

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040317\
 Data File : BF094155.D
 Acq On : 4 Apr 2017 8:29
 Operator : SJ/MA
 Sample : I2510-07
 Misc :
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Apr 04 08:49:44 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	165952	20.00	ng	-0.02
21) Naphthalene-d8	7.39	136	619166	20.00	ng	-0.02
38) Acenaphthene-d10	9.53	164	237186	20.00	ng	-0.02
63) Phenanthrene-d10	11.36	188	351516	20.00	ng	-0.02
75) Chrysene-d12	14.62	240	298859	20.00	ng	-0.01
86) Perylene-d12	16.25	264	210441	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	4.43	112	892490	90.83	ng	0.00
7) Phenol-d6	5.50	99	1113829	91.64	ng	-0.01
23) Nitrobenzene-d5	6.53	82	618165	56.98	ng	-0.02
41) 2,4,6-Tribromophenol	10.51	330	157485	84.02	ng	-0.01
44) 2-Fluorobiphenyl	8.72	172	1120465	72.05	ng	-0.02
78) Terphenyl-d14	13.34	244	703946	52.80	ng	-0.01

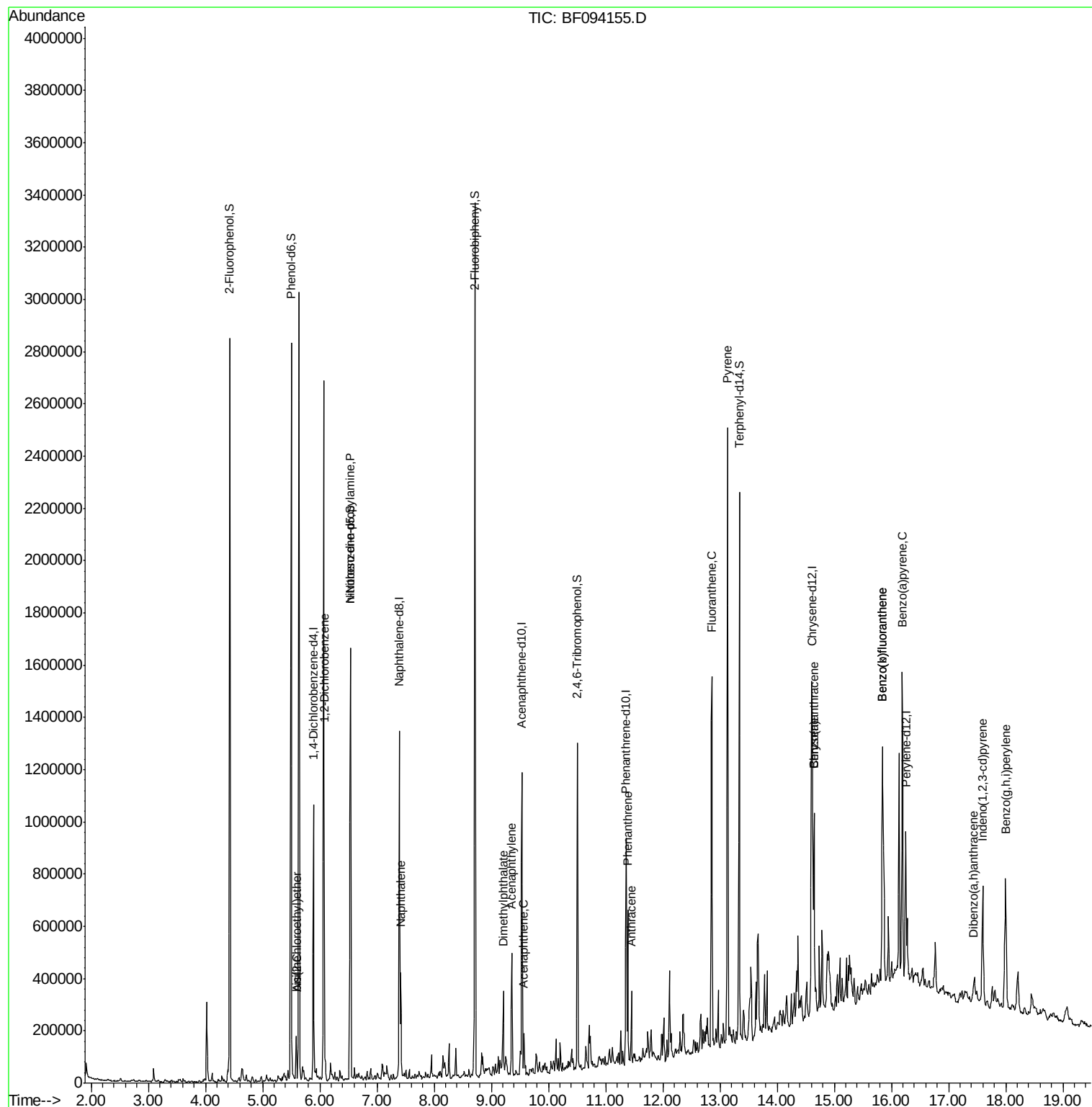
Target Compounds						Qvalue
6) Aniline	5.59	93	56498	3.34	ng	# 55
11) bis(2-Chloroethyl)ether	5.59	93	56498	5.23	ng	97
14) 1,2-Dichlorobenzene	6.08	146	26546	2.35	ng	98
19) n-Nitroso-di-n-propylamine	6.53	70	81668	10.45	ng	# 78
31) Naphthalene	7.42	128	168301	5.65	ng	98
48) Acenaphthylene	9.36	152	203090	8.16	ng	98
49) Dimethylphthalate	9.21	163	118479	7.03	ng	100
51) Acenaphthene	9.57	154	34353	2.37	ng	95
70) Phenanthrene	11.39	178	231088	11.82	ng	98
71) Anthracene	11.45	178	116298	5.78	ng	99
74) Fluoranthene	12.86	202	631452	31.54	ng	99
77) Pyrene	13.13	202	1073695	49.50	ng	100
80) Benzo(a)anthracene	14.64	228	384050	22.04	ng	97
82) Chrysene	14.64	228	384050	23.75	ng	98
85) Indeno(1,2,3-cd)pyrene	17.60	276	277159	19.79	ng	95
87) Benzo(b)fluoranthene	15.84	252	694728	53.86	ng	# 97
88) Benzo(k)fluoranthene	15.84	252	694728	55.04	ng	97
89) Benzo(a)pyrene	16.19	252	477998	40.24	ng	97
90) Dibenzo(a,h)anthracene	17.43	278	47623	4.73	ng	93
91) Benzo(a,h,i)perylene	18.00	276	392189	38.68	ng	98

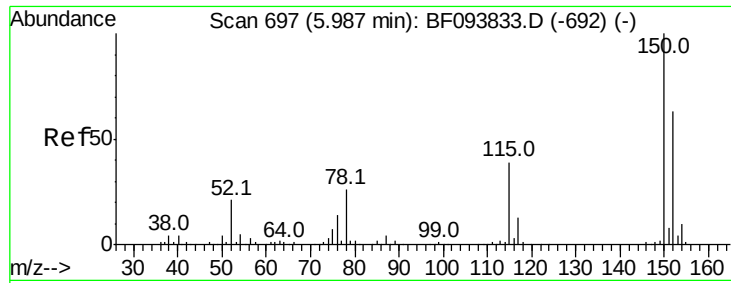
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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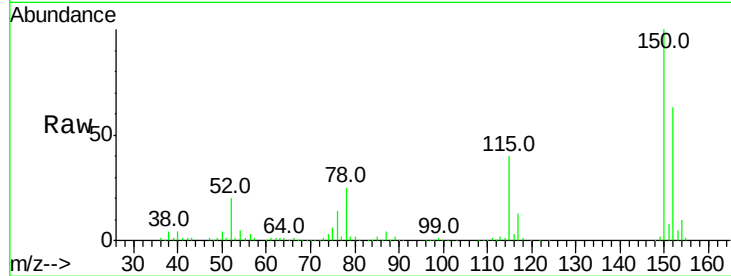


#1

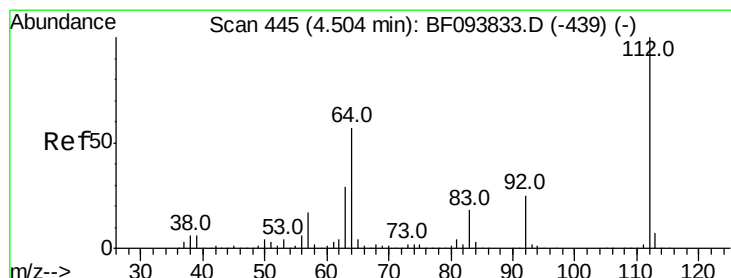
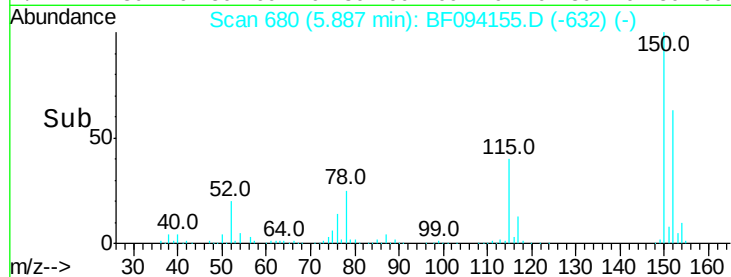
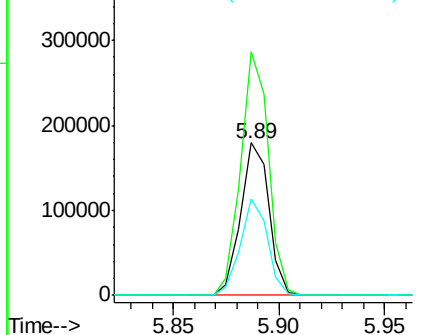
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 5.89 min Scan# 680
 Delta R.T. -0.02 min
 Lab File: BF094155.D
 Acq: 4 Apr 2017 8:29

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
150	159.6	126.2	189.2
115	63.5	52.2	78.2



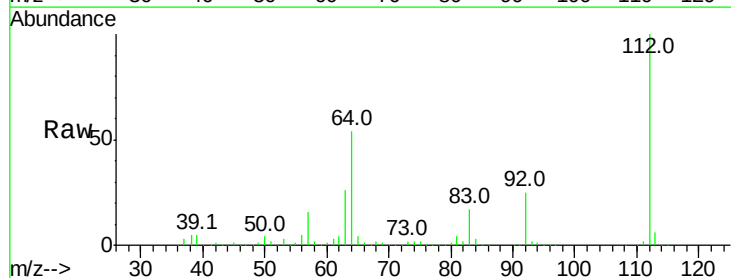
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



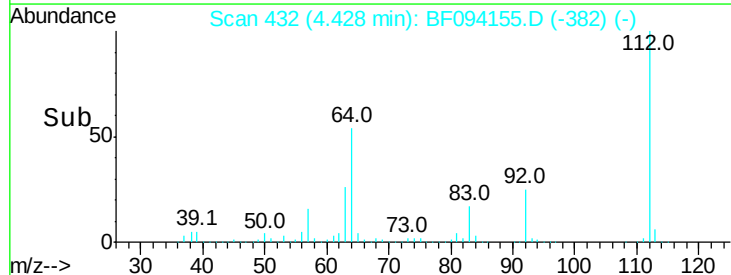
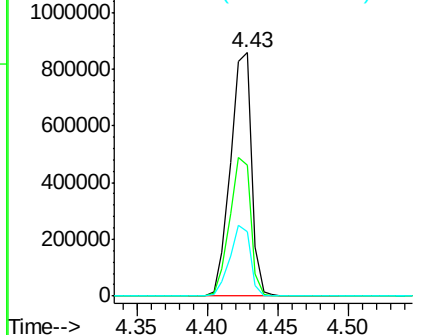
#5

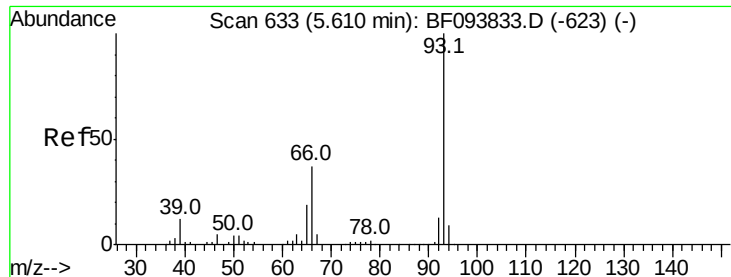
2-Fluorophenol
 Concen: 90.83 ng
 RT: 4.43 min Scan# 432
 Delta R.T. -0.01 min
 Lab File: BF094155.D
 Acq: 4 Apr 2017 8:29

Tgt Ion	Ratio	Lower	Upper
112	100		
64	54.0	46.0	69.0
63	26.5	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





#6

Aniline

Concen: 3.34 ng

RT: 5.59 min Scan# 629

Delta R.T. 0.06 min

Lab File: BF094155.D

Acq: 4 Apr 2017 8:29

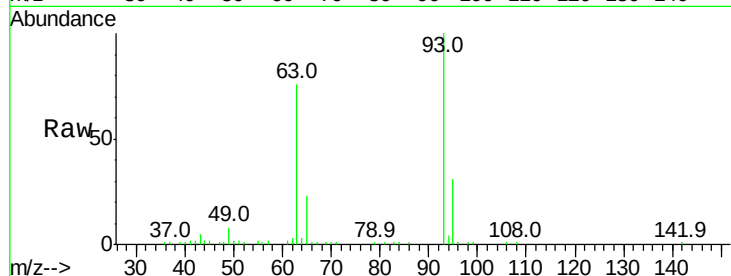
Instrument :

BNA_F

ClientSampled :

Tot Ion: 93 Resp: 56498

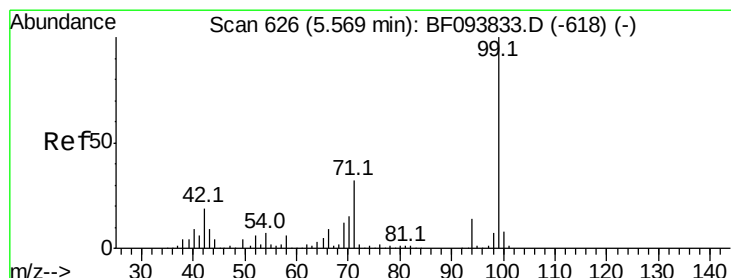
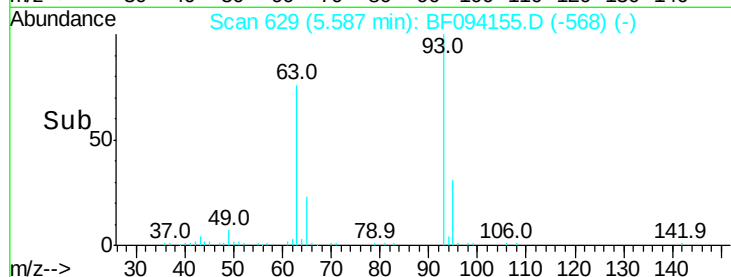
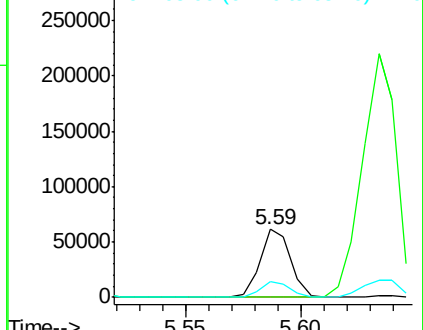
Ion	Ratio	Lower	Upper
93	100		
66	1.1	32.9	49.3#
65	22.5	16.0	24.0



Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0



#7

Phenol-d6

Concen: 91.64 ng

RT: 5.50 min Scan# 614

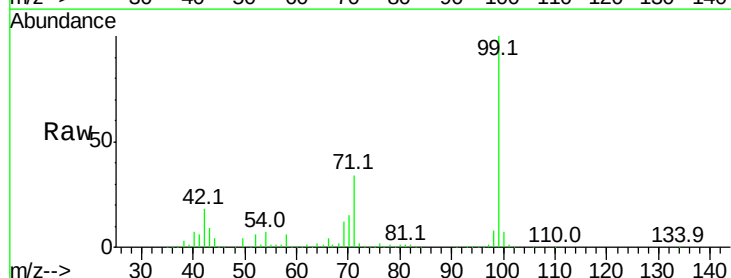
Delta R.T. -0.01 min

Lab File: BF094155.D

Acq: 4 Apr 2017 8:29

Tgt Ion: 99 Resp: 1113829

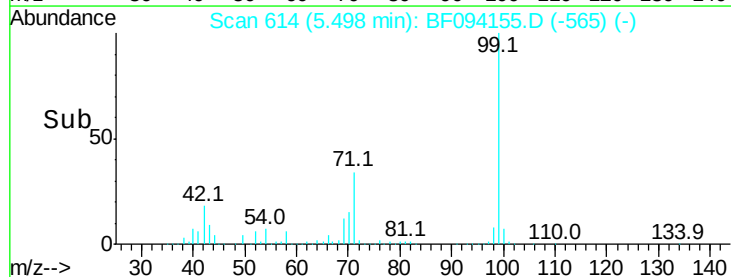
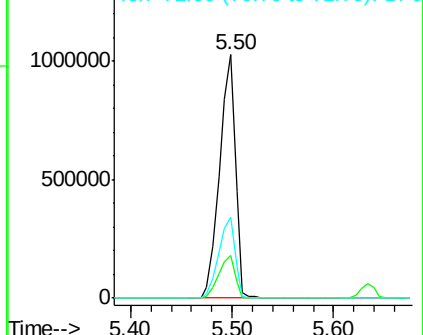
Ion	Ratio	Lower	Upper
99	100		
42	17.6	13.5	20.3
71	33.5	24.5	36.7

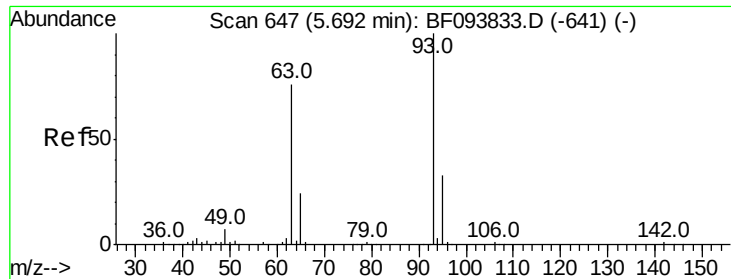


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#11

bis(2-Chloroethyl)ether

Concen: 5.23 ng

RT: 5.59 min Scan# 629

Delta R.T. -0.02 min

Lab File: BF094155.D

Acq: 4 Apr 2017 8:29

Instrument :

BNA_F

ClientSampleId :

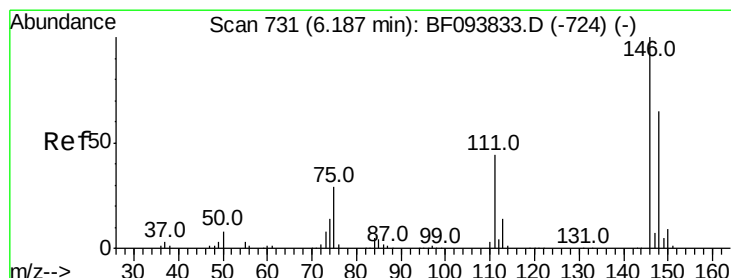
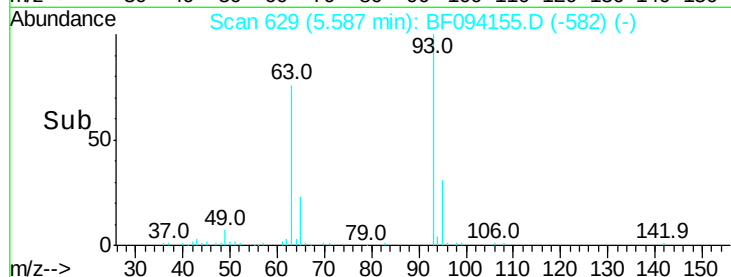
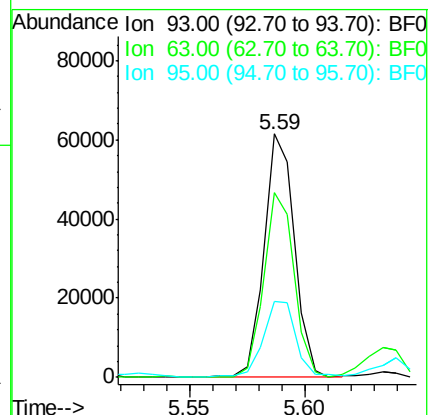
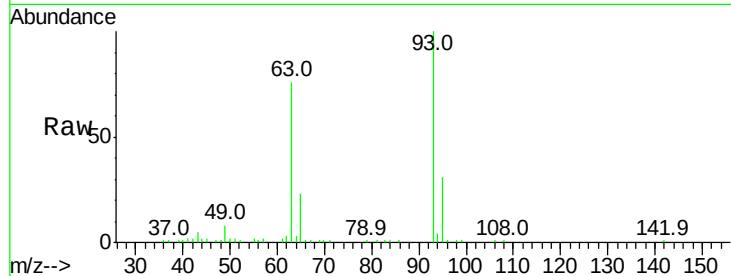
Tot Ion: 93 Resp: 56498

Ion Ratio Lower Upper

93 100

63 76.1 59.2 99.2

95 31.5 12.8 52.8



#14

1,2-Dichlorobenzene

Concen: 2.35 ng

RT: 6.08 min Scan# 713

Delta R.T. -0.02 min

Lab File: BF094155.D

Acq: 4 Apr 2017 8:29

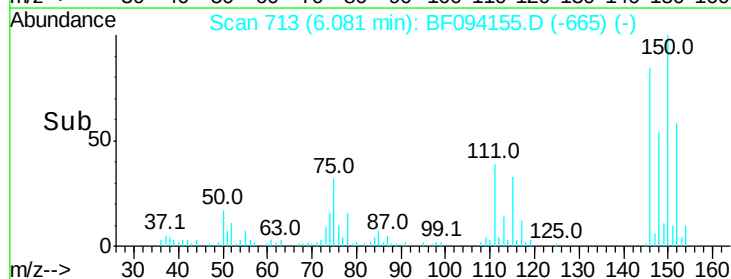
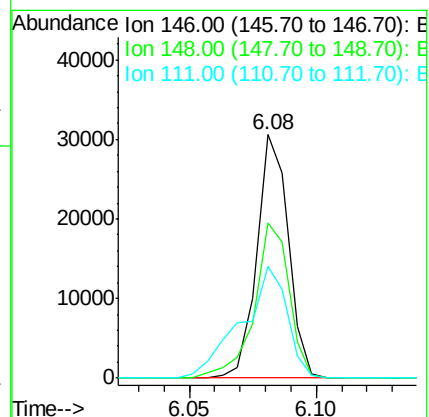
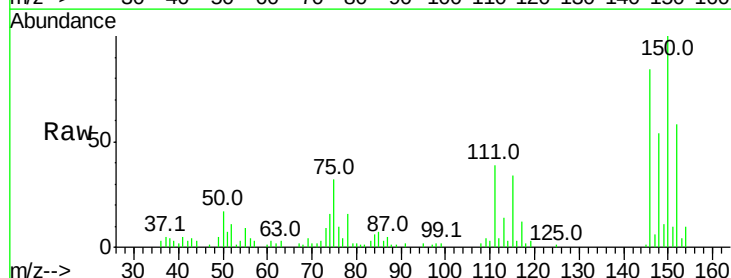
Tgt Ion: 146 Resp: 26546

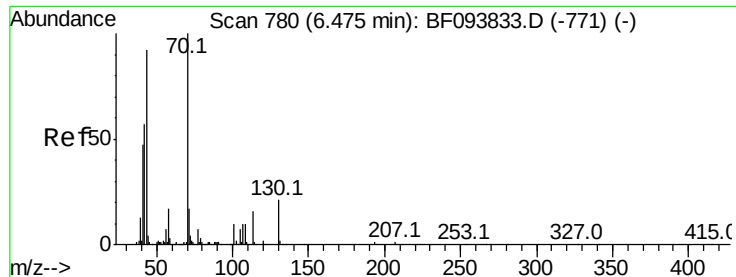
Ion Ratio Lower Upper

146 100

148 63.9 50.4 75.6

111 46.1 38.2 57.4

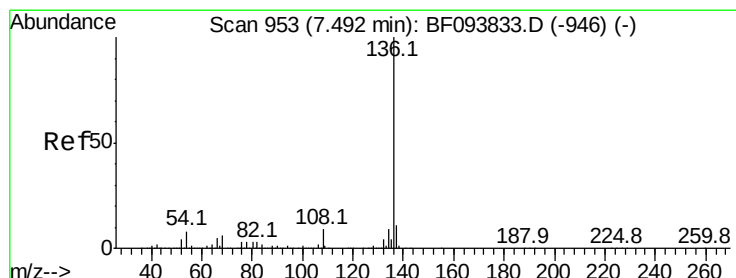
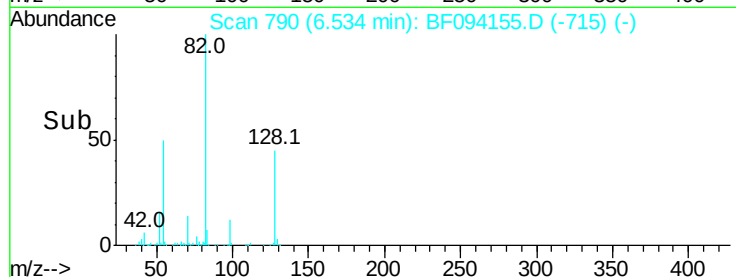
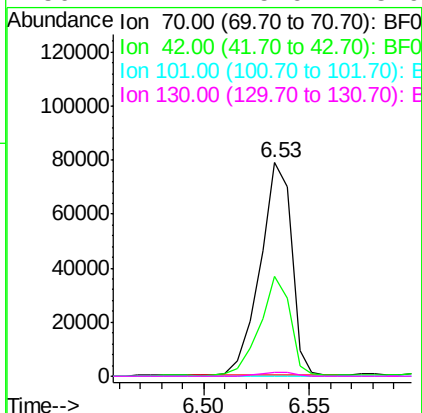
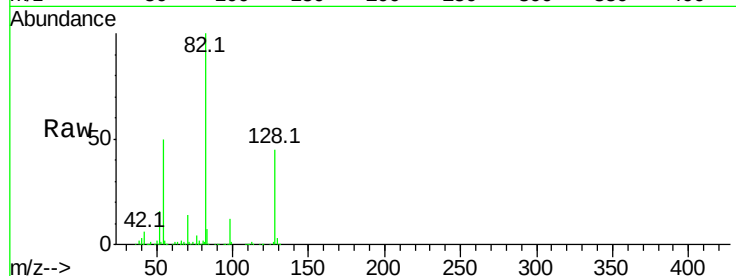




#19
n-Nitroso-di-n-propylamine
Concen: 10.45 ng
RT: 6.53 min Scan# 790
Delta R.T. 0.14 min
Lab File: BF094155.D
Acq: 4 Apr 2017 8:29

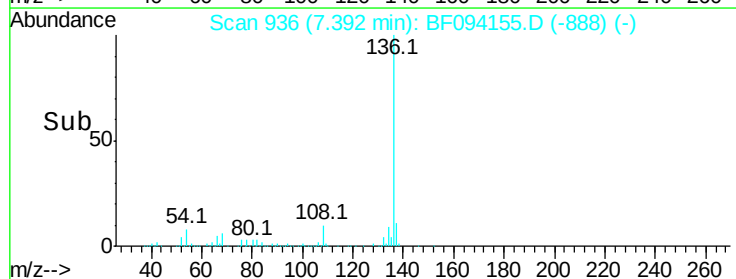
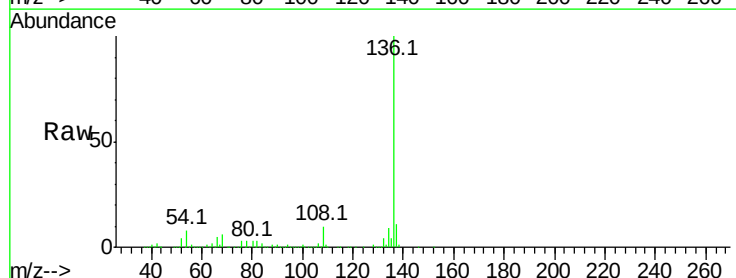
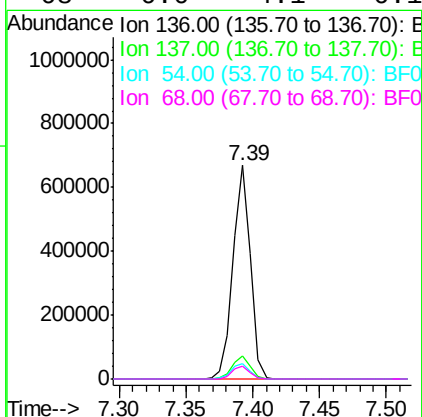
Instrument :
BNA_F
ClientSampleId :

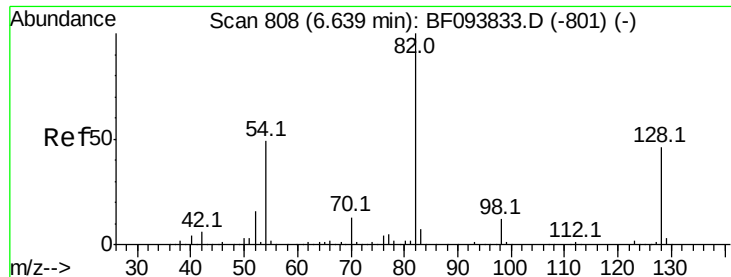
Tot Ion	Ion	Ratio	Lower	Upper
70	100			
42	46.8	47.2	70.8#	
101	0.0	7.2	10.8#	
130	1.7	15.9	23.9#	



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.39 min Scan# 936
Delta R.T. -0.02 min
Lab File: BF094155.D
Acq: 4 Apr 2017 8:29

Tgt Ion	Ion	Ratio	Lower	Upper
136	100			
137	11.0	8.5	12.7	
54	7.5	4.9	7.3#	
68	6.0	4.1	6.1	

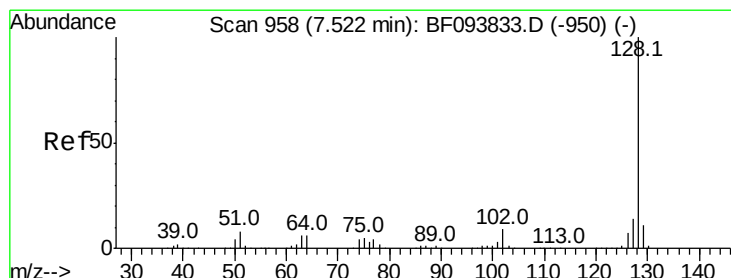
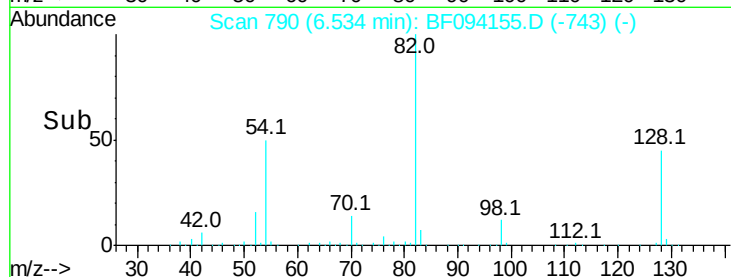
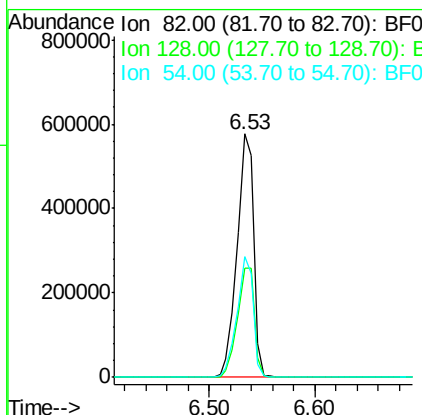
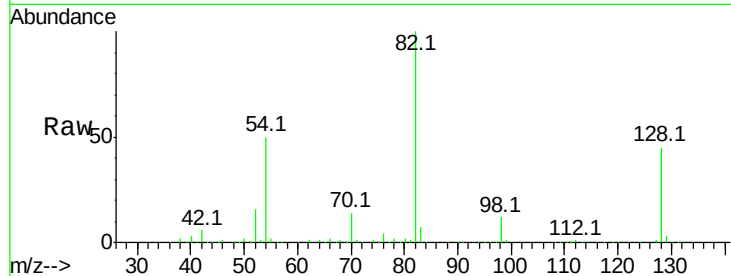




#23
 Nitrobenzene-d5
 Concen: 56.98 ng
 RT: 6.53 min Scan# 790
 Delta R.T. -0.02 min
 Lab File: BF094155.D
 Acq: 4 Apr 2017 8:29

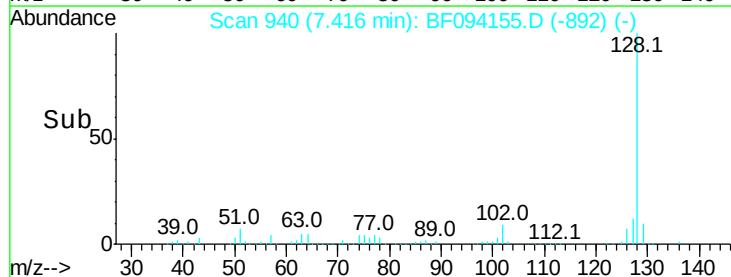
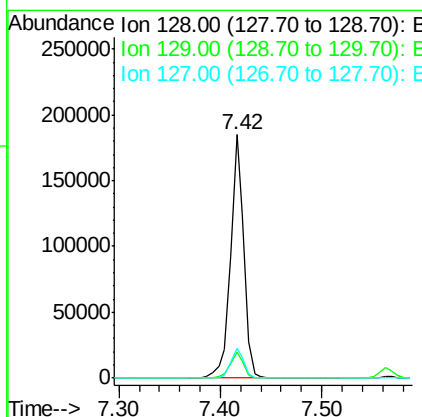
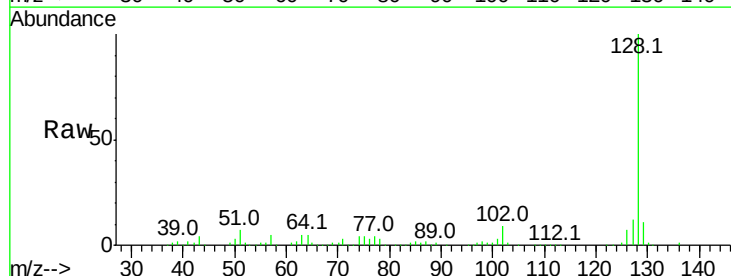
Instrument :
 BNA_F
 ClientSampleId :

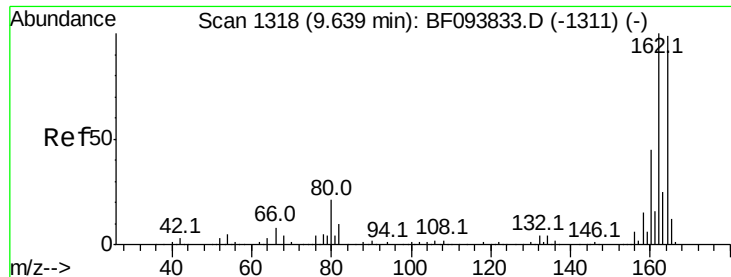
Tot Ion	Ratio	Lower	Upper
82	100		
128	45.0	34.0	51.0
54	49.7	42.2	63.2



#31
 Naphthalene
 Concen: 5.65 ng
 RT: 7.42 min Scan# 940
 Delta R.T. -0.02 min
 Lab File: BF094155.D
 Acq: 4 Apr 2017 8:29

Tgt Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.0	13.6
127	12.3	10.8	16.2

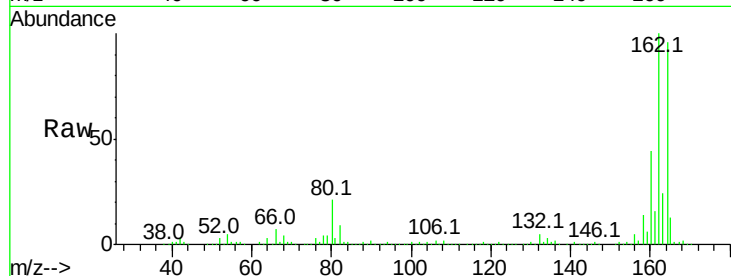




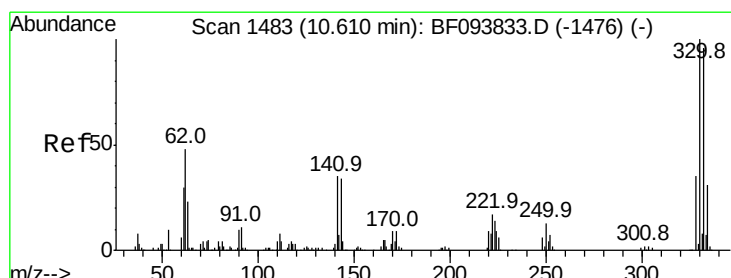
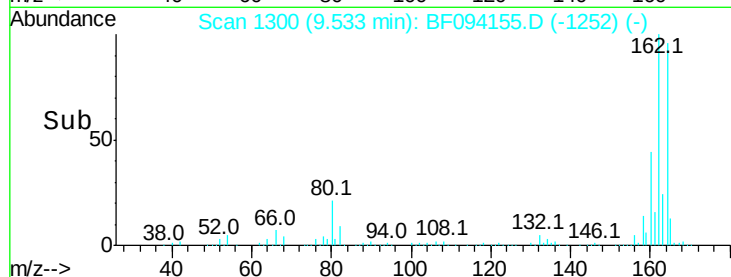
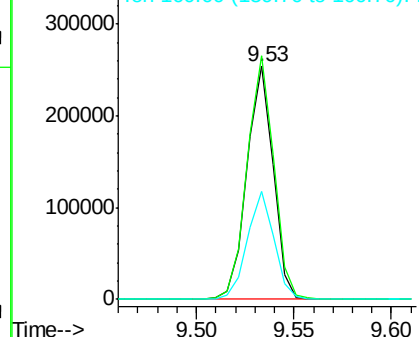
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.53 min Scan# 1300
 Delta R.T. -0.02 min
 Lab File: BF094155.D
 Acq: 4 Apr 2017 8:29

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:164 Resp: 237186
 Ion Ratio Lower Upper
 164 100
 162 104.4 82.6 123.8
 160 46.4 36.2 54.2

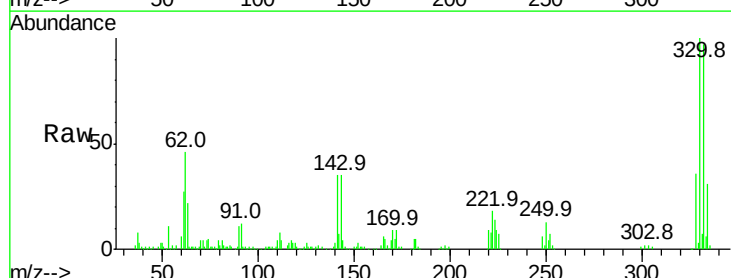


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

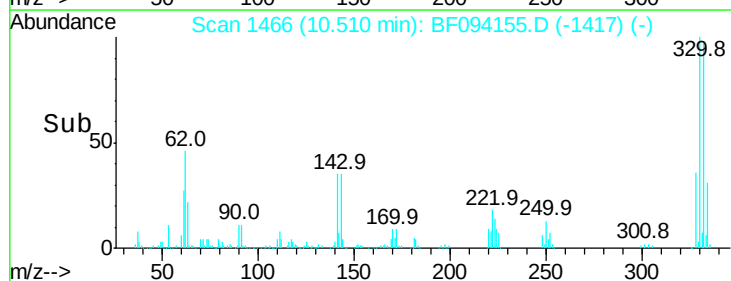
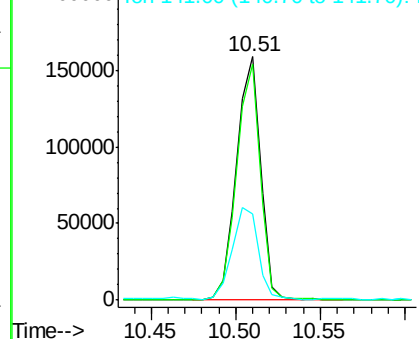


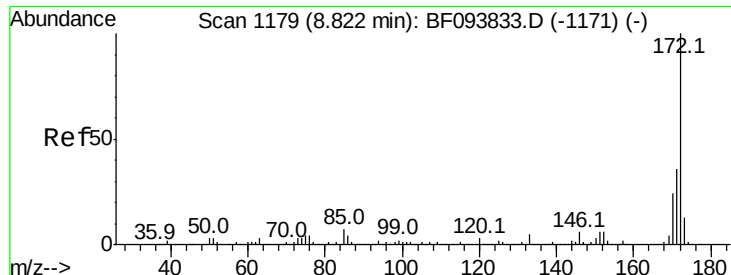
#41
 2,4,6-Tribromophenol
 Concen: 84.02 ng
 RT: 10.51 min Scan# 1466
 Delta R.T. -0.01 min
 Lab File: BF094155.D
 Acq: 4 Apr 2017 8:29

Tgt Ion:330 Resp: 157485
 Ion Ratio Lower Upper
 330 100
 332 95.1 76.6 115.0
 141 40.0 31.4 47.2



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



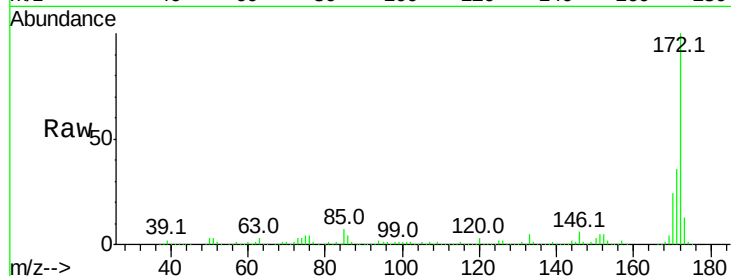


#44
 2-Fluorobiphenyl
 Concen: 72.05 ng
 RT: 8.72 min Scan# 1161
 Delta R.T. -0.02 min
 Lab File: BF094155.D
 Acq: 4 Apr 2017 8:29

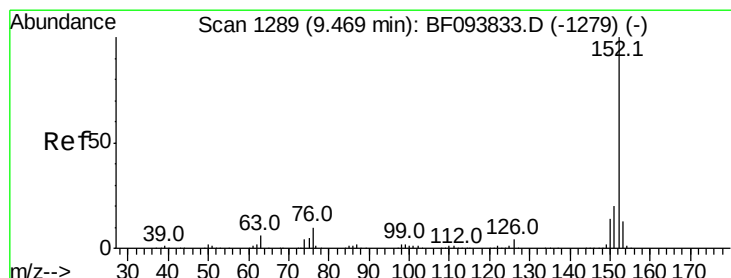
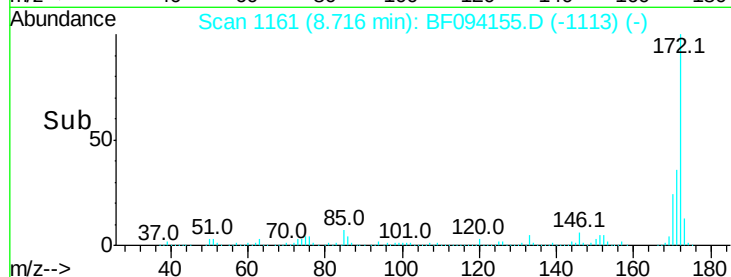
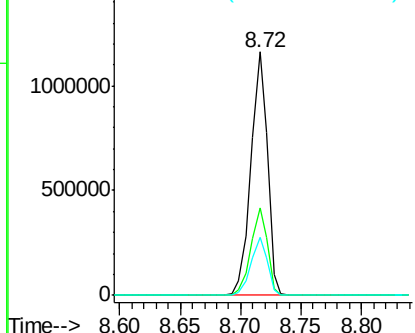
Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:172 Resp: 1120465

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.6	44.4
170	23.9	19.8	29.8



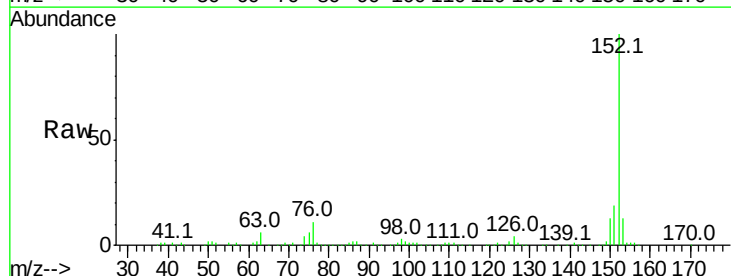
Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E



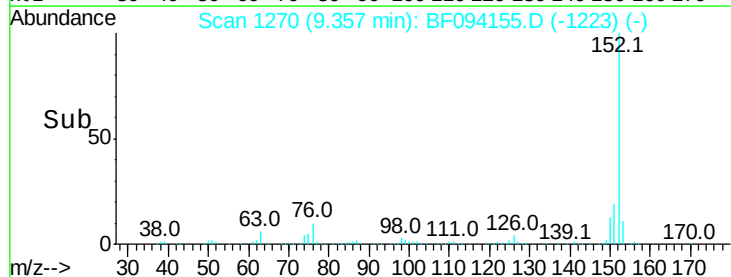
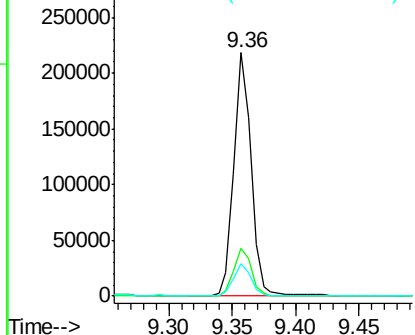
#48
 Acenaphthylene
 Concen: 8.16 ng
 RT: 9.36 min Scan# 1270
 Delta R.T. -0.02 min
 Lab File: BF094155.D
 Acq: 4 Apr 2017 8:29

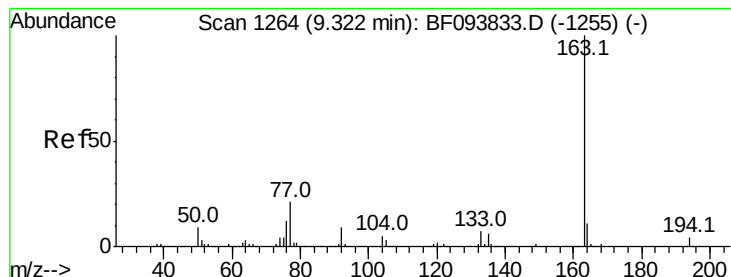
Tgt Ion:152 Resp: 203090

Ion	Ratio	Lower	Upper
152	100		
151	19.5	16.8	25.2
153	13.2	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





#49

Dimethylphthalate

Concen: 7.03 ng

RT: 9.21 min Scan# 1245

Delta R.T. -0.04 min

Lab File: BF094155.D

Acq: 4 Apr 2017 8:29

Instrument :

BNA_F

ClientSampleId :

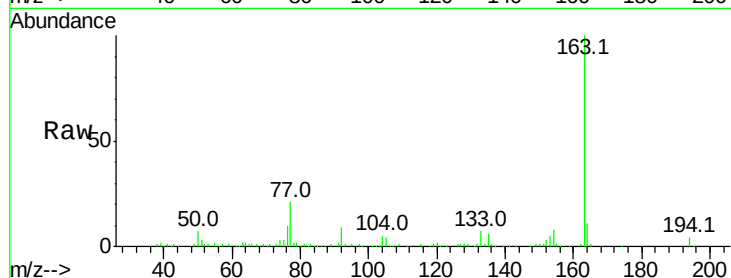
Tot Ion:163 Resp: 118479

Ion Ratio Lower Upper

163 100

194 3.7 2.6 4.0

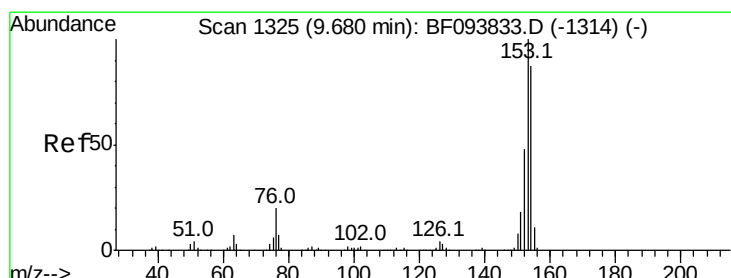
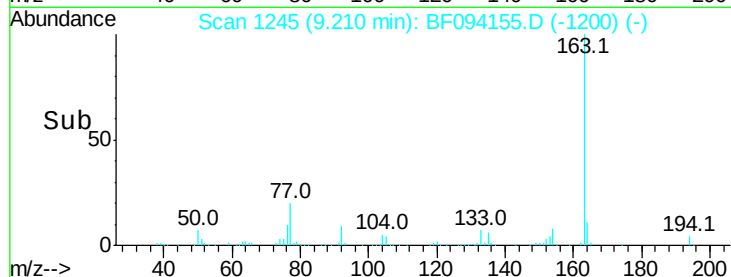
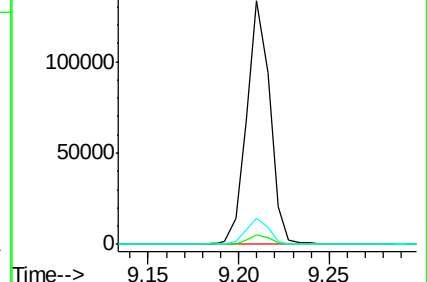
164 10.6 8.4 12.6



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



#51

Acenaphthene

Concen: 2.37 ng

RT: 9.57 min Scan# 1307

Delta R.T. -0.02 min

Lab File: BF094155.D

Acq: 4 Apr 2017 8:29

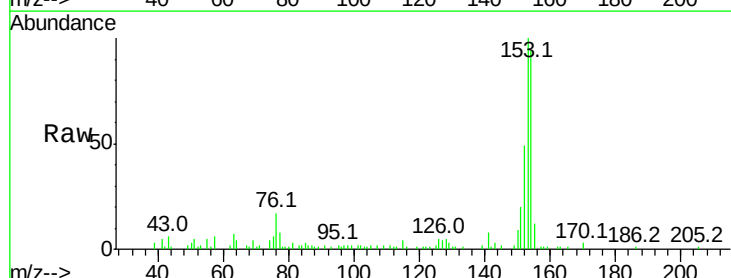
Tgt Ion:154 Resp: 34353

Ion Ratio Lower Upper

154 100

153 106.4 90.5 135.7

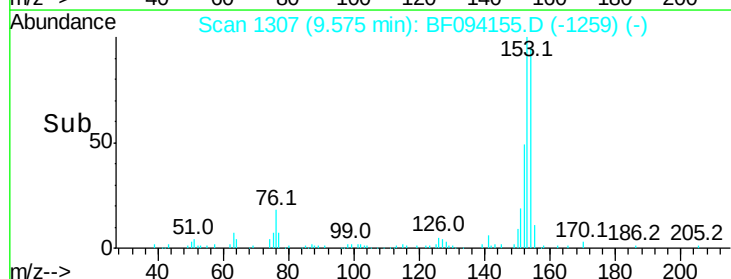
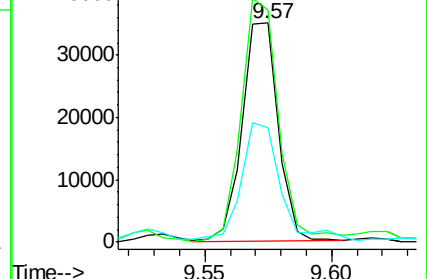
152 52.1 43.6 65.4

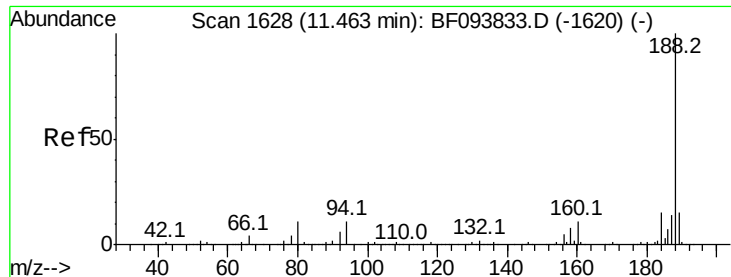


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.36 min Scan# 1610

Delta R.T. -0.02 min

Lab File: BF094155.D

Acq: 4 Apr 2017 8:29

Instrument :

BNA_F

ClientSampleId :

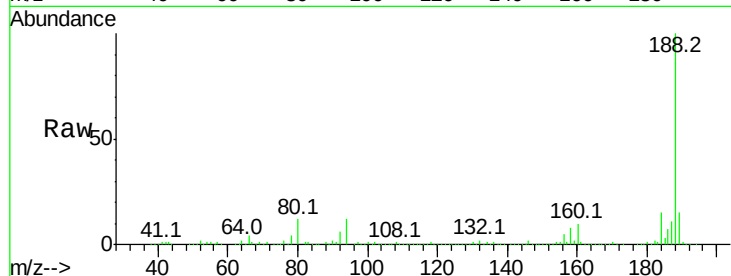
Tot Ion:188 Resp: 351516

Ion Ratio Lower Upper

188 100

94 11.9 9.4 14.2

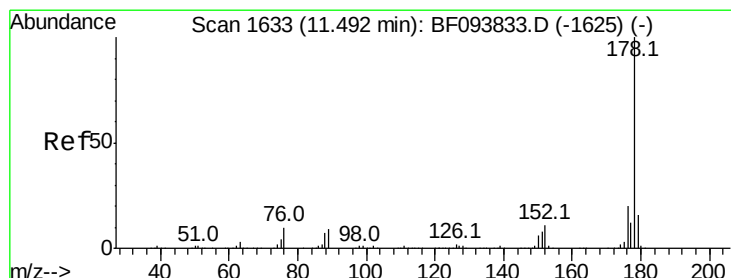
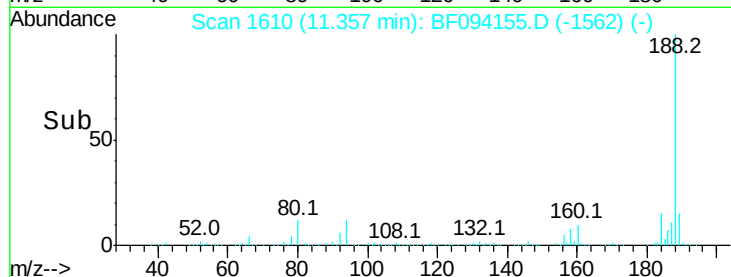
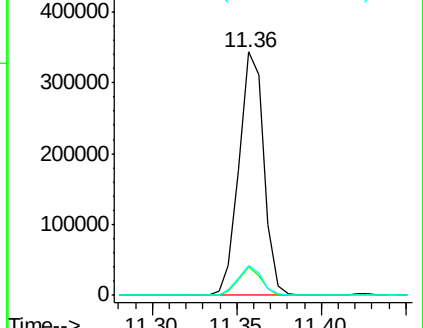
80 12.2 10.2 15.2



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: 11.82 ng

RT: 11.39 min Scan# 1615

Delta R.T. -0.02 min

Lab File: BF094155.D

Acq: 4 Apr 2017 8:29

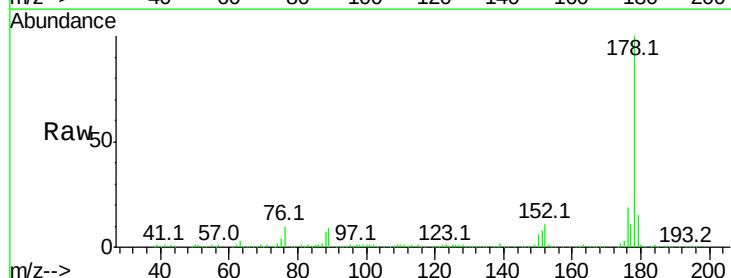
Tgt Ion:178 Resp: 231088

Ion Ratio Lower Upper

178 100

176 19.0 16.2 24.4

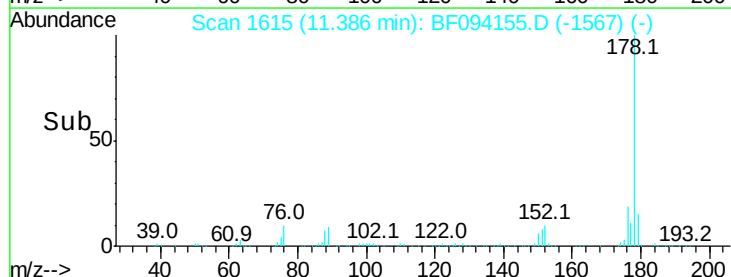
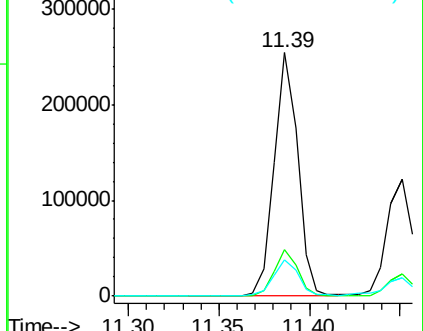
179 15.1 12.6 19.0

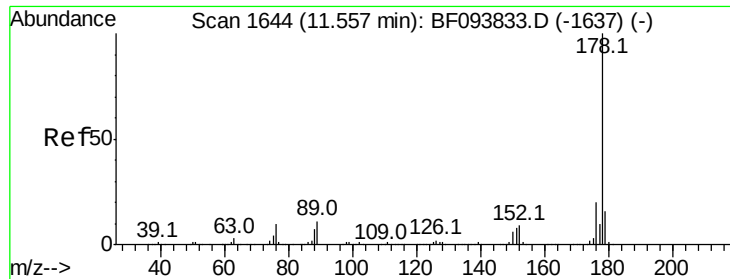


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

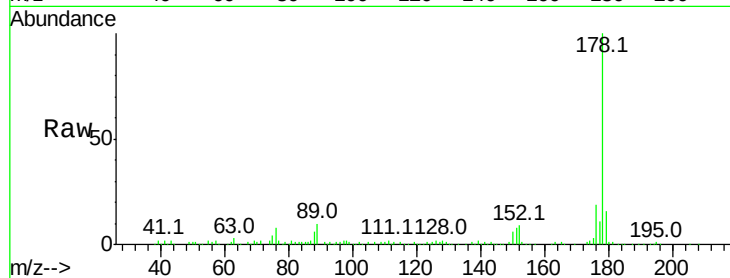




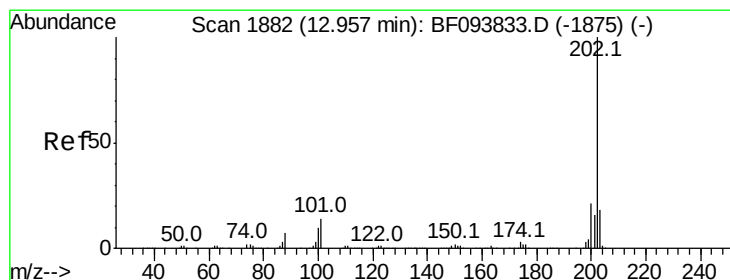
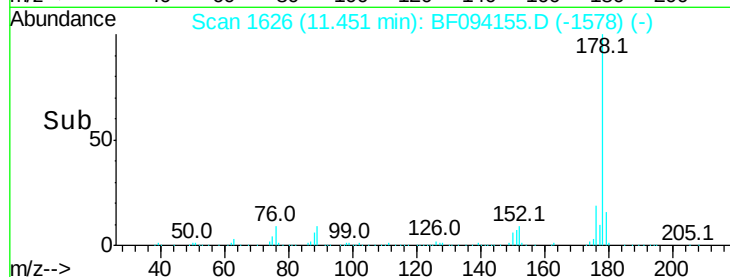
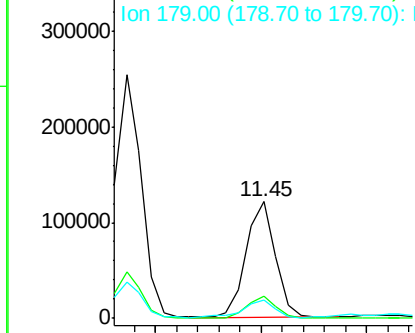
#71
 Anthracene
 Concen: 5.78 ng
 RT: 11.45 min Scan# 1626
 Delta R.T. -0.02 min
 Lab File: BF094155.D
 Acq: 4 Apr 2017 8:29

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:178 Resp: 116298
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.8 23.8
 179 16.0 12.7 19.1

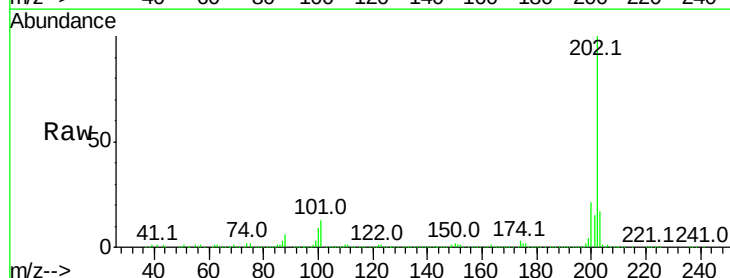


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

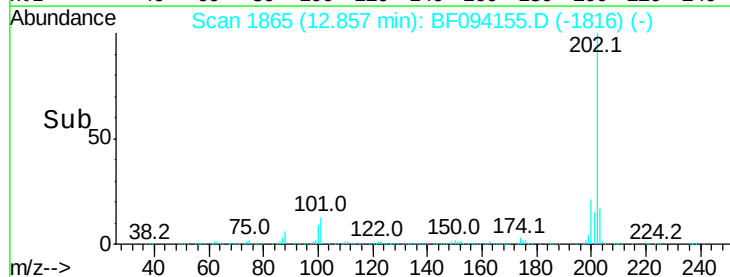
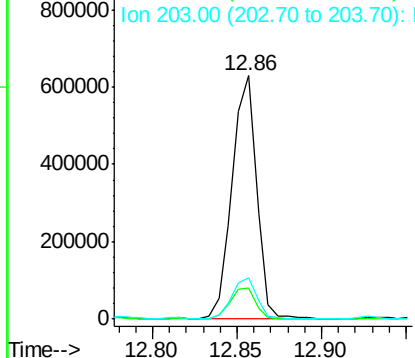


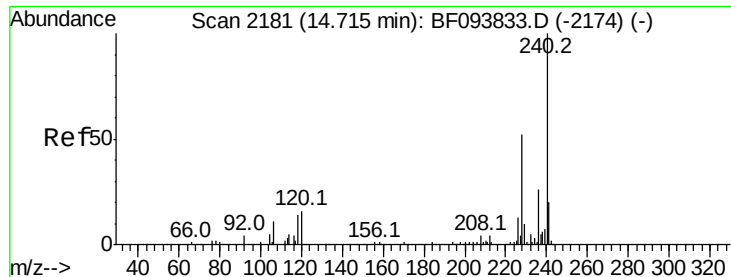
#74
 Fluoranthene
 Concen: 31.54 ng
 RT: 12.86 min Scan# 1865
 Delta R.T. -0.01 min
 Lab File: BF094155.D
 Acq: 4 Apr 2017 8:29

Tgt Ion:202 Resp: 631452
 Ion Ratio Lower Upper
 202 100
 101 12.9 0.0 33.2
 203 17.3 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: 14.62 min Scan# 2164

Delta R.T. -0.01 min

Lab File: BF094155.D

Acq: 4 Apr 2017 8:29

Instrument :

BNA_F

ClientSampleId :

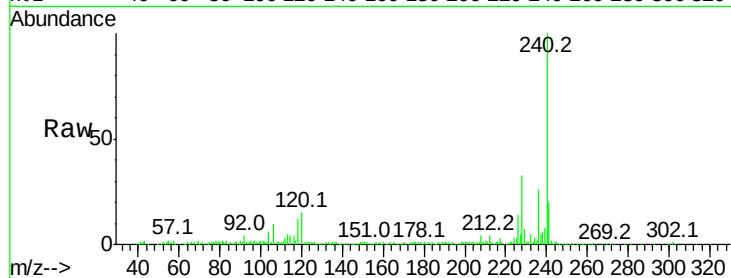
Tot Ion:240 Resp: 298859

Ion Ratio Lower Upper

240 100

120 14.8 5.8 8.8#

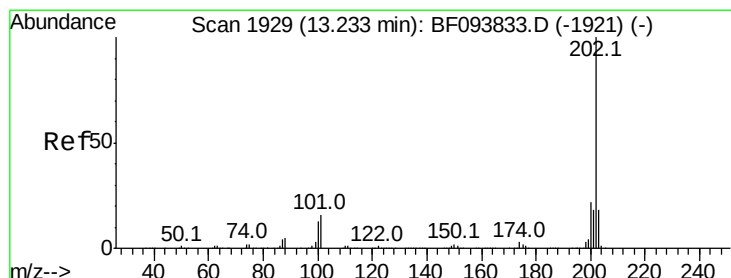
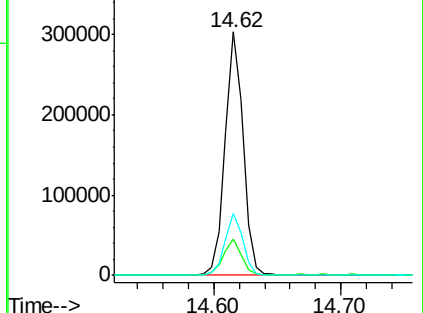
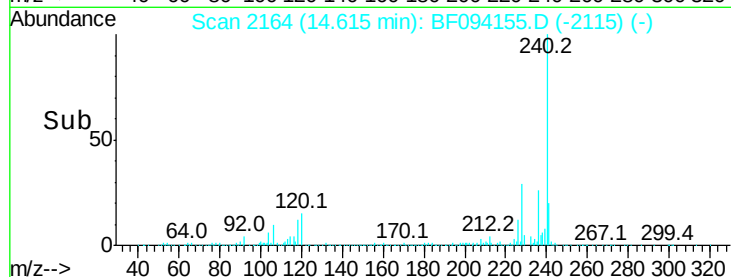
236 25.6 20.5 30.7



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: 49.50 ng

RT: 13.13 min Scan# 1912

Delta R.T. -0.01 min

Lab File: BF094155.D

Acq: 4 Apr 2017 8:29

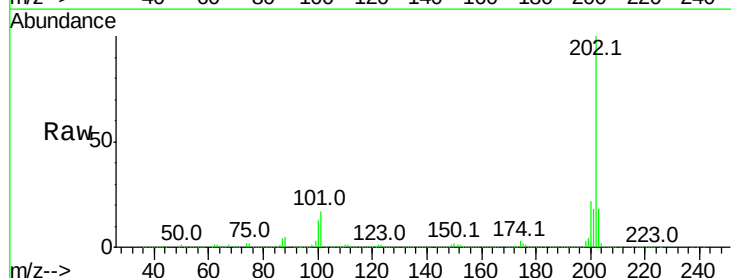
Tgt Ion:202 Resp: 1073695

Ion Ratio Lower Upper

202 100

200 21.8 17.6 26.4

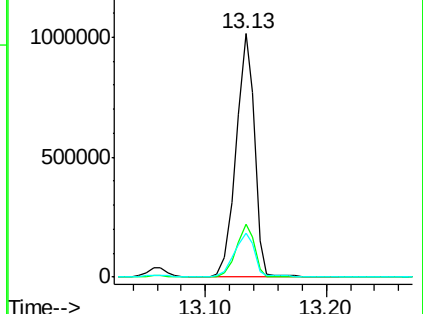
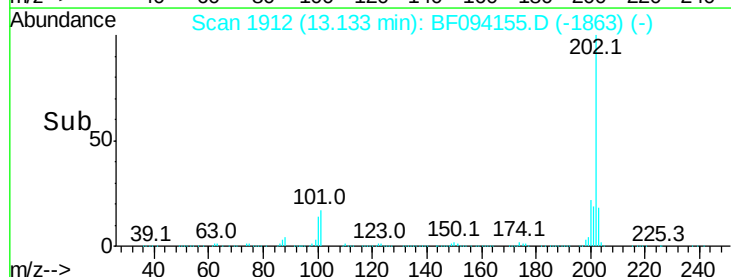
203 18.1 14.4 21.6

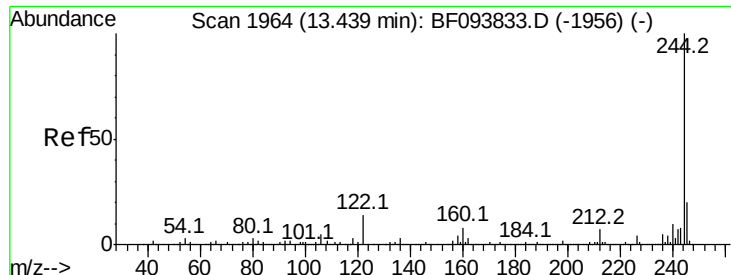


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 52.80 ng

RT: 13.34 min Scan# 1947

Delta R.T. -0.01 min

Lab File: BF094155.D

Acq: 4 Apr 2017 8:29

Instrument :

BNA_F

ClientSampleId :

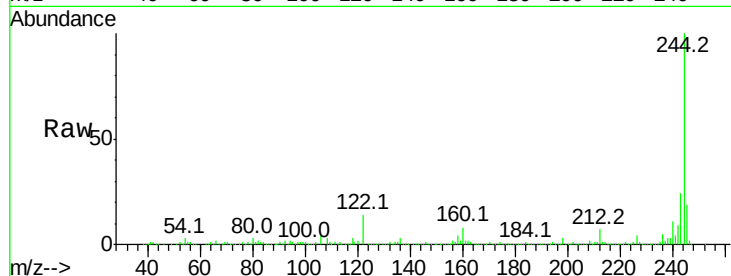
Tot Ion:244 Resp: 703946

Ion Ratio Lower Upper

244 100

212 7.1 6.0 9.0

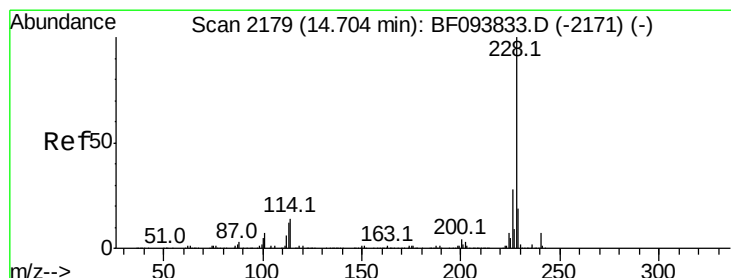
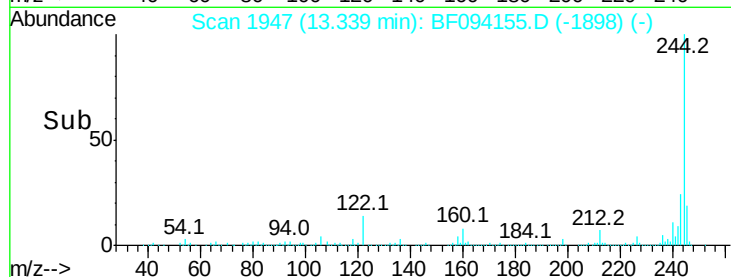
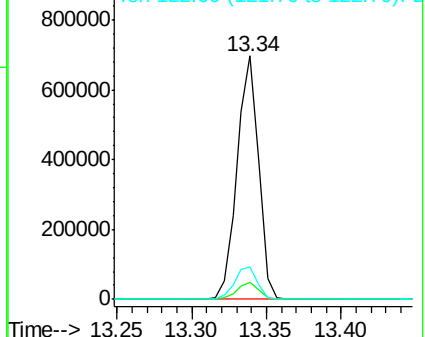
122 13.6 10.3 15.5



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: 22.04 ng

RT: 14.64 min Scan# 2169

Delta R.T. 0.03 min

Lab File: BF094155.D

Acq: 4 Apr 2017 8:29

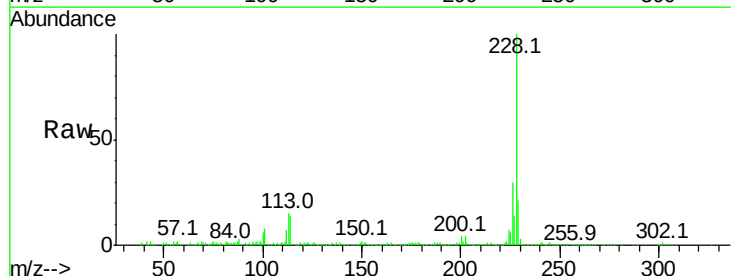
Tgt Ion:228 Resp: 384050

Ion Ratio Lower Upper

228 100

226 30.2 22.6 33.8

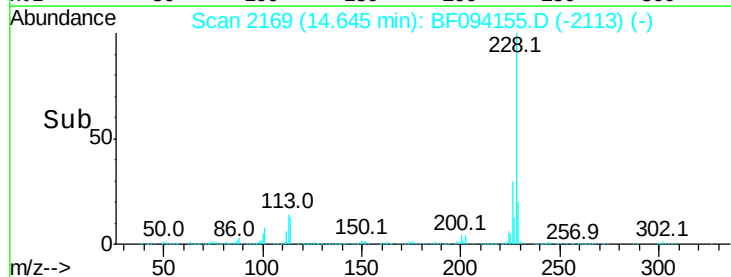
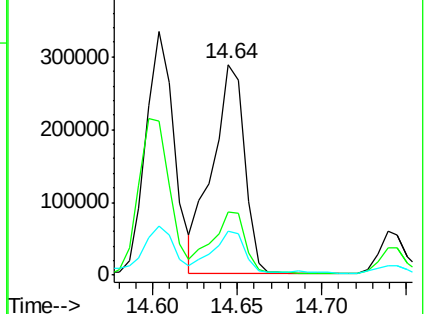
229 20.8 16.3 24.5

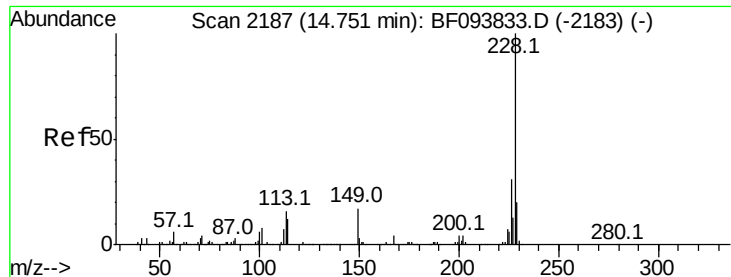


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 23.75 ng

RT: 14.64 min Scan# 2169

Delta R.T. -0.02 min

Lab File: BF094155.D

Acq: 4 Apr 2017 8:29

Instrument :

BNA_F

ClientSampleId :

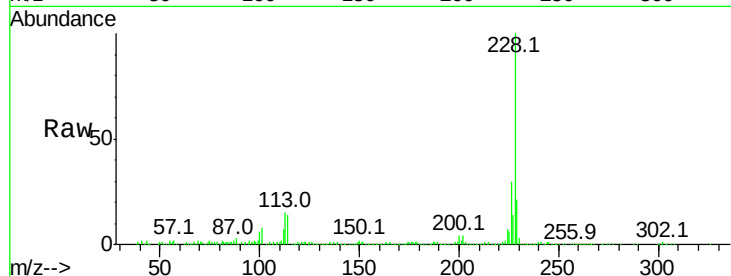
Tot Ion:228 Resp: 384050

Ion Ratio Lower Upper

228 100

226 30.2 24.9 37.3

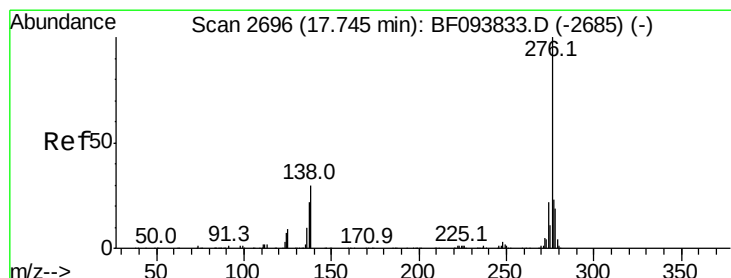
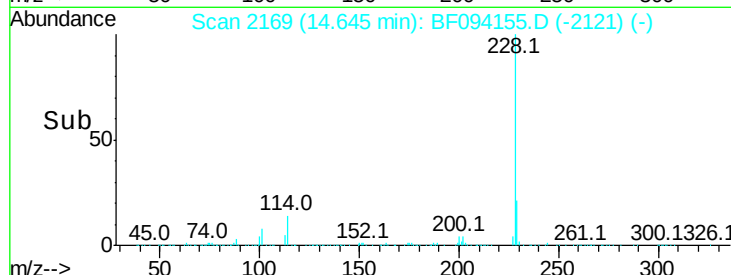
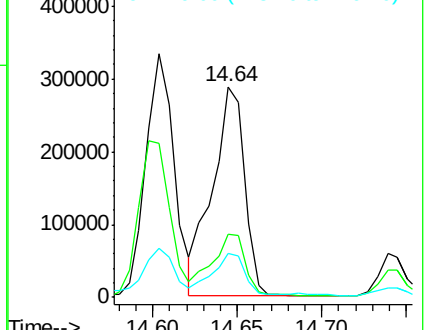
229 20.8 15.8 23.6



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: 19.79 ng

RT: 17.60 min Scan# 2671

Delta R.T. -0.01 min

Lab File: BF094155.D

Acq: 4 Apr 2017 8:29

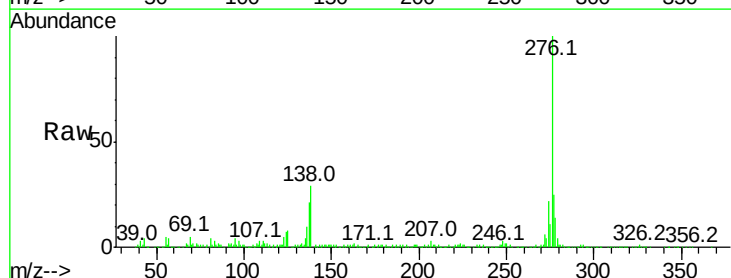
Tgt Ion:276 Resp: 277159

Ion Ratio Lower Upper

276 100

138 29.6 27.8 41.6

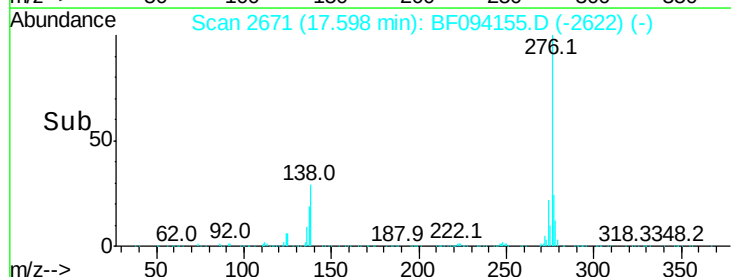
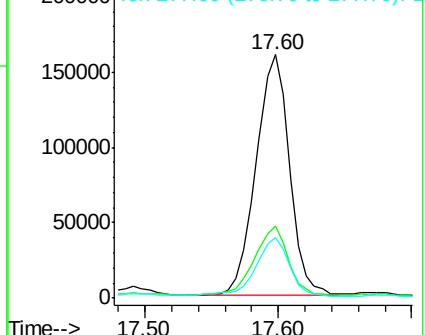
277 25.5 20.2 30.4

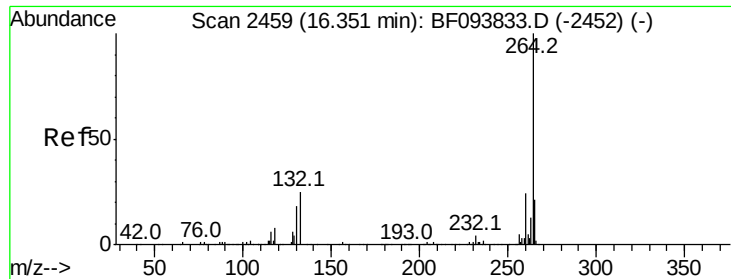


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

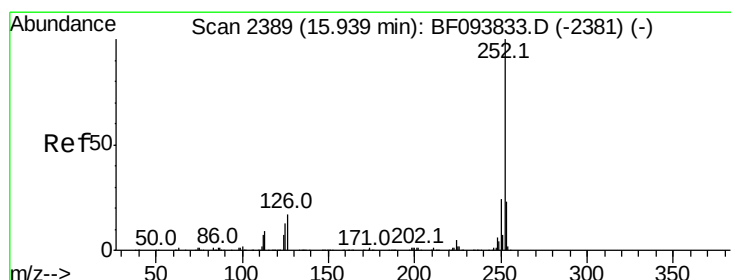
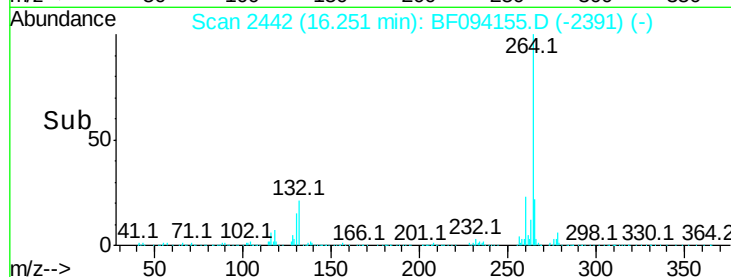
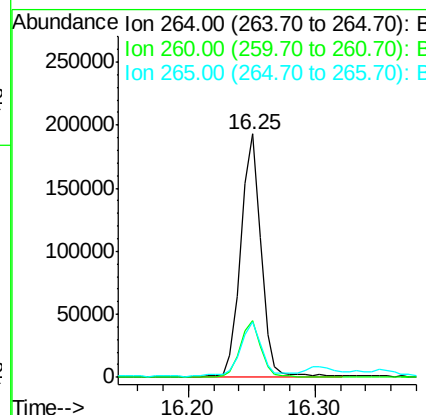
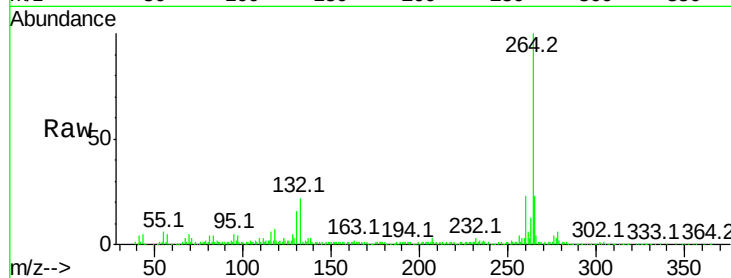




#86
Pervlene-d12
Concen: 20.00 ng
RT: 16.25 min Scan# 2442
Delta R.T. -0.00 min
Lab File: BF094155.D
Acq: 4 Apr 2017 8:29

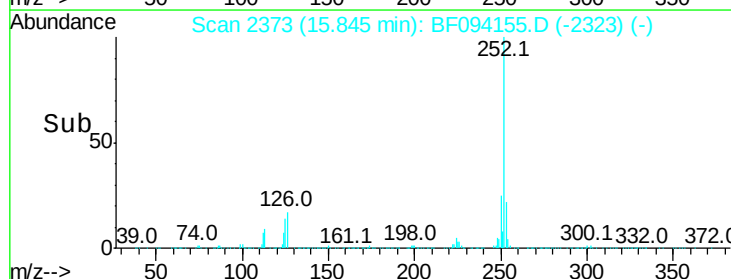
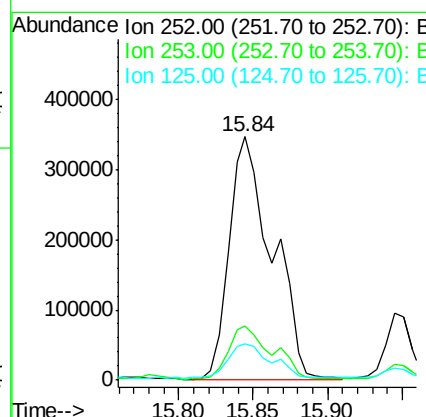
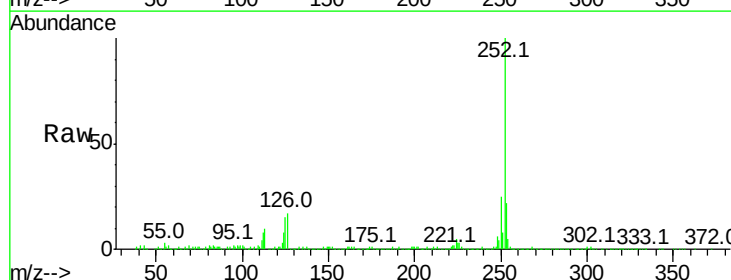
Instrument :
BNA_F
ClientSampled :

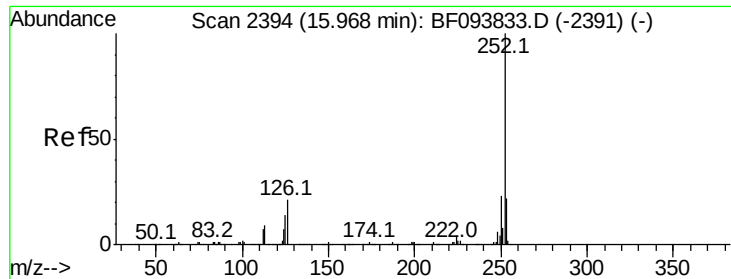
Tot Ion:264 Resp: 210441
Ion Ratio Lower Upper
264 100
260 23.1 19.5 29.3
265 22.9 17.2 25.8



#87
Benzo(b)fluoranthene
Concen: 53.86 ng
RT: 15.84 min Scan# 2373
Delta R.T. -0.01 min
Lab File: BF094155.D
Acq: 4 Apr 2017 8:29

Tgt Ion:252 Resp: 694728
Ion Ratio Lower Upper
252 100
253 22.1 18.1 27.1
125 14.8 9.8 14.8#

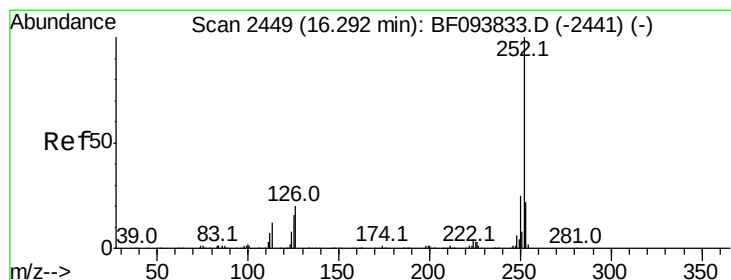
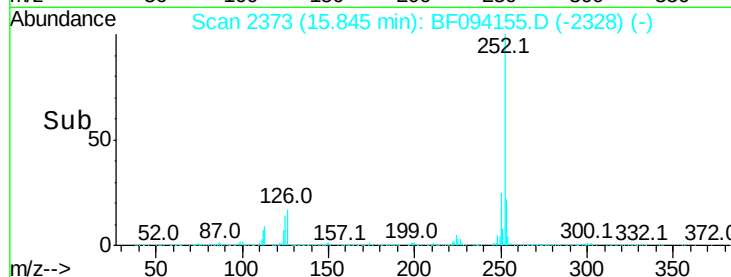
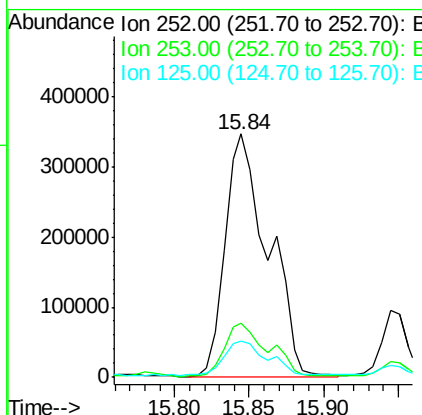
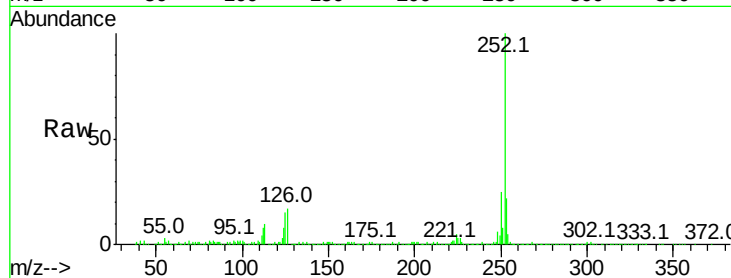




#88
Benzo(k)fluoranthene
Concen: 55.04 ng
RT: 15.84 min Scan# 2373
Delta R.T. -0.04 min
Lab File: BF094155.D
Acq: 4 Apr 2017 8:29

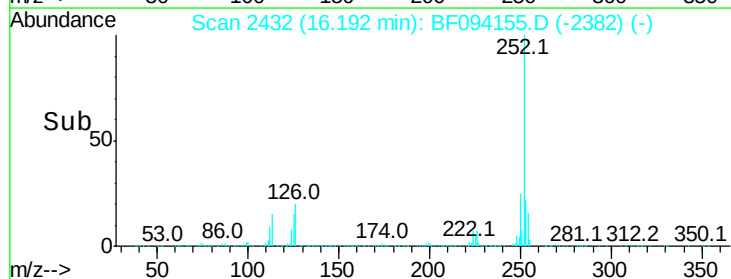
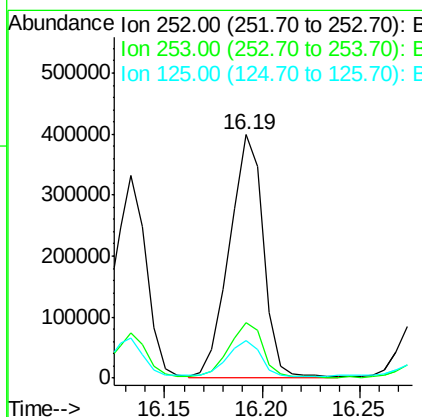
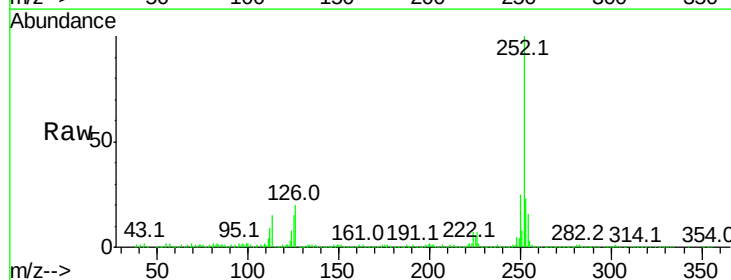
Instrument :
BNA_F
ClientSampleId :

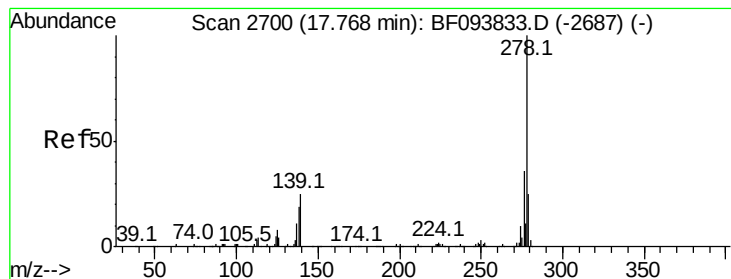
Tot Ion:252 Resp: 694728
Ion Ratio Lower Upper
252 100
253 22.1 18.4 27.6
125 14.8 13.1 19.7



#89
Benzo(a)pyrene
Concen: 40.24 ng
RT: 16.19 min Scan# 2432
Delta R.T. -0.01 min
Lab File: BF094155.D
Acq: 4 Apr 2017 8:29

Tgt Ion:252 Resp: 477998
Ion Ratio Lower Upper
252 100
253 22.7 17.5 26.3
125 15.3 11.0 16.4





#90

Dibenzo(a,h)anthracene

Concen: 4.73 ng

RT: 17.43 min Scan# 2643

Delta R.T. -0.20 min

Lab File: BF094155.D

Acq: 4 Apr 2017 8:29

Instrument :

BNA_F

ClientSampleId :

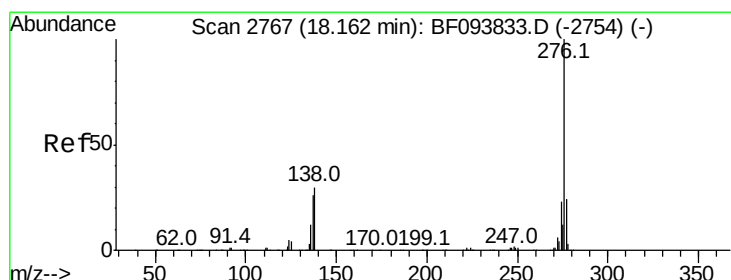
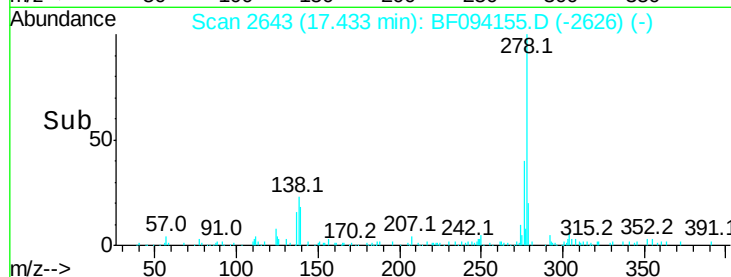
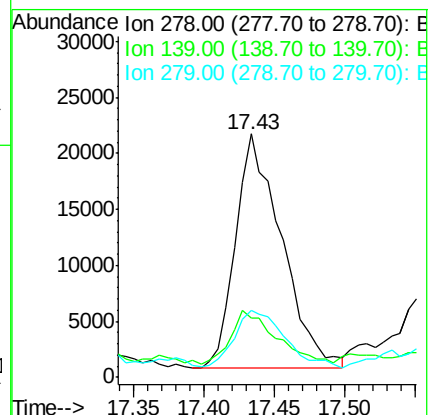
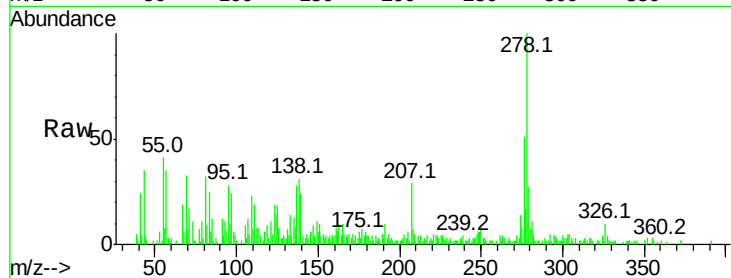
Tot Ion:278 Resp: 47623

Ion Ratio Lower Upper

278 100

139 24.3 16.6 24.8

279 27.4 19.3 28.9



#91

Benzo(g,h,i)perylene

Concen: 38.68 ng

RT: 18.00 min Scan# 2739

Delta R.T. -0.01 min

Lab File: BF094155.D

Acq: 4 Apr 2017 8:29

Tgt Ion:276 Resp: 392189

Ion Ratio Lower Upper

276 100

277 23.0 18.6 28.0

138 30.5 25.4 38.0

