

Data Path : Z:\HPCHEM1\BNA F\Data\BF032117\
 Data File : BF093824.D
 Acq On : 22 Mar 2017 8:41
 Operator : SJ/MA
 Sample : I2318-01DL 100X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Mar 22 14:33:23 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 21 14:38:20 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	209478	20.00	ng	0.00
21) Naphthalene-d8	8.12	136	848119	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	387459	20.00	ng	0.00
63) Phenanthrene-d10	11.34	188	595590	20.00	ng	0.00
75) Chrysene-d12	13.97	240	378519	20.00	ng	0.00
86) Perylene-d12	15.37	264	367886	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.41	112	12474	1.04	ng	-0.01
7) Phenol-d6	6.45	99	15790	1.07	ng	-0.01
23) Nitrobenzene-d5	7.38	82	8883	0.59	ng	-0.01
41) 2,4,6-Tribromophenol	10.64	330	2124	0.71	ng	-0.01
44) 2-Fluorobiphenyl	9.19	172	22483	0.98	ng	0.00
78) Terphenyl-d14	12.92	244	15027	0.81	ng	-0.01

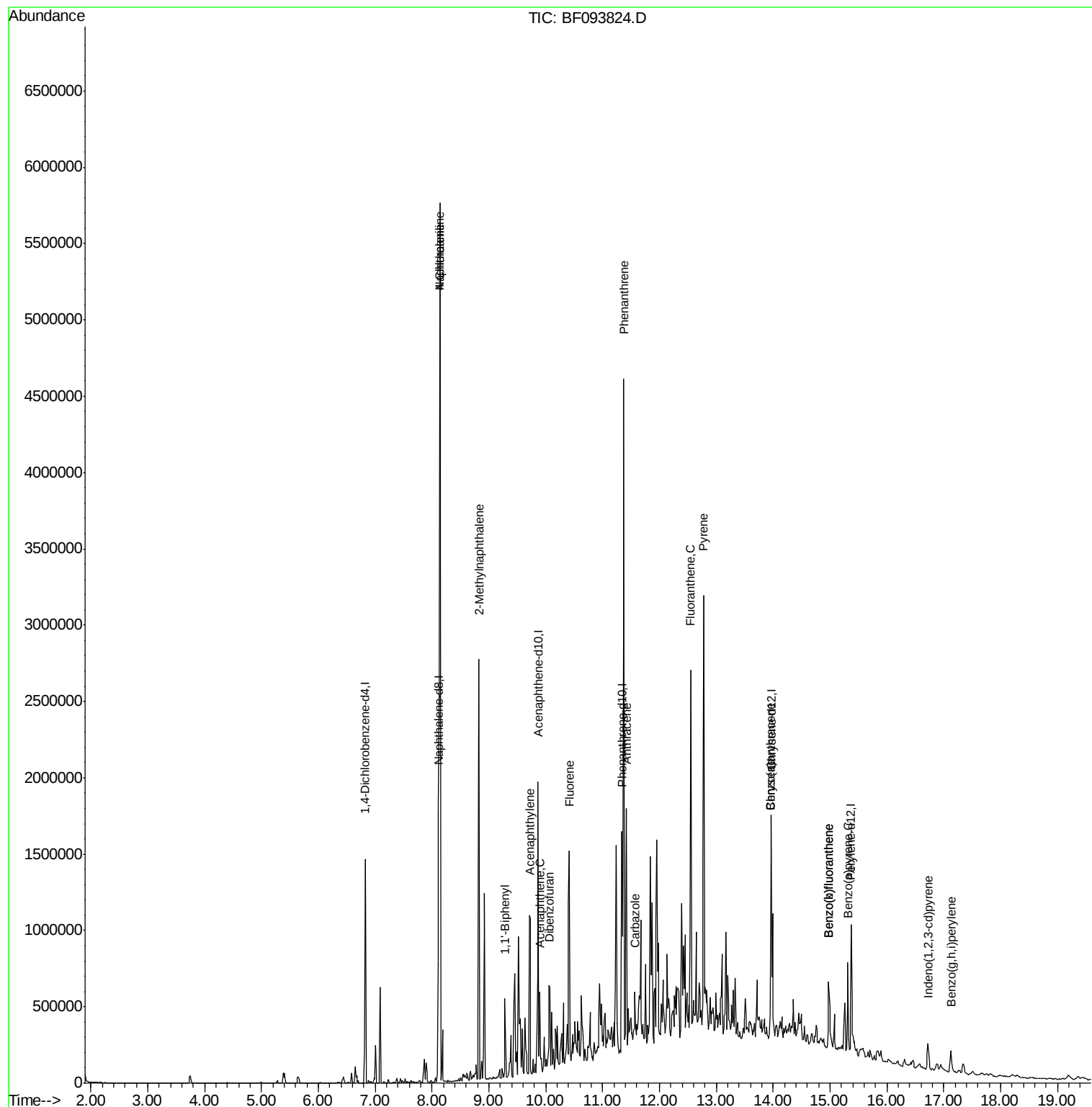
Target Compounds						Qvalue
31) Naphthalene	8.14	128	2806057	71.28	ng	98
33) 4-Chloroaniline	8.14	127	395220	23.36	ng	# 33
37) 2-Methylnaphthalene	8.82	142	691759	26.92	ng	99
45) 1,1'-Biphenyl	9.28	154	178409	5.67	ng	95
48) Acenaphthylene	9.73	152	614054	15.63	ng	98
51) Acenaphthene	9.90	154	141339	6.02	ng	97
54) Dibenzofuran	10.07	168	235960	7.47	ng	# 90
57) Fluorene	10.41	166	609924	25.22	ng	99
70) Phenanthrene	11.37	178	2075065	65.42	ng	100
71) Anthracene	11.42	178	619607	18.97	ng	99
72) Carbazole	11.57	167	127980	3.96	ng	97
74) Fluoranthene	12.55	202	895250	27.46	ng	100
77) Pyrene	12.78	202	1200964	38.13	ng	100
80) Benzo(a)anthracene	13.96	228	379044	15.99	ng	# 74
82) Chrysene	13.96	228	379044	16.00	ng	# 76
85) Indeno(1,2,3-cd)pyrene	16.72	276	93337	4.81	ng	94
87) Benzo(b)fluoranthene	14.97	252	333199	13.44	ng	# 96
88) Benzo(k)fluoranthene	14.97	252	333199	18.19	ng	99
89) Benzo(a)pyrene	15.32	252	267455	13.30	ng	97
91) Benzo(a,h,i)perylene	17.13	276	110091	6.64	ng	97

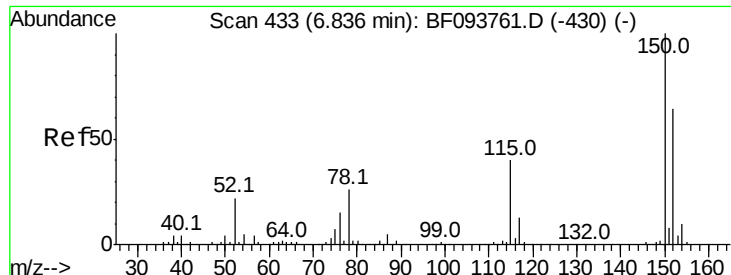
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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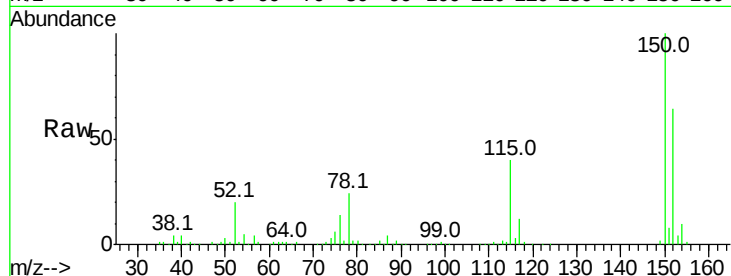


#1

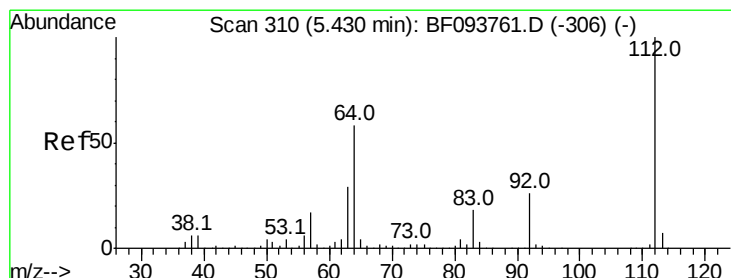
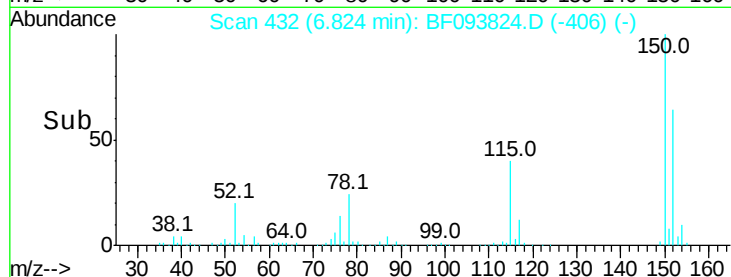
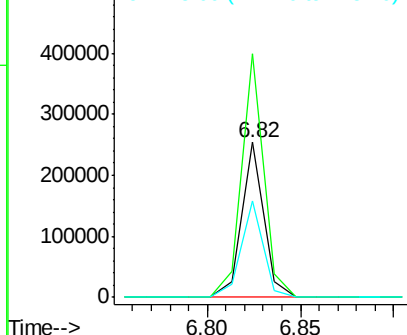
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.82 min Scan# 432
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Instrument :
BNA_F
ClientSampled :

Tot Ion:152 Resp: 209478
Ion Ratio Lower Upper
152 100
150 157.0 126.2 189.2
115 62.3 52.2 78.2



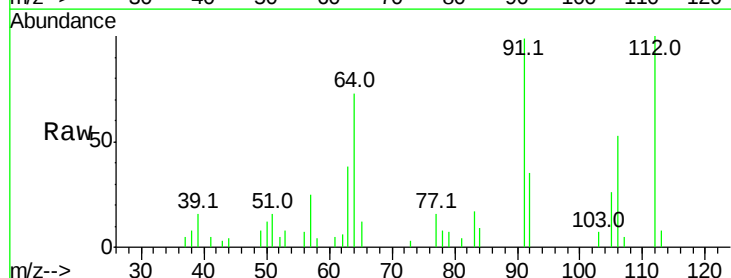
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



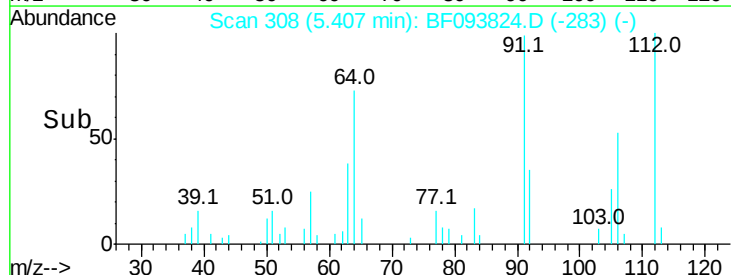
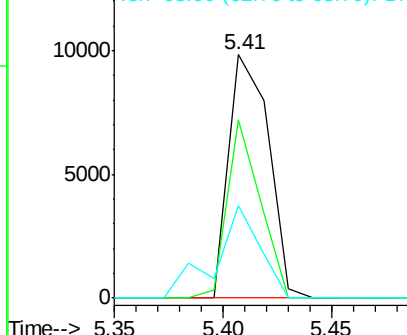
#5

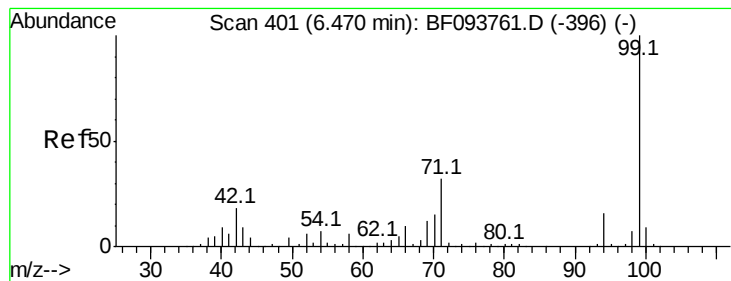
2-Fluorophenol
Concen: 1.04 ng
RT: 5.41 min Scan# 308
Delta R.T. -0.01 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Tgt Ion:112 Resp: 12474
Ion Ratio Lower Upper
112 100
64 73.2 46.0 69.0#
63 38.3 23.4 35.0#



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 1.07 ng

RT: 6.45 min Scan# 399

Delta R.T. -0.01 min

Lab File: BF093824.D

Acq: 22 Mar 2017 8:41

Instrument :

BNA_F

ClientSampleId :

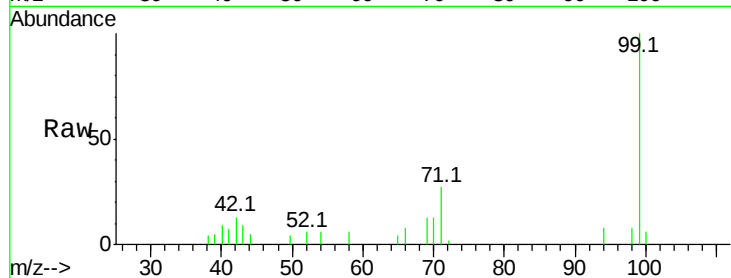
Tot Ion: 99 Resp: 15790

Ion Ratio Lower Upper

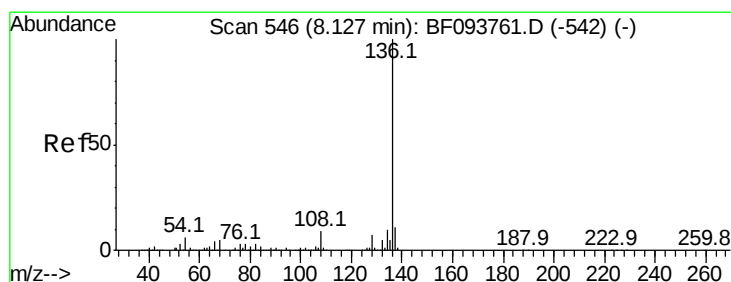
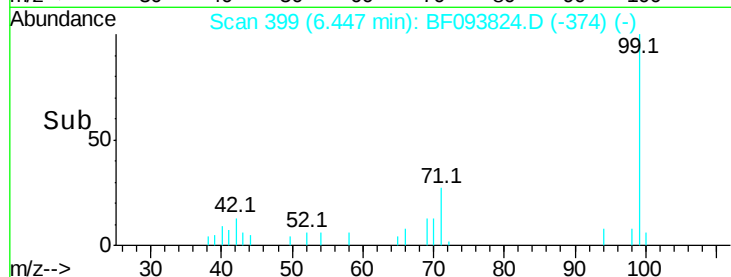
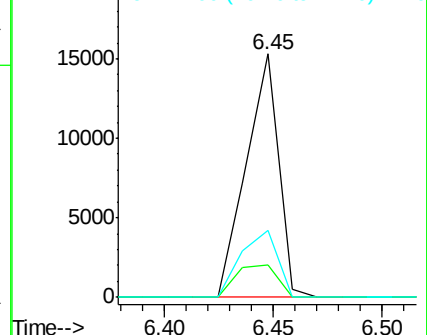
99 100

42 13.3 13.5 20.3#

71 27.4 24.5 36.7



Abundance Ion 99.00 (98.70 to 99.70): BF0
Ion 42.00 (41.70 to 42.70): BF0
Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.12 min Scan# 545

Delta R.T. -0.00 min

Lab File: BF093824.D

Acq: 22 Mar 2017 8:41

Tgt Ion: 136 Resp: 848119

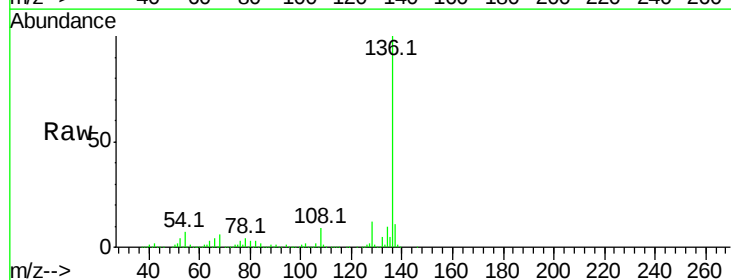
Ion Ratio Lower Upper

136 100

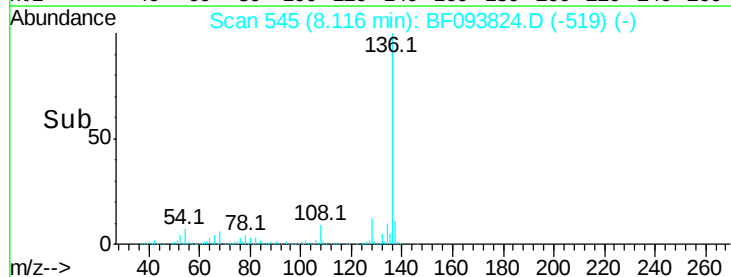
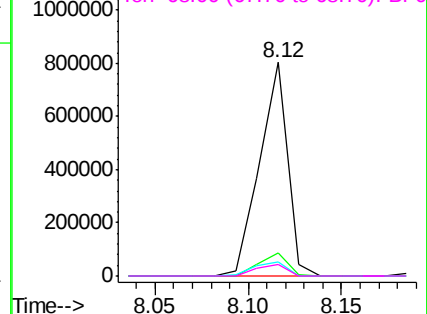
137 11.1 8.5 12.7

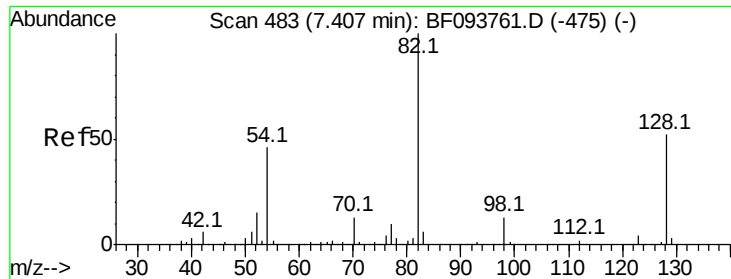
54 6.7 4.9 7.3

68 5.7 4.1 6.1



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): BF0
Ion 68.00 (67.70 to 68.70): BF0

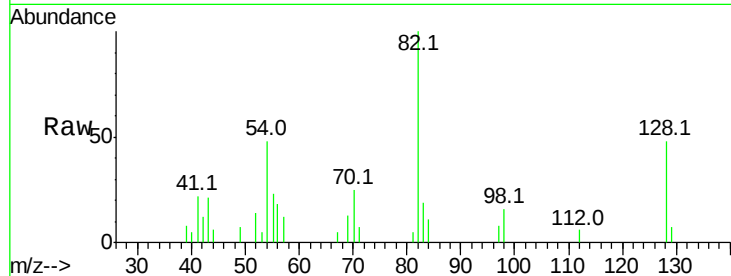




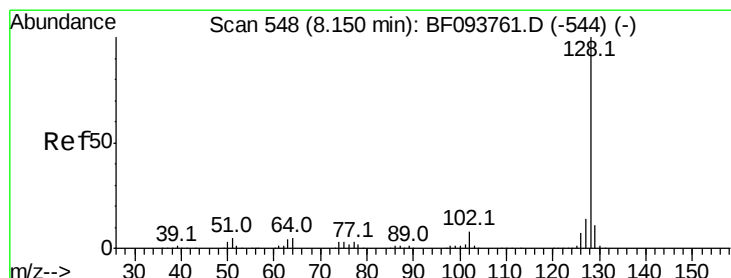
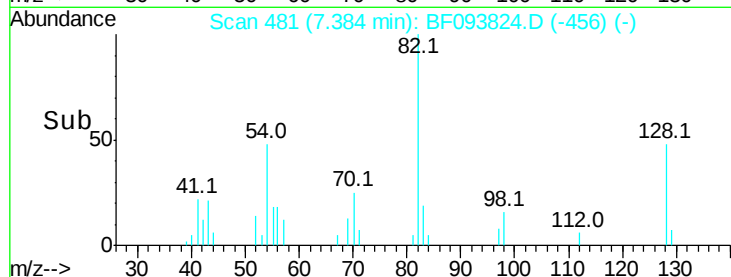
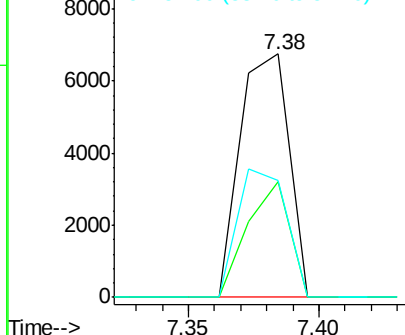
#23
Nitrobenzene-d5
Concen: 0.59 ng
RT: 7.38 min Scan# 481
Delta R.T. -0.01 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Instrument :
BNA_F
ClientSampled :

Tot Ion: 82 Resp: 8883
Ion Ratio Lower Upper
82 100
128 47.6 34.0 51.0
54 47.9 42.2 63.2

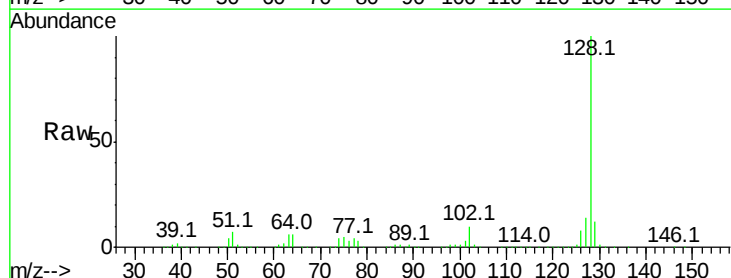


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

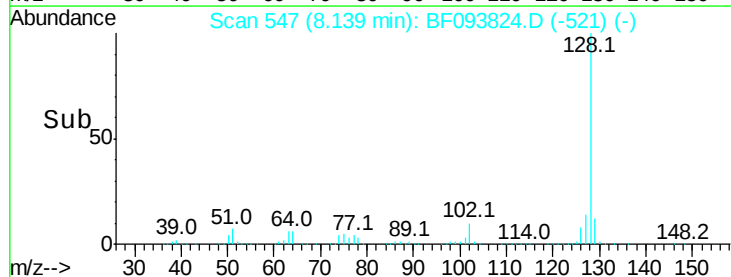
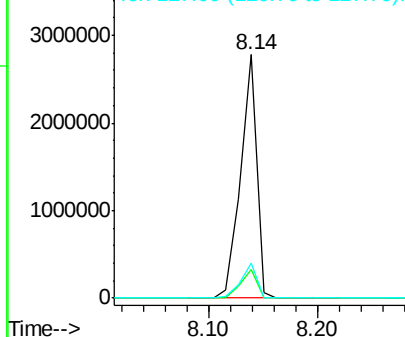


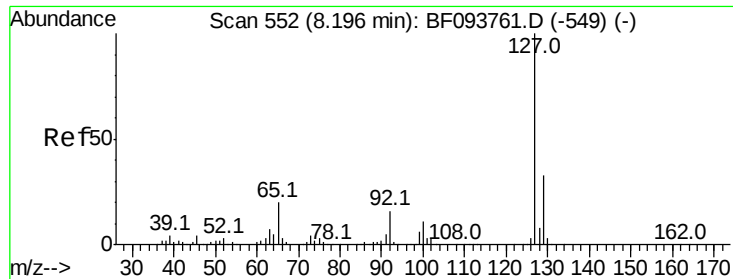
#31
Naphthalene
Concen: 71.28 ng
RT: 8.14 min Scan# 547
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Tgt Ion:128 Resp: 2806057
Ion Ratio Lower Upper
128 100
129 11.9 9.0 13.6
127 14.4 10.8 16.2



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

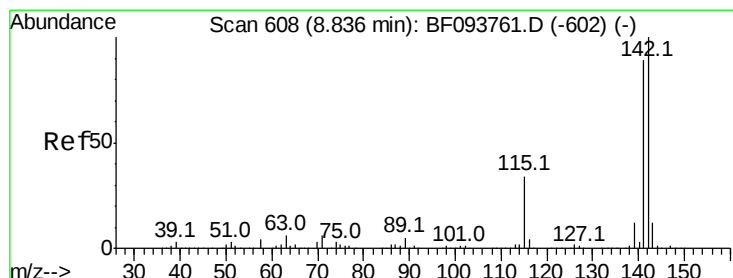
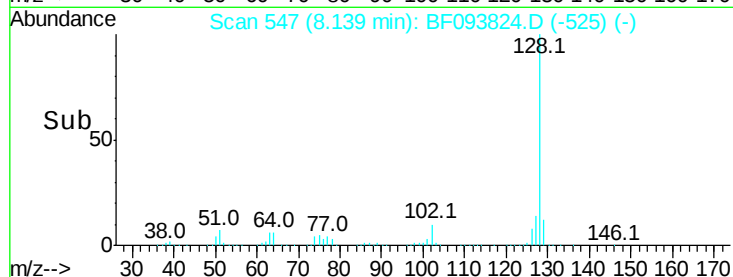
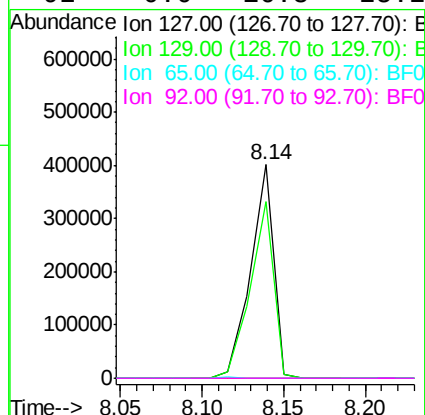
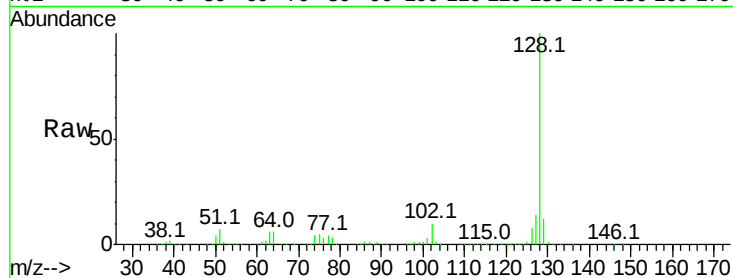




#33
 4-Chloroaniline
 Concen: 23.36 ng
 RT: 8.14 min Scan# 547
 Delta R.T. -0.05 min
 Lab File: BF093824.D
 Acq: 22 Mar 2017 8:41

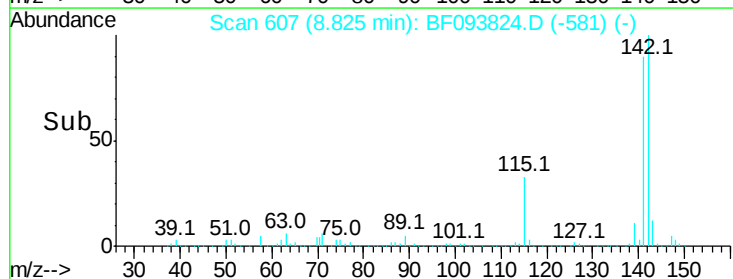
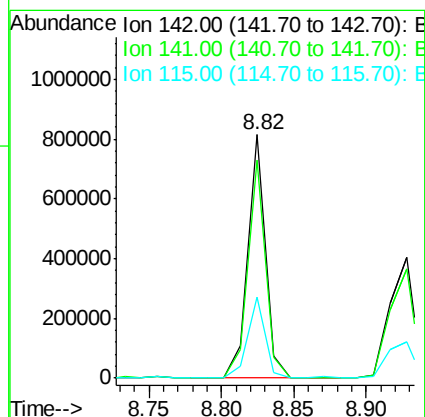
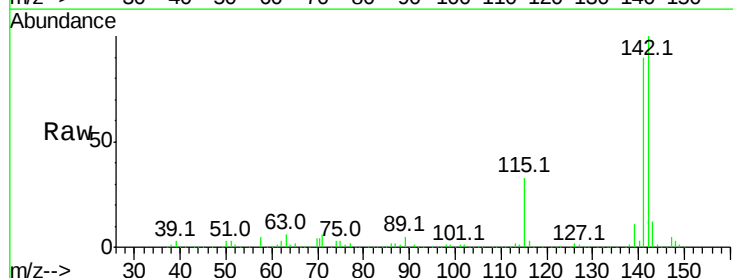
Instrument :
 BNA_F
 ClientSampleId :

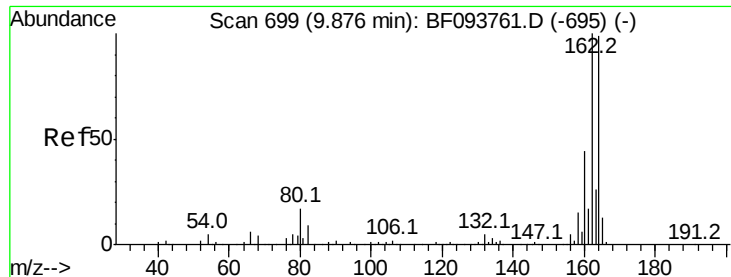
Tot Ion:	127	Resp:	395220
Ion	Ratio	Lower	Upper
127	100		
129	82.8	26.2	39.2#
65	0.0	27.8	41.8#
92	0.0	16.8	25.2#



#37
 2-Methylnaphthalene
 Concen: 26.92 ng
 RT: 8.82 min Scan# 607
 Delta R.T. -0.00 min
 Lab File: BF093824.D
 Acq: 22 Mar 2017 8:41

Tgt Ion:	142	Resp:	691759
Ion	Ratio	Lower	Upper
142	100		
141	89.5	71.3	106.9
115	33.4	27.1	40.7

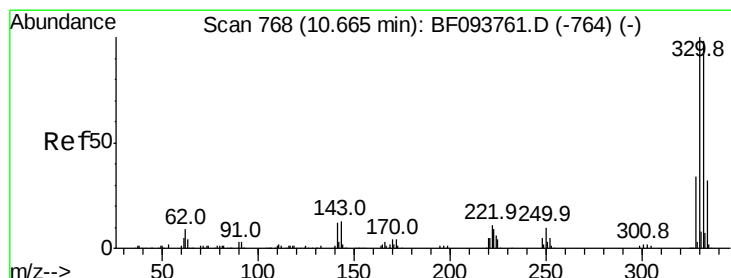
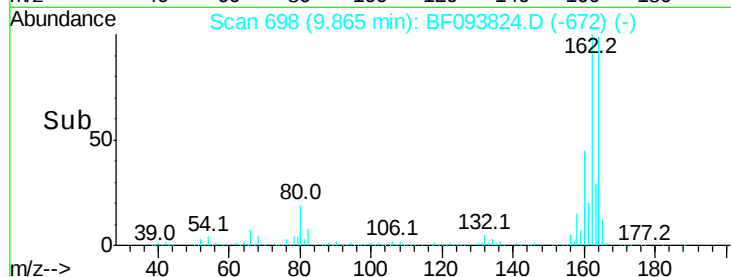
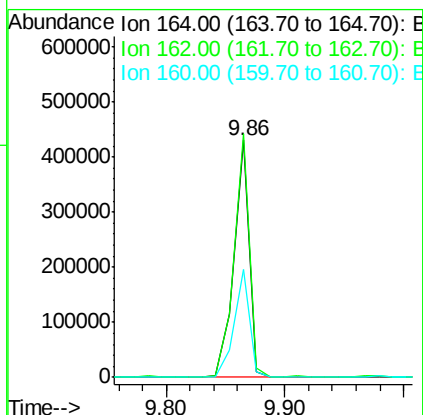
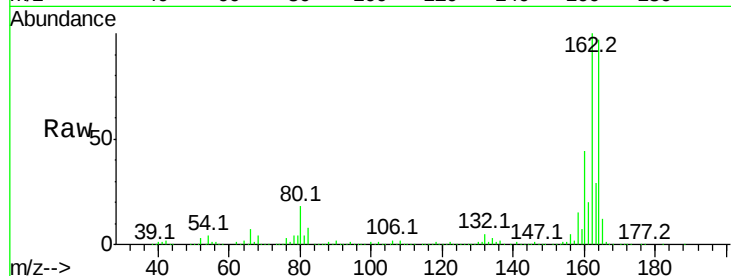




#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.86 min Scan# 698
 Delta R.T. -0.00 min
 Lab File: BF093824.D
 Acq: 22 Mar 2017 8:41

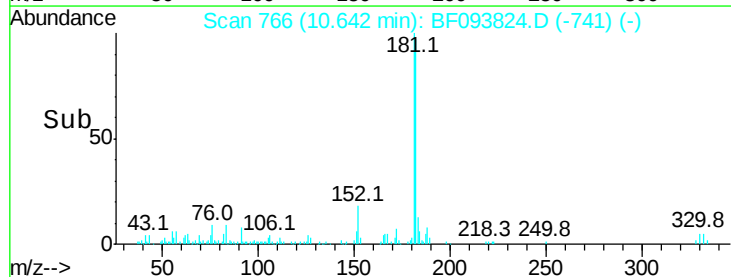
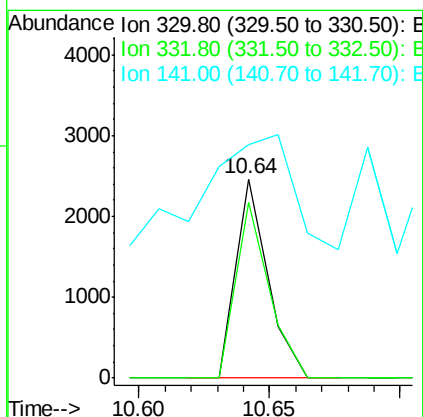
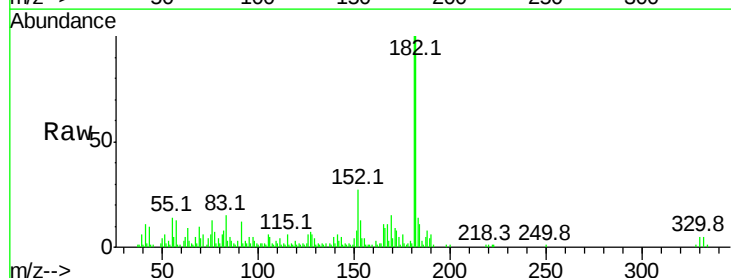
Instrument :
 BNA_F
 ClientSampled :

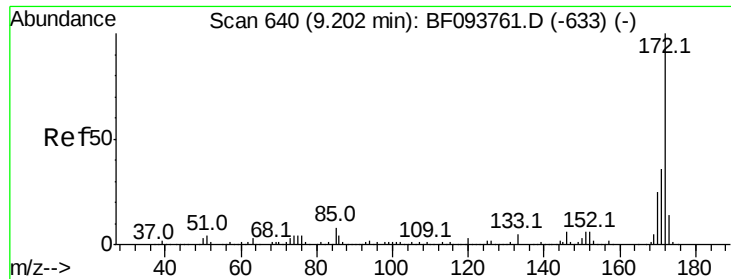
Tot Ion:164 Resp: 387459
 Ion Ratio Lower Upper
 164 100
 162 102.8 82.6 123.8
 160 45.4 36.2 54.2



#41
 2,4,6-Tribromophenol
 Concen: 0.71 ng
 RT: 10.64 min Scan# 766
 Delta R.T. -0.01 min
 Lab File: BF093824.D
 Acq: 22 Mar 2017 8:41

Tgt Ion:330 Resp: 2124
 Ion Ratio Lower Upper
 330 100
 332 91.8 76.6 115.0
 141 156.2 31.4 47.2#

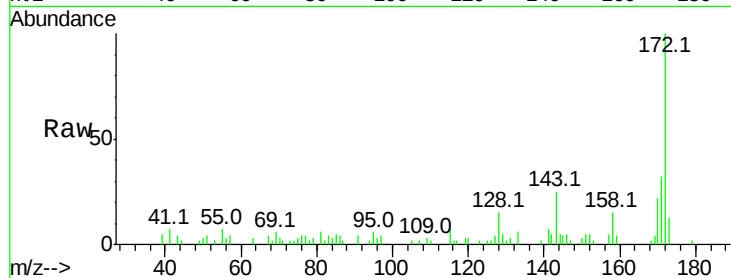




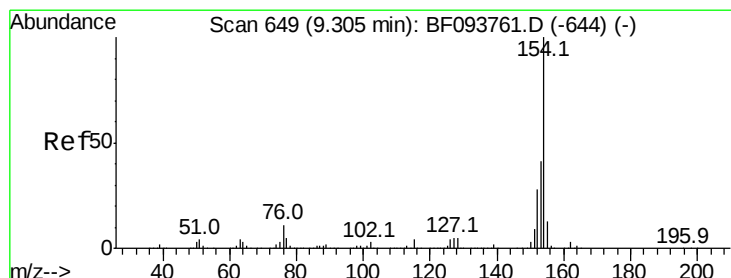
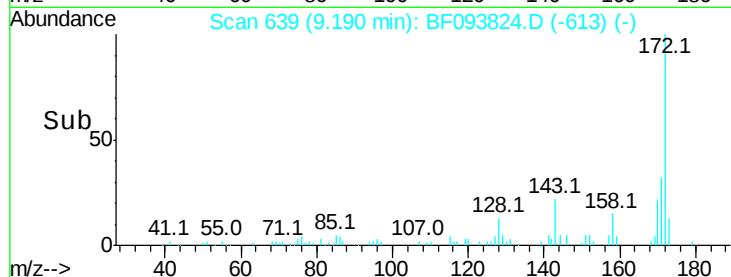
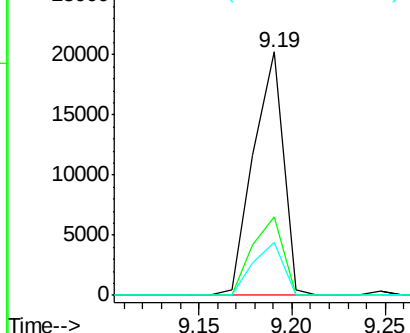
#44
2-Fluorobiphenyl
Concen: 0.98 ng
RT: 9.19 min Scan# 639
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Instrument :
BNA_F
ClientSampled :

Tot Ion:172 Resp: 22483
Ion Ratio Lower Upper
172 100
171 32.3 29.6 44.4
170 21.6 19.8 29.8

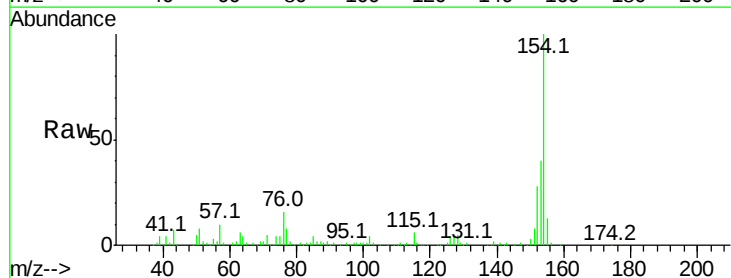


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

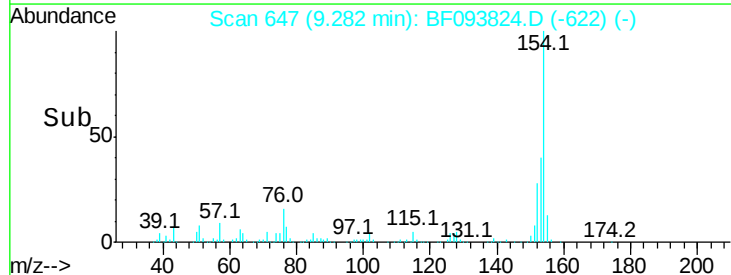
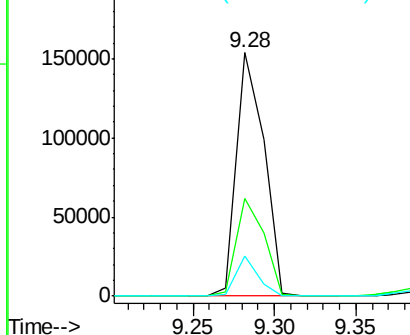


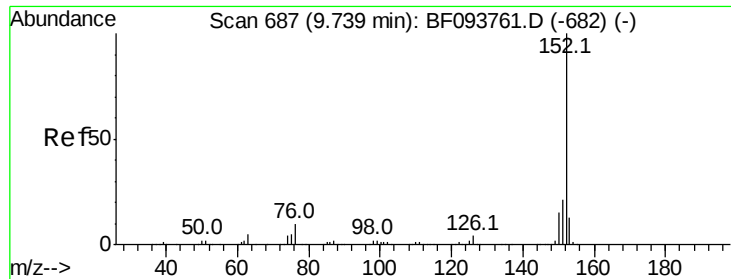
#45
1,1'-Biphenyl
Concen: 5.67 ng
RT: 9.28 min Scan# 647
Delta R.T. -0.01 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Tgt Ion:154 Resp: 178409
Ion Ratio Lower Upper
154 100
153 39.9 21.2 61.2
76 16.3 0.0 29.9



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): BF0





#48

Acenaphthylene

Concen: 15.63 ng

RT: 9.73 min Scan# 686

Delta R.T. -0.00 min

Lab File: BF093824.D

Acq: 22 Mar 2017 8:41

Instrument :

BNA_F

ClientSampleId :

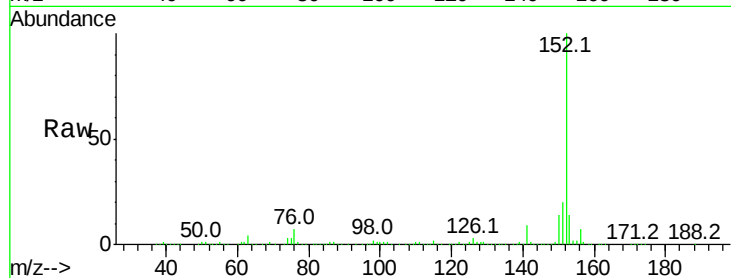
Tot Ion:152 Resp: 614054

Ion Ratio Lower Upper

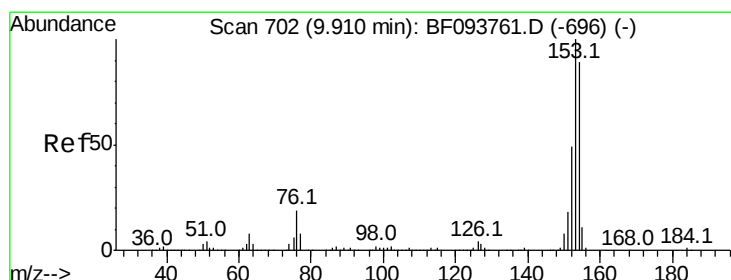
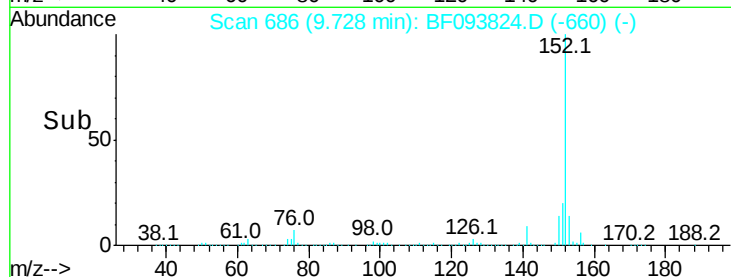
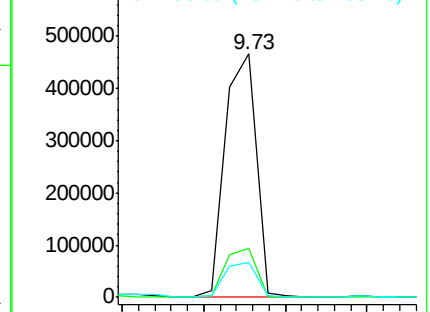
152 100

151 20.1 16.8 25.2

153 14.2 10.8 16.2



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



#51

Acenaphthene

Concen: 6.02 ng

RT: 9.90 min Scan# 701

Delta R.T. -0.00 min

Lab File: BF093824.D

Acq: 22 Mar 2017 8:41

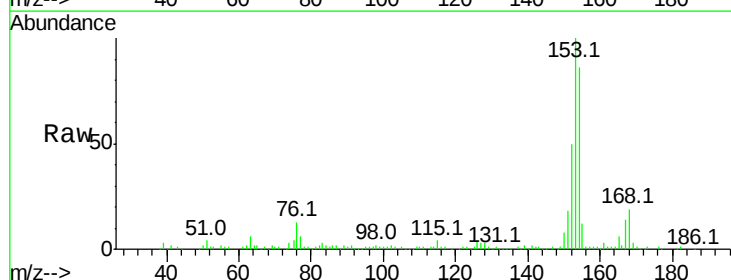
Tgt Ion:154 Resp: 141339

Ion Ratio Lower Upper

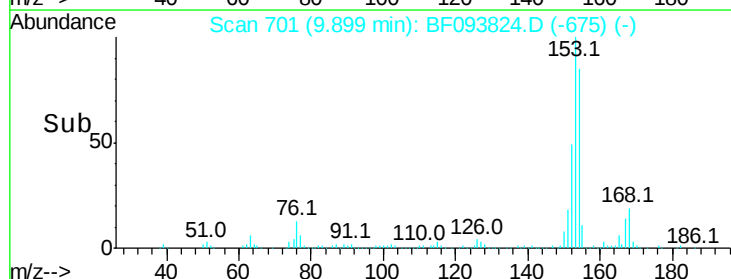
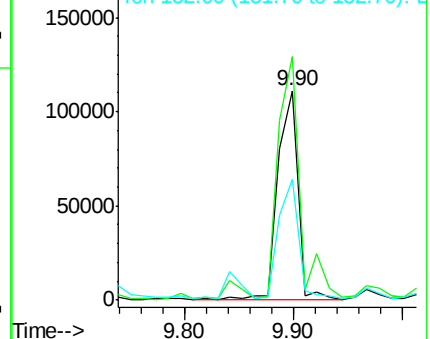
154 100

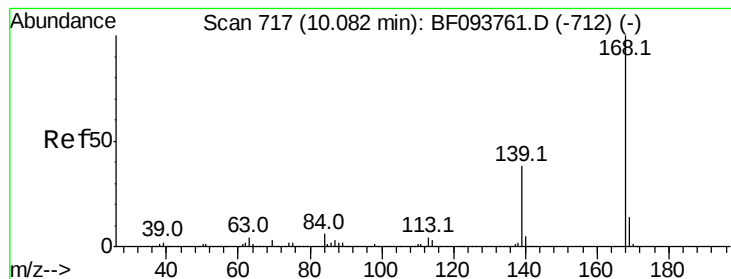
153 116.2 90.5 135.7

152 57.8 43.6 65.4



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

Dibenzenofuran

Concen: 7.47 ng

RT: 10.07 min Scan# 716

Delta R.T. -0.00 min

Lab File: BF093824.D

Acq: 22 Mar 2017 8:41

Instrument :

BNA_F

ClientSampleId :

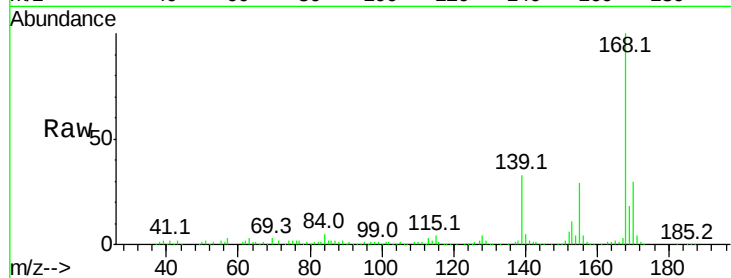
Tot Ion:168 Resp: 235960

Ion Ratio Lower Upper

168 100

139 32.8 30.6 45.8

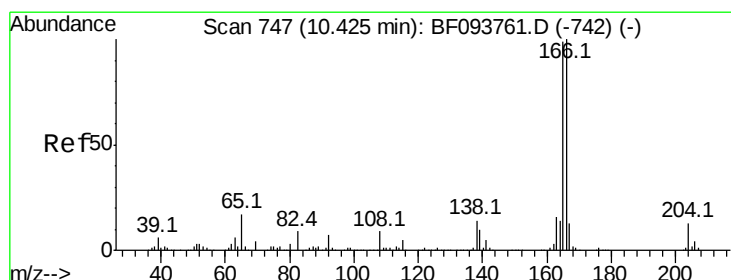
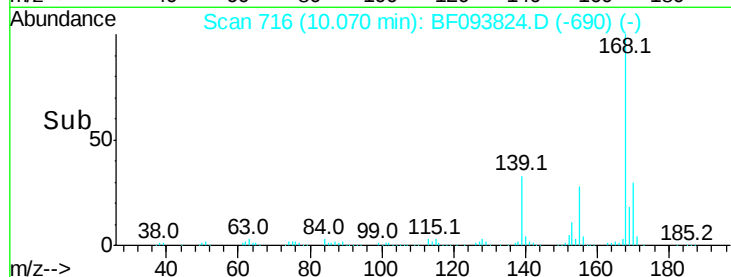
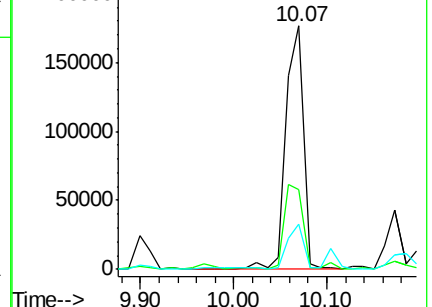
169 18.4 10.8 16.2#



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



#57

Fluorene

Concen: 25.22 ng

RT: 10.41 min Scan# 746

Delta R.T. -0.00 min

Lab File: BF093824.D

Acq: 22 Mar 2017 8:41

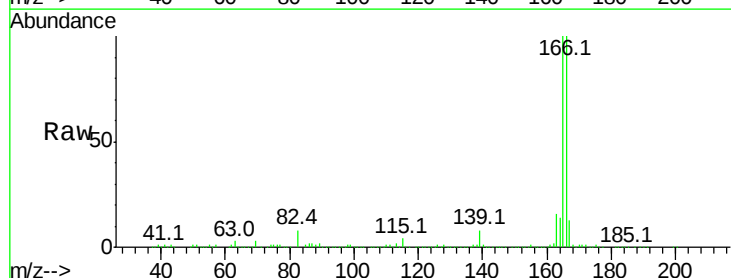
Tgt Ion:166 Resp: 609924

Ion Ratio Lower Upper

166 100

165 99.6 78.8 118.2

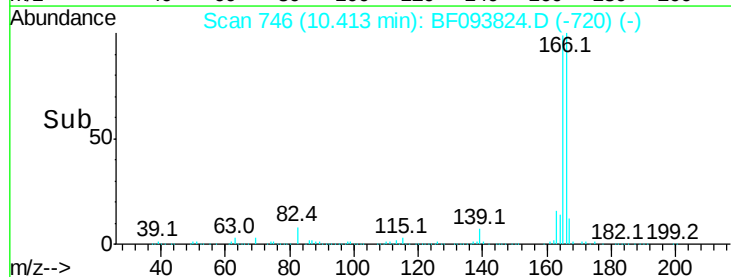
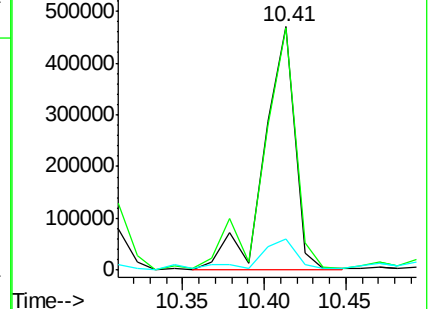
167 13.0 10.6 16.0

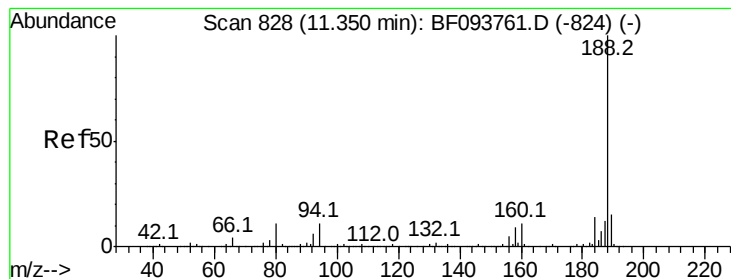


Abundance Ion 166.00 (165.70 to 166.70): E

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: 11.34 min Scan# 827

Delta R.T. -0.00 min

Lab File: BF093824.D

Acq: 22 Mar 2017 8:41

Instrument :

BNA_F

ClientSampleId :

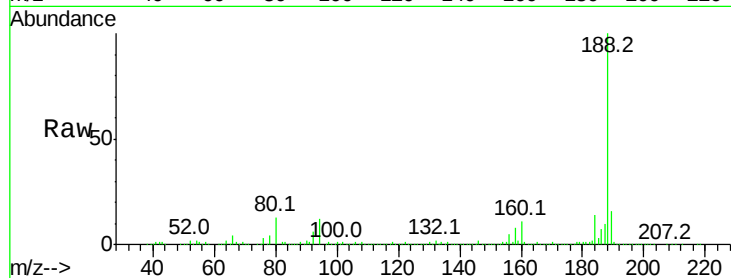
Tot Ion:188 Resp: 595590

Ion Ratio Lower Upper

188 100

94 12.4 9.4 14.2

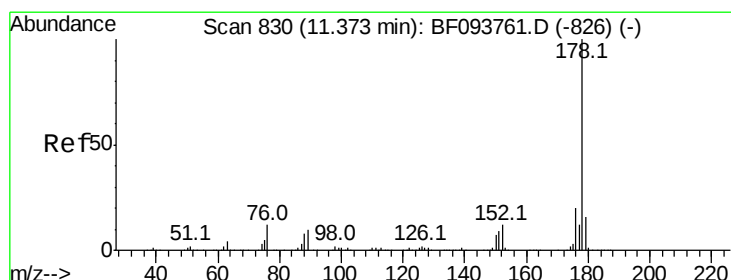
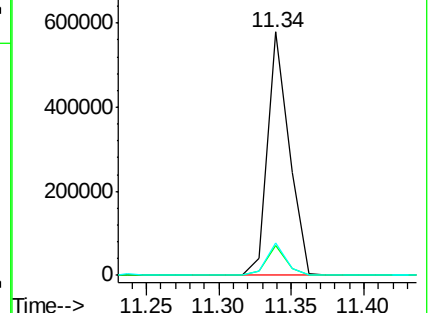
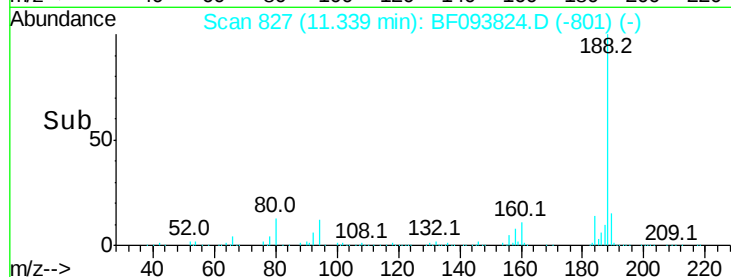
80 13.5 10.2 15.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0



#70

Phenanthrene

Concen: 65.42 ng

RT: 11.37 min Scan# 830

Delta R.T. 0.01 min

Lab File: BF093824.D

Acq: 22 Mar 2017 8:41

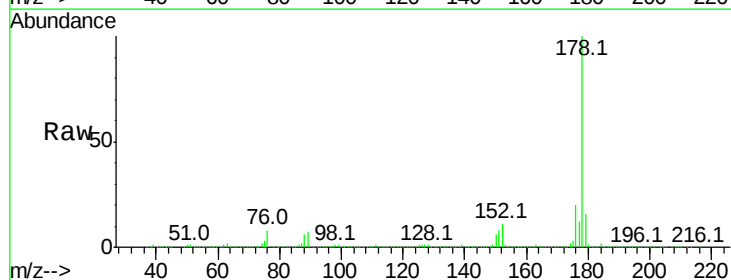
Tgt Ion:178 Resp: 2075065

Ion Ratio Lower Upper

178 100

176 20.3 16.2 24.4

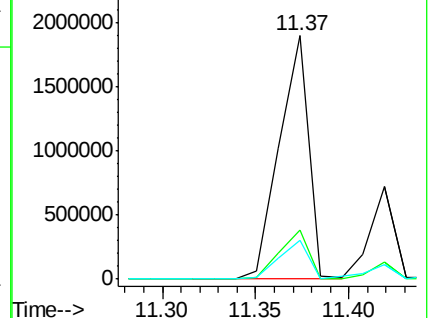
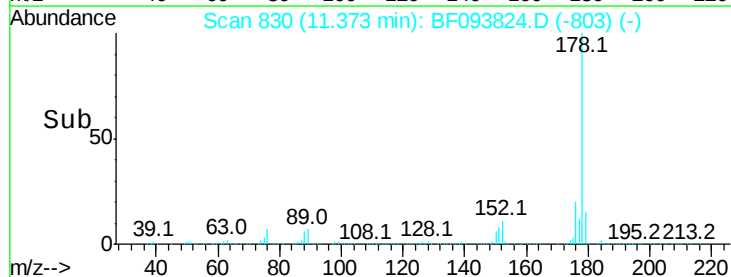
179 15.8 12.6 19.0

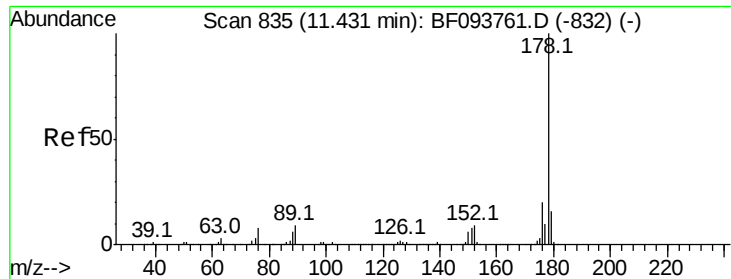


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

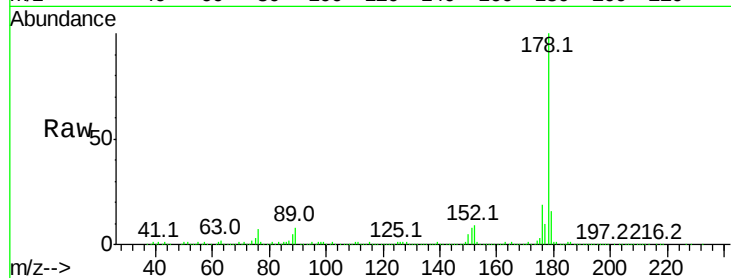




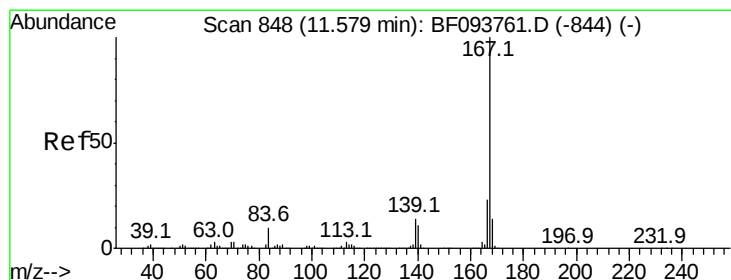
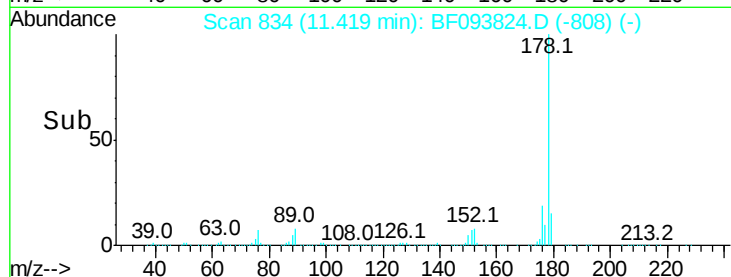
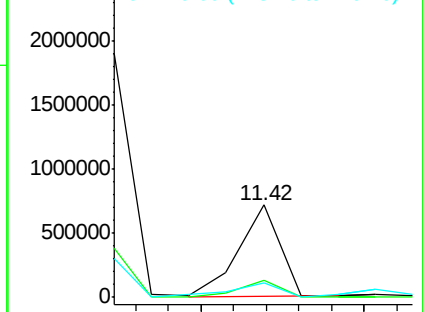
#71
 Anthracene
 Concen: 18.97 ng
 RT: 11.42 min Scan# 834
 Delta R.T. -0.00 min
 Lab File: BF093824.D
 Acq: 22 Mar 2017 8:41

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 619607
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.8 23.8
 179 15.7 12.7 19.1

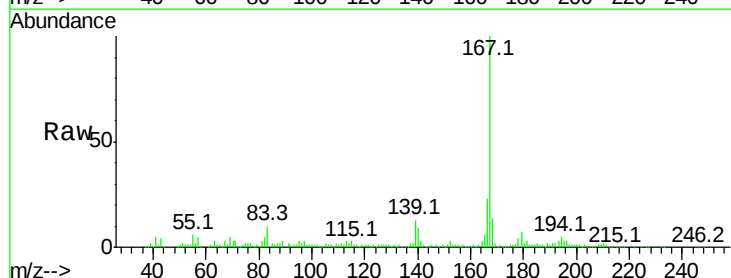


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

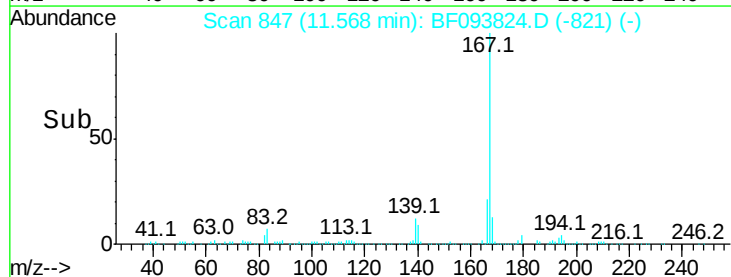
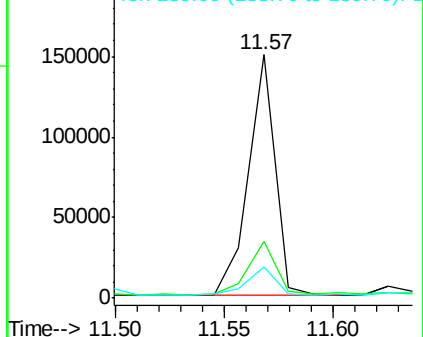


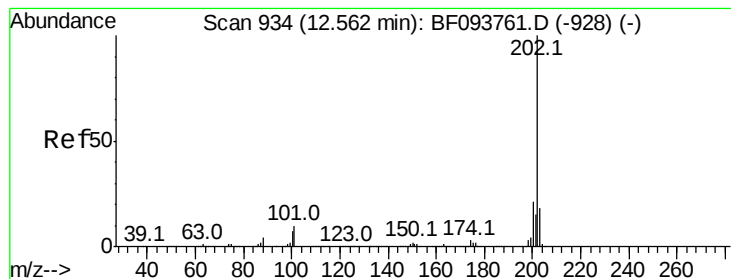
#72
 Carbazole
 Concen: 3.96 ng
 RT: 11.57 min Scan# 847
 Delta R.T. -0.00 min
 Lab File: BF093824.D
 Acq: 22 Mar 2017 8:41

Tgt Ion:167 Resp: 127980
 Ion Ratio Lower Upper
 167 100
 166 23.3 18.1 27.1
 139 12.9 11.7 17.5



Abundance Ion 167.00 (166.70 to 167.70): E
 Ion 166.00 (165.70 to 166.70): E
 Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 27.46 ng

RT: 12.55 min Scan# 933

Delta R.T. -0.00 min

Lab File: BF093824.D

Acq: 22 Mar 2017 8:41

Instrument :

BNA_F

ClientSampleId :

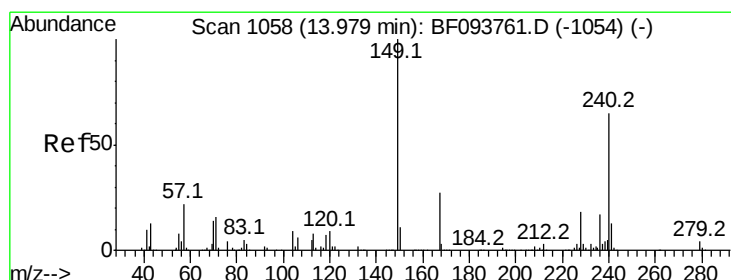
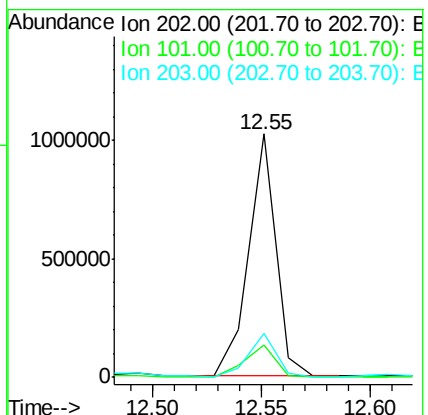
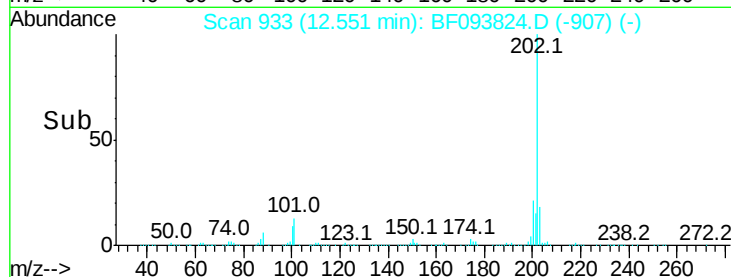
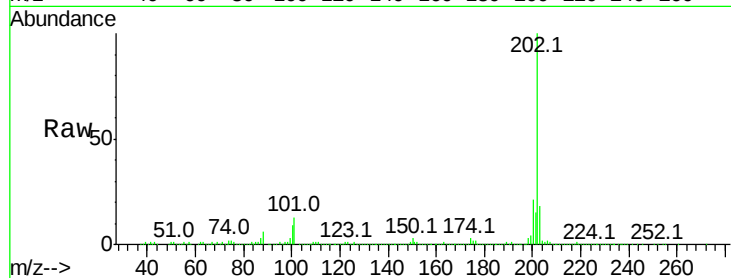
Tot Ion:202 Resp: 895250

Ion Ratio Lower Upper

202 100

101 13.2 0.0 33.2

203 18.0 0.0 38.1



#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.97 min Scan# 1057

Delta R.T. -0.00 min

Lab File: BF093824.D

Acq: 22 Mar 2017 8:41

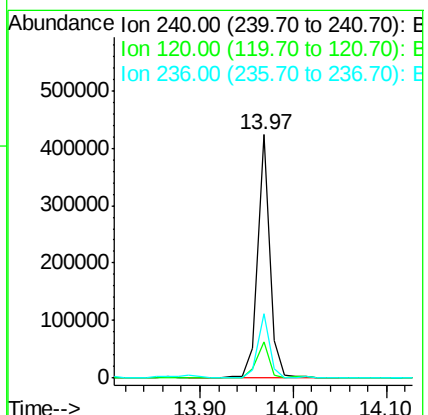
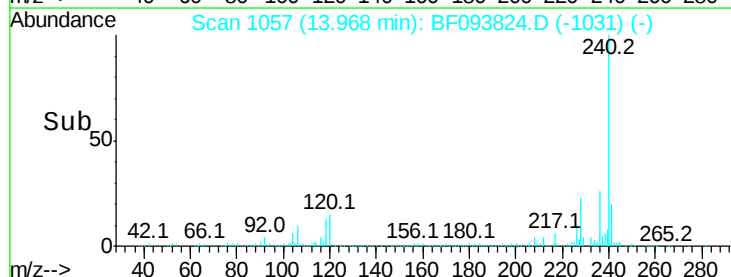
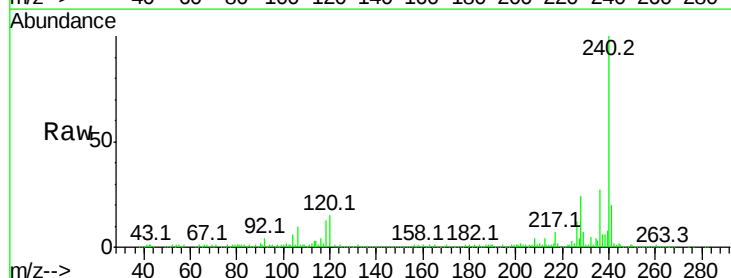
Tgt Ion:240 Resp: 378519

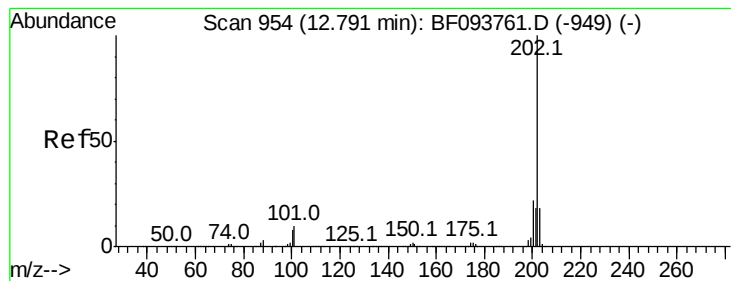
Ion Ratio Lower Upper

240 100

120 15.0 5.8 8.8#

236 26.6 20.5 30.7





#77

Pvrene

Concen: 38.13 ng

RT: 12.78 min Scan# 953

Delta R.T. -0.00 min

Lab File: BF093824.D

Acq: 22 Mar 2017 8:41

Instrument :

BNA_F

ClientSampleId :

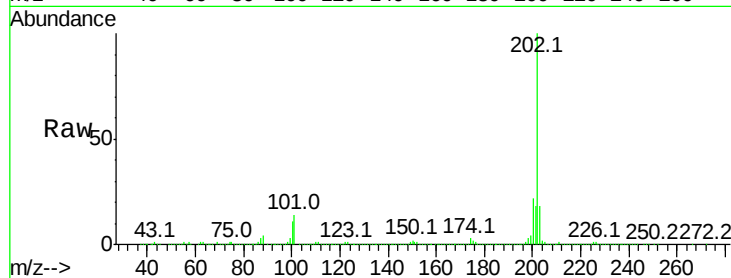
Tot Ion:202 Resp: 1200964

Ion Ratio Lower Upper

202 100

200 22.0 17.6 26.4

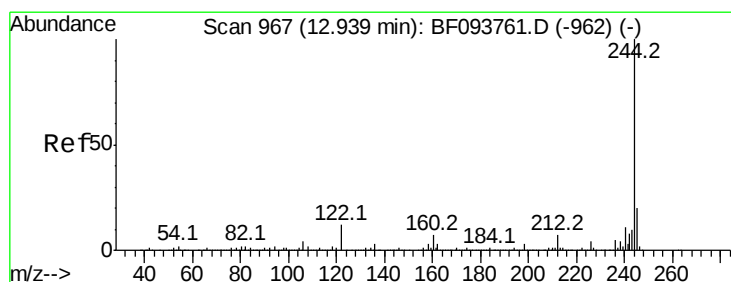
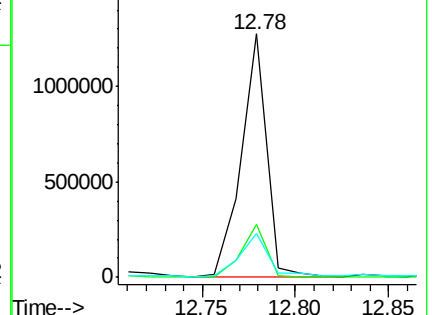
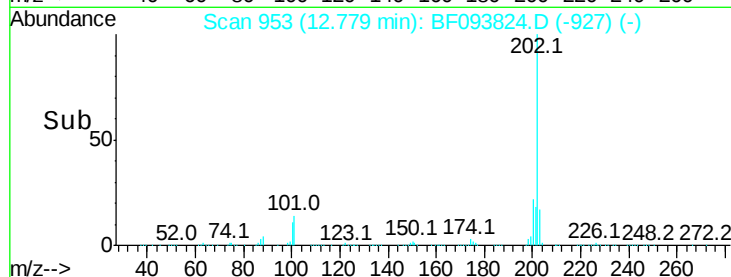
203 17.8 14.4 21.6



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: 0.81 ng

RT: 12.92 min Scan# 965

Delta R.T. -0.01 min

Lab File: BF093824.D

Acq: 22 Mar 2017 8:41

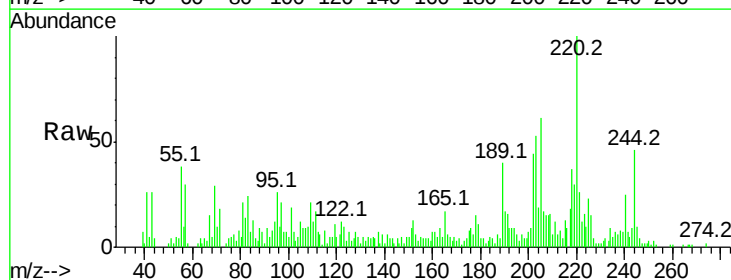
Tgt Ion:244 Resp: 15027

Ion Ratio Lower Upper

244 100

212 14.1 6.0 9.0#

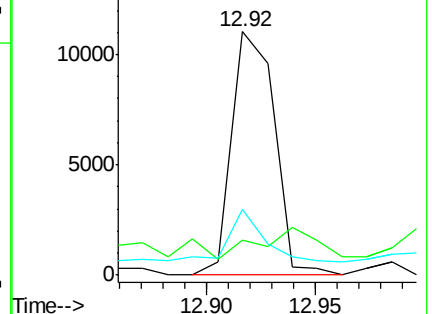
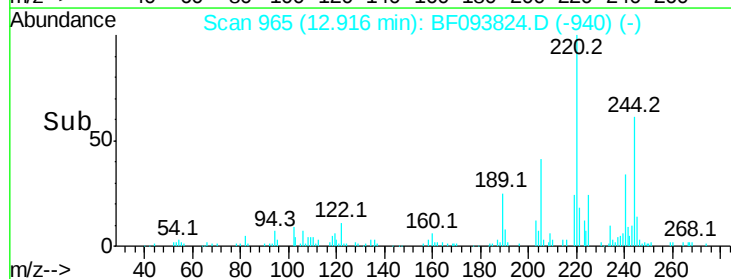
122 26.8 10.3 15.5#

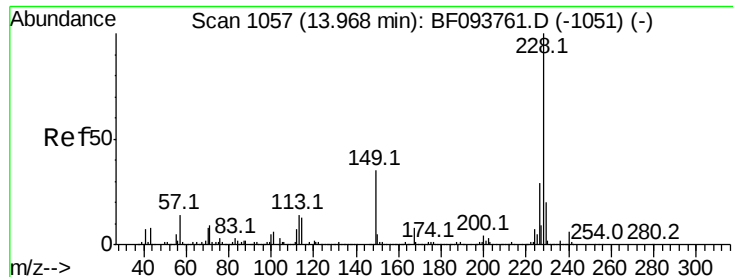


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 15.99 ng

RT: 13.96 min Scan# 1056

Delta R.T. -0.00 min

Lab File: BF093824.D

Acq: 22 Mar 2017 8:41

Instrument :

BNA_F

ClientSampleId :

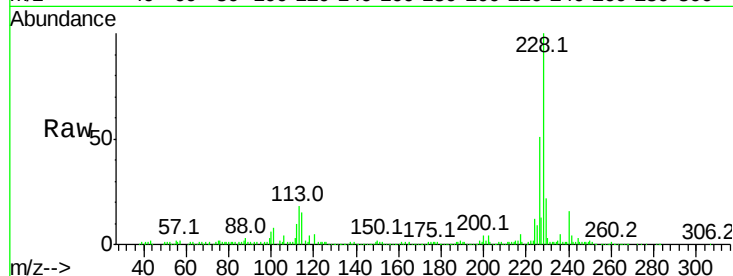
Tot Ion:228 Resp: 379044

Ion Ratio Lower Upper

228 100

226 50.6 22.6 33.8#

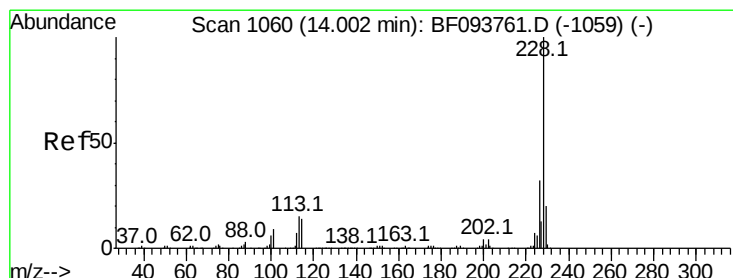
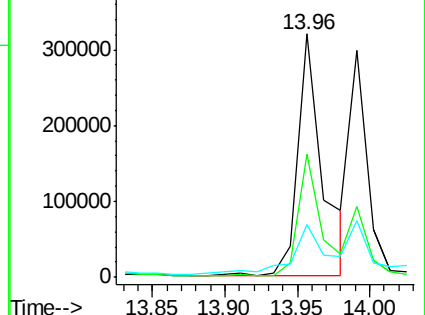
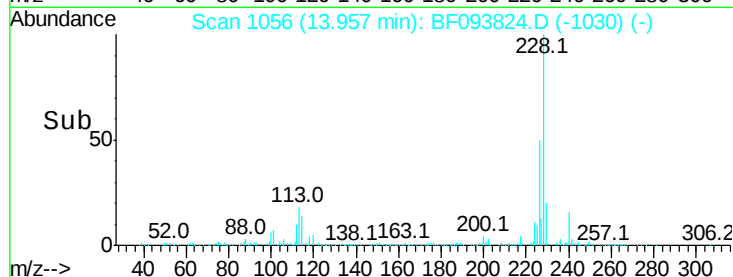
229 21.9 16.3 24.5



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: 16.00 ng

RT: 13.96 min Scan# 1056

Delta R.T. -0.05 min

Lab File: BF093824.D

Acq: 22 Mar 2017 8:41

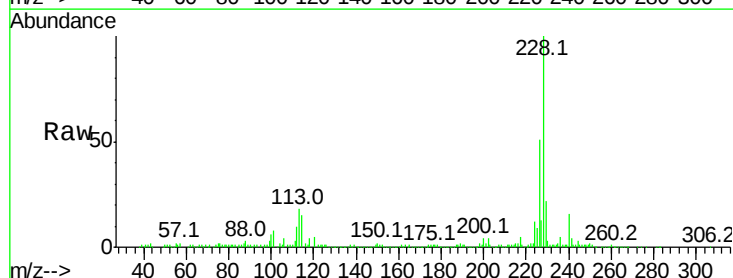
Tgt Ion:228 Resp: 379044

Ion Ratio Lower Upper

228 100

226 50.6 24.9 37.3#

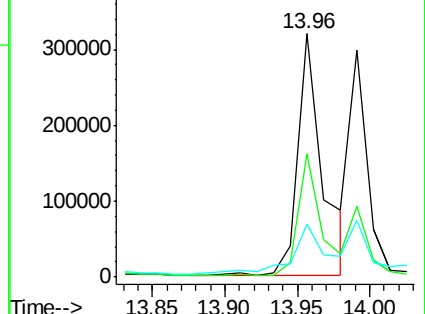
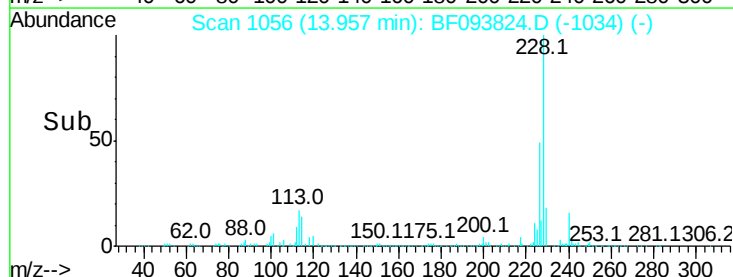
229 21.9 15.8 23.6

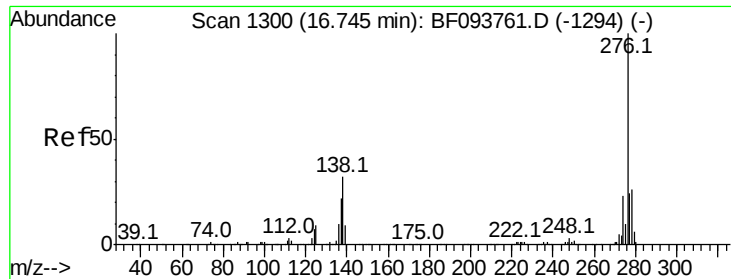


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

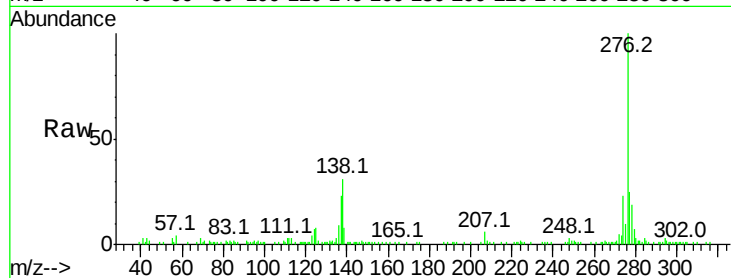




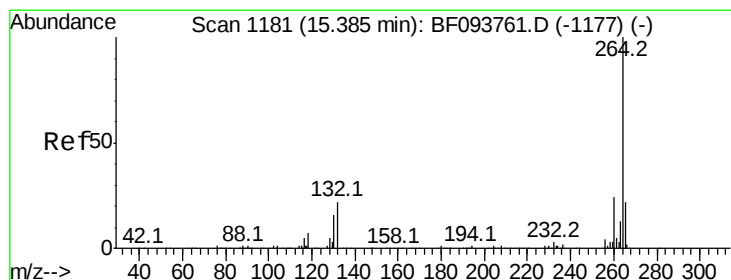
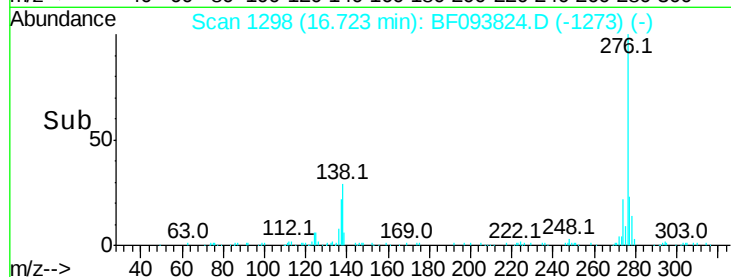
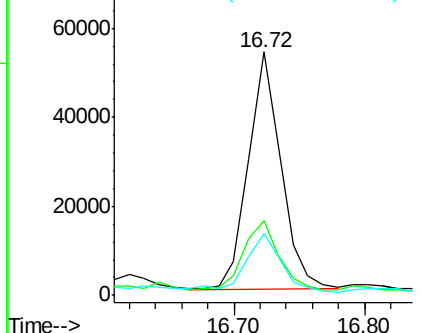
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 4.81 ng
 RT: 16.72 min Scan# 1298
 Delta R.T. -0.01 min
 Lab File: BF093824.D
 Acq: 22 Mar 2017 8:41

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
138	30.9	27.8	41.6
277	27.3	20.2	30.4

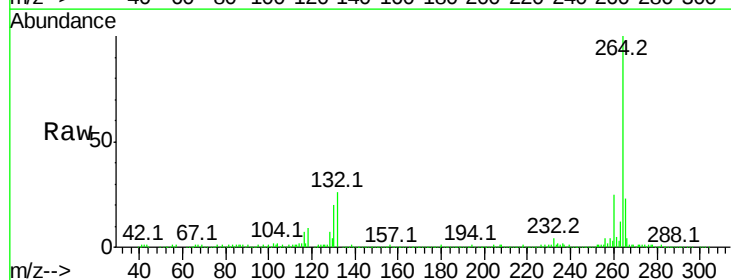


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

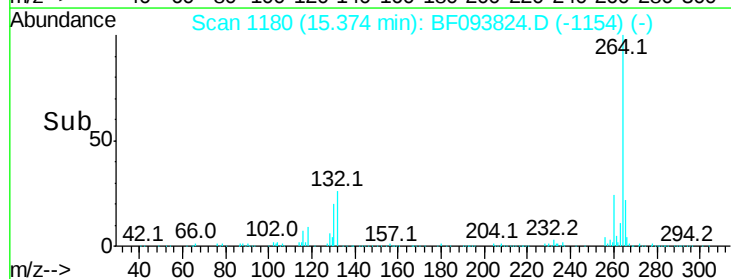
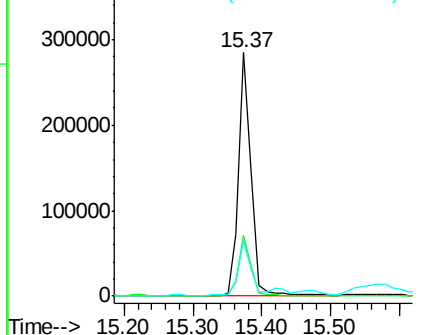


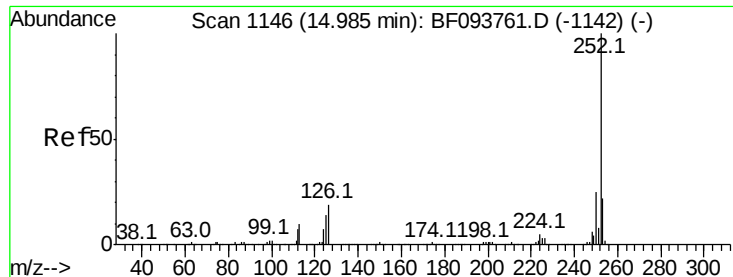
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.37 min Scan# 1180
 Delta R.T. -0.00 min
 Lab File: BF093824.D
 Acq: 22 Mar 2017 8:41

Tgt Ion	Ratio	Lower	Upper
264	100		
260	24.7	19.5	29.3
265	22.5	17.2	25.8



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

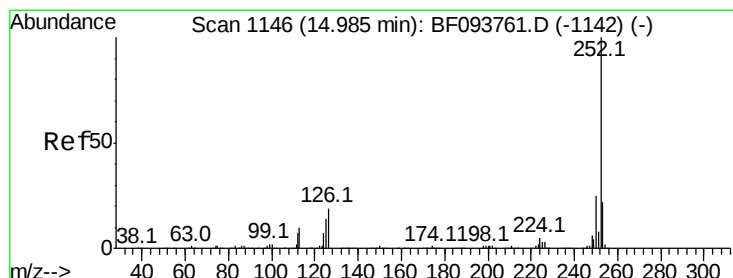
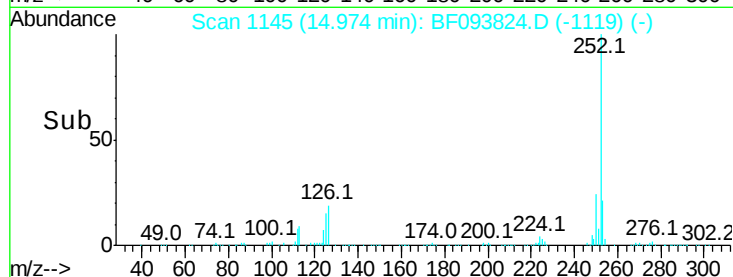
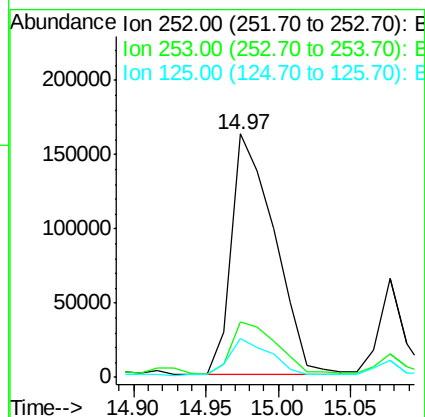
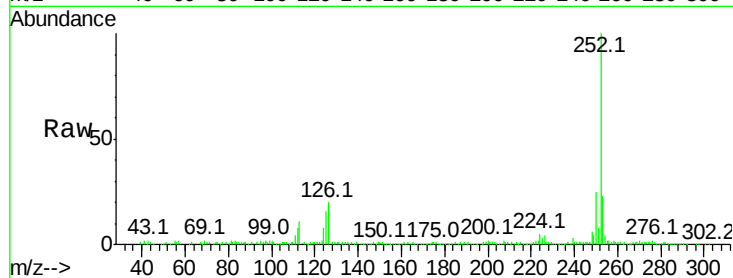




#87
Benzo(b)fluoranthene
Concen: 13.44 ng
RT: 14.97 min Scan# 1145
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

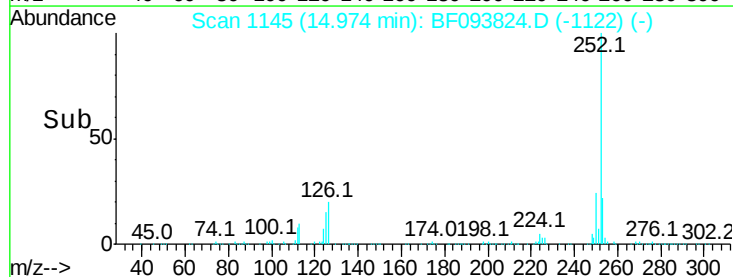
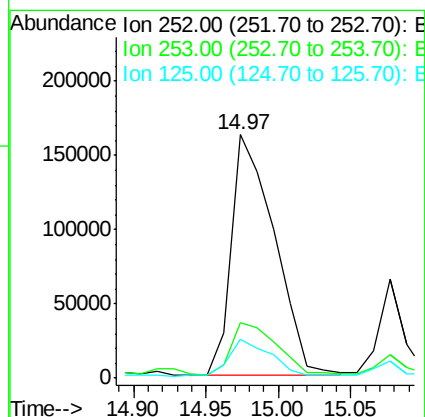
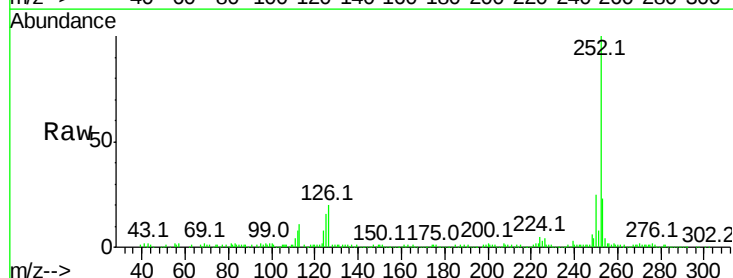
Instrument :
BNA_F
ClientSampleId :

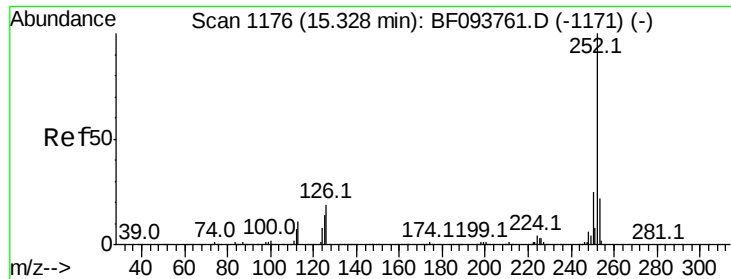
Tot Ion:252 Resp: 333199
Ion Ratio Lower Upper
252 100
253 22.7 18.1 27.1
125 16.0 9.8 14.8#



#88
Benzo(k)fluoranthene
Concen: 18.19 ng
RT: 14.97 min Scan# 1145
Delta R.T. -0.03 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Tgt Ion:252 Resp: 333199
Ion Ratio Lower Upper
252 100
253 22.7 18.4 27.6
125 16.0 13.1 19.7

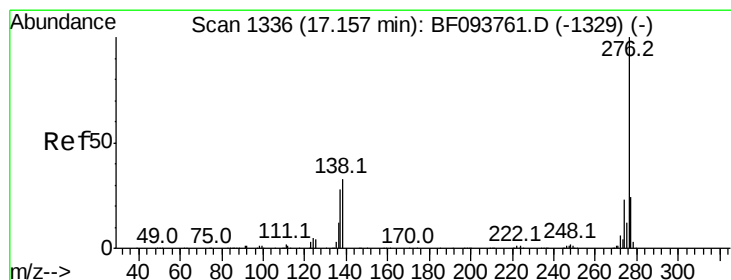
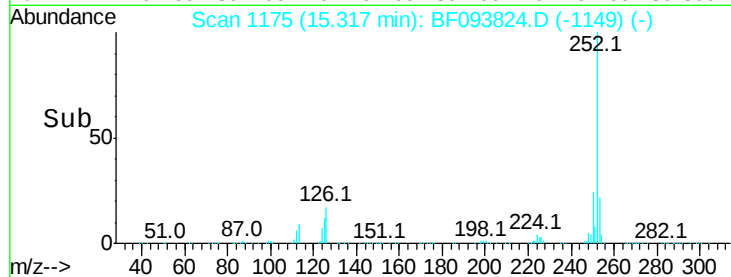
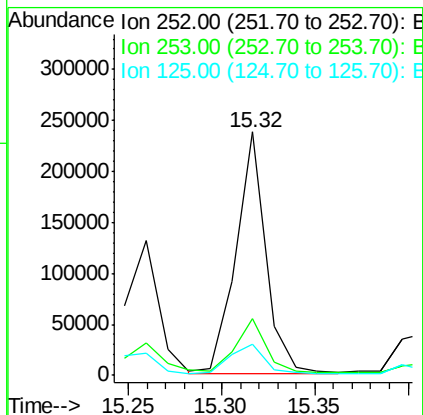
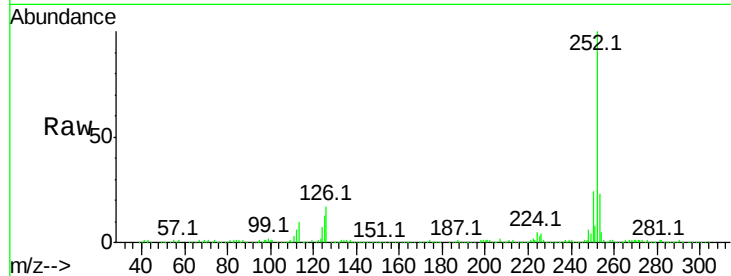




#89
Benzo(a)pyrene
Concen: 13.30 ng
RT: 15.32 min Scan# 1175
Delta R.T. -0.00 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 267455
Ion Ratio Lower Upper
252 100
253 23.3 17.5 26.3
125 12.7 11.0 16.4



#91
Benzo(g,h,i)perylene
Concen: 6.64 ng
RT: 17.13 min Scan# 1334
Delta R.T. -0.01 min
Lab File: BF093824.D
Acq: 22 Mar 2017 8:41

Tgt Ion:276 Resp: 110091
Ion Ratio Lower Upper
276 100
277 23.3 18.6 28.0
138 28.6 25.4 38.0

