

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040318\
 Data File : BF104220.D
 Acq On : 4 Apr 2018 11:05
 Operator : JU/SJ
 Sample : J2182-19 2X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 04 11:43:29 2018
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 03 15:22:43 2018
 Response via : Initial Calibration

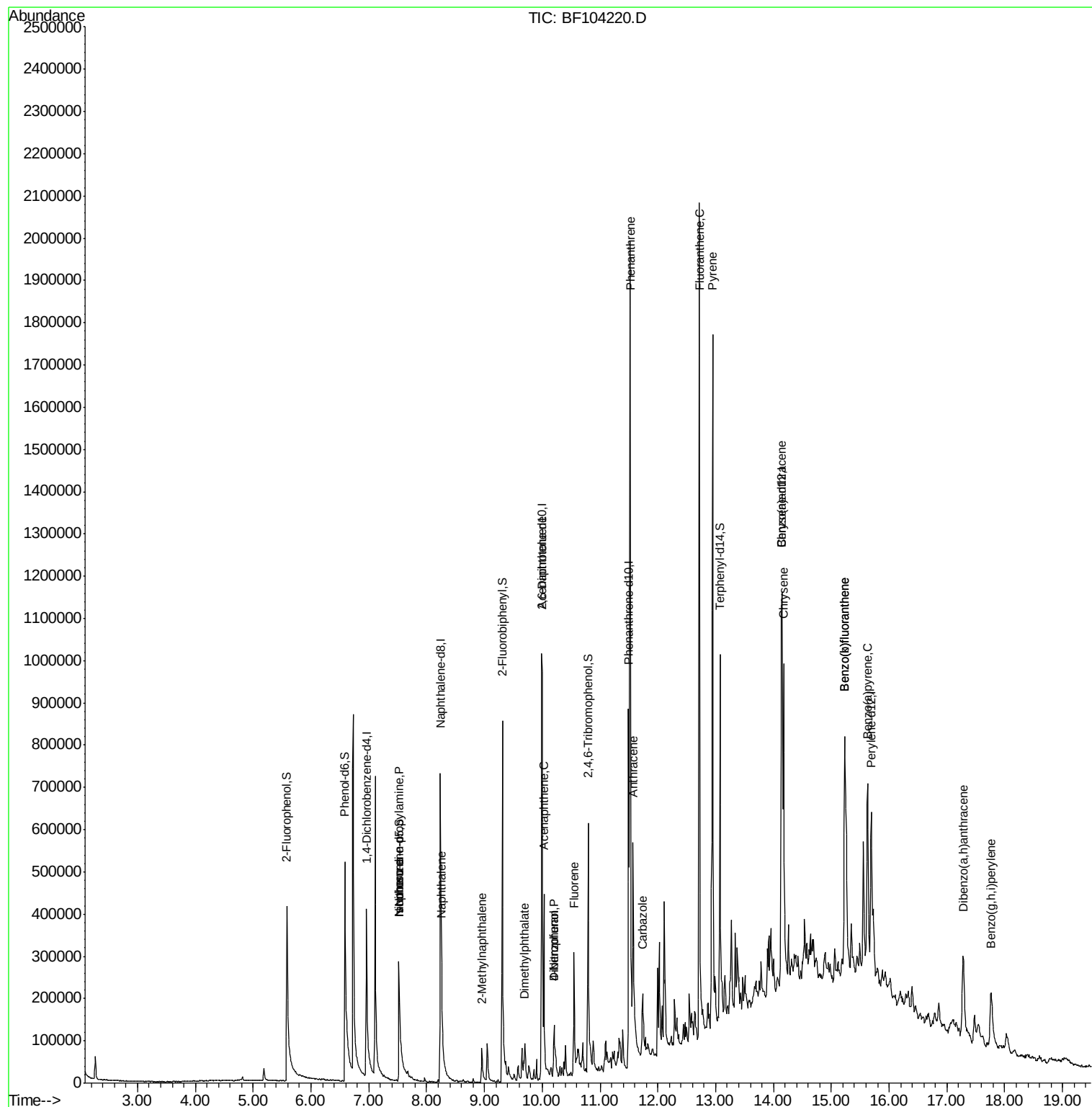
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.96	152	121202	20.00	ng	0.00
21) Naphthalene-d8	8.24	136	543191	20.00	ng	0.00
38) Acenaphthene-d10	9.99	164	255230	20.00	ng	-0.01
63) Phenanthrene-d10	11.49	188	423722	20.00	ng	0.00
75) Chrysene-d12	14.15	240	241018	20.00	ng	0.00
86) Perylene-d12	15.69	264	249954	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	305226	40.16	ng	0.00
7) Phenol-d6	6.59	99	419432	44.86	ng	-0.01
23) Nitrobenzene-d5	7.52	82	263614	29.68	ng	-0.01
41) 2,4,6-Tribromophenol	10.79	330	111053	39.08	ng	0.00
44) 2-Fluorobiphenyl	9.31	172	426047	26.32	ng	0.00
78) Terphenyl-d14	13.07	244	336001	32.19	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propylamine	7.52	70	29854	5.380	ng	# 77
25) Isophorone	7.52	82	263614	16.105	ng	# 64
31) Naphthalene	8.26	128	148767	5.606	ng	97
37) 2-Methylnaphthalene	8.95	142	46649	2.669	ng	99
49) Dimethylphthalate	9.70	163	45726	2.269	ng	99
50) 2,6-Dinitrotoluene	9.99	165	33633	7.758	ng	# 25
51) Acenaphthene	10.03	154	101464	6.700	ng	98
54) Dibenzofuran	10.20	168	95451	4.316	ng	97
55) 4-Nitrophenol	10.20	139	33750	11.294	ng	# 11
57) Fluorene	10.55	166	120870	6.626	ng	100
70) Phenanthrene	11.52	178	923010	40.235	ng	98
71) Anthracene	11.57	178	341816	14.265	ng	97
72) Carbazole	11.73	167	133808	5.851	ng	99
74) Fluoranthene	12.72	202	1007479	41.316	ng	98
77) Pyrene	12.95	202	808771	46.680	ng	99
80) Benzo(a)anthracene	14.14	228	388494	25.761	ng	98
82) Chrysene	14.17	228	316722	21.442	ng	97
87) Benzo(b)fluoranthene	15.23	252	562321	36.966	ng	95
88) Benzo(k)fluoranthene	15.23	252	562321	39.242	ng	98
89) Benzo(a)pyrene	15.63	252	300673	21.329	ng	95
90) Dibenzo(a,h)anthracene	17.28	278	36296	2.785	ng	95
91) Benzo(g,h,i)perylene	17.76	276	160967	12.330	ng	# 93

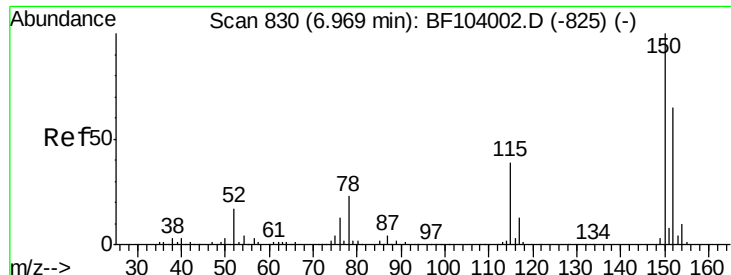
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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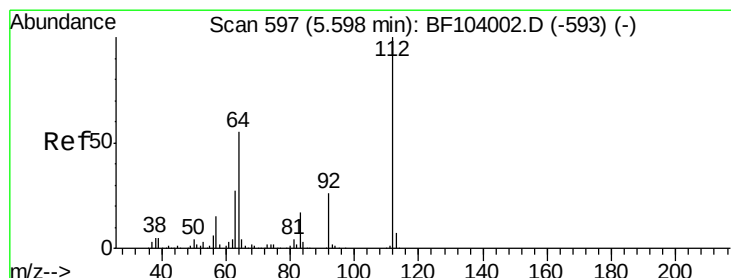
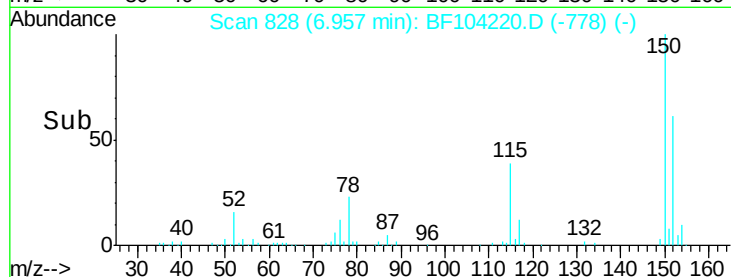
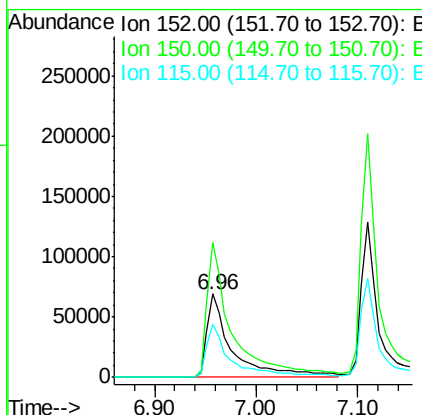
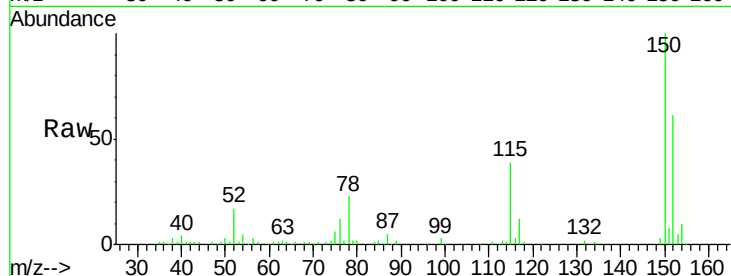


#1

1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.96 min Scan# 828
 Delta R.T. -0.01 min
 Lab File: BF104220.D
 Acq: 4 Apr 2018 11:05

Instrument :
 BNA_F
 ClientSampleId :

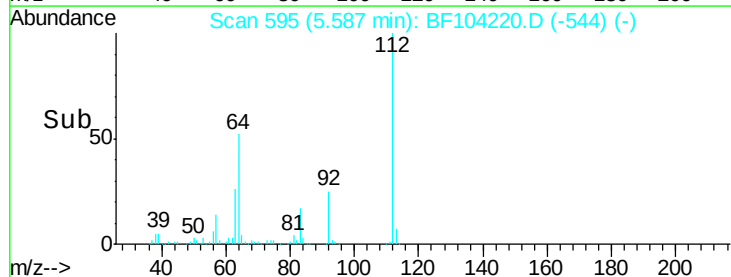
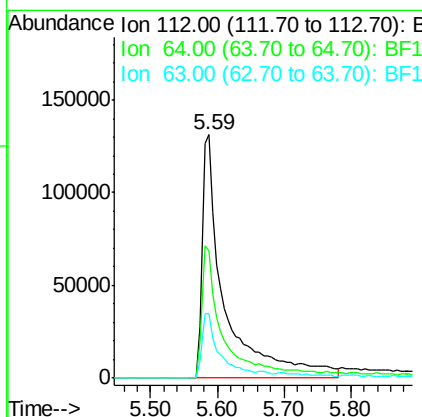
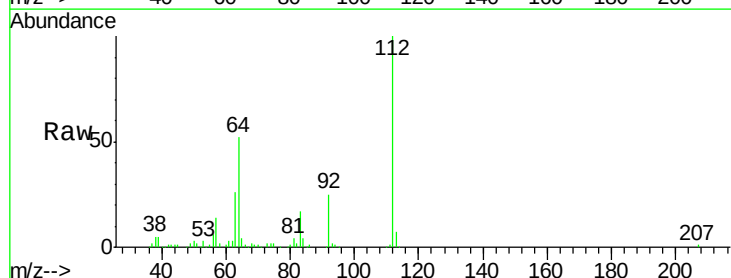
Tot Ion	Ratio	Lower	Upper
152	100		
150	162.7	124.6	186.8
115	64.1	50.1	75.1

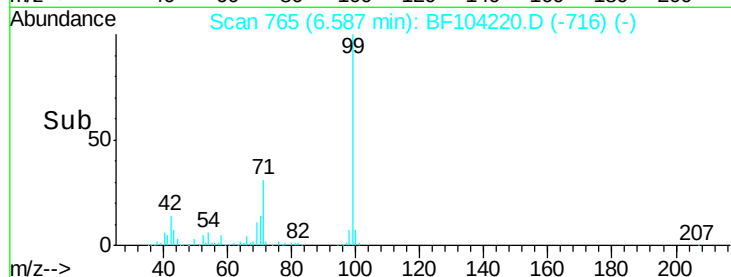
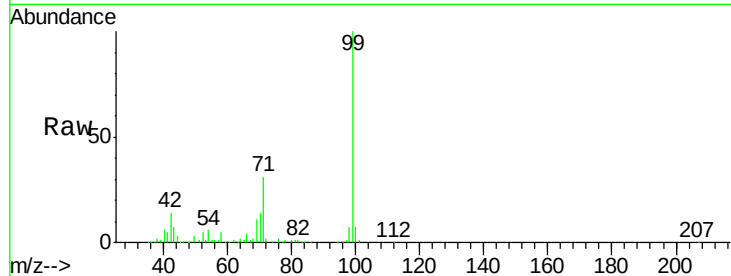
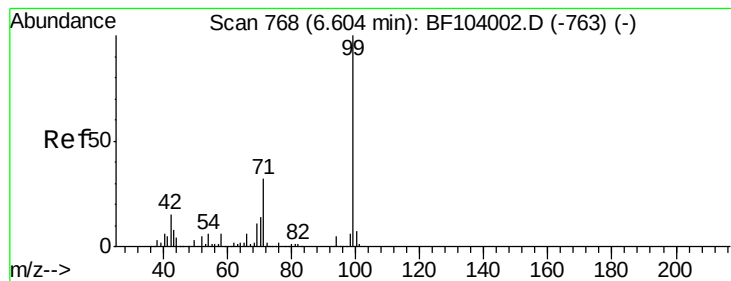


#5

2-Fluorophenol
 Concen: 40.161 ng
 RT: 5.59 min Scan# 595
 Delta R.T. 0.00 min
 Lab File: BF104220.D
 Acq: 4 Apr 2018 11:05

Tgt Ion	Ratio	Lower	Upper
112	100		
64	52.1	47.9	71.9
63	26.4	23.7	35.5





#7

Phenol-d6

Concen: 44.857 ng

RT: 6.59 min Scan# 765

Delta R.T. -0.01 min

Lab File: BF104220.D

Acq: 4 Apr 2018 11:05

Instrument :

BNA_F

ClientSampleId :

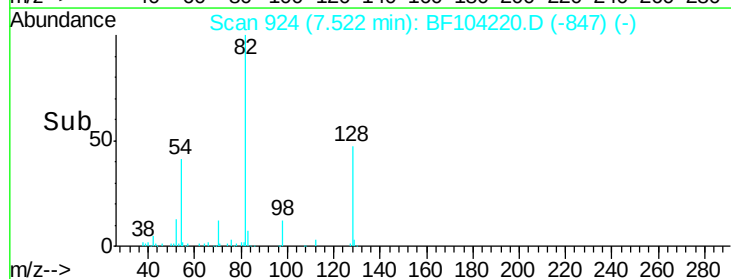
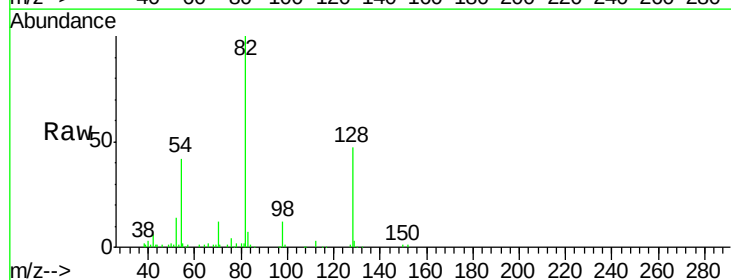
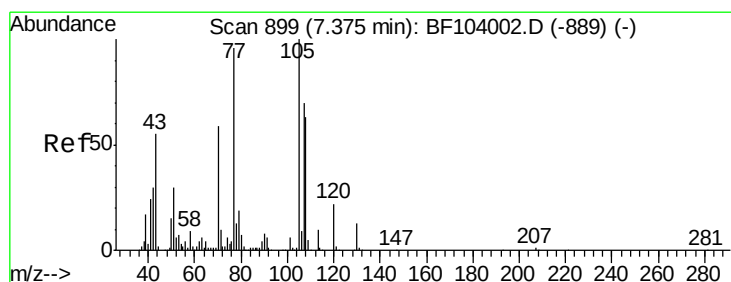
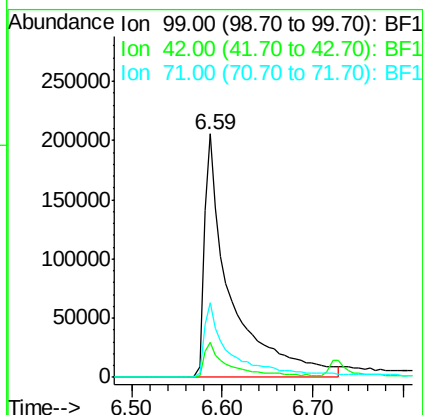
Tot Ion: 99 Resp: 419432

Ion Ratio Lower Upper

99 100

42 14.2 14.5 21.7#

71 30.8 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 5.380 ng

RT: 7.52 min Scan# 924

Delta R.T. 0.15 min

Lab File: BF104220.D

Acq: 4 Apr 2018 11:05

Tgt Ion: 70 Resp: 29854

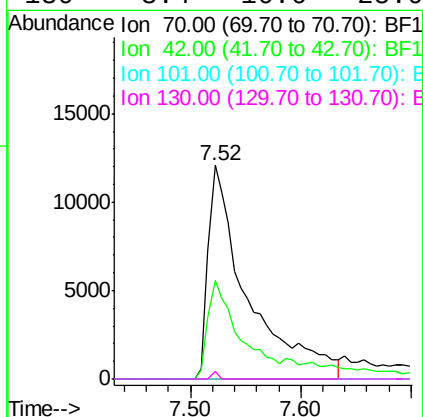
Ion Ratio Lower Upper

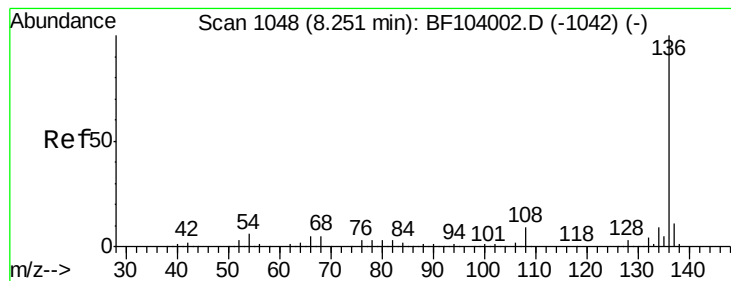
70 100

42 45.9 47.5 71.3#

101 0.0 7.4 11.2#

130 3.4 16.6 25.0#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.24 min Scan# 1046

Delta R.T. -0.01 min

Lab File: BF104220.D

Acq: 4 Apr 2018 11:05

Instrument :

BNA_F

ClientSampled :

Tot Ion:136 Resp: 543191

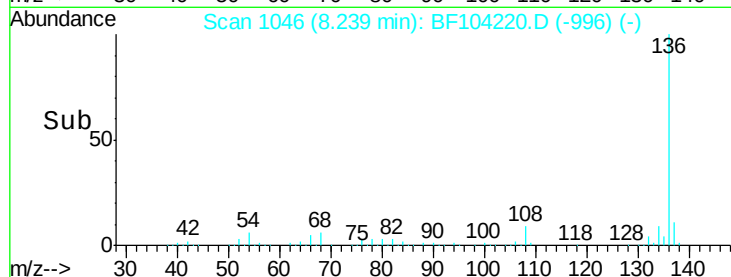
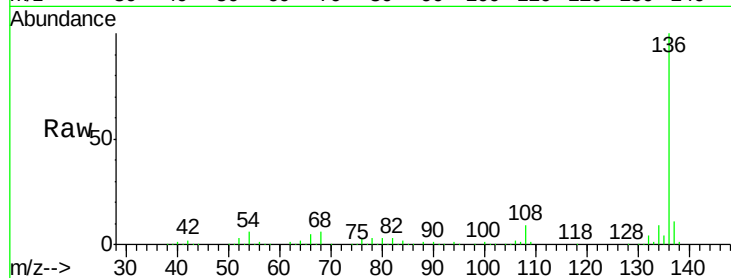
Ion Ratio Lower Upper

136 100

137 10.6 8.9 13.3

54 6.2 6.6 9.8#

68 6.0 5.0 7.4

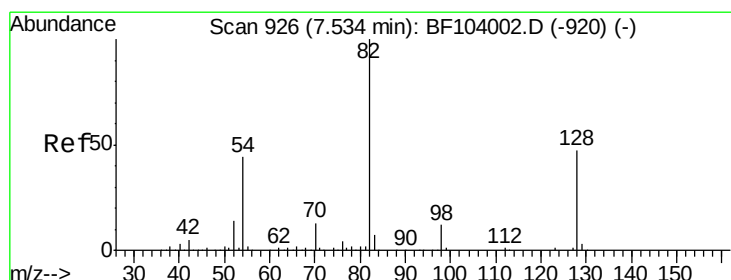
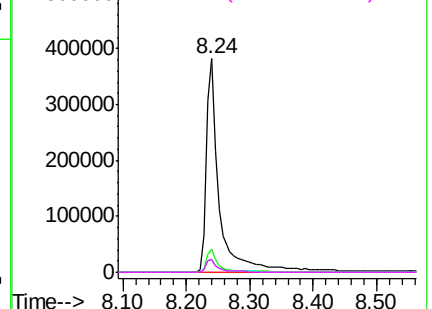


Abundance Ion 136.00 (135.70 to 136.70): E

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: 29.679 ng

RT: 7.52 min Scan# 924

Delta R.T. -0.01 min

Lab File: BF104220.D

Acq: 4 Apr 2018 11:05

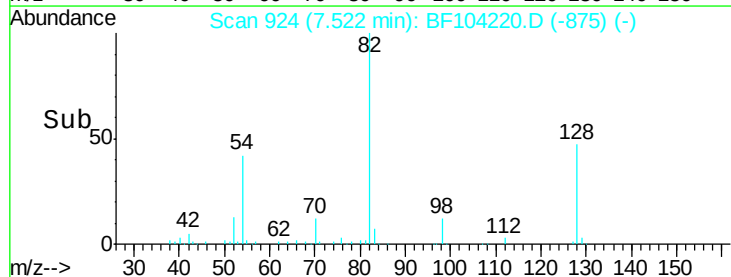
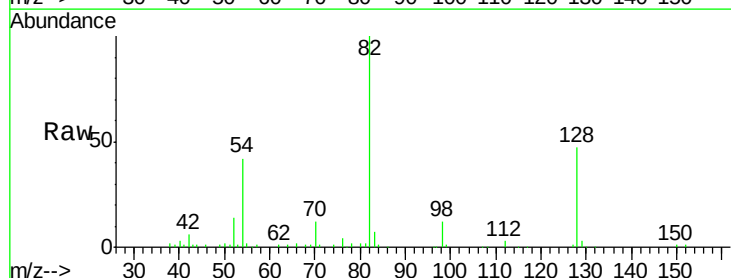
Tgt Ion: 82 Resp: 263614

Ion Ratio Lower Upper

82 100

128 46.9 36.1 54.1

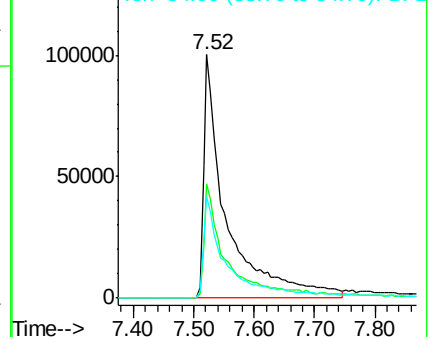
54 41.6 41.4 62.2

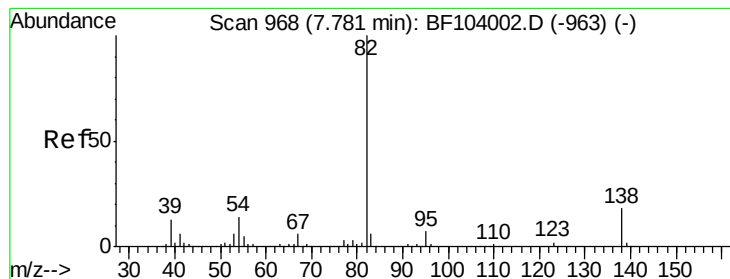


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 16.105 ng

RT: 7.52 min Scan# 924

Delta R.T. -0.26 min

Lab File: BF104220.D

Acq: 4 Apr 2018 11:05

Instrument :

BNA_F

ClientSampled :

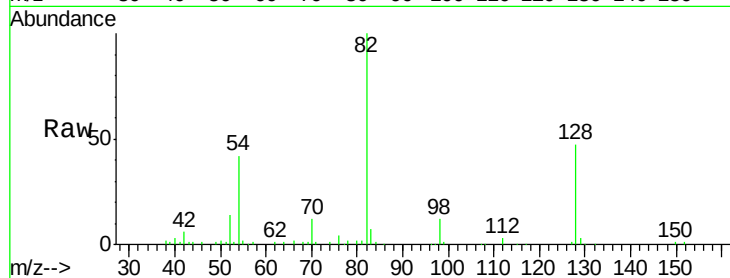
Tot Ion: 82 Resp: 263614

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

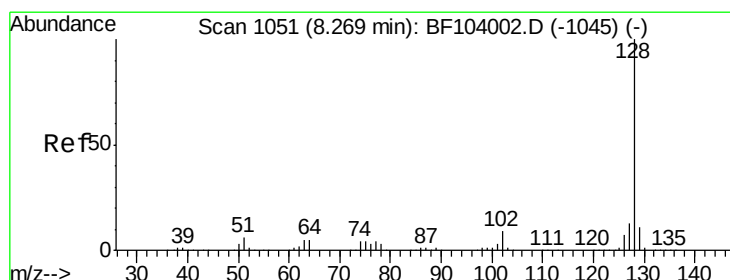
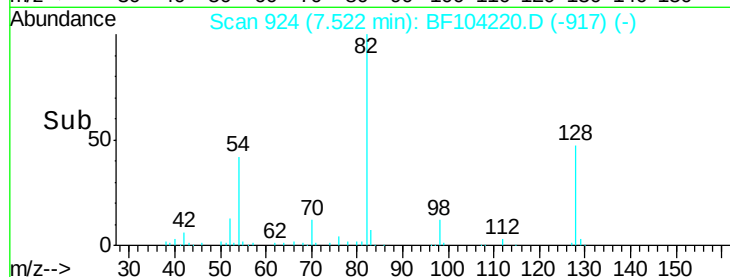
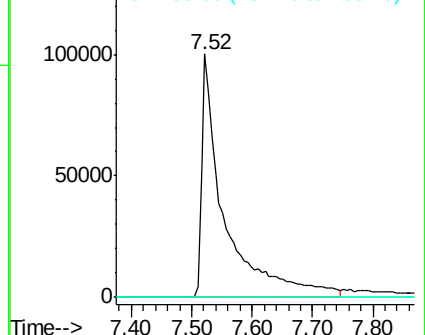
138 0.0 14.9 22.3#



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: 5.606 ng

RT: 8.26 min Scan# 1050

Delta R.T. -0.01 min

Lab File: BF104220.D

Acq: 4 Apr 2018 11:05

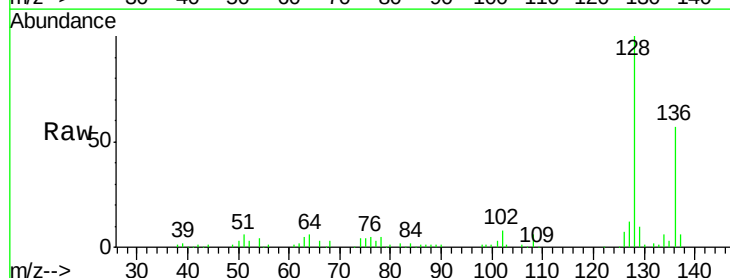
Tgt Ion: 128 Resp: 148767

Ion Ratio Lower Upper

128 100

129 10.4 8.8 13.2

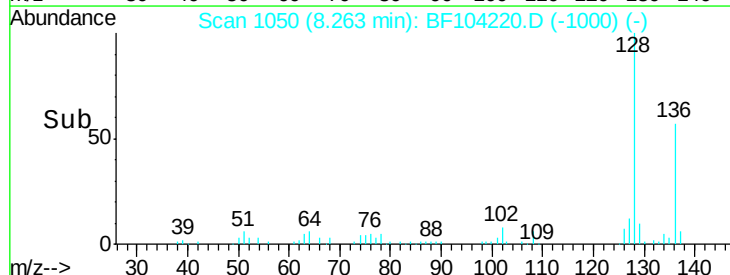
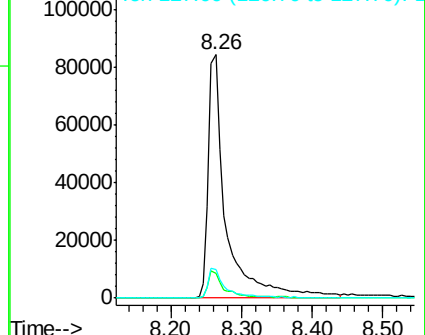
127 11.9 10.9 16.3

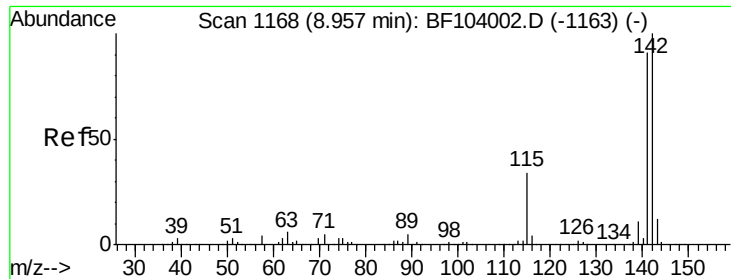


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

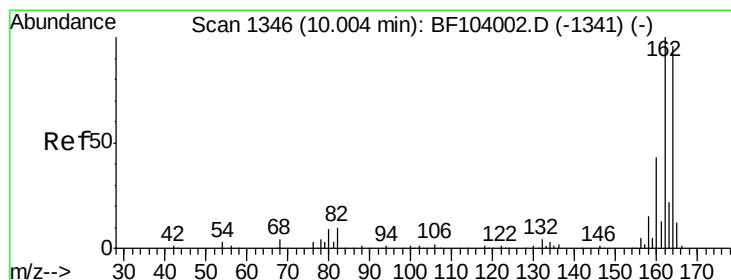
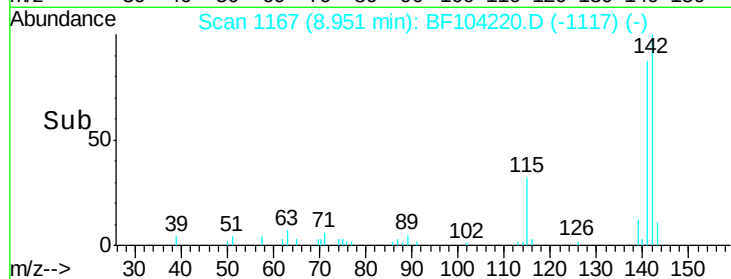
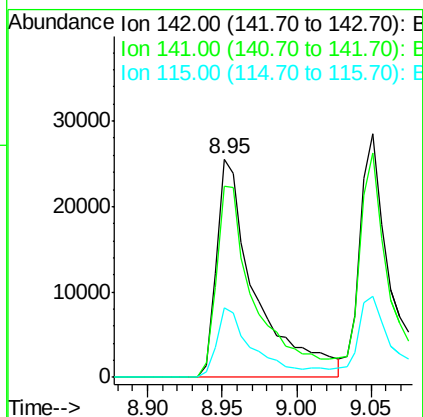
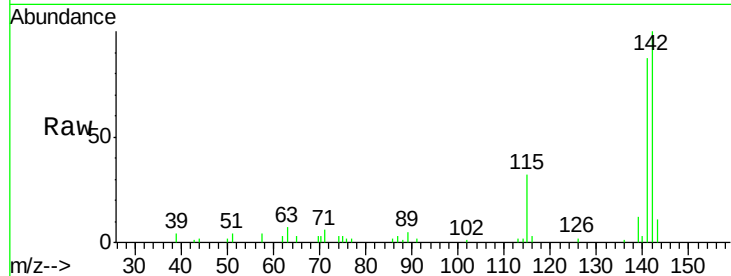




#37
2-Methylnaphthalene
Concen: 2.669 ng
RT: 8.95 min Scan# 1167
Delta R.T. -0.01 min
Lab File: BF104220.D
Acq: 4 Apr 2018 11:05

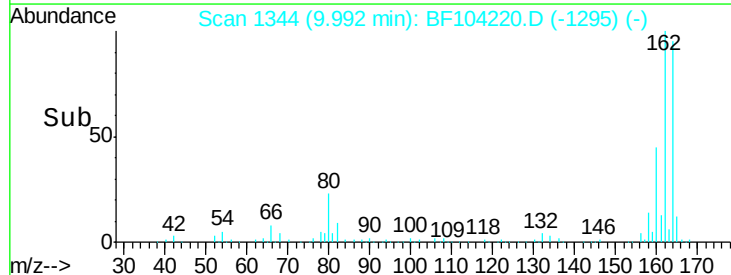
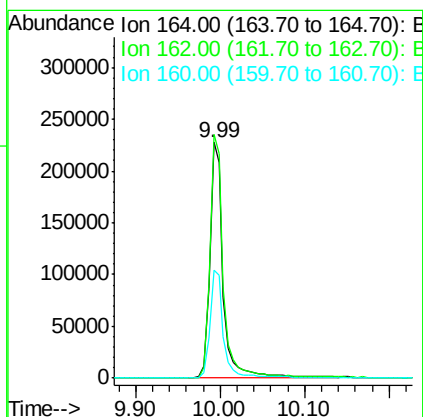
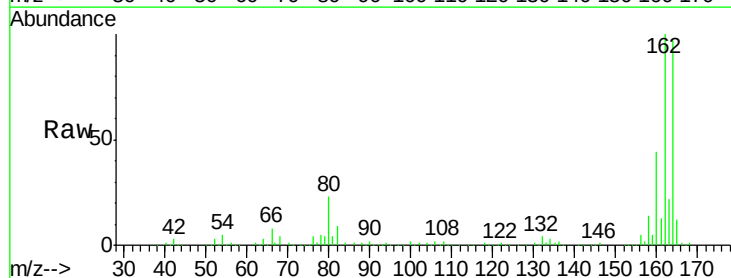
Instrument :
BNA_F
ClientSampleId :

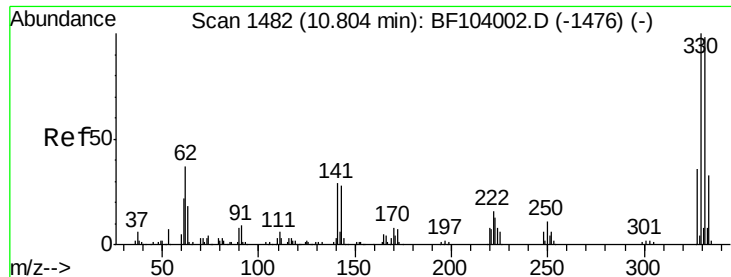
Tot Ion:142 Resp: 46649
Ion Ratio Lower Upper
142 100
141 87.5 70.8 106.2
115 32.0 26.1 39.1



#38
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.99 min Scan# 1344
Delta R.T. -0.01 min
Lab File: BF104220.D
Acq: 4 Apr 2018 11:05

Tgt Ion:164 Resp: 255230
Ion Ratio Lower Upper
164 100
162 103.4 86.1 129.1
160 46.0 38.3 57.5





#41

2,4,6-Tribromophenol

Concen: 39.076 ng

RT: 10.79 min Scan# 1480

Delta R.T. -0.01 min

Lab File: BF104220.D

Acq: 4 Apr 2018 11:05

Instrument :

BNA_F

ClientSampled :

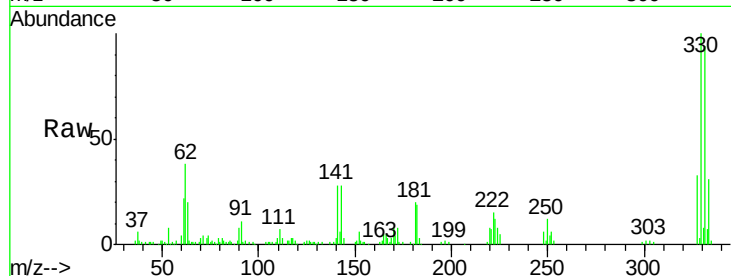
Tot Ion:330 Resp: 111053

Ion Ratio Lower Upper

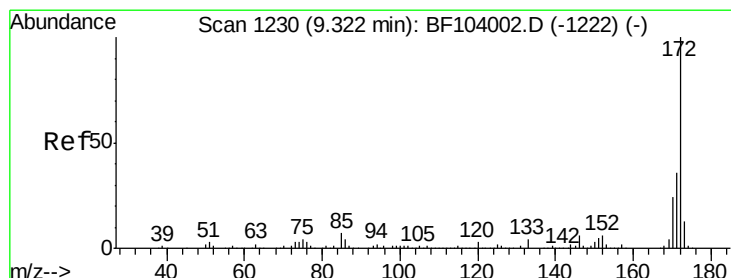
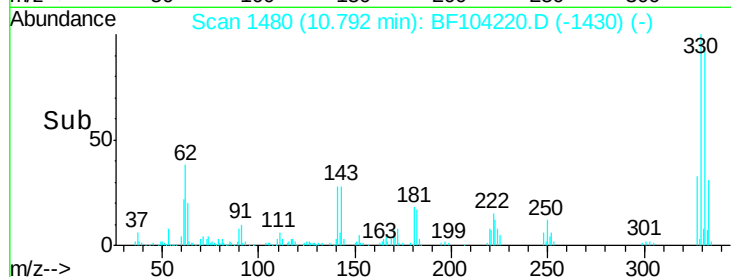
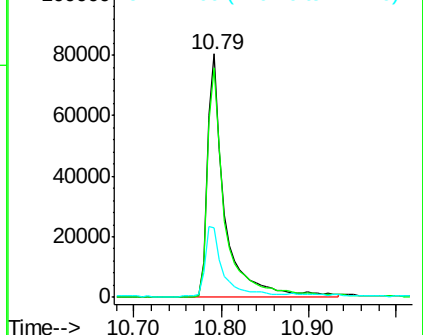
330 100

332 97.0 77.0 115.6

141 31.9 29.9 44.9



Abundance Ion 329.80 (329.50 to 330.50): E
Ion 331.80 (331.50 to 332.50): E
Ion 141.00 (140.70 to 141.70): E



#44

2-Fluorobiphenyl

Concen: 26.323 ng

RT: 9.31 min Scan# 1228

Delta R.T. -0.01 min

Lab File: BF104220.D

Acq: 4 Apr 2018 11:05

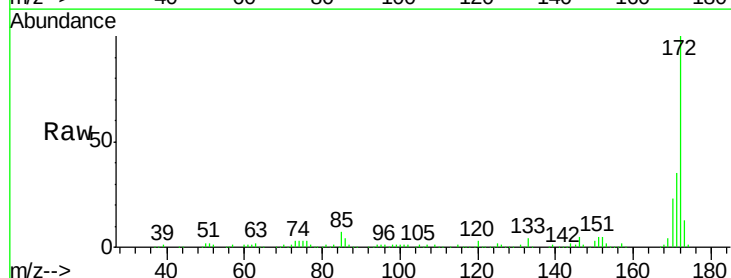
Tgt Ion:172 Resp: 426047

Ion Ratio Lower Upper

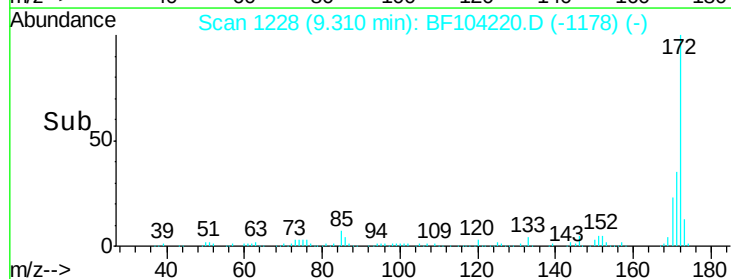
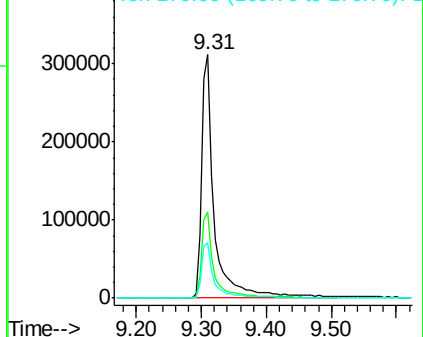
172 100

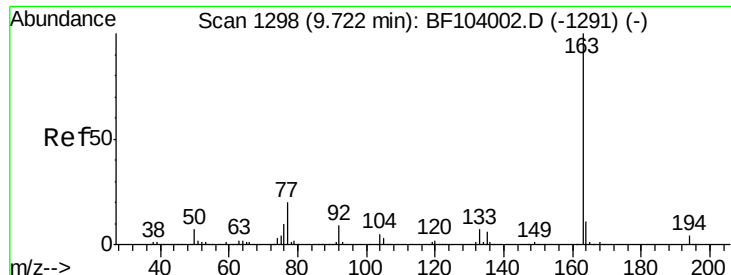
171 35.3 29.7 44.5

170 22.5 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

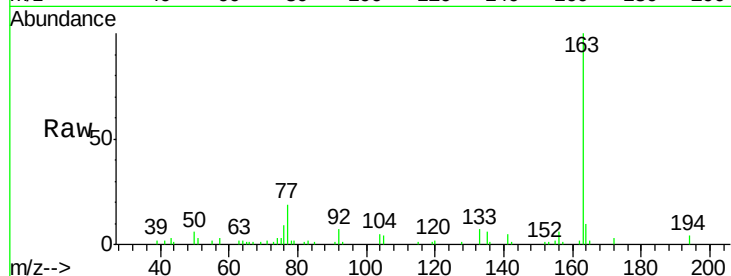




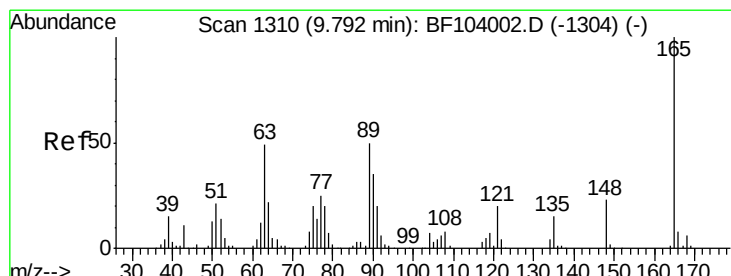
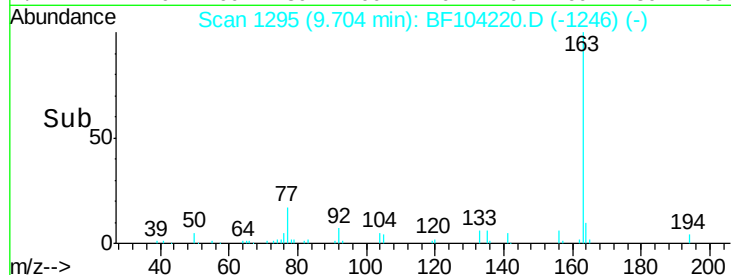
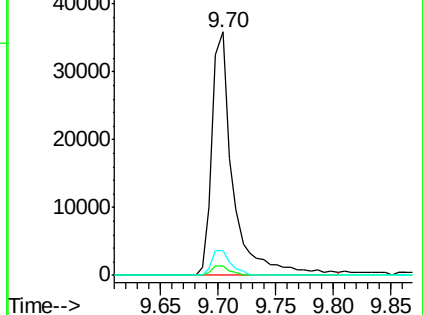
#49
Dimethylphthalate
Concen: 2.269 ng
RT: 9.70 min Scan# 1295
Delta R.T. -0.01 min
Lab File: BF104220.D
Acq: 4 Apr 2018 11:05

Instrument :
BNA_F
ClientSampled :

Tot Ion:163 Resp: 45726
Ion Ratio Lower Upper
163 100
194 3.7 2.7 4.1
164 10.4 8.2 12.2

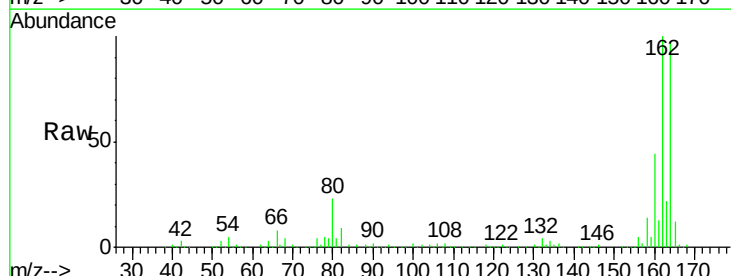


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

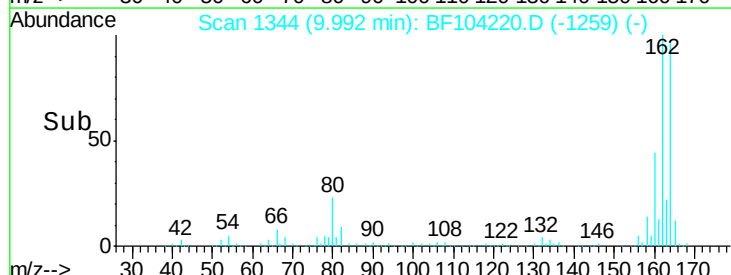
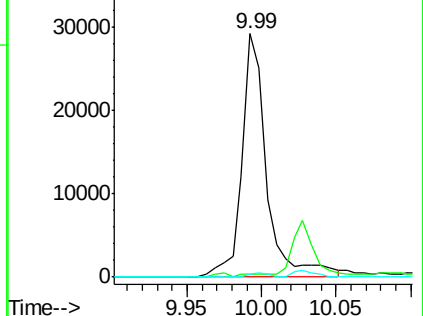


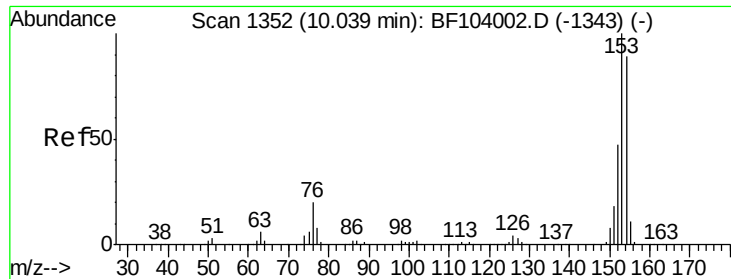
#50
2,6-Dinitrotoluene
Concen: 7.758 ng
RT: 9.99 min Scan# 1344
Delta R.T. 0.20 min
Lab File: BF104220.D
Acq: 4 Apr 2018 11:05

Tgt Ion:165 Resp: 33633
Ion Ratio Lower Upper
165 100
63 1.1 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





#51

Acenaphthene

Concen: 6.700 ng

RT: 10.03 min Scan# 1350

Delta R.T. -0.01 min

Lab File: BF104220.D

Acq: 4 Apr 2018 11:05

Instrument :

BNA_F

ClientSampled :

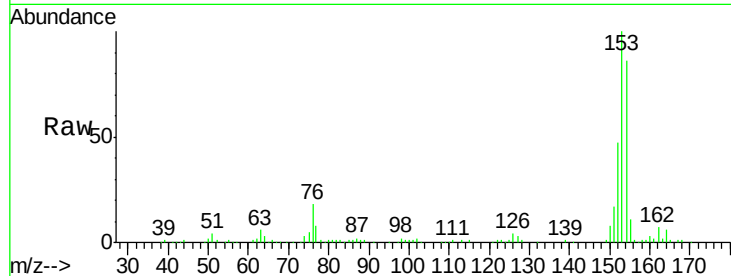
Tot Ion:154 Resp: 101464

Ion Ratio Lower Upper

154 100

153 116.4 91.2 136.8

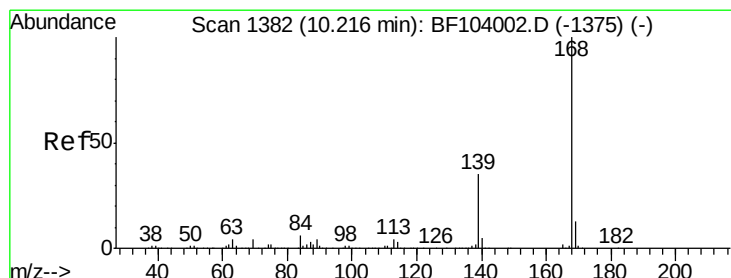
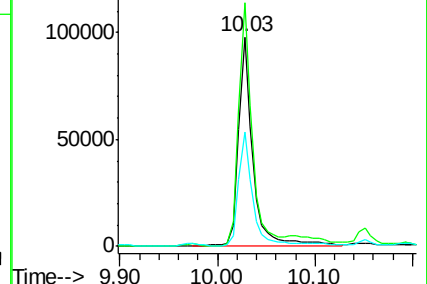
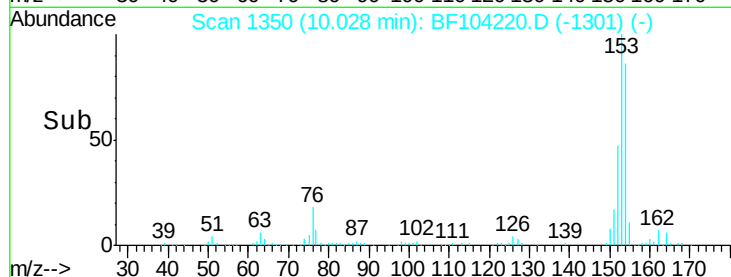
152 54.8 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 4.316 ng

RT: 10.20 min Scan# 1380

Delta R.T. -0.01 min

Lab File: BF104220.D

Acq: 4 Apr 2018 11:05

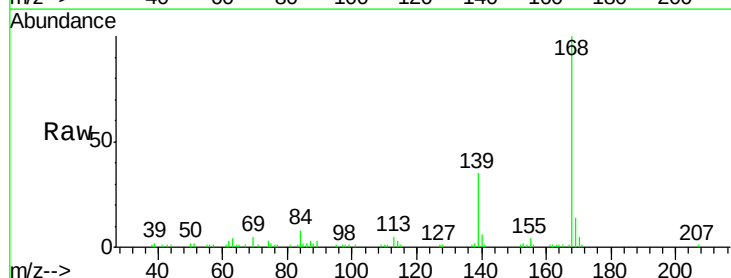
Tgt Ion:168 Resp: 95451

Ion Ratio Lower Upper

168 100

139 35.2 30.1 45.1

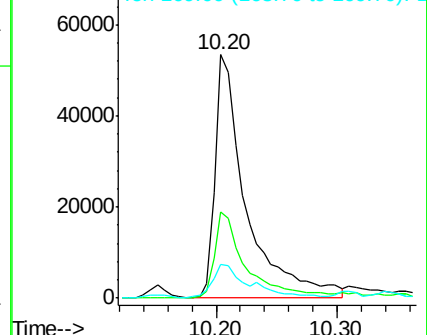
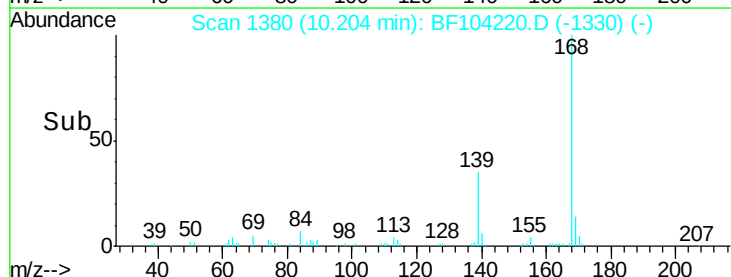
169 14.0 10.9 16.3

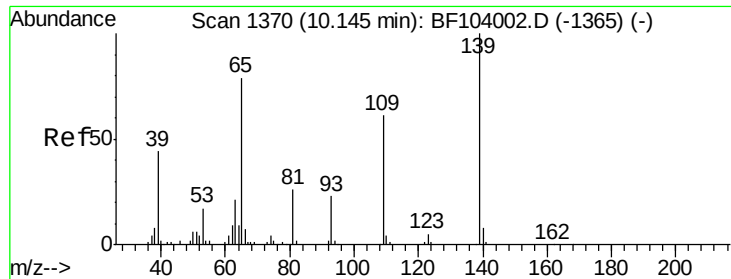


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

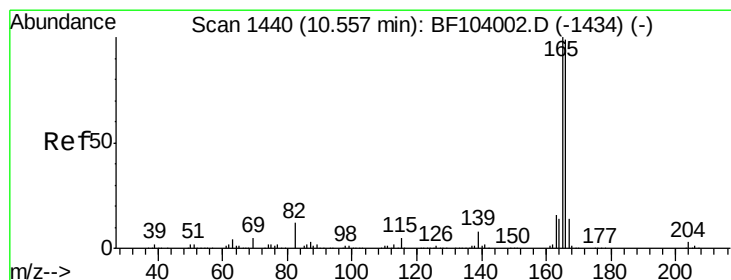
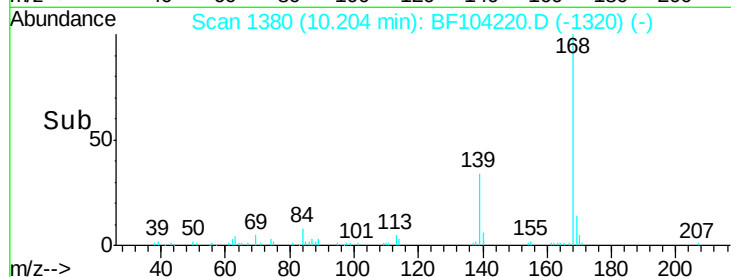
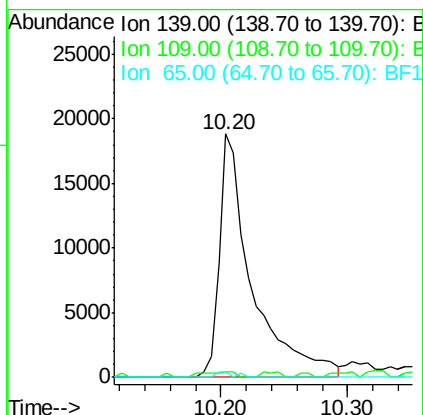
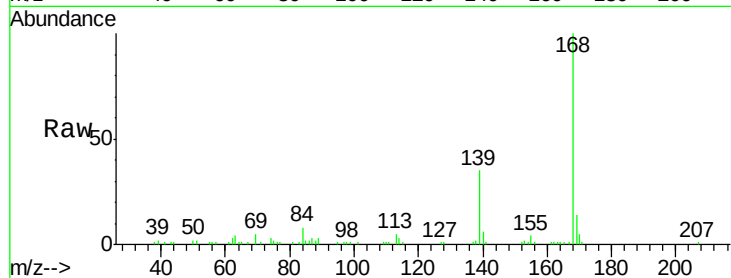




#55
4-Nitrophenol
Concen: 11.294 ng
RT: 10.20 min Scan# 1380
Delta R.T. 0.05 min
Lab File: BF104220.D
Acq: 4 Apr 2018 11:05

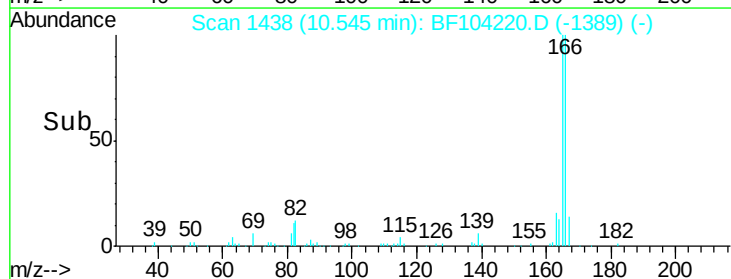
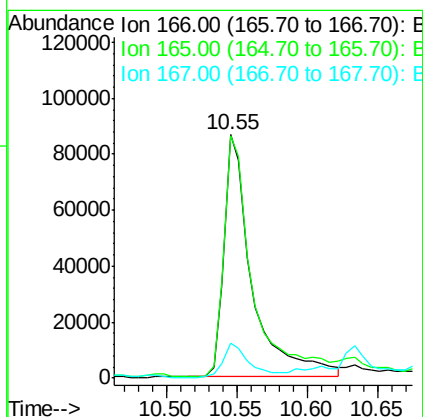
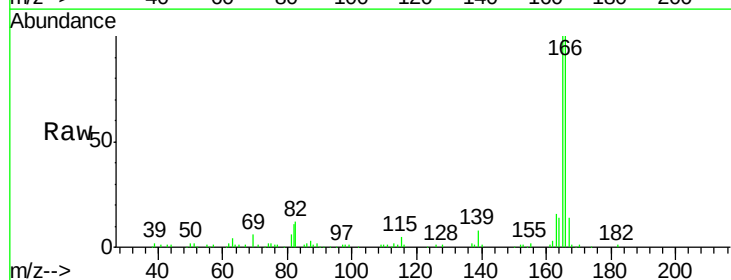
Instrument :
BNA_F
ClientSampled :

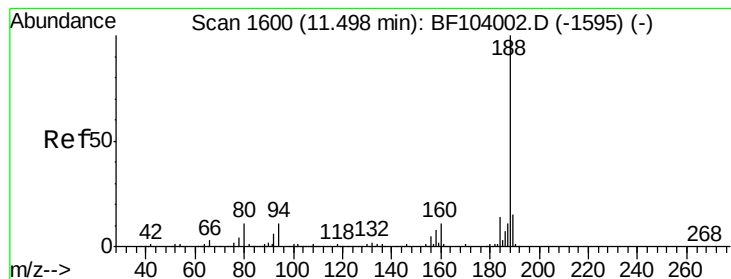
Tot Ion	Ratio	Lower	Upper
139	100		
109	2.3	48.4	88.4#
65	2.1	72.6	112.6#



#57
Fluorene
Concen: 6.626 ng
RT: 10.55 min Scan# 1438
Delta R.T. -0.01 min
Lab File: BF104220.D
Acq: 4 Apr 2018 11:05

Tgt Ion	Ratio	Lower	Upper
166	100		
165	99.7	79.8	119.8
167	14.1	10.6	16.0





#63

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.49 min Scan# 1599

Delta R.T. -0.01 min

Lab File: BF104220.D

Acq: 4 Apr 2018 11:05

Instrument :

BNA_F

ClientSampleId :

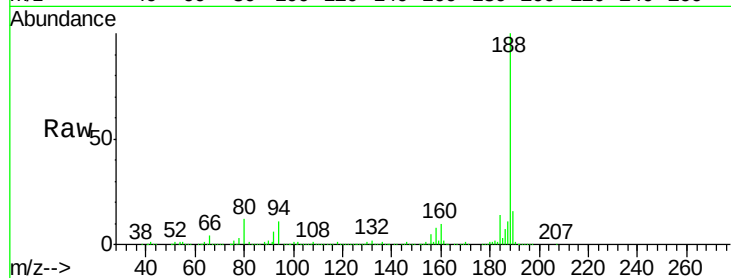
Tot Ion:188 Resp: 423722

Ion Ratio Lower Upper

188 100

94 11.3 8.5 12.7

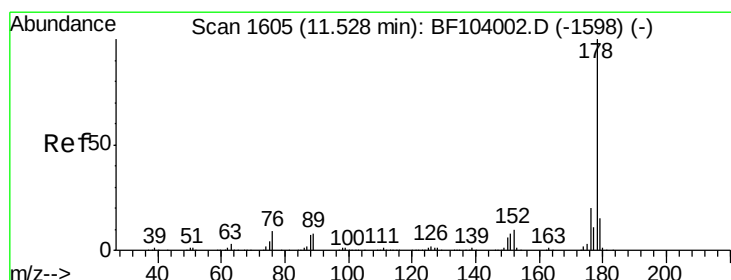
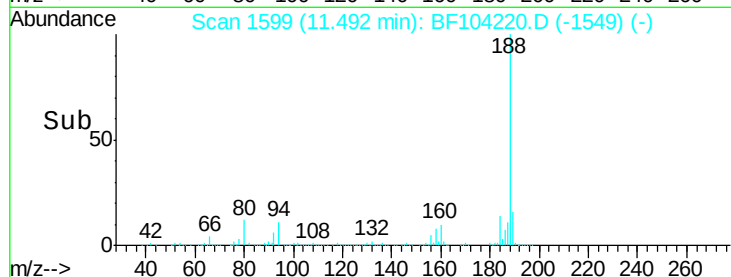
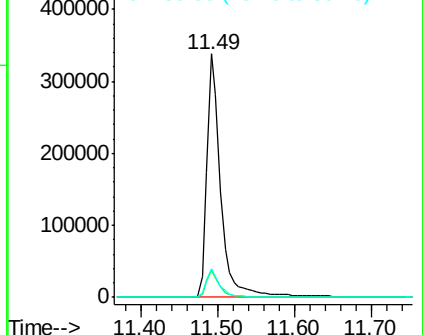
80 11.9 9.2 13.8



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



#70

Phenanthrene

Concen: 40.235 ng

RT: 11.52 min Scan# 1604

Delta R.T. 0.00 min

Lab File: BF104220.D

Acq: 4 Apr 2018 11:05

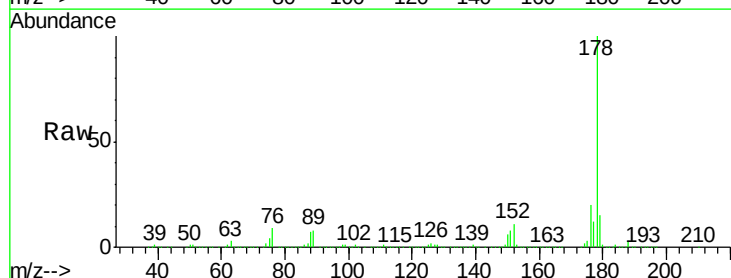
Tgt Ion:178 Resp: 923010

Ion Ratio Lower Upper

178 100

176 19.6 15.8 23.8

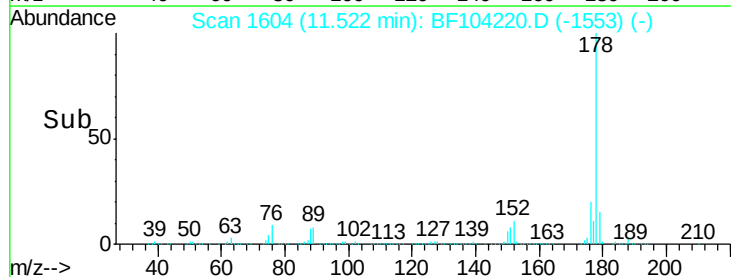
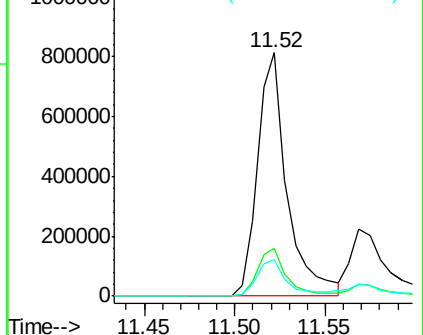
179 15.0 13.0 19.6

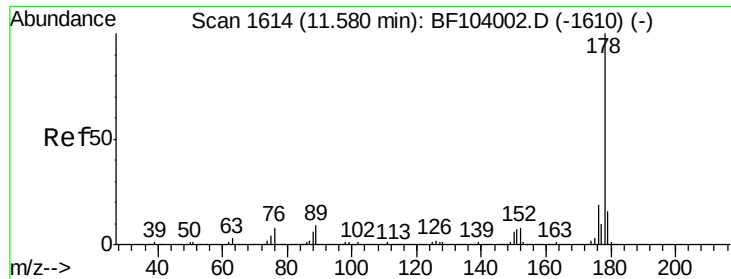


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

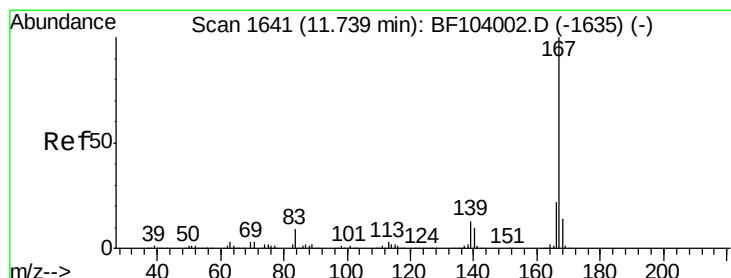
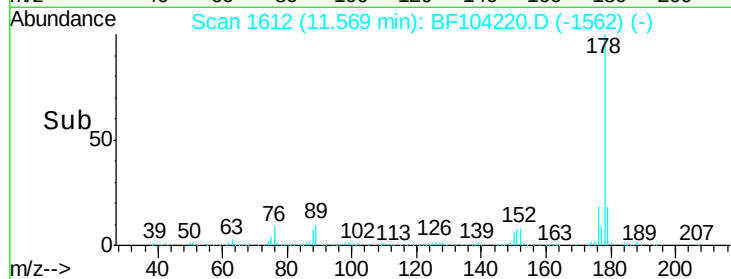
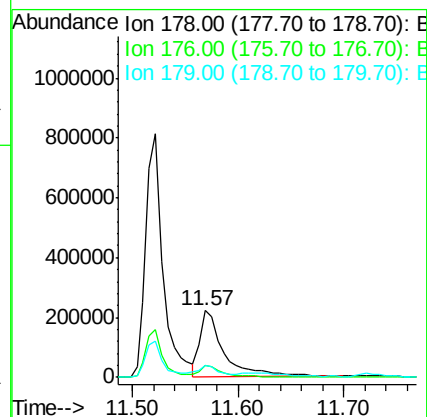
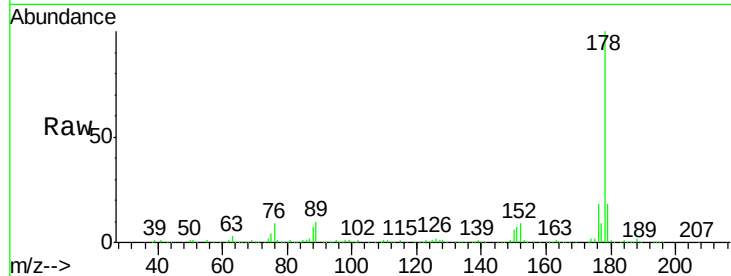




#71
 Anthracene
 Concen: 14.265 ng
 RT: 11.57 min Scan# 1612
 Delta R.T. -0.01 min
 Lab File: BF104220.D
 Acq: 4 Apr 2018 11:05

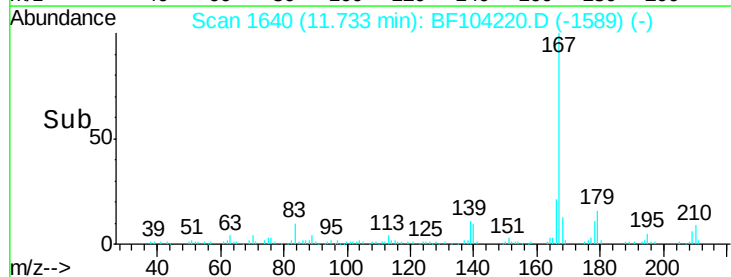
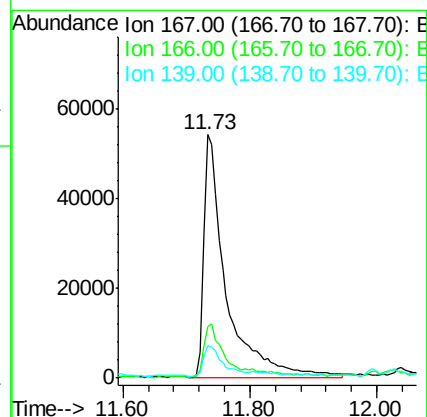
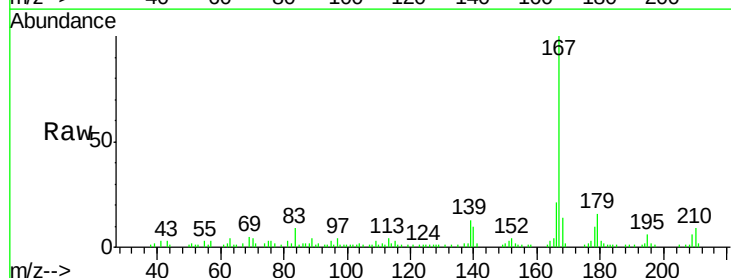
Instrument :
 BNA_F
 ClientSampleId :

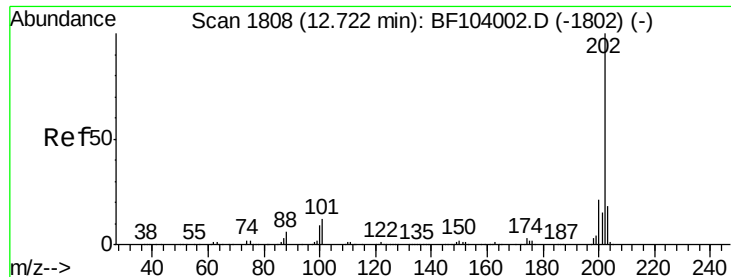
Tot Ion:178 Resp: 341816
 Ion Ratio Lower Upper
 178 100
 176 18.3 15.4 23.2
 179 17.6 12.6 19.0



#72
 Carbazole
 Concen: 5.851 ng
 RT: 11.73 min Scan# 1640
 Delta R.T. 0.00 min
 Lab File: BF104220.D
 Acq: 4 Apr 2018 11:05

Tgt Ion:167 Resp: 133808
 Ion Ratio Lower Upper
 167 100
 166 21.4 17.6 26.4
 139 13.1 10.9 16.3





#74

Fluoranthene

Concen: 41.316 ng

RT: 12.72 min Scan# 1807

Delta R.T. 0.00 min

Lab File: BF104220.D

Acq: 4 Apr 2018 11:05

Instrument :

BNA_F

ClientSampleId :

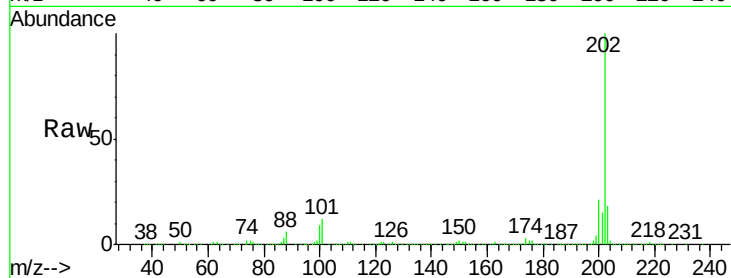
Tot Ion:202 Resp: 1007479

Ion Ratio Lower Upper

202 100

101 12.4 0.0 34.1

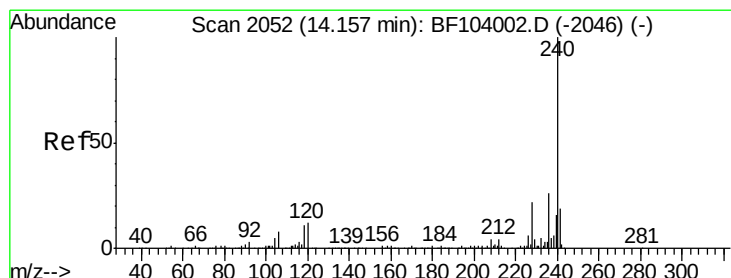
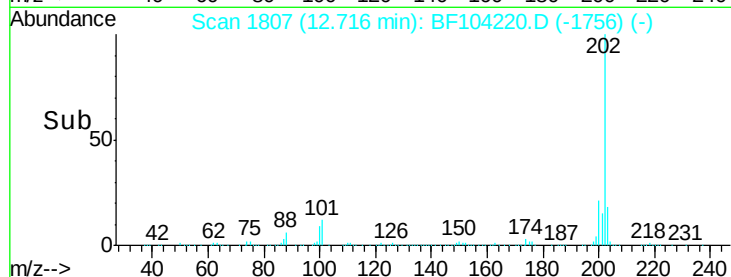
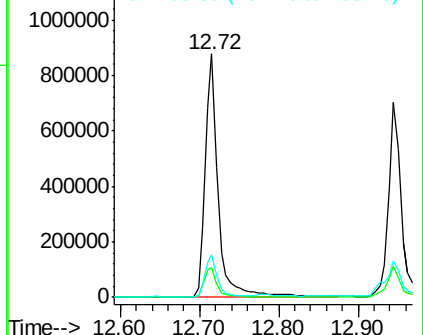
203 17.7 0.0 38.1



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: 14.15 min Scan# 2051

Delta R.T. -0.01 min

Lab File: BF104220.D

Acq: 4 Apr 2018 11:05

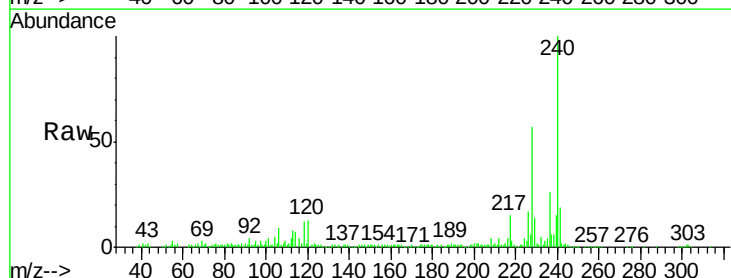
Tgt Ion:240 Resp: 241018

Ion Ratio Lower Upper

240 100

120 12.8 9.5 14.3

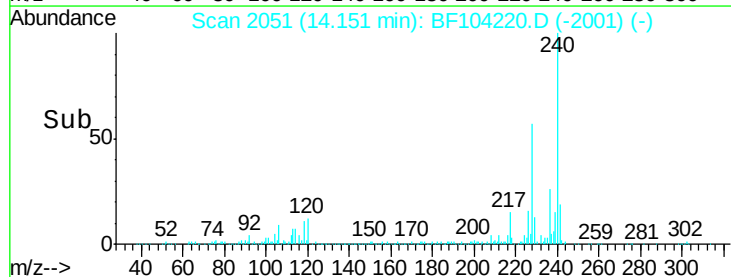
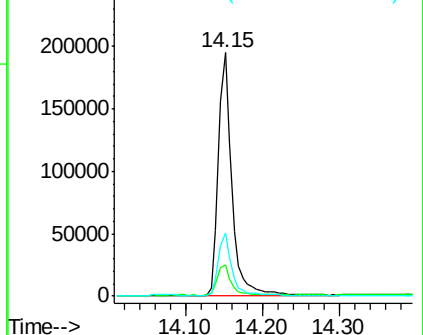
236 25.8 20.7 31.1

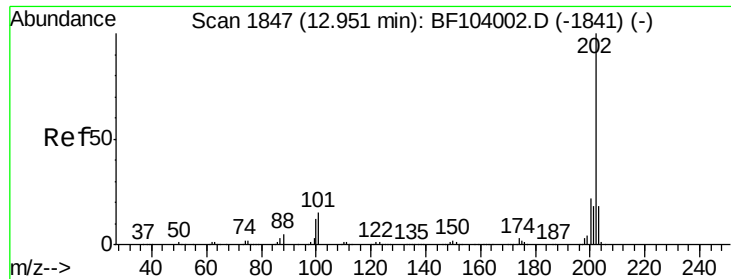


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

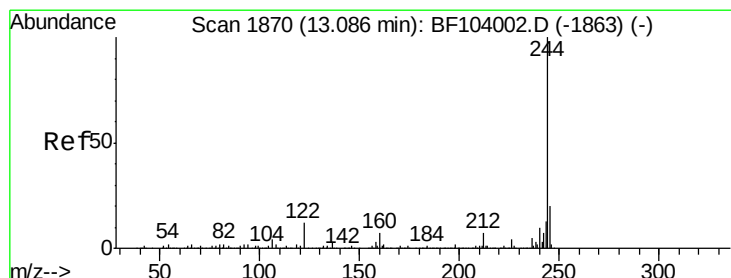
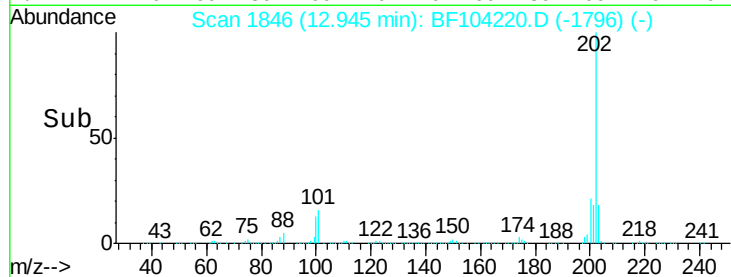
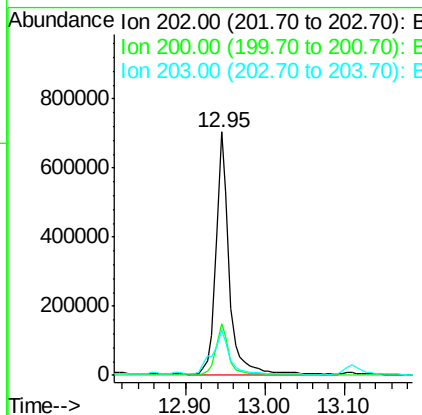
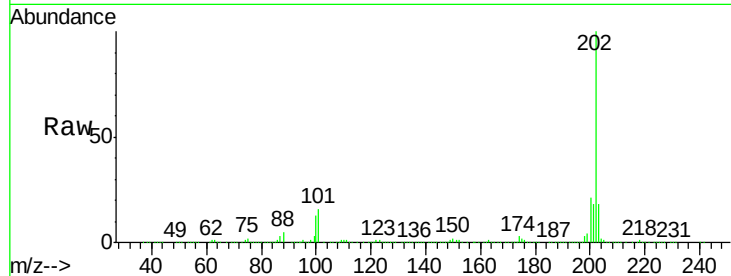




#77
Pvrene
Concen: 46.680 ng
RT: 12.95 min Scan# 1846
Delta R.T. -0.01 min
Lab File: BF104220.D
Acq: 4 Apr 2018 11:05

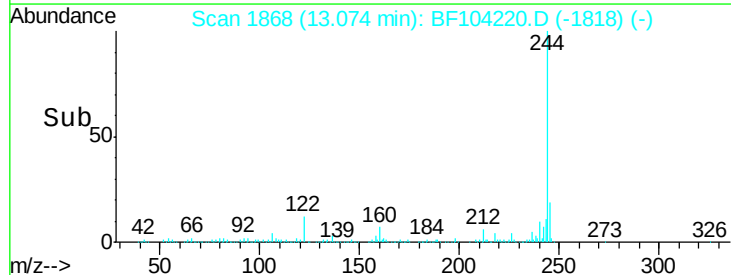
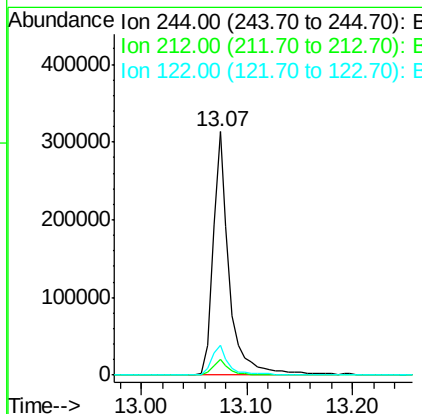
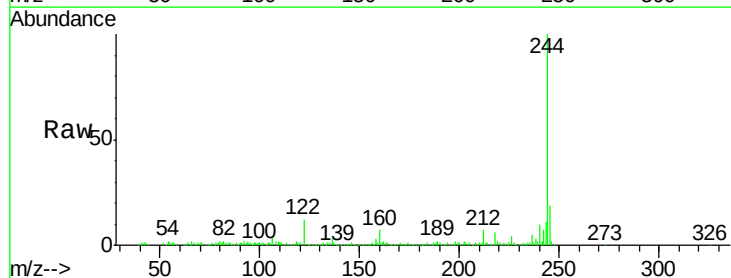
Instrument :
BNA_F
ClientSampleId :

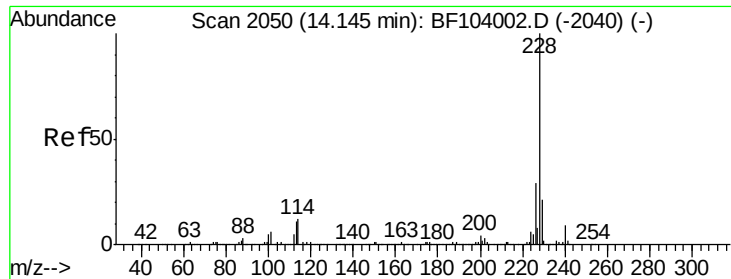
Tot Ion:202 Resp: 808771
Ion Ratio Lower Upper
202 100
200 21.3 17.4 26.2
203 18.4 14.3 21.5



#78
Terphenyl-d14
Concen: 32.189 ng
RT: 13.07 min Scan# 1868
Delta R.T. -0.01 min
Lab File: BF104220.D
Acq: 4 Apr 2018 11:05

Tgt Ion:244 Resp: 336001
Ion Ratio Lower Upper
244 100
212 6.5 5.4 8.0
122 12.3 11.0 16.4





#80

Benzo(a)anthracene

Concen: 25.761 ng

RT: 14.14 min Scan# 2049

Delta R.T. -0.01 min

Lab File: BF104220.D

Acq: 4 Apr 2018 11:05

Instrument :

BNA_F

ClientSampleId :

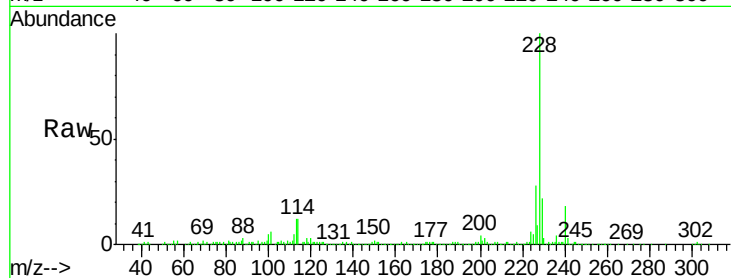
Tot Ion:228 Resp: 388494

Ion Ratio Lower Upper

228 100

226 28.1 22.6 33.8

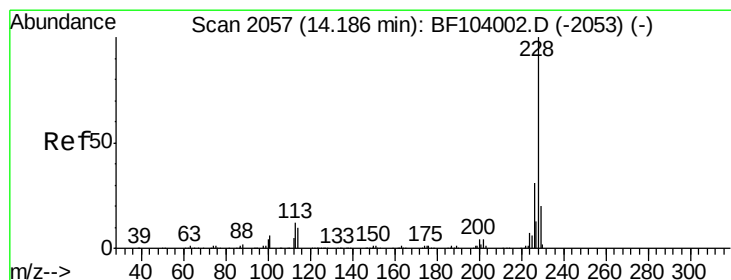
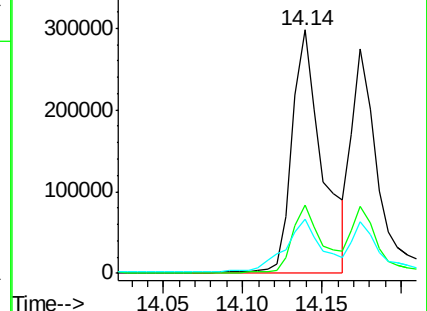
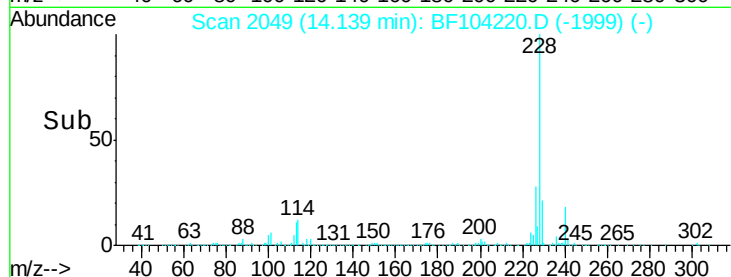
229 22.1 15.8 23.6



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: 21.442 ng

RT: 14.17 min Scan# 2055

Delta R.T. -0.01 min

Lab File: BF104220.D

Acq: 4 Apr 2018 11:05

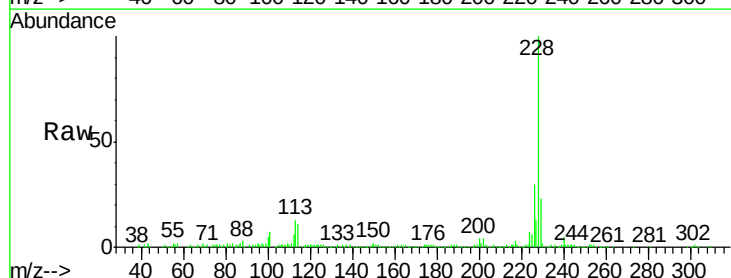
Tgt Ion:228 Resp: 316722

Ion Ratio Lower Upper

228 100

226 30.0 25.0 37.6

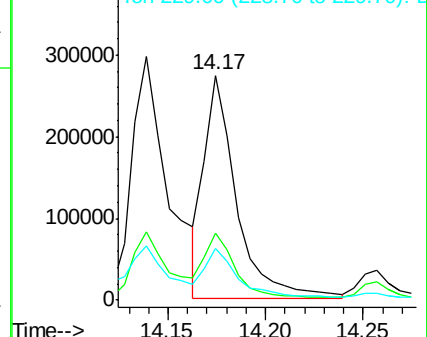
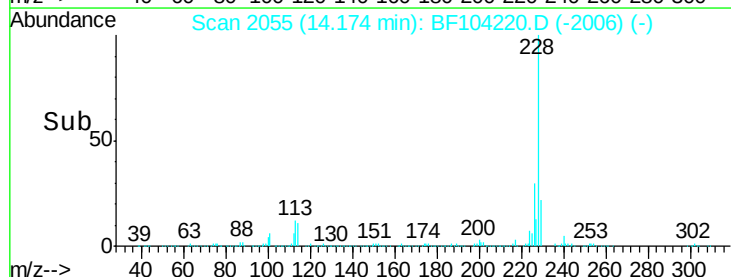
229 22.7 16.2 24.4

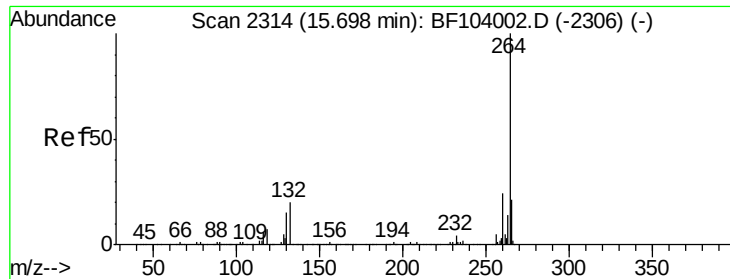


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

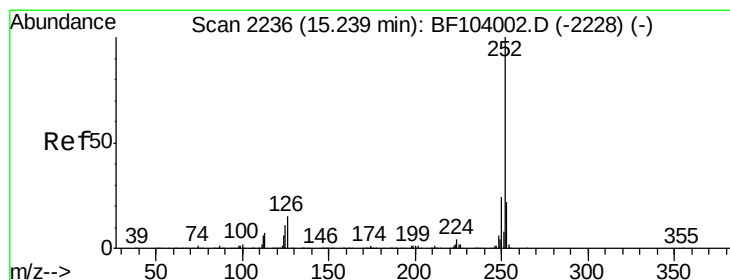
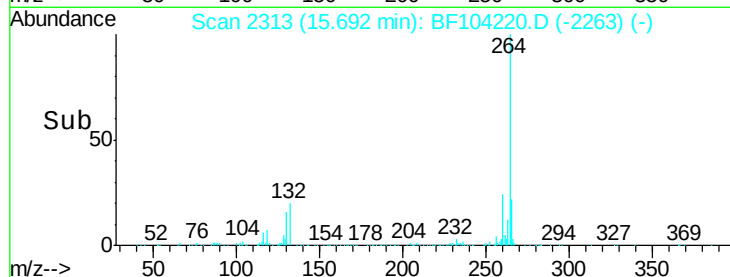
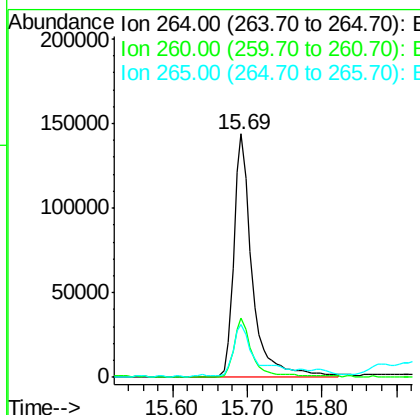
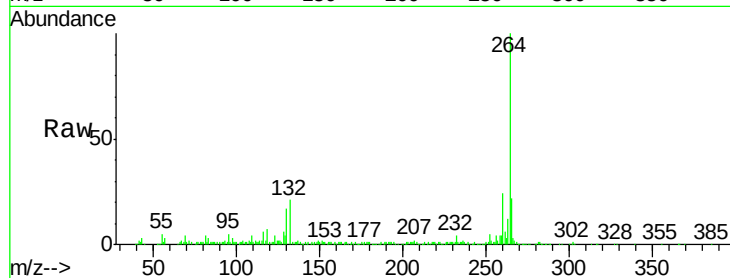




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.69 min Scan# 2313
Delta R.T. -0.01 min
Lab File: BF104220.D
Acq: 4 Apr 2018 11:05

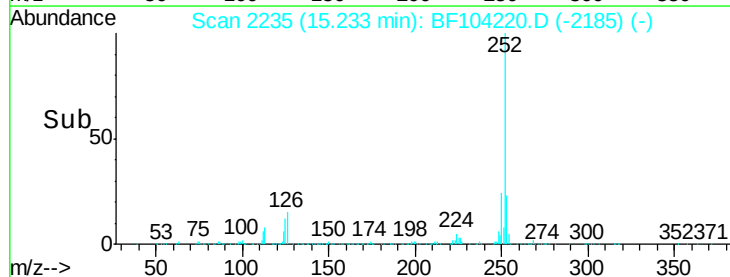
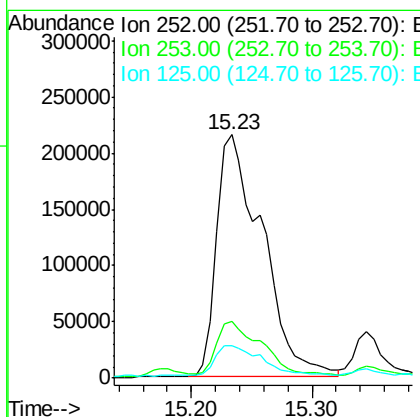
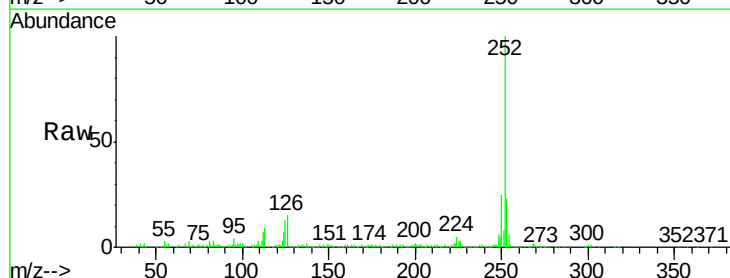
Instrument :
BNA_F
ClientSampleId :

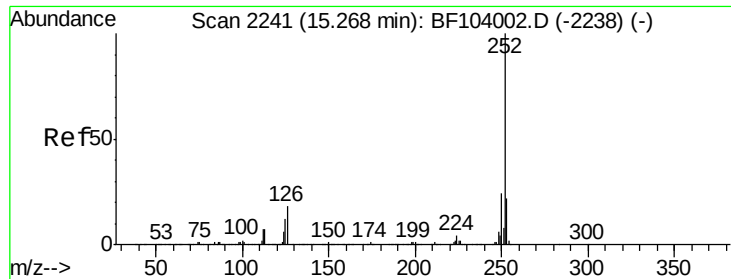
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.4	19.2	28.8
265	21.9	17.5	26.3



#87
Benzo(b)fluoranthene
Concen: 36.966 ng
RT: 15.23 min Scan# 2235
Delta R.T. -0.01 min
Lab File: BF104220.D
Acq: 4 Apr 2018 11:05

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.4	17.0	25.6
125	13.5	9.0	13.6

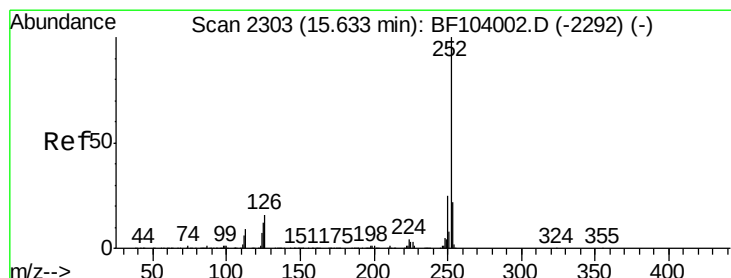
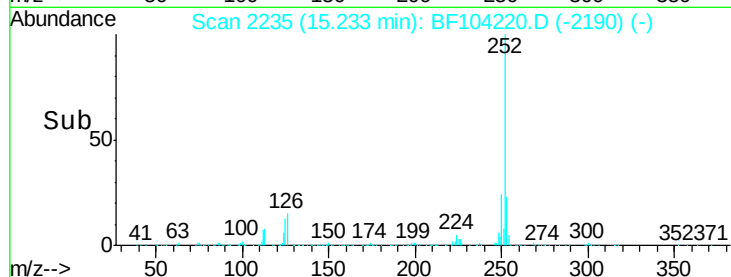
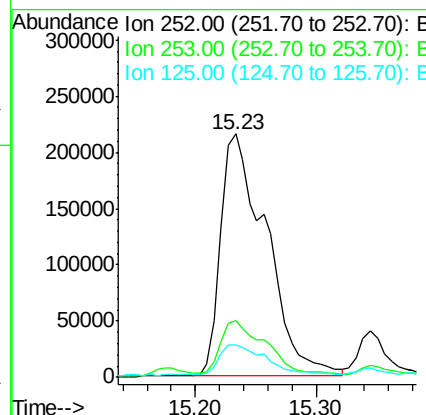
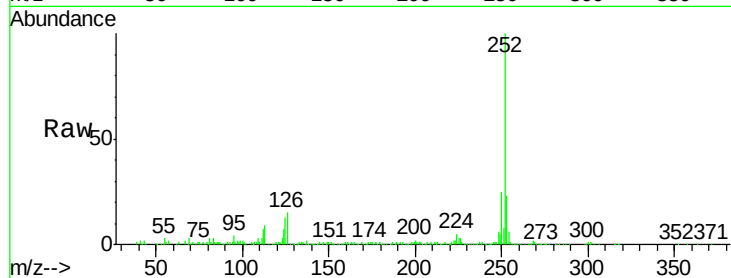




#88
Benzo(k)fluoranthene
Concen: 39.242 ng
RT: 15.23 min Scan# 2235
Delta R.T. -0.04 min
Lab File: BF104220.D
Acq: 4 Apr 2018 11:05

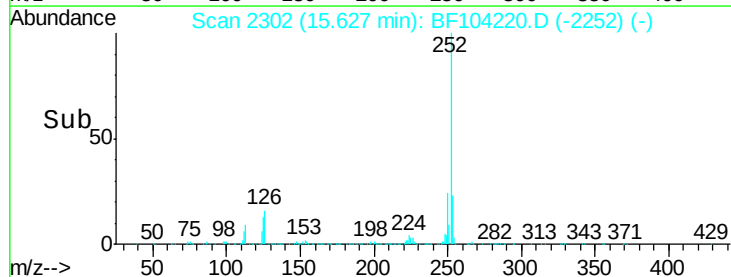
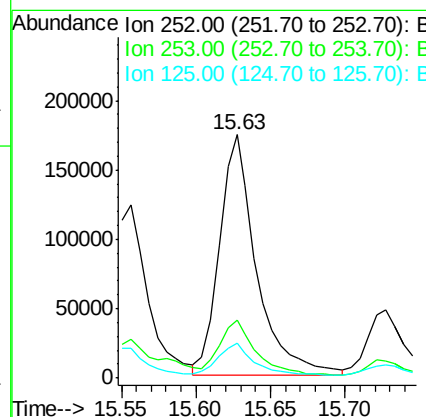
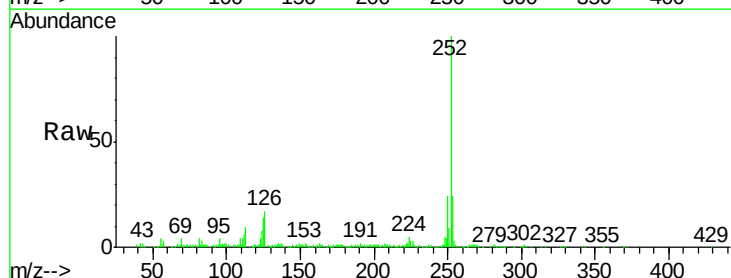
Instrument :
BNA_F
ClientSampleId :

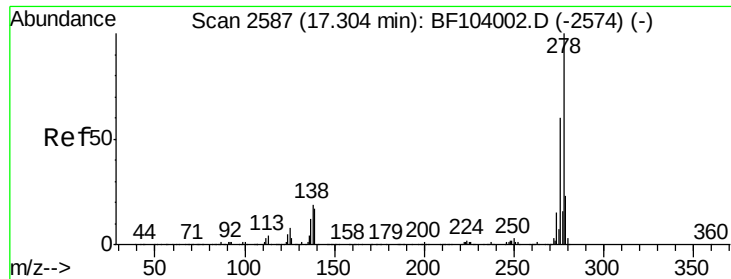
Tot Ion:252 Resp: 562321
Ion Ratio Lower Upper
252 100
253 23.4 17.9 26.9
125 13.5 10.2 15.2



#89
Benzo(a)pyrene
Concen: 21.329 ng
RT: 15.63 min Scan# 2302
Delta R.T. -0.01 min
Lab File: BF104220.D
Acq: 4 Apr 2018 11:05

Tgt Ion:252 Resp: 300673
Ion Ratio Lower Upper
252 100
253 23.7 17.1 25.7
125 14.4 9.8 14.6

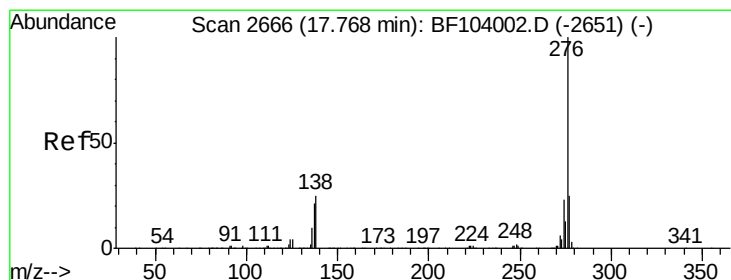
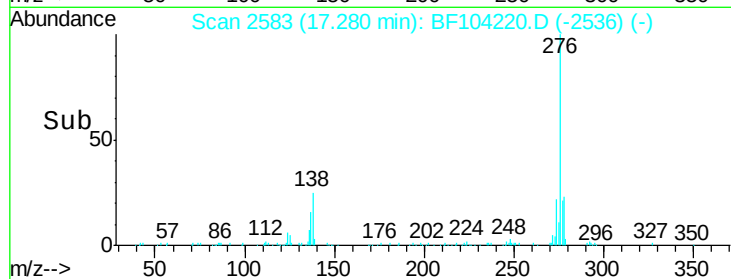
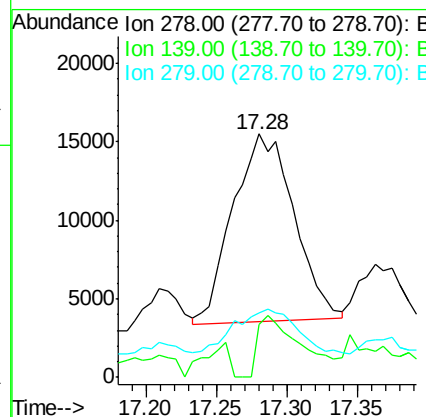
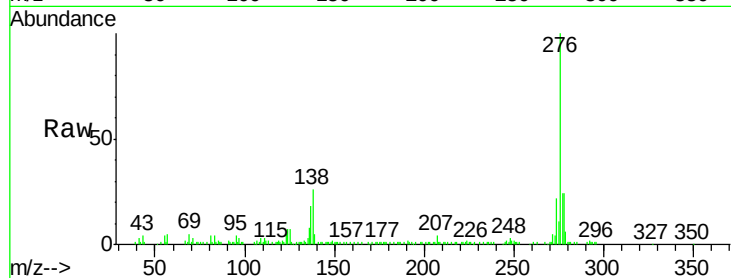




#90
Dibenzo(a,h)anthracene
Concen: 2.785 ng
RT: 17.28 min Scan# 2583
Delta R.T. -0.02 min
Lab File: BF104220.D
Acq: 4 Apr 2018 11:05

Instrument :
BNA_F
ClientSampleId :

Tot Ion:278 Resp: 36296
Ion Ratio Lower Upper
278 100
139 21.6 15.9 23.9
279 26.2 19.0 28.4



#91
Benzo(g,h,i)perylene
Concen: 12.330 ng
RT: 17.76 min Scan# 2665
Delta R.T. -0.02 min
Lab File: BF104220.D
Acq: 4 Apr 2018 11:05

Tgt Ion:276 Resp: 160967
Ion Ratio Lower Upper
276 100
277 23.4 17.9 26.9
138 21.7 21.8 32.8#

