

Data Path : Z:\HPCHEM1\BNA F\Data\BF040317\
 Data File : BF094161.D
 Acq On : 4 Apr 2017 11:16
 Operator : SJ/MA
 Sample : I2510-12 2X
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 04 11:55:36 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF032217.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Mar 31 14:38:29 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.89	152	172812	20.00	ng	-0.02
21) Naphthalene-d8	7.39	136	636836	20.00	ng	-0.02
38) Acenaphthene-d10	9.54	164	222090	20.00	ng	-0.01
63) Phenanthrene-d10	11.37	188	341021	20.00	ng	0.00
75) Chrysene-d12	14.63	240	276862	20.00	ng	0.00
86) Perylene-d12	16.26	264	221514	20.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	4.42	112	507536	49.60	ng	-0.01
7) Phenol-d6	5.49	99	615056	48.59	ng	-0.02
23) Nitrobenzene-d5	6.53	82	309096	27.70	ng	-0.02
41) 2,4,6-Tribromophenol	10.52	330	75817	43.20	ng	0.00
44) 2-Fluorobiphenyl	8.72	172	499525	34.31	ng	-0.02
78) Terphenyl-d14	13.34	244	293711	23.78	ng	0.00

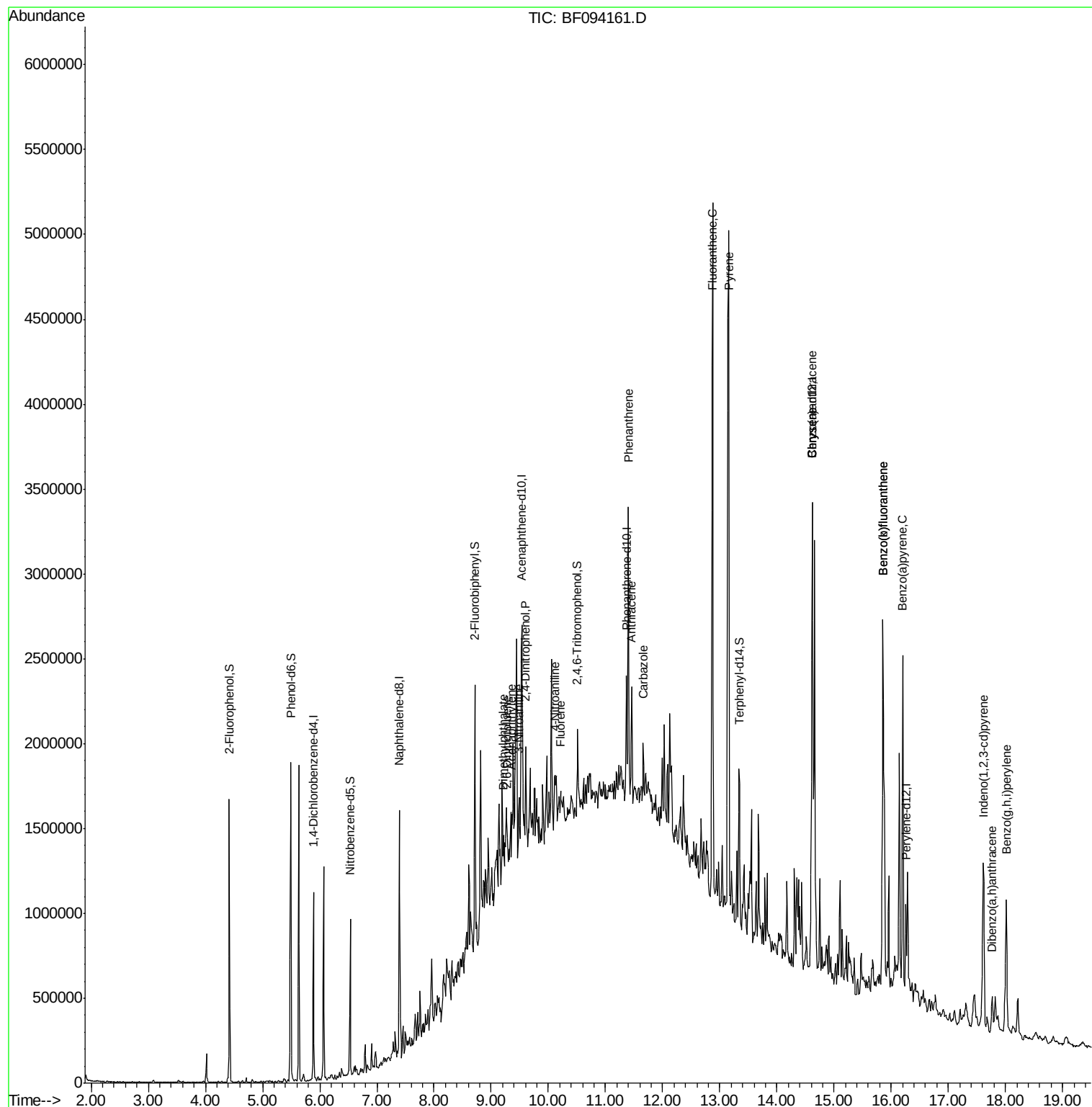
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
48) Acenaphthylene	9.36	152	163911	7.03	ng	94
49) Dimethylphthalate	9.22	163	72479	4.59	ng	# 87
50) 2,6-Dinitrotoluene	9.28	165	11036	3.05	ng	# 40
52) 3-Nitroaniline	9.49	138	15821	3.72	ng	# 13
53) 2,4-Dinitrophenol	9.61	184	114	4.72	ng	# 1
57) Fluorene	10.22	166	37940	2.47	ng	# 79
61) 4-Nitroaniline	10.11	138	26137	6.41	ng	85
70) Phenanthrene	11.40	178	796008	41.96	ng	99
71) Anthracene	11.46	178	320688	16.42	ng	98
72) Carbazole	11.66	167	137331	6.86	ng	95
74) Fluoranthene	12.88	202	2658279	136.85	ng	100
77) Pvrene	13.16	202	2611789	129.99	ng	100
80) Benzo(a)anthracene	14.62	228	1442131	89.33	ng	98
82) Chrysene	14.62	228	1442131	96.26	ng	97
85) Indeno(1,2,3-cd)pyrene	17.62	276	620785	47.84	ng	96
87) Benzo(b)fluoranthene	15.86	252	1812990	133.52	ng	# 96
88) Benzo(k)fluoranthene	15.86	252	1812990	136.47	ng	98
89) Benzo(a)pyrene	16.21	252	980072	78.38	ng	98
90) Dibenzo(a,h)anthracene	17.77	278	123387	11.65	ng	94
91) Benzo(a,h,i)perylene	18.02	276	604282	56.62	ng	99

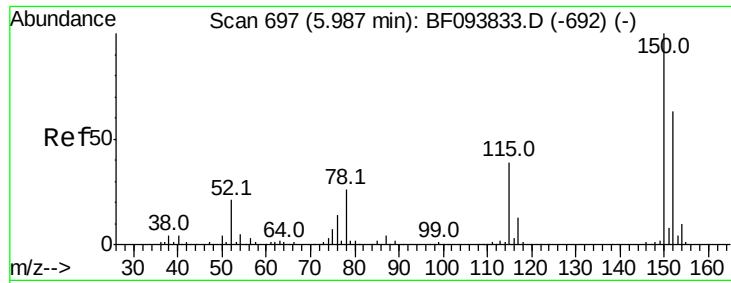
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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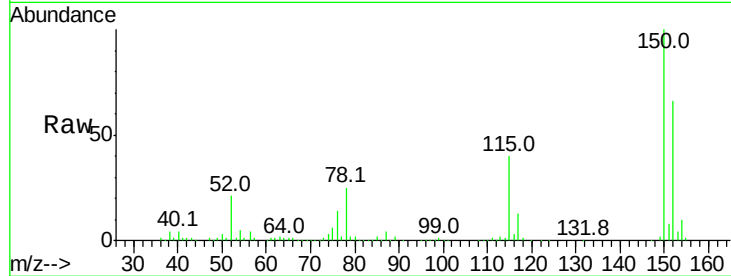


#1

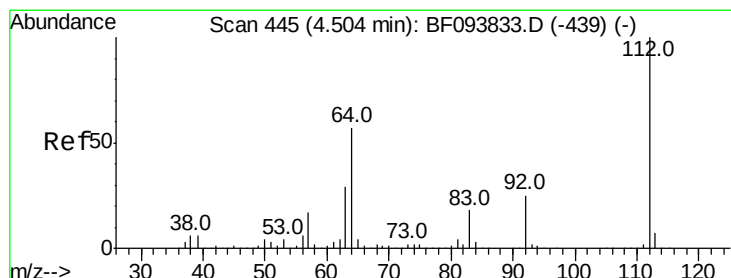
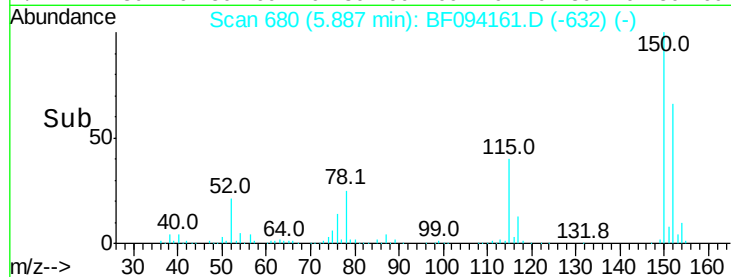
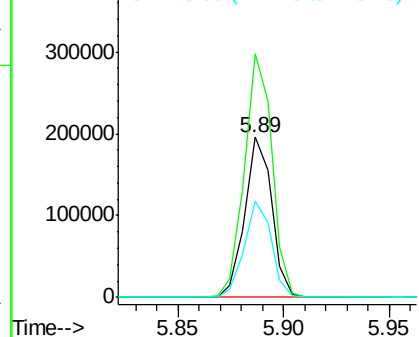
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 5.89 min Scan# 680
Delta R.T. -0.02 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 172812
Ion Ratio Lower Upper
152 100
150 151.9 126.2 189.2
115 60.4 52.2 78.2



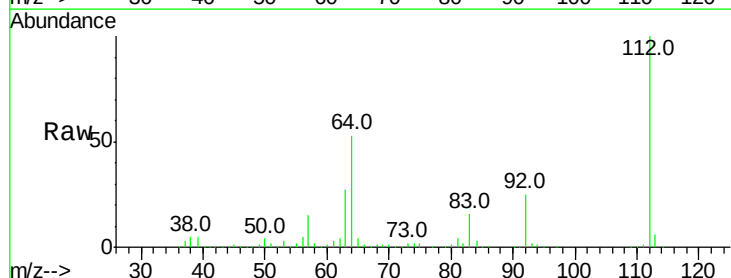
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



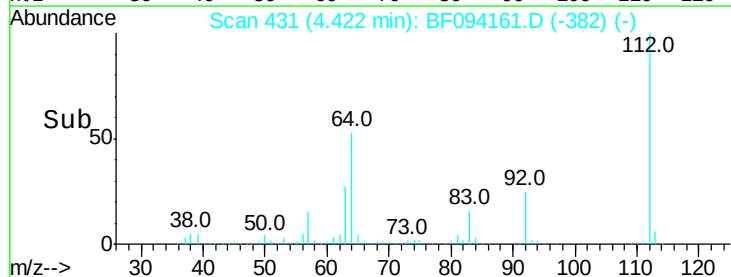
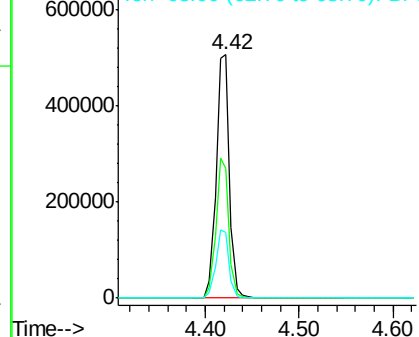
#5

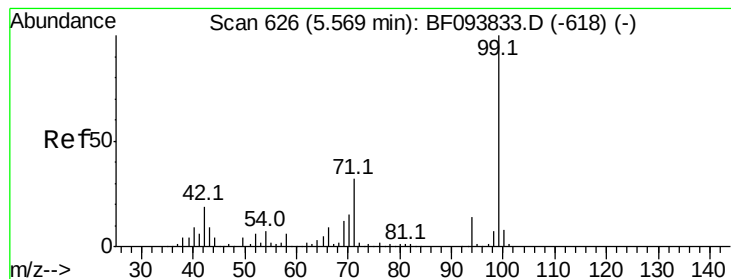
2-Fluorophenol
Concen: 49.60 ng
RT: 4.42 min Scan# 431
Delta R.T. -0.01 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

Tgt Ion:112 Resp: 507536
Ion Ratio Lower Upper
112 100
64 53.3 46.0 69.0
63 27.1 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: 48.59 ng

RT: 5.49 min Scan# 613

Delta R.T. -0.02 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

Instrument :

BNA_F

ClientSampled :

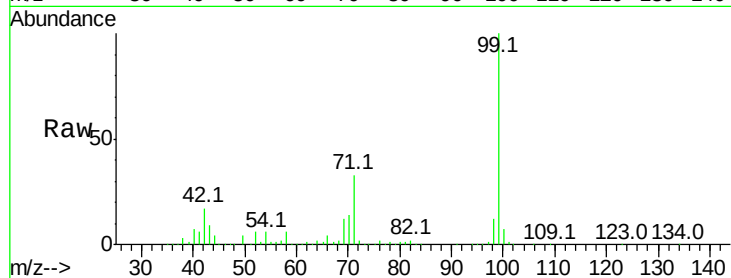
Tot Ion: 99 Resp: 615056

Ion Ratio Lower Upper

99 100

42 17.3 13.5 20.3

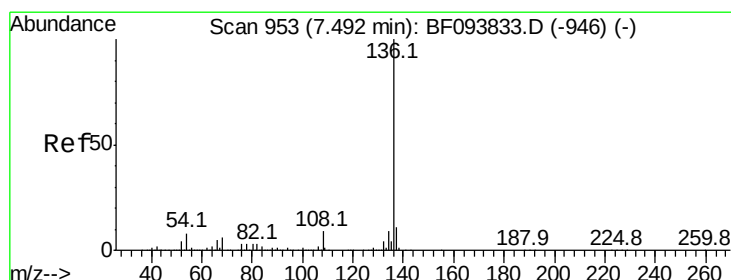
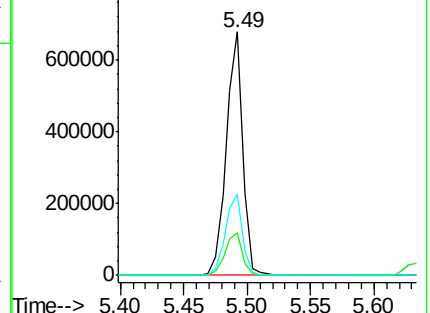
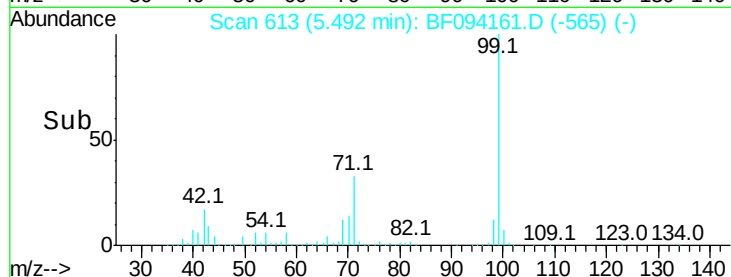
71 33.4 24.5 36.7



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: 7.39 min Scan# 936

Delta R.T. -0.02 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

Tgt Ion: 136 Resp: 636836

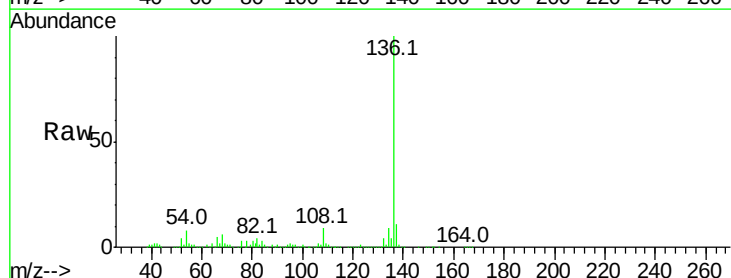
Ion Ratio Lower Upper

136 100

137 11.4 8.5 12.7

54 7.6 4.9 7.3#

68 6.1 4.1 6.1#

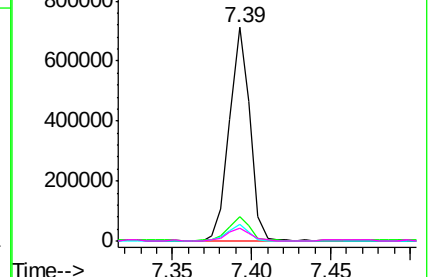
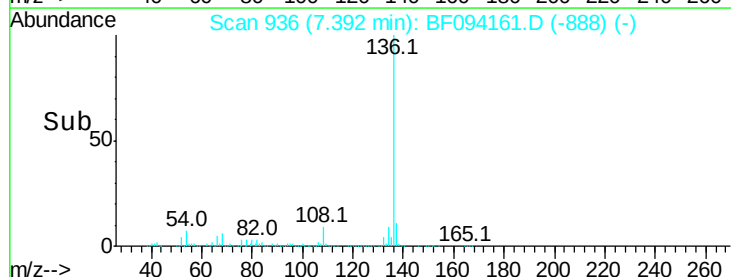


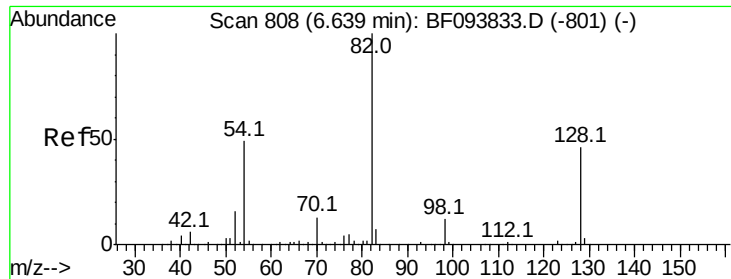
Abundance Ion 136.00 (135.70 to 136.70): E

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

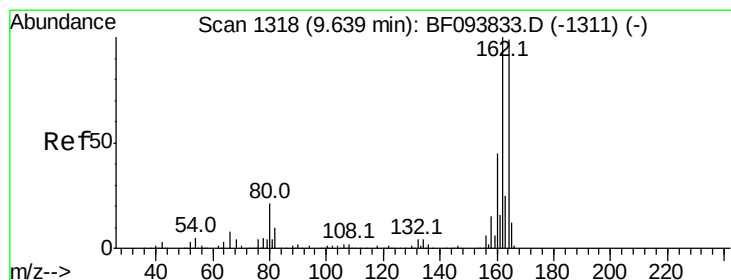
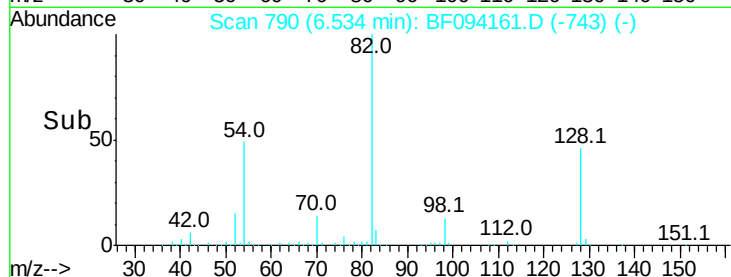
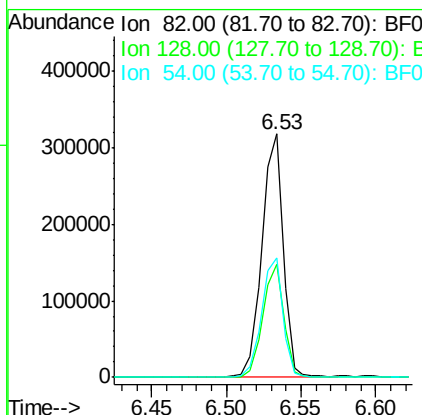
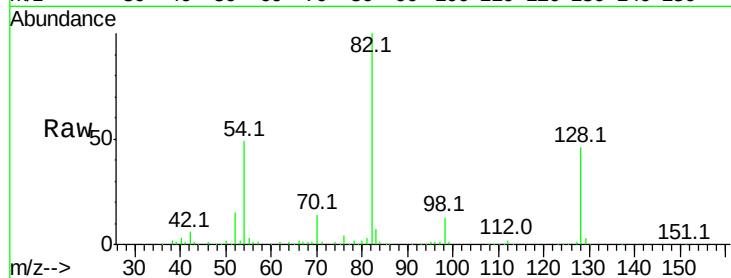




#23
 Nitrobenzene-d5
 Concen: 27.70 ng
 RT: 6.53 min Scan# 790
 Delta R.T. -0.02 min
 Lab File: BF094161.D
 Acq: 4 Apr 2017 11:16

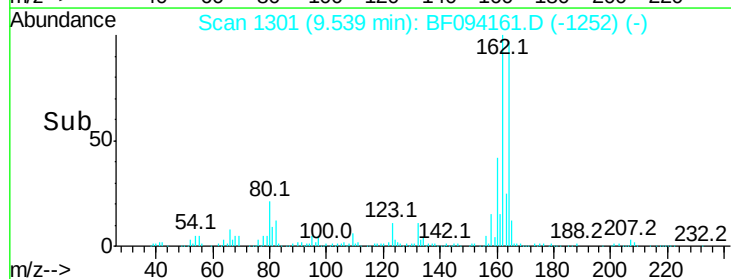
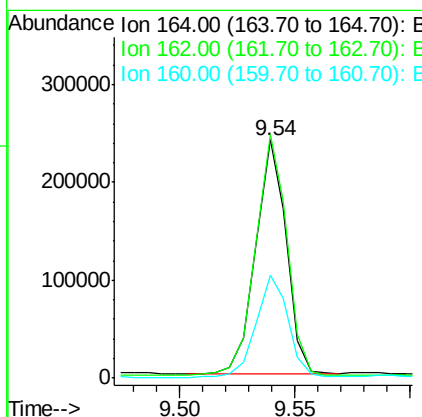
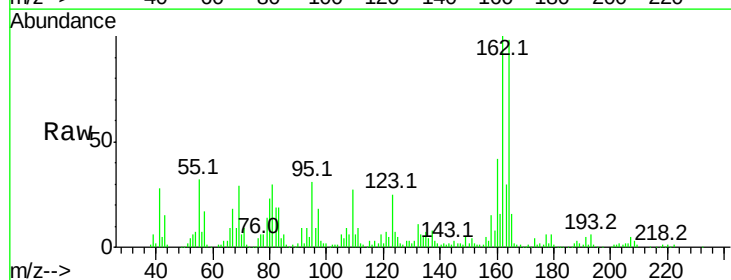
Instrument :
 BNA_F
 ClientSampled :

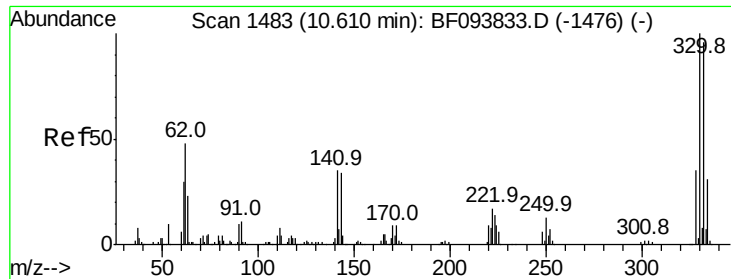
Tot Ion	82	Resp	309096
Ion	Ratio	Lower	Upper
82	100		
128	46.3	34.0	51.0
54	49.3	42.2	63.2



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.54 min Scan# 1301
 Delta R.T. -0.01 min
 Lab File: BF094161.D
 Acq: 4 Apr 2017 11:16

Tgt Ion	164	Resp	222090
Ion	Ratio	Lower	Upper
164	100		
162	102.2	82.6	123.8
160	43.4	36.2	54.2

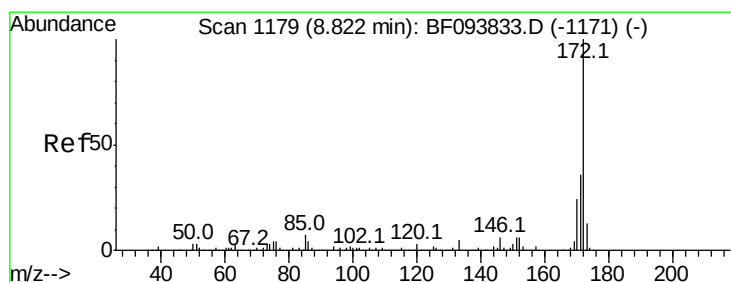
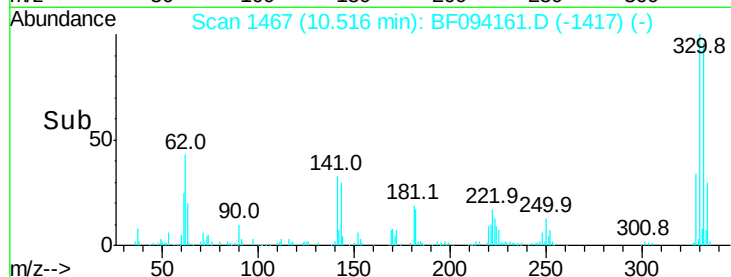
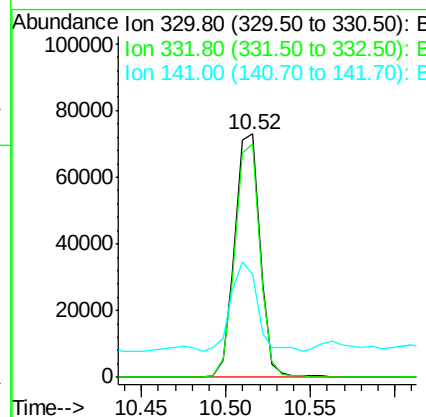
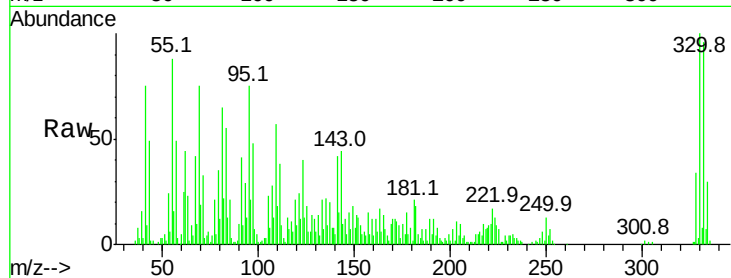




#41
 2,4,6-Tribromophenol
 Concen: 43.20 ng
 RT: 10.52 min Scan# 1467
 Delta R.T. -0.01 min
 Lab File: BF094161.D
 Acq: 4 Apr 2017 11:16

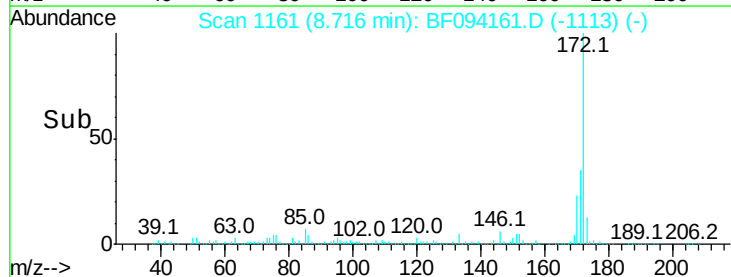
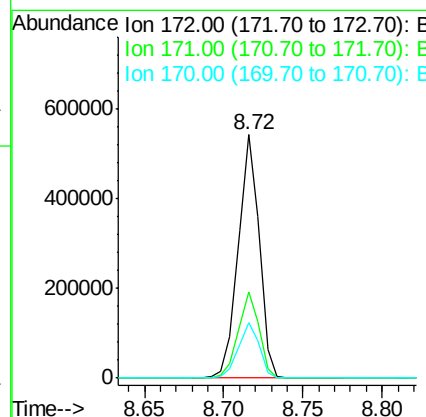
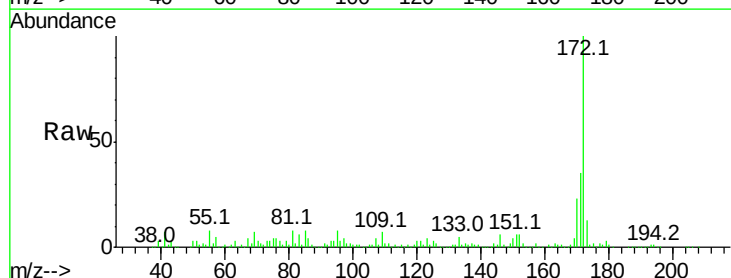
Instrument :
 BNA_F
 ClientSampled :

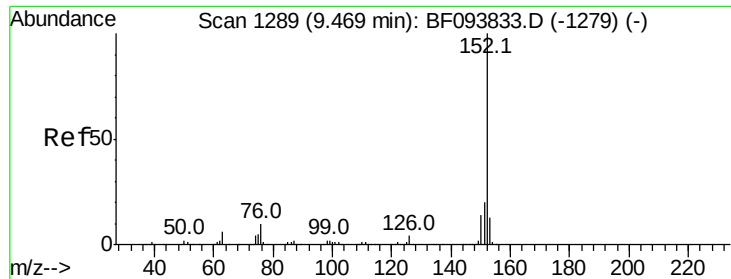
Tot Ion:330 Resp: 75817
 Ion Ratio Lower Upper
 330 100
 332 95.3 76.6 115.0
 141 37.7 31.4 47.2



#44
 2-Fluorobiphenyl
 Concen: 34.31 ng
 RT: 8.72 min Scan# 1161
 Delta R.T. -0.02 min
 Lab File: BF094161.D
 Acq: 4 Apr 2017 11:16

Tgt Ion:172 Resp: 499525
 Ion Ratio Lower Upper
 172 100
 171 35.4 29.6 44.4
 170 22.9 19.8 29.8





#48

Acenaphthylene

Concen: 7.03 ng

RT: 9.36 min Scan# 1271

Delta R.T. -0.02 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

Instrument :

BNA_F

ClientSampleId :

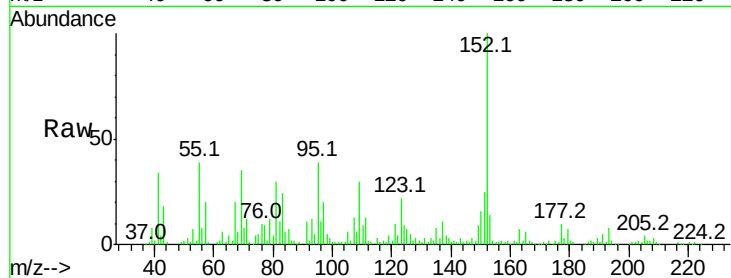
Tot Ion:152 Resp: 163911

Ion Ratio Lower Upper

152 100

151 25.0 16.8 25.2

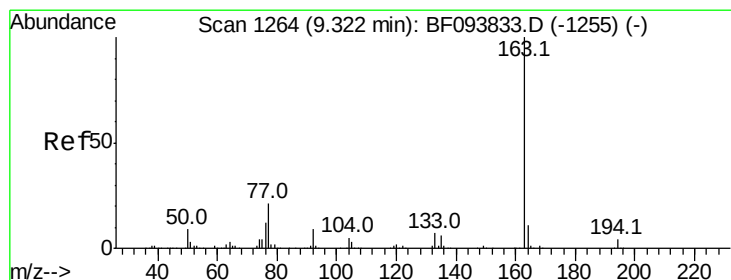
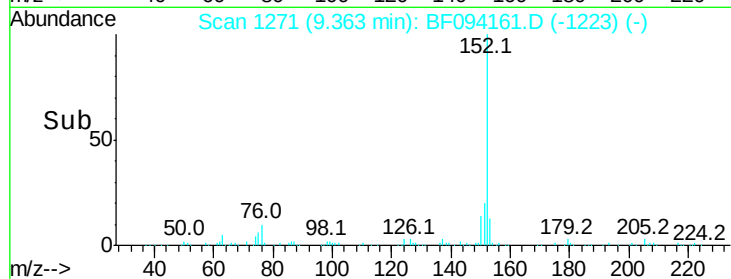
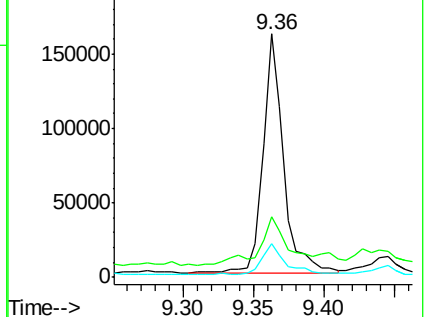
153 14.1 10.8 16.2



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



#49

Dimethylphthalate

Concen: 4.59 ng

RT: 9.22 min Scan# 1246

Delta R.T. -0.03 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

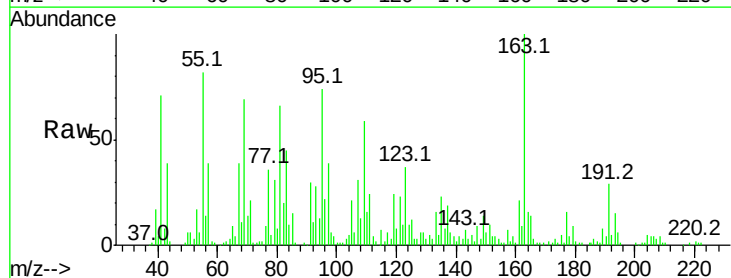
Tgt Ion:163 Resp: 72479

Ion Ratio Lower Upper

163 100

194 6.4 2.6 4.0#

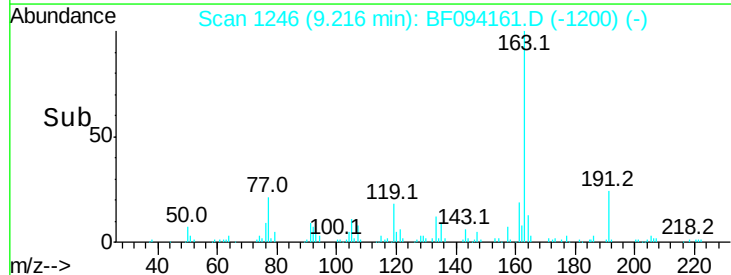
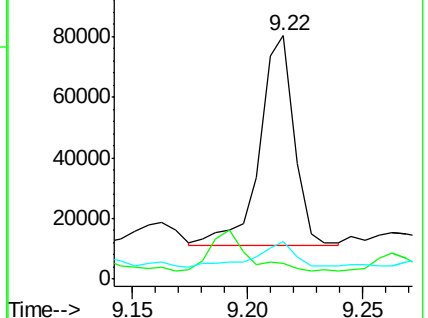
164 15.6 8.4 12.6#

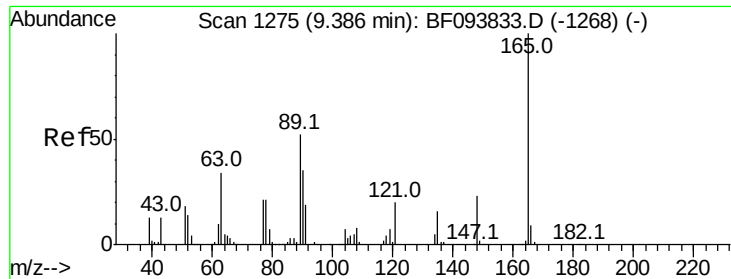


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

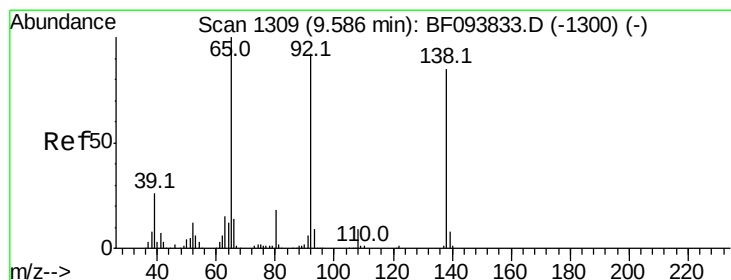
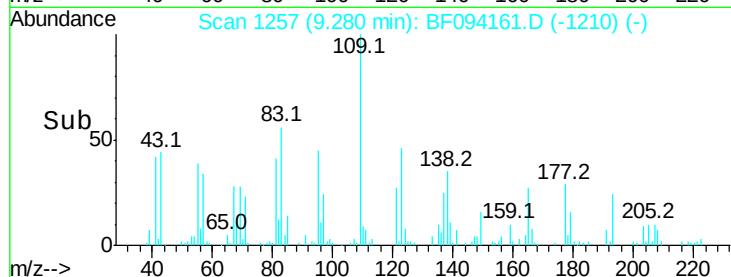
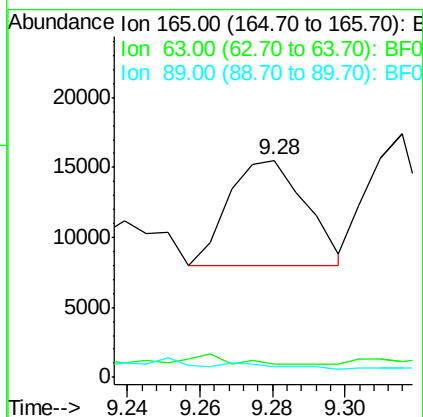
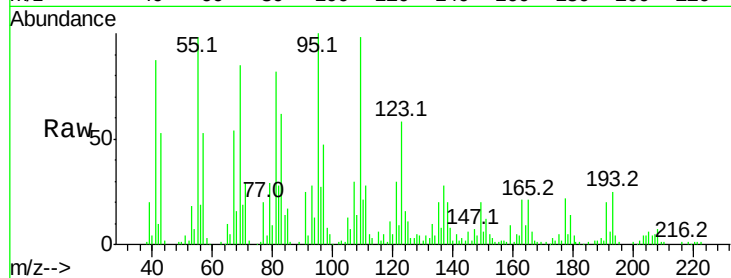




#50
 2,6-Dinitrotoluene
 Concen: 3.05 ng
 RT: 9.28 min Scan# 1257
 Delta R.T. -0.02 min
 Lab File: BF094161.D
 Acq: 4 Apr 2017 11:16

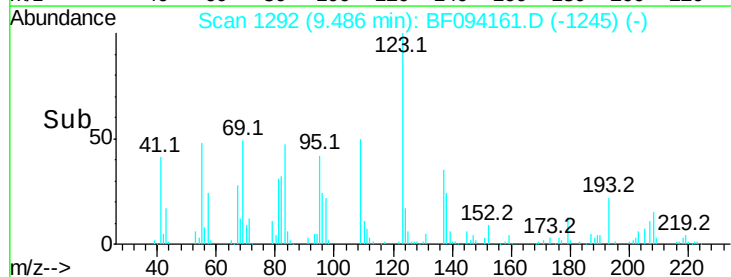
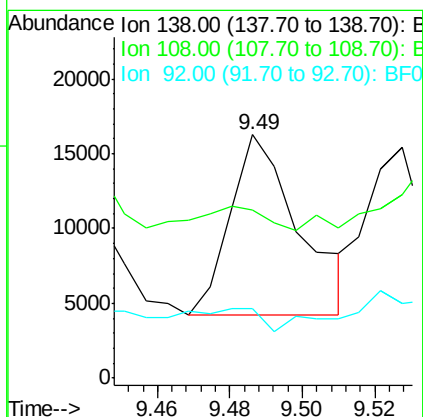
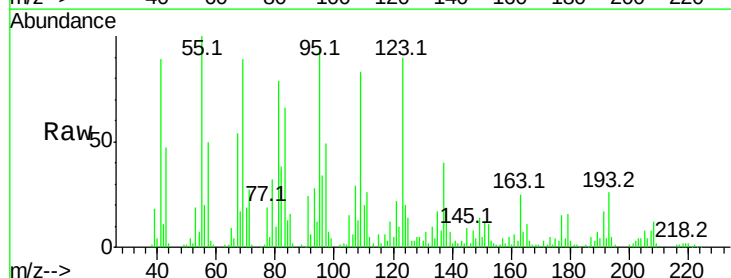
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 BNA_F
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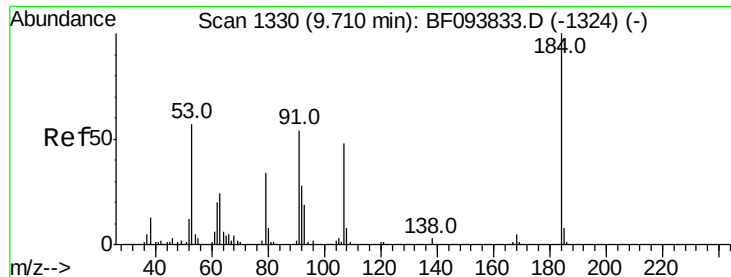
Tot Ion:165 Resp: 11036
 Ion Ratio Lower Upper
 165 100
 63 6.2 34.3 51.5#
 89 5.1 37.1 55.7#



#52
 3-Nitroaniline
 Concen: 3.72 ng
 RT: 9.49 min Scan# 1292
 Delta R.T. -0.02 min
 Lab File: BF094161.D
 Acq: 4 Apr 2017 11:16

Tgt Ion:138 Resp: 15821
 Ion Ratio Lower Upper
 138 100
 108 69.1 9.1 13.7#
 92 28.6 93.8 140.6#

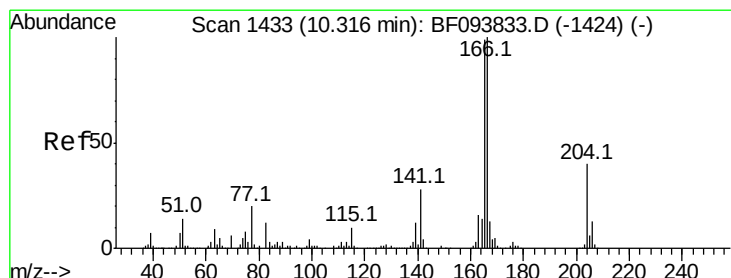
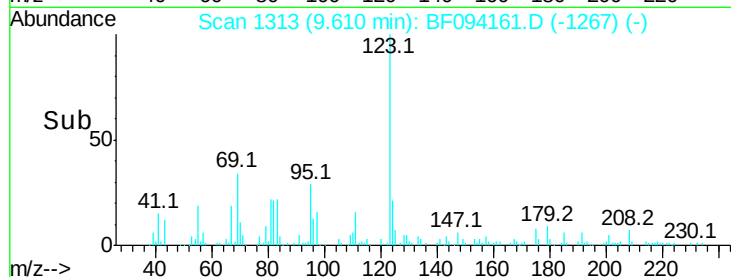
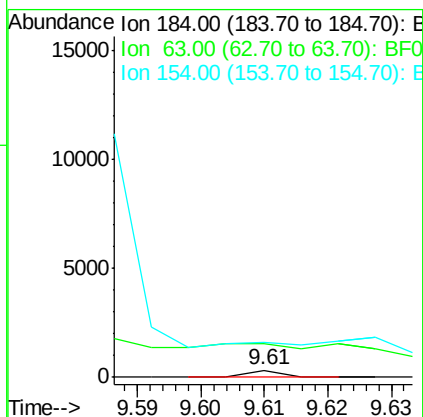
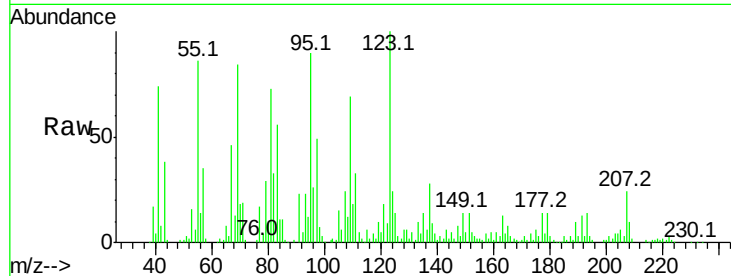




#53
 2,4-Dinitrophenol
 Concen: 4.72 ng
 RT: 9.61 min Scan# 1313
 Delta R.T. -0.03 min
 Lab File: BF094161.D
 Acq: 4 Apr 2017 11:16

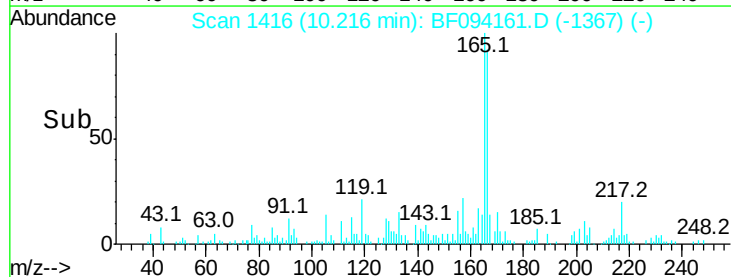
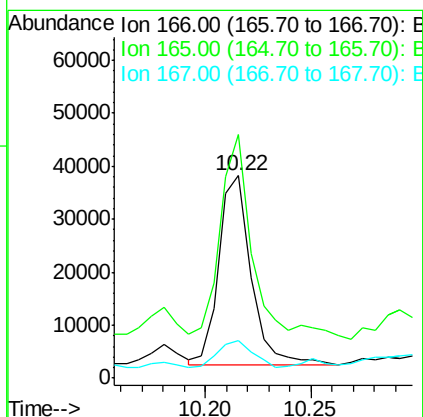
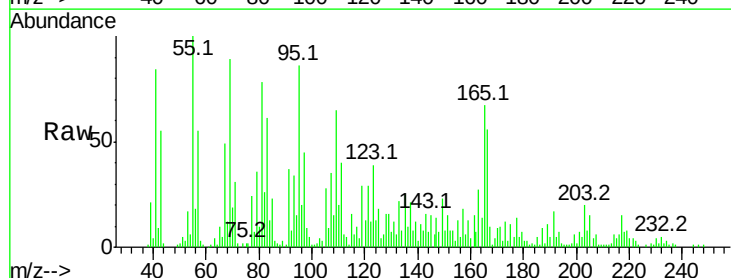
Instrument :
 BNA_F
 ClientSampled :

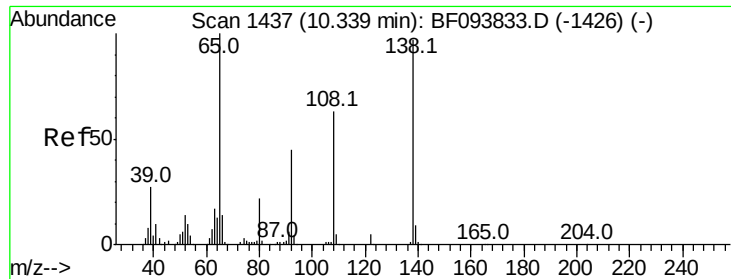
Tot Ion:184 Resp: 114
 Ion Ratio Lower Upper
 184 100
 63 486.7 62.7 94.1#
 154 502.8 81.1 121.7#



#57
 Fluorene
 Concen: 2.47 ng
 RT: 10.22 min Scan# 1416
 Delta R.T. -0.01 min
 Lab File: BF094161.D
 Acq: 4 Apr 2017 11:16

Tgt Ion:166 Resp: 37940
 Ion Ratio Lower Upper
 166 100
 165 120.2 78.8 118.2#
 167 18.8 10.6 16.0#

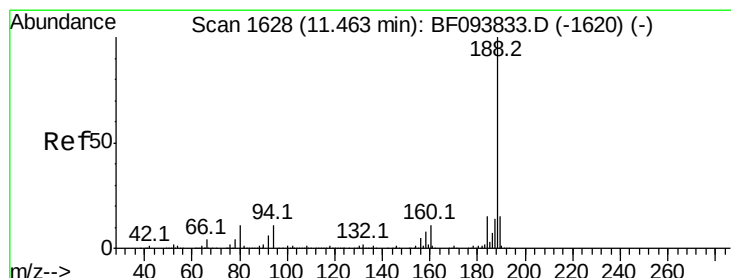
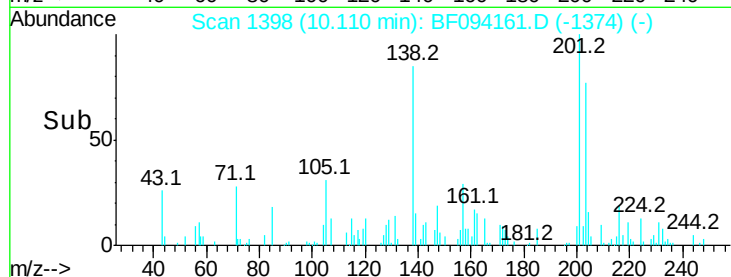
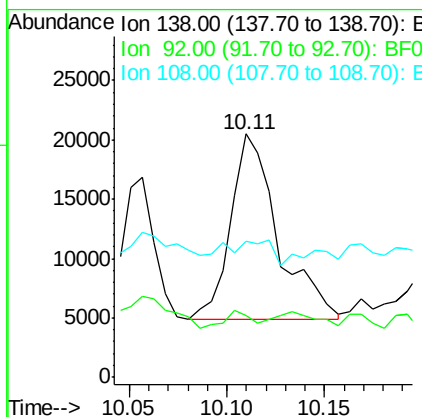
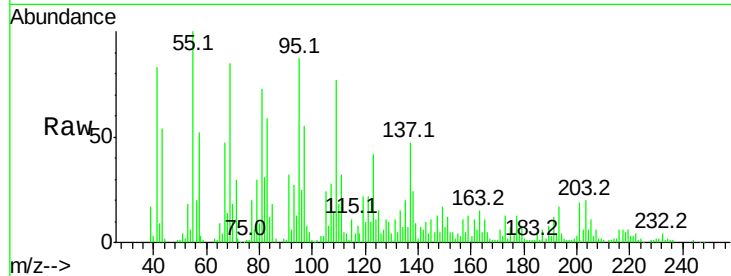




#61
4-Nitroaniline
Concen: 6.41 ng
RT: 10.11 min Scan# 1398
Delta R.T. -0.16 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

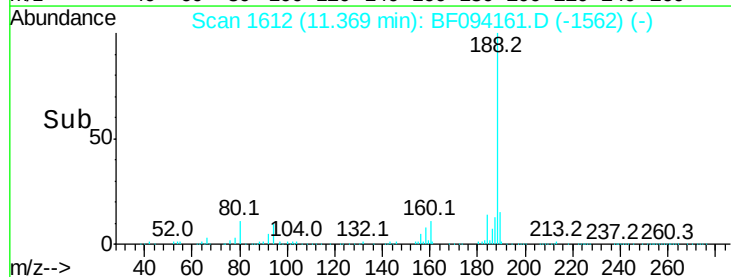
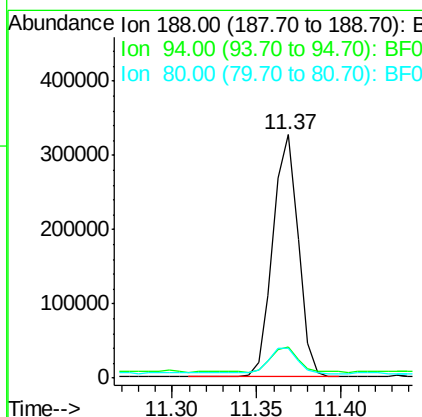
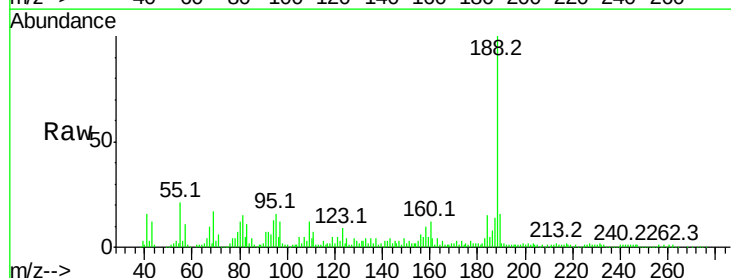
Instrument :
BNA_F
ClientSampleId :

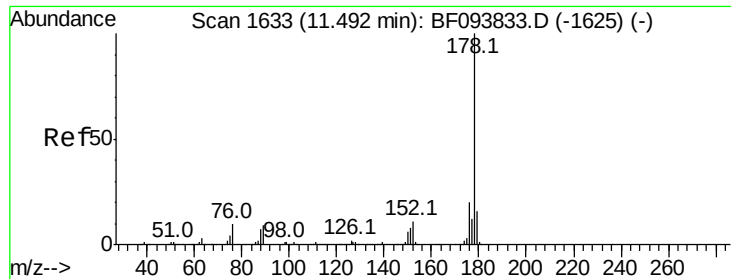
Tot Ion:138 Resp: 26137
Ion Ratio Lower Upper
138 100
92 25.2 21.8 61.8
108 56.1 42.3 82.3



#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.37 min Scan# 1612
Delta R.T. -0.01 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

Tgt Ion:188 Resp: 341021
Ion Ratio Lower Upper
188 100
94 12.9 9.4 14.2
80 12.4 10.2 15.2





#70

Phenanthrene

Concen: 41.96 ng

RT: 11.40 min Scan# 1617

Delta R.T. -0.01 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

Instrument :

BNA_F

ClientSampleId :

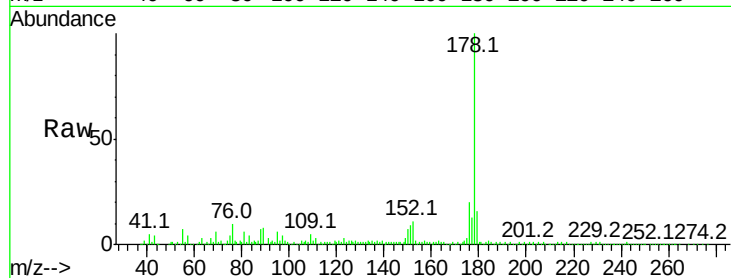
Tot Ion:178 Resp: 796008

Ion Ratio Lower Upper

178 100

176 19.7 16.2 24.4

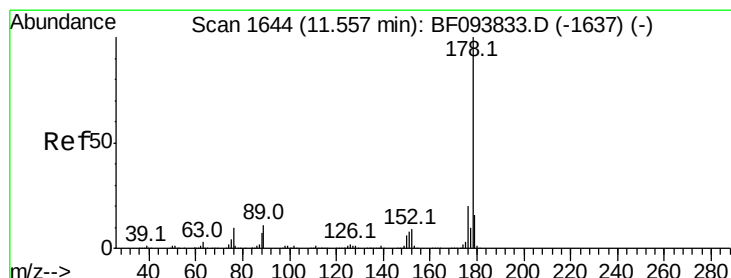
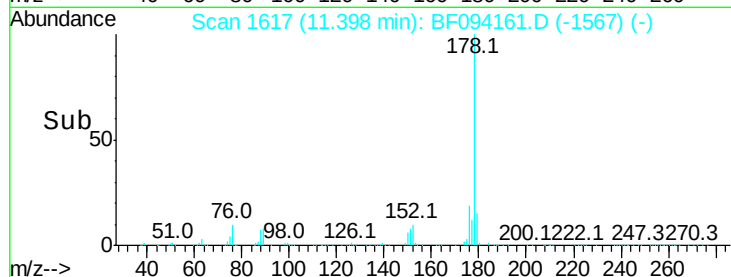
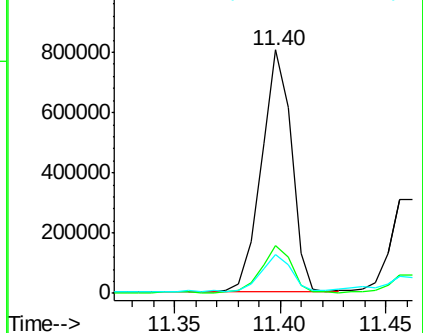
179 16.1 12.6 19.0



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: 16.42 ng

RT: 11.46 min Scan# 1628

Delta R.T. -0.01 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

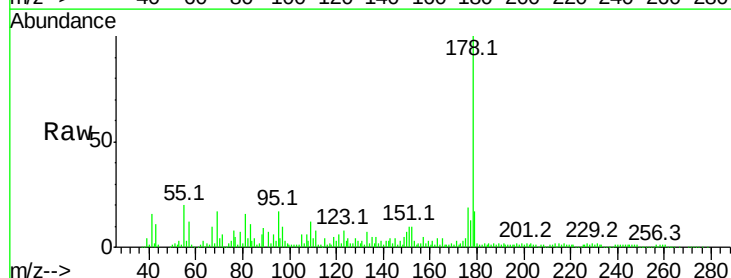
Tgt Ion:178 Resp: 320688

Ion Ratio Lower Upper

178 100

176 18.9 15.8 23.8

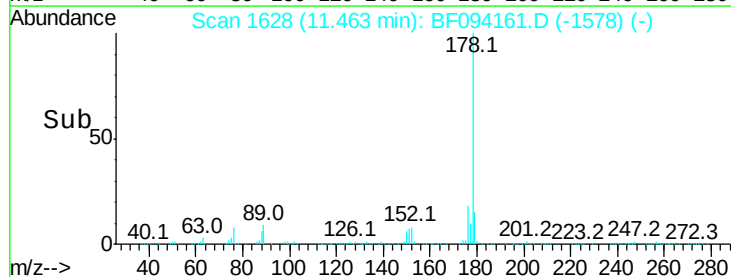
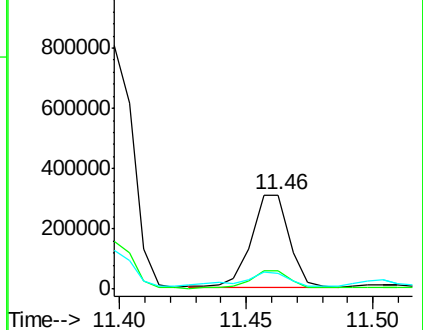
179 16.6 12.7 19.1

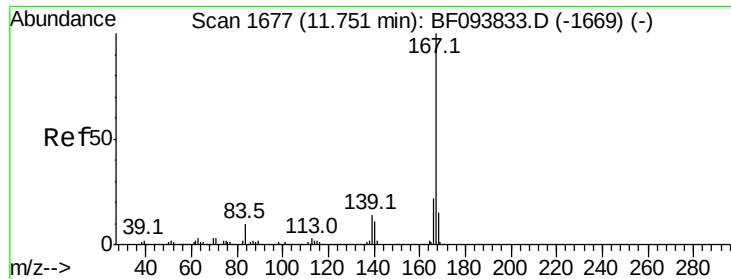


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 6.86 ng

RT: 11.66 min Scan# 1662

Delta R.T. -0.01 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

Instrument :

BNA_F

ClientSampleId :

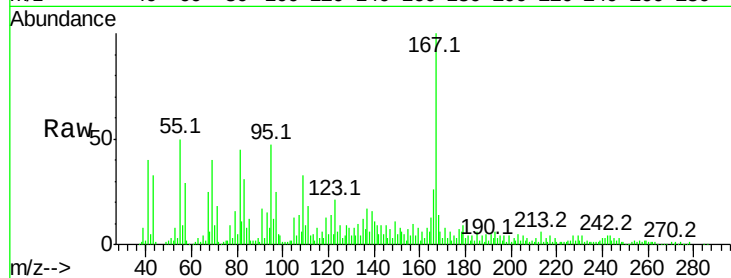
Tot Ion:167 Resp: 137331

Ion Ratio Lower Upper

167 100

166 25.6 18.1 27.1

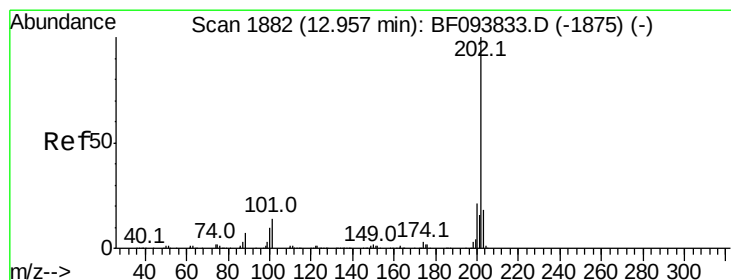
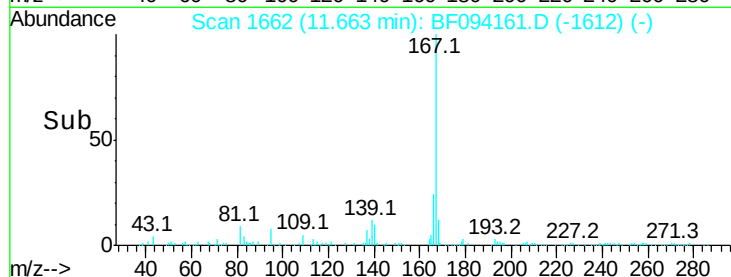
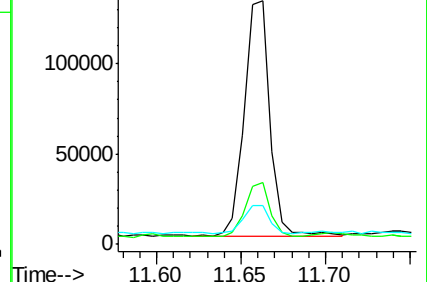
139 16.0 11.7 17.5



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: 136.85 ng

RT: 12.88 min Scan# 1869

Delta R.T. 0.01 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

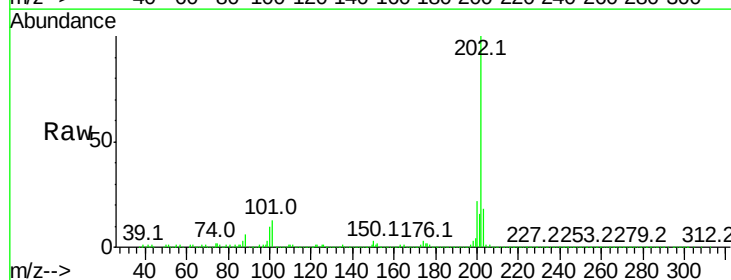
Tgt Ion:202 Resp: 2658279

Ion Ratio Lower Upper

202 100

101 12.9 0.0 33.2

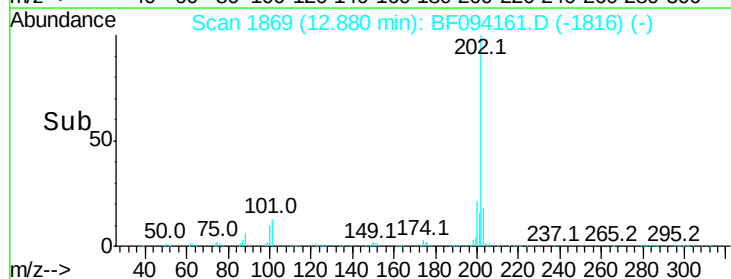
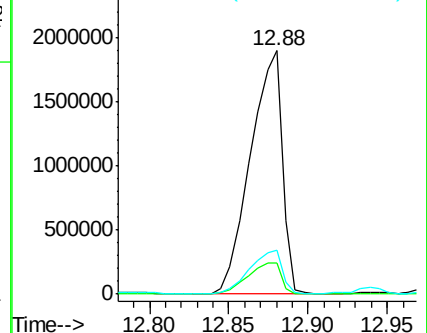
203 18.1 0.0 38.1

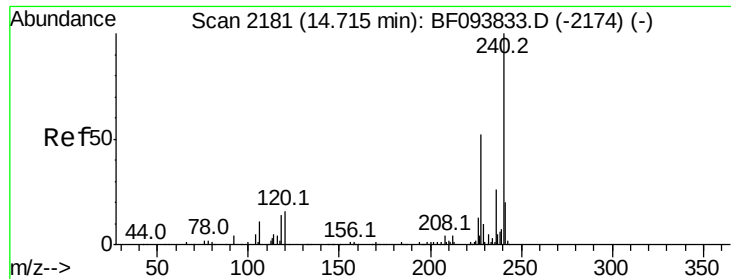


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.63 min Scan# 2166

Delta R.T. -0.00 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

Instrument :

BNA_F

ClientSampleId :

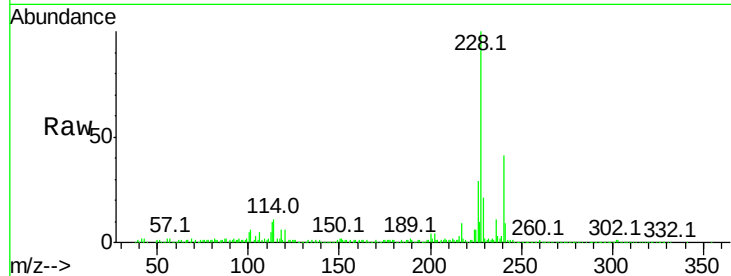
Tot Ion:240 Resp: 276862

Ion Ratio Lower Upper

240 100

120 15.5 5.8 8.8#

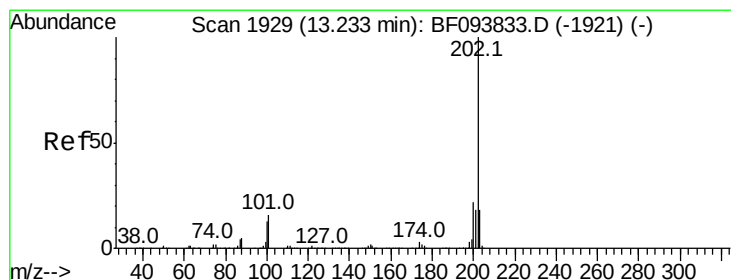
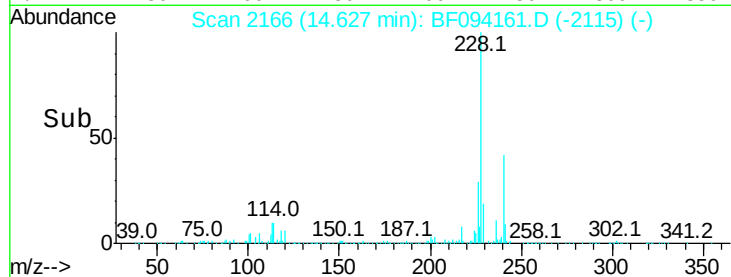
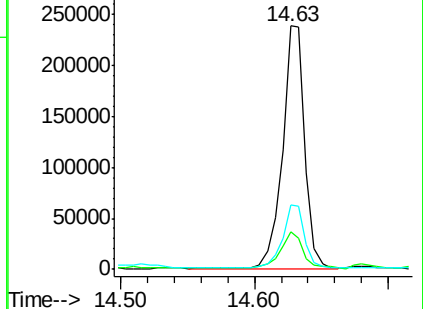
236 26.3 20.5 30.7



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

Pyrene

Concen: 129.99 ng

RT: 13.16 min Scan# 1916

Delta R.T. 0.01 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

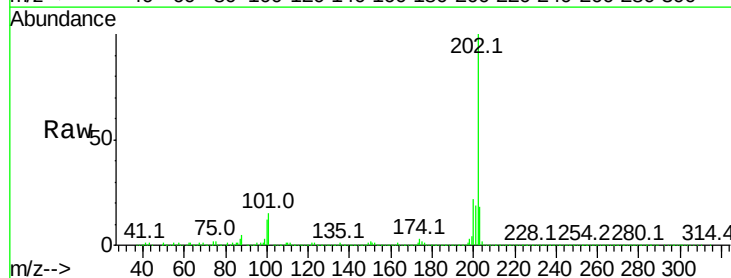
Tgt Ion:202 Resp: 2611789

Ion Ratio Lower Upper

202 100

200 21.9 17.6 26.4

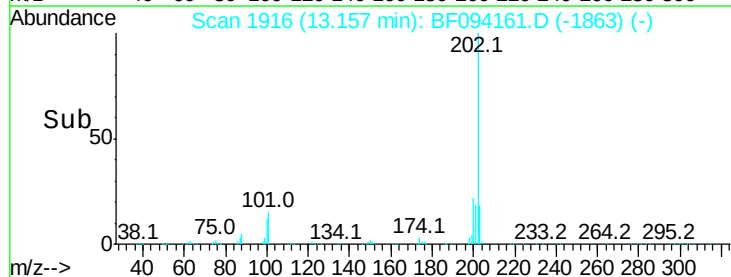
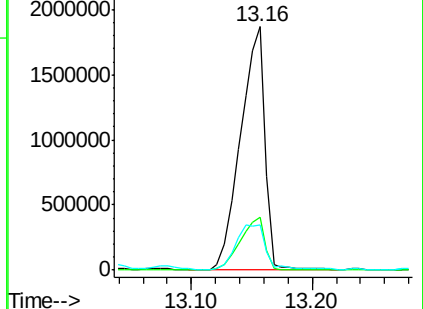
203 18.4 14.4 21.6

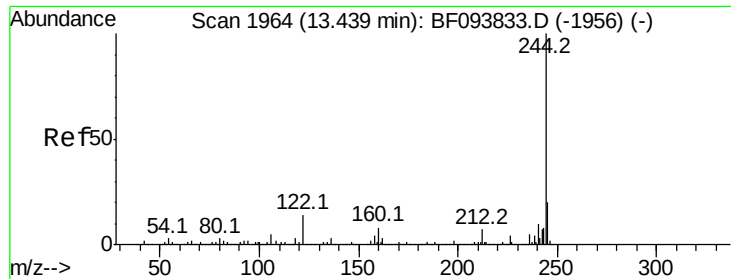


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 23.78 ng

RT: 13.34 min Scan# 1948

Delta R.T. -0.01 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

Instrument :

BNA_F

ClientSampleId :

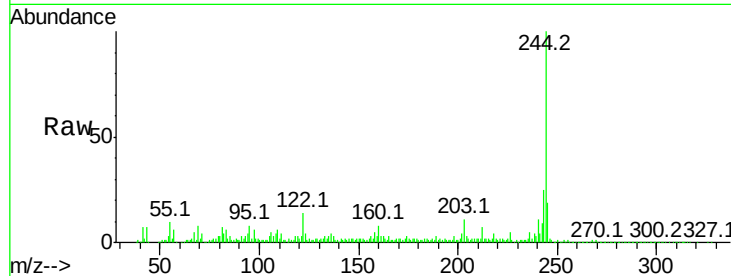
Tot Ion:244 Resp: 293711

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

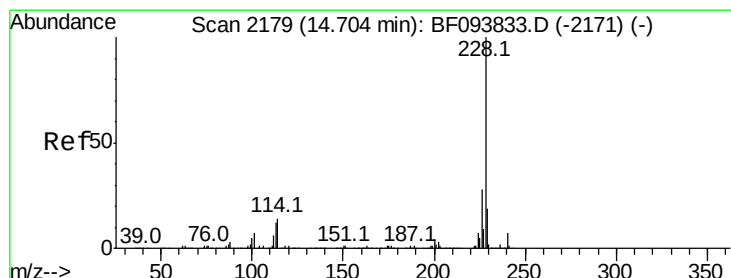
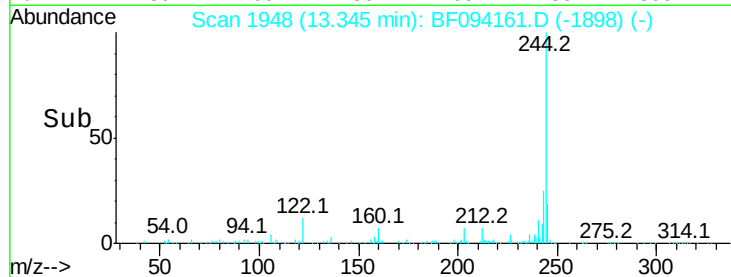
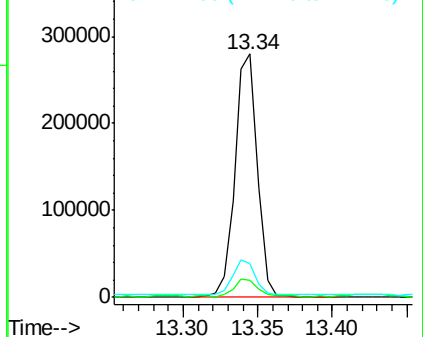
122 13.8 10.3 15.5



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: 89.33 ng

RT: 14.62 min Scan# 2165

Delta R.T. 0.01 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

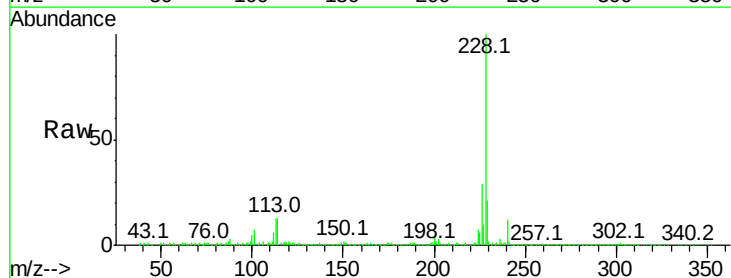
Tgt Ion:228 Resp: 1442131

Ion Ratio Lower Upper

228 100

226 29.1 22.6 33.8

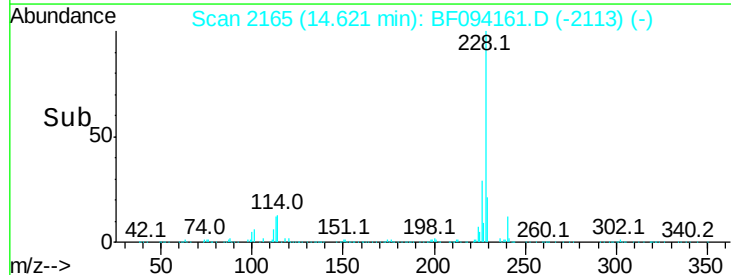
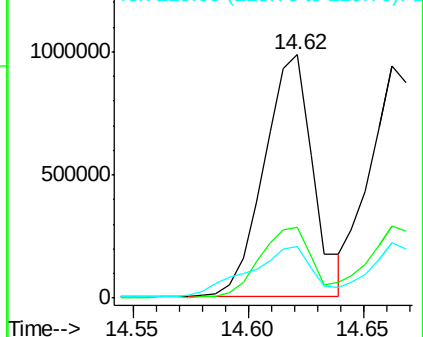
229 21.1 16.3 24.5

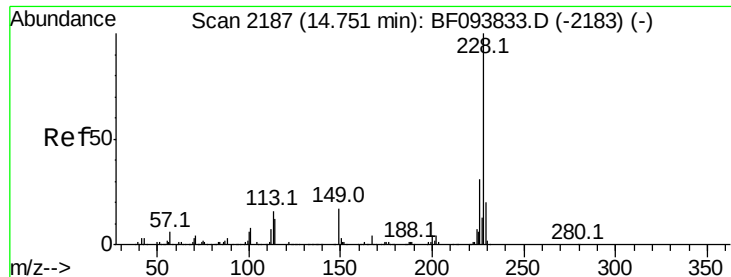


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 96.26 ng

RT: 14.62 min Scan# 2165

Delta R.T. -0.04 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

Instrument :

BNA_F

ClientSampled :

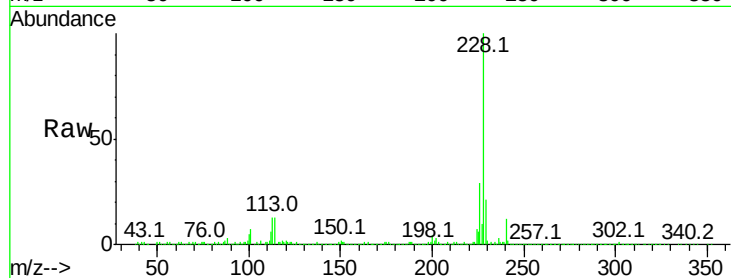
Tot Ion:228 Resp: 1442131

Ion Ratio Lower Upper

228 100

226 29.1 24.9 37.3

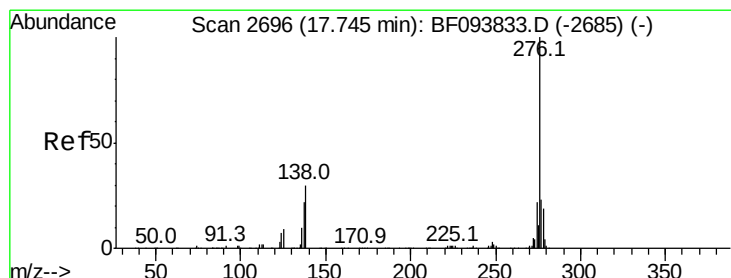
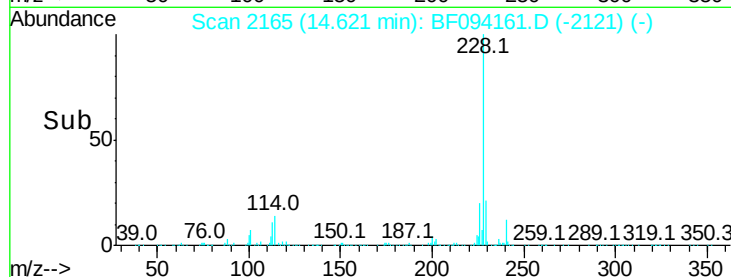
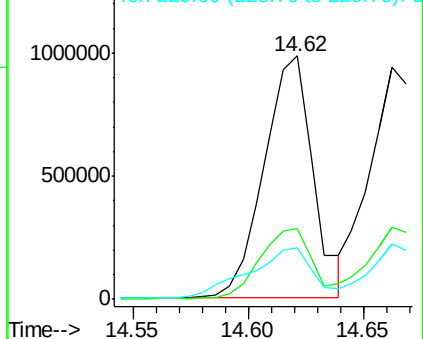
229 21.1 15.8 23.6



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 47.84 ng

RT: 17.62 min Scan# 2674

Delta R.T. 0.01 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

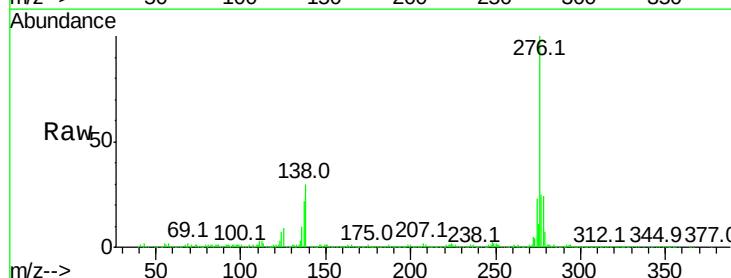
Tgt Ion:276 Resp: 620785

Ion Ratio Lower Upper

276 100

138 30.5 27.8 41.6

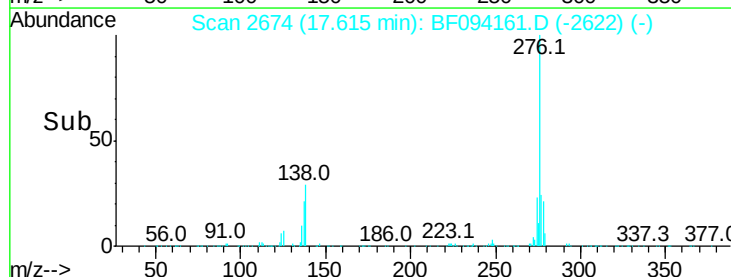
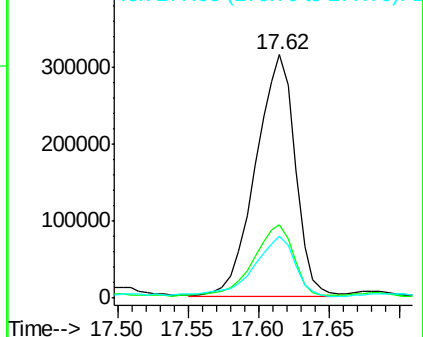
277 25.5 20.2 30.4

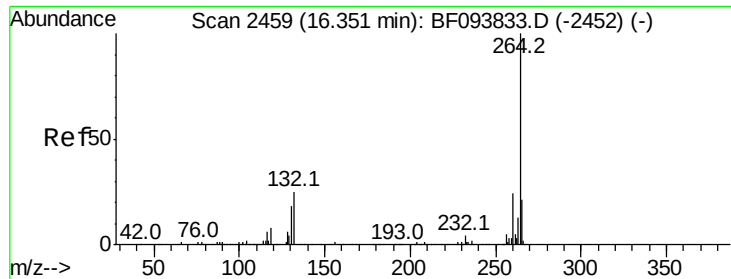


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.00 ng

RT: 16.26 min Scan# 2443

Delta R.T. 0.01 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

Instrument :

BNA_F

ClientSampleId :

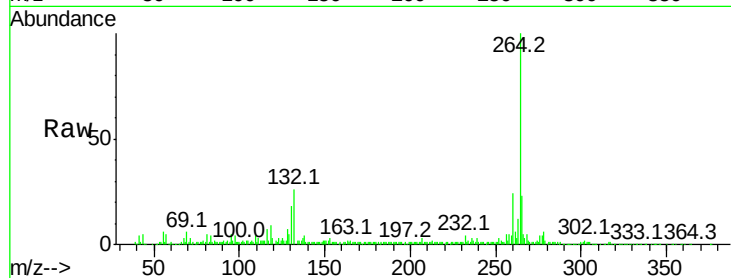
Tot Ion:264 Resp: 221514

Ion Ratio Lower Upper

264 100

260 24.2 19.5 29.3

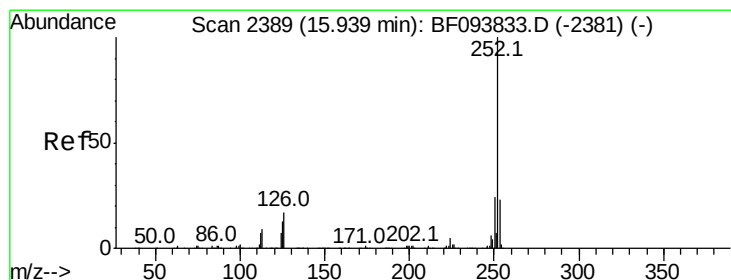
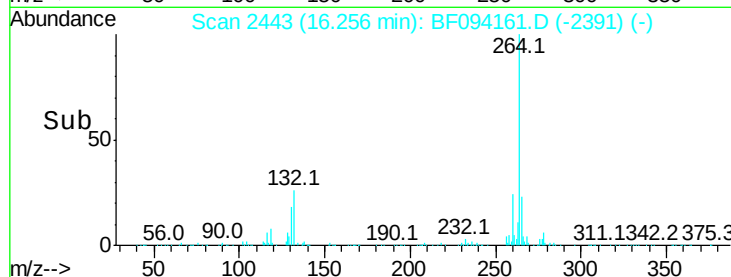
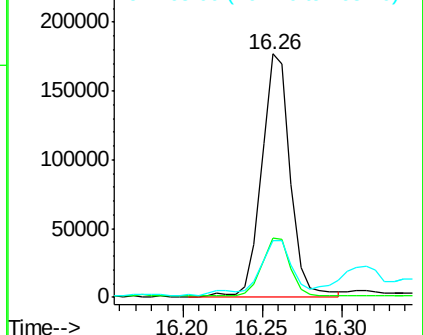
265 23.5 17.2 25.8



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: 133.52 ng

RT: 15.86 min Scan# 2376

Delta R.T. 0.01 min

Lab File: BF094161.D

Acq: 4 Apr 2017 11:16

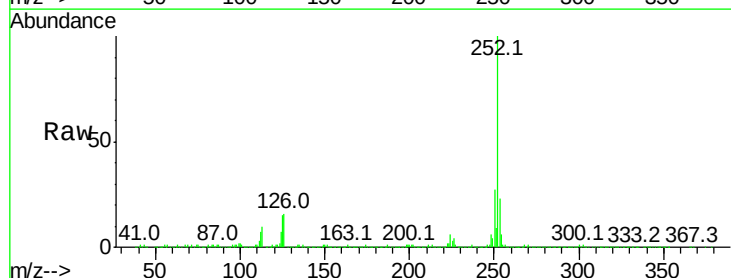
Tgt Ion:252 Resp: 1812990

Ion Ratio Lower Upper

252 100

253 23.5 18.1 27.1

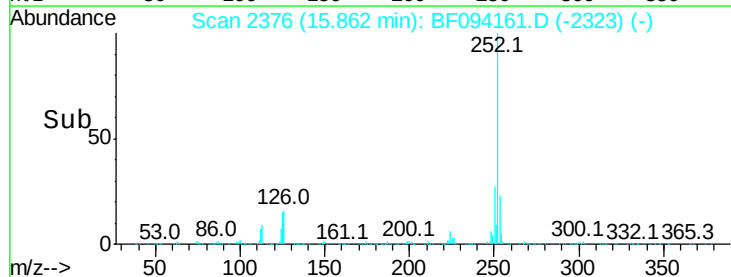
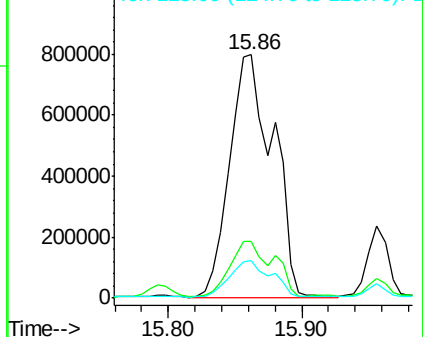
125 15.3 9.8 14.8#

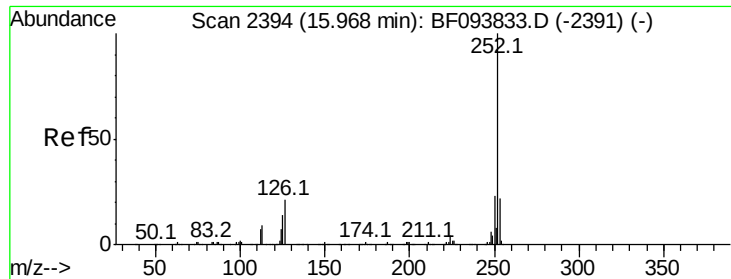


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

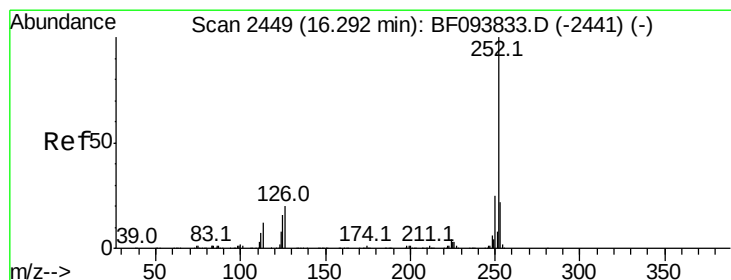
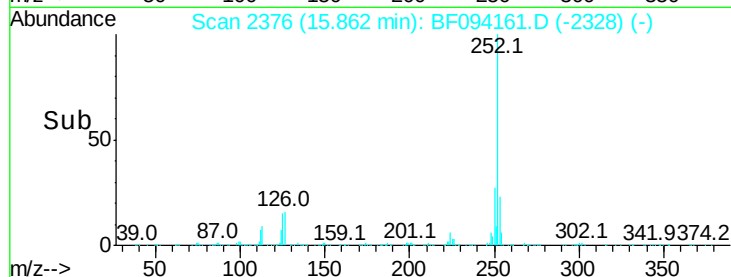
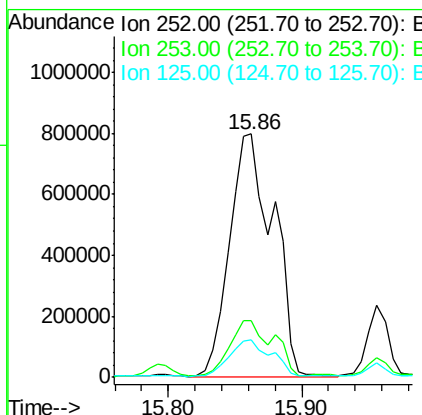
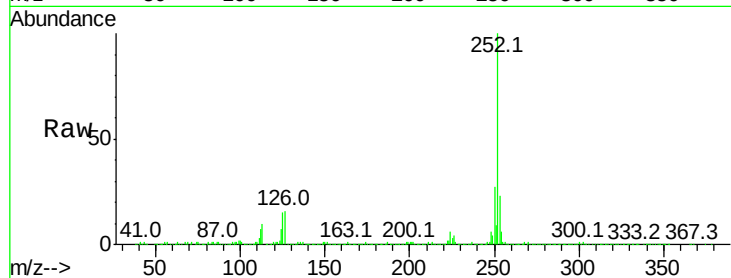




#88
Benzo(k)fluoranthene
Concen: 136.47 ng
RT: 15.86 min Scan# 2376
Delta R.T. -0.02 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

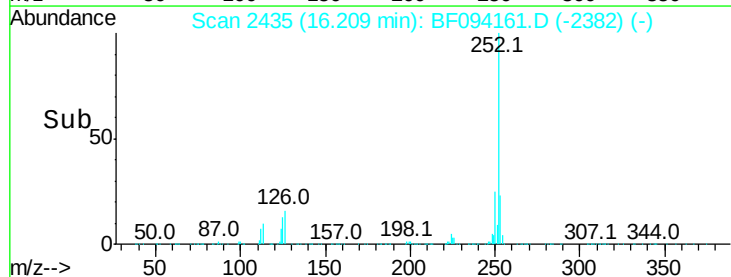
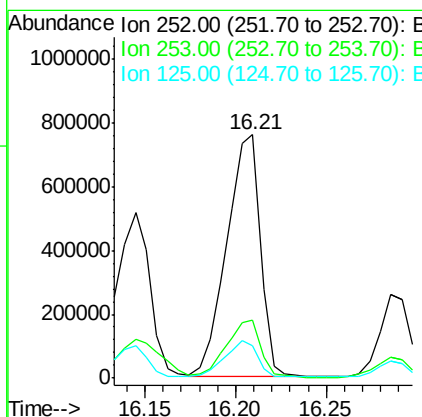
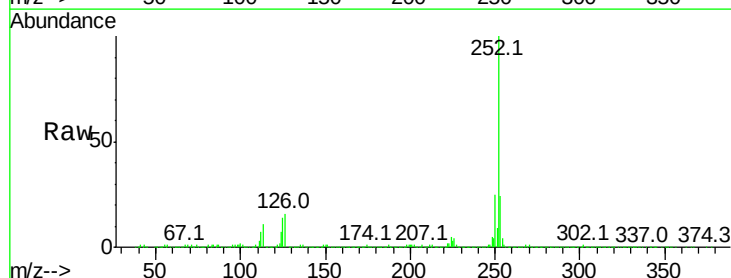
Instrument :
BNA_F
ClientSampleId :

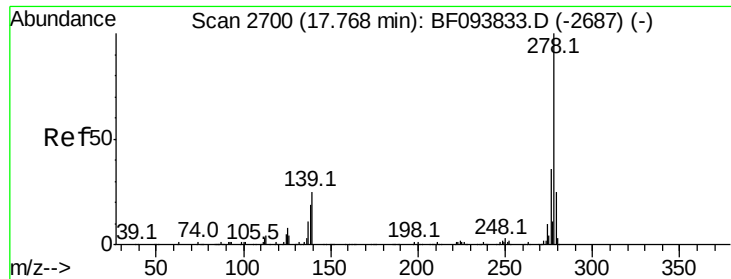
Tot Ion:252 Resp: 1812990
Ion Ratio Lower Upper
252 100
253 23.5 18.4 27.6
125 15.3 13.1 19.7



#89
Benzo(a)pyrene
Concen: 78.38 ng
RT: 16.21 min Scan# 2435
Delta R.T. 0.01 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

Tgt Ion:252 Resp: 980072
Ion Ratio Lower Upper
252 100
253 23.7 17.5 26.3
125 13.6 11.0 16.4

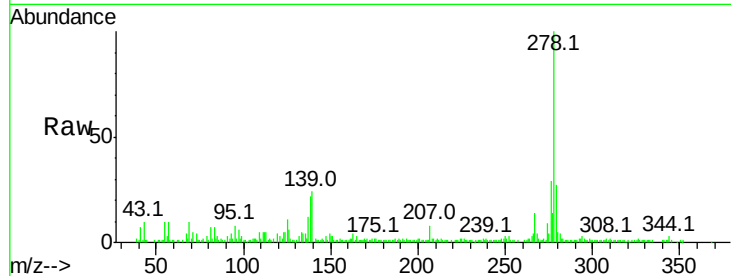




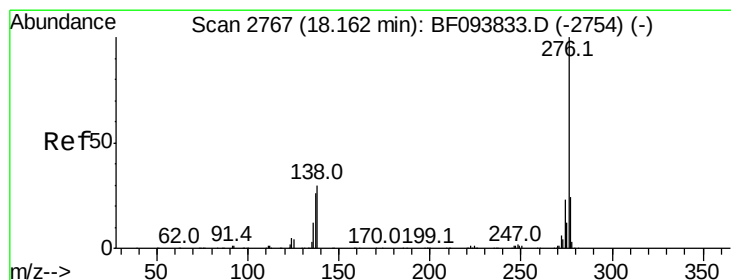
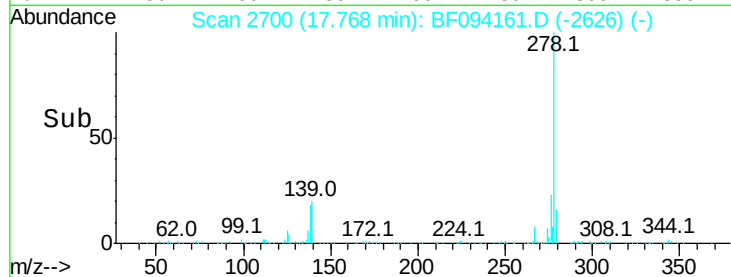
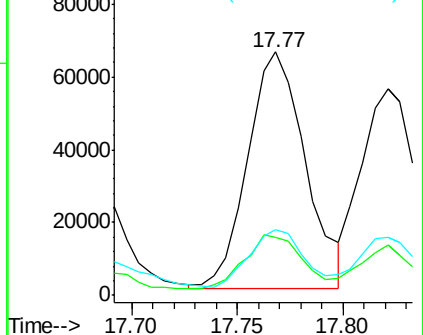
#90
Dibenzo(a,h)anthracene
Concen: 11.65 ng
RT: 17.77 min Scan# 2700
Delta R.T. 0.14 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
278	100		
139	23.9	16.6	24.8
279	26.9	19.3	28.9

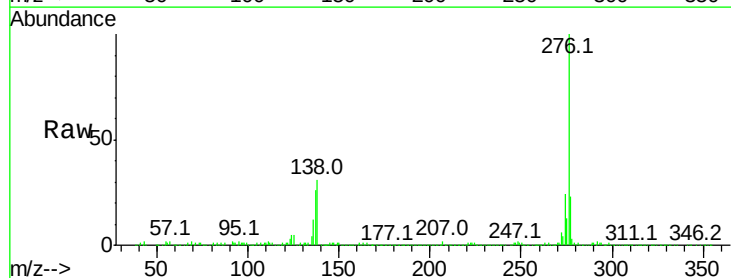


Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E



#91
Benzo(g,h,i)perylene
Concen: 56.62 ng
RT: 18.02 min Scan# 2742
Delta R.T. 0.01 min
Lab File: BF094161.D
Acq: 4 Apr 2017 11:16

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.2	18.6	28.0
138	31.2	25.4	38.0



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

