

Data Path : Z:\HPCHEM1\BNA F\DATA\BF020817\
 Data File : BF092880.D
 Acq On : 9 Feb 2017 11:16
 Operator : SJ/MA
 Sample : I1728-01DL 20X
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :

Quant Time: Feb 09 12:31:19 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF013017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 30 14:50:05 2017
 Response via : Initial Calibration

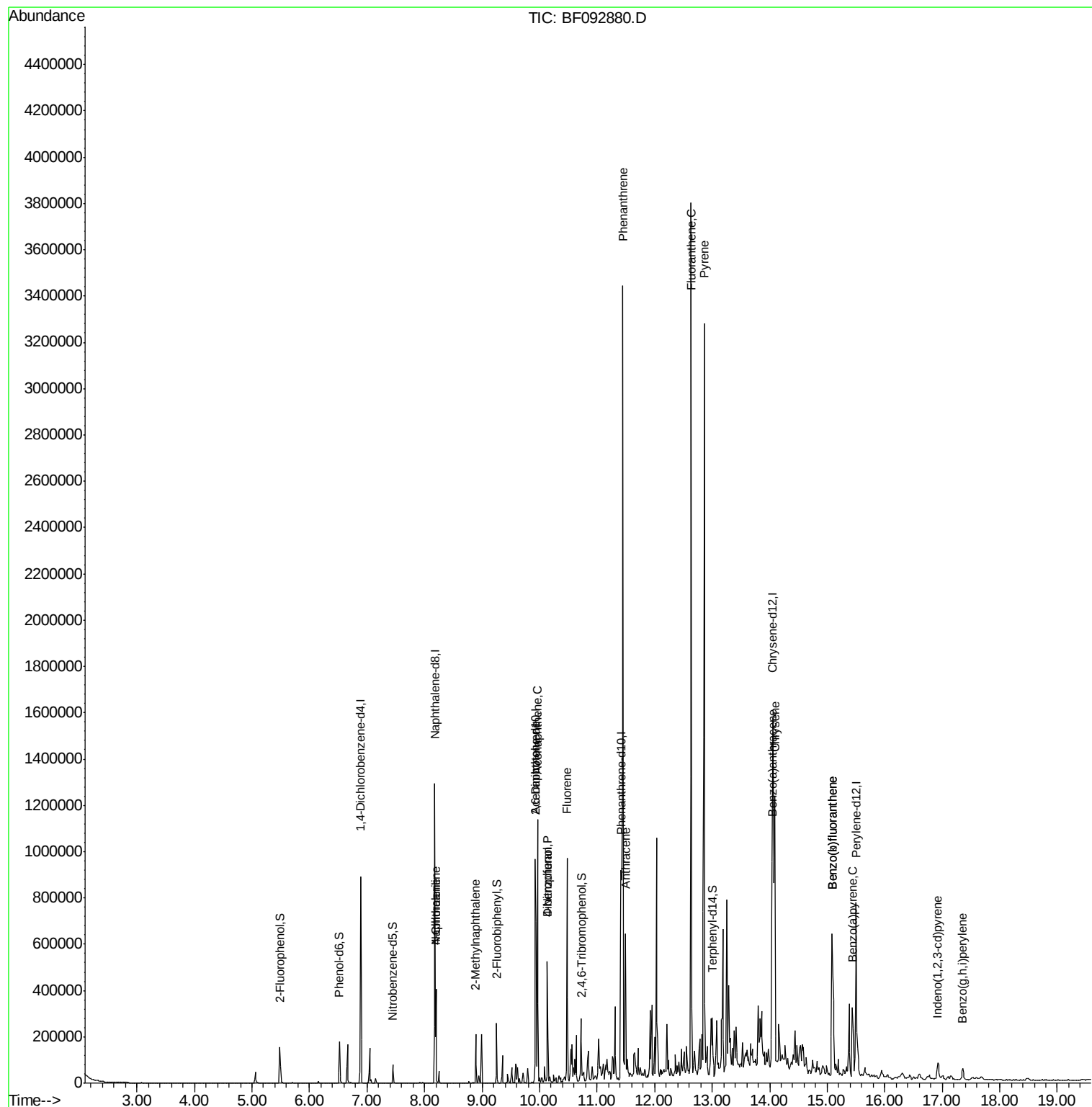
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	130174	20.00	ng	-0.08
21) Naphthalene-d8	8.18	136	548393	20.00	ng	-0.08
38) Acenaphthene-d10	9.93	164	280336	20.00	ng	-0.08
63) Phenanthrene-d10	11.42	188	491330	20.00	ng	-0.07
75) Chrysene-d12	14.05	240	400274	20.00	ng	-0.09
86) Perylene-d12	15.51	264	333222	20.00	ng	-0.10
System Monitoring Compounds						
5) 2-Fluorophenol	5.48	112	50310	6.63	ng	-0.09
7) Phenol-d6	6.52	99	64658	6.62	ng	-0.08
23) Nitrobenzene-d5	7.45	82	33587	3.41	ng	-0.09
41) 2,4,6-Tribromophenol	10.73	330	10273	5.07	ng	-0.08
44) 2-Fluorobiphenyl	9.25	172	78165	5.05	ng	-0.08
78) Terphenyl-d14	13.00	244	73616	4.32	ng	-0.08
Target Compounds						Qvalue
31) Naphthalene	8.20	128	194693	7.00	ng	98
33) 4-Chloroaniline	8.20	127	24343	2.23	ng	# 33
37) 2-Methylnaphthalene	8.89	142	64172	3.60	ng	99
50) 2,6-Dinitrotoluene	9.93	165	39106	9.59	ng	# 31
51) Acenaphthene	9.96	154	256370	15.63	ng	98
54) Dibenzofuran	10.13	168	219216	9.99	ng	96
55) 4-Nitrophenol	10.13	139	77742	23.13	ng	# 5
57) Fluorene	10.48	166	288507	17.09	ng	98
70) Phenanthrene	11.45	178	1374168	48.82	ng	99
71) Anthracene	11.49	178	238629	8.44	ng	98
74) Fluoranthene	12.64	202	1549549	53.37	ng	98
77) Pylene	12.87	202	1379975	46.07	ng	99
80) Benzo(a)anthracene	14.04	228	466708	19.06	ng	99
82) Chrysene	14.09	228	525099	22.91	ng	98
85) Indeno(1,2,3-cd)pyrene	16.92	276	49452	2.79	ng	93
87) Benzo(b)fluoranthene	15.08	252	449606	20.50	ng	97
88) Benzo(k)fluoranthene	15.08	252	449606	23.74	ng	96
89) Benzo(a)pyrene	15.44	252	148654	7.84	ng	98
91) Benzo(a,h,i)perylene	17.36	276	40087	2.59	ng	# 91

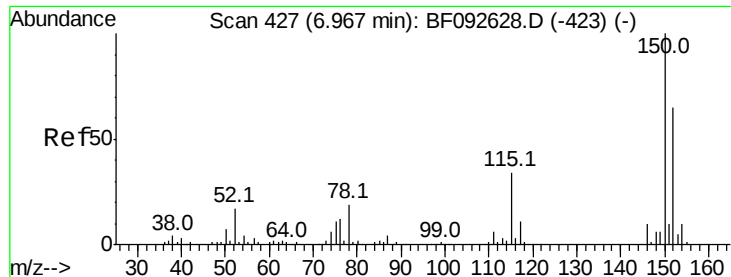
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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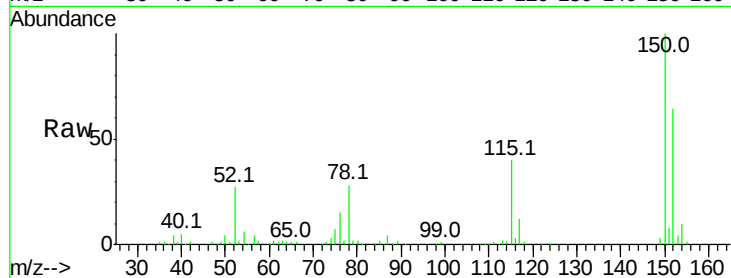


#1

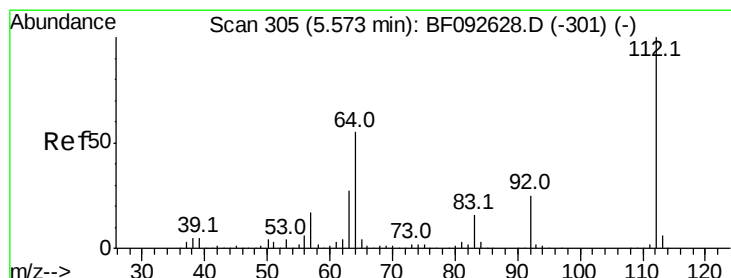
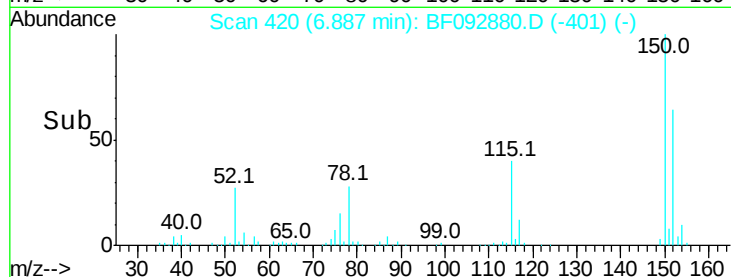
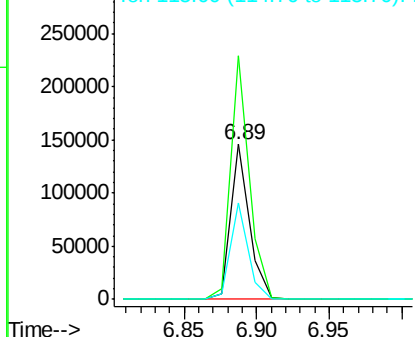
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.89 min Scan# 420
Delta R.T. -0.08 min
Lab File: BF092880.D
Acq: 9 Feb 2017 11:16

Instrument :
BNA_F
ClientSampleId :

Tot Ion:152 Resp: 130174
Ion Ratio Lower Upper
152 100
150 157.0 124.9 187.3
115 62.3 46.0 69.0



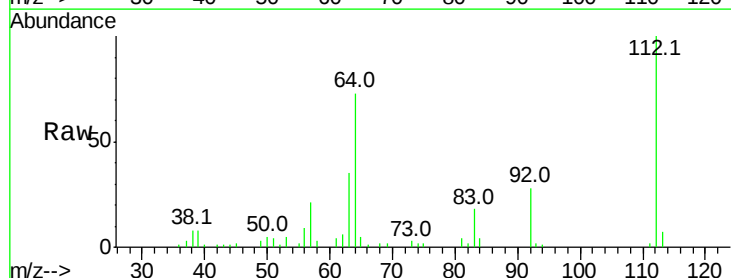
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



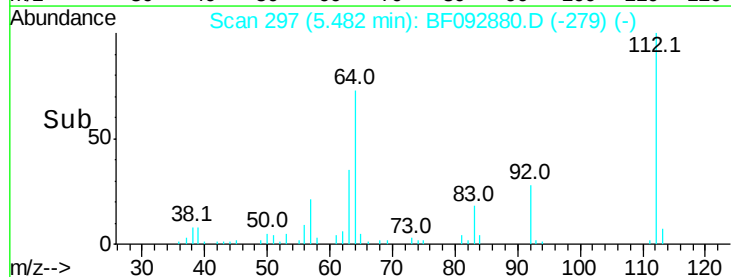
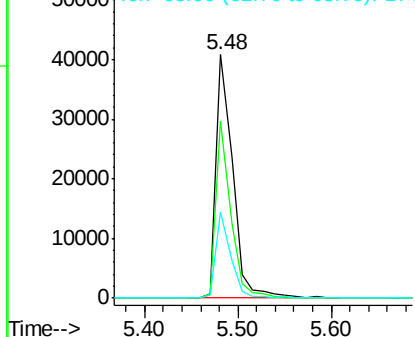
#5

2-Fluorophenol
Concen: 6.63 ng
RT: 5.48 min Scan# 297
Delta R.T. -0.09 min
Lab File: BF092880.D
Acq: 9 Feb 2017 11:16

Tgt Ion:112 Resp: 50310
Ion Ratio Lower Upper
112 100
64 72.8 46.1 69.1#
63 35.3 23.8 35.6



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: 6.62 ng

RT: 6.52 min Scan# 388

Delta R.T. -0.08 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

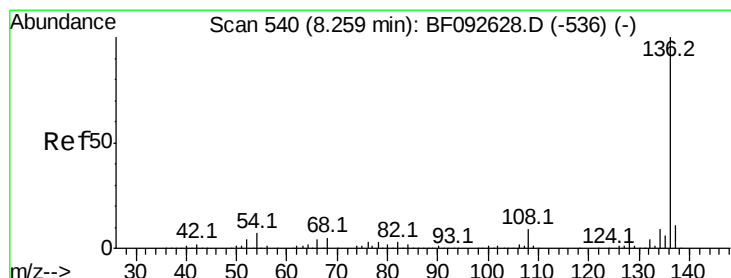
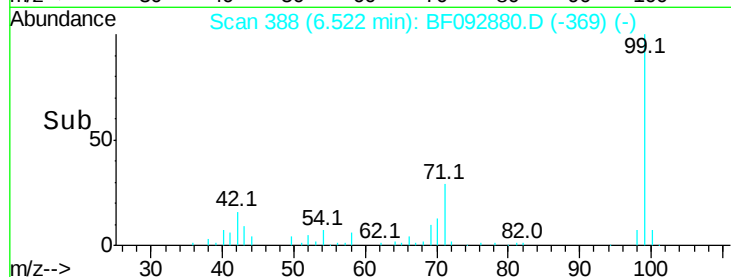
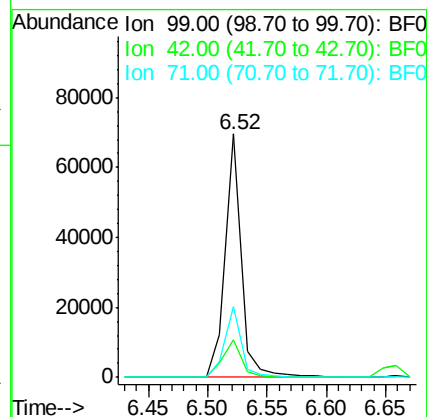
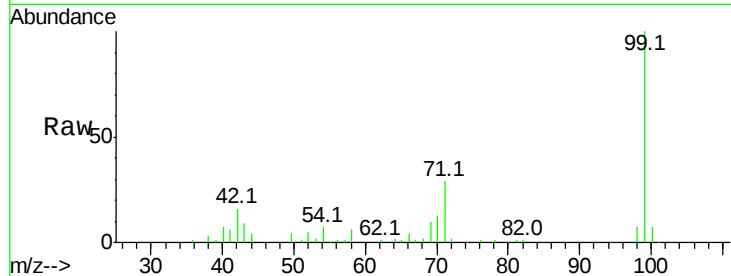
Instrument :

BNA_F

ClientSampleId :

Tot Ion: 99 Resp: 64658

Ion	Ratio	Lower	Upper
99	100		
42	15.5	15.6	23.4#
71	29.2	27.5	41.3



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.18 min Scan# 533

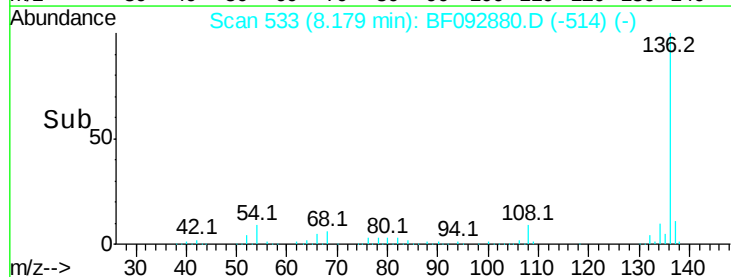
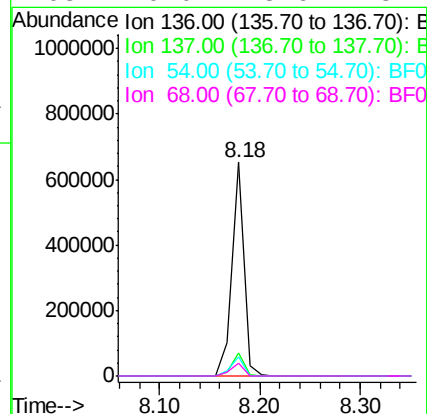
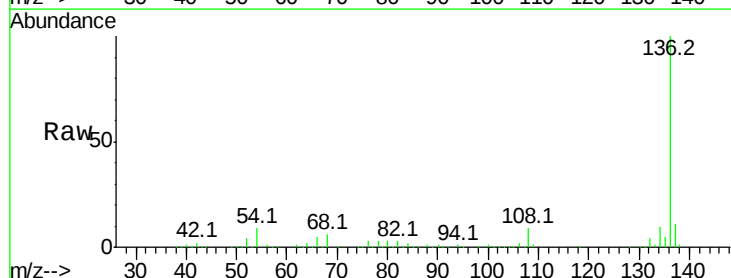
Delta R.T. -0.08 min

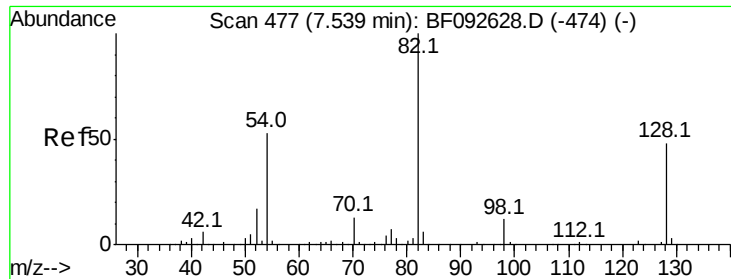
Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

Tgt Ion:136 Resp: 548393

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.4	12.6
54	9.2	4.5	6.7#
68	6.0	3.6	5.4#

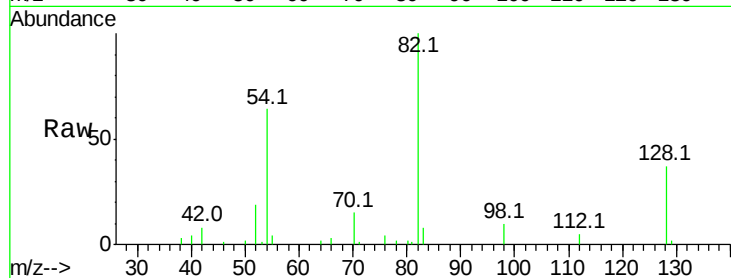




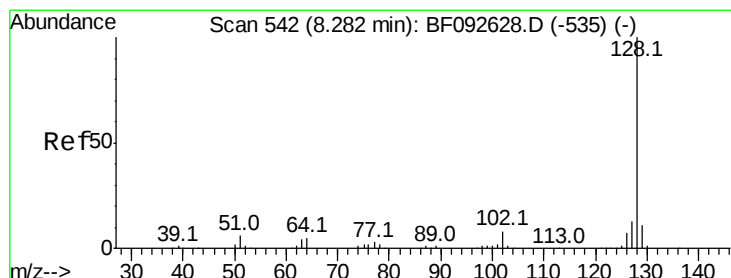
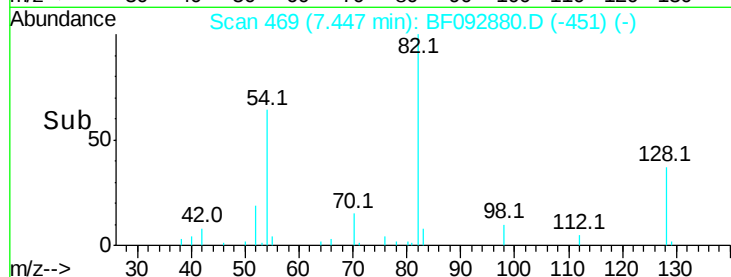
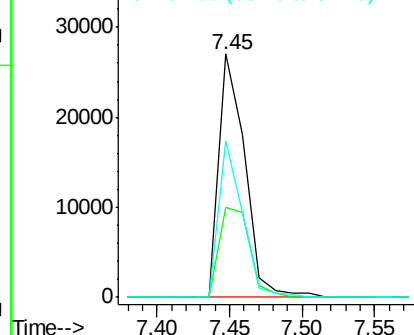
#23
 Nitrobenzene-d5
 Concen: 3.41 ng
 RT: 7.45 min Scan# 469
 Delta R.T. -0.09 min
 Lab File: BF092880.D
 Acq: 9 Feb 2017 11:16

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion: 82 Resp: 33587
 Ion Ratio Lower Upper
 82 100
 128 36.8 34.6 52.0
 54 64.3 39.5 59.3#

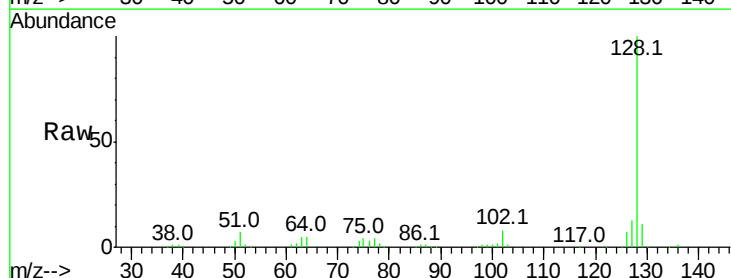


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

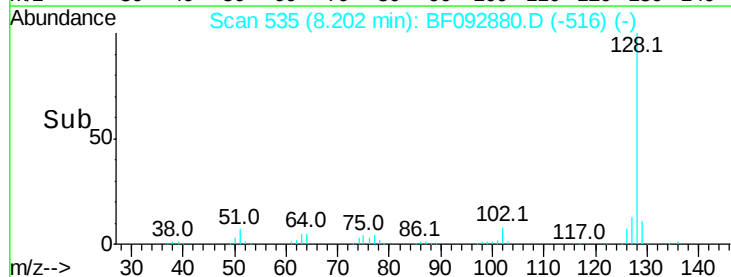
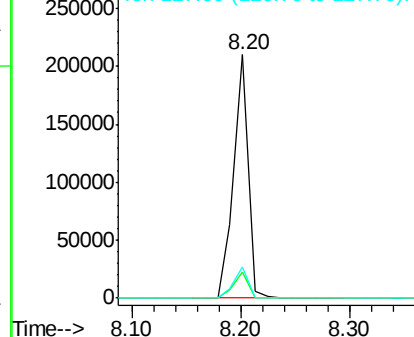


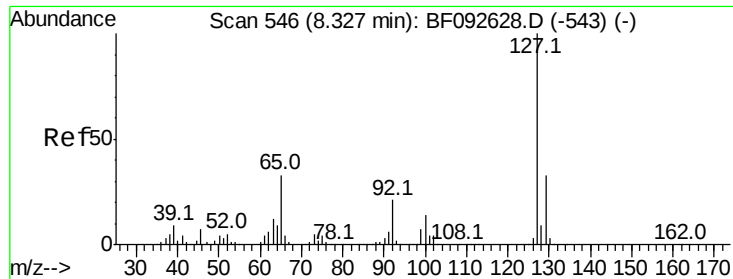
#31
 Naphthalene
 Concen: 7.00 ng
 RT: 8.20 min Scan# 535
 Delta R.T. -0.08 min
 Lab File: BF092880.D
 Acq: 9 Feb 2017 11:16

Tgt Ion:128 Resp: 194693
 Ion Ratio Lower Upper
 128 100
 129 10.8 9.5 14.3
 127 12.8 10.8 16.2



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

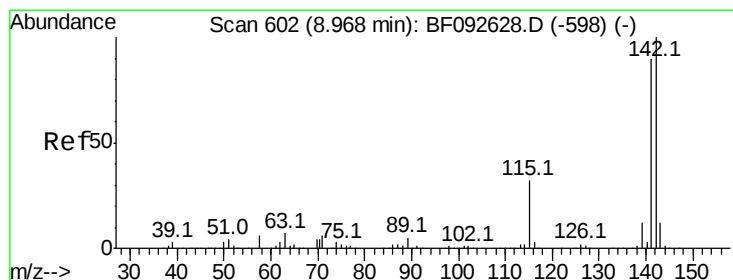
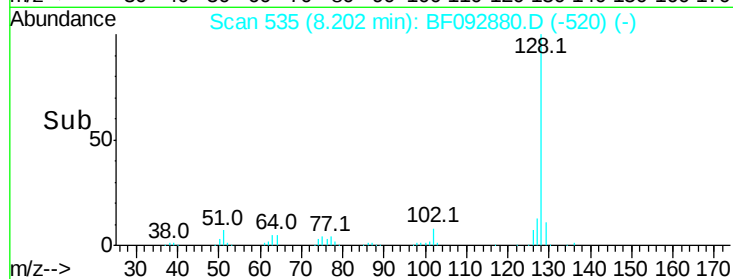
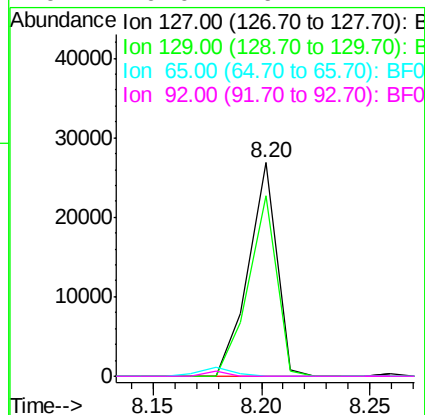
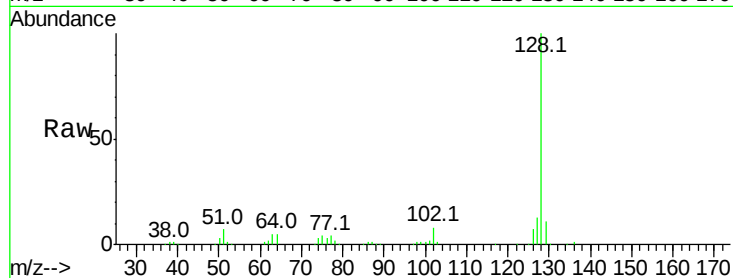




#33
4-Chloroaniline
Concen: 2.23 ng
RT: 8.20 min Scan# 535
Delta R.T. -0.13 min
Lab File: BF092880.D
Acq: 9 Feb 2017 11:16

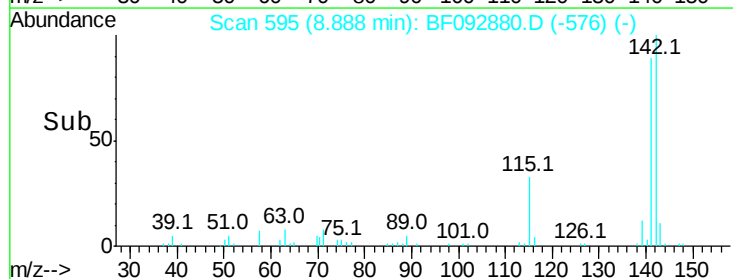
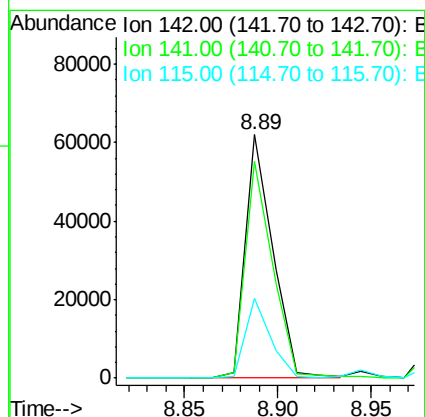
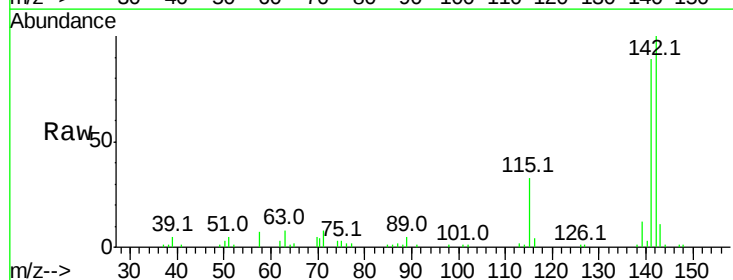
Instrument :
BNA_F
ClientSampleId :

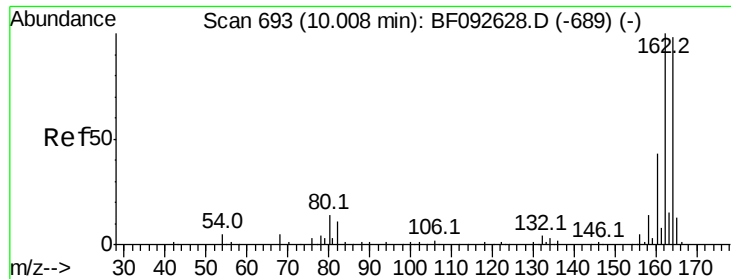
Tot Ion:	127	Resp:	24343
Ion	Ratio	Lower	Upper
127	100		
129	84.4	26.3	39.5#
65	0.0	25.8	38.8#
92	0.0	16.1	24.1#



#37
2-Methylnaphthalene
Concen: 3.60 ng
RT: 8.89 min Scan# 595
Delta R.T. -0.08 min
Lab File: BF092880.D
Acq: 9 Feb 2017 11:16

Tgt Ion:	142	Resp:	64172
Ion	Ratio	Lower	Upper
142	100		
141	89.1	71.0	106.6
115	32.9	28.3	42.5

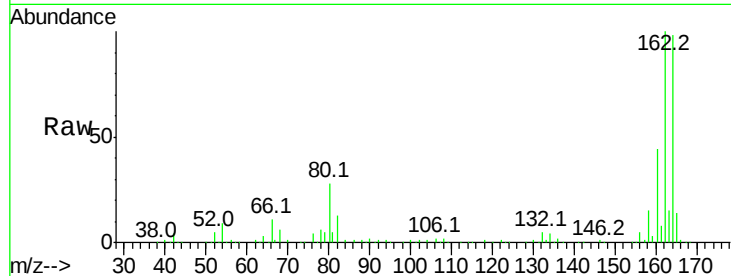




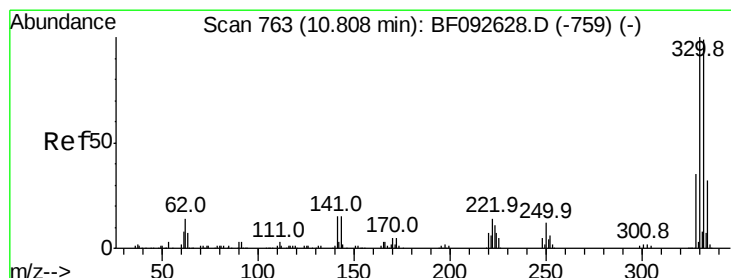
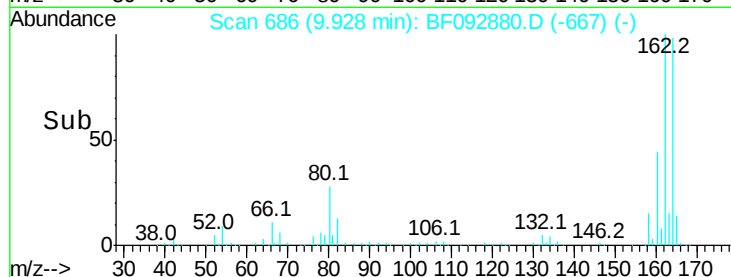
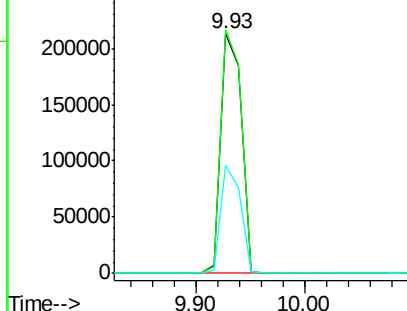
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.93 min Scan# 686
Delta R.T. -0.08 min
Lab File: BF092880.D
Acq: 9 Feb 2017 11:16

Instrument :
BNA_F
ClientSampleId :

Tot Ion:164 Resp: 280336
Ion Ratio Lower Upper
164 100
162 101.6 80.2 120.2
160 44.9 36.9 55.3

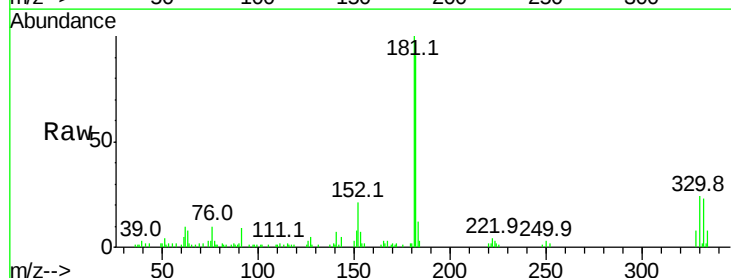


Abundance Ion 164.00 (163.70 to 164.70): E
Ion 162.00 (161.70 to 162.70): E
Ion 160.00 (159.70 to 160.70): E

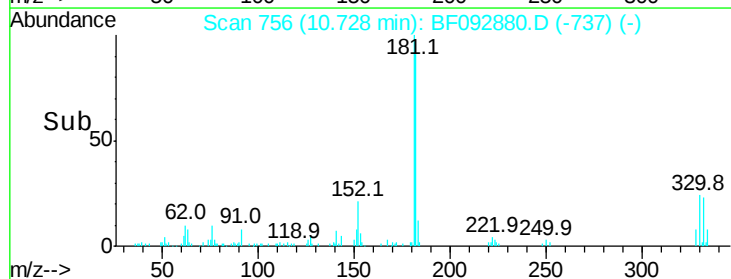
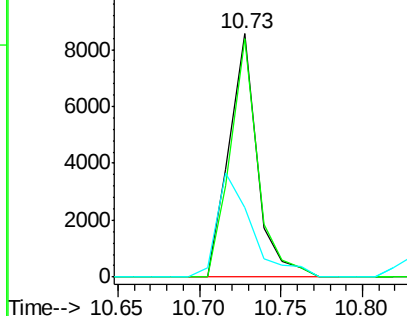


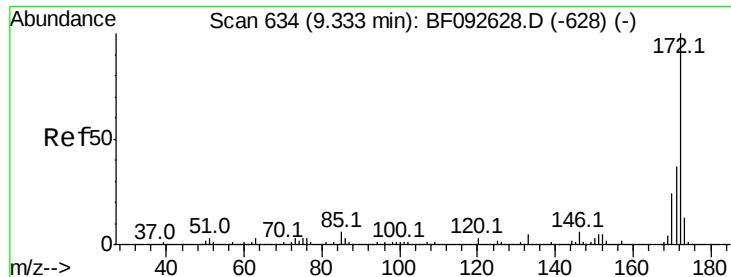
#41
2,4,6-Tribromophenol
Concen: 5.07 ng
RT: 10.73 min Scan# 756
Delta R.T. -0.08 min
Lab File: BF092880.D
Acq: 9 Feb 2017 11:16

Tgt Ion:330 Resp: 10273
Ion Ratio Lower Upper
330 100
332 95.9 77.4 116.2
141 52.3 34.1 51.1#



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

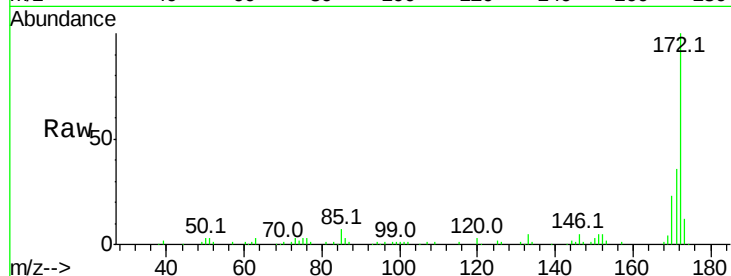




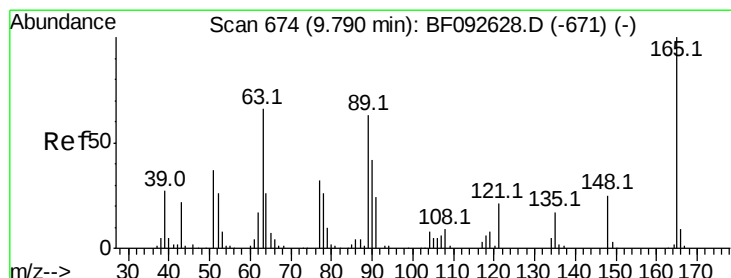
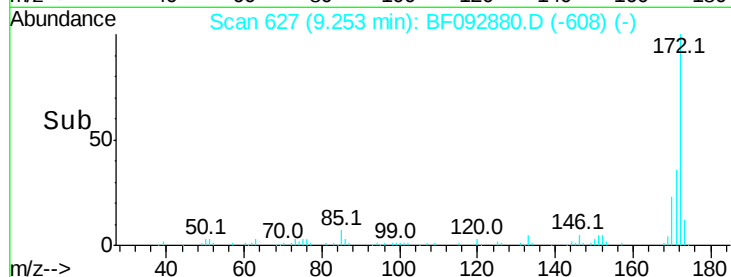
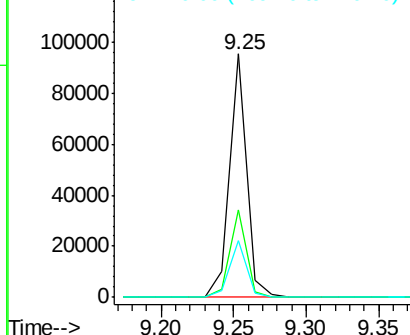
#44
 2-Fluorobiphenyl
 Concen: 5.05 ng
 RT: 9.25 min Scan# 627
 Delta R.T. -0.08 min
 Lab File: BF092880.D
 Acq: 9 Feb 2017 11:16

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.4	44.0
170	23.2	20.2	30.4

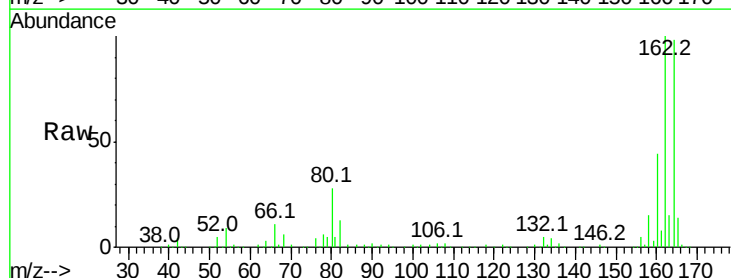


Abundance Ion 172.00 (171.70 to 172.70): E
 Ion 171.00 (170.70 to 171.70): E
 Ion 170.00 (169.70 to 170.70): E

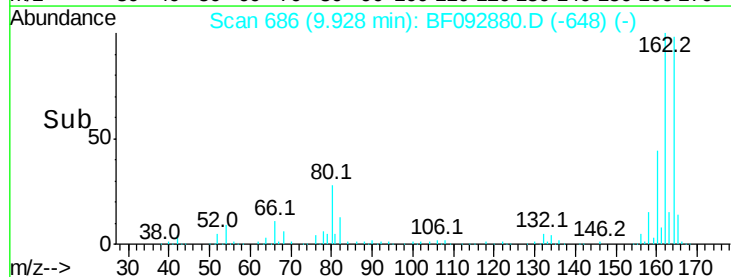
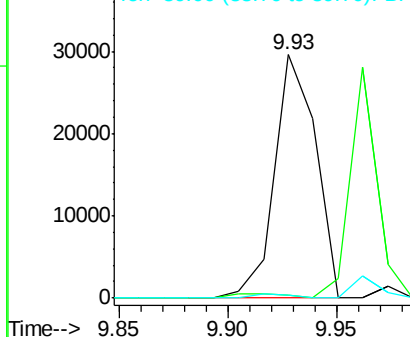


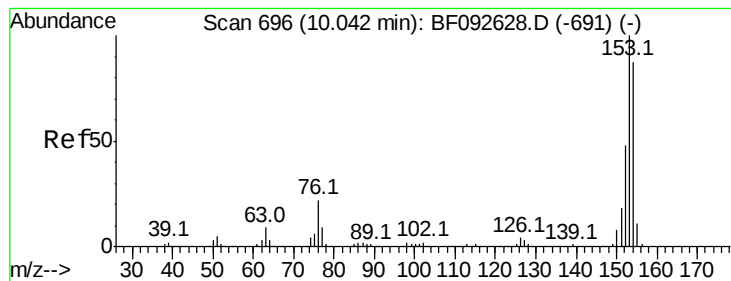
#50
 2,6-Dinitrotoluene
 Concen: 9.59 ng
 RT: 9.93 min Scan# 686
 Delta R.T. 0.14 min
 Lab File: BF092880.D
 Acq: 9 Feb 2017 11:16

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.5	36.2	54.4#
89	1.4	40.2	60.4#



Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0





#51

Acenaphthene

Concen: 15.63 ng

RT: 9.96 min Scan# 689

Delta R.T. -0.08 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

Instrument :

BNA_F

ClientSampleId :

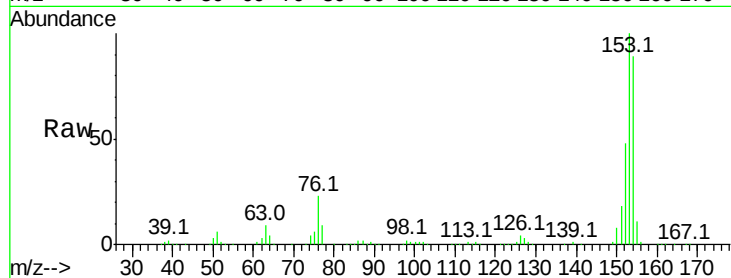
Tot Ion:154 Resp: 256370

Ion Ratio Lower Upper

154 100

153 112.4 88.6 133.0

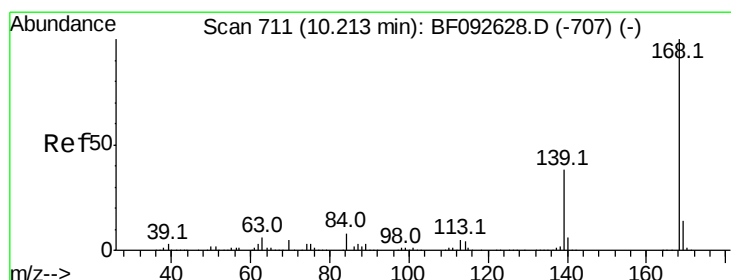
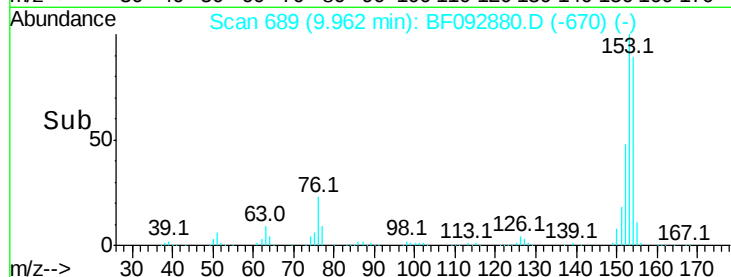
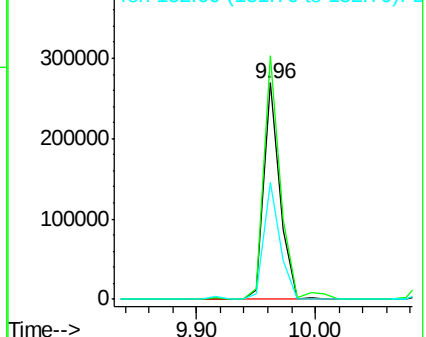
152 54.2 41.6 62.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 9.99 ng

RT: 10.13 min Scan# 704

Delta R.T. -0.08 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

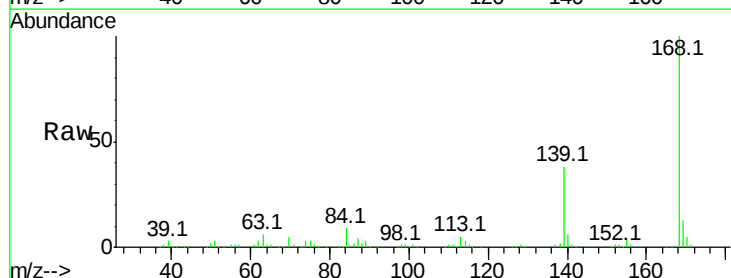
Tgt Ion:168 Resp: 219216

Ion Ratio Lower Upper

168 100

139 37.6 32.6 49.0

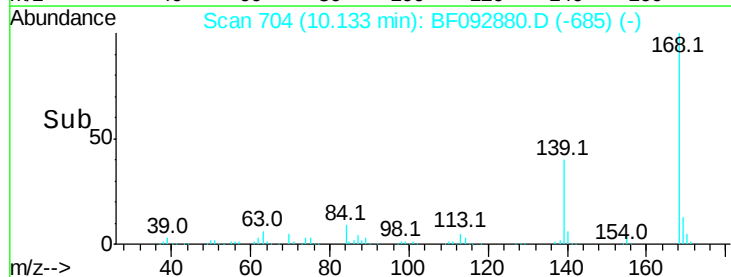
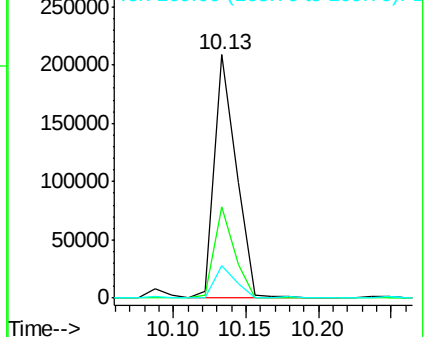
169 13.4 11.3 16.9

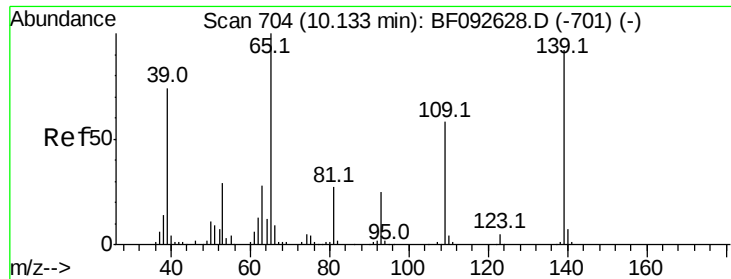


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 23.13 ng

RT: 10.13 min Scan# 704

Delta R.T. 0.00 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

Instrument :

BNA_F

ClientSampleId :

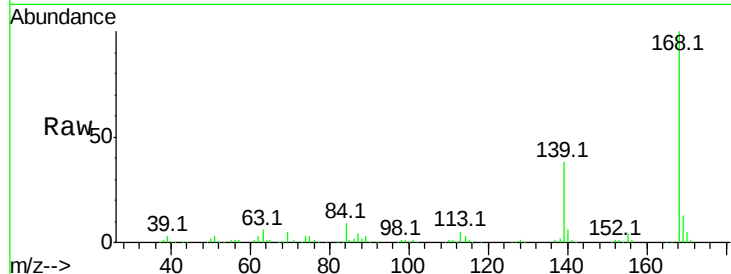
Tot Ion:139 Resp: 77742

Ion Ratio Lower Upper

139 100

109 0.8 52.2 92.2#

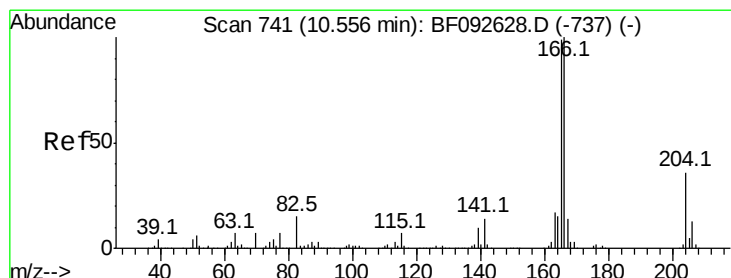
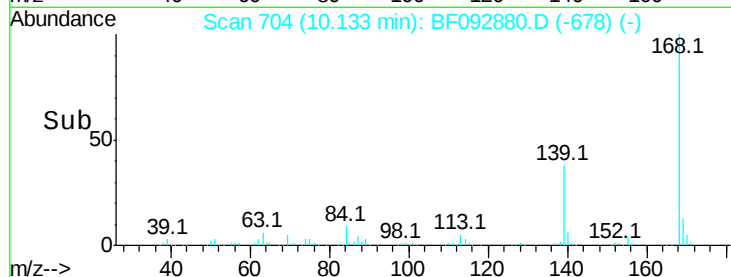
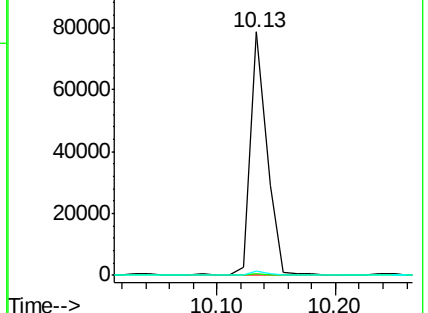
65 1.8 85.8 125.8#



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: 17.09 ng

RT: 10.48 min Scan# 734

Delta R.T. -0.08 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

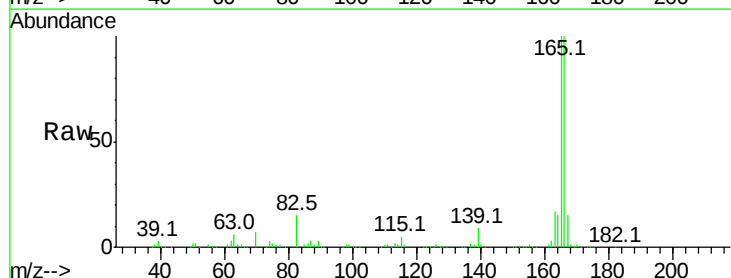
Tgt Ion:166 Resp: 288507

Ion Ratio Lower Upper

166 100

165 99.6 77.8 116.8

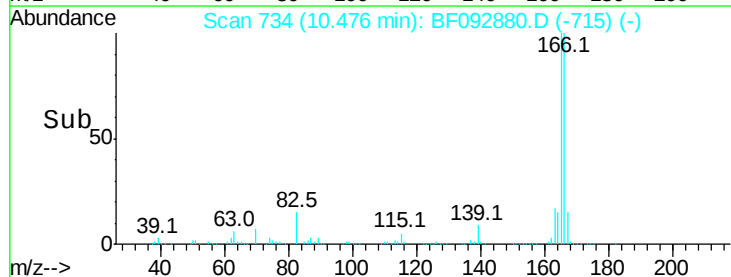
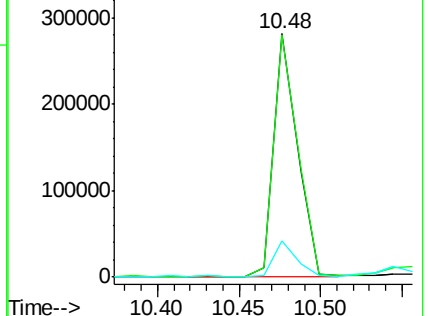
167 14.7 10.8 16.2

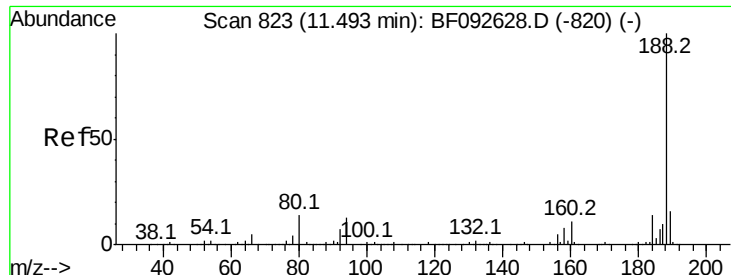


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

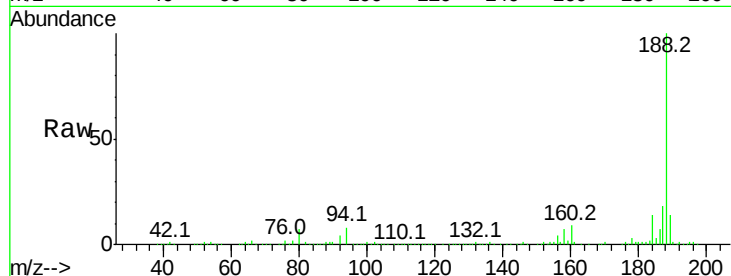




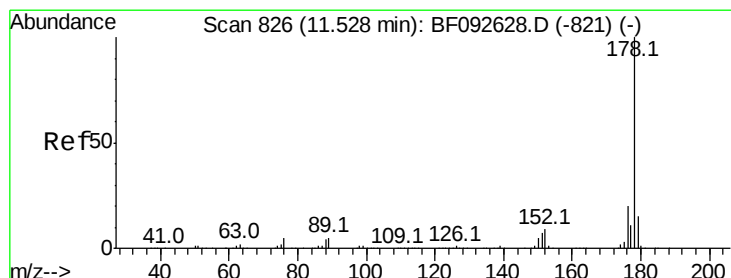
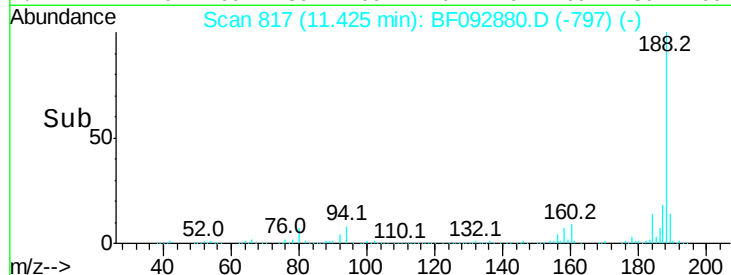
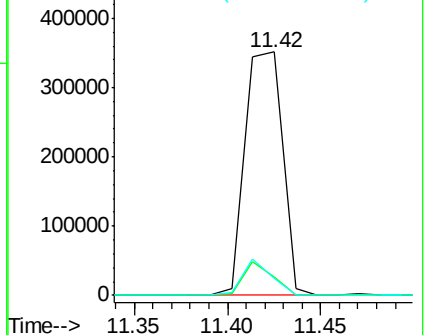
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 11.42 min Scan# 817
Delta R.T. -0.07 min
Lab File: BF092880.D
Acq: 9 Feb 2017 11:16

Instrument :
BNA_F
ClientSampleId :

Tot Ion:188 Resp: 491330
Ion Ratio Lower Upper
188 100
94 7.7 10.0 15.0#
80 7.1 11.2 16.8#

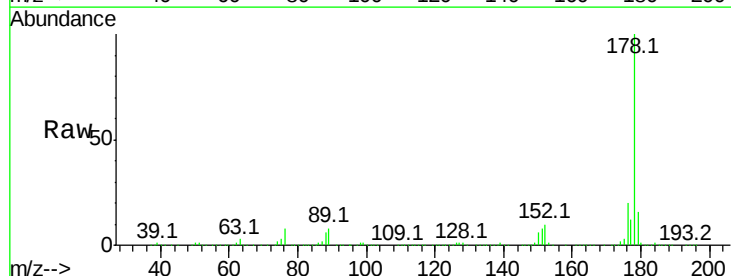


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

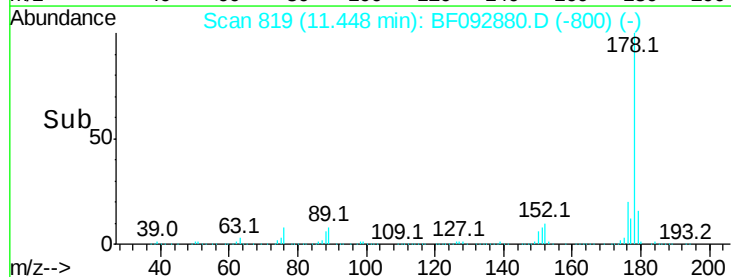
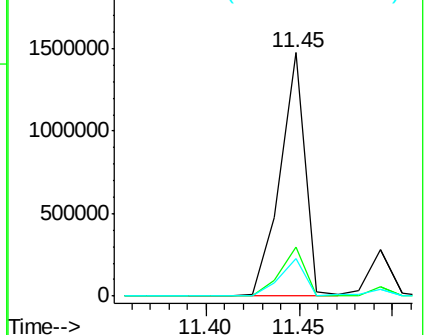


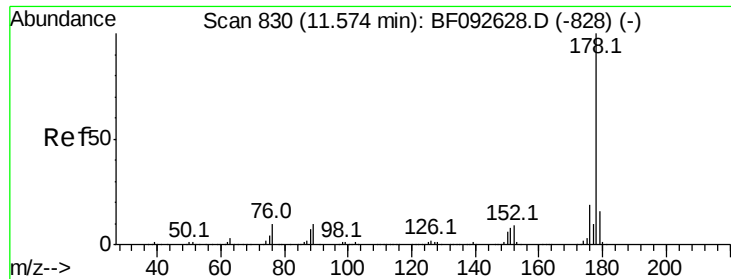
#70
Phenanthrene
Concen: 48.82 ng
RT: 11.45 min Scan# 819
Delta R.T. -0.08 min
Lab File: BF092880.D
Acq: 9 Feb 2017 11:16

Tgt Ion:178 Resp: 1374168
Ion Ratio Lower Upper
178 100
176 20.0 16.6 25.0
179 15.6 12.8 19.2



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

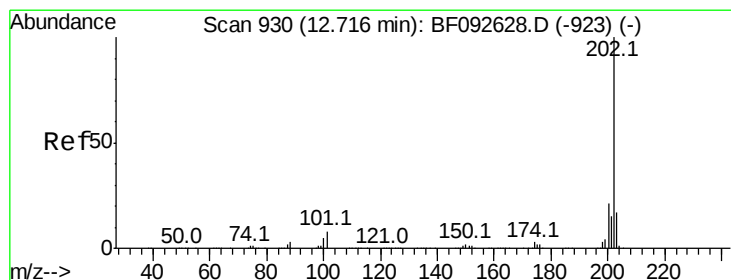
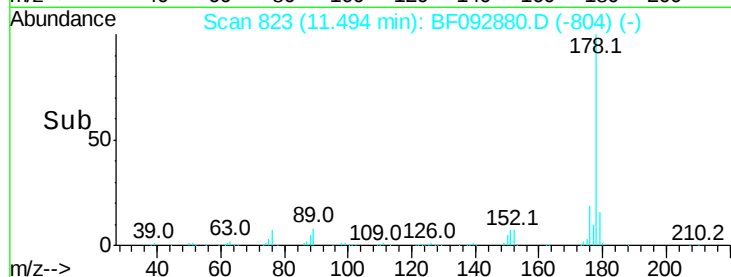
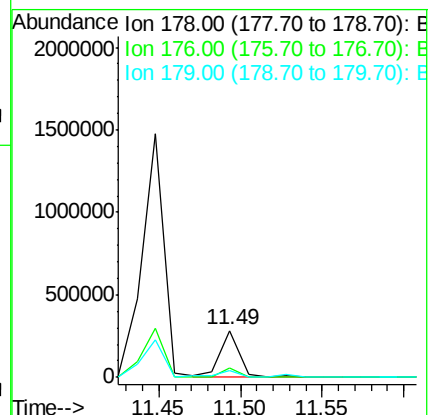
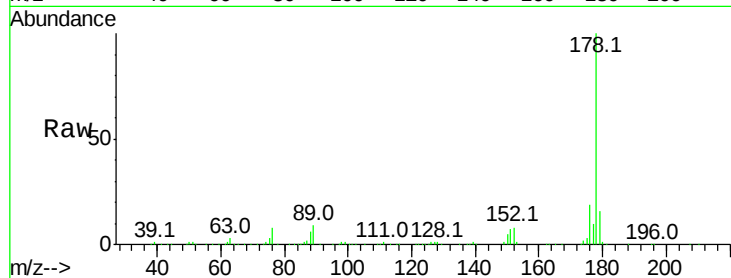




#71
 Anthracene
 Concen: 8.44 ng
 RT: 11.49 min Scan# 823
 Delta R.T. -0.08 min
 Lab File: BF092880.D
 Acq: 9 Feb 2017 11:16

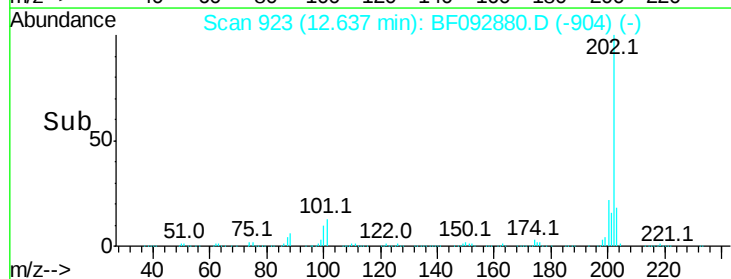
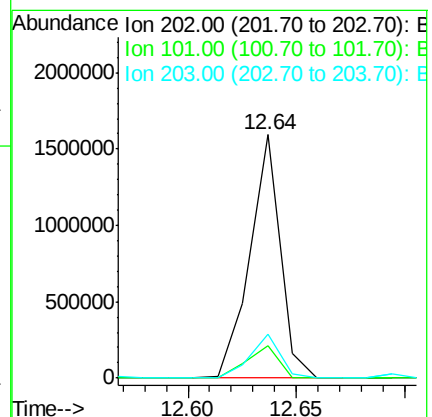
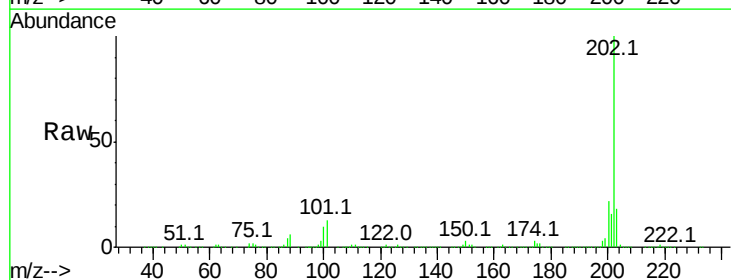
Instrument :
 BNA_F
 ClientSampleId :

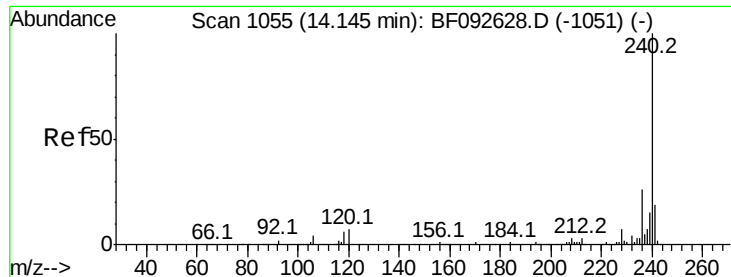
Tot Ion:178 Resp: 238629
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.9 23.9
 179 15.8 13.2 19.8



#74
 Fluoranthene
 Concen: 53.37 ng
 RT: 12.64 min Scan# 923
 Delta R.T. -0.08 min
 Lab File: BF092880.D
 Acq: 9 Feb 2017 11:16

Tgt Ion:202 Resp: 1549549
 Ion Ratio Lower Upper
 202 100
 101 13.3 0.0 34.6
 203 18.1 0.0 38.7





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.05 min Scan# 1047

Delta R.T. -0.09 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

Instrument :

BNA_F

ClientSampleId :

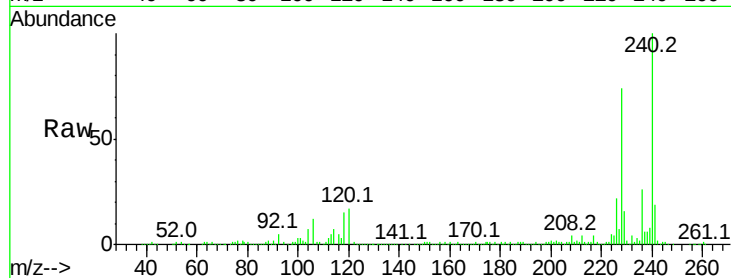
Tot Ion:240 Resp: 400274

Ion Ratio Lower Upper

240 100

120 17.2 12.9 19.3

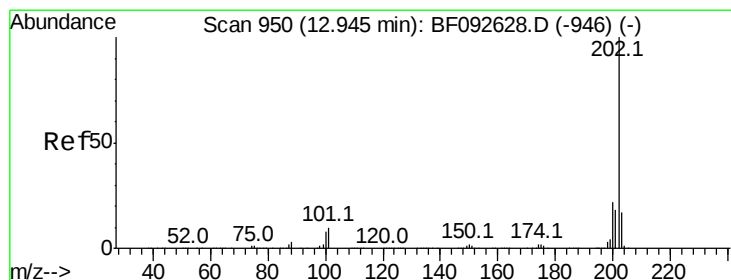
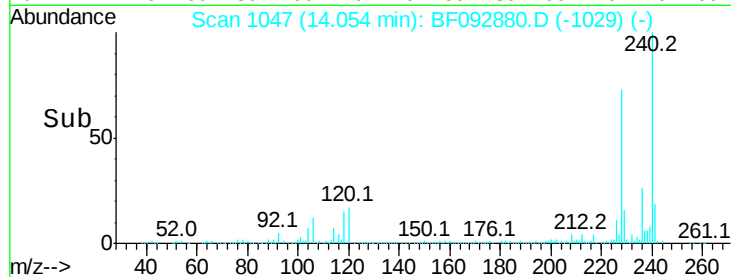
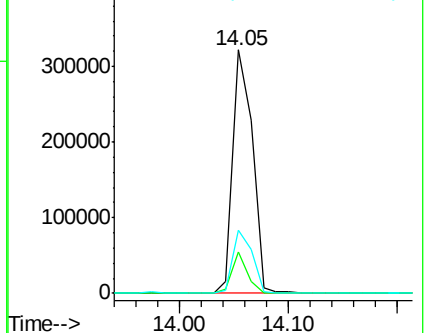
236 25.7 20.9 31.3



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: 46.07 ng

RT: 12.87 min Scan# 943

Delta R.T. -0.08 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

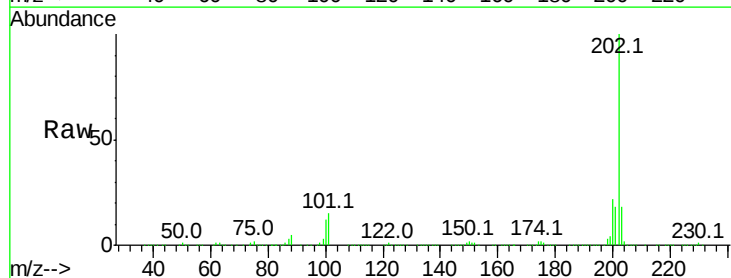
Tgt Ion:202 Resp: 1379975

Ion Ratio Lower Upper

202 100

200 22.0 17.7 26.5

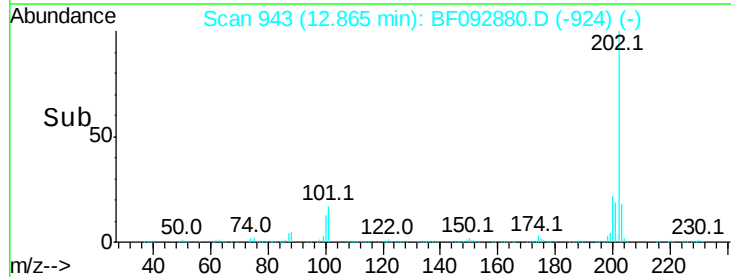
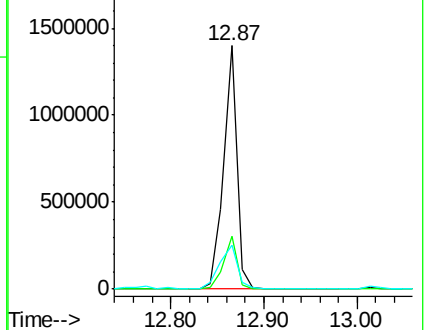
203 18.0 14.7 22.1

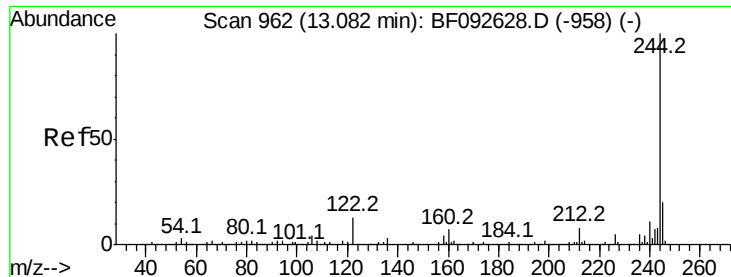


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 4.32 ng

RT: 13.00 min Scan# 955

Delta R.T. -0.08 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

Instrument :

BNA_F

ClientSampleId :

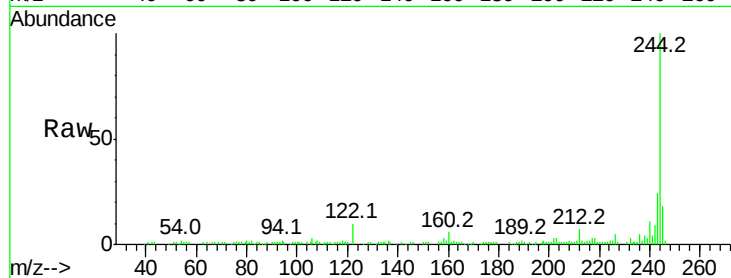
Tot Ion:244 Resp: 73616

Ion Ratio Lower Upper

244 100

212 6.8 6.2 9.2

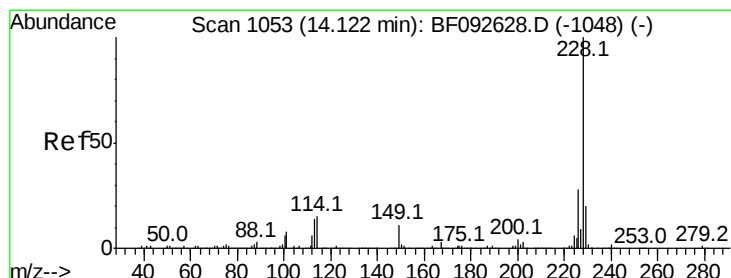
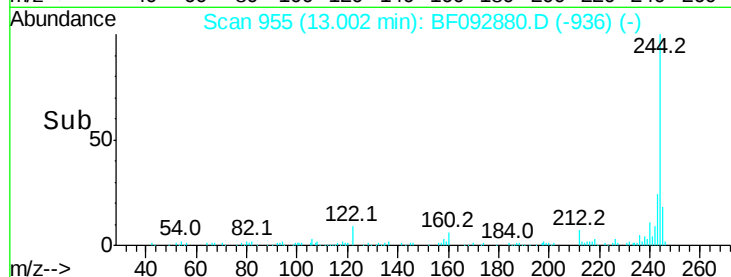
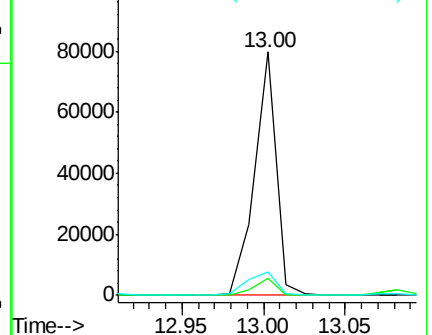
122 9.8 11.4 17.2#



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: 19.06 ng

RT: 14.04 min Scan# 1046

Delta R.T. -0.08 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

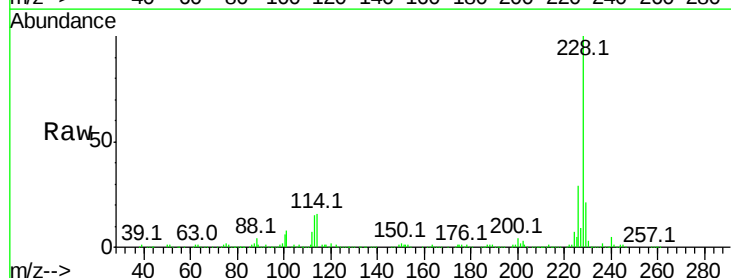
Tgt Ion:228 Resp: 466708

Ion Ratio Lower Upper

228 100

226 28.6 22.4 33.6

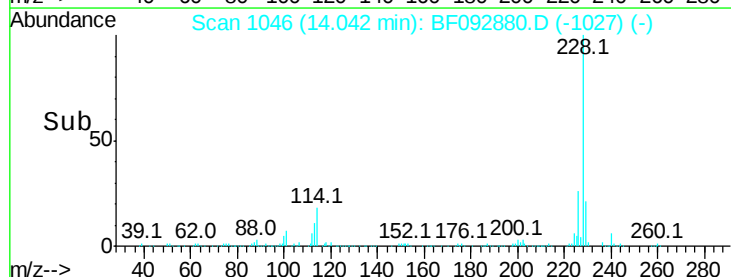
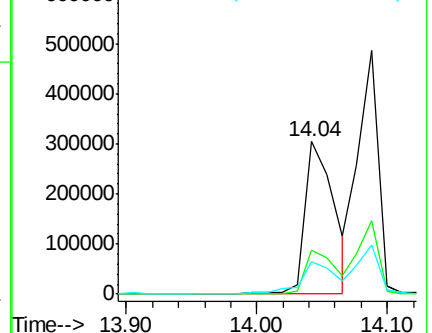
229 21.1 16.2 24.4

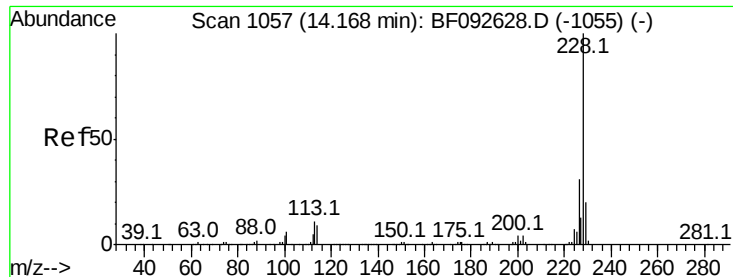


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 22.91 ng

RT: 14.09 min Scan# 1050

Delta R.T. -0.08 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

Instrument :

BNA_F

ClientSampleId :

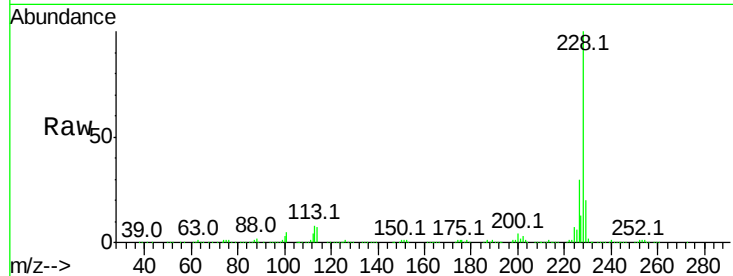
Tot Ion:228 Resp: 525099

Ion Ratio Lower Upper

228 100

226 30.0 25.4 38.0

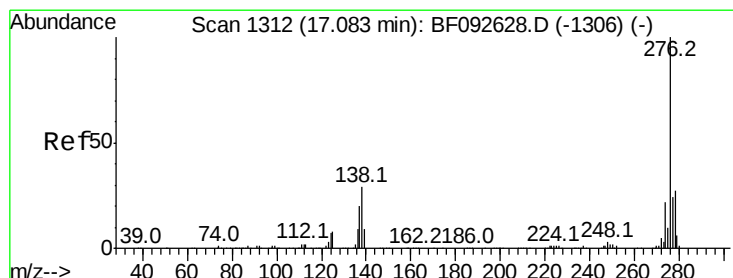
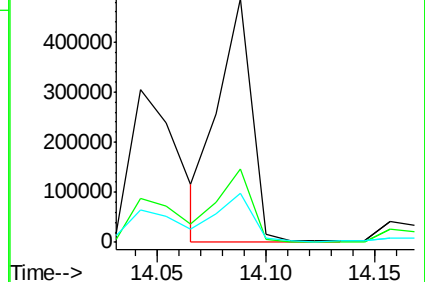
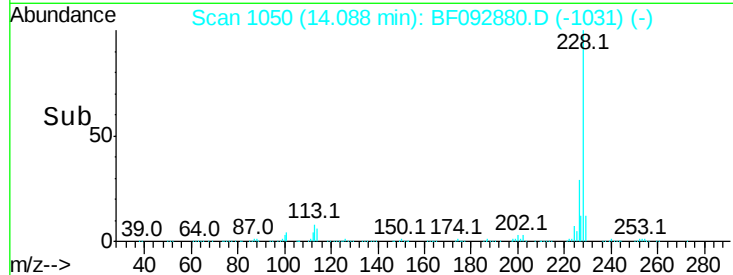
229 20.0 16.2 24.2



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: 2.79 ng

RT: 16.92 min Scan# 1298

Delta R.T. -0.16 min

Lab File: BF092880.D

Acq: 9 Feb 2017 11:16

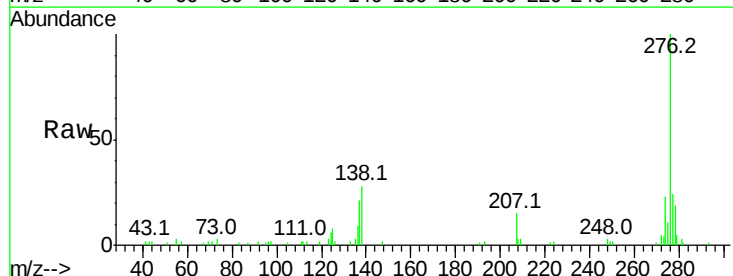
Tgt Ion:276 Resp: 49452

Ion Ratio Lower Upper

276 100

138 32.6 21.8 32.6

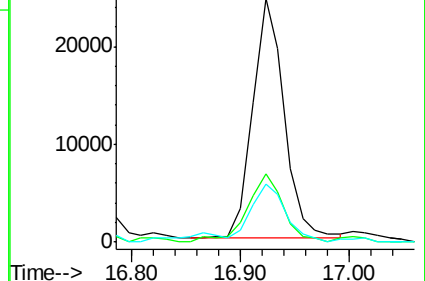
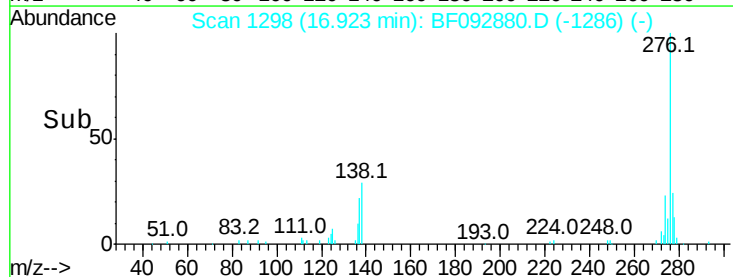
277 26.5 20.2 30.4

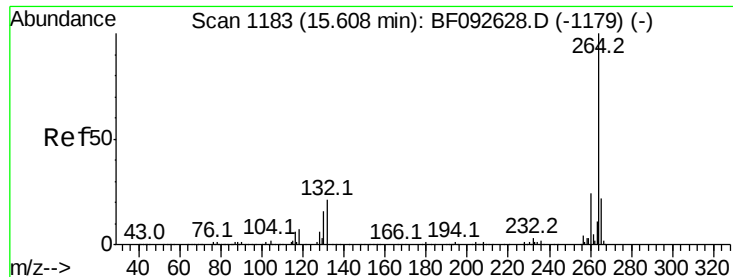


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

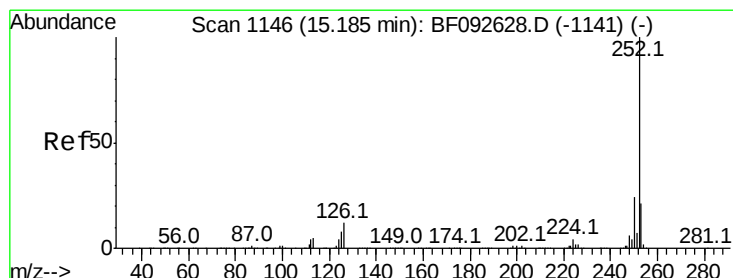
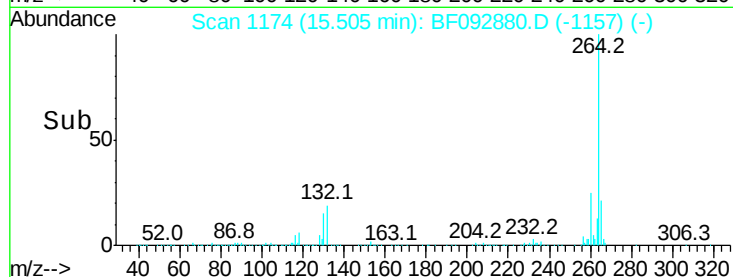
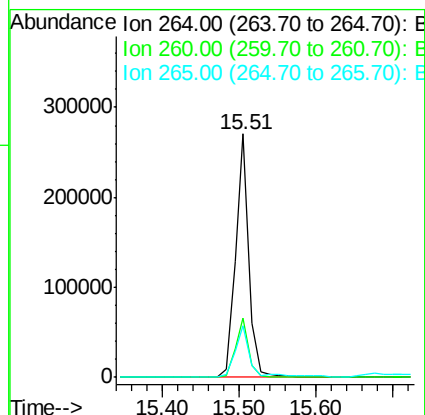
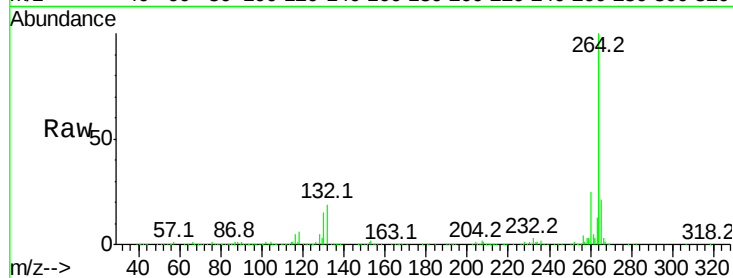




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.51 min Scan# 1174
Delta R.T. -0.10 min
Lab File: BF092880.D
Acq: 9 Feb 2017 11:16

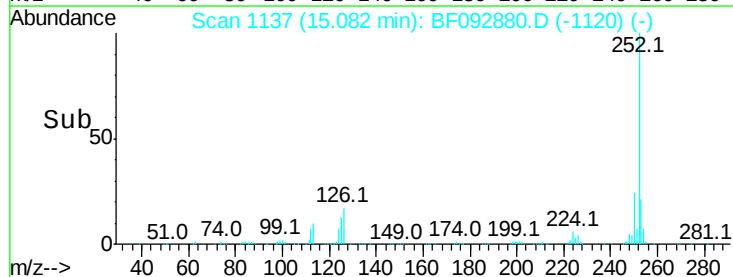
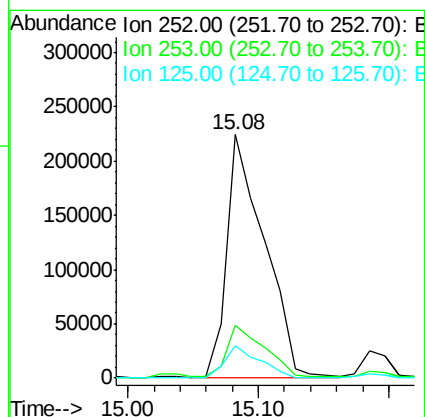
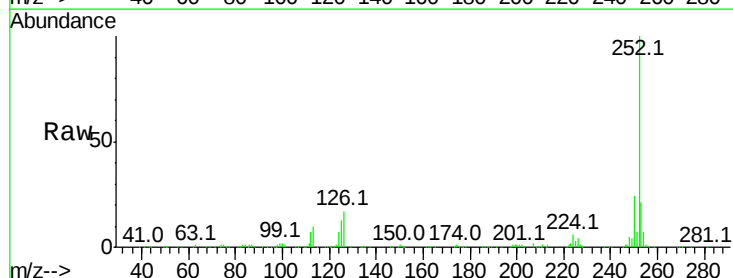
Instrument :
BNA_F
ClientSampleId :

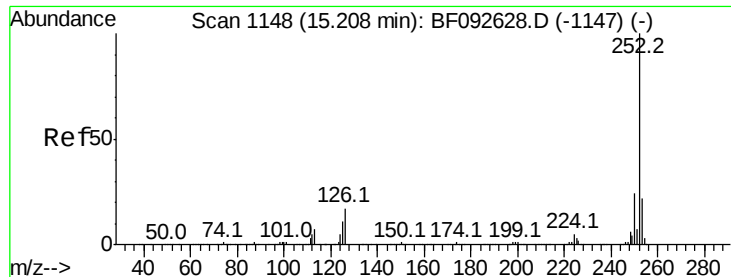
Tot Ion:264 Resp: 333222
Ion Ratio Lower Upper
264 100
260 24.6 19.2 28.8
265 21.2 17.4 26.0



#87
Benzo(b)fluoranthene
Concen: 20.50 ng
RT: 15.08 min Scan# 1137
Delta R.T. -0.10 min
Lab File: BF092880.D
Acq: 9 Feb 2017 11:16

Tgt Ion:252 Resp: 449606
Ion Ratio Lower Upper
252 100
253 21.5 18.2 27.4
125 13.2 9.8 14.6

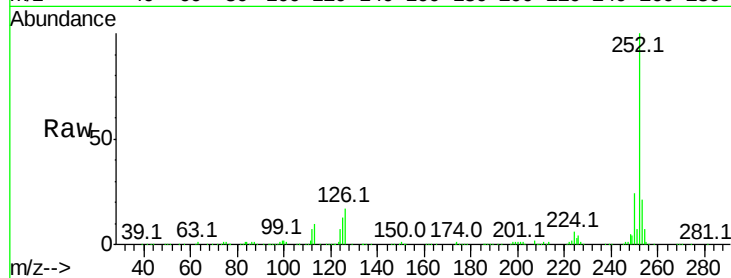




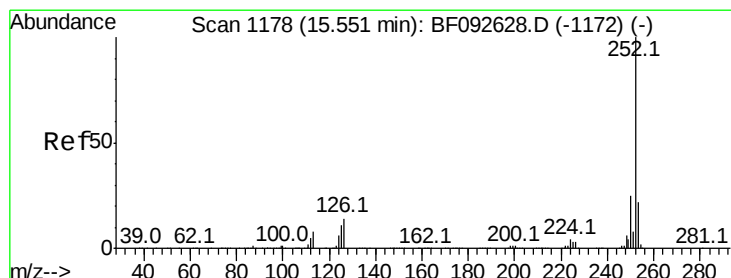
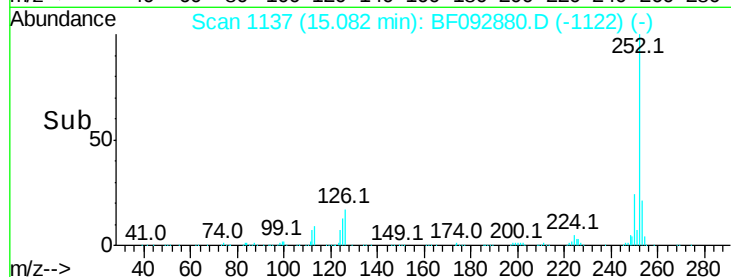
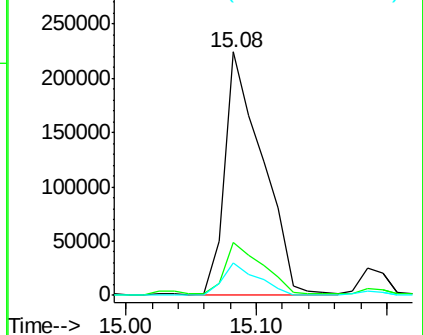
#88
Benzo(k)fluoranthene
Concen: 23.74 ng
RT: 15.08 min Scan# 1137
Delta R.T. -0.13 min
Lab File: BF092880.D
Acq: 9 Feb 2017 11:16

Instrument :
BNA_F
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
252	100		
253	21.5	18.5	27.7
125	13.2	8.9	13.3

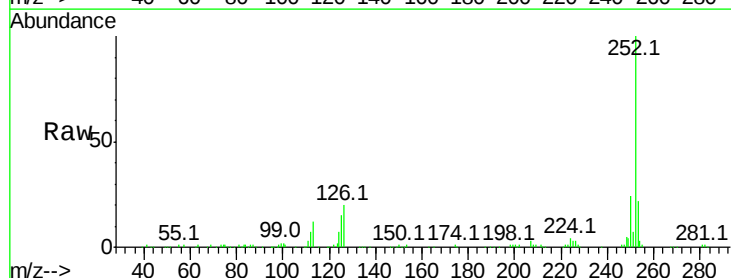


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

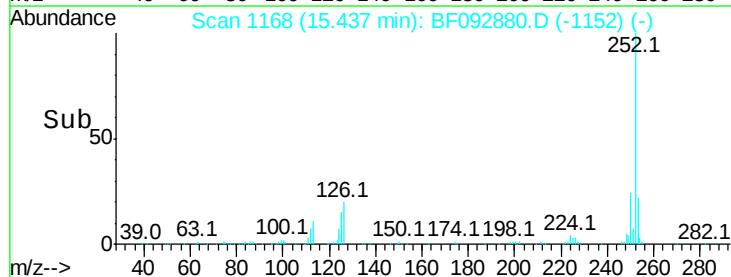
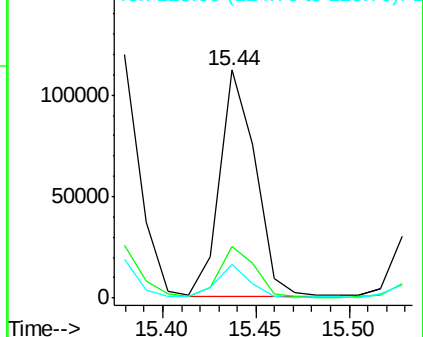


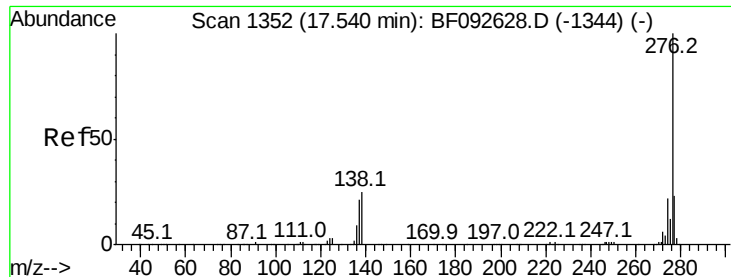
#89
Benzo(a)pyrene
Concen: 7.84 ng
RT: 15.44 min Scan# 1168
Delta R.T. -0.11 min
Lab File: BF092880.D
Acq: 9 Feb 2017 11:16

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.5	18.2	27.2
125	14.8	10.0	15.0



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

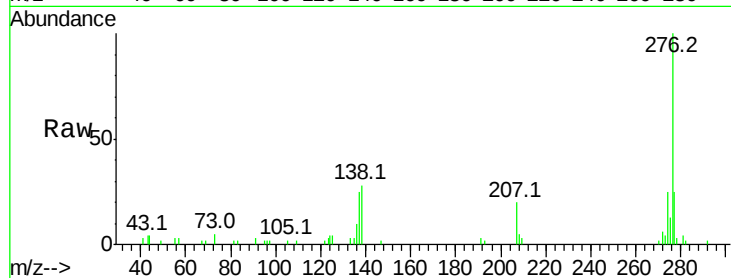




#91
 Benzo(a,h,i)perylene
 Concen: 2.59 ng
 RT: 17.36 min Scan# 1336
 Delta R.T. -0.18 min
 Lab File: BF092880.D
 Acq: 9 Feb 2017 11:16

Instrument :
 BNA_F
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
276	100		
277	25.4	19.2	28.8
138	28.0	16.0	24.0



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

