

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041315\
 Data File : BF078486.D
 Acq On : 14 Apr 2015 5:36
 Operator : TP/IZ
 Sample : G1793-18DL 5X
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-10DDL

Quant Time: Apr 14 05:23:30 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Apr 14 04:24:31 2015
 Response via : Initial Calibration

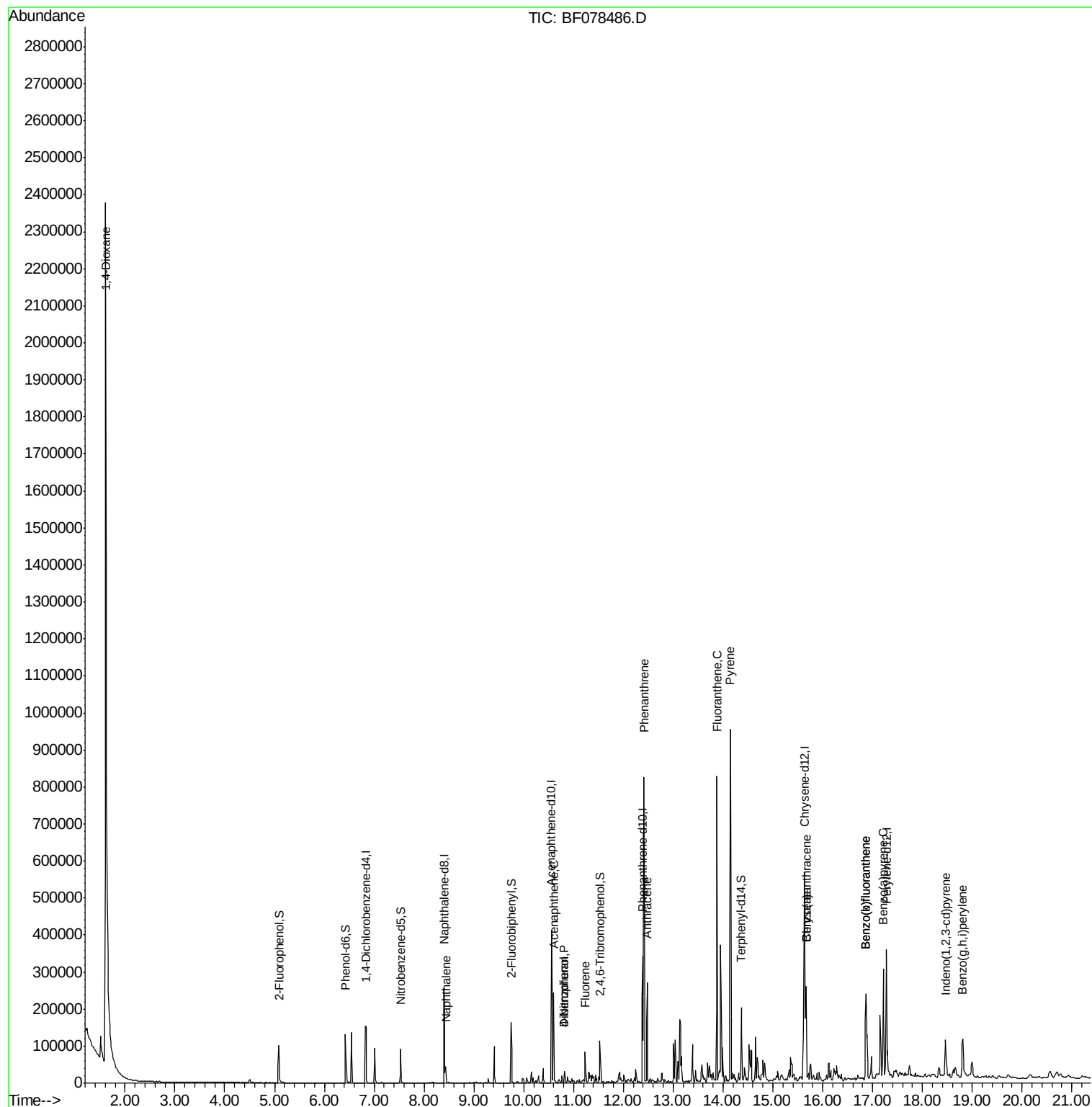
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	38142	20.00	ng	0.00
21) Naphthalene-d8	8.40	136	159461	20.00	ng	-0.01
38) Acenaphthene-d10	10.56	164	85943	20.00	ng	-0.01
63) Phenanthrene-d10	12.39	188	170240	20.00	ng	0.00
75) Chrysene-d12	15.63	240	182956	20.00	ng	-0.01
86) Perylene-d12	17.28	264	177723	20.00	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.08	112	43760	18.92	ng	0.01
7) Phenol-d6	6.42	99	59471	20.51	ng	-0.01
23) Nitrobenzene-d5	7.53	82	31234	11.87	ng	0.00
41) 2,4,6-Tribromophenol	11.53	330	14064	19.73	ng	-0.01
44) 2-Fluorobiphenyl	9.75	172	66193	11.01	ng	-0.01
78) Terphenyl-d14	14.37	244	86188	10.64	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	1.61	88	103275	98.73	ng	# 25
31) Naphthalene	8.43	128	24784	2.99	ng	98
51) Acenaphthene	10.60	154	79864	15.88	ng	100
54) Dibenzofuran	10.81	168	15847	2.06	ng	98
55) 4-Nitrophenol	10.81	139	5847	7.84	ng	# 18
57) Fluorene	11.23	166	27660	4.44	ng	98
70) Phenanthrene	12.41	178	341507	34.68	ng	99
71) Anthracene	12.48	178	137168	14.14	ng	99
74) Fluoranthene	13.87	202	359411	34.61	ng	95
77) Pyrene	14.15	202	405291	35.29	ng	96
80) Benzo(a)anthracene	15.67	228	94403	8.67	ng	95
82) Chrysene	15.67	228	113890	11.14	ng	99
85) Indeno(1,2,3-cd)pyrene	18.47	276	70239	6.05	ng	# 87
87) Benzo(b)fluoranthene	16.87	252	182280	16.60	ng	# 97
88) Benzo(k)fluoranthene	16.87	252	185938	19.05	ng	97
89) Benzo(a)pyrene	17.21	252	133588	13.94	ng	# 93
91) Benzo(g,h,i)perylene	18.81	276	74733	7.77	ng	98

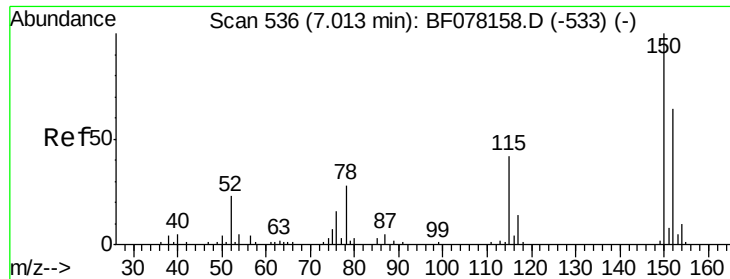
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.83 min Scan# 494

Delta R.T. -0.00 min

Lab File: BF078486.D

Acq: 14 Apr 2015 5:36

Instrument :

BNA_F

ClientSampleId :

SB-10DDL

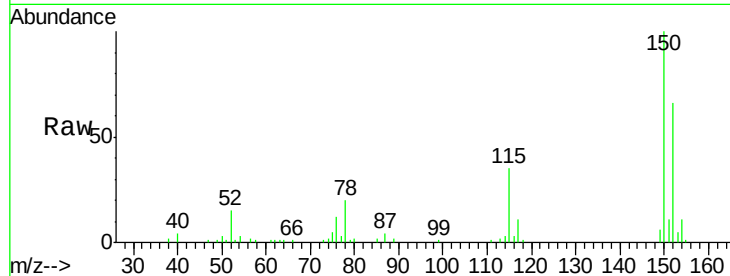
Tgt Ion:152 Resp: 38142

Ion Ratio Lower Upper

152 100

150 152.7 125.9 188.9

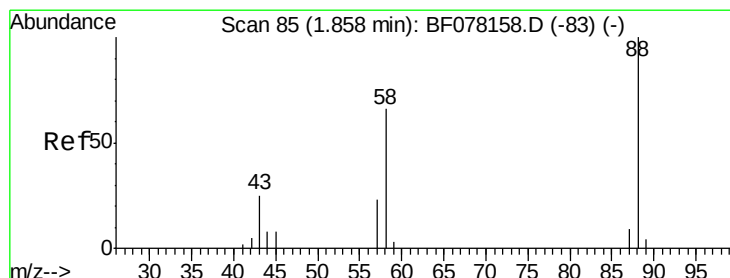
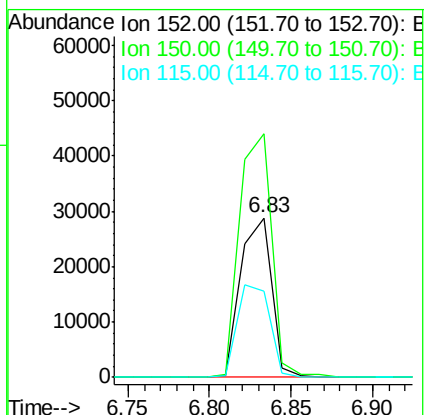
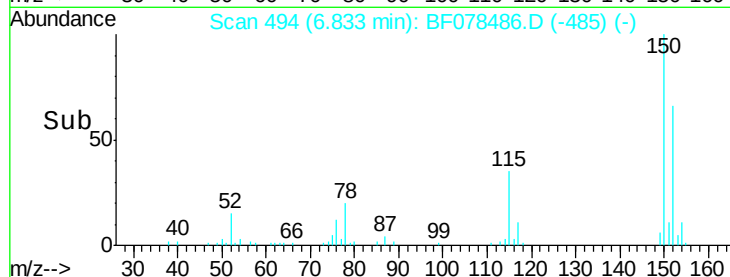
115 53.7 52.7 79.1



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



#2

1,4-Dioxane

Concen: 98.73 ng

RT: 1.61 min Scan# 37

Delta R.T. -0.00 min

Lab File: BF078486.D

Acq: 14 Apr 2015 5:36

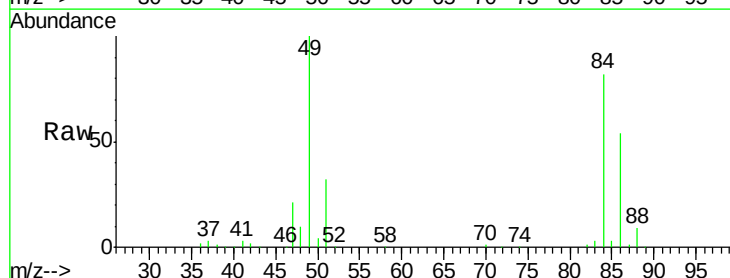
Tgt Ion: 88 Resp: 103275

Ion Ratio Lower Upper

88 100

58 0.0 56.9 85.3#

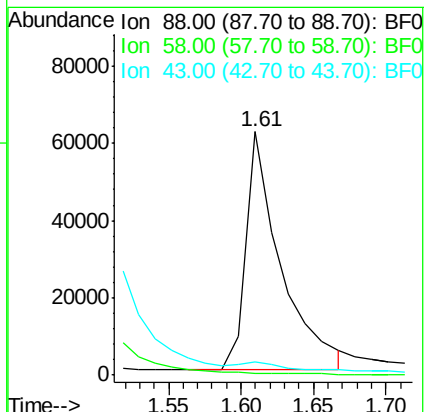
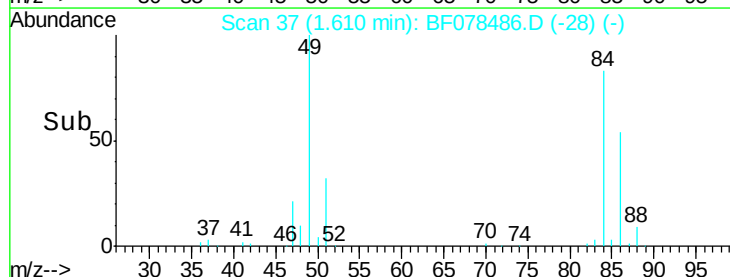
43 3.9 21.4 32.2#

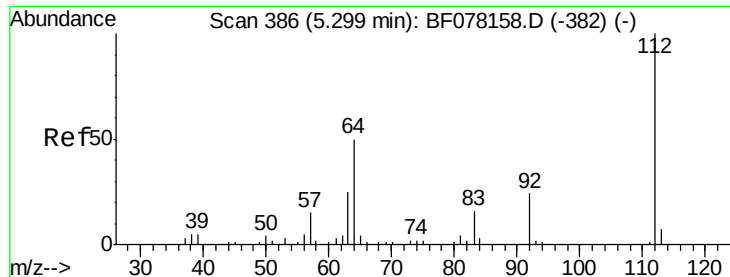


Abundance Ion 88.00 (87.70 to 88.70): BF0

Ion 58.00 (57.70 to 58.70): BF0

Ion 43.00 (42.70 to 43.70): BF0





#5

2-Fluorophenol

Concen: 18.92 ng

RT: 5.08 min Scan# 341

Delta R.T. 0.01 min

Lab File: BF078486.D

Acq: 14 Apr 2015 5:36

Instrument :

BNA_F

ClientSampleId :

SB-10DDL

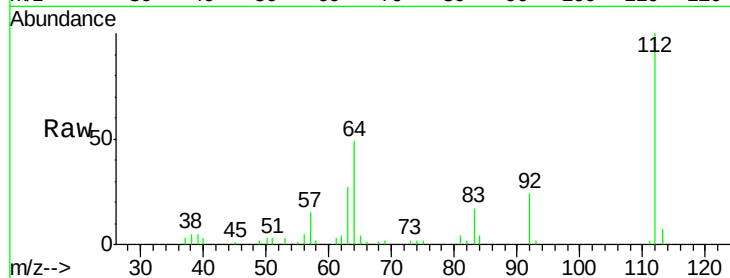
Tgt Ion: 112 Resp: 43760

Ion Ratio Lower Upper

112 100

64 49.2 39.9 59.9

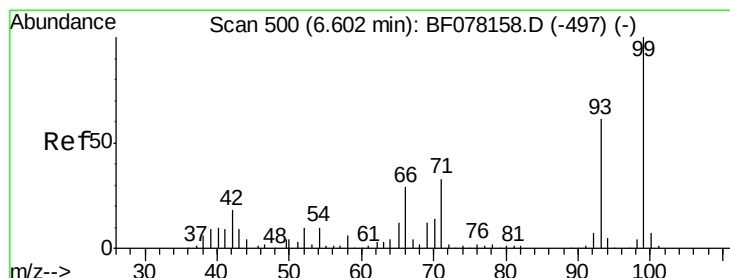
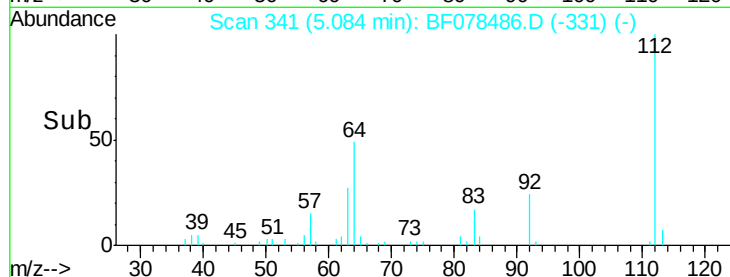
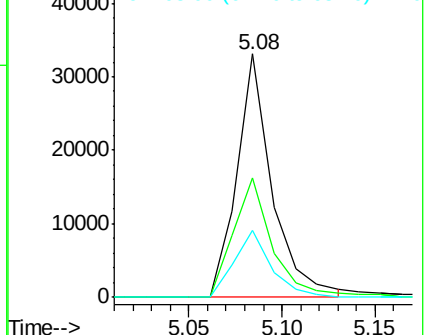
63 27.3 20.2 30.4



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: 20.51 ng

RT: 6.42 min Scan# 458

Delta R.T. -0.01 min

Lab File: BF078486.D

Acq: 14 Apr 2015 5:36

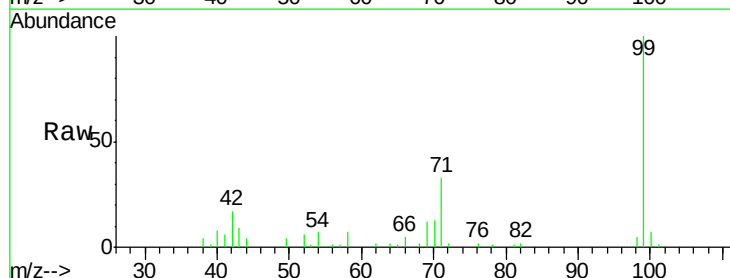
Tgt Ion: 99 Resp: 59471

Ion Ratio Lower Upper

99 100

42 17.4 14.8 22.2

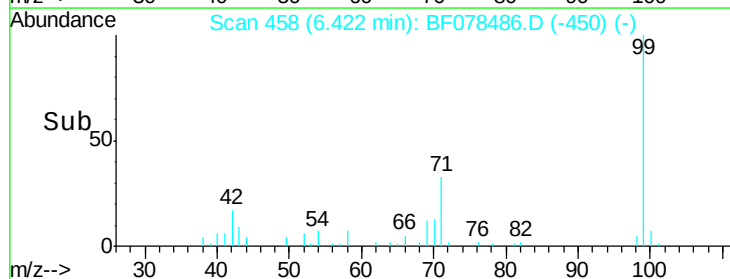
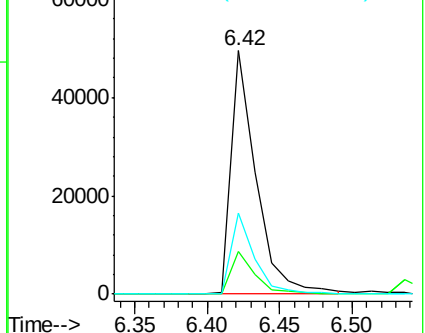
71 33.2 26.6 39.8

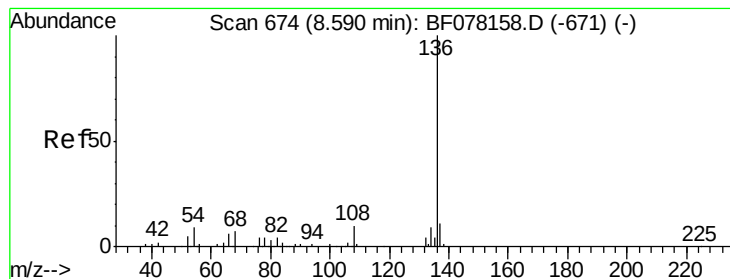


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.40 min Scan# 631

Delta R.T. -0.01 min

Lab File: BF078486.D

Acq: 14 Apr 2015 5:36

Instrument :

BNA_F

ClientSampled :

SB-10DDL

Tgt Ion: 136 Resp: 159461

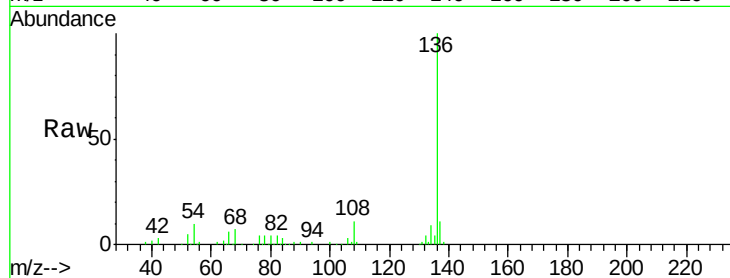
Ion Ratio Lower Upper

136 100

137 11.2 9.0 13.4

54 9.5 7.0 10.6

68 7.4 5.4 8.2

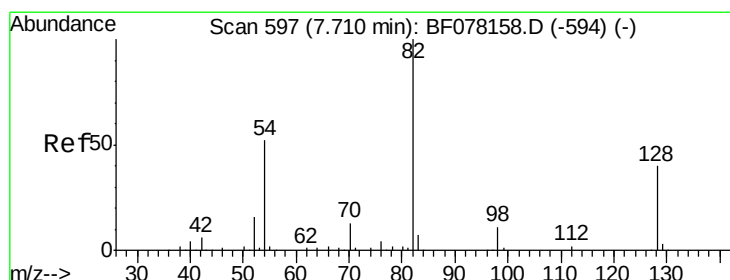
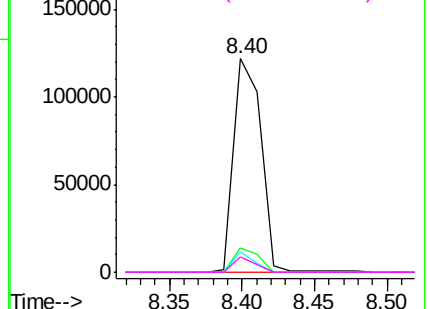
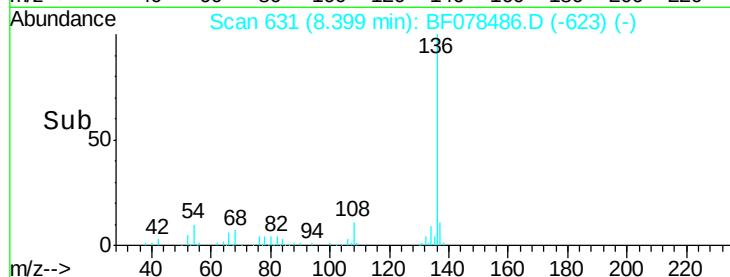


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 11.87 ng

RT: 7.53 min Scan# 555

Delta R.T. -0.00 min

Lab File: BF078486.D

Acq: 14 Apr 2015 5:36

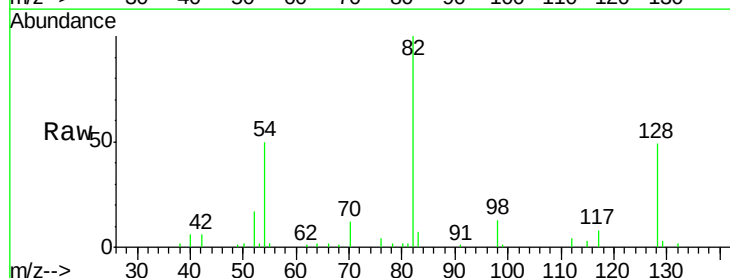
Tgt Ion: 82 Resp: 31234

Ion Ratio Lower Upper

82 100

128 49.4 31.8 47.8#

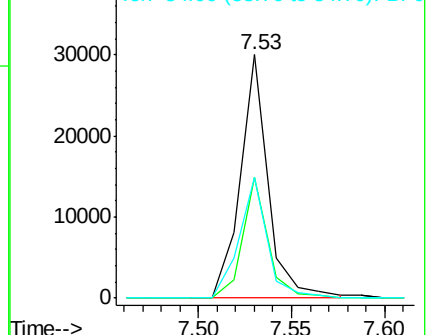
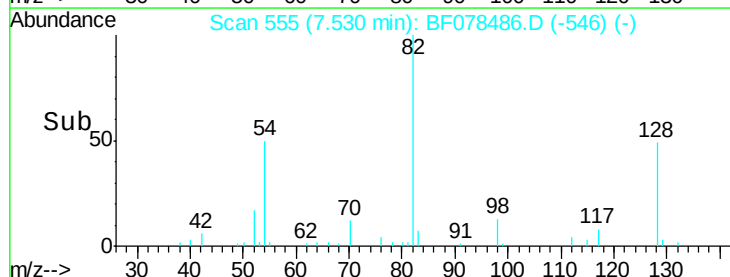
54 49.6 41.5 62.3

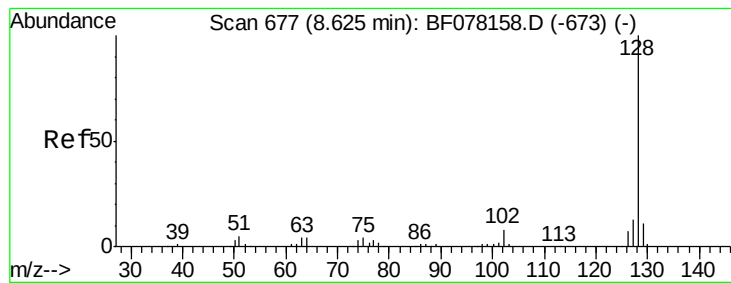


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#31

Naphthalene

Concen: 2.99 ng

RT: 8.43 min Scan# 634

Delta R.T. -0.00 min

Lab File: BF078486.D

Acq: 14 Apr 2015 5:36

Instrument :

BNA_F

ClientSampleId :

SB-10DDL

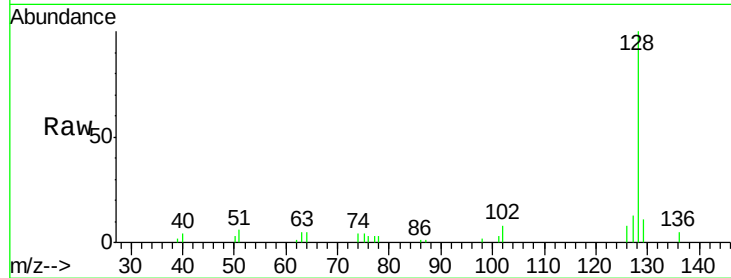
Tgt Ion:128 Resp: 24784

Ion Ratio Lower Upper

128 100

129 11.4 8.6 12.8

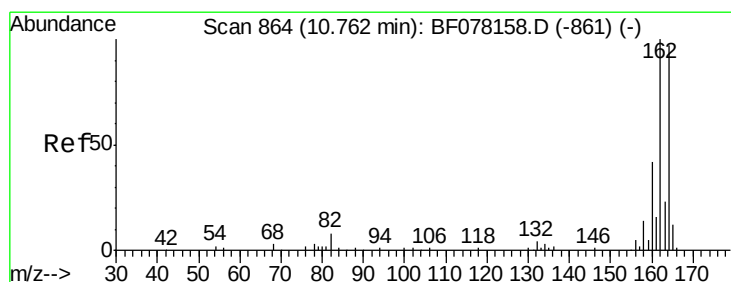
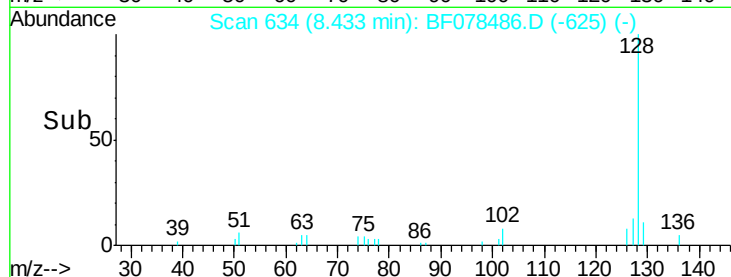
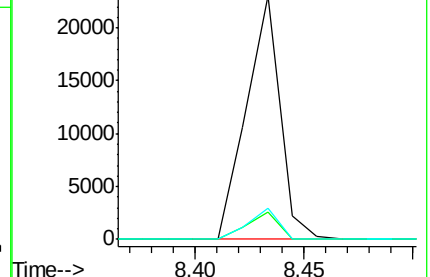
127 12.5 10.7 16.1



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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.56 min Scan# 820

Delta R.T. -0.01 min

Lab File: BF078486.D

Acq: 14 Apr 2015 5:36

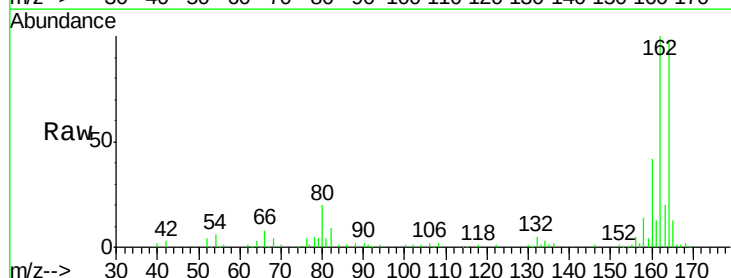
Tgt Ion:164 Resp: 85943

Ion Ratio Lower Upper

164 100

162 102.3 82.2 123.2

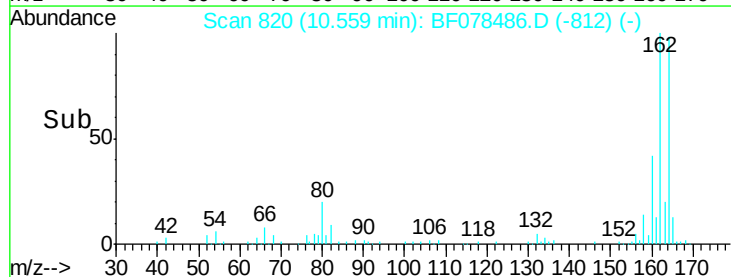
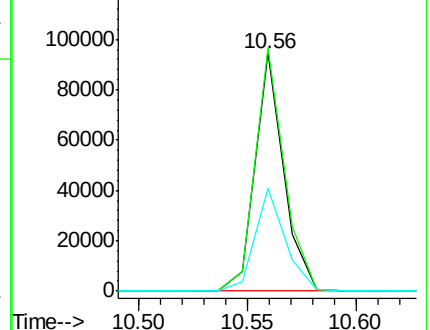
160 43.2 34.7 52.1

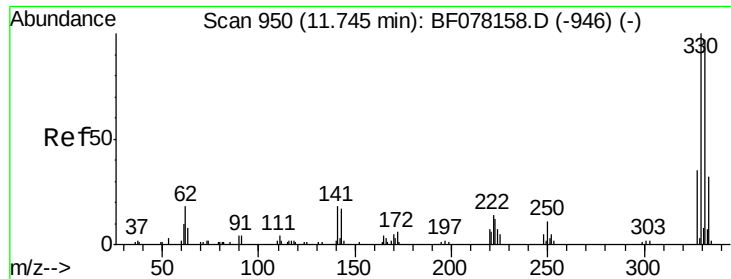


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

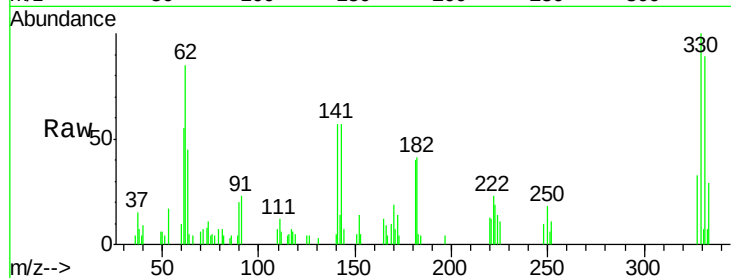




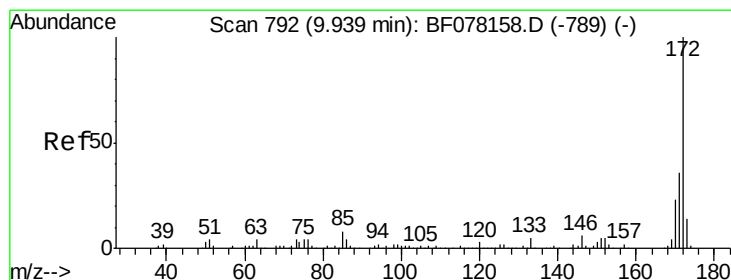
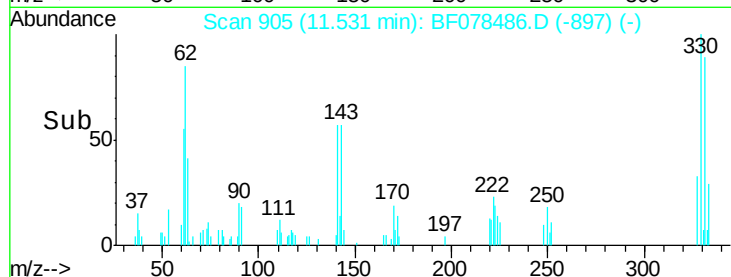
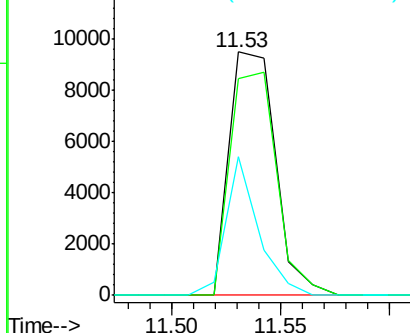
#41
 2,4,6-Tribromophenol
 Concen: 19.73 ng
 RT: 11.53 min Scan# 905
 Delta R.T. -0.01 min
 Lab File: BF078486.D
 Acq: 14 Apr 2015 5:36

Instrument :
 BNA_F
 ClientSampleId :
 SB-10DDL

Tgt Ion:330 Resp: 14064
 Ion Ratio Lower Upper
 330 100
 332 92.6 78.6 117.8
 141 39.6 31.2 46.8

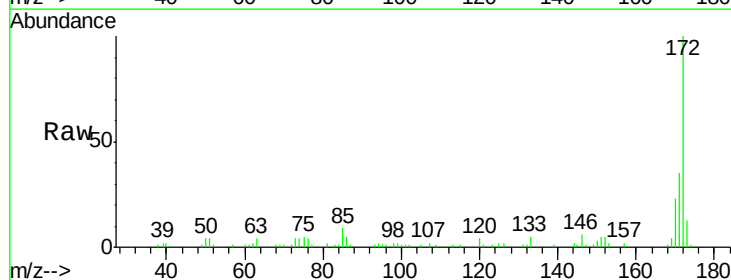


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

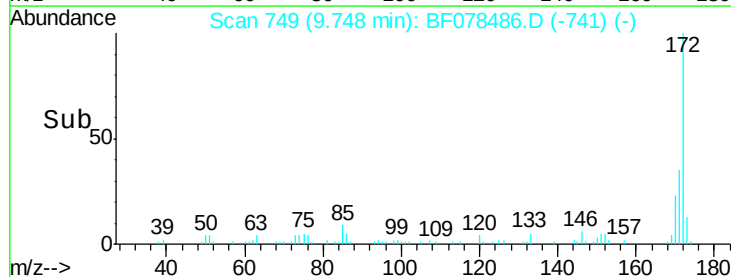
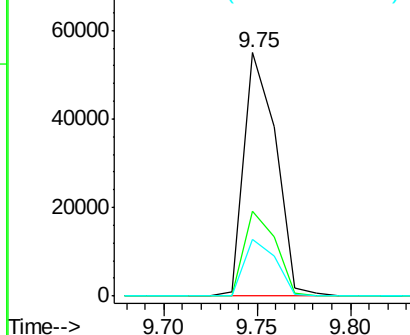


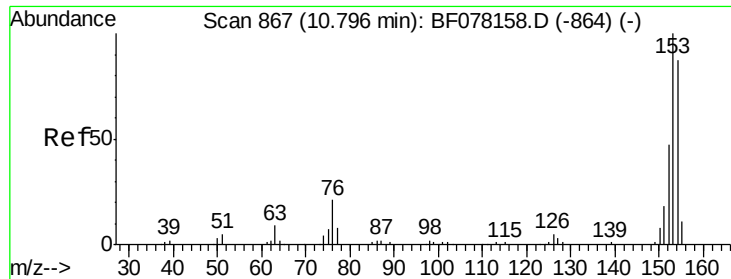
#44
 2-Fluorobiphenyl
 Concen: 11.01 ng
 RT: 9.75 min Scan# 749
 Delta R.T. -0.01 min
 Lab File: BF078486.D
 Acq: 14 Apr 2015 5:36

Tgt Ion:172 Resp: 66193
 Ion Ratio Lower Upper
 172 100
 171 34.6 28.6 42.8
 170 23.1 18.5 27.7



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





#51

Acenaphthene

Concen: 15.88 ng

RT: 10.60 min Scan# 824

Delta R.T. -0.00 min

Lab File: BF078486.D

Acq: 14 Apr 2015 5:36

Instrument :

BNA_F

ClientSampleId :

SB-10DDL

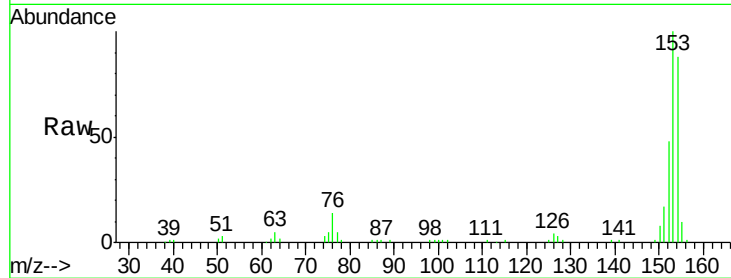
Tgt Ion:154 Resp: 79864

Ion Ratio Lower Upper

154 100

153 114.2 91.4 137.2

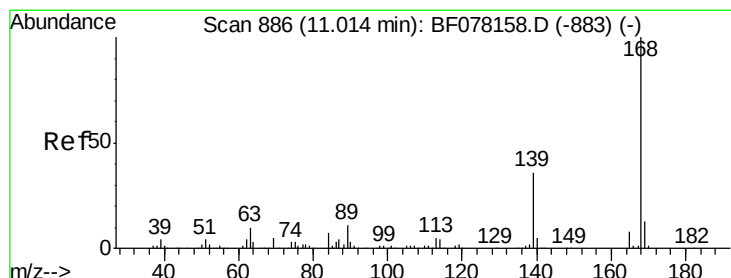
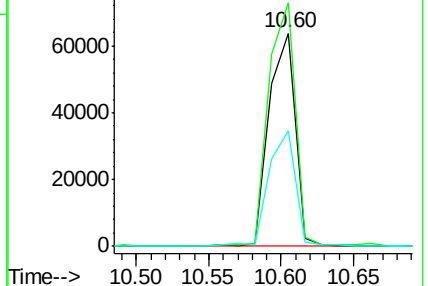
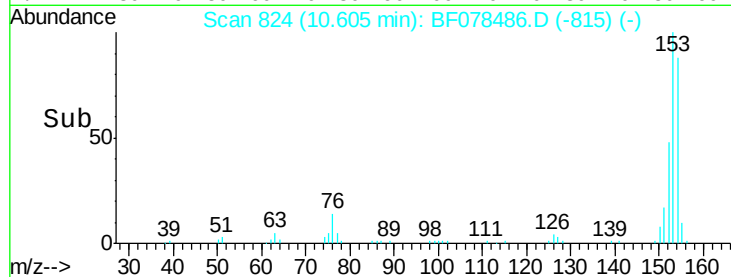
152 54.4 43.0 64.6



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: 2.06 ng

RT: 10.81 min Scan# 842

Delta R.T. -0.01 min

Lab File: BF078486.D

Acq: 14 Apr 2015 5:36

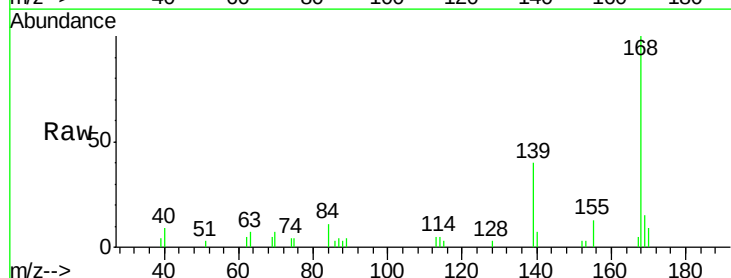
Tgt Ion:168 Resp: 15847

Ion Ratio Lower Upper

168 100

139 39.6 31.0 46.4

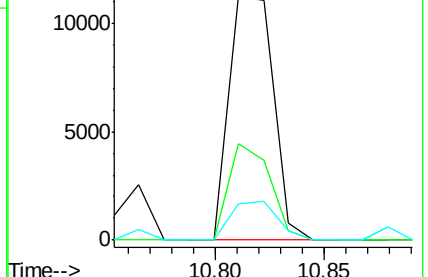
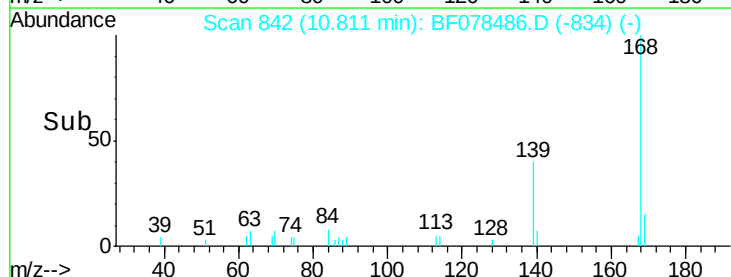
169 14.8 10.7 16.1

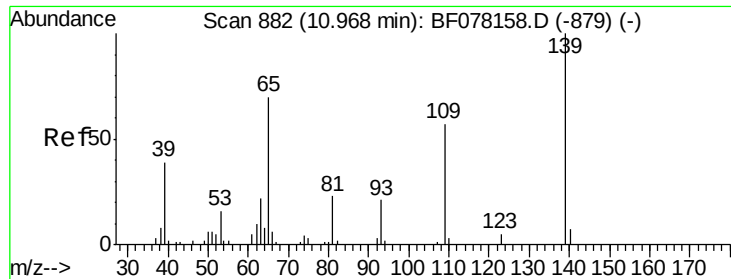


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#55

4-Nitrophenol

Concen: 7.84 ng

RT: 10.81 min Scan# 842

Delta R.T. 0.02 min

Lab File: BF078486.D

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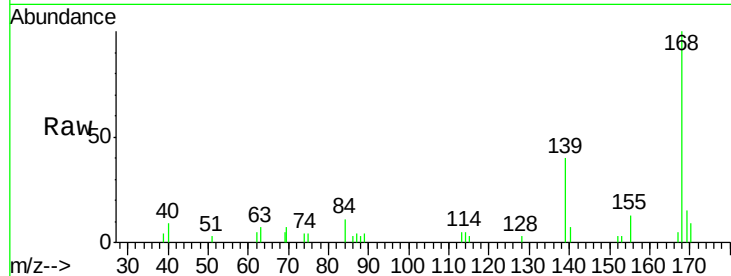
Tgt Ion:139 Resp: 5847

Ion Ratio Lower Upper

139 100

109 0.0 36.7 76.7#

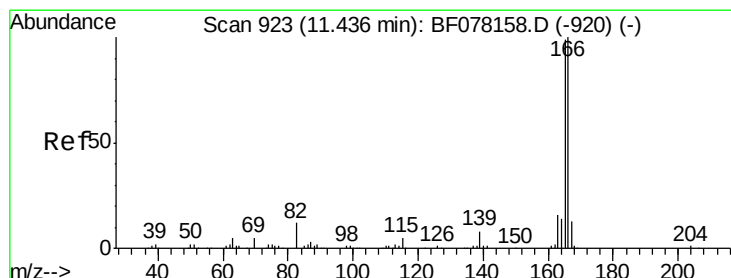
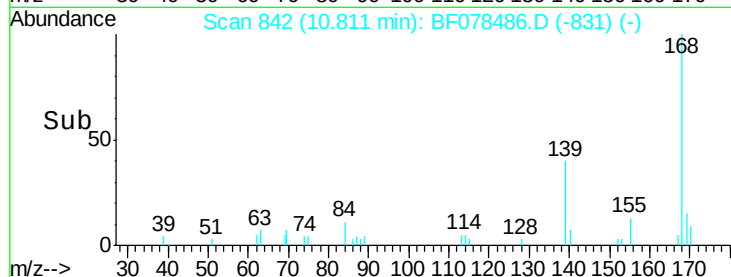
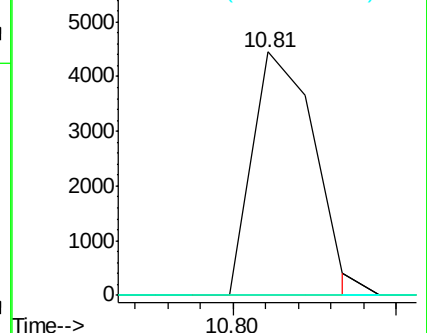
65 0.0 49.9 89.9#



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: 4.44 ng

RT: 11.23 min Scan# 879

Delta R.T. -0.01 min

Lab File: BF078486.D

Acq: 14 Apr 2015 5:36

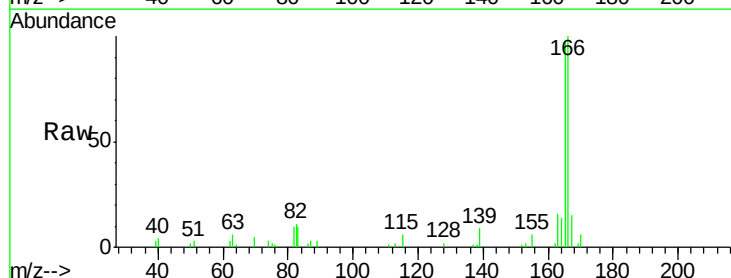
Tgt Ion:166 Resp: 27660

Ion Ratio Lower Upper

166 100

165 97.2 78.9 118.3

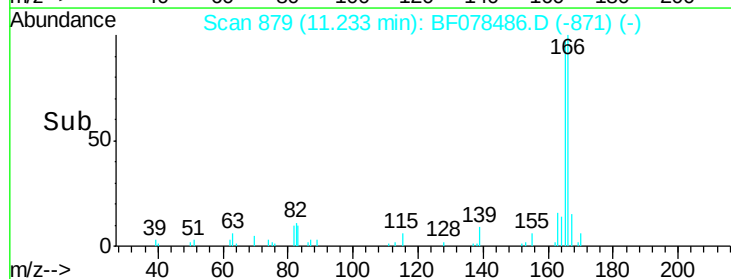
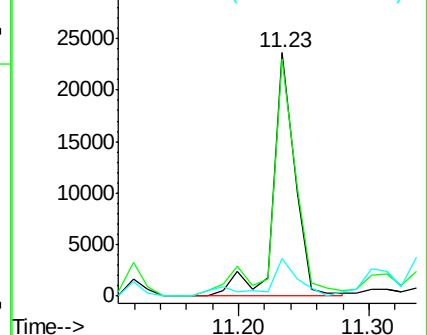
167 15.5 10.7 16.1

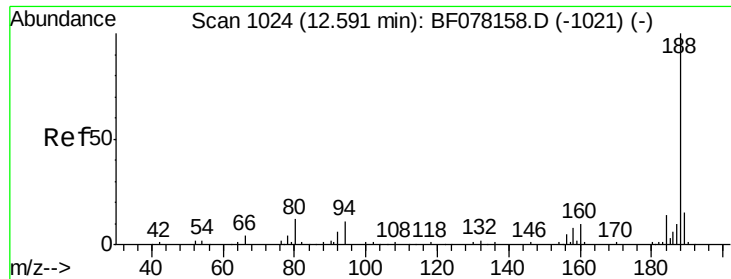


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

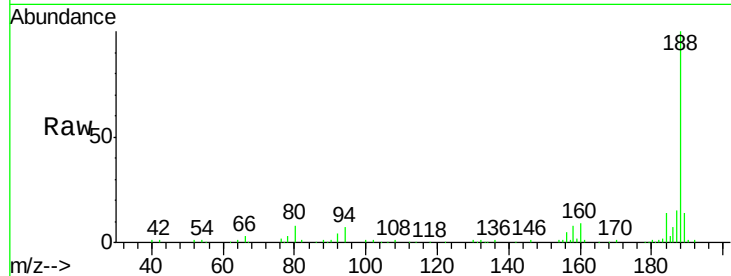




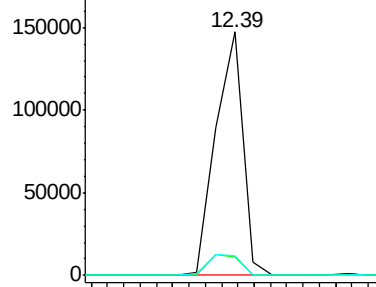
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.39 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: BF078486.D
 Acq: 14 Apr 2015 5:36

Instrument :
 BNA_F
 ClientSampleId :
 SB-10DDL

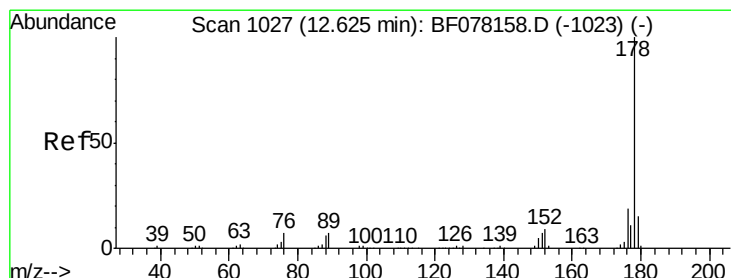
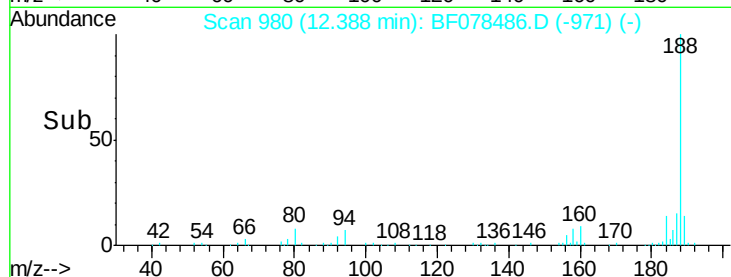
Tgt Ion:188 Resp: 170240
 Ion Ratio Lower Upper
 188 100
 94 7.5 9.0 13.4#
 80 8.0 9.5 14.3#



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

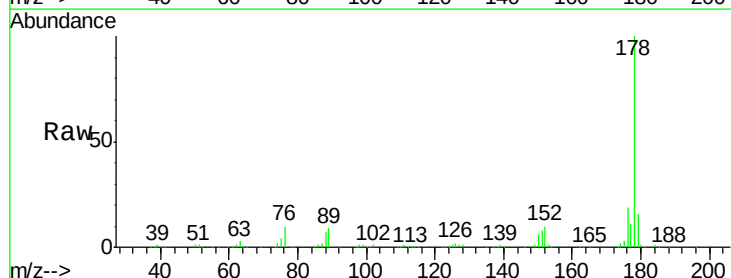


Time--> 12.30 12.35 12.40 12.45

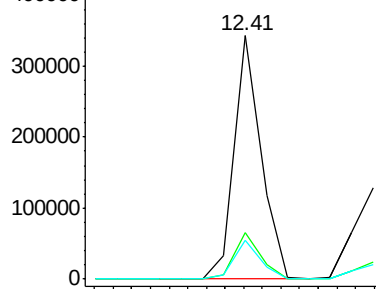


#70
 Phenanthrene
 Concen: 34.68 ng
 RT: 12.41 min Scan# 982
 Delta R.T. -0.01 min
 Lab File: BF078486.D
 Acq: 14 Apr 2015 5:36

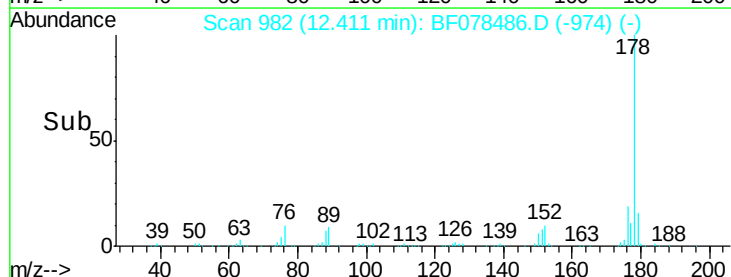
Tgt Ion:178 Resp: 341507
 Ion Ratio Lower Upper
 178 100
 176 19.1 15.4 23.0
 179 16.0 12.2 18.2

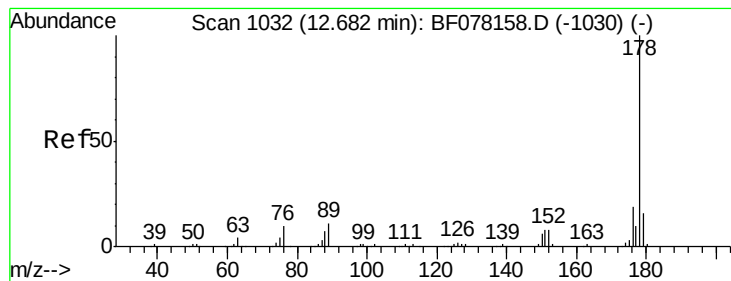


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E



Time--> 12.35 12.40 12.45





#71

Anthracene

Concen: 14.14 ng

RT: 12.48 min Scan# 988

Delta R.T. -0.00 min

Lab File: BF078486.D

Acq: 14 Apr 2015 5:36

Instrument :

BNA_F

ClientSampleId :

SB-10DDL

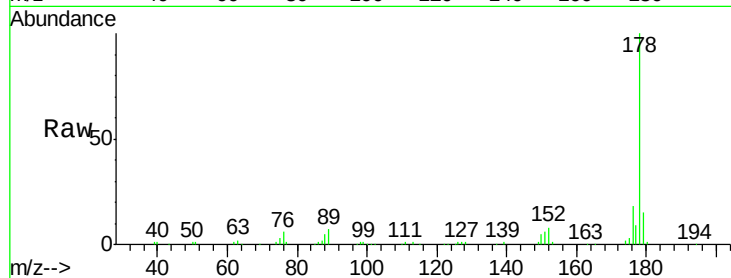
Tgt Ion:178 Resp: 137168

Ion Ratio Lower Upper

178 100

176 18.1 14.8 22.2

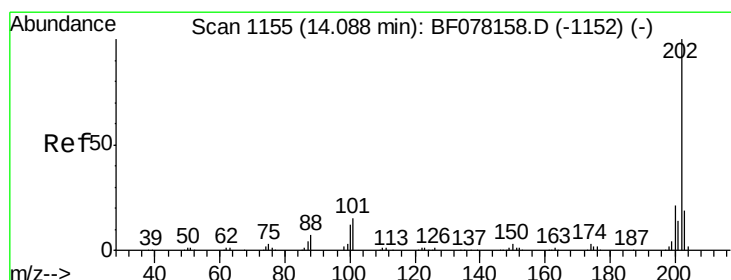
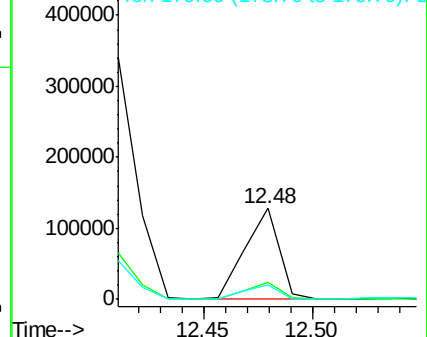
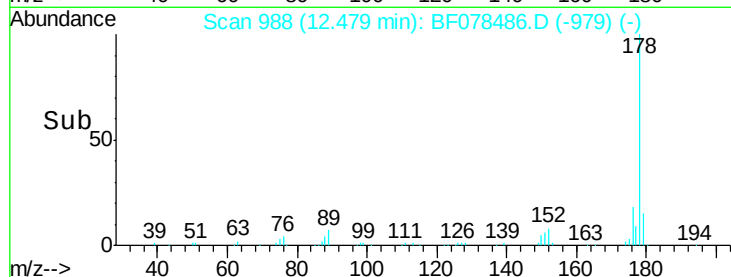
179 15.4 12.4 18.6



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



#74

Fluoranthene

Concen: 34.61 ng

RT: 13.87 min Scan# 1110

Delta R.T. -0.00 min

Lab File: BF078486.D

Acq: 14 Apr 2015 5:36

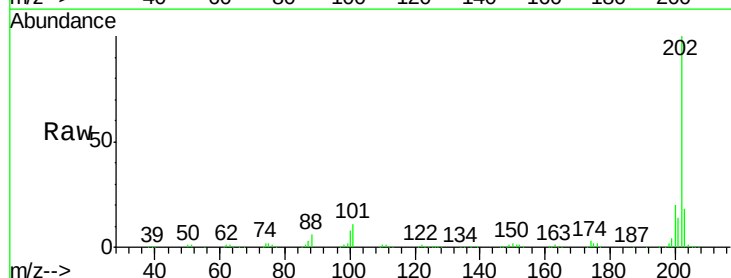
Tgt Ion:202 Resp: 359411

Ion Ratio Lower Upper

202 100

101 11.3 0.0 35.2

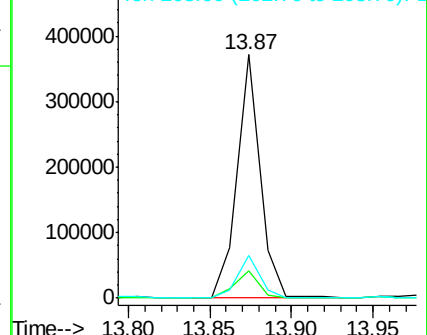
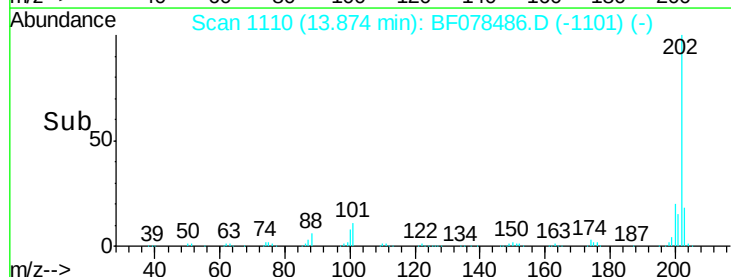
203 17.7 0.0 38.5

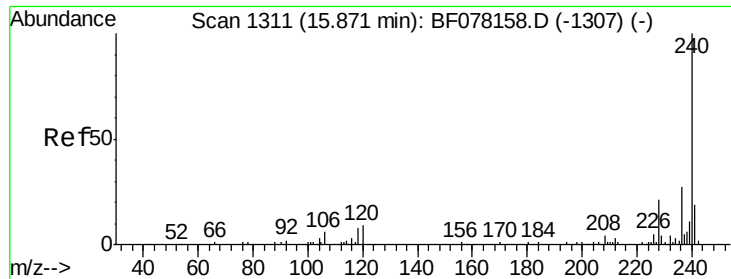


Abundance Ion 202.00 (201.70 to 202.70): E

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: 15.63 min Scan# 1264

Delta R.T. -0.01 min

Lab File: BF078486.D

Acq: 14 Apr 2015 5:36

Instrument :

BNA_F

ClientSampleId :

SB-10DDL

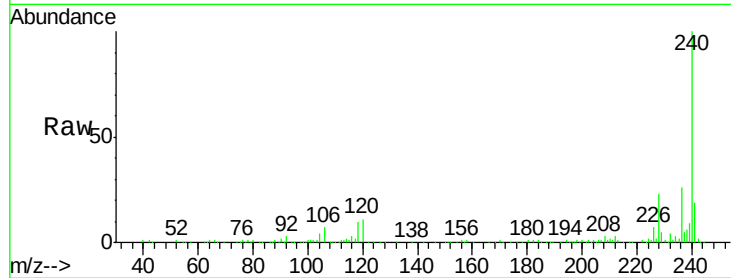
Tgt Ion:240 Resp: 182956

Ion Ratio Lower Upper

240 100

120 10.9 7.1 10.7#

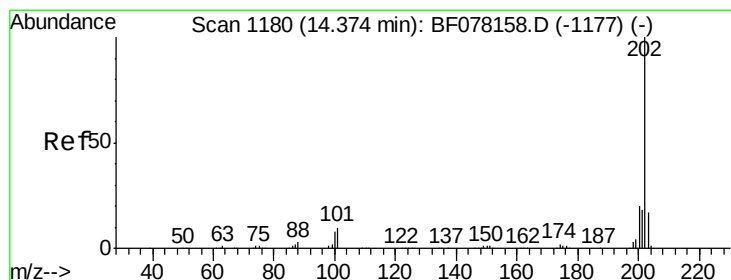
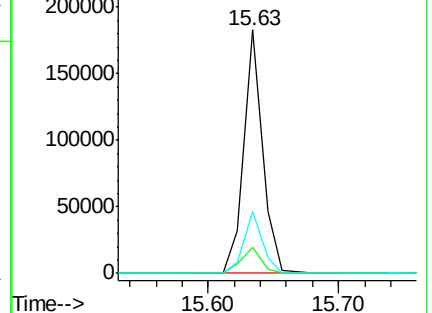
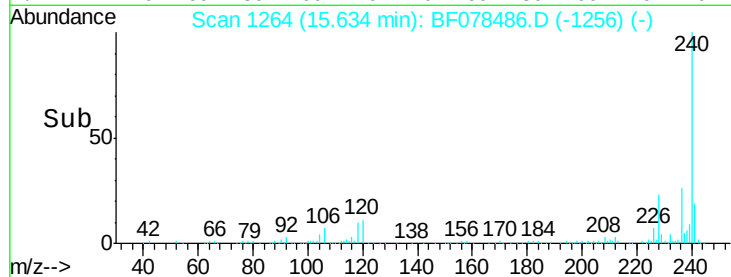
236 25.6 21.4 32.2



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: 35.29 ng

RT: 14.15 min Scan# 1134

Delta R.T. -0.00 min

Lab File: BF078486.D

Acq: 14 Apr 2015 5:36

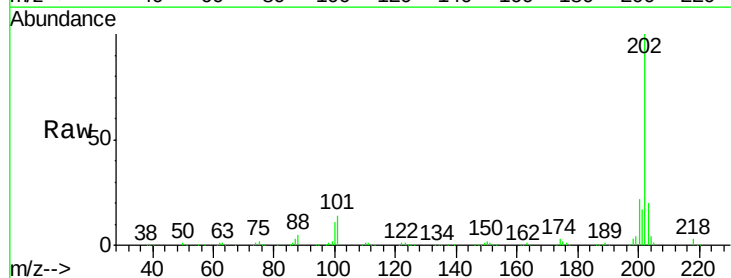
Tgt Ion:202 Resp: 405291

Ion Ratio Lower Upper

202 100

200 21.5 16.3 24.5

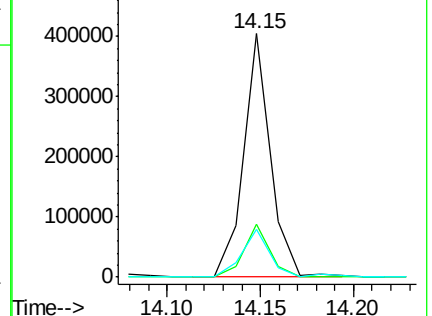
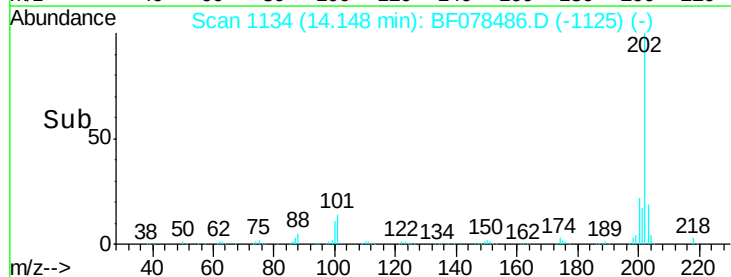
203 19.5 13.8 20.6

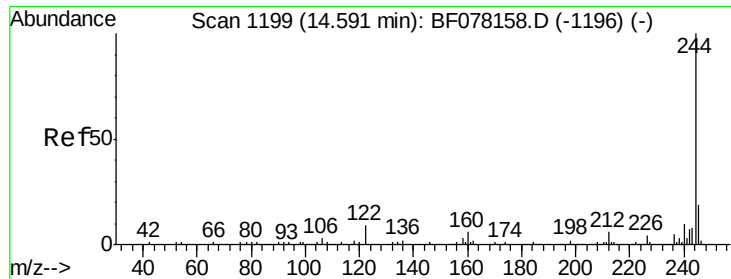


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 10.64 ng

RT: 14.37 min Scan# 1153

Delta R.T. -0.01 min

Lab File: BF078486.D

Acq: 14 Apr 2015 5:36

Instrument :

BNA_F

ClientSampleId :

SB-10DDL

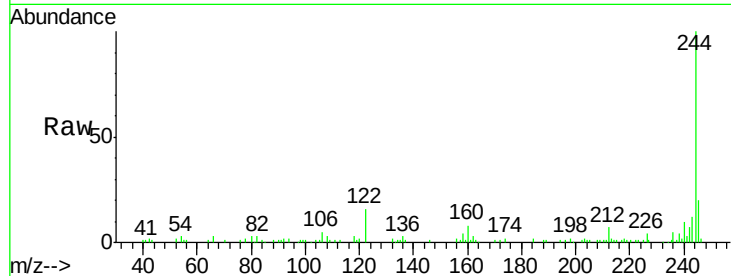
Tgt Ion:244 Resp: 86188

Ion Ratio Lower Upper

244 100

212 7.0 5.0 7.4

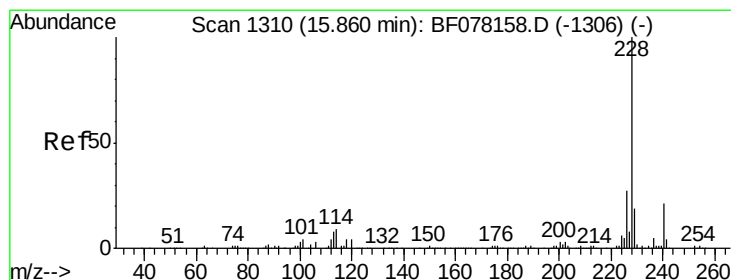
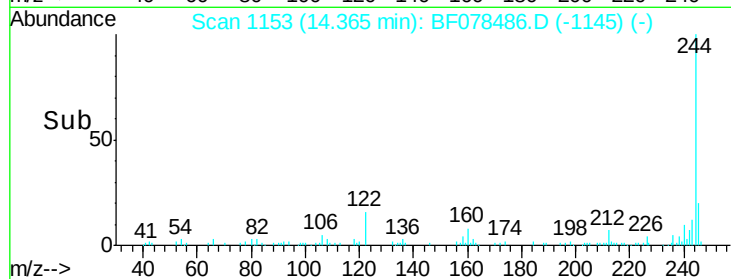
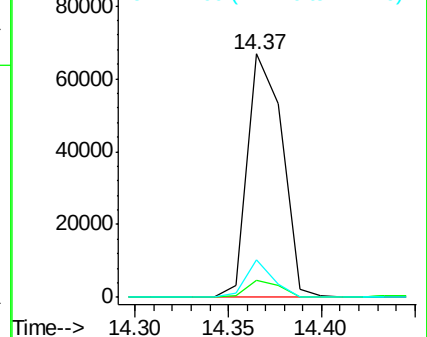
122 15.5 7.1 10.7#



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: 8.67 ng

RT: 15.67 min Scan# 1267

Delta R.T. 0.03 min

Lab File: BF078486.D

Acq: 14 Apr 2015 5:36

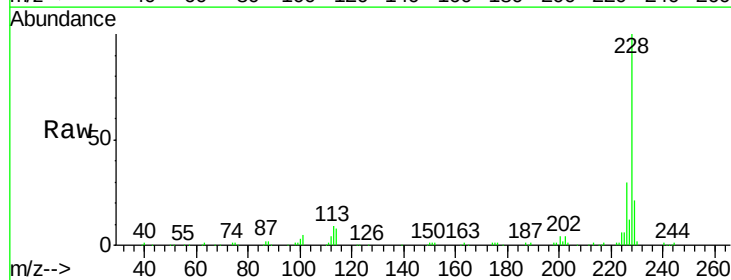
Tgt Ion:228 Resp: 94403

Ion Ratio Lower Upper

228 100

226 30.1 21.3 31.9

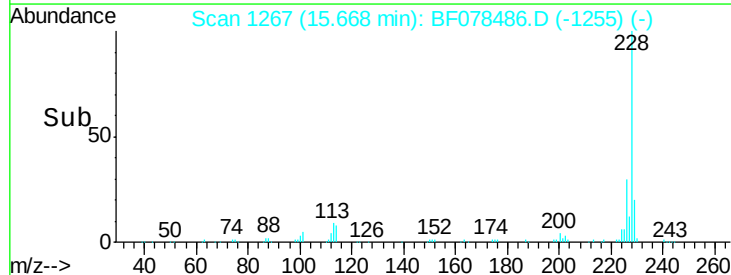
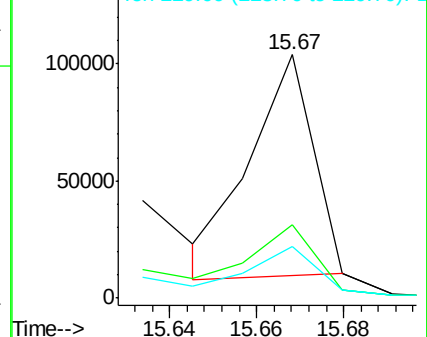
229 20.9 15.4 23.2

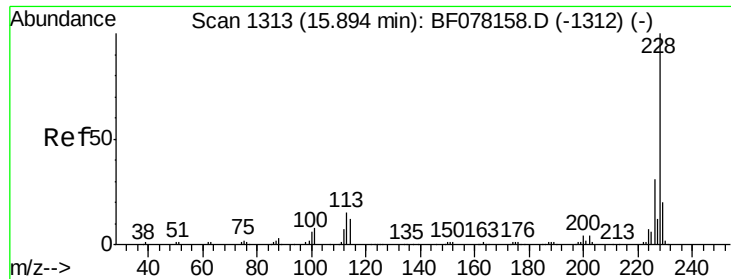


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 11.14 ng

RT: 15.67 min Scan# 1267

Delta R.T. -0.01 min

Lab File: BF078486.D

Acq: 14 Apr 2015 5:36

Instrument :

BNA_F

ClientSampleId :

SB-10DDL

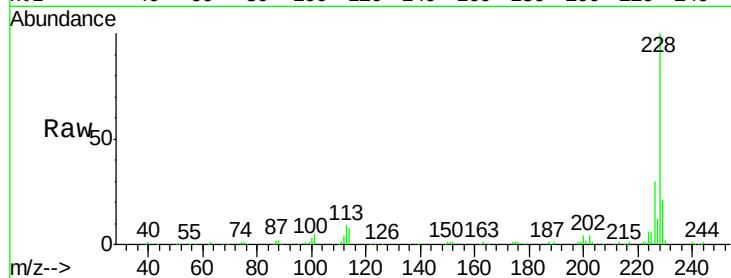
Tgt Ion: 228 Resp: 113890

Ion Ratio Lower Upper

228 100

226 30.1 24.2 36.4

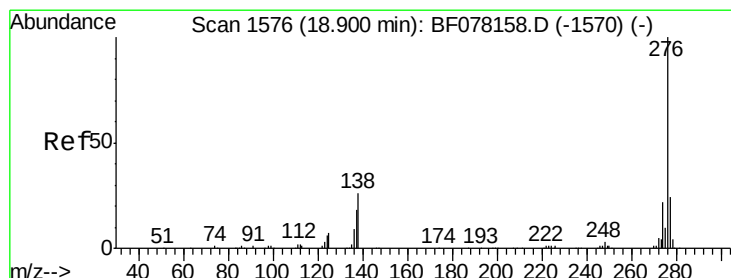
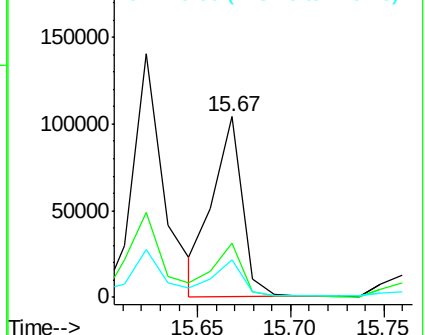
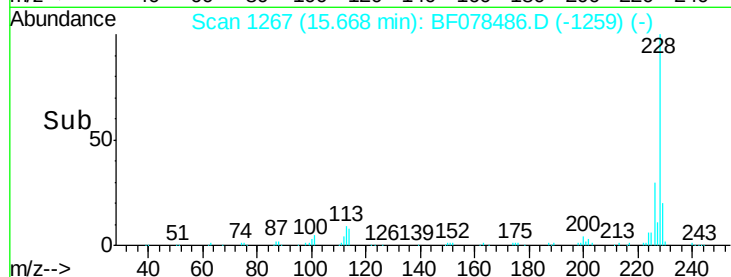
229 20.9 15.8 23.8



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: 6.05 ng

RT: 18.47 min Scan# 1512

Delta R.T. -0.03 min

Lab File: BF078486.D

Acq: 14 Apr 2015 5:36

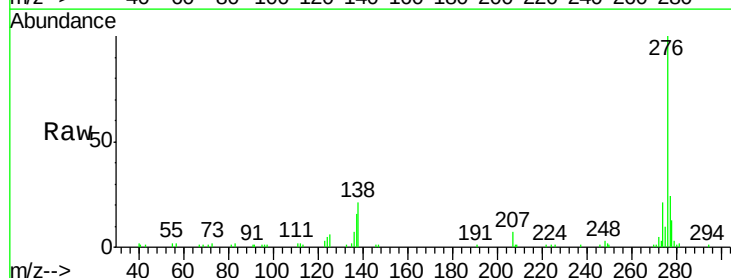
Tgt Ion: 276 Resp: 70239

Ion Ratio Lower Upper

276 100

138 23.6 16.9 25.3

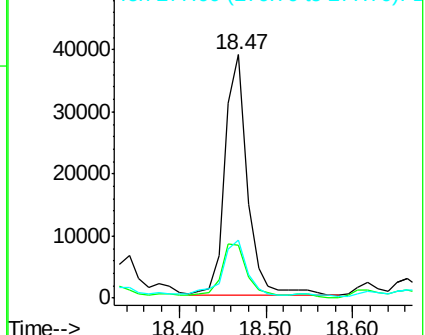
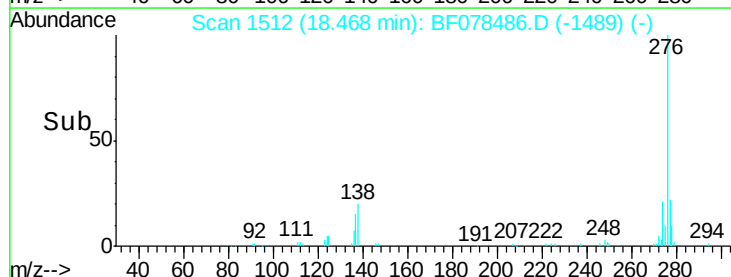
277 29.4 15.8 23.6#

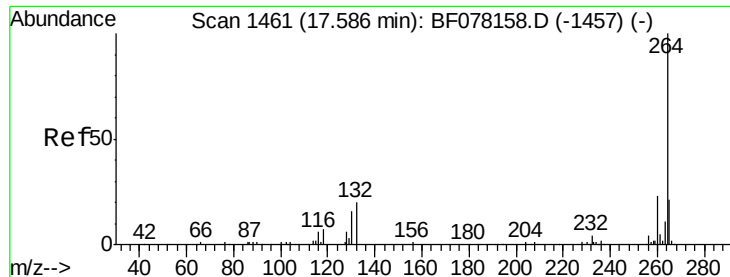


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



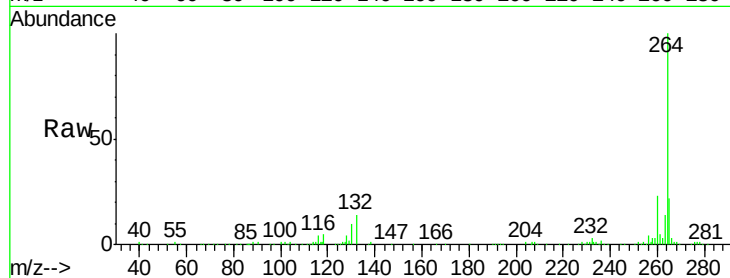


#86
Perylene-d12
Concen: 20.00 ng
RT: 17.28 min Scan# 1408
Delta R.T. -0.01 min
Lab File: BF078486.D
Acq: 14 Apr 2015 5:36

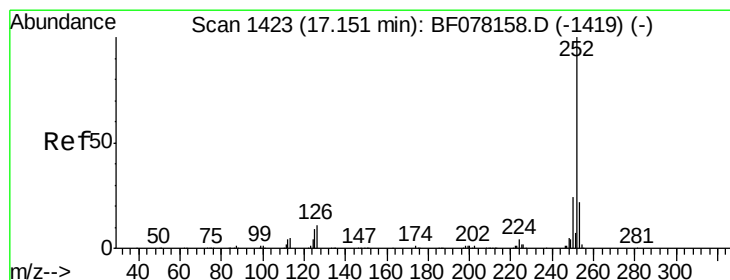
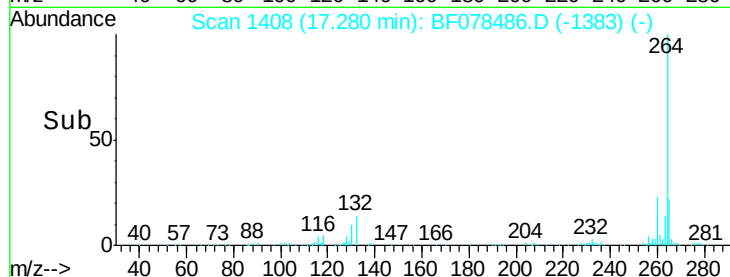
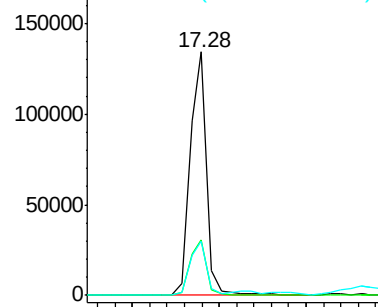
Instrument :
BNA_F
ClientSampleId :
SB-10DDL

Tgt Ion: 264 Resp: 177723

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.6	27.8
265	22.1	17.0	25.6



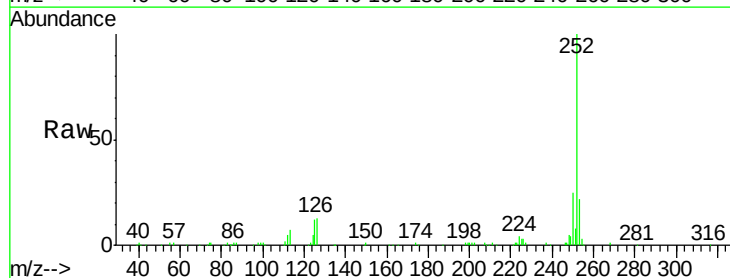
Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E



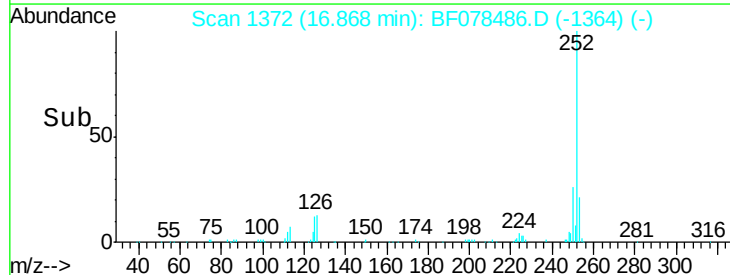
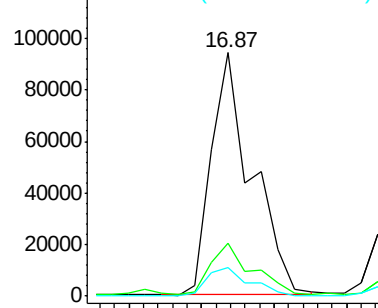
#87
Benzo(b)fluoranthene
Concen: 16.60 ng
RT: 16.87 min Scan# 1372
Delta R.T. -0.01 min
Lab File: BF078486.D
Acq: 14 Apr 2015 5:36

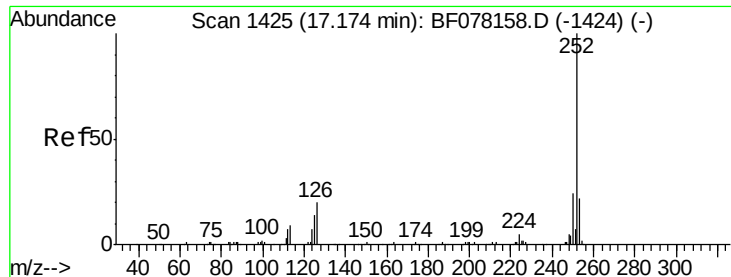
Tgt Ion: 252 Resp: 182280

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.2	25.8
125	12.0	7.0	10.4



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

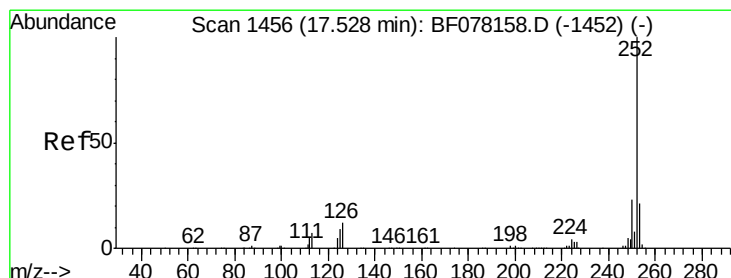
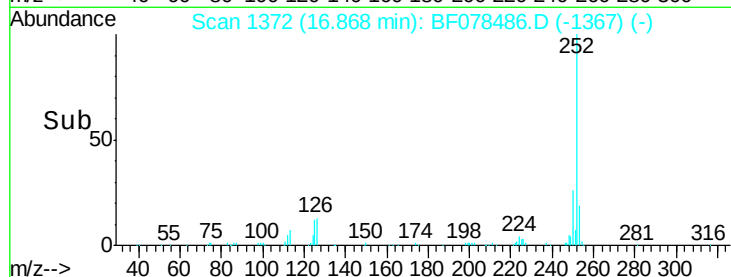
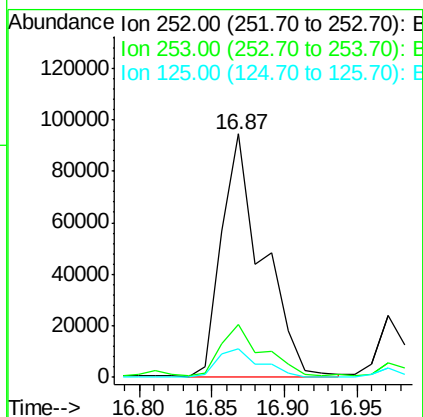
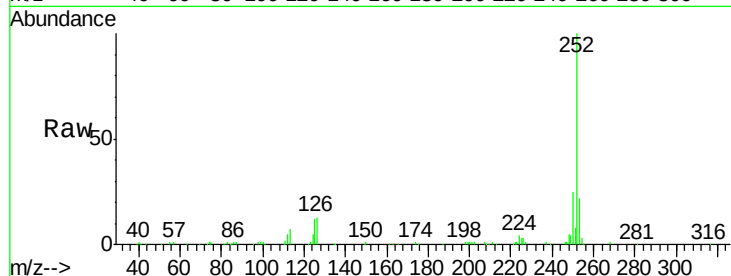




#88
Benzo(k)fluoranthene
Concen: 19.05 ng
RT: 16.87 min Scan# 1372
Delta R.T. -0.05 min
Lab File: BF078486.D
Acq: 14 Apr 2015 5:36

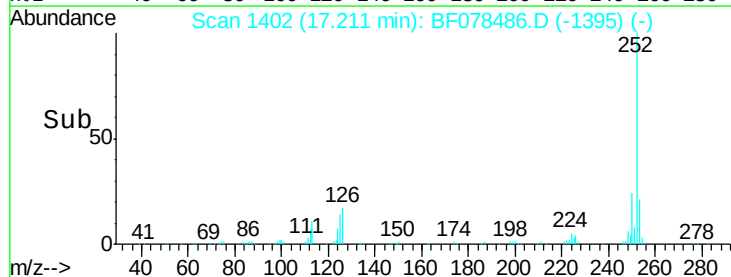
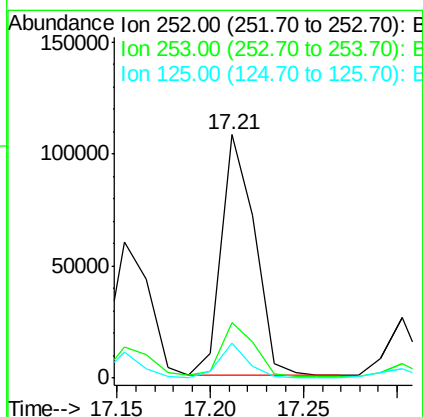
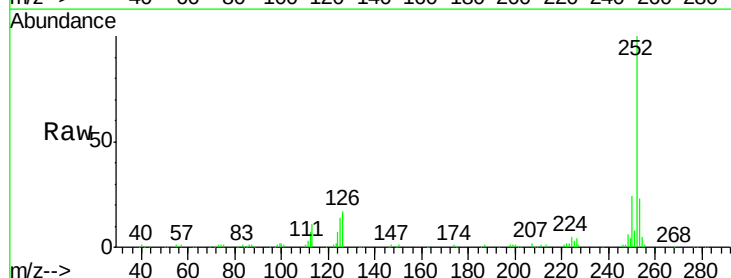
Instrument :
BNA_F
ClientSampleId :
SB-10DDL

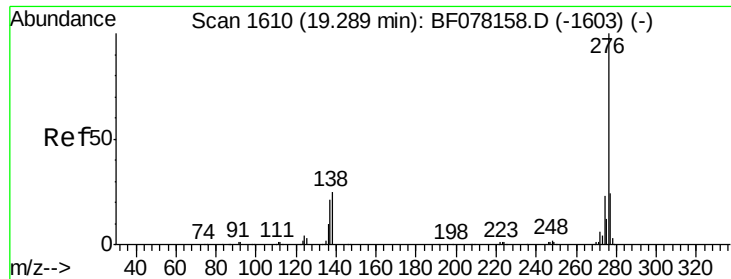
Tgt Ion:252 Resp: 185938
Ion Ratio Lower Upper
252 100
253 21.8 17.5 26.3
125 12.0 11.6 17.4



#89
Benzo(a)pyrene
Concen: 13.94 ng
RT: 17.21 min Scan# 1402
Delta R.T. -0.02 min
Lab File: BF078486.D
Acq: 14 Apr 2015 5:36

Tgt Ion:252 Resp: 133588
Ion Ratio Lower Upper
252 100
253 22.6 16.8 25.2
125 14.1 7.4 11.0#





#91
 Benzo(g,h,i)perylene
 Concen: 7.77 ng
 RT: 18.81 min Scan# 1542
 Delta R.T. -0.03 min
 Lab File: BF078486.D
 Acq: 14 Apr 2015 5:36

Instrument :
 BNA_F
 ClientSampleId :
 SB-10DDL

Tgt Ion:	276	Resp:	74733
Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.0	28.4
138	23.4	19.9	29.9

