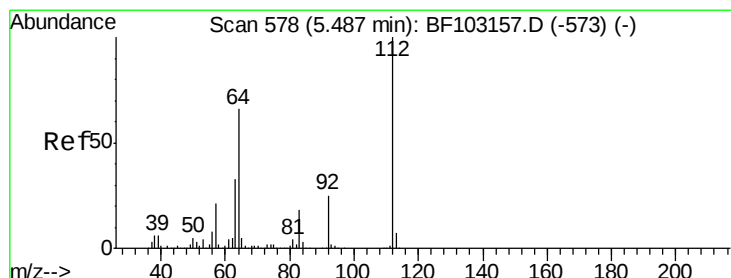
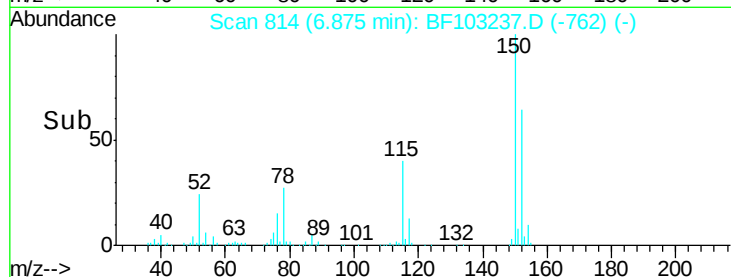
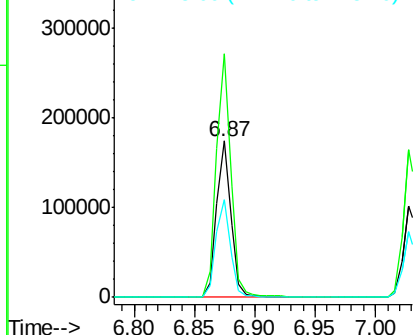
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.87 min Scan# 814
Delta R.T. 0.01 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 142298
Ion Ratio Lower Upper
152 100
150 155.8 124.6 186.8
115 62.3 50.1 75.1



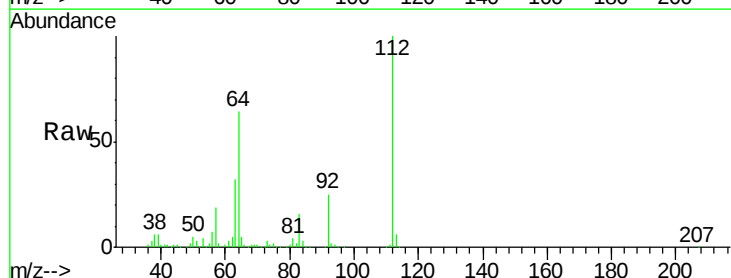
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



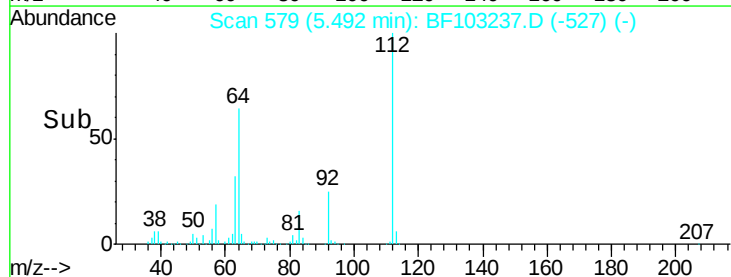
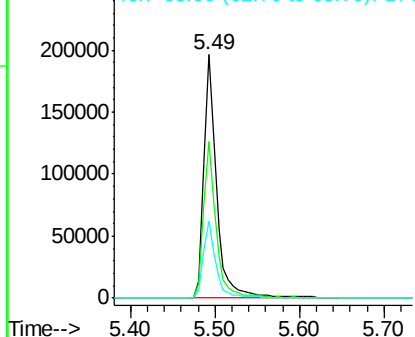
#5

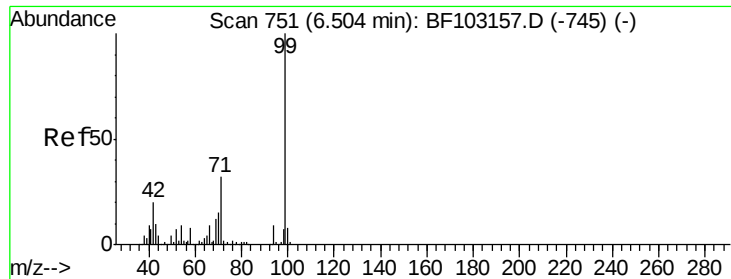
2-Fluorophenol
Concen: 22.10 ng
RT: 5.49 min Scan# 579
Delta R.T. 0.01 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

Tgt Ion:112 Resp: 207892
Ion Ratio Lower Upper
112 100
64 64.1 47.9 71.9
63 31.8 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: 21.50 ng

RT: 6.50 min Scan# 751

Delta R.T. -0.00 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

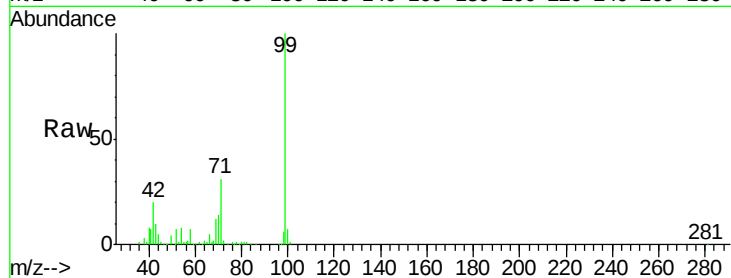
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 247517

Ion	Ratio	Lower	Upper
99	100		
42	19.8	14.5	21.7
71	30.6	25.4	38.0

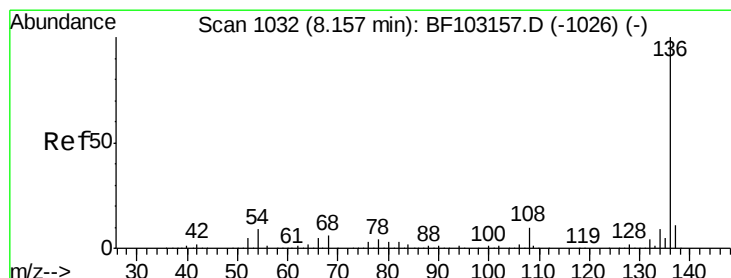
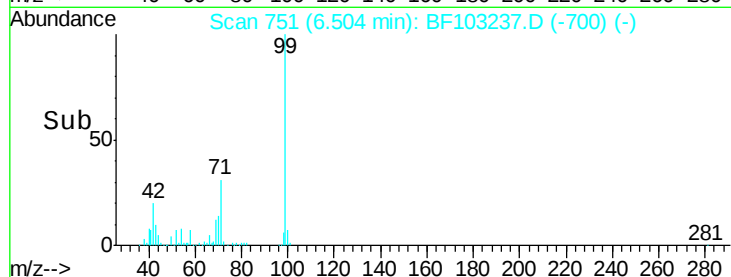
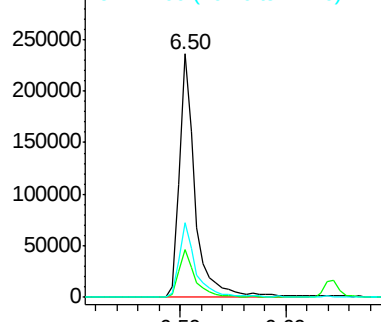


Abundance

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: 20.00 ng

RT: 8.16 min Scan# 1032

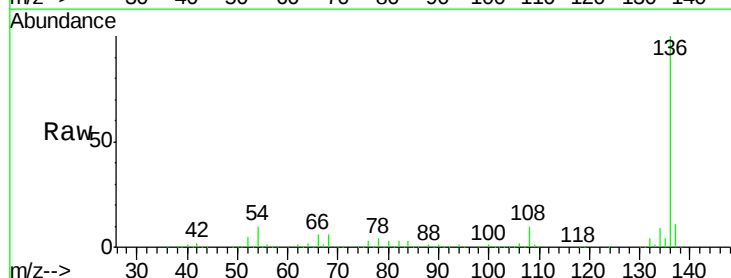
Delta R.T. -0.00 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

Tgt Ion: 136 Resp: 579160

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.9	13.3
54	9.6	6.6	9.8
68	6.5	5.0	7.4



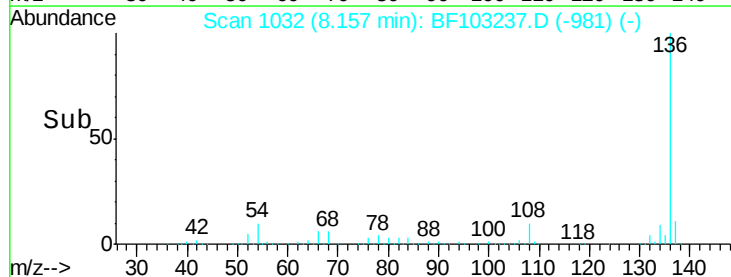
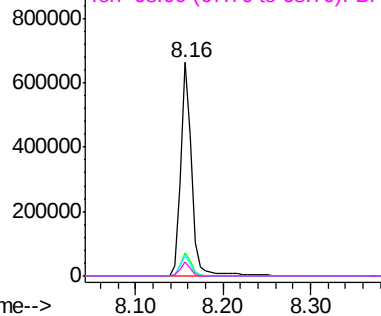
Abundance

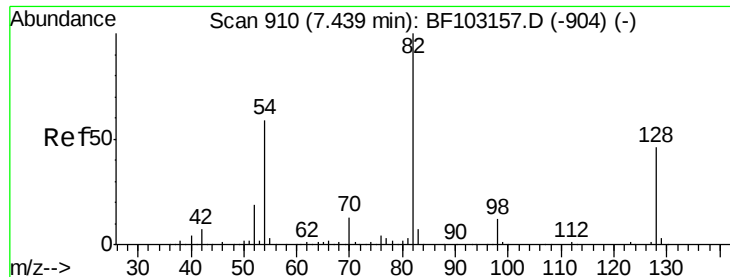
Ion 136.00 (135.70 to 136.70): BF1

Ion 137.00 (136.70 to 137.70): BF1

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

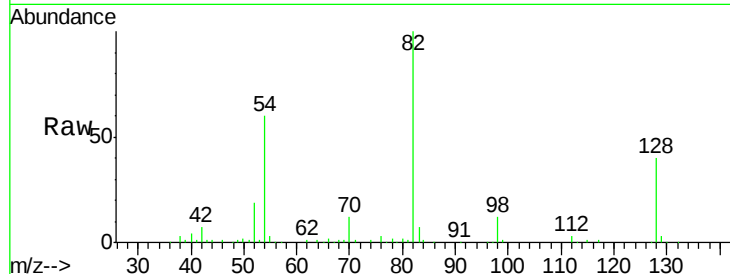




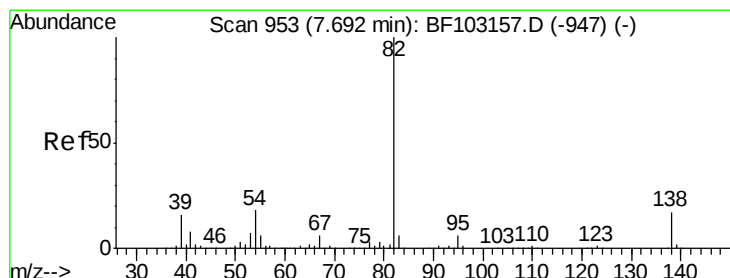
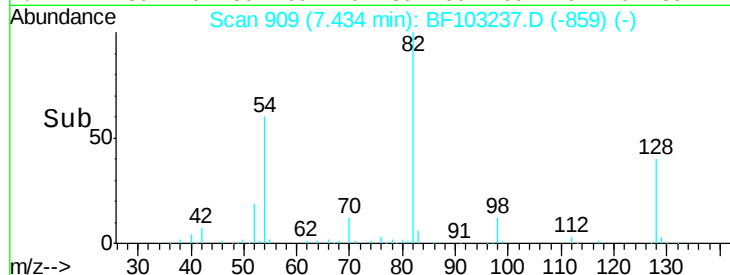
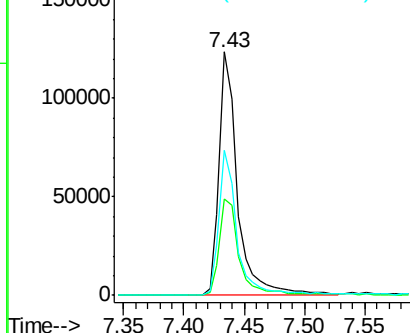
#23
Nitrobenzene-d5
Concen: 12.92 ng
RT: 7.43 min Scan# 909
Delta R.T. -0.01 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 131012
Ion Ratio Lower Upper
82 100
128 39.6 36.1 54.1
54 59.7 41.4 62.2

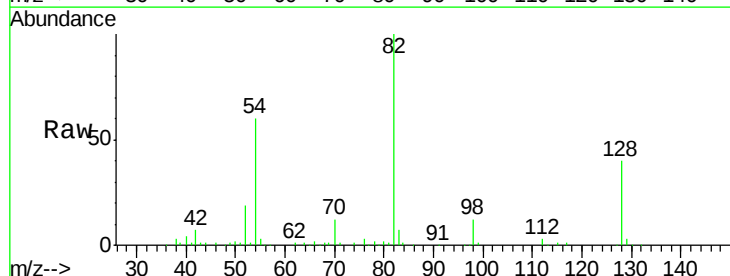


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

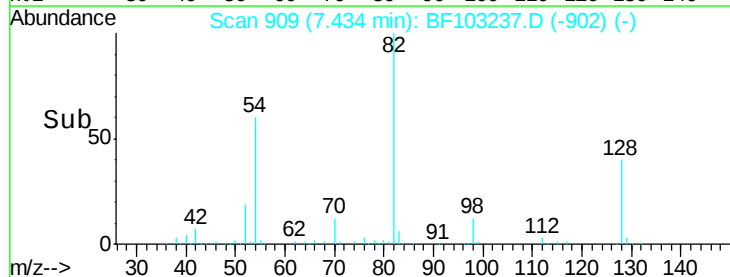
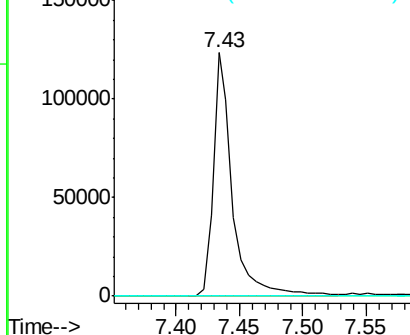


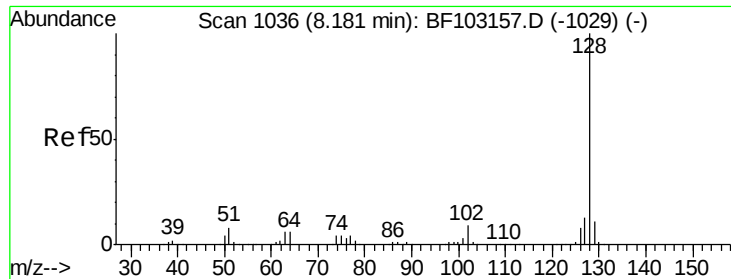
#25
Isophorone
Concen: 6.56 ng
RT: 7.43 min Scan# 909
Delta R.T. -0.26 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

Tgt Ion: 82 Resp: 131028
Ion Ratio Lower Upper
82 100
95 0.0 5.2 7.8#
138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1

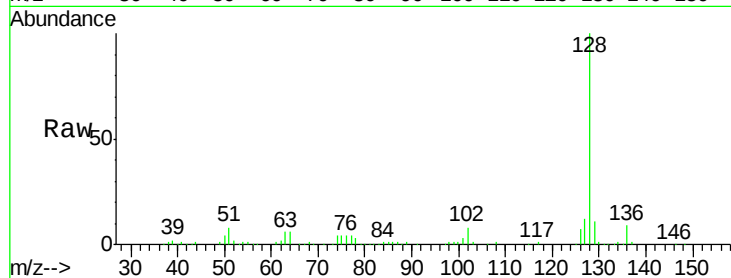




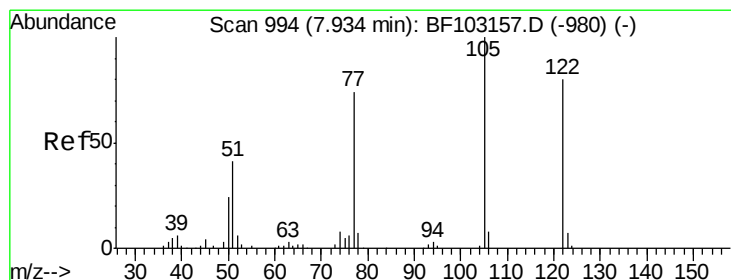
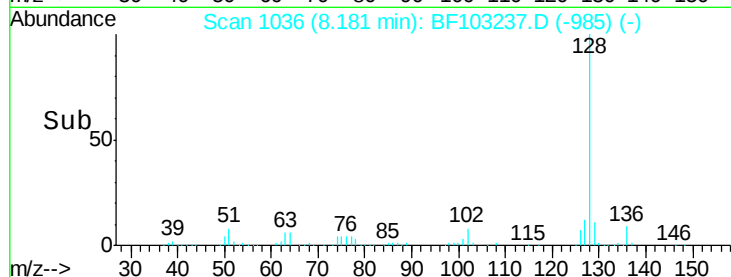
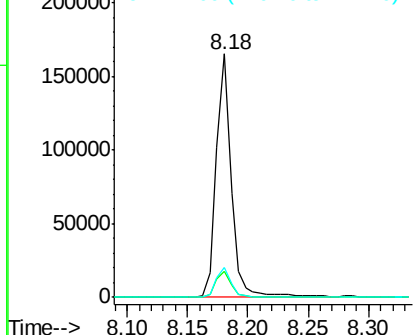
#31
Naphthalene
Concen: 4.97 ng
RT: 8.18 min Scan# 1036
Delta R.T. -0.00 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

Instrument :
BNA_F
ClientSampleId :

Tot Ion:128 Resp: 141058
Ion Ratio Lower Upper
128 100
129 10.5 8.8 13.2
127 12.1 10.9 16.3

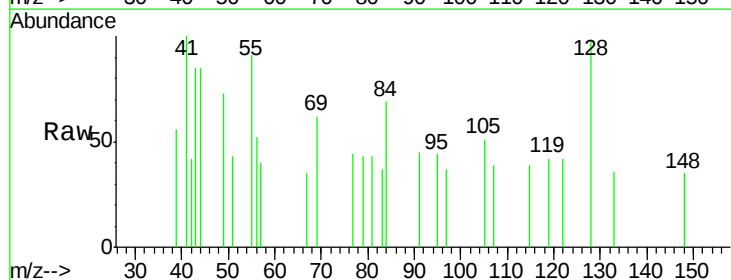


Abundance Ion 128.00 (127.70 to 128.70): E
Ion 129.00 (128.70 to 129.70): E
Ion 127.00 (126.70 to 127.70): E

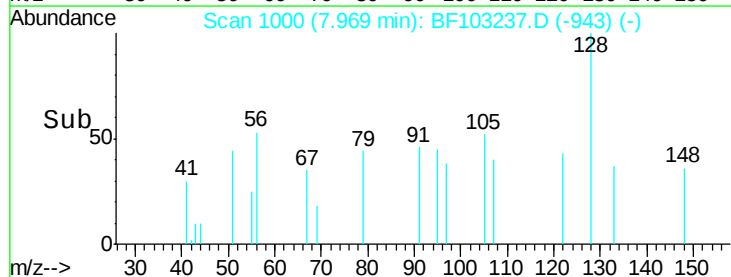
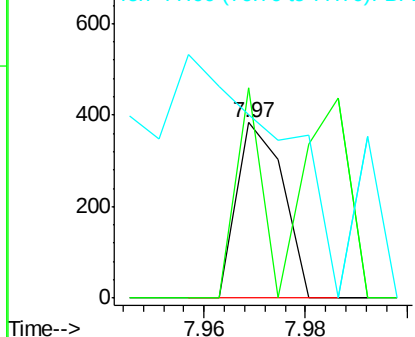


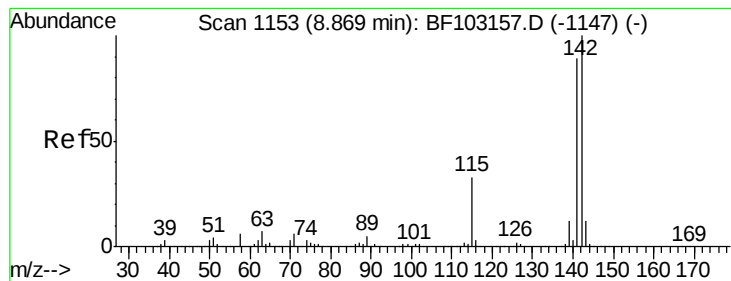
#32
Benzoic acid
Concen: 6.95 ng
RT: 7.97 min Scan# 1000
Delta R.T. 0.04 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

Tgt Ion:122 Resp: 242
Ion Ratio Lower Upper
122 100
105 120.4 101.1 141.1
77 104.4 70.7 110.7



Abundance Ion 122.00 (121.70 to 122.70): E
Ion 105.00 (104.70 to 105.70): E
Ion 77.00 (76.70 to 77.70): BF1





#37

2-Methylnaphthalene

Concen: 7.60 ng

RT: 8.87 min Scan# 1153

Delta R.T. -0.00 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

Instrument :

BNA_F

ClientSampleId :

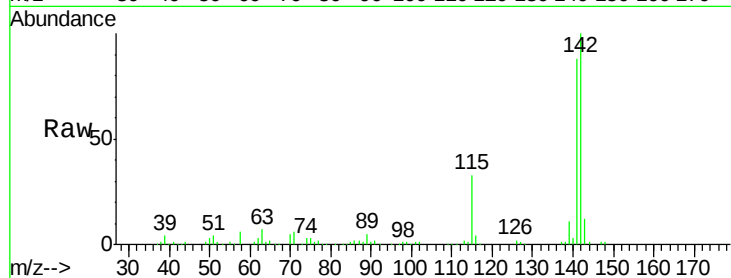
Tot Ion:142 Resp: 139316

Ion Ratio Lower Upper

142 100

141 88.5 70.8 106.2

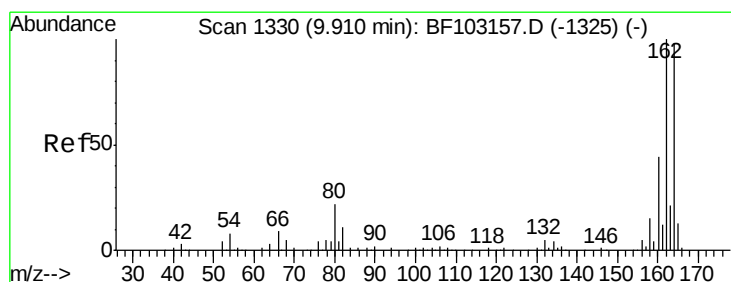
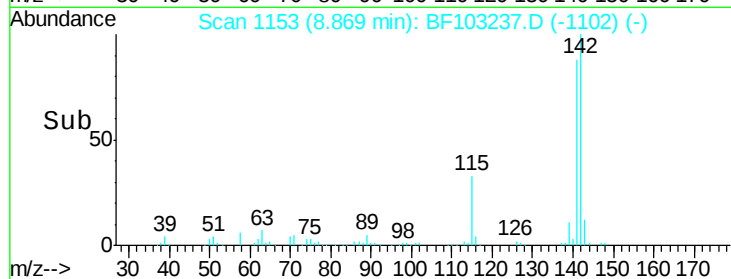
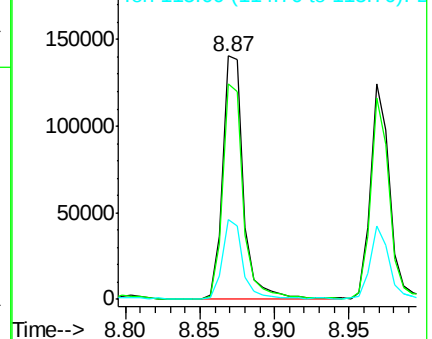
115 32.6 26.1 39.1



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.92 min Scan# 1331

Delta R.T. 0.01 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

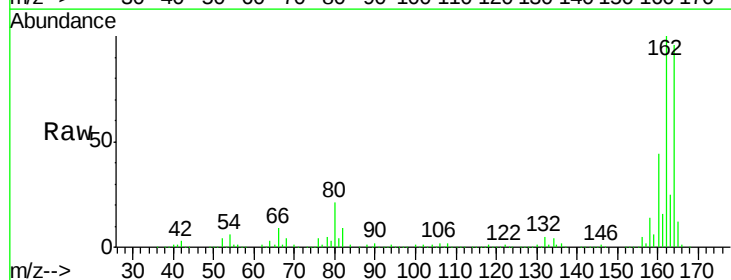
Tgt Ion:164 Resp: 230228

Ion Ratio Lower Upper

164 100

162 104.3 86.1 129.1

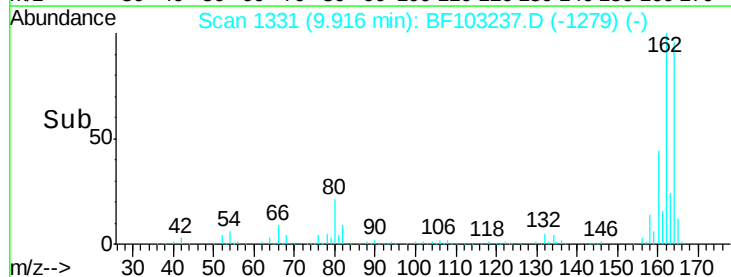
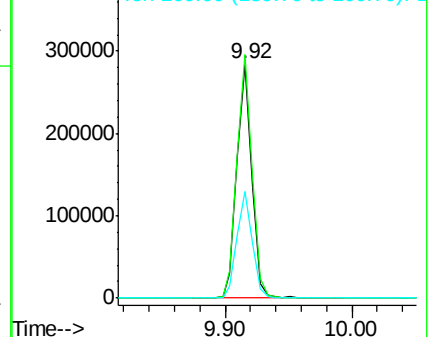
160 45.6 38.3 57.5

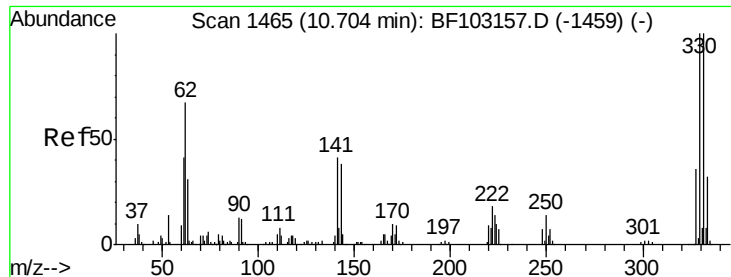


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

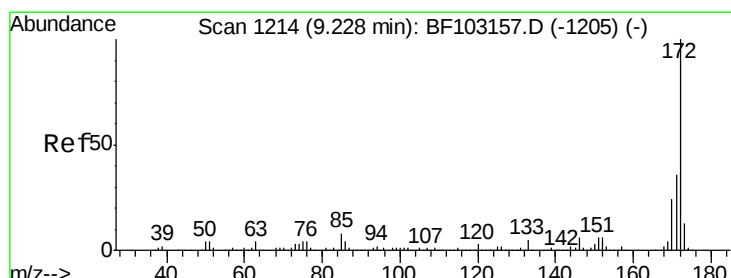
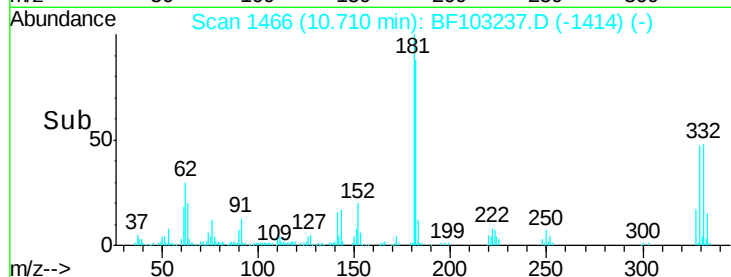
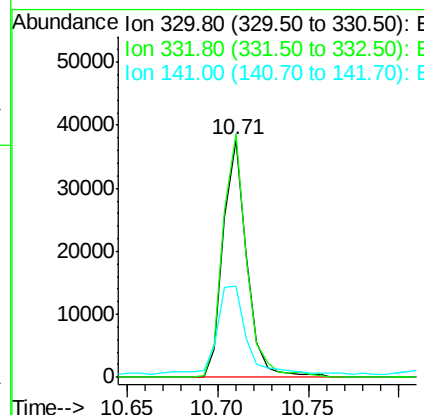
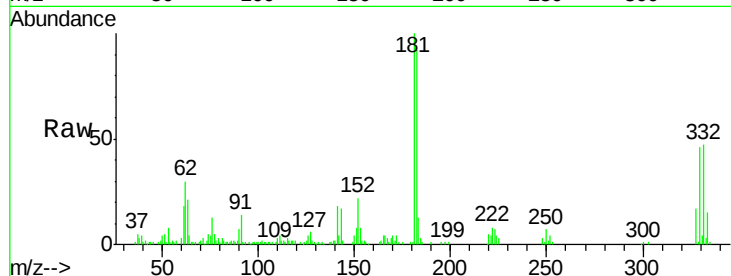




#41
 2,4,6-Tribromophenol
 Concen: 17.64 ng
 RT: 10.71 min Scan# 1466
 Delta R.T. 0.01 min
 Lab File: BF103237.D
 Acq: 27 Feb 2018 00:10

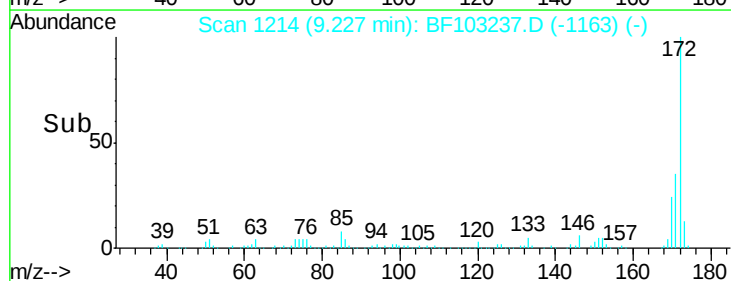
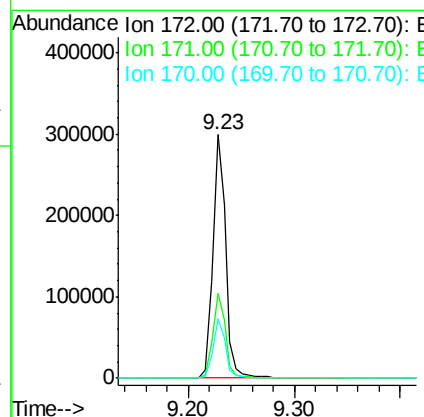
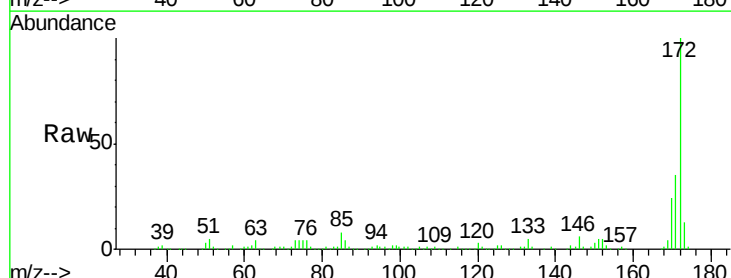
Instrument :
 BNA_F
 ClientSampleId :

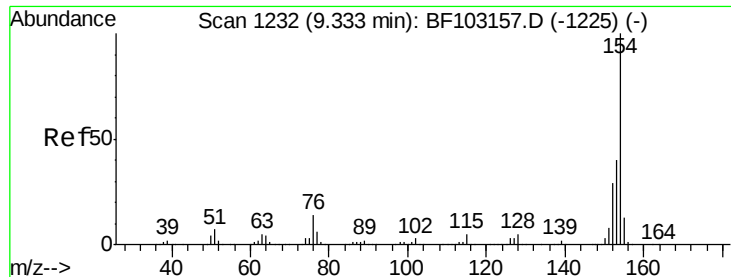
Tot Ion:330 Resp: 34384
 Ion Ratio Lower Upper
 330 100
 332 103.2 77.0 115.6
 141 48.5 29.9 44.9#



#44
 2-Fluorobiphenyl
 Concen: 14.10 ng
 RT: 9.23 min Scan# 1214
 Delta R.T. 0.00 min
 Lab File: BF103237.D
 Acq: 27 Feb 2018 00:10

Tgt Ion:172 Resp: 255333
 Ion Ratio Lower Upper
 172 100
 171 35.1 29.7 44.5
 170 24.2 19.6 29.4





#45

1,1'-Biphenyl

Concen: 2.15 ng

RT: 9.33 min Scan# 1232

Delta R.T. -0.00 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

Instrument :

BNA_F

ClientSampleId :

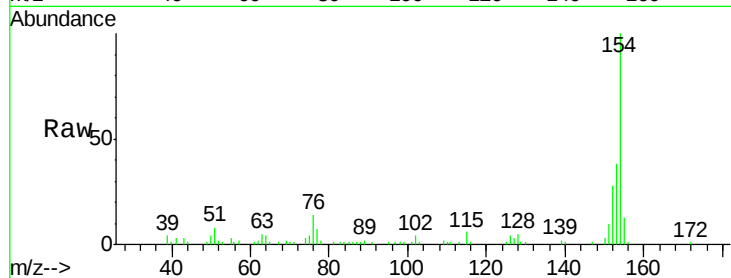
Tot Ion:154 Resp: 41509

Ion Ratio Lower Upper

154 100

153 37.8 21.3 61.3

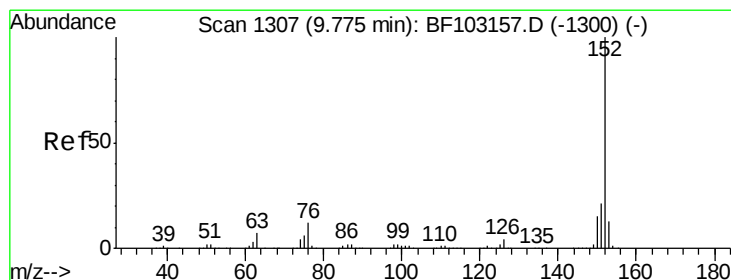
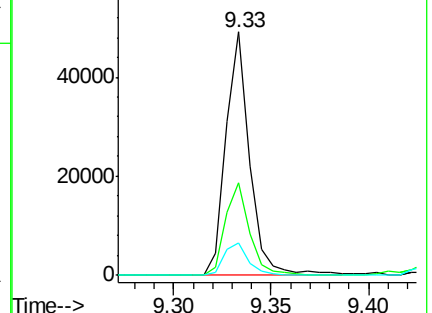
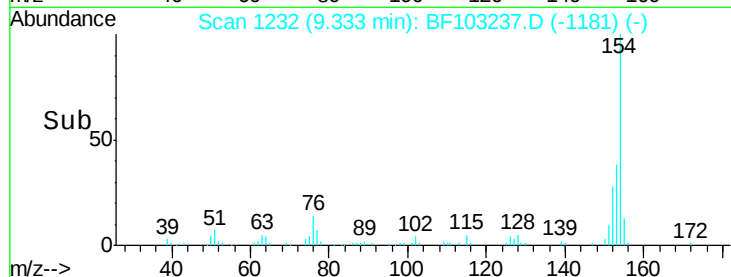
76 13.5 0.0 34.0



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF1



#48

Acenaphthylene

Concen: 6.00 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.00 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

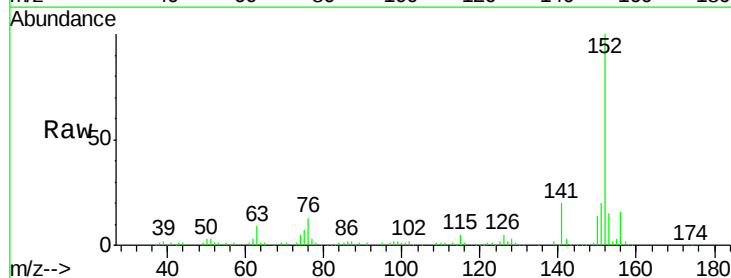
Tgt Ion:152 Resp: 140897

Ion Ratio Lower Upper

152 100

151 19.7 16.3 24.5

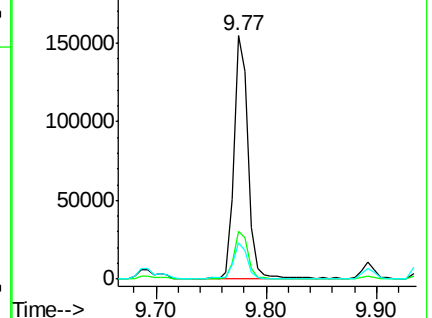
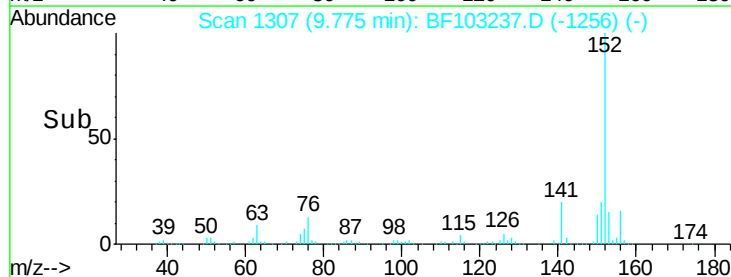
153 14.9 10.7 16.1

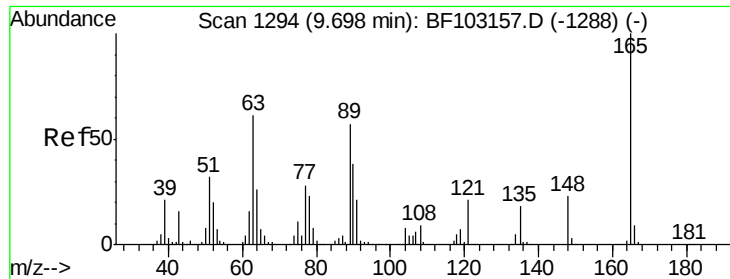


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

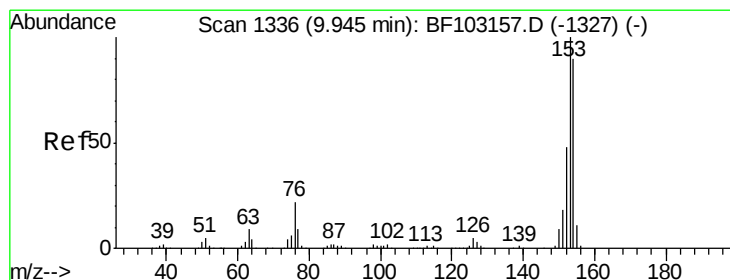
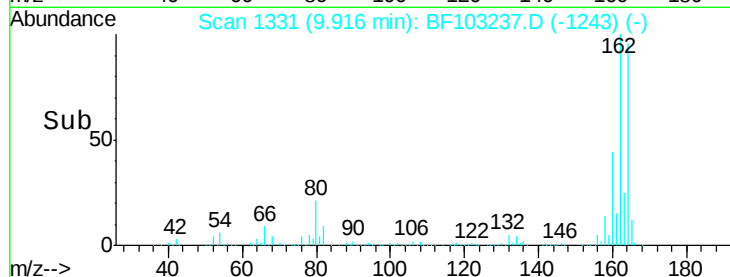
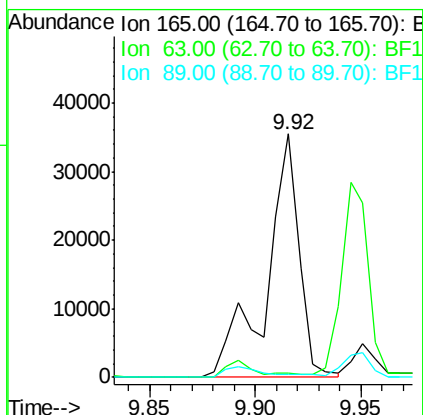
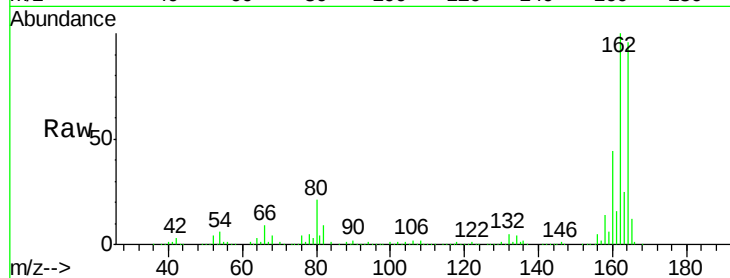




#50
 2,6-Dinitrotoluene
 Concen: 9.85 ng
 RT: 9.92 min Scan# 1331
 Delta R.T. 0.22 min
 Lab File: BF103237.D
 Acq: 27 Feb 2018 00:10

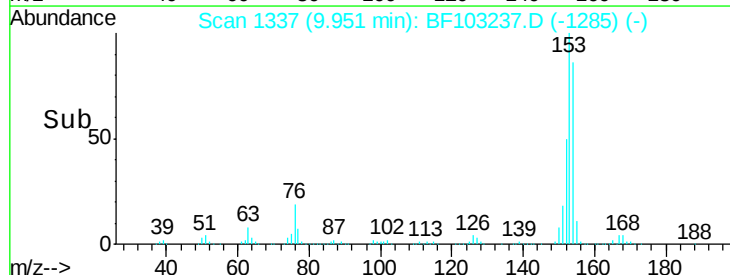
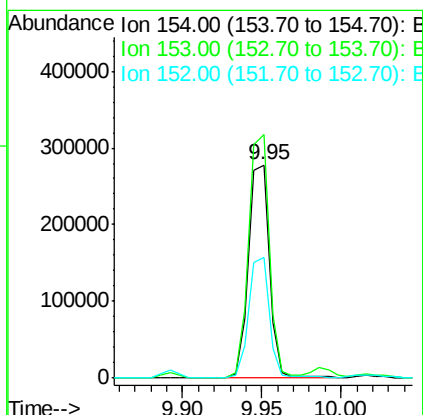
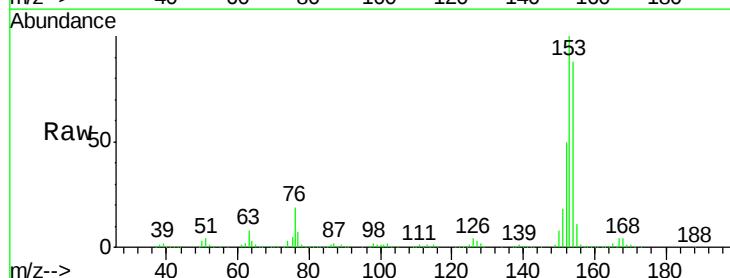
Instrument :
 BNA_F
 ClientSampleId :

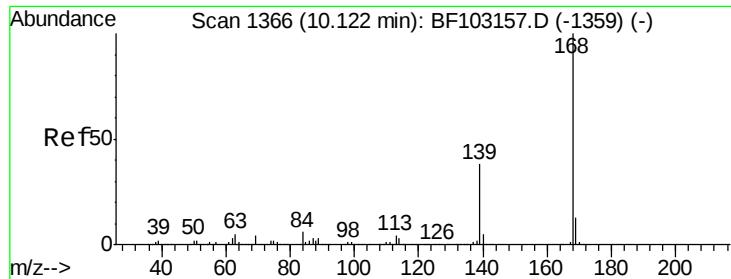
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.7	44.7	67.1#
89	1.2	44.0	66.0#



#51
 Acenaphthene
 Concen: 18.63 ng
 RT: 9.95 min Scan# 1337
 Delta R.T. 0.01 min
 Lab File: BF103237.D
 Acq: 27 Feb 2018 00:10

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.2	91.2	136.8
152	56.7	43.8	65.8





#54

Dibenzenofuran

Concen: 17.63 ng

RT: 10.12 min Scan# 1366

Delta R.T. 0.00 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

Instrument :

BNA_F

ClientSampled :

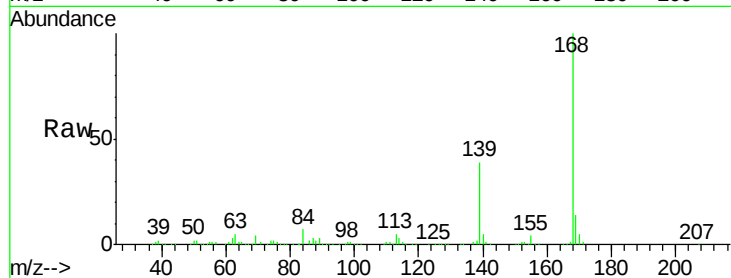
Tot Ion:168 Resp: 331396

Ion Ratio Lower Upper

168 100

139 39.2 30.1 45.1

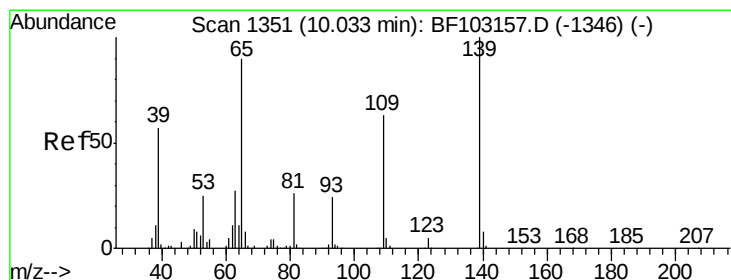
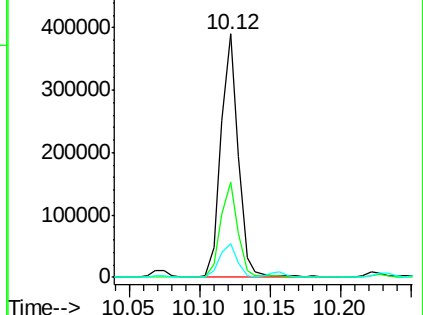
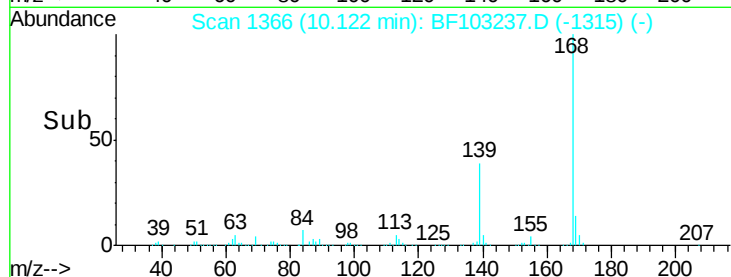
169 14.0 10.9 16.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 42.38 ng

RT: 10.12 min Scan# 1366

Delta R.T. 0.09 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

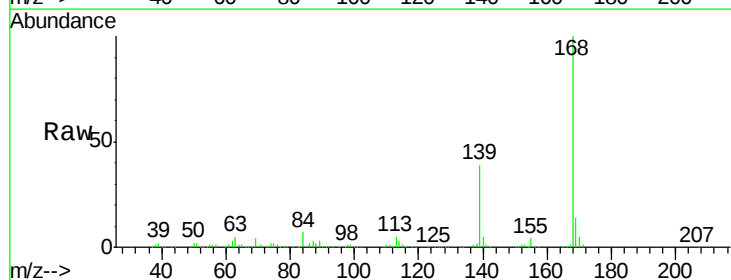
Tgt Ion:139 Resp: 129169

Ion Ratio Lower Upper

139 100

109 0.8 48.4 88.4#

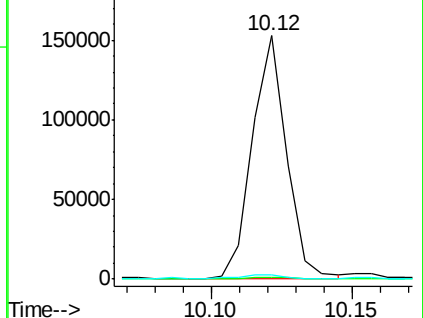
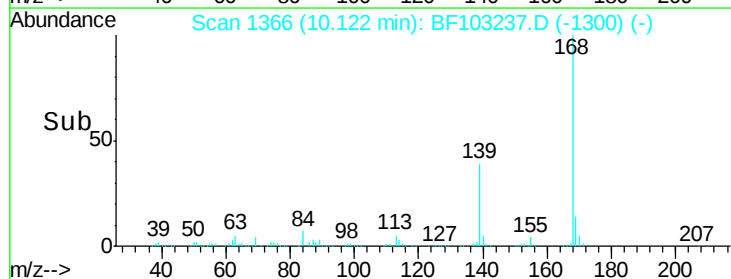
65 1.6 72.6 112.6#

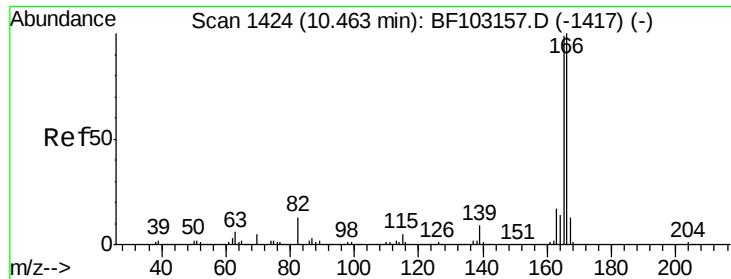


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1





#57

Fluorene

Concen: 29.66 ng

RT: 10.47 min Scan# 1425

Delta R.T. 0.01 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

Instrument :

BNA_F

ClientSampleId :

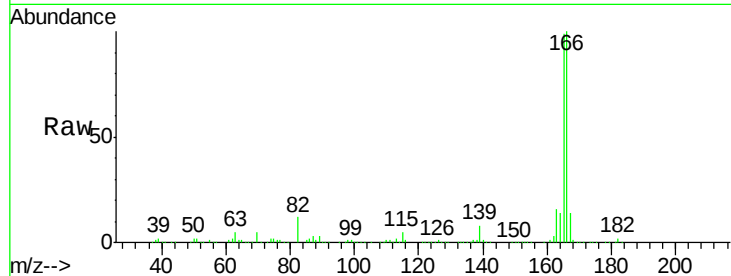
Tot Ion:166 Resp: 474930

Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.8	119.8
167	13.8	10.6	16.0

166 100

165 98.5 79.8 119.8

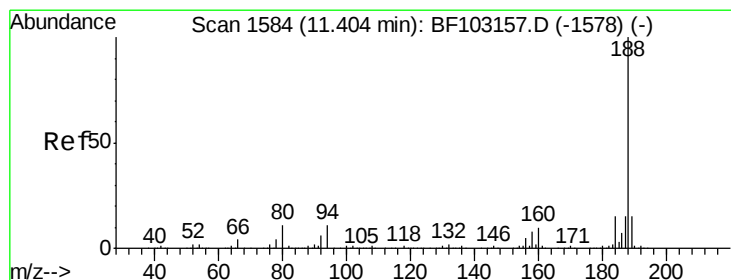
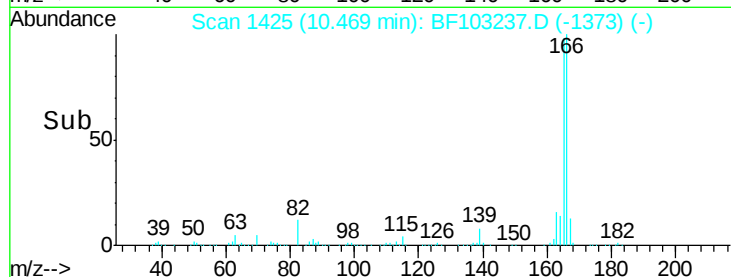
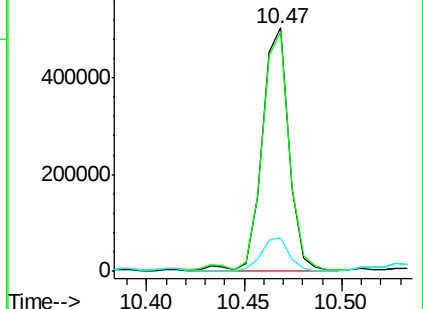
167 13.8 10.6 16.0



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.41 min Scan# 1585

Delta R.T. 0.01 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

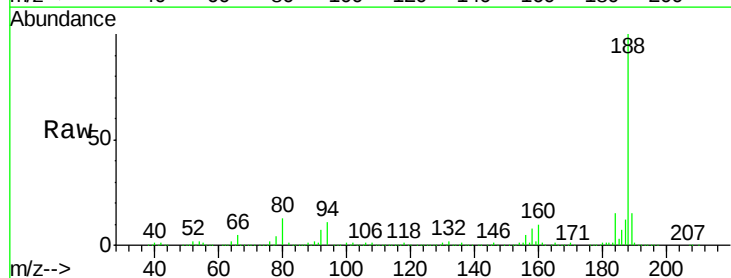
Tgt Ion:188 Resp: 354616

Ion	Ratio	Lower	Upper
188	100		
94	11.3	8.5	12.7
80	12.6	9.2	13.8

188 100

94 11.3 8.5 12.7

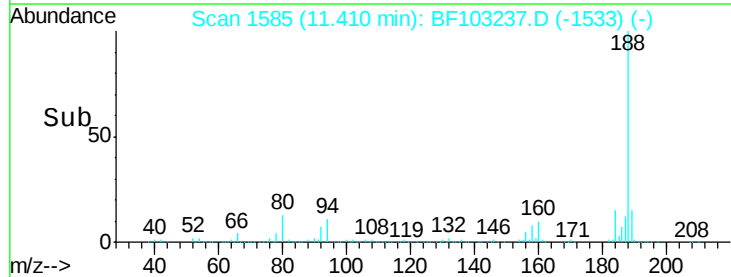
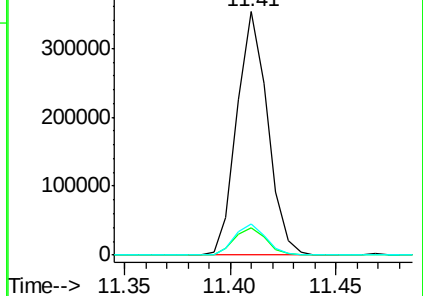
80 12.6 9.2 13.8

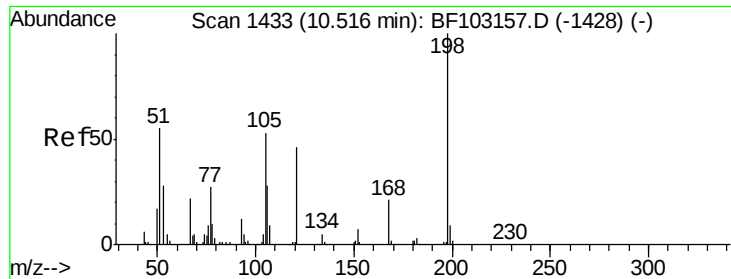


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

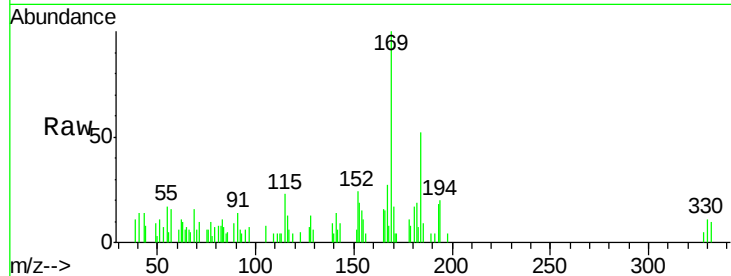




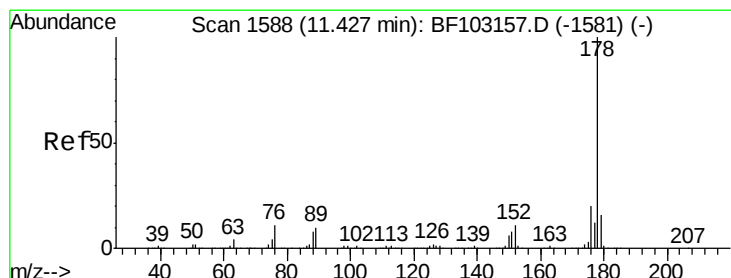
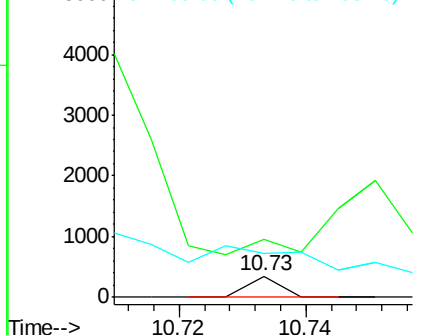
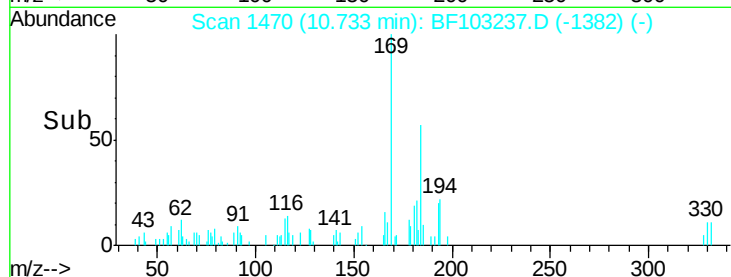
#64
4,6-Dinitro-2-methylphenol
Concen: 5.00 ng
RT: 10.73 min Scan# 1470
Delta R.T. 0.22 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

Instrument :
BNA_F
ClientSampled :

Tot Ion:198 Resp: 121
Ion Ratio Lower Upper
198 100
51 276.7 37.7 77.7#
105 209.0 36.3 76.3#

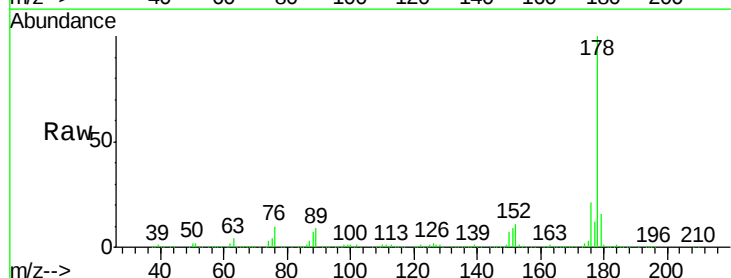


Abundance Ion 198.00 (197.70 to 198.70): E
Ion 51.00 (50.70 to 51.70): BF1
Ion 105.00 (104.70 to 105.70): E

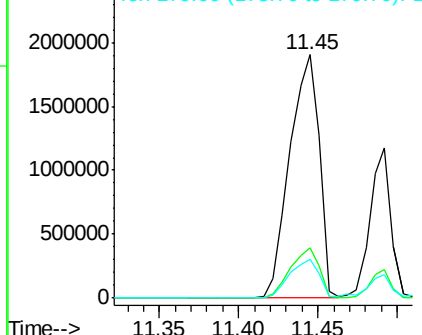
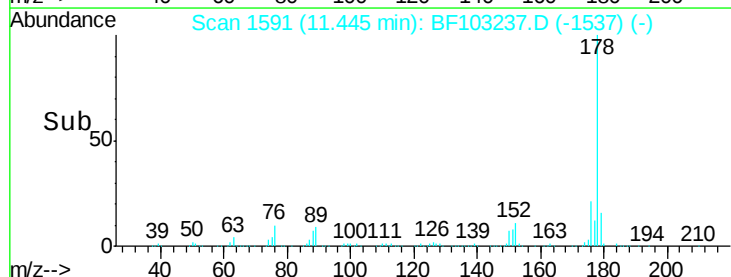


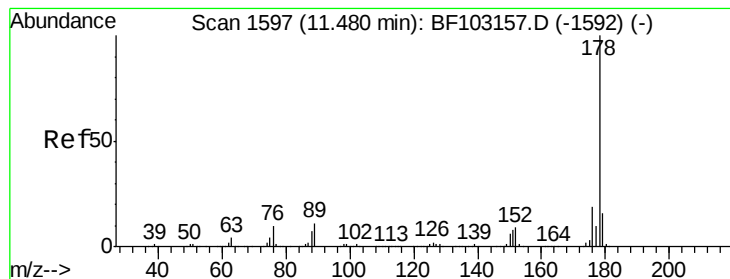
#70
Phenanthrene
Concen: 125.72 ng
RT: 11.45 min Scan# 1591
Delta R.T. 0.02 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

Tgt Ion:178 Resp: 2453541
Ion Ratio Lower Upper
178 100
176 20.5 15.8 23.8
179 15.8 13.0 19.6



Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 54.75 ng

RT: 11.49 min Scan# 1599

Delta R.T. 0.01 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

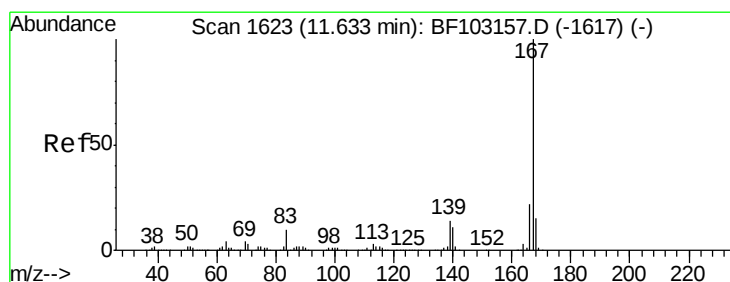
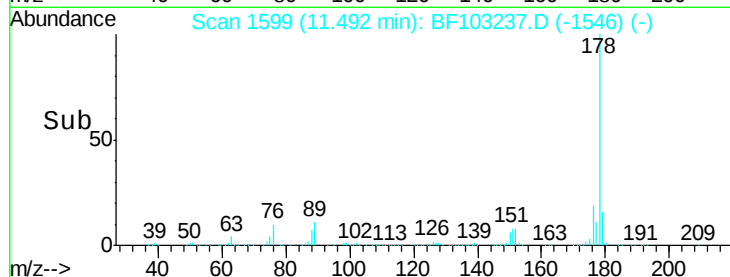
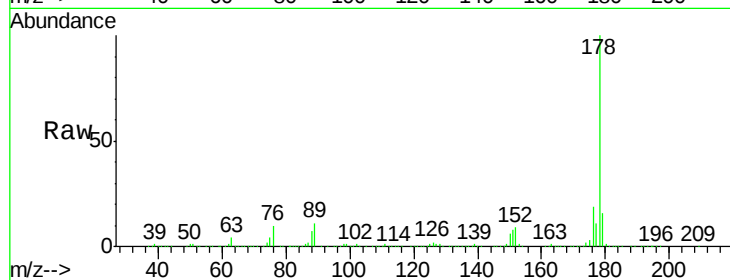
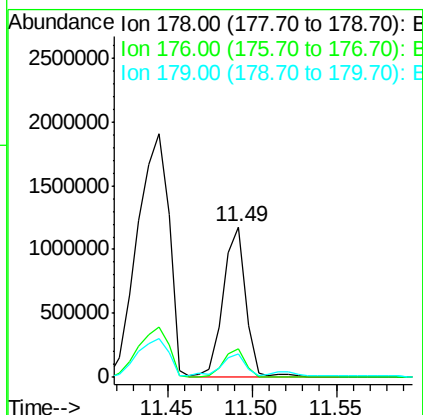
Instrument :

BNA_F

ClientSampleId :

Tot Ion:178 Resp: 1095672

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.9	12.6	19.0



#72

Carbazole

Concen: 8.96 ng

RT: 11.64 min Scan# 1624

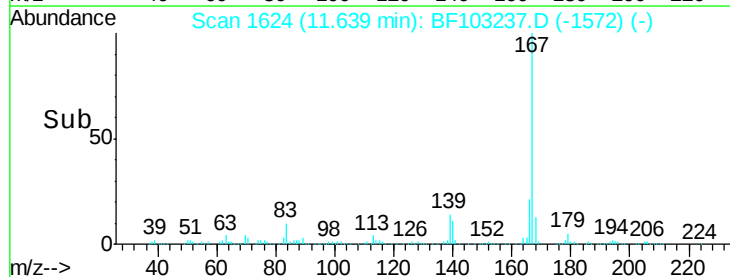
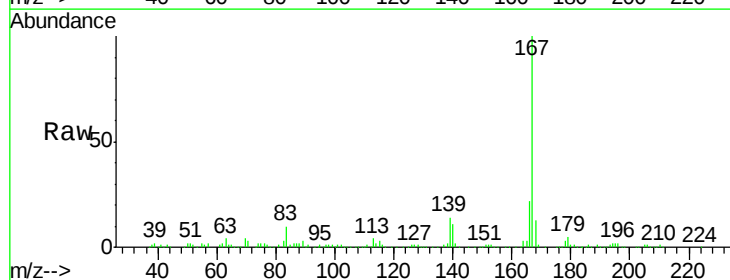
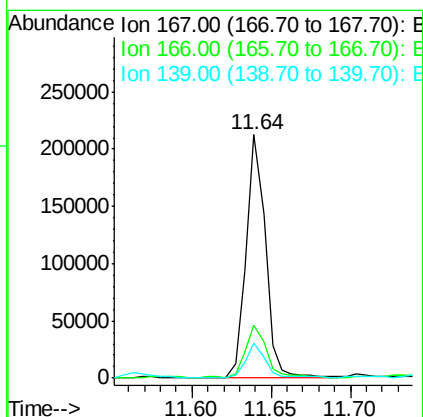
Delta R.T. 0.01 min

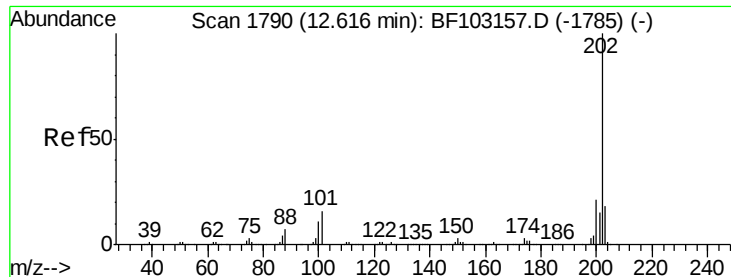
Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

Tgt Ion:167 Resp: 178509

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.6	26.4
139	14.1	10.9	16.3





#74

Fluoranthene

Concen: 132.86 ng

RT: 12.64 min Scan# 1795

Delta R.T. 0.03 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

Instrument :

BNA_F

ClientSampleId :

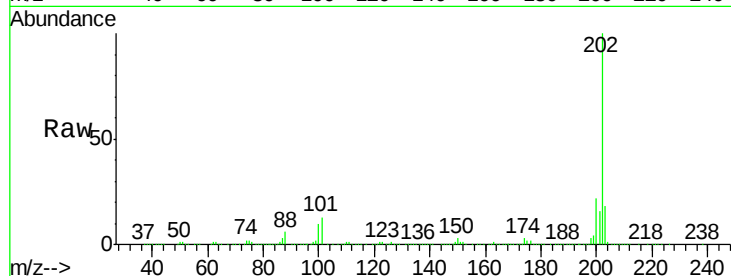
Tot Ion:202 Resp: 2605432

Ion Ratio Lower Upper

202 100

101 13.2 0.0 34.1

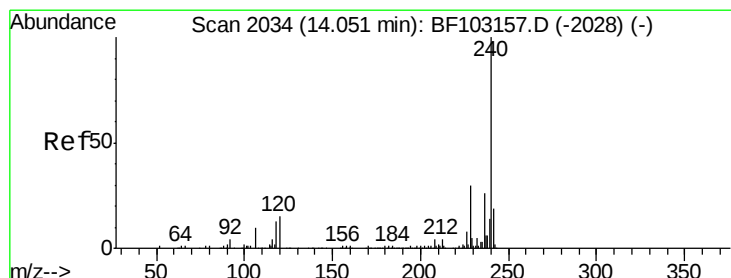
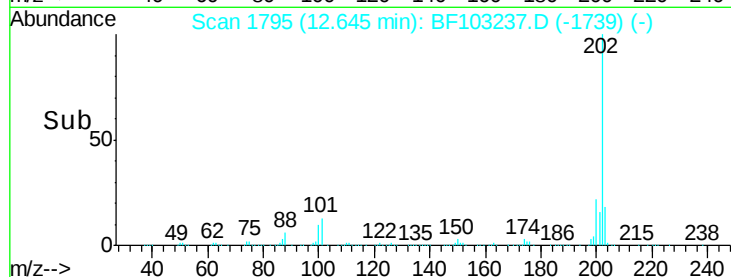
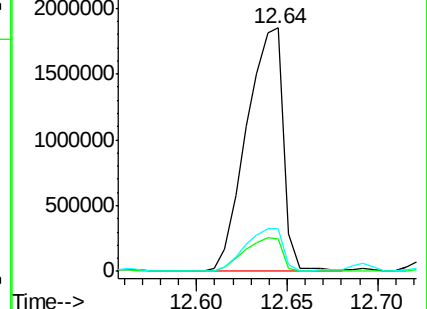
203 17.6 0.0 38.1



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: 20.00 ng

RT: 14.06 min Scan# 2036

Delta R.T. 0.01 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

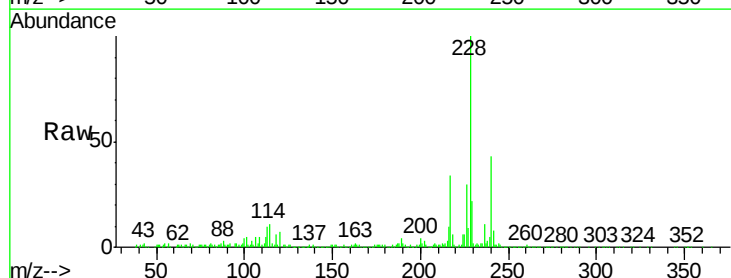
Tgt Ion:240 Resp: 190016

Ion Ratio Lower Upper

240 100

120 17.1 9.5 14.3#

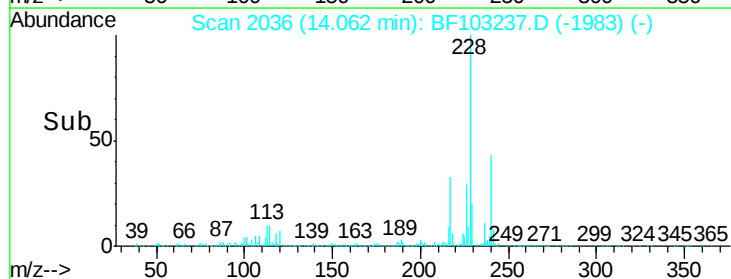
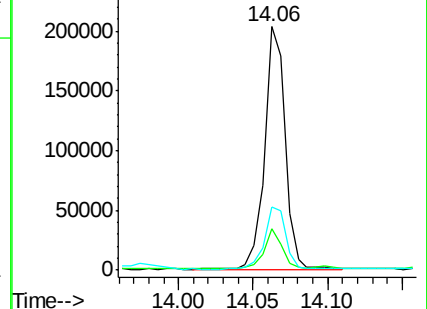
236 25.8 20.7 31.1

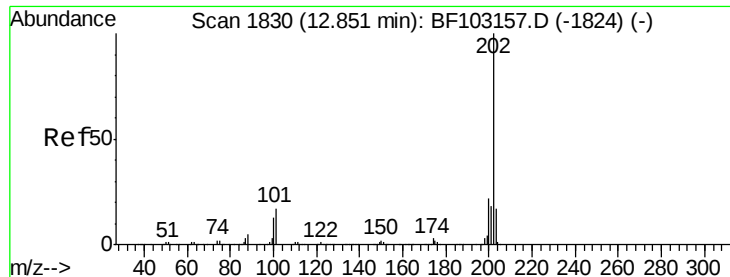


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 151.17 ng

RT: 12.87 min Scan# 1834

Delta R.T. 0.02 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

Instrument :

BNA_F

ClientSampleId :

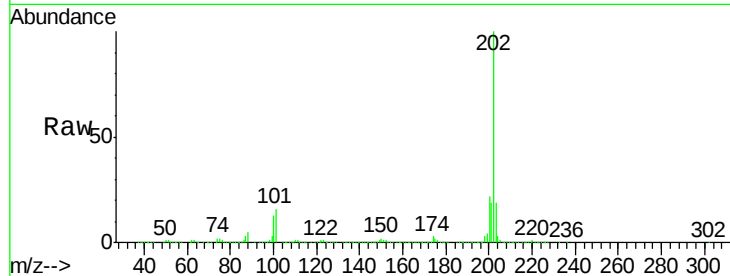
Tot Ion:202 Resp: 2239595

Ion Ratio Lower Upper

202 100

200 22.2 17.4 26.2

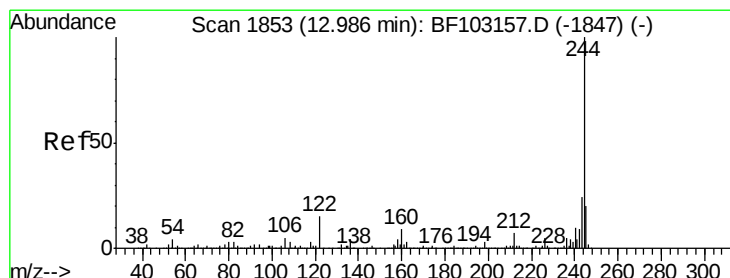
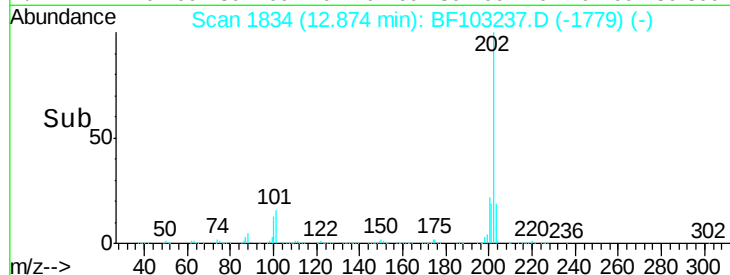
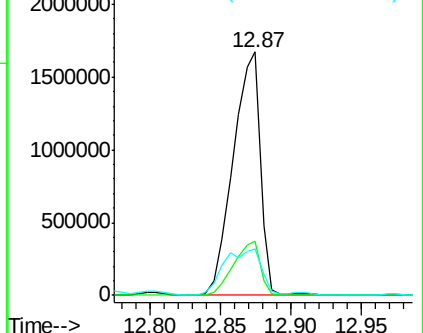
203 19.1 14.3 21.5



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: 22.85 ng

RT: 12.99 min Scan# 1853

Delta R.T. -0.00 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

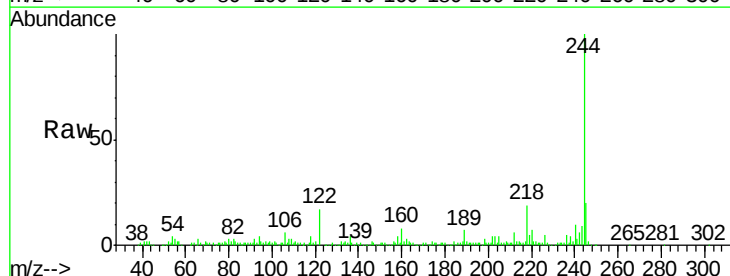
Tgt Ion:244 Resp: 180582

Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.0

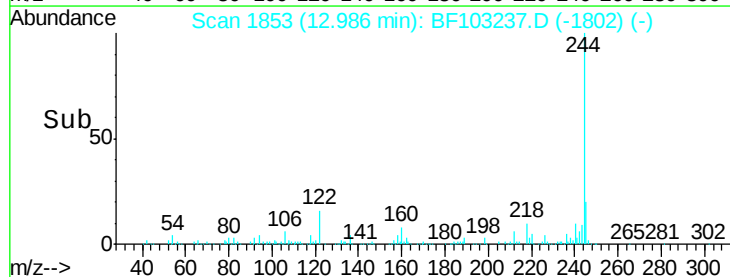
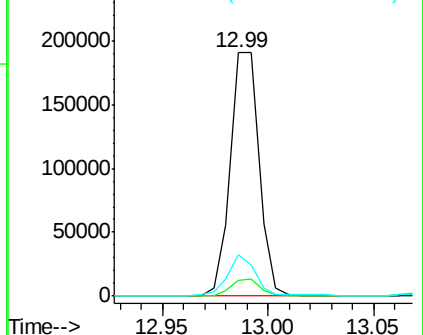
122 16.7 11.0 16.4#

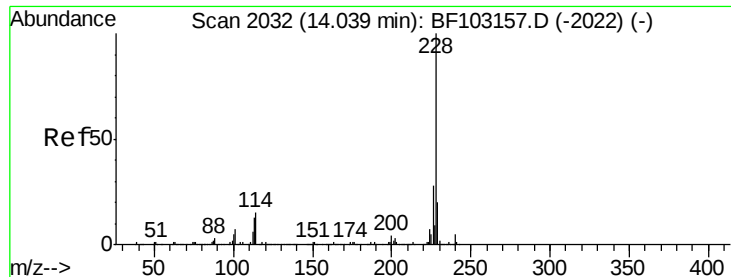


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 94.49 ng

RT: 14.06 min Scan# 2035

Delta R.T. 0.02 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

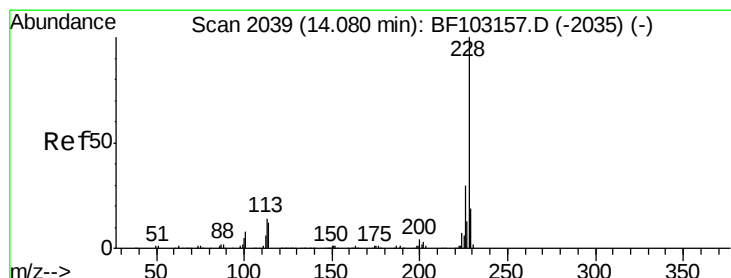
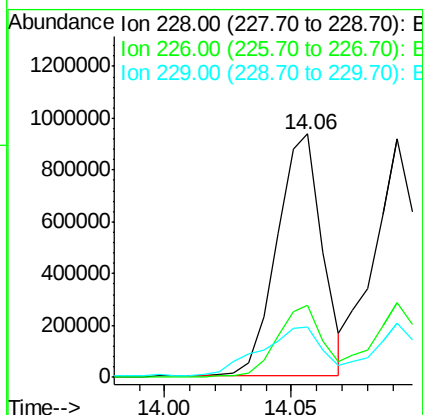
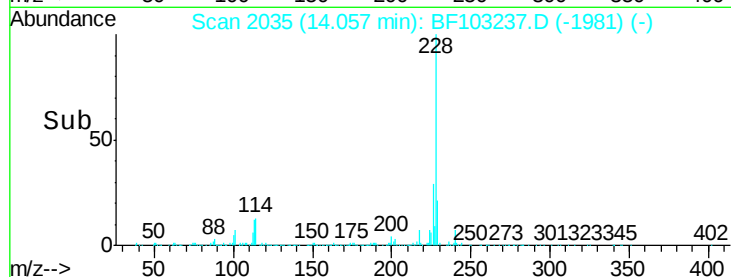
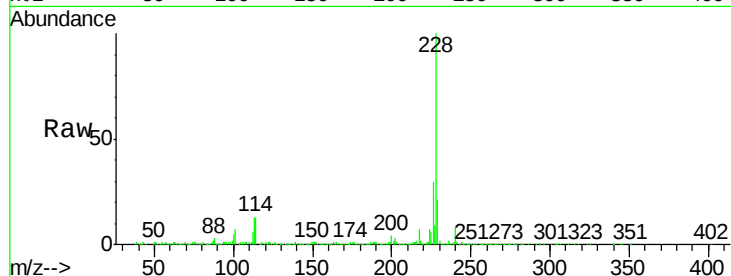
Instrument :

BNA_F

ClientSampleId :

Tot Ion:228 Resp: 1164954

Ion	Ratio	Lower	Upper
228	100		
226	29.7	22.6	33.8
229	20.9	15.8	23.6



#82

Chrysene

Concen: 84.96 ng

RT: 14.09 min Scan# 2041

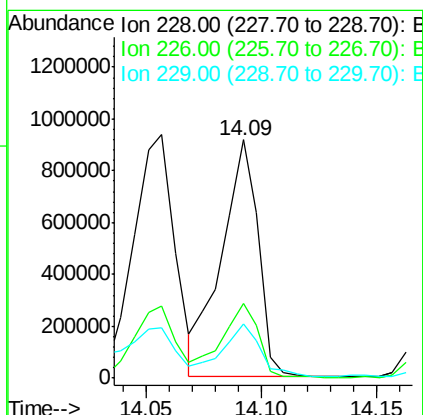
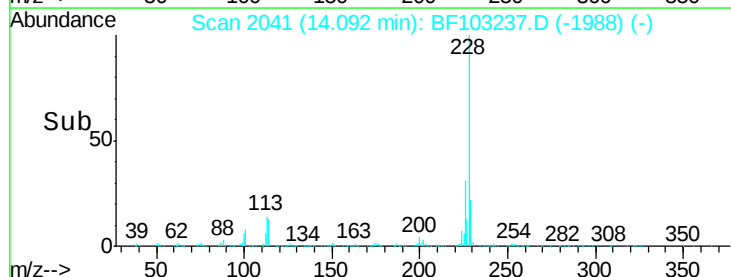
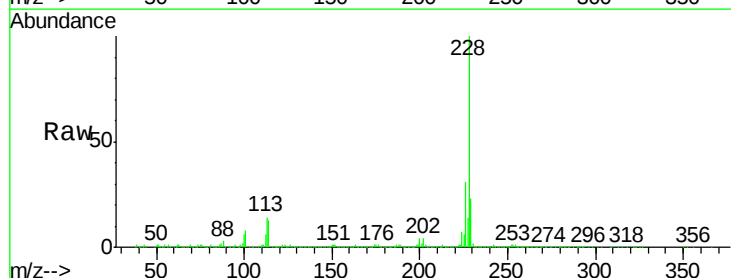
Delta R.T. 0.01 min

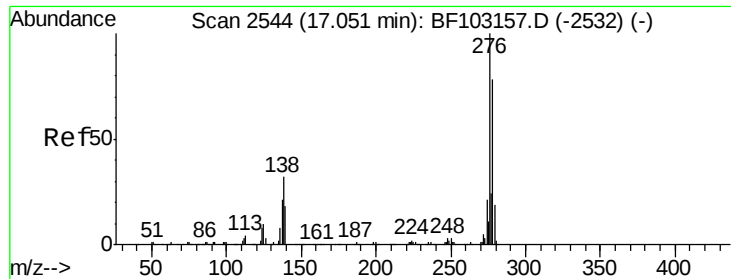
Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

Tgt Ion:228 Resp: 1017047

Ion	Ratio	Lower	Upper
228	100		
226	31.1	25.0	37.6
229	22.6	16.2	24.4

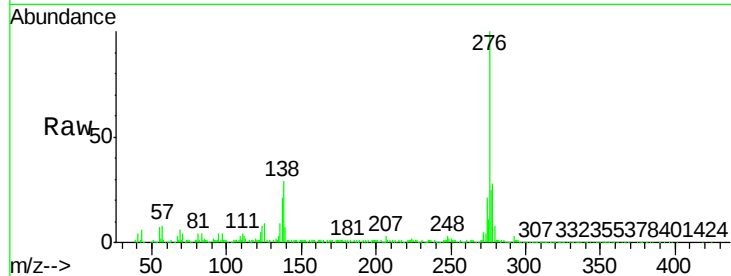




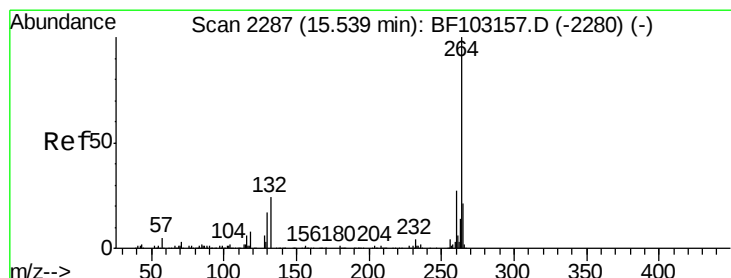
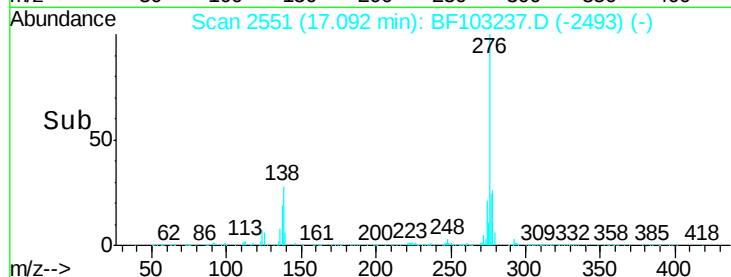
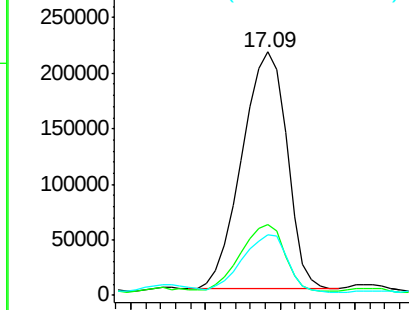
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 47.01 ng
 RT: 17.09 min Scan# 2551
 Delta R.T. 0.04 min
 Lab File: BF103237.D
 Acq: 27 Feb 2018 00:10

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	27.9	25.0	37.6
277	24.5	20.1	30.1

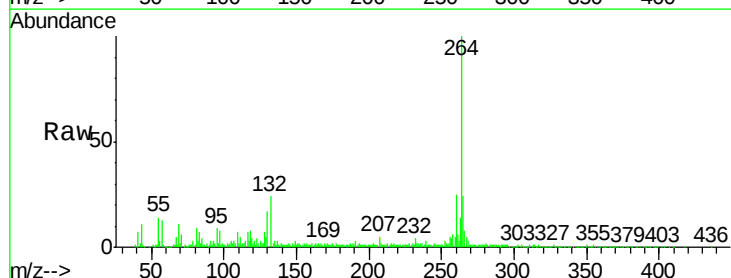


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

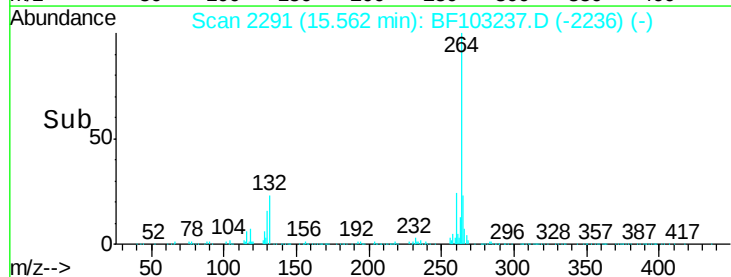
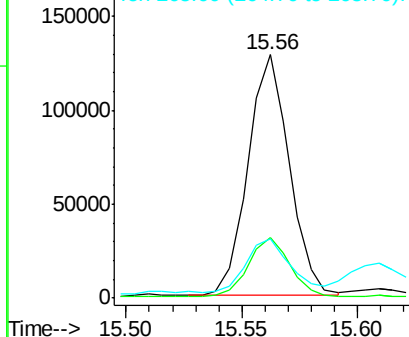


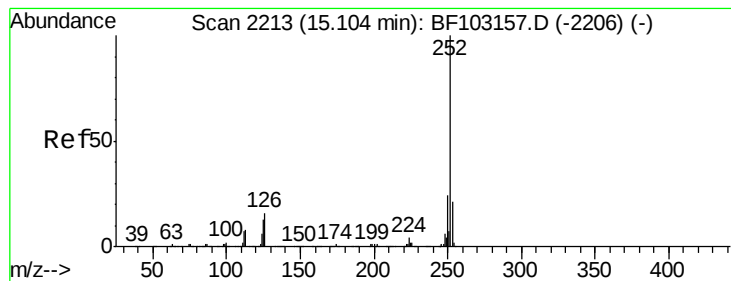
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.56 min Scan# 2291
 Delta R.T. 0.02 min
 Lab File: BF103237.D
 Acq: 27 Feb 2018 00:10

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.2	28.8
265	24.4	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: 135.98 ng

RT: 15.13 min Scan# 2217

Delta R.T. 0.02 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

Instrument :

BNA_F

ClientSampleId :

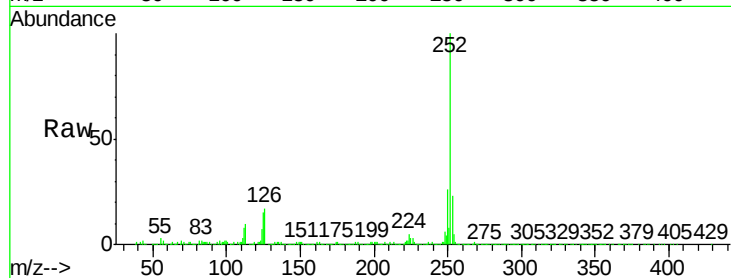
Tot Ion:252 Resp: 1439566

Ion Ratio Lower Upper

252 100

253 23.0 17.0 25.6

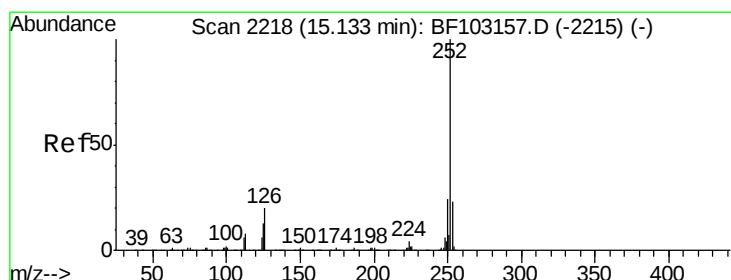
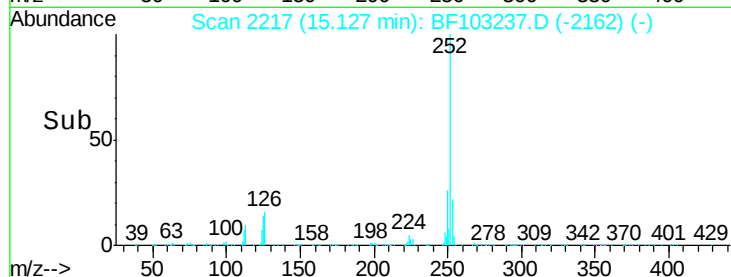
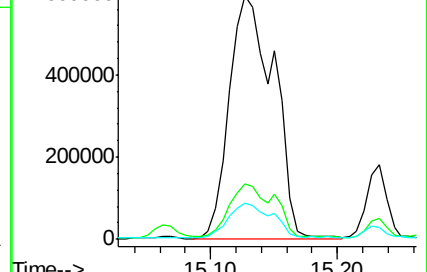
125 14.7 9.0 13.6#



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: 144.41 ng

RT: 15.13 min Scan# 2217

Delta R.T. -0.01 min

Lab File: BF103237.D

Acq: 27 Feb 2018 00:10

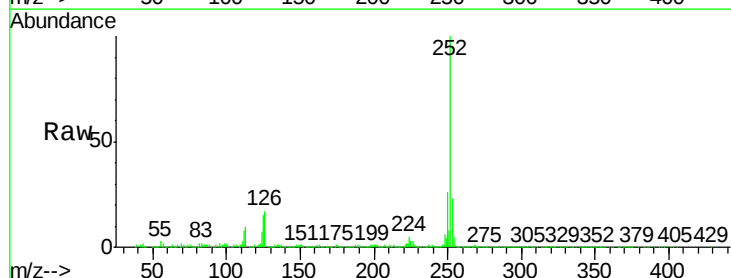
Tgt Ion:252 Resp: 1439566

Ion Ratio Lower Upper

252 100

253 23.0 17.9 26.9

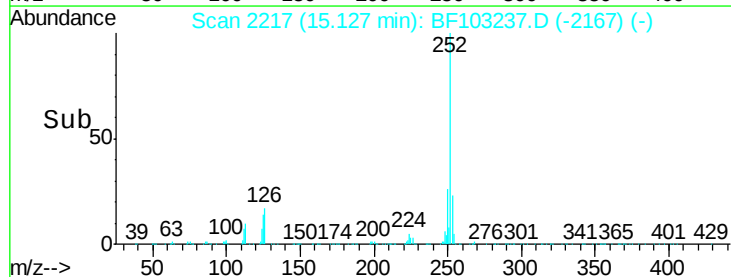
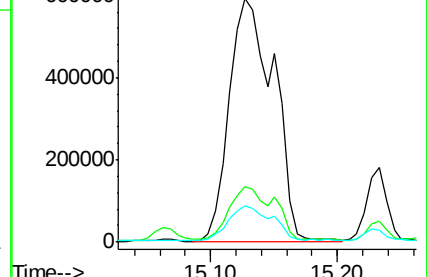
125 14.7 10.2 15.2

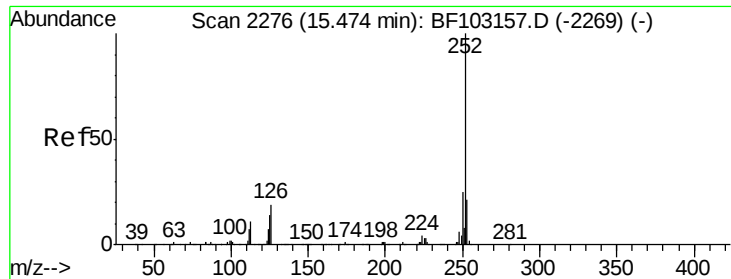


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

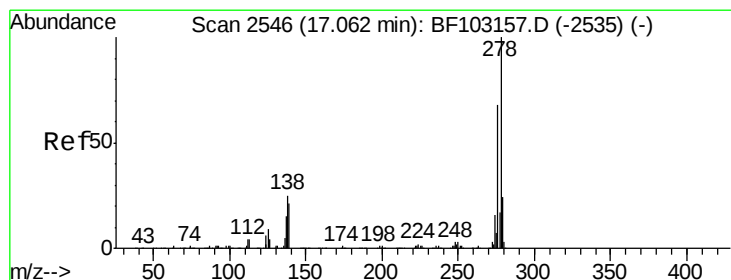
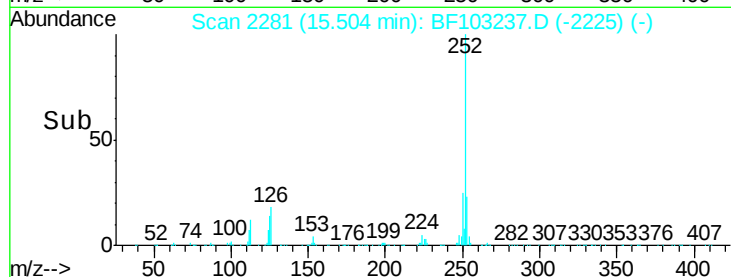
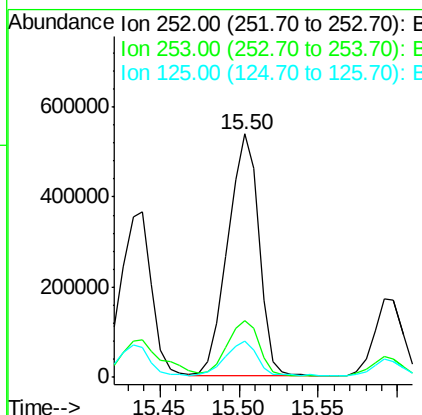
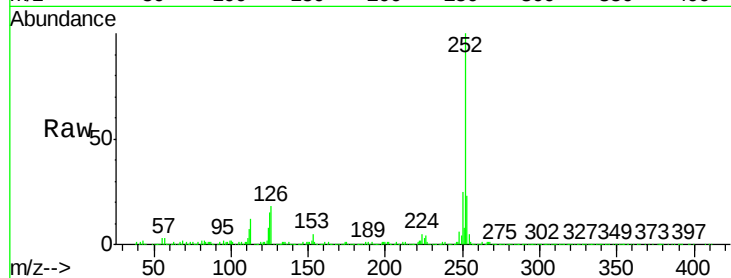




#89
Benzo(a)pyrene
Concen: 77.58 ng
RT: 15.50 min Scan# 2281
Delta R.T. 0.03 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

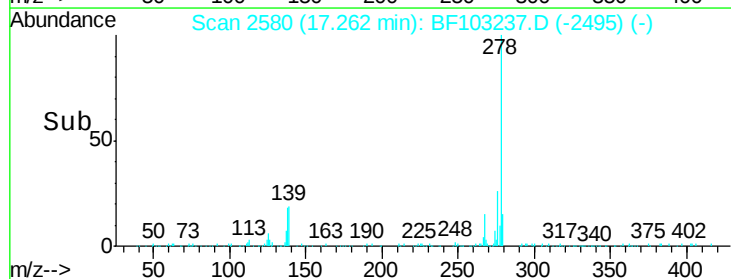
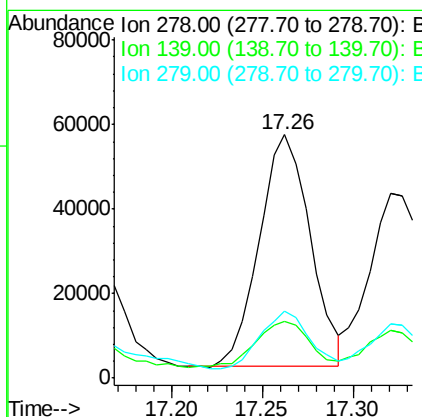
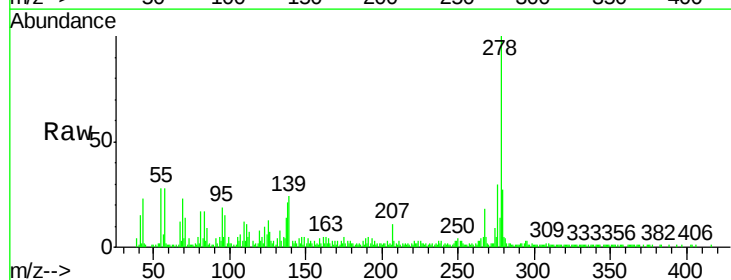
Instrument :
BNA_F
ClientSampleId :

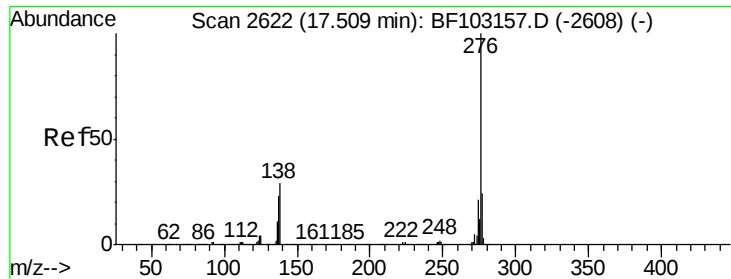
Tot Ion:252 Resp: 733378
Ion Ratio Lower Upper
252 100
253 23.4 17.1 25.7
125 14.8 9.8 14.6#



#90
Dibenzo(a,h)anthracene
Concen: 14.77 ng
RT: 17.26 min Scan# 2580
Delta R.T. 0.20 min
Lab File: BF103237.D
Acq: 27 Feb 2018 00:10

Tgt Ion:278 Resp: 107876
Ion Ratio Lower Upper
278 100
139 23.5 15.9 23.9
279 27.4 19.0 28.4





#91
 Benzo(a,h,i)perylene
 Concen: 59.50 ng
 RT: 17.56 min Scan# 2630
 Delta R.T. 0.05 min
 Lab File: BF103237.D
 Acq: 27 Feb 2018 00:10

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	26.0	17.9	26.9
138	29.3	21.8	32.8

