

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092517\
 Data File : BF098800.D
 Acq On : 25 Sep 2017 23:27
 Operator : SJ/JU
 Sample : I5380-01 50X
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Sep 26 05:22:15 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Sep 23 13:50:58 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.91	152	150236	20.00	ng	-0.01
21) Naphthalene-d8	8.19	136	645493	20.00	ng	-0.01
38) Acenaphthene-d10	9.95	164	307984	20.00	ng	-0.01
63) Phenanthrene-d10	11.44	188	555585	20.00	ng	0.00
75) Chrysene-d12	14.08	240	338654	20.00	ng	0.00
86) Perylene-d12	15.57	264	276466	20.00	ng	0.00

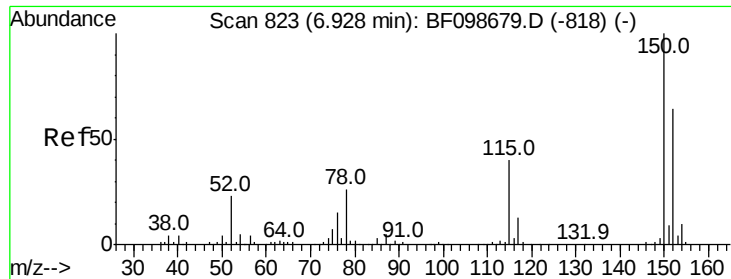
System Monitoring Compounds

5) 2-Fluorophenol	5.52	112	13855	1.47	ng	-0.02
7) Phenol-d6	6.52	99	19895	1.71	ng	-0.02
23) Nitrobenzene-d5	7.47	82	11266	1.12	ng	-0.02
41) 2,4,6-Tribromophenol	10.73	330	5515	2.19	ng	-0.02
44) 2-Fluorobiphenyl	9.26	172	33215	1.80	ng	-0.02
78) Terphenyl-d14	13.02	244	36609	2.46	ng	-0.02

Target Compounds

						Qvalue
31) Naphthalene	8.22	128	133817	4.414	ng	98
37) 2-Methylnaphthalene	8.90	142	40213	2.040	ng	99
50) 2,6-Dinitrotoluene	9.95	165	40863	8.075	ng	# 26
51) Acenaphthene	9.98	154	120176	6.236	ng	98
54) Dibenzofuran	10.15	168	117587	4.583	ng	98
55) 4-Nitrophenol	10.15	139	44550	8.929	ng	# 10
57) Fluorene	10.50	166	172362	8.357	ng	99
70) Phenanthrene	11.47	178	1429588	48.071	ng	99
71) Anthracene	11.52	178	506160	16.634	ng	99
72) Carbazole	11.66	167	125500	4.212	ng	99
74) Fluoranthene	12.66	202	1968900	65.382	ng	99
77) Pvrene	12.89	202	1672560	64.769	ng	100
80) Benzo(a)anthracene	14.07	228	694010	33.844	ng	98
82) Chrysene	14.10	228	550768	28.211	ng	97
85) Indeno(1,2,3-cd)pyrene	17.07	276	282306	18.077	ng	96
87) Benzo(b)fluoranthene	15.13	252	786785	46.286	ng	# 95
88) Benzo(k)fluoranthene	15.13	252	786785	46.862	ng	98
89) Benzo(a)pyrene	15.50	252	416802	26.713	ng	# 94
90) Dibenzo(a,h)anthracene	17.08	278	65450	5.241	ng	94
91) Benzo(a,h,i)perylene	17.53	276	262635	21.278	ng	97

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

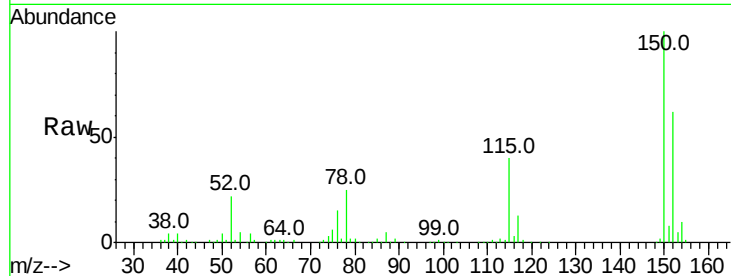


#1

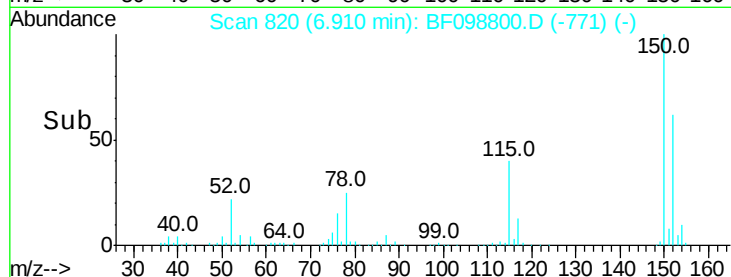
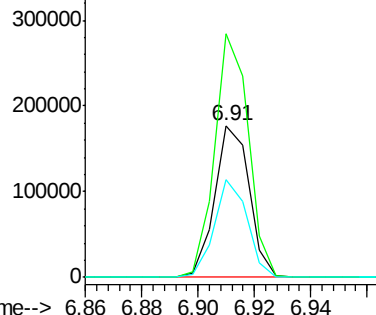
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.91 min Scan# 820
 Delta R.T. -0.01 min
 Lab File: BF098800.D
 Acq: 25 Sep 2017 23:27

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion:152 Resp: 150236
 Ion Ratio Lower Upper
 152 100
 150 160.6 124.6 186.8
 115 64.6 50.1 75.1



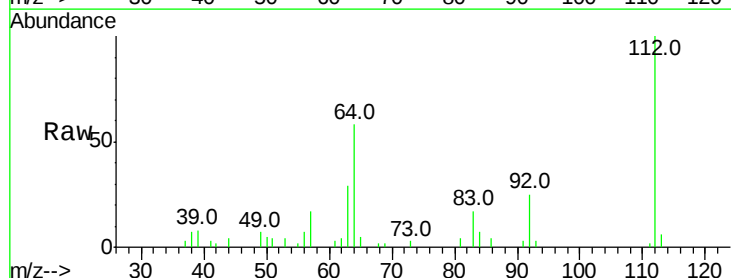
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



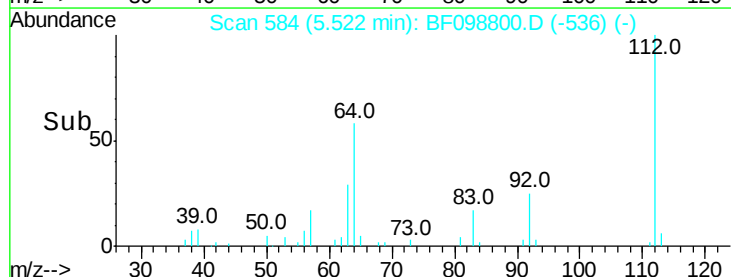
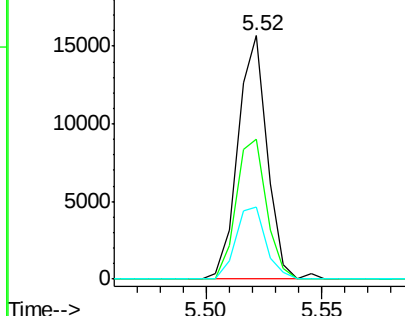
#5

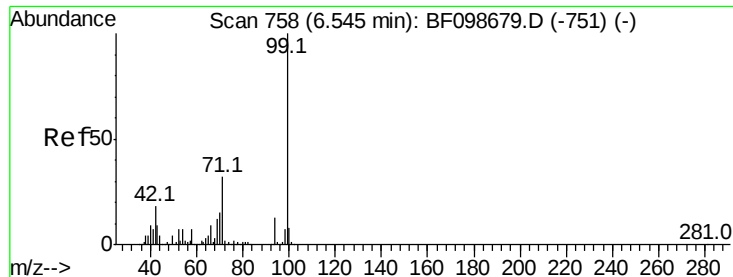
2-Fluorophenol
 Concen: 1.468 ng
 RT: 5.52 min Scan# 584
 Delta R.T. -0.02 min
 Lab File: BF098800.D
 Acq: 25 Sep 2017 23:27

Tgt Ion:112 Resp: 13855
 Ion Ratio Lower Upper
 112 100
 64 57.6 47.9 71.9
 63 29.4 23.7 35.5



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: 1.709 ng

RT: 6.52 min Scan# 754

Delta R.T. -0.02 min

Lab File: BF098800.D

Acq: 25 Sep 2017 23:27

Instrument :

BNA_F

ClientSampleId :

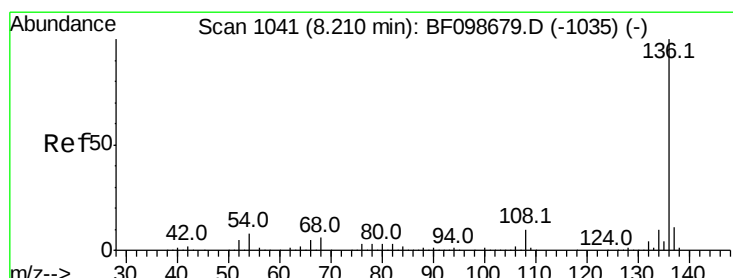
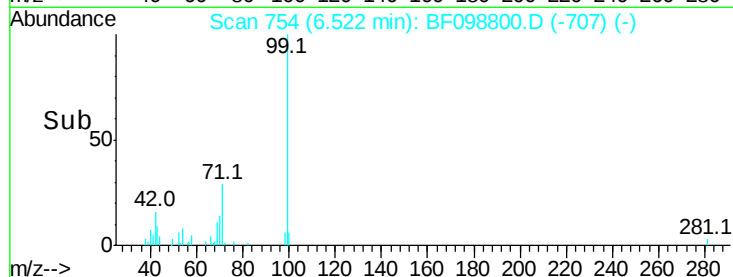
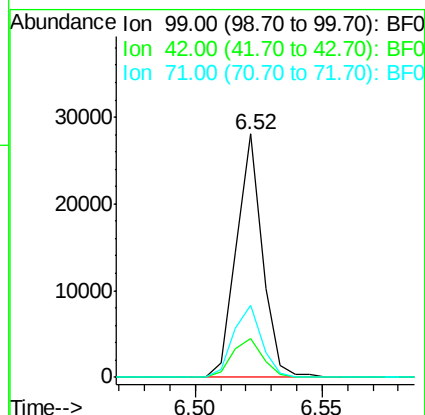
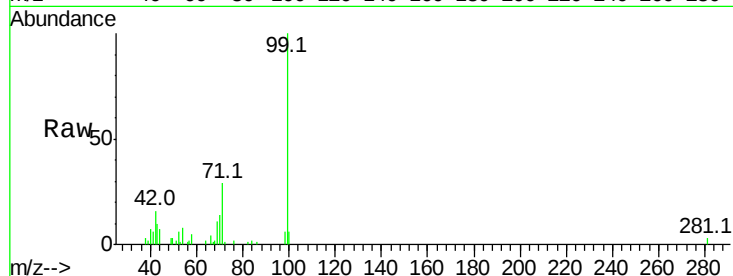
Tot Ion: 99 Resp: 19895

Ion Ratio Lower Upper

99 100

42 16.2 14.5 21.7

71 29.4 25.4 38.0



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.19 min Scan# 1038

Delta R.T. -0.01 min

Lab File: BF098800.D

Acq: 25 Sep 2017 23:27

Tgt Ion: 136 Resp: 645493

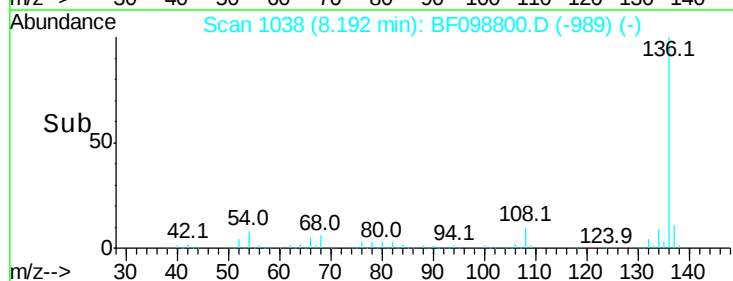
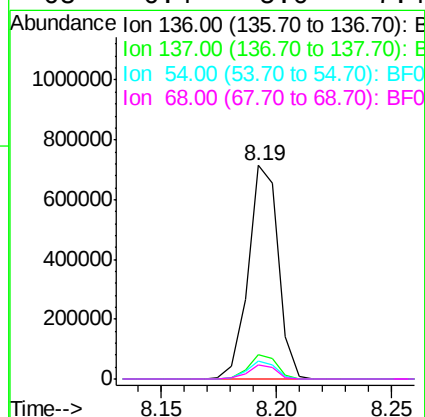
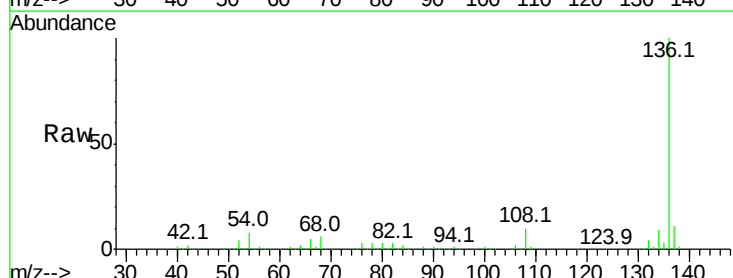
Ion Ratio Lower Upper

136 100

137 11.5 8.9 13.3

54 8.2 6.6 9.8

68 6.4 5.0 7.4

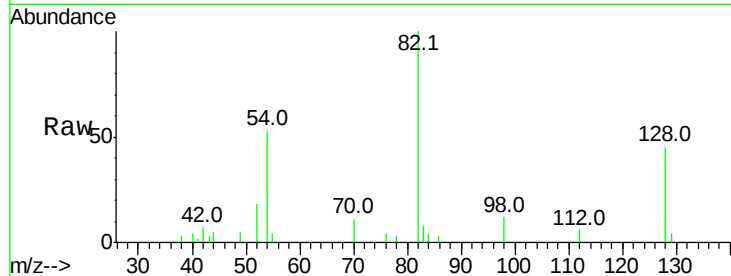




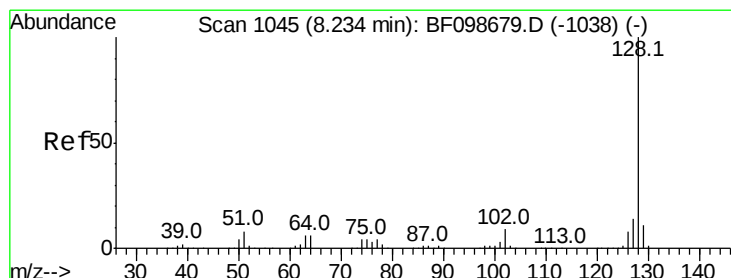
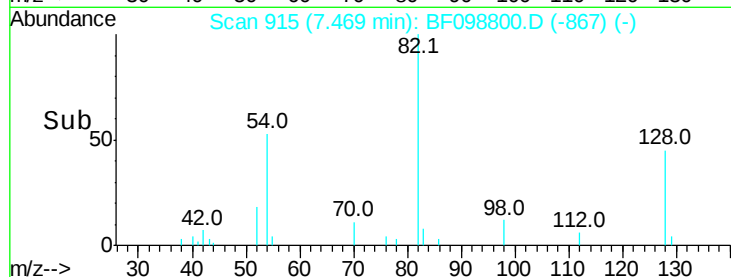
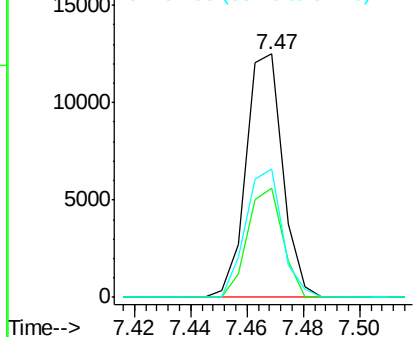
#23
Nitrobenzene-d5
Concen: 1.119 ng
RT: 7.47 min Scan# 915
Delta R.T. -0.02 min
Lab File: BF098800.D
Acq: 25 Sep 2017 23:27

Instrument :
BNA_F
ClientSampleId :

Tot Ion: 82 Resp: 11266
Ion Ratio Lower Upper
82 100
128 44.7 36.1 54.1
54 52.8 41.4 62.2

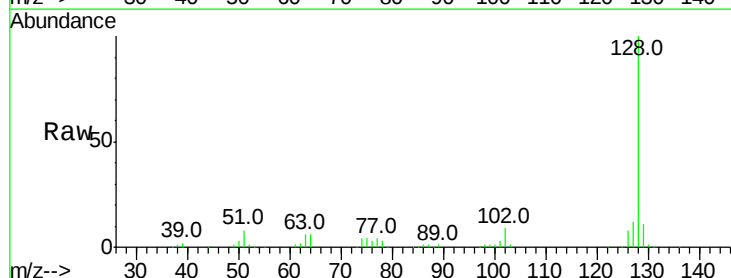


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

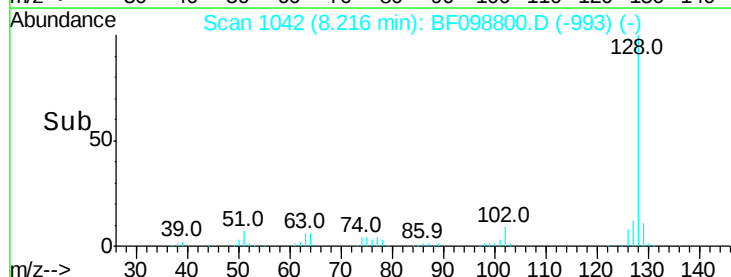
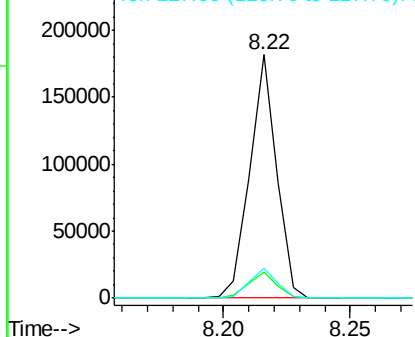


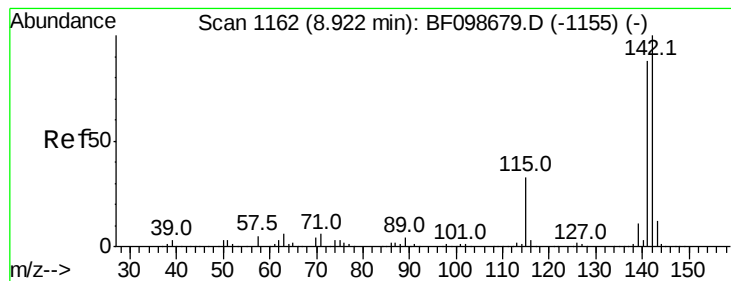
#31
Naphthalene
Concen: 4.414 ng
RT: 8.22 min Scan# 1042
Delta R.T. -0.01 min
Lab File: BF098800.D
Acq: 25 Sep 2017 23:27

Tgt Ion: 128 Resp: 133817
Ion Ratio Lower Upper
128 100
129 10.8 8.8 13.2
127 12.5 10.9 16.3



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





#37

2-Methylnaphthalene

Concen: 2.040 ng

RT: 8.90 min Scan# 1159

Delta R.T. -0.01 min

Lab File: BF098800.D

Acq: 25 Sep 2017 23:27

Instrument :

BNA_F

ClientSampleId :

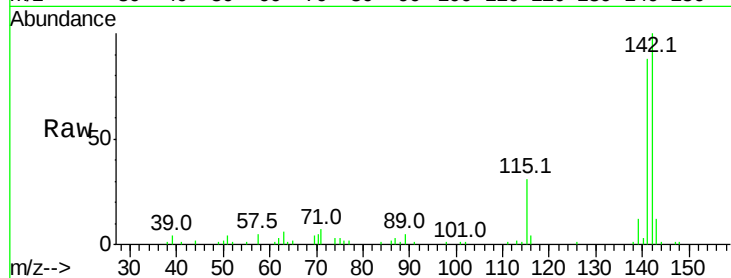
Tot Ion:142 Resp: 40213

Ion Ratio Lower Upper

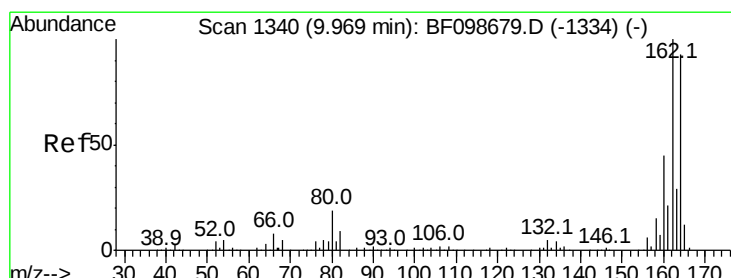
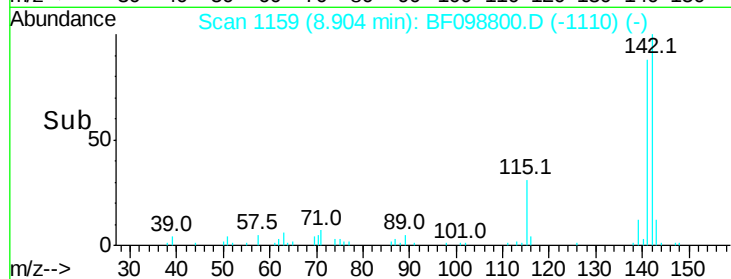
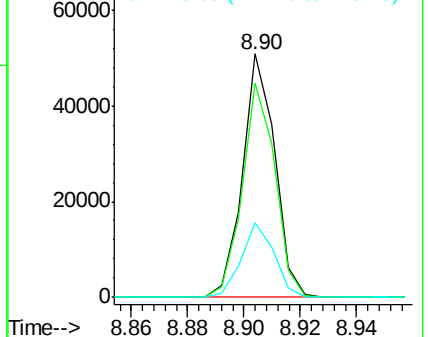
142 100

141 87.7 70.8 106.2

115 30.7 26.1 39.1



Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.95 min Scan# 1337

Delta R.T. -0.01 min

Lab File: BF098800.D

Acq: 25 Sep 2017 23:27

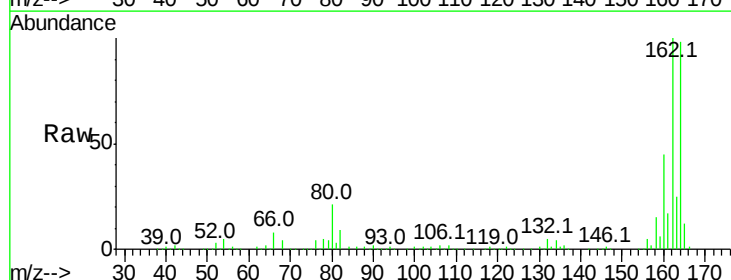
Tgt Ion:164 Resp: 307984

Ion Ratio Lower Upper

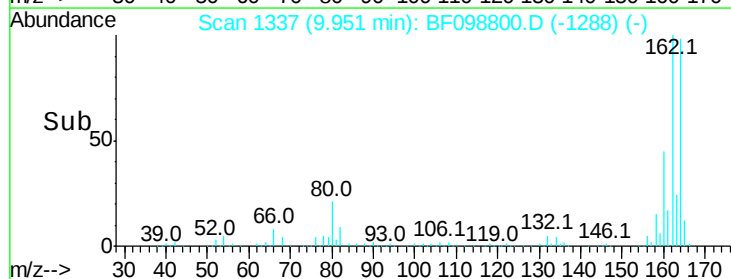
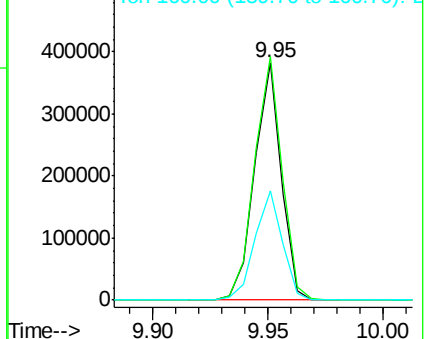
164 100

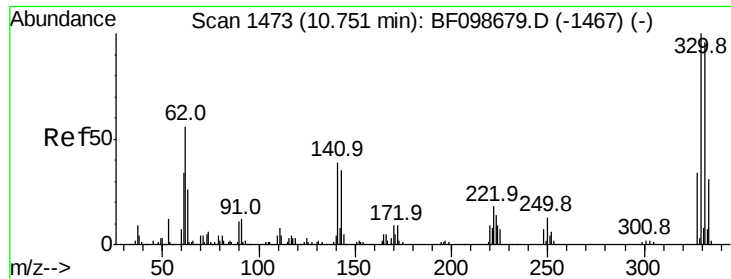
162 102.5 86.1 129.1

160 46.3 38.3 57.5



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

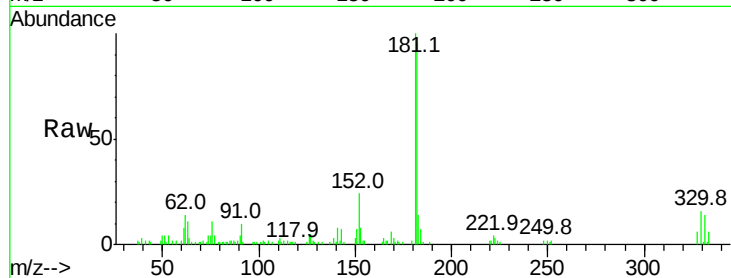




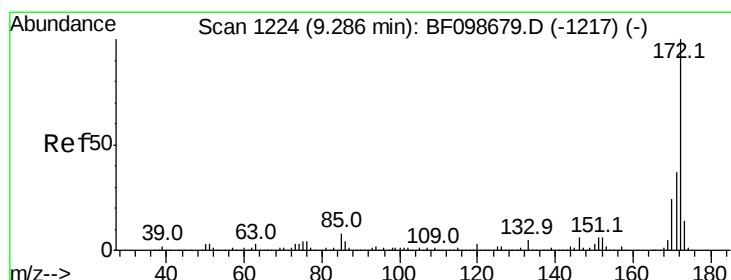
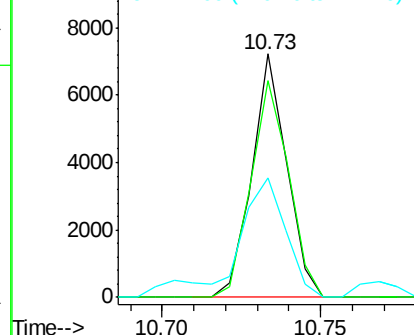
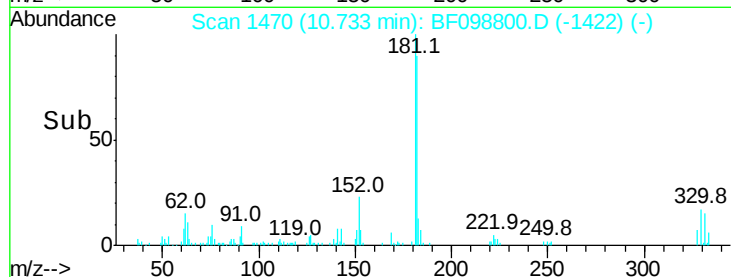
#41
 2,4,6-Tribromophenol
 Concen: 2.188 ng
 RT: 10.73 min Scan# 1470
 Delta R.T. -0.02 min
 Lab File: BF098800.D
 Acq: 25 Sep 2017 23:27

Instrument :
 BNA_F
 ClientSampled :

Tot Ion	330	332	141	Ratio	Lower	Upper
Resp:	5515					
Ion	100	96.0	69.3			
		77.0	29.9			
		115.6	44.9#			

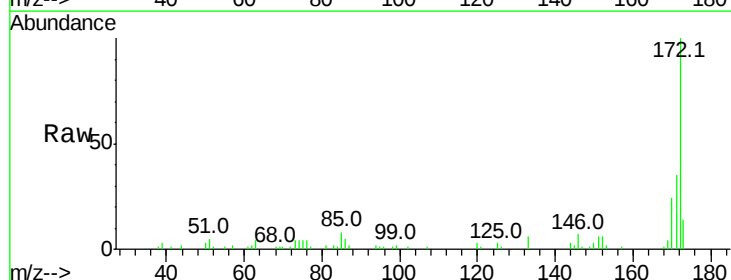


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

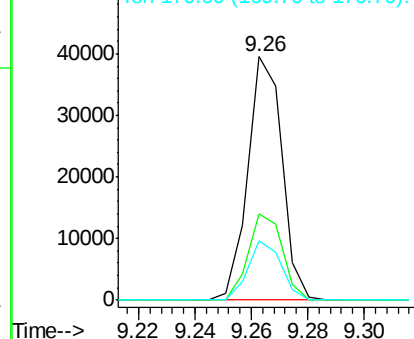
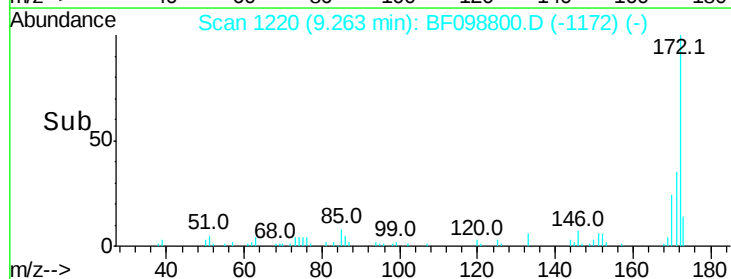


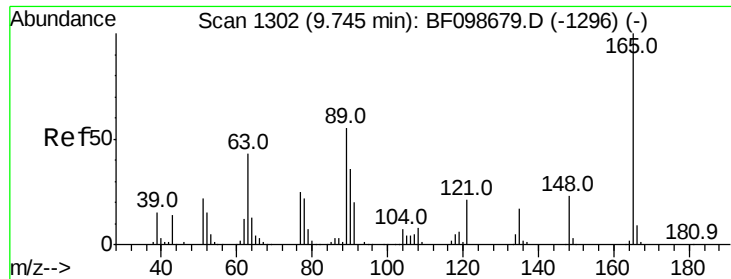
#44
 2-Fluorobiphenyl
 Concen: 1.800 ng
 RT: 9.26 min Scan# 1220
 Delta R.T. -0.02 min
 Lab File: BF098800.D
 Acq: 25 Sep 2017 23:27

Tgt Ion	172	171	170	Ratio	Lower	Upper
Resp:	33215					
Ion	100	35.3	24.2			
		29.7	19.6			
		44.5	29.4			



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

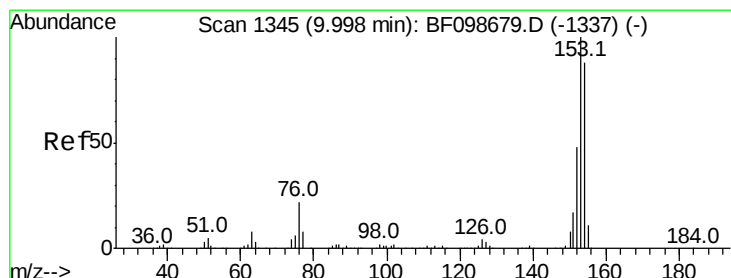
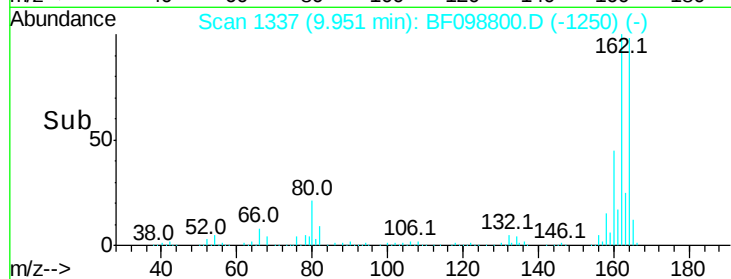
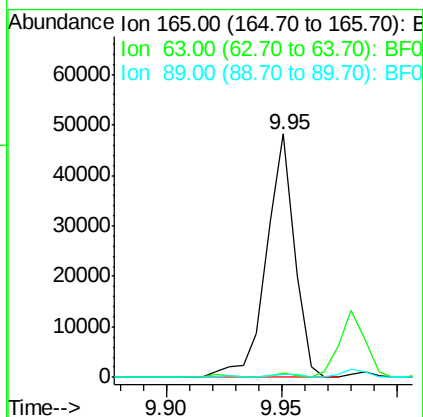
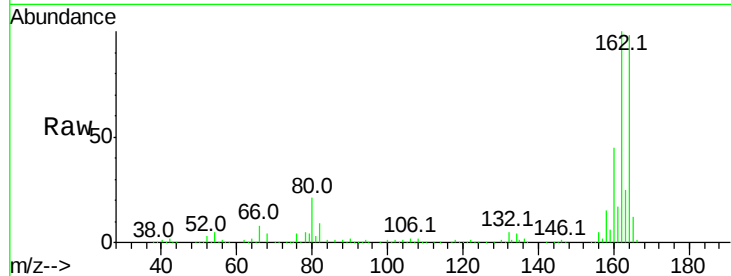




#50
 2,6-Dinitrotoluene
 Concen: 8.075 ng
 RT: 9.95 min Scan# 1337
 Delta R.T. 0.21 min
 Lab File: BF098800.D
 Acq: 25 Sep 2017 23:27

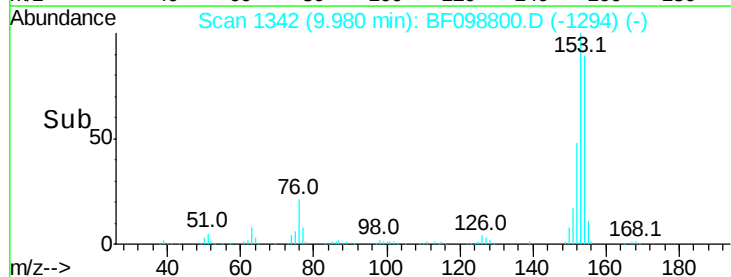
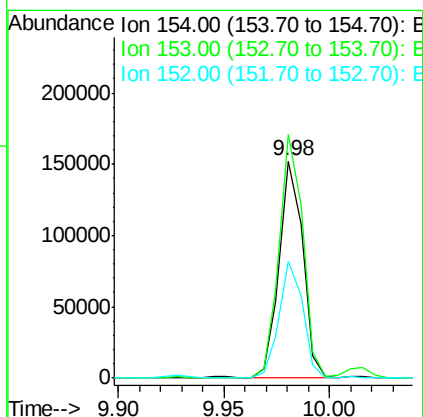
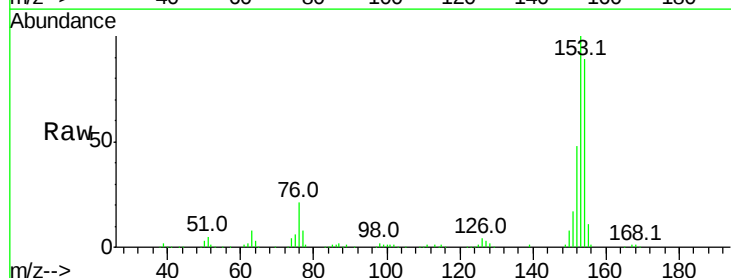
Instrument :
 BNA_F
 ClientSampleId :

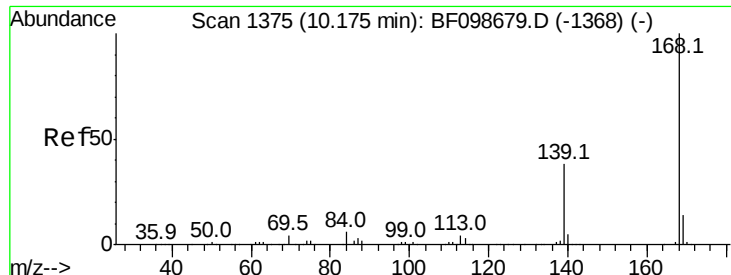
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.5	44.7	67.1#
89	1.2	44.0	66.0#



#51
 Acenaphthene
 Concen: 6.236 ng
 RT: 9.98 min Scan# 1342
 Delta R.T. -0.02 min
 Lab File: BF098800.D
 Acq: 25 Sep 2017 23:27

Tgt Ion	Ratio	Lower	Upper
154	100		
153	112.1	91.2	136.8
152	53.6	43.8	65.8

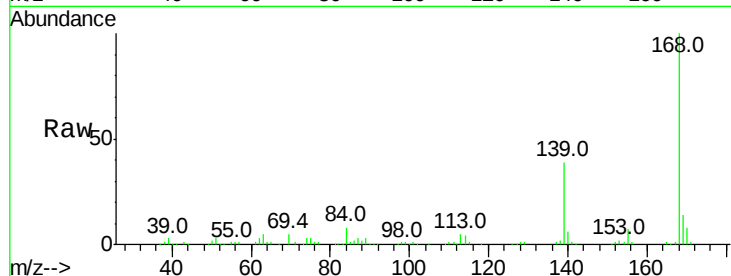




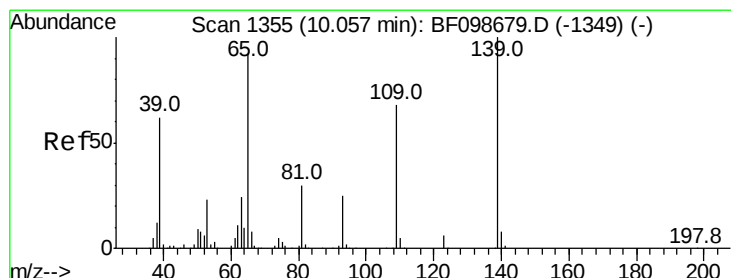
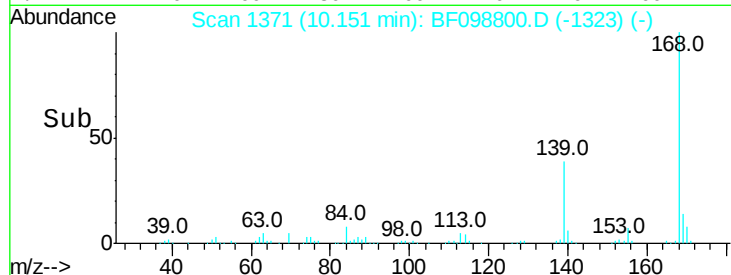
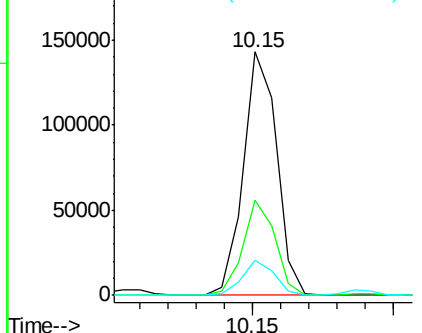
#54
Dibenzenofuran
Concen: 4.583 ng
RT: 10.15 min Scan# 1371
Delta R.T. -0.02 min
Lab File: BF098800.D
Acq: 25 Sep 2017 23:27

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
168	100		
139	39.0	30.1	45.1
169	14.2	10.9	16.3

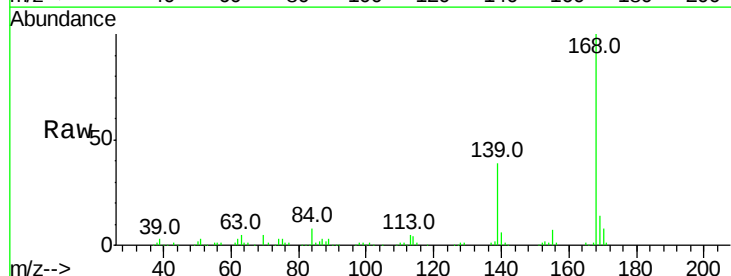


Abundance Ion 168.00 (167.70 to 168.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 169.00 (168.70 to 169.70): E

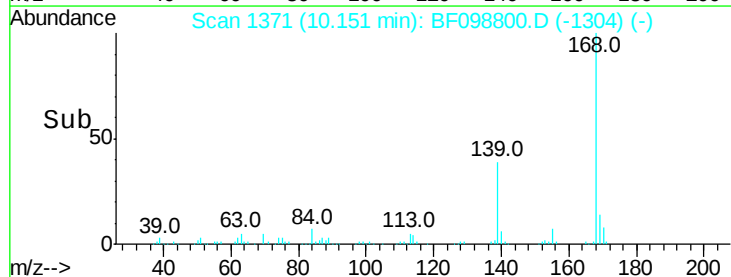
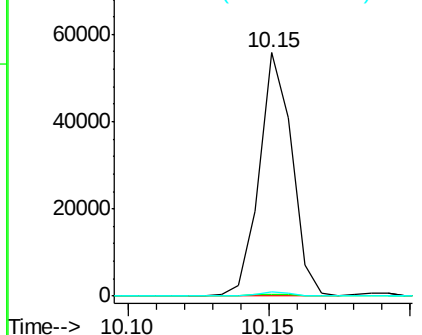


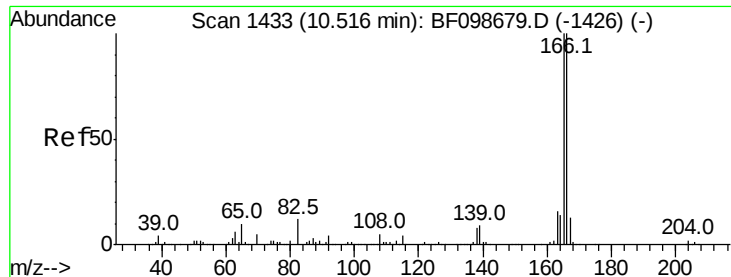
#55
4-Nitrophenol
Concen: 8.929 ng
RT: 10.15 min Scan# 1371
Delta R.T. 0.09 min
Lab File: BF098800.D
Acq: 25 Sep 2017 23:27

Tgt Ion	Ratio	Lower	Upper
139	100		
109	0.9	48.4	88.4#
65	1.5	72.6	112.6#



Abundance Ion 139.00 (138.70 to 139.70): E
Ion 109.00 (108.70 to 109.70): E
Ion 65.00 (64.70 to 65.70): BF0

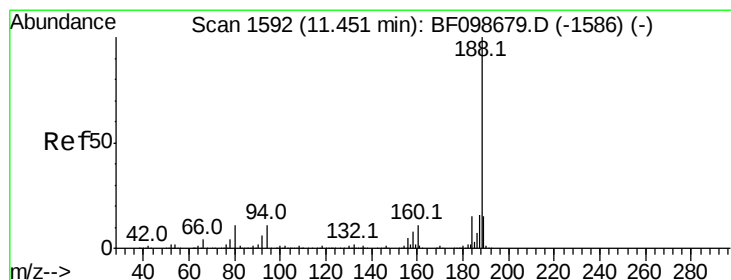
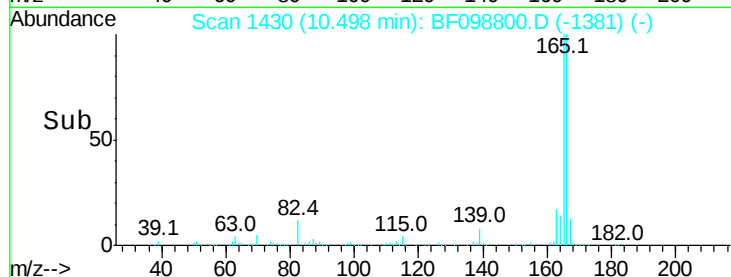
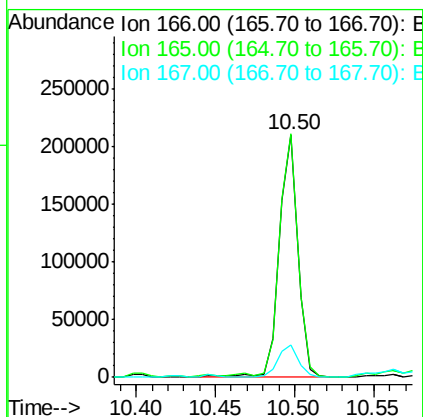
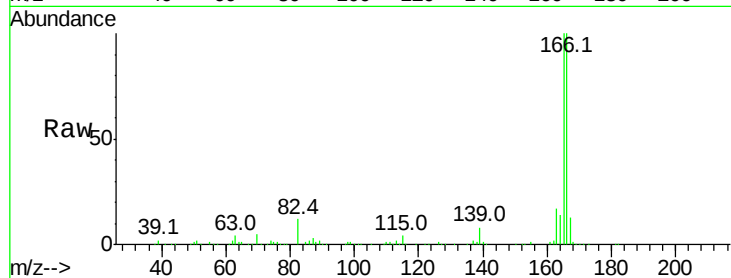




#57
 Fluorene
 Concen: 8.357 ng
 RT: 10.50 min Scan# 1430
 Delta R.T. -0.01 min
 Lab File: BF098800.D
 Acq: 25 Sep 2017 23:27

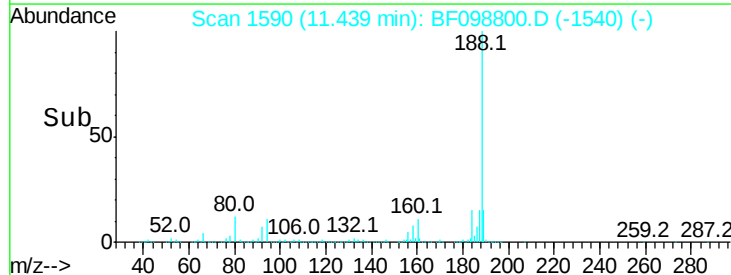
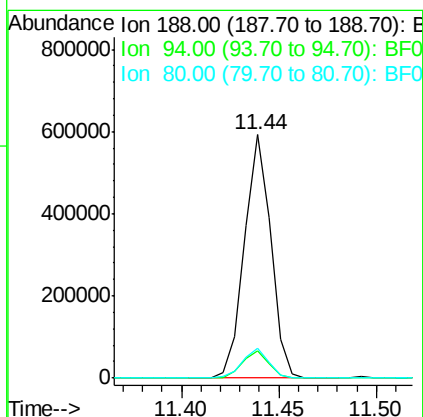
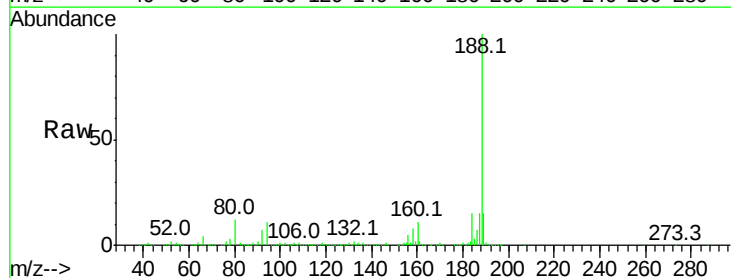
Instrument :
 BNA_F
 ClientSampleId :

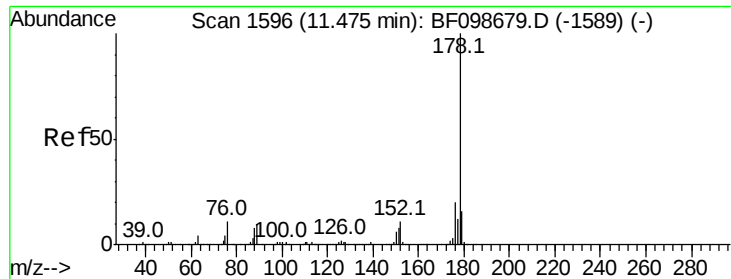
Tot Ion:166 Resp: 172362
 Ion Ratio Lower Upper
 166 100
 165 100.4 79.8 119.8
 167 13.3 10.6 16.0



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.44 min Scan# 1590
 Delta R.T. -0.01 min
 Lab File: BF098800.D
 Acq: 25 Sep 2017 23:27

Tgt Ion:188 Resp: 555585
 Ion Ratio Lower Upper
 188 100
 94 11.2 8.5 12.7
 80 12.5 9.2 13.8





#70

Phenanthrene

Concen: 48.071 ng

RT: 11.47 min Scan# 1595

Delta R.T. -0.01 min

Lab File: BF098800.D

Acq: 25 Sep 2017 23:27

Instrument :

BNA_F

ClientSampleId :

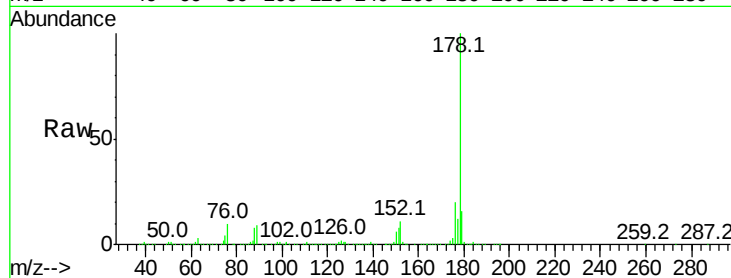
Tot Ion:178 Resp: 1429588

Ion Ratio Lower Upper

178 100

176 20.2 15.8 23.8

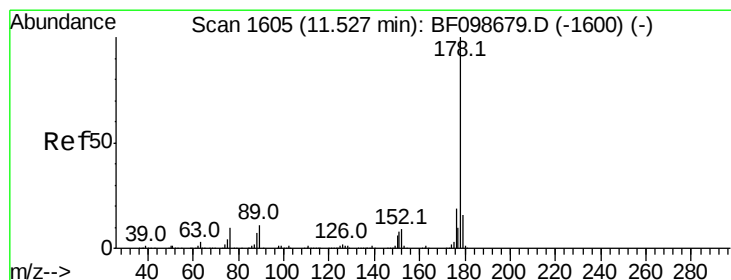
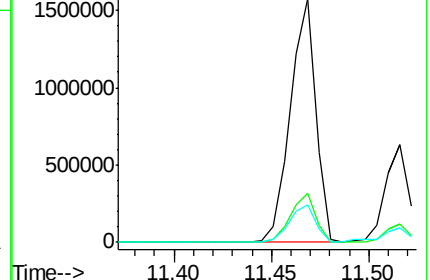
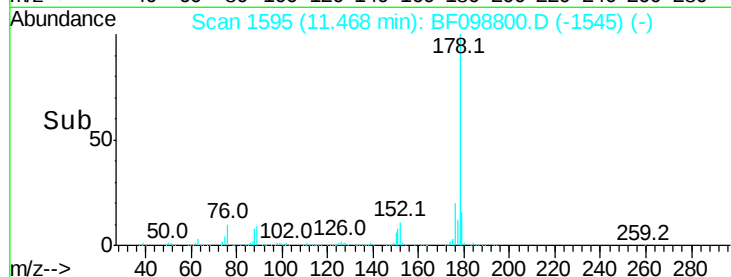
179 15.7 13.0 19.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 16.634 ng

RT: 11.52 min Scan# 1603

Delta R.T. -0.01 min

Lab File: BF098800.D

Acq: 25 Sep 2017 23:27

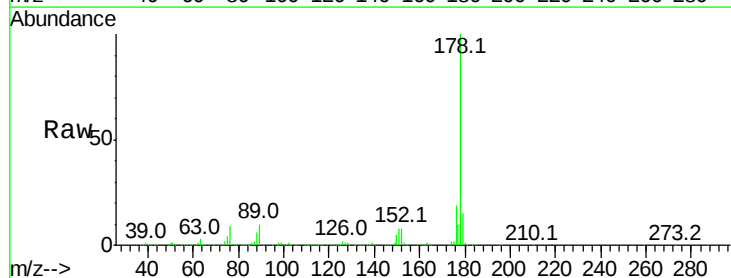
Tgt Ion:178 Resp: 506160

Ion Ratio Lower Upper

178 100

176 18.7 15.4 23.2

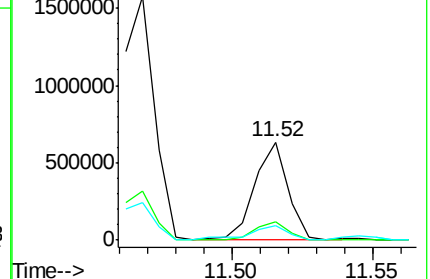
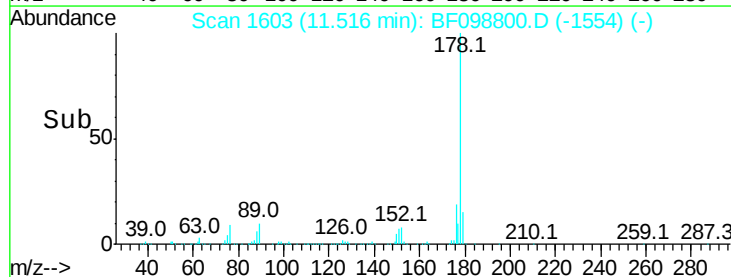
179 15.4 12.6 19.0

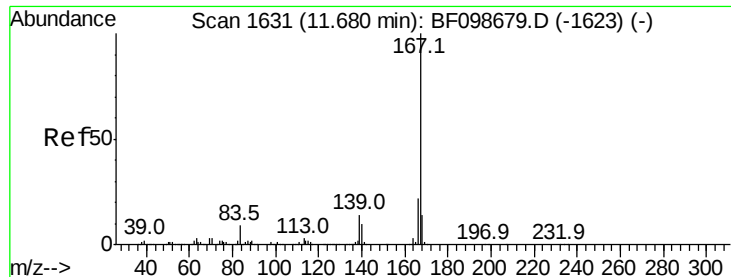


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 4.212 ng

RT: 11.66 min Scan# 1628

Delta R.T. -0.01 min

Lab File: BF098800.D

Acq: 25 Sep 2017 23:27

Instrument :

BNA_F

ClientSampleId :

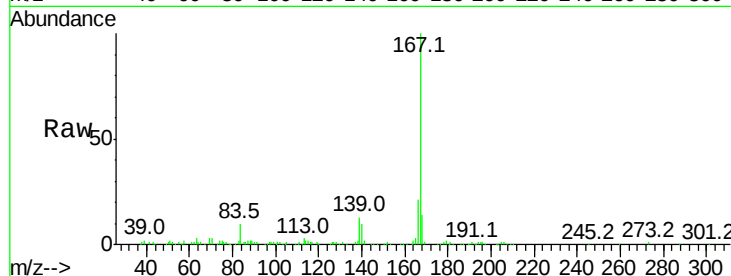
Tot Ion:167 Resp: 125500

Ion Ratio Lower Upper

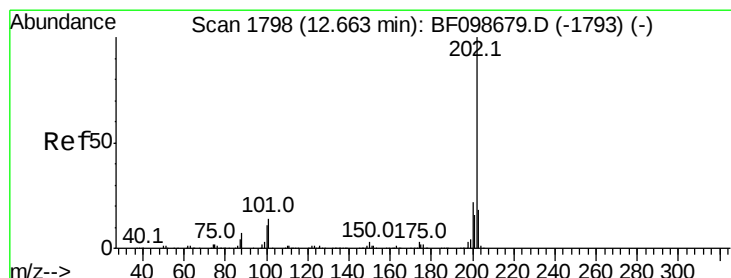
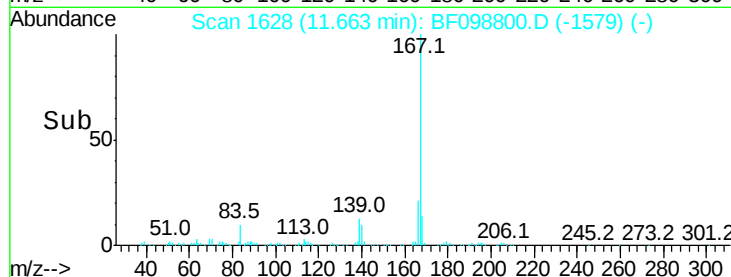
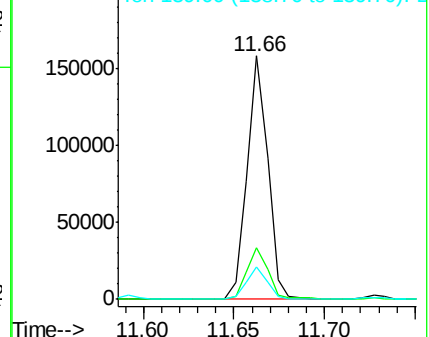
167 100

166 21.2 17.6 26.4

139 13.1 10.9 16.3



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: 65.382 ng

RT: 12.66 min Scan# 1798

Delta R.T. -0.00 min

Lab File: BF098800.D

Acq: 25 Sep 2017 23:27

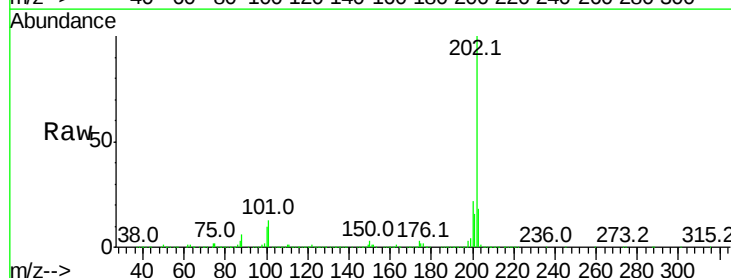
Tgt Ion:202 Resp: 1968900

Ion Ratio Lower Upper

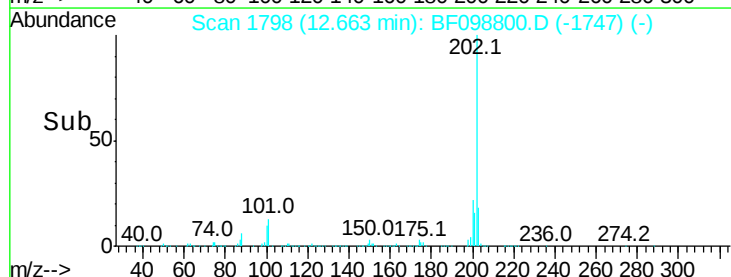
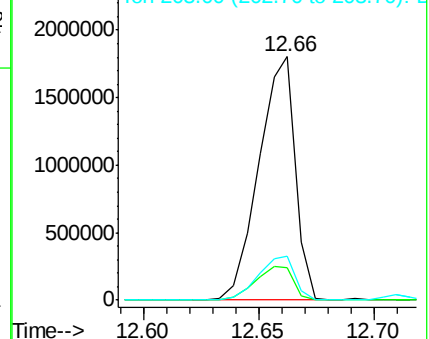
202 100

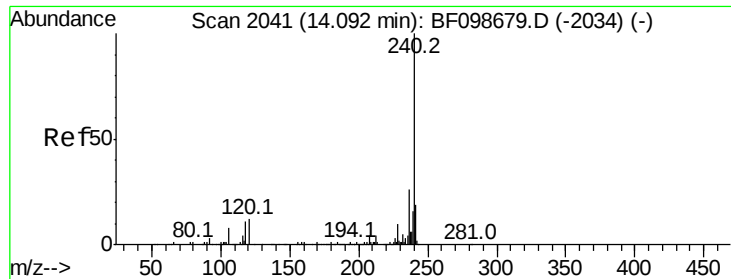
101 13.4 0.0 34.1

203 18.2 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.08 min Scan# 2039

Delta R.T. -0.01 min

Lab File: BF098800.D

Acq: 25 Sep 2017 23:27

Instrument :

BNA_F

ClientSampleId :

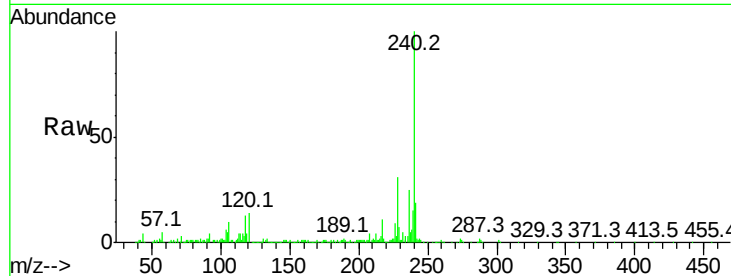
Tot Ion:240 Resp: 338654

Ion Ratio Lower Upper

240 100

120 14.4 9.5 14.3#

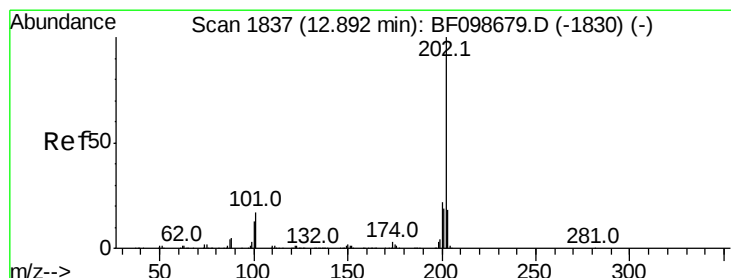
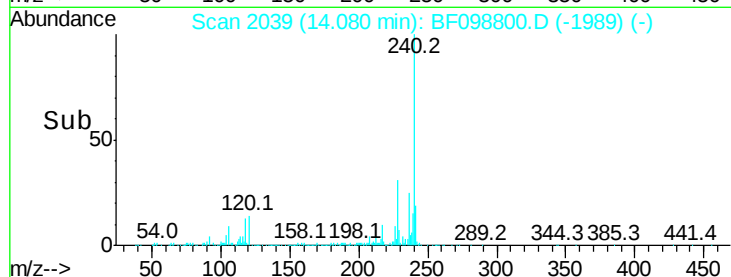
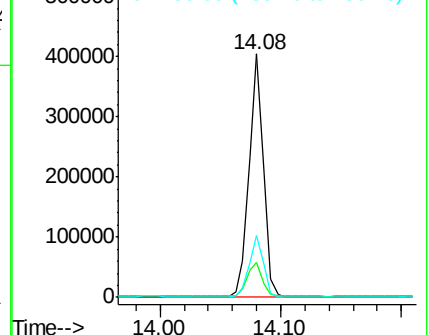
236 25.3 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 64.769 ng

RT: 12.89 min Scan# 1837

Delta R.T. -0.00 min

Lab File: BF098800.D

Acq: 25 Sep 2017 23:27

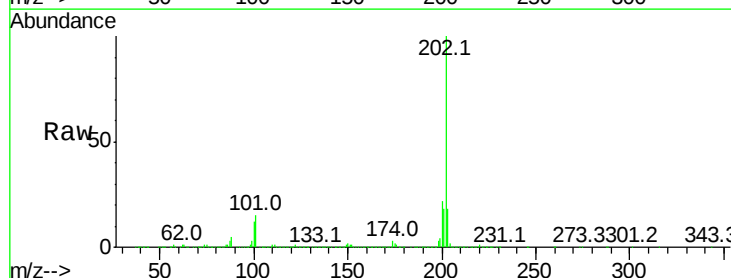
Tgt Ion:202 Resp: 1672560

Ion Ratio Lower Upper

202 100

200 21.9 17.4 26.2

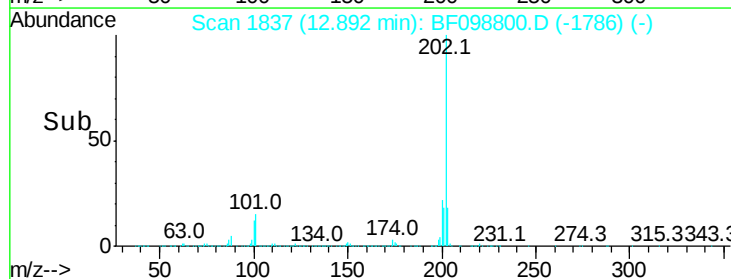
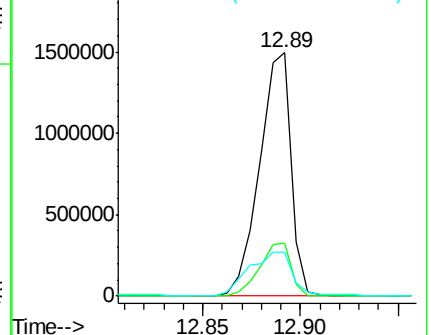
203 18.2 14.3 21.5

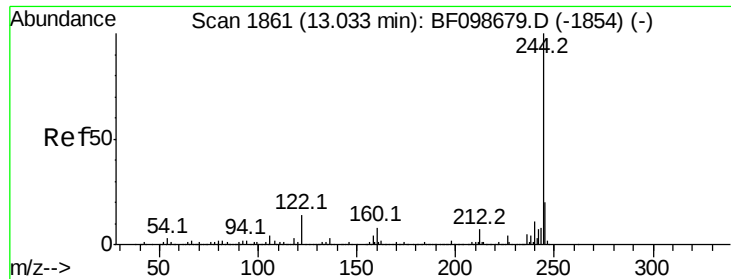


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 2.458 ng

RT: 13.02 min Scan# 1858

Delta R.T. -0.02 min

Lab File: BF098800.D

Acq: 25 Sep 2017 23:27

Instrument :

BNA_F

ClientSampleId :

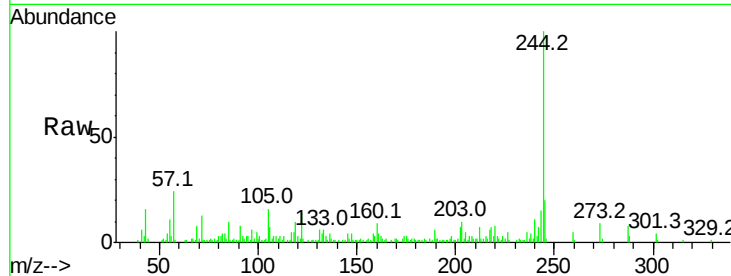
Tot Ion:244 Resp: 36609

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

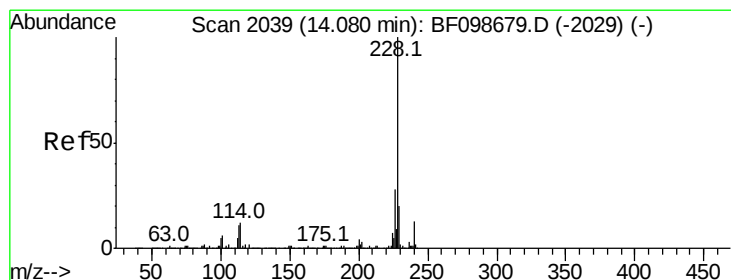
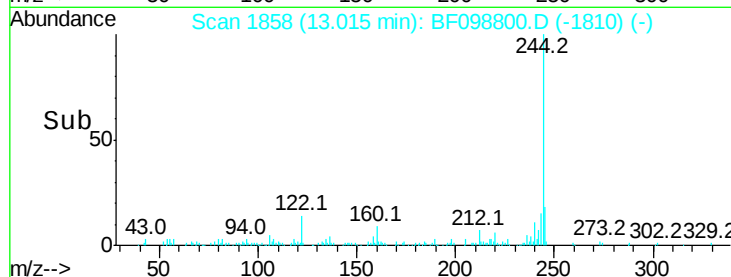
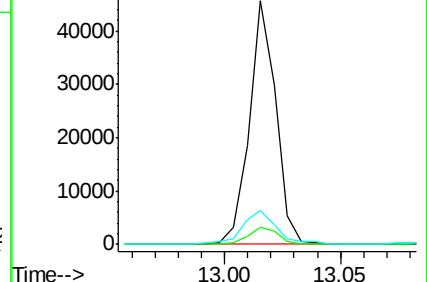
122 13.7 11.0 16.4



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 33.844 ng

RT: 14.07 min Scan# 2037

Delta R.T. -0.01 min

Lab File: BF098800.D

Acq: 25 Sep 2017 23:27

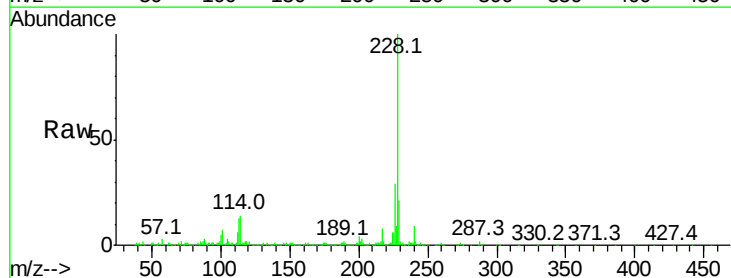
Tgt Ion:228 Resp: 694010

Ion Ratio Lower Upper

228 100

226 29.3 22.6 33.8

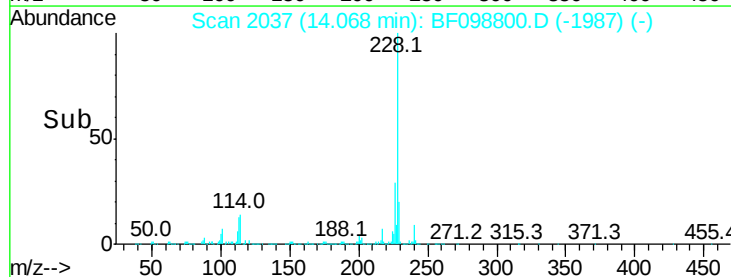
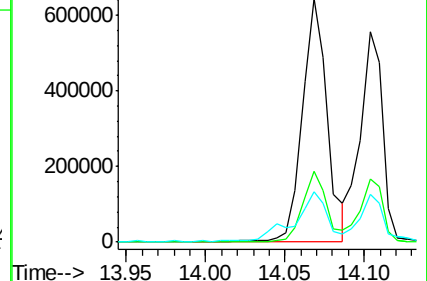
229 20.6 15.8 23.6

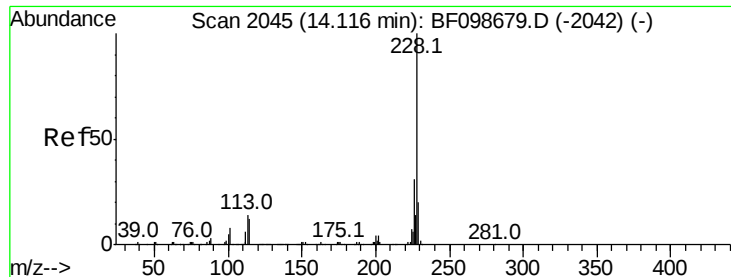


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 28.211 ng

RT: 14.10 min Scan# 2043

Delta R.T. -0.01 min

Lab File: BF098800.D

Acq: 25 Sep 2017 23:27

Instrument :

BNA_F

ClientSampleId :

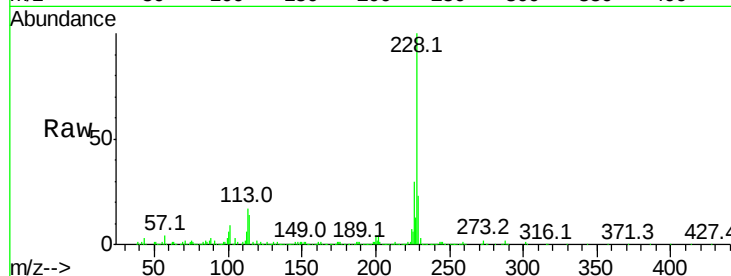
Tot Ion:228 Resp: 550768

Ion Ratio Lower Upper

228 100

226 30.1 25.0 37.6

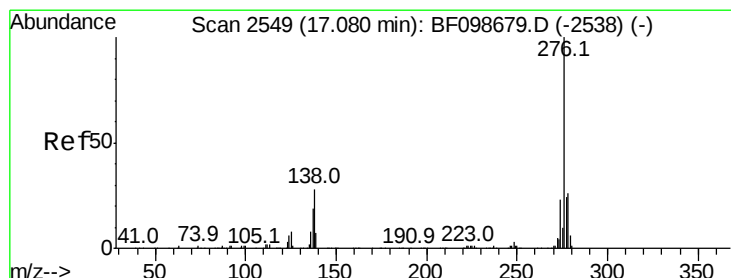
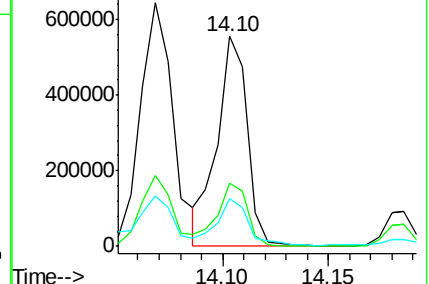
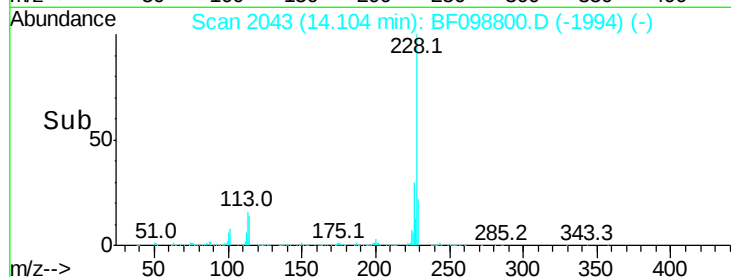
229 22.5 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 18.077 ng

RT: 17.07 min Scan# 2547

Delta R.T. -0.02 min

Lab File: BF098800.D

Acq: 25 Sep 2017 23:27

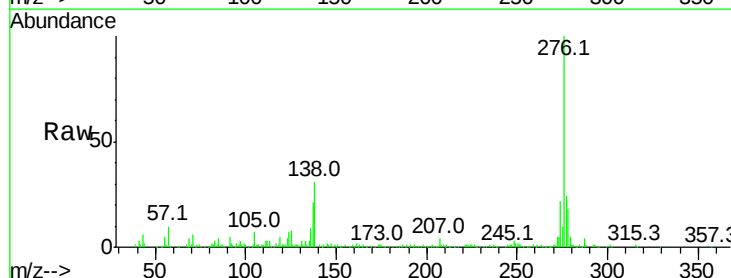
Tgt Ion:276 Resp: 282306

Ion Ratio Lower Upper

276 100

138 29.0 25.0 37.6

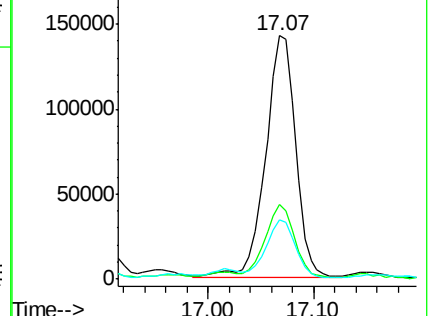
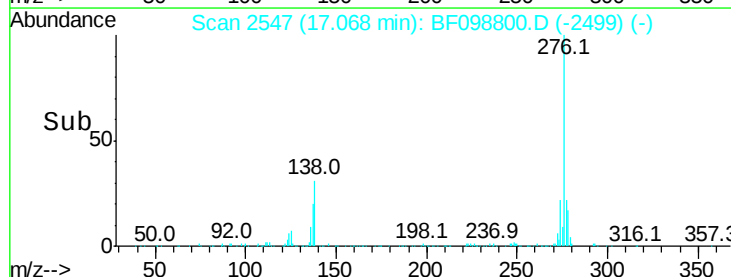
277 23.1 20.1 30.1

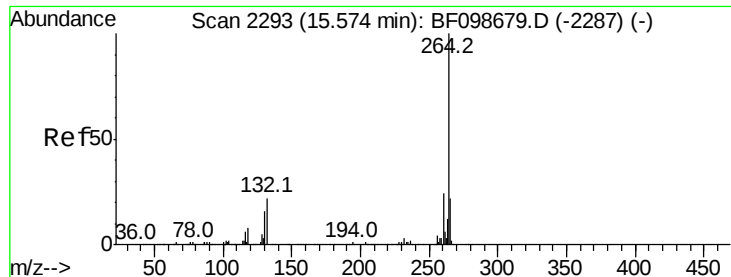


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

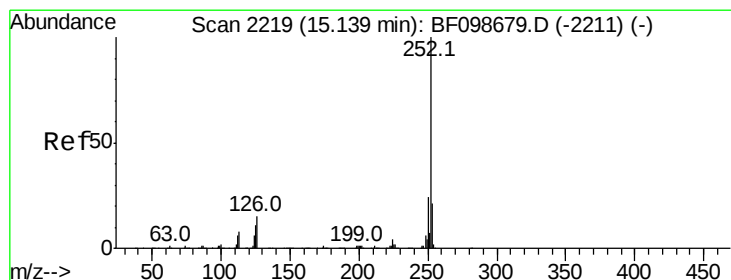
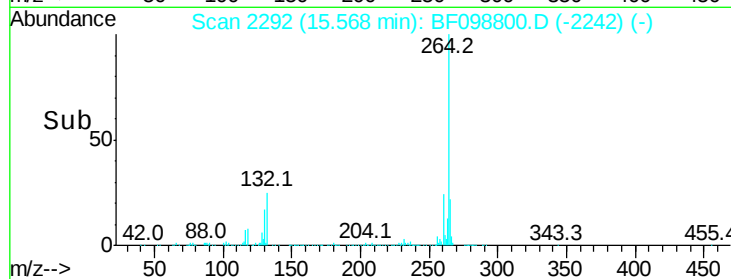
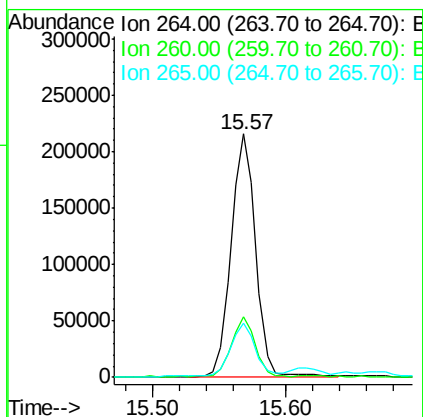
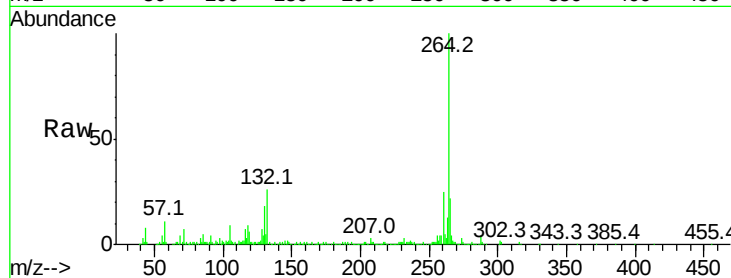




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.57 min Scan# 2292
Delta R.T. -0.01 min
Lab File: BF098800.D
Acq: 25 Sep 2017 23:27

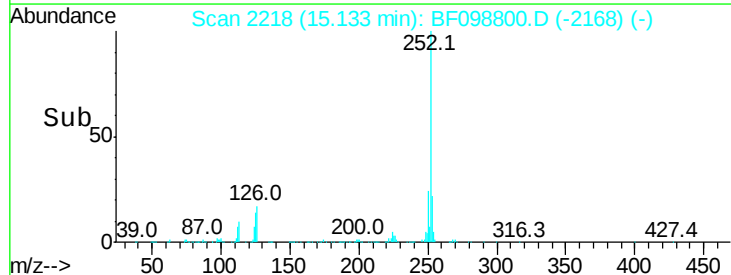
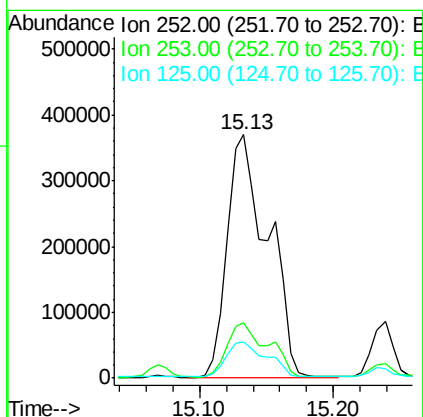
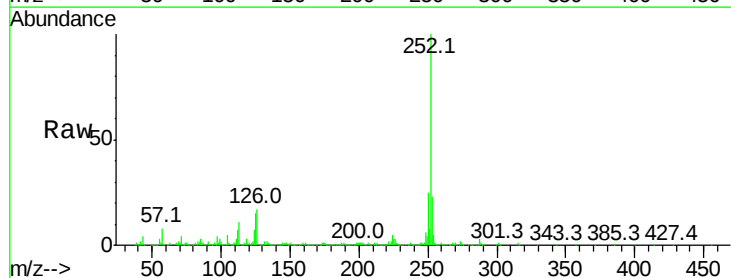
Instrument :
BNA_F
ClientSampleId :

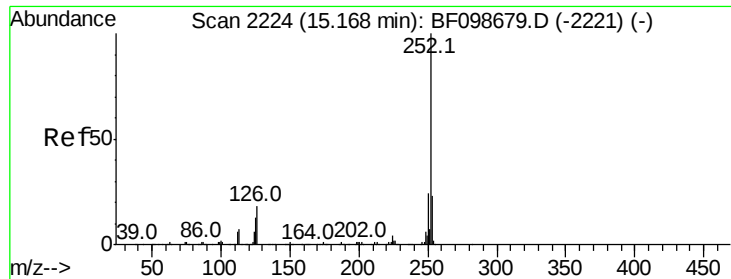
Tot Ion	Ratio	Lower	Upper
264	100		
260	24.9	19.2	28.8
265	22.0	17.5	26.3



#87
Benzo(b)fluoranthene
Concen: 46.286 ng
RT: 15.13 min Scan# 2218
Delta R.T. -0.01 min
Lab File: BF098800.D
Acq: 25 Sep 2017 23:27

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.0	25.6
125	14.9	9.0	13.6





#88

Benzo(k)fluoranthene

Concen: 46.862 ng

RT: 15.13 min Scan# 2218

Delta R.T. -0.04 min

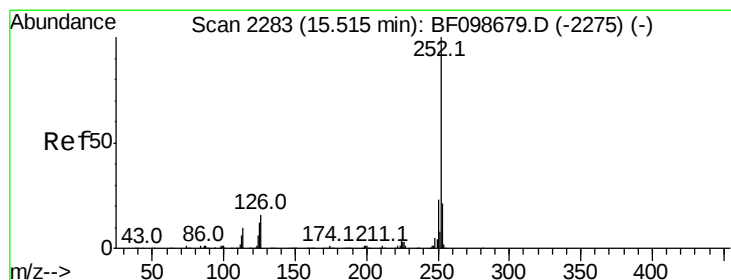
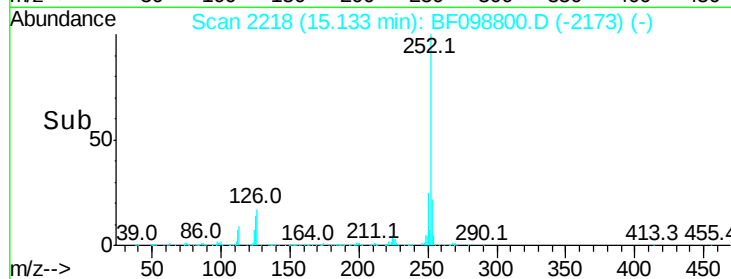
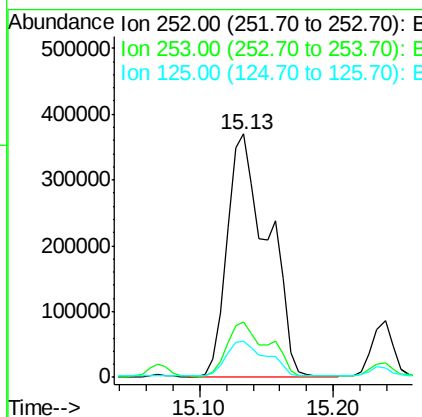
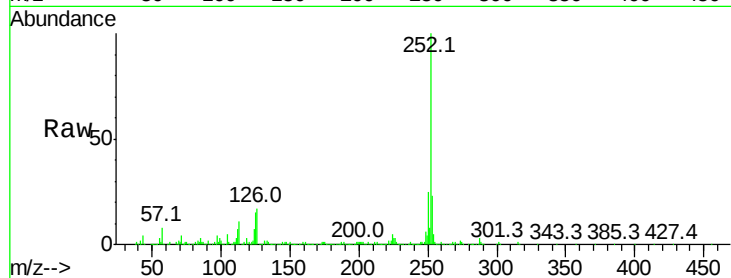
Lab File: BF098800.D

Acq: 25 Sep 2017 23:27

Instrument :
BNA_F
ClientSampleId :

Tot Ion:252 Resp: 786785

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.9	26.9
125	14.9	10.2	15.2



#89

Benzo(a)pyrene

Concen: 26.713 ng

RT: 15.50 min Scan# 2281

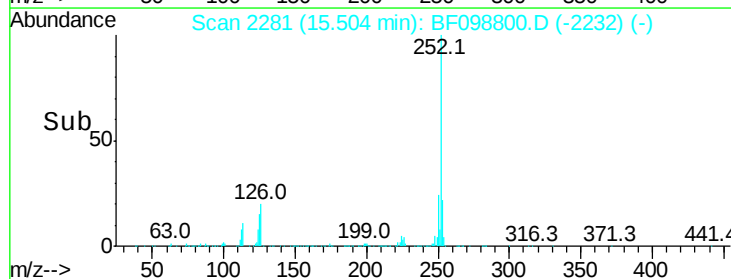
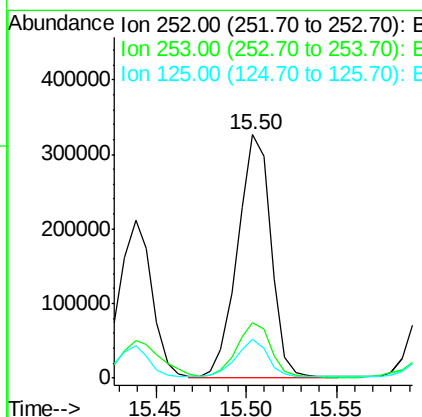
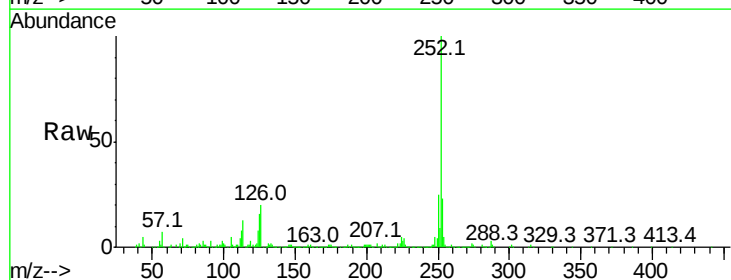
Delta R.T. -0.01 min

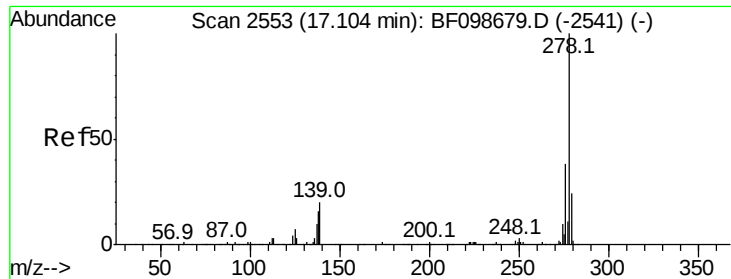
Lab File: BF098800.D

Acq: 25 Sep 2017 23:27

Tgt Ion:252 Resp: 416802

Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.1	25.7
125	15.8	9.8	14.6





#90

Dibenzo(a,h)anthracene

Concen: 5.241 ng

RT: 17.08 min Scan# 2549

Delta R.T. -0.02 min

Lab File: BF098800.D

Acq: 25 Sep 2017 23:27

Instrument :

BNA_F

ClientSampleId :

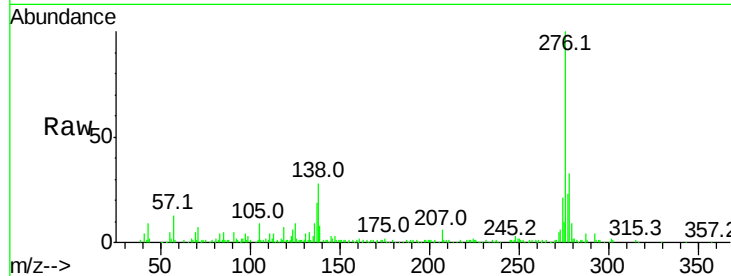
Tot Ion:278 Resp: 65450

Ion Ratio Lower Upper

278 100

139 23.1 15.9 23.9

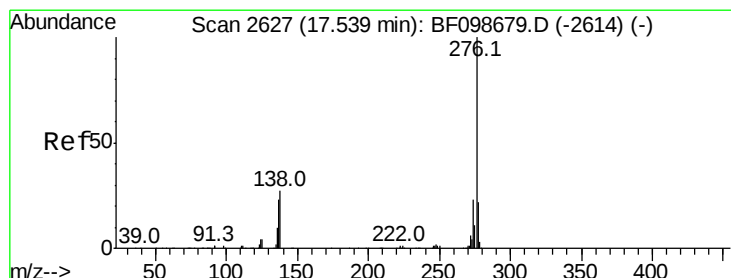
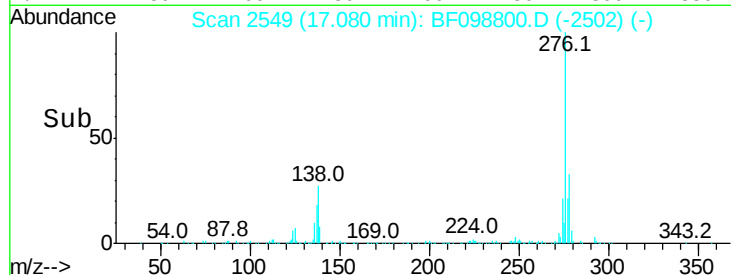
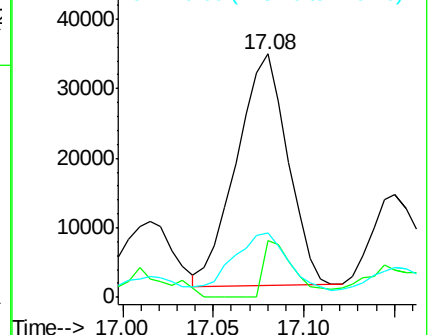
279 26.2 19.0 28.4



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: 21.278 ng

RT: 17.53 min Scan# 2625

Delta R.T. -0.02 min

Lab File: BF098800.D

Acq: 25 Sep 2017 23:27

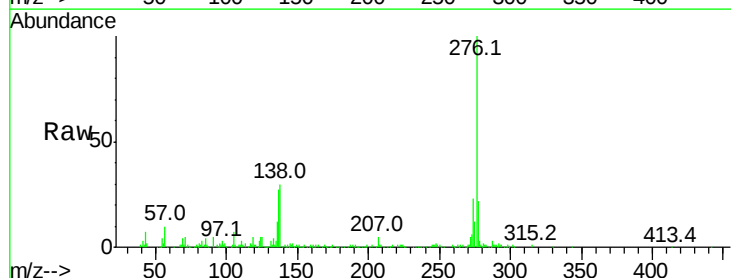
Tgt Ion:276 Resp: 262635

Ion Ratio Lower Upper

276 100

277 22.4 17.9 26.9

138 30.2 21.8 32.8



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

