

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040715\
 Data File : BF078327.D
 Acq On : 8 Apr 2015 7:30
 Operator : TP/IZ
 Sample : G1745-07DL 5X
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-3DDL

Quant Time: Apr 08 07:15:44 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 08 03:14:41 2015
 Response via : Initial Calibration

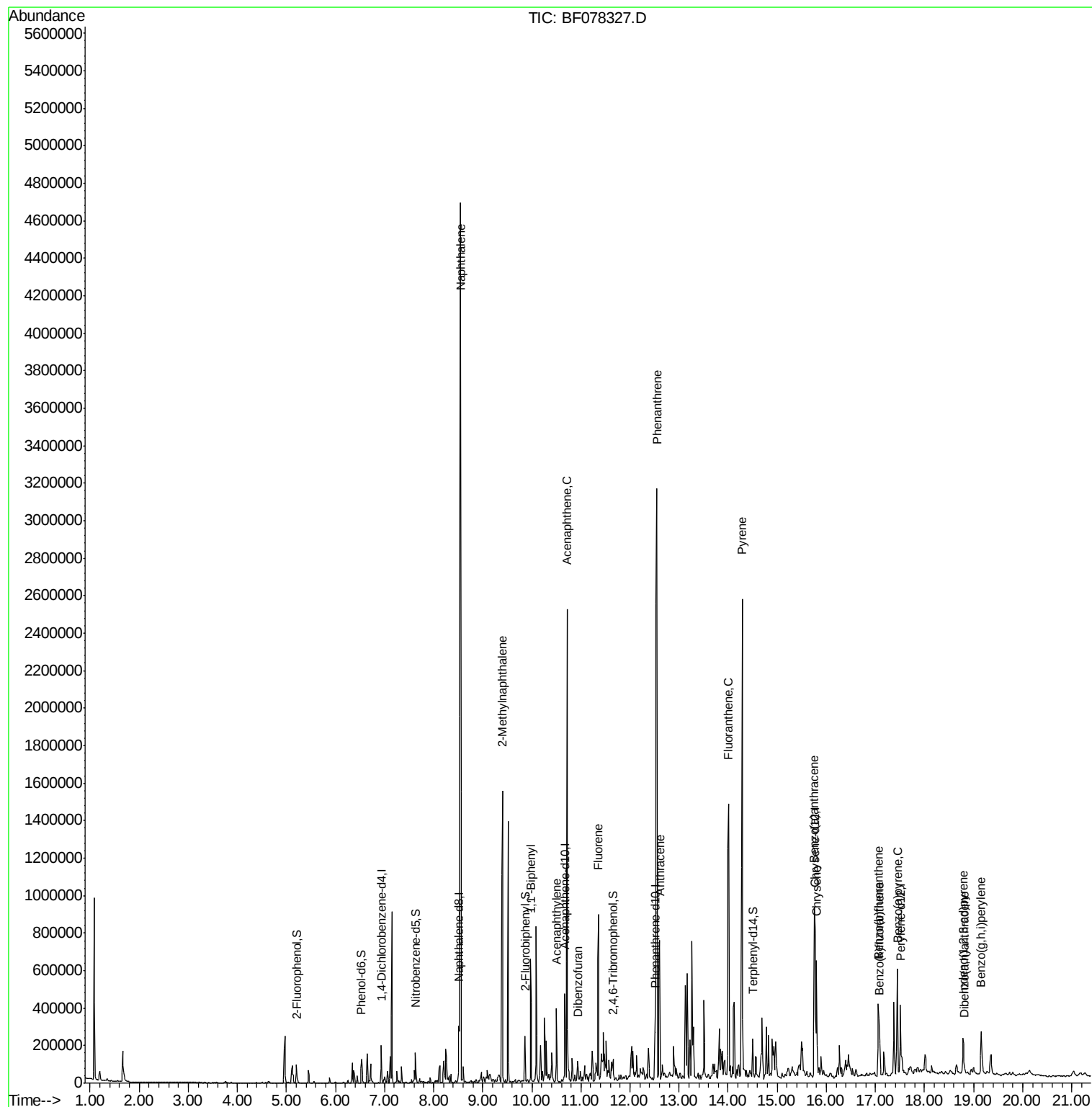
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.93	152	35815	20.00	ng	0.00
21) Naphthalene-d8	8.51	136	148277	20.00	ng	0.00
38) Acenaphthene-d10	10.67	164	75160	20.00	ng	0.00
63) Phenanthrene-d10	12.51	188	146604	20.00	ng	0.01
75) Chrysene-d12	15.77	240	157420	20.00	ng	0.00
86) Perylene-d12	17.51	264	162197	20.00	ng	0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.21	112	42244	19.45	ng	0.01
7) Phenol-d6	6.53	99	54179	19.90	ng	0.01
23) Nitrobenzene-d5	7.63	82	31972	13.07	ng	0.00
41) 2,4,6-Tribromophenol	11.65	330	12052	19.33	ng	0.00
44) 2-Fluorobiphenyl	9.86	172	76987	14.64	ng	0.00
78) Terphenyl-d14	14.50	244	90896	13.05	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.54	128	2752554	356.66	ng	95
37) 2-Methylnaphthalene	9.40	142	582674	111.20	ng	98
45) 1,1'-Biphenyl	9.97	154	277892	45.20	ng	97
48) Acenaphthylene	10.50	152	140438	17.98	ng	98
51) Acenaphthene	10.72	154	578250	131.49	ng	100
54) Dibenzofuran	10.93	168	24147	3.59	ng	# 92
57) Fluorene	11.36	166	376823	69.21	ng	100
70) Phenanthrene	12.55	178	1778698	209.75	ng	98
71) Anthracene	12.60	178	395698	47.35	ng	100
74) Fluoranthene	14.01	202	874302	97.76	ng	92
77) Pyrene	14.28	202	1200021	121.43	ng	97
80) Benzo(a)anthracene	15.76	228	365876m	39.06	ng	
82) Chrysene	15.80	228	265719	30.20	ng	99
85) Indeno(1,2,3-cd)pyrene	18.79	276	138328	13.85	ng	95
87) Benzo(b)fluoranthene	17.06	252	276285m	27.56	ng	
88) Benzo(k)fluoranthene	17.08	252	64049m	7.19	ng	
89) Benzo(a)pyrene	17.45	252	316216	36.15	ng	98
90) Dibenzo(a,h)anthracene	18.81	278	22821	2.61	ng	# 94
91) Benzo(a,h,i)perylene	19.15	276	191620m	21.82	ng	

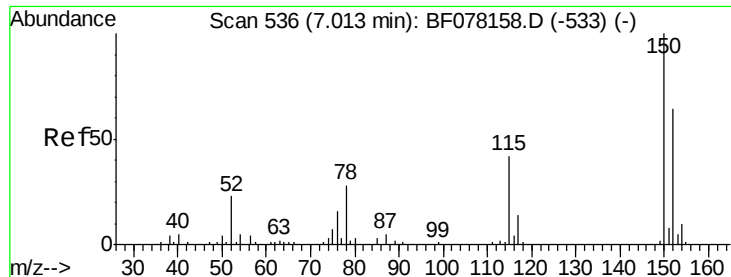
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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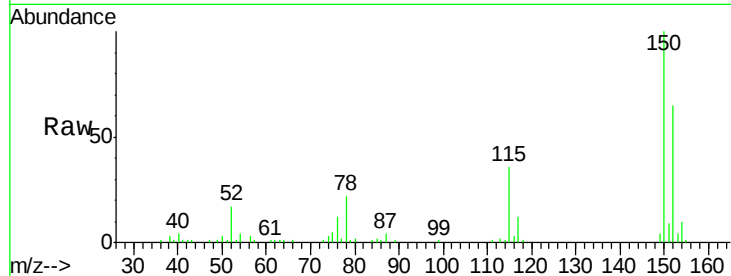


#1

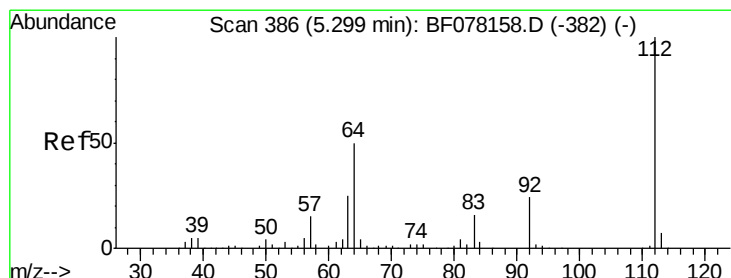
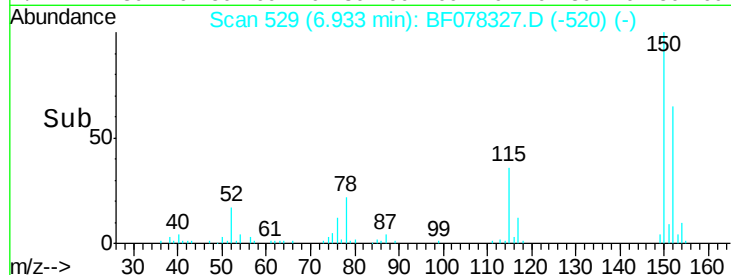
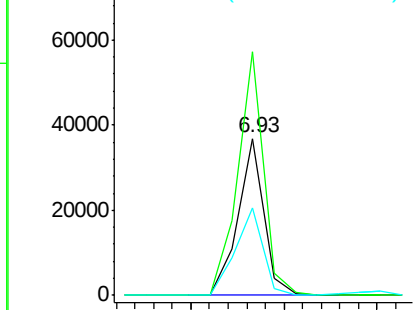
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.93 min Scan# 529
Delta R.T. 0.00 min
Lab File: BF078327.D
Acq: 8 Apr 2015 7:30

Instrument :
BNA_F
ClientSampleId :
SB-3DDL

Tot Ion:152 Resp: 35815
Ion Ratio Lower Upper
152 100
150 155.0 125.9 188.9
115 55.9 52.7 79.1



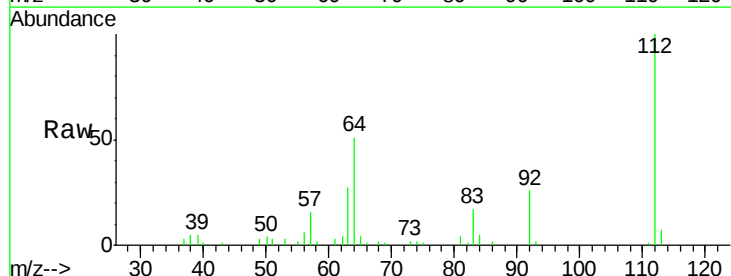
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



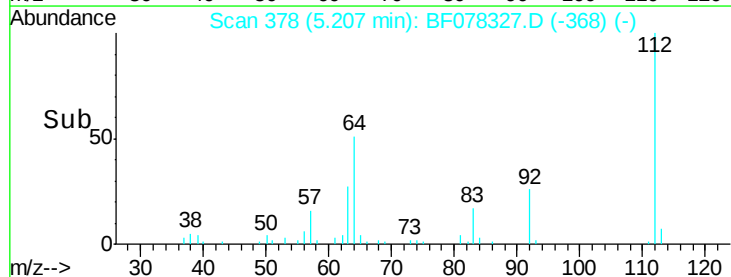
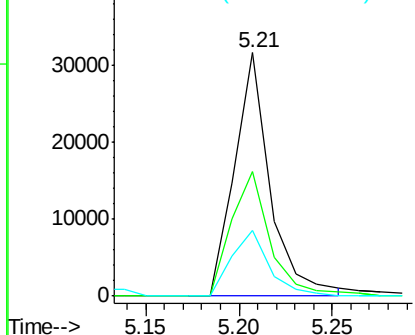
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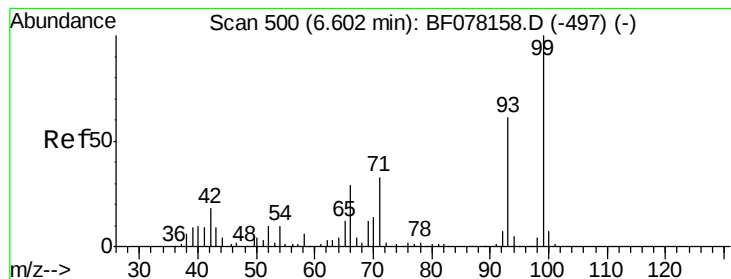
2-Fluorophenol
Concen: 19.45 ng
RT: 5.21 min Scan# 378
Delta R.T. 0.01 min
Lab File: BF078327.D
Acq: 8 Apr 2015 7:30

Tgt Ion:112 Resp: 42244
Ion Ratio Lower Upper
112 100
64 51.2 39.9 59.9
63 26.8 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: 19.90 ng

RT: 6.53 min Scan# 494

Delta R.T. 0.01 min

Lab File: BF078327.D

Acq: 8 Apr 2015 7:30

Instrument :

BNA_F

ClientSampleId :

SB-3DDL

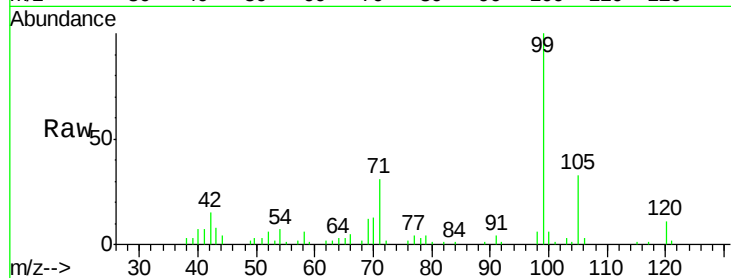
Tot Ion: 99 Resp: 54179

Ion Ratio Lower Upper

99 100

42 14.5 14.8 22.2#

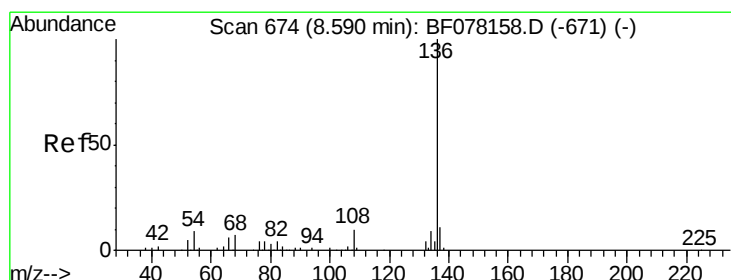
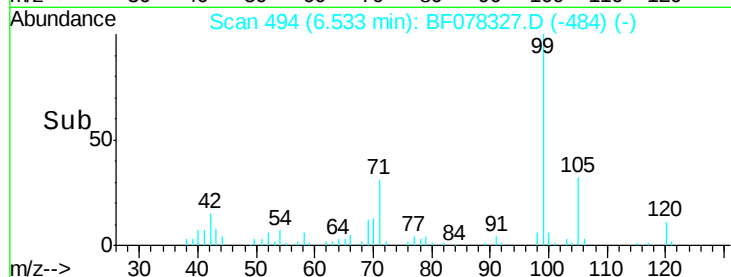
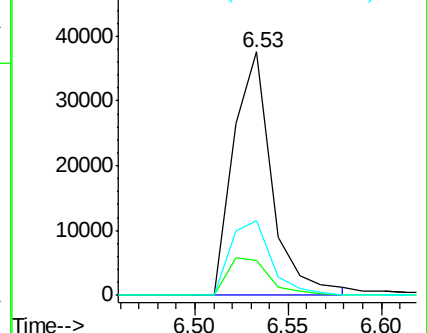
71 30.5 26.6 39.8



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: 8.51 min Scan# 667

Delta R.T. 0.00 min

Lab File: BF078327.D

Acq: 8 Apr 2015 7:30

Tgt Ion: 136 Resp: 148277

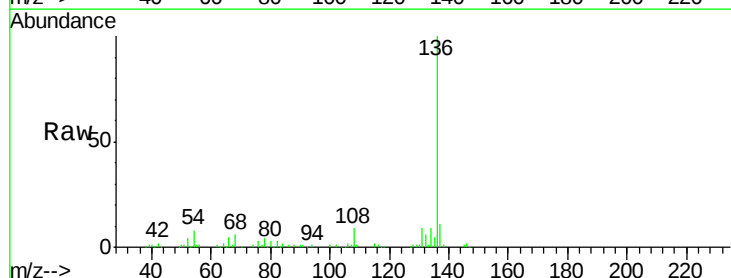
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.4

54 7.6 7.0 10.6

68 5.6 5.4 8.2

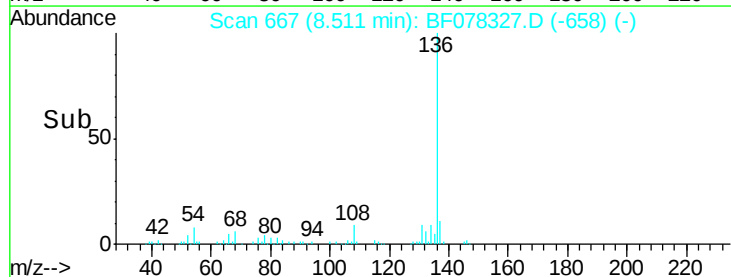
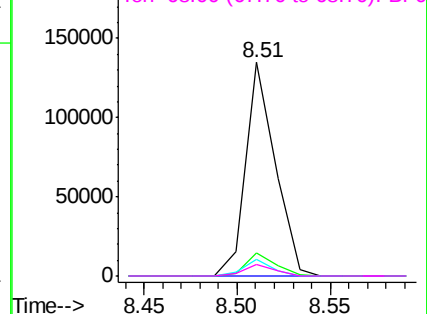


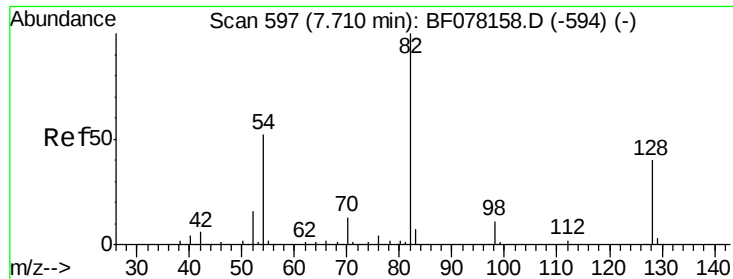
Abundance Ion 136.00 (135.70 to 136.70): E

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

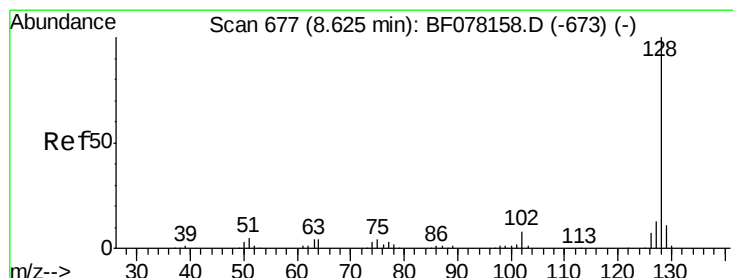
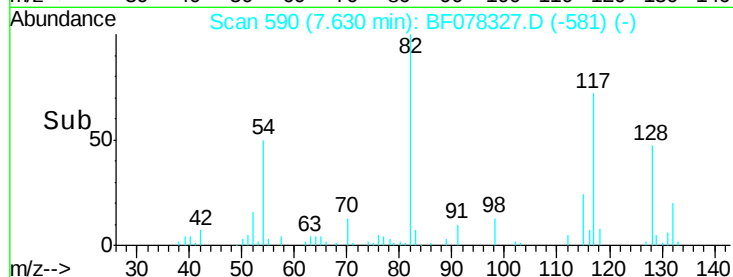
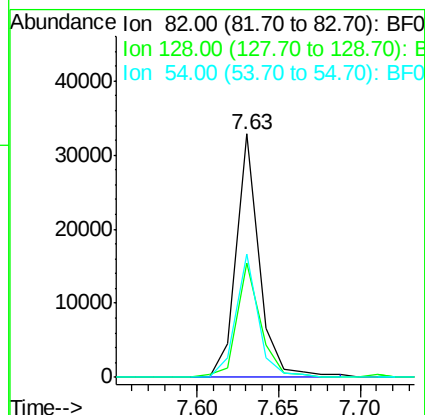
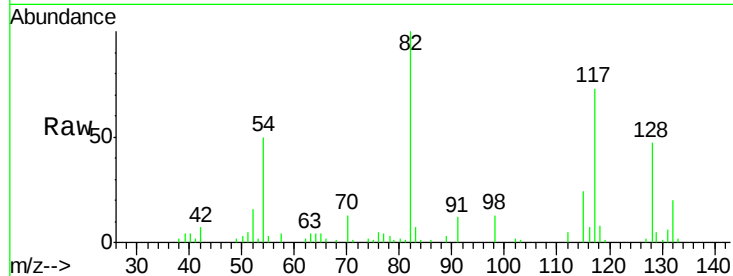




#23
Nitrobenzene-d5
Concen: 13.07 ng
RT: 7.63 min Scan# 590
Delta R.T. 0.00 min
Lab File: BF078327.D
Acq: 8 Apr 2015 7:30

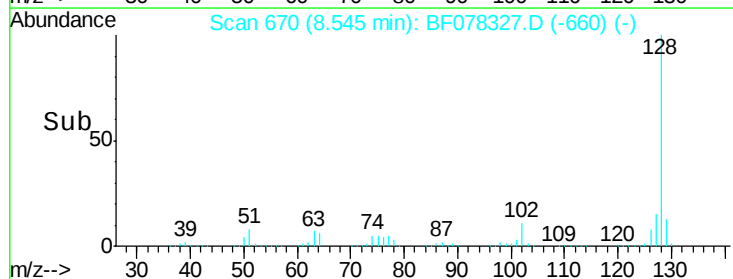
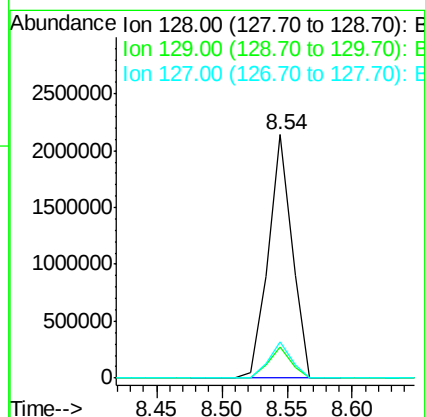
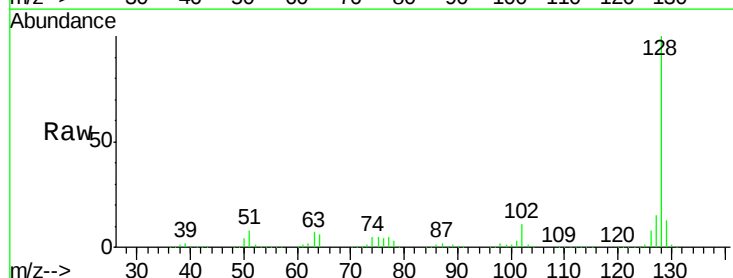
Instrument :
BNA_F
ClientSampleId :
SB-3DDL

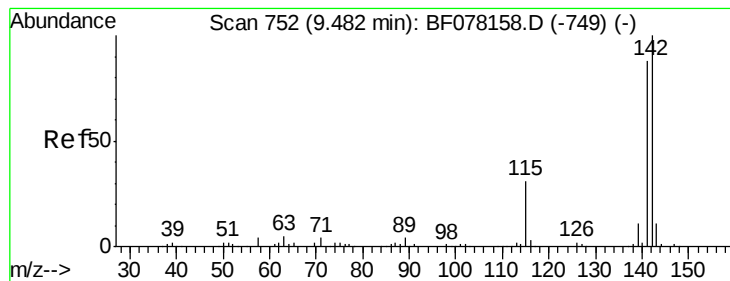
Tot Ion: 82 Resp: 31972
Ion Ratio Lower Upper
82 100
128 46.8 31.8 47.8
54 50.5 41.5 62.3



#31
Naphthalene
Concen: 356.66 ng
RT: 8.54 min Scan# 670
Delta R.T. 0.01 min
Lab File: BF078327.D
Acq: 8 Apr 2015 7:30

Tgt Ion: 128 Resp: 2752554
Ion Ratio Lower Upper
128 100
129 12.8 8.6 12.8
127 15.0 10.7 16.1





#37

2-Methylnaphthalene

Concen: 111.20 ng

RT: 9.40 min Scan# 745

Delta R.T. 0.01 min

Lab File: BF078327.D

Acq: 8 Apr 2015 7:30

Instrument :

BNA_F

ClientSampleId :

SB-3DDL

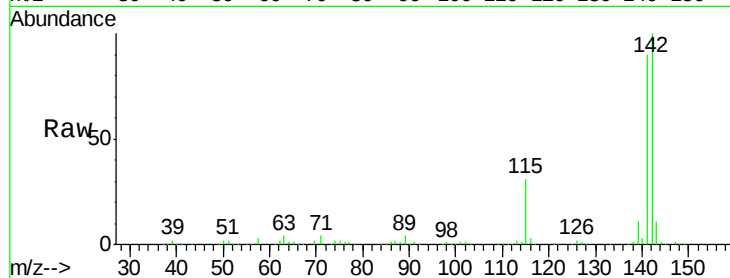
Tot Ion:142 Resp: 582674

Ion Ratio Lower Upper

142 100

141 89.8 70.3 105.5

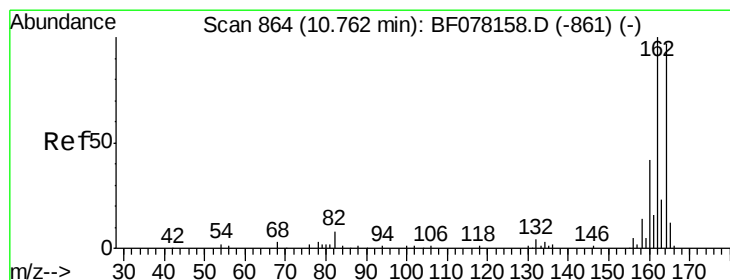
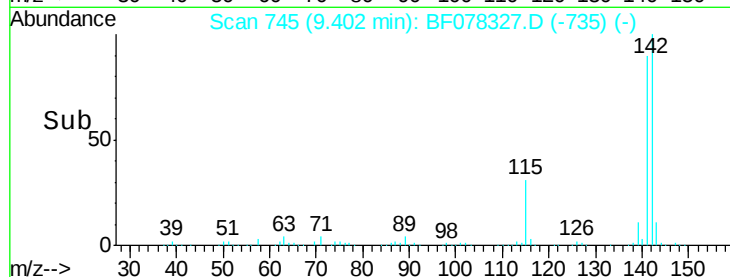
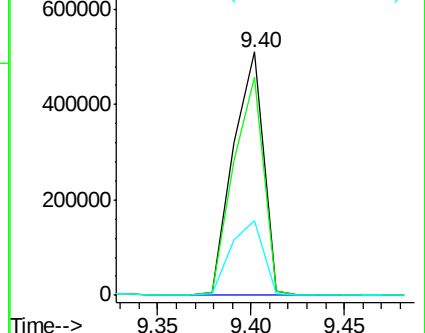
115 30.9 24.6 37.0



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: 20.00 ng

RT: 10.67 min Scan# 856

Delta R.T. 0.00 min

Lab File: BF078327.D

Acq: 8 Apr 2015 7:30

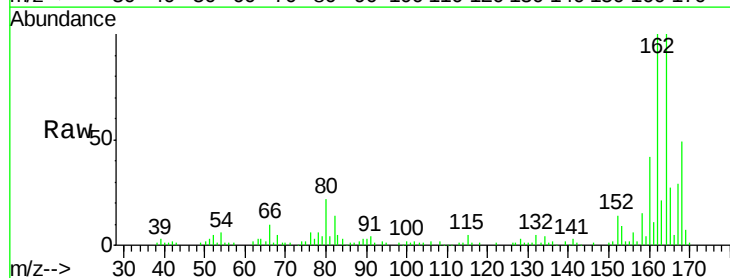
Tgt Ion:164 Resp: 75160

Ion Ratio Lower Upper

164 100

162 100.2 82.2 123.2

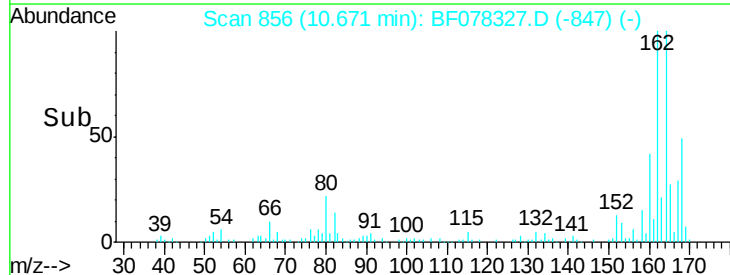
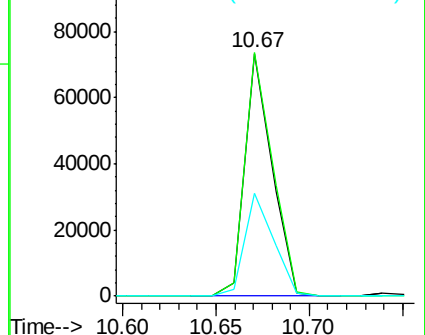
160 42.4 34.7 52.1

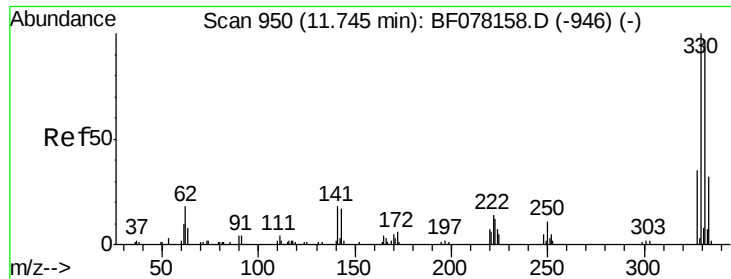


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

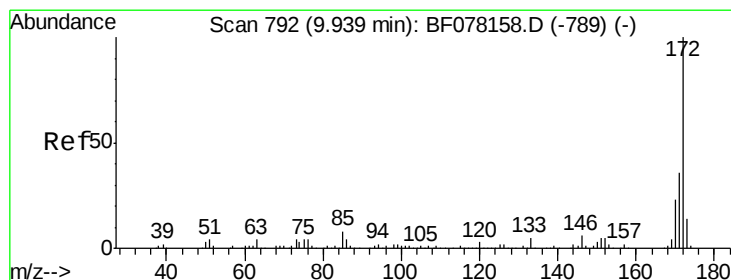
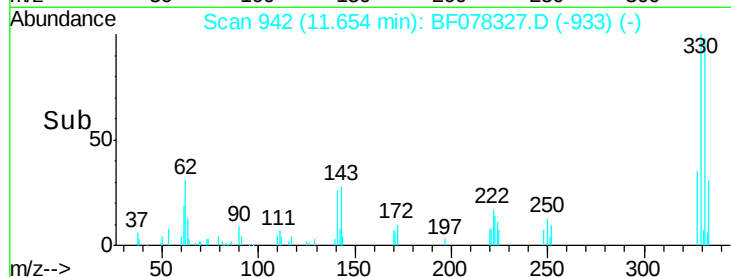
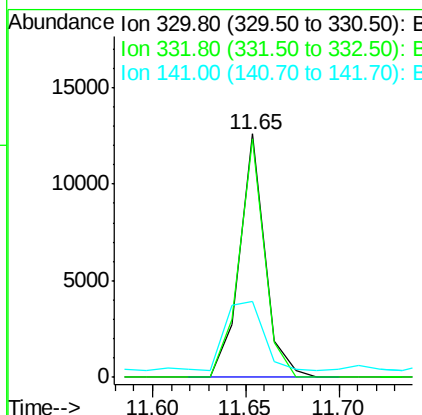
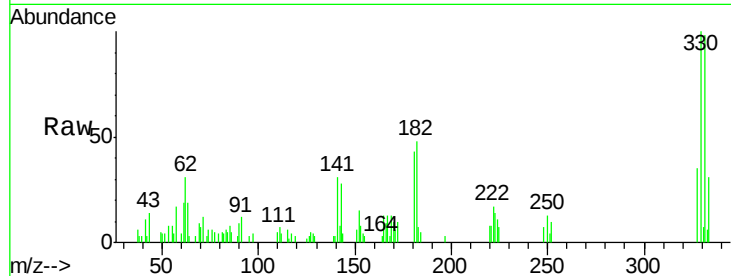




#41
 2,4,6-Tribromophenol
 Concen: 19.33 ng
 RT: 11.65 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: BF078327.D
 Acq: 8 Apr 2015 7:30

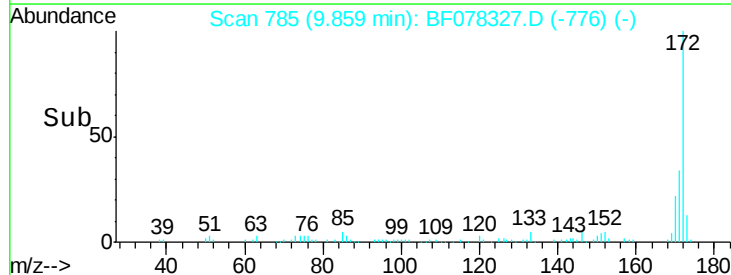
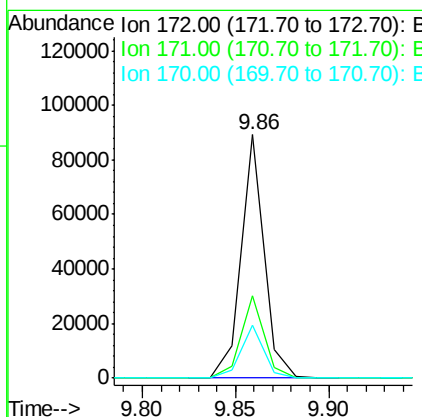
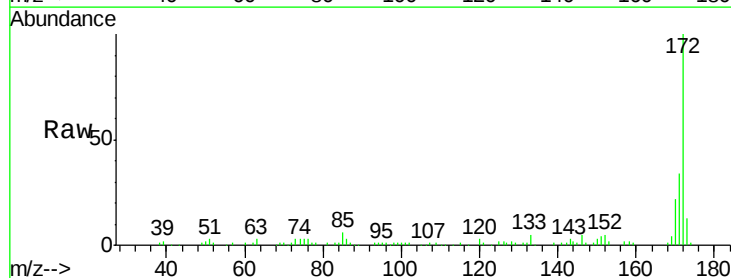
Instrument :
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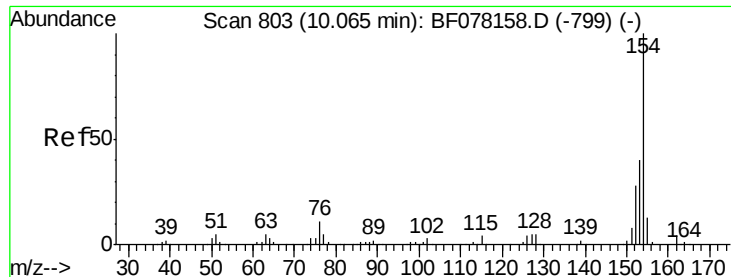
Tot Ion	Ratio	Lower	Upper
330	100		
332	97.6	78.6	117.8
141	41.9	31.2	46.8



#44
 2-Fluorobiphenyl
 Concen: 14.64 ng
 RT: 9.86 min Scan# 785
 Delta R.T. 0.00 min
 Lab File: BF078327.D
 Acq: 8 Apr 2015 7:30

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.7	28.6	42.8
170	21.9	18.5	27.7

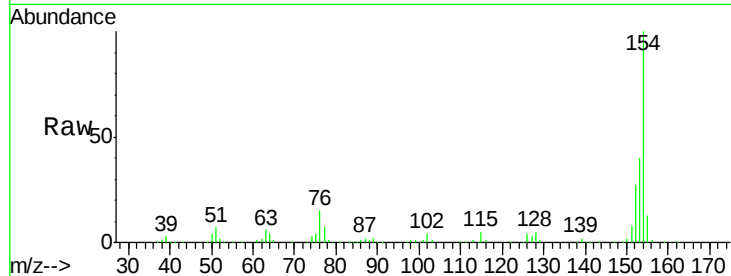




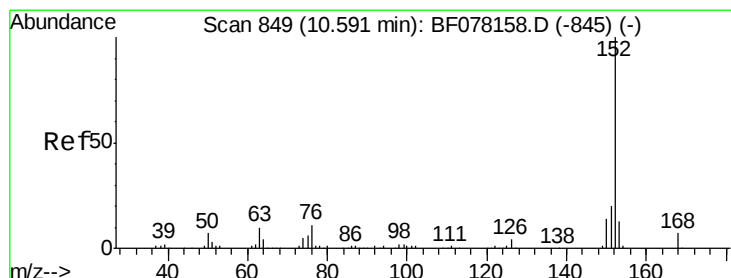
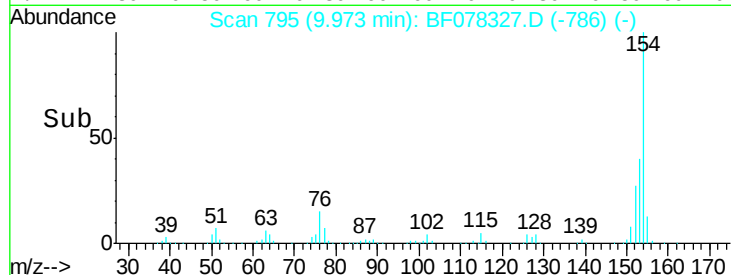
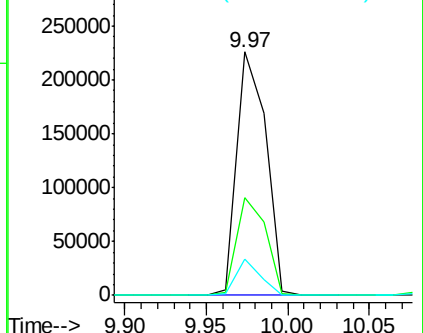
#45
1,1'-Biphenyl
Concen: 45.20 ng
RT: 9.97 min Scan# 795
Delta R.T. 0.00 min
Lab File: BF078327.D
Acq: 8 Apr 2015 7:30

Instrument :
BNA_F
ClientSampleId :
SB-3DDL

Tot Ion:154 Resp: 277892
Ion Ratio Lower Upper
154 100
153 40.0 20.0 60.0
76 15.1 0.0 30.6

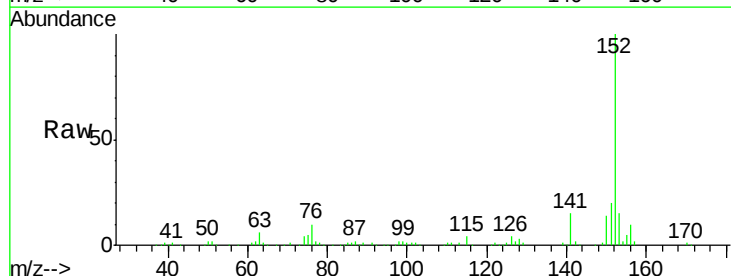


Abundance Ion 154.00 (153.70 to 154.70): E
Ion 153.00 (152.70 to 153.70): E
Ion 76.00 (75.70 to 76.70): BF0

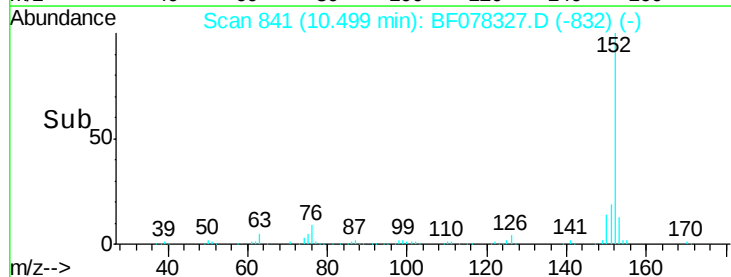
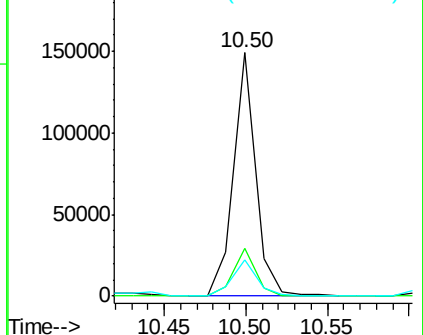


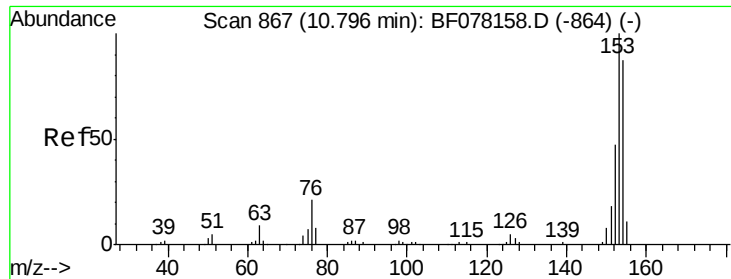
#48
Acenaphthylene
Concen: 17.98 ng
RT: 10.50 min Scan# 841
Delta R.T. 0.00 min
Lab File: BF078327.D
Acq: 8 Apr 2015 7:30

Tgt Ion:152 Resp: 140438
Ion Ratio Lower Upper
152 100
151 19.6 15.7 23.5
153 14.9 10.2 15.2



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#51

Acenaphthene

Concen: 131.49 ng

RT: 10.72 min Scan# 860

Delta R.T. 0.00 min

Lab File: BF078327.D

Acq: 8 Apr 2015 7:30

Instrument :

BNA_F

ClientSampleId :

SB-3DDL

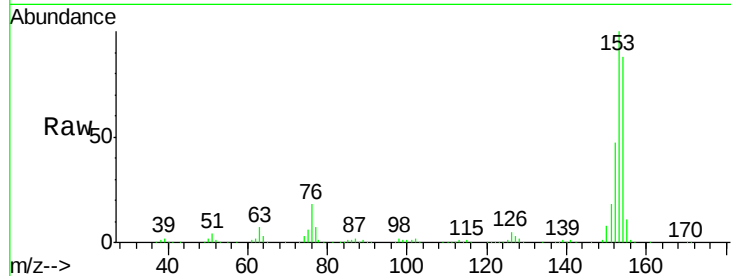
Tot Ion:154 Resp: 578250

Ion Ratio Lower Upper

154 100

153 113.7 91.4 137.2

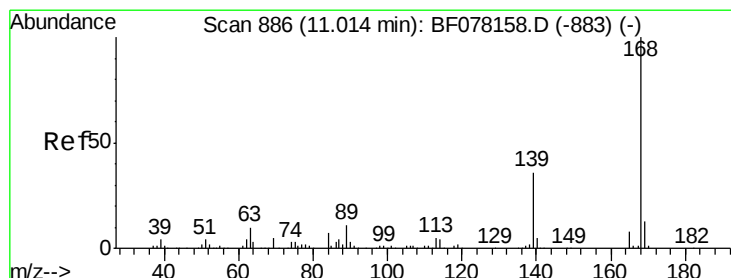
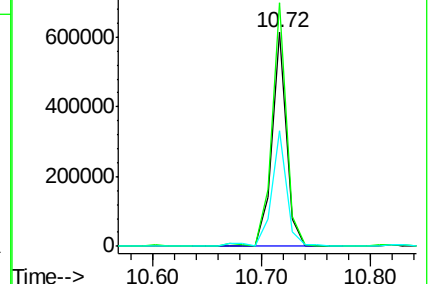
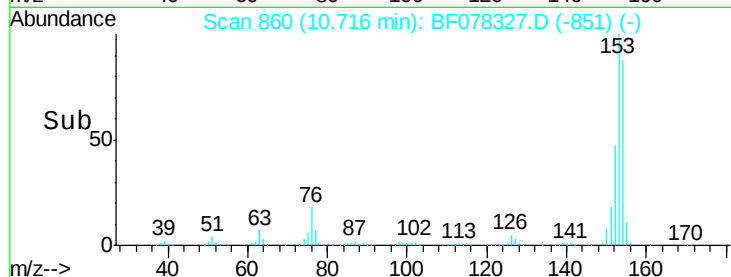
152 53.9 43.0 64.6



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: 3.59 ng

RT: 10.93 min Scan# 879

Delta R.T. 0.00 min

Lab File: BF078327.D

Acq: 8 Apr 2015 7:30

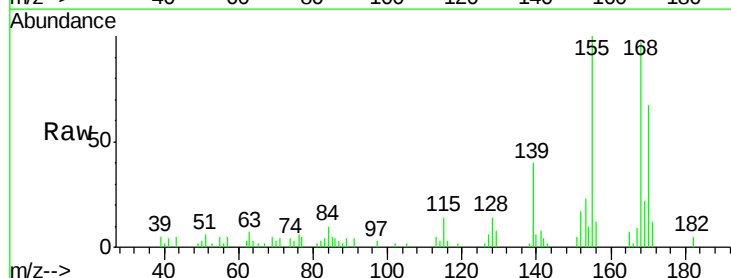
Tgt Ion:168 Resp: 24147

Ion Ratio Lower Upper

168 100

139 40.9 31.0 46.4

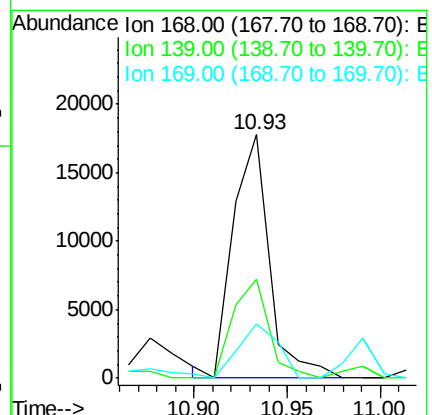
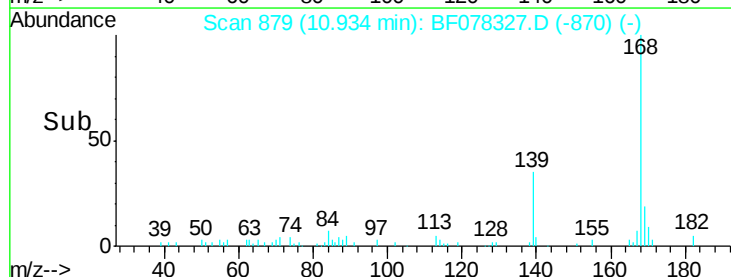
169 22.3 10.7 16.1#

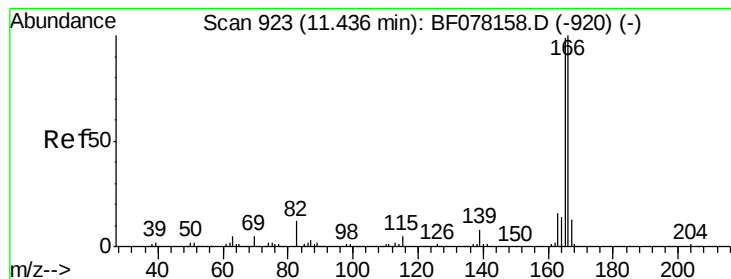


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 69.21 ng

RT: 11.36 min Scan# 916

Delta R.T. 0.00 min

Lab File: BF078327.D

Acq: 8 Apr 2015 7:30

Instrument :

BNA_F

ClientSampleId :

SB-3DDL

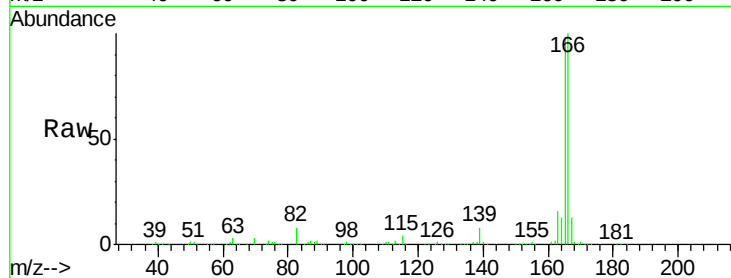
Tot Ion:166 Resp: 376823

Ion Ratio Lower Upper

166 100

165 98.3 78.9 118.3

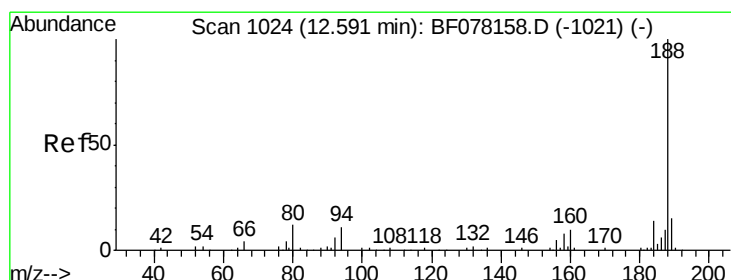
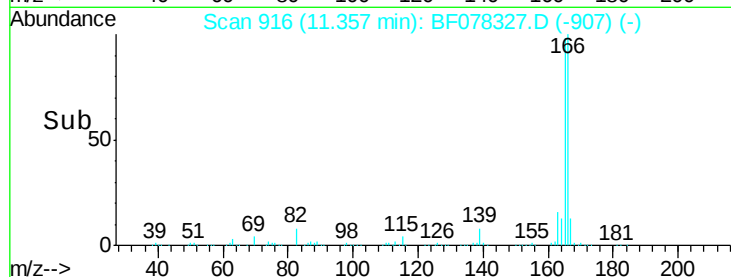
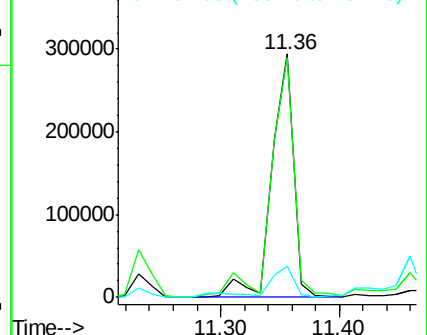
167 12.9 10.7 16.1



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: 12.51 min Scan# 1017

Delta R.T. 0.01 min

Lab File: BF078327.D

Acq: 8 Apr 2015 7:30

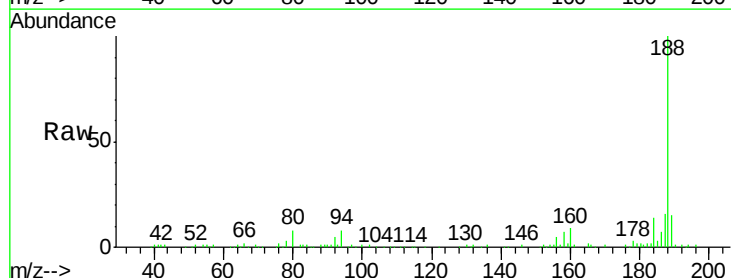
Tgt Ion:188 Resp: 146604

Ion Ratio Lower Upper

188 100

94 7.5 9.0 13.4#

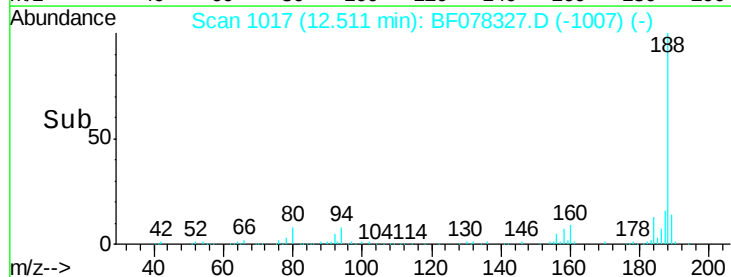
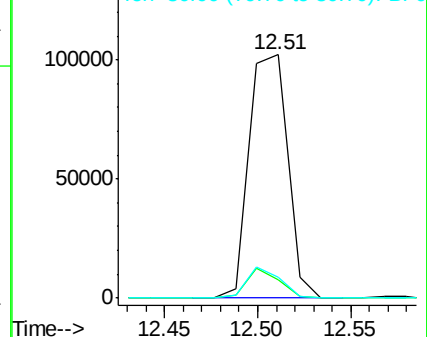
80 8.4 9.5 14.3#

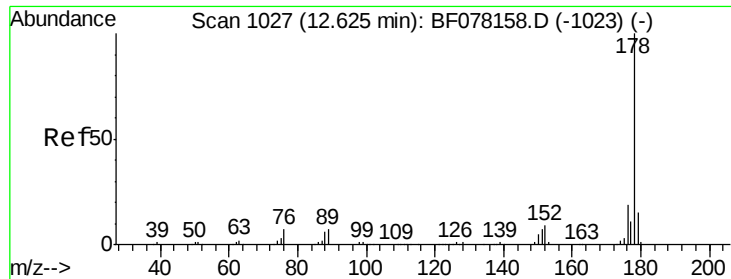


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

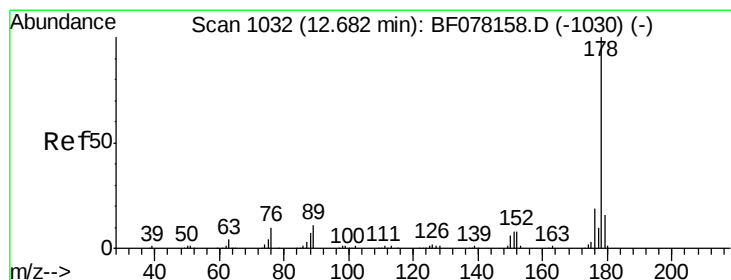
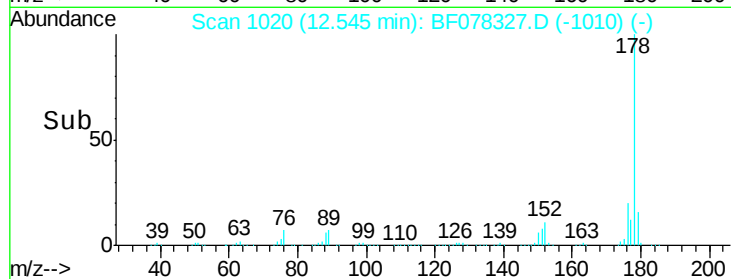
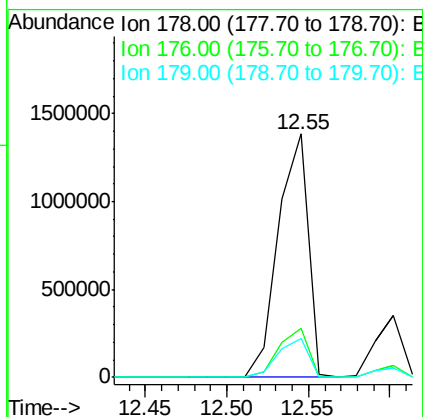
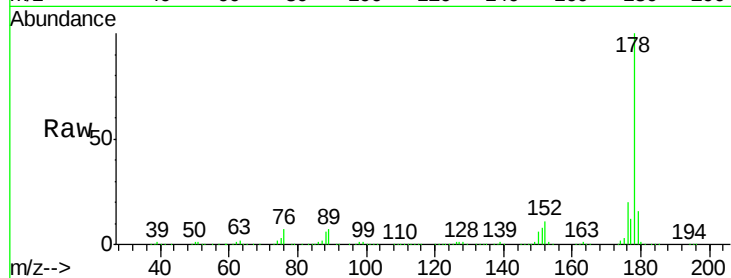




#70
Phenanthrene
Concen: 209.75 ng
RT: 12.55 min Scan# 1020
Delta R.T. 0.01 min
Lab File: BF078327.D
Acq: 8 Apr 2015 7:30

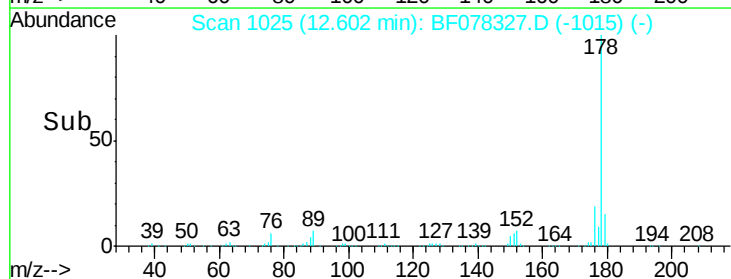
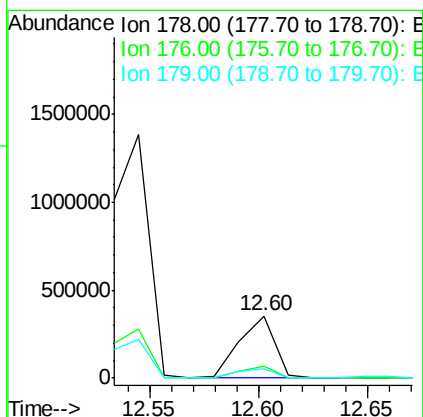
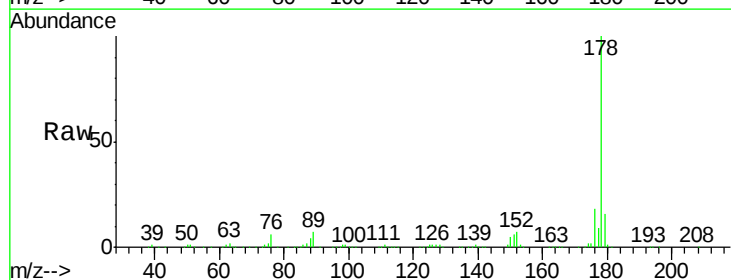
Instrument :
BNA_F
ClientSampleId :
SB-3DDL

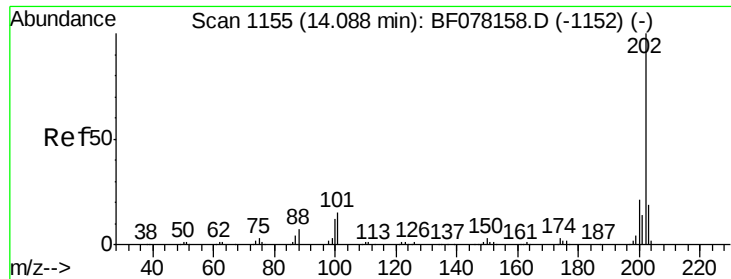
Tot Ion:178 Resp: 1778698
Ion Ratio Lower Upper
178 100
176 20.3 15.4 23.0
179 15.8 12.2 18.2



#71
Anthracene
Concen: 47.35 ng
RT: 12.60 min Scan# 1025
Delta R.T. 0.01 min
Lab File: BF078327.D
Acq: 8 Apr 2015 7:30

Tgt Ion:178 Resp: 395698
Ion Ratio Lower Upper
178 100
176 18.5 14.8 22.2
179 15.7 12.4 18.6





#74

Fluoranthene

Concen: 97.76 ng

RT: 14.01 min Scan# 1148

Delta R.T. 0.01 min

Lab File: BF078327.D

Acq: 8 Apr 2015 7:30

Instrument :

BNA_F

ClientSampleId :

SB-3DDL

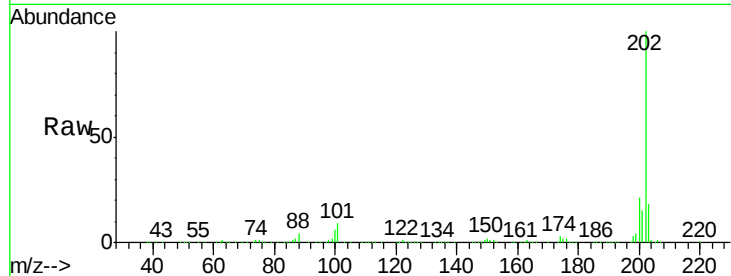
Tot Ion:202 Resp: 874302

Ion Ratio Lower Upper

202 100

101 8.6 0.0 35.2

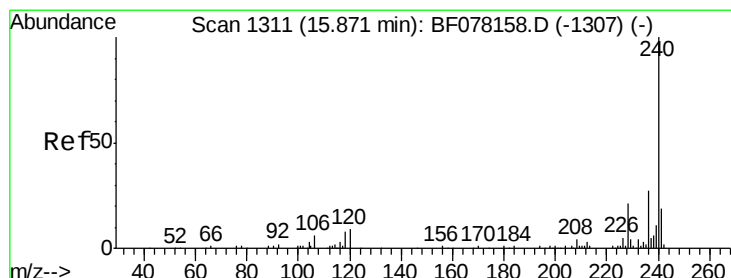
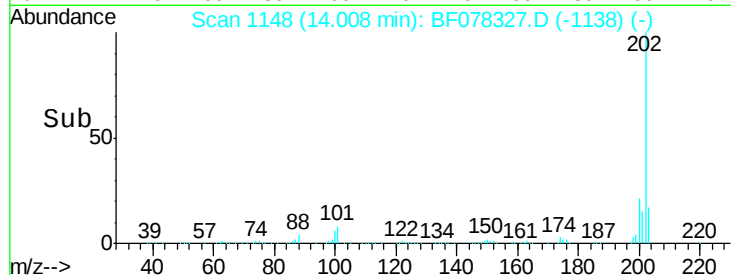
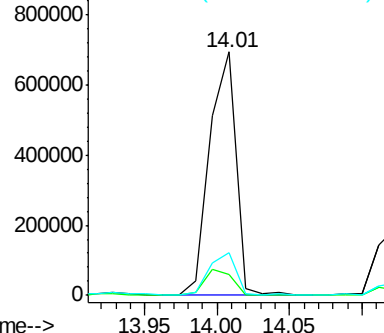
203 17.5 0.0 38.5



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: 15.77 min Scan# 1302

Delta R.T. 0.00 min

Lab File: BF078327.D

Acq: 8 Apr 2015 7:30

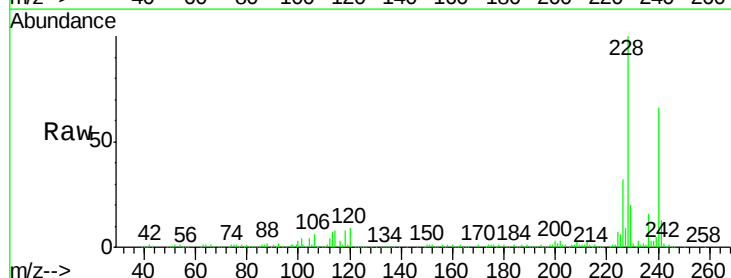
Tgt Ion:240 Resp: 157420

Ion Ratio Lower Upper

240 100

120 14.5 7.1 10.7#

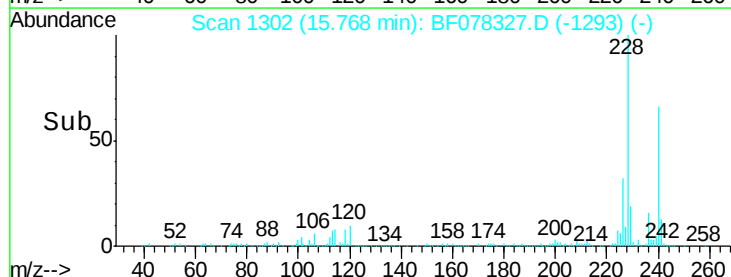
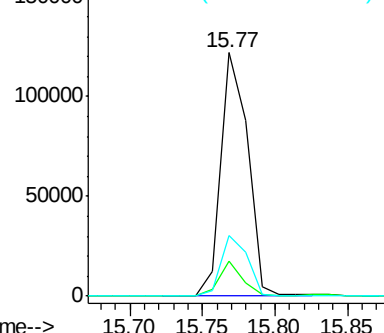
236 25.1 21.4 32.2

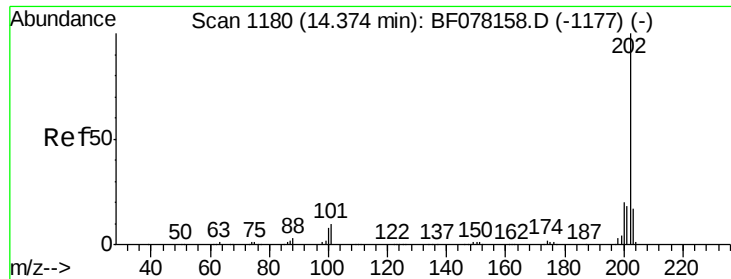


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 121.43 ng

RT: 14.28 min Scan# 1172

Delta R.T. 0.01 min

Lab File: BF078327.D

Acq: 8 Apr 2015 7:30

Instrument :

BNA_F

ClientSampleId :

SB-3DDL

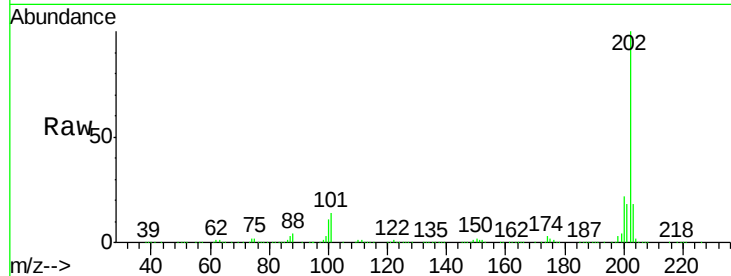
Tot Ion:202 Resp: 1200021

Ion Ratio Lower Upper

202 100

200 21.7 16.3 24.5

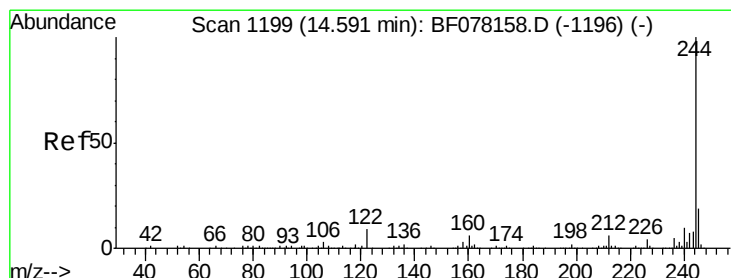
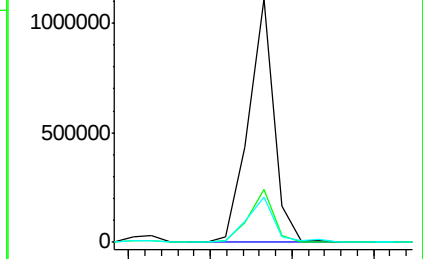
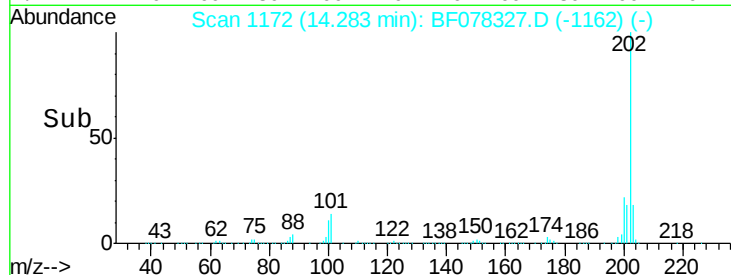
203 18.5 13.8 20.6



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: 13.05 ng

RT: 14.50 min Scan# 1191

Delta R.T. 0.00 min

Lab File: BF078327.D

Acq: 8 Apr 2015 7:30

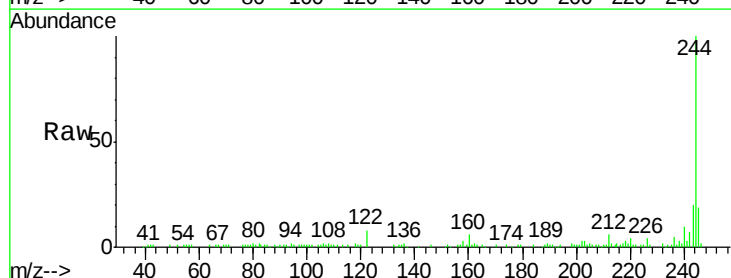
Tgt Ion:244 Resp: 90896

Ion Ratio Lower Upper

244 100

212 5.9 5.0 7.4

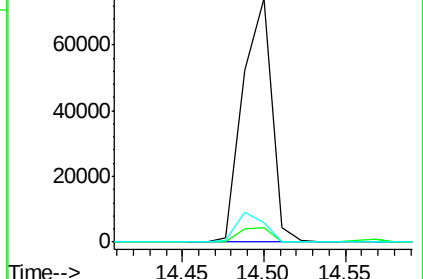
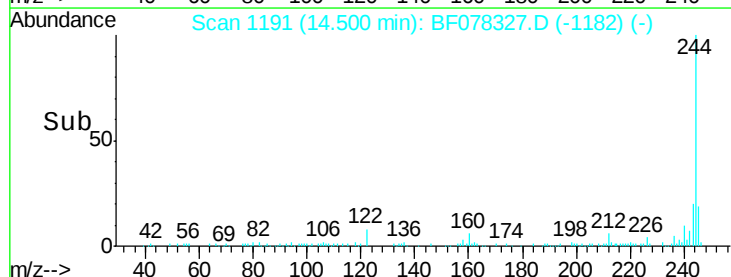
122 8.3 7.1 10.7

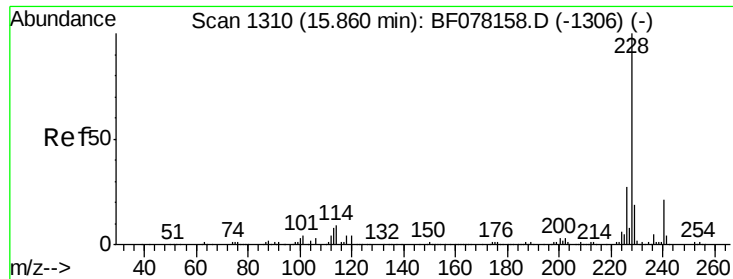


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

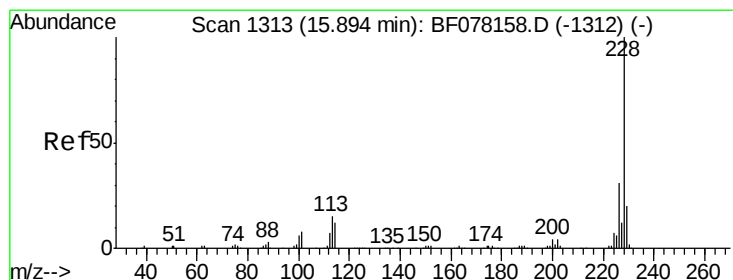
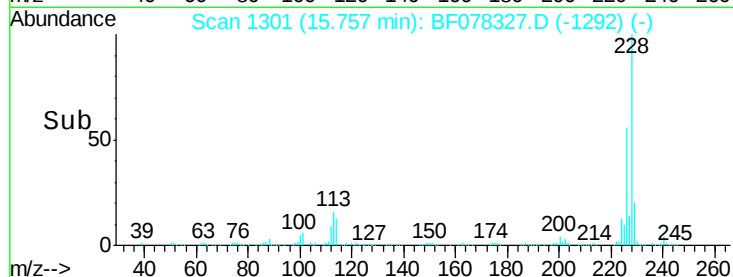
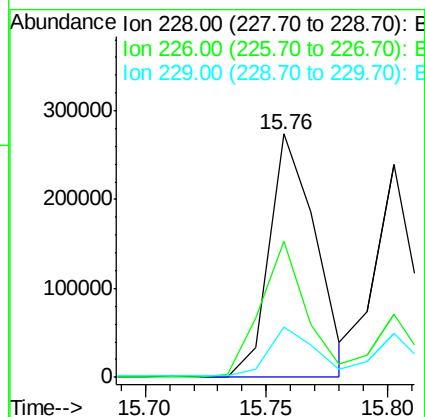
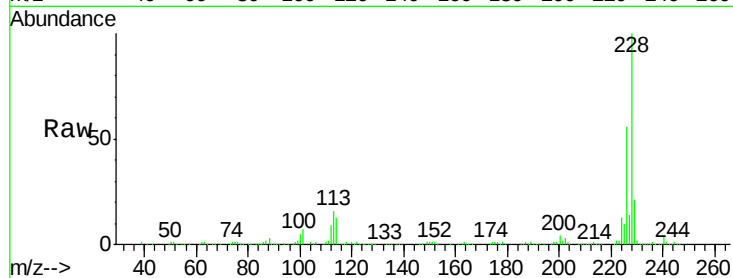




#80
Benzo(a)anthracene
Concen: 39.06 ng
RT: 15.76 min Scan# 1301
Delta R.T. 0.00 min
Lab File: BF078327.D
Acq: 8 Apr 2015 7:30

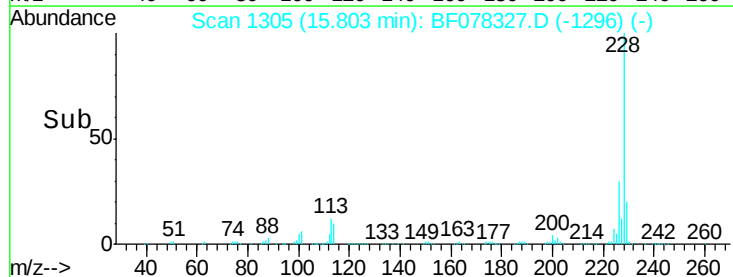
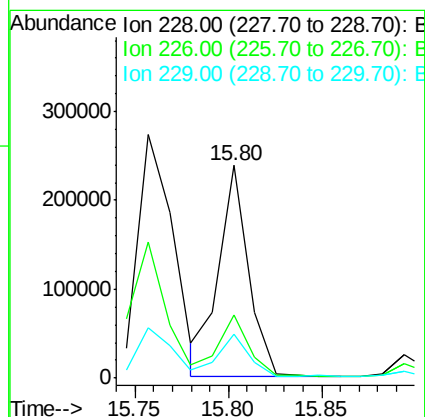
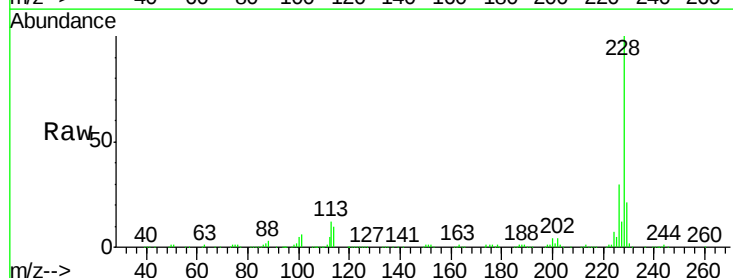
Instrument :
BNA_F
ClientSampleId :
SB-3DDL

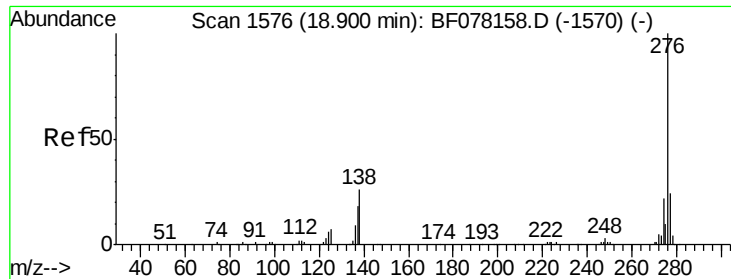
Tot Ion:228 Resp: 365876
Ion Ratio Lower Upper
228 100
226 56.1 21.3 31.9#
229 20.5 15.4 23.2



#82
Chrysene
Concen: 30.20 ng
RT: 15.80 min Scan# 1305
Delta R.T. 0.00 min
Lab File: BF078327.D
Acq: 8 Apr 2015 7:30

Tgt Ion:228 Resp: 265719
Ion Ratio Lower Upper
228 100
226 30.0 24.2 36.4
229 20.7 15.8 23.8

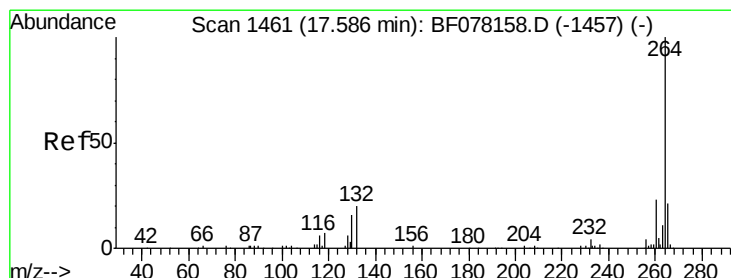
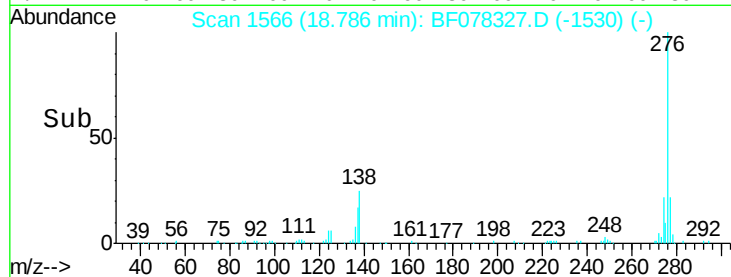
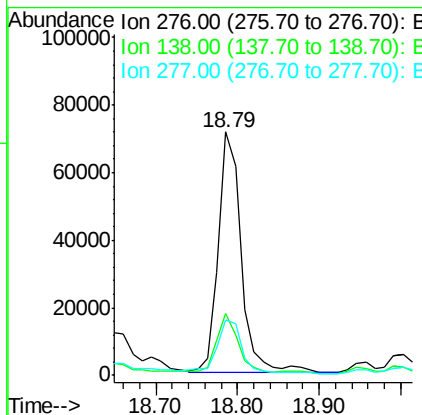
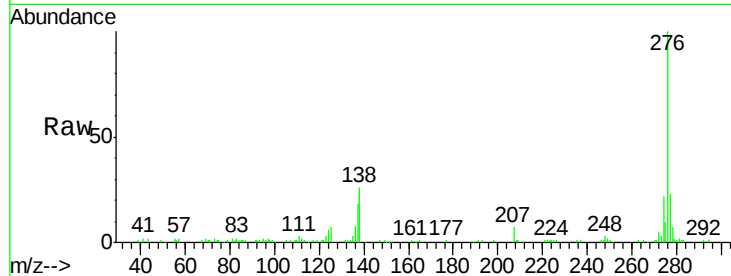




#85
 Indeno(1,2,3-cd)pyrene
 Concen: 13.85 ng
 RT: 18.79 min Scan# 1566
 Delta R.T. 0.11 min
 Lab File: BF078327.D
 Acq: 8 Apr 2015 7:30

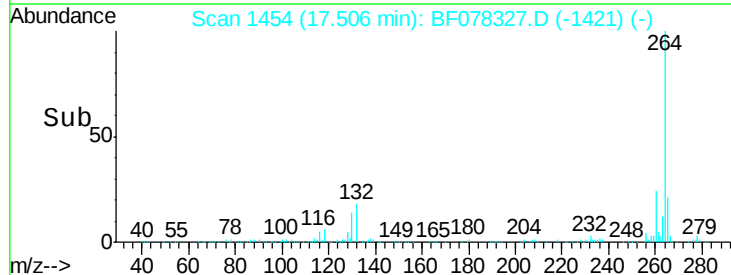
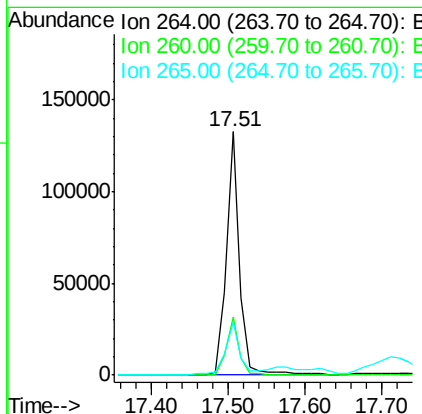
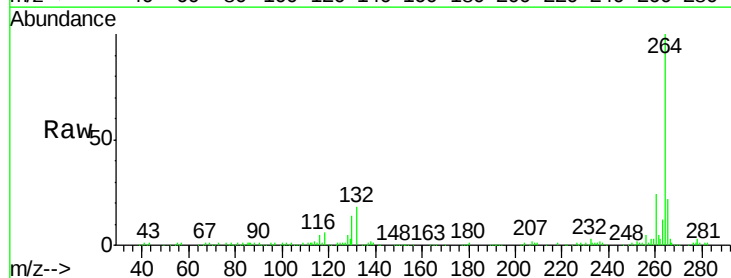
Instrument :
 BNA_F
 ClientSampleId :
 SB-3DDL

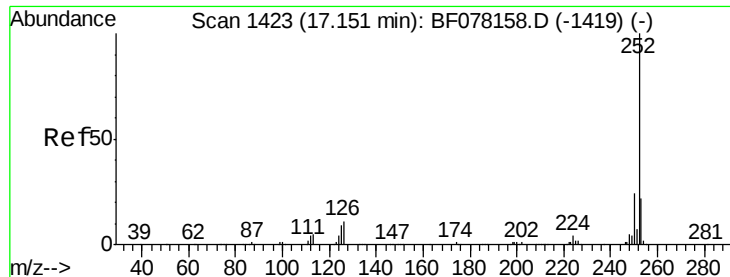
Tot Ion:276 Resp: 138328
 Ion Ratio Lower Upper
 276 100
 138 22.0 16.9 25.3
 277 23.3 15.8 23.6



#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 17.51 min Scan# 1454
 Delta R.T. 0.08 min
 Lab File: BF078327.D
 Acq: 8 Apr 2015 7:30

Tgt Ion:264 Resp: 162197
 Ion Ratio Lower Upper
 264 100
 260 23.7 18.6 27.8
 265 21.6 17.0 25.6

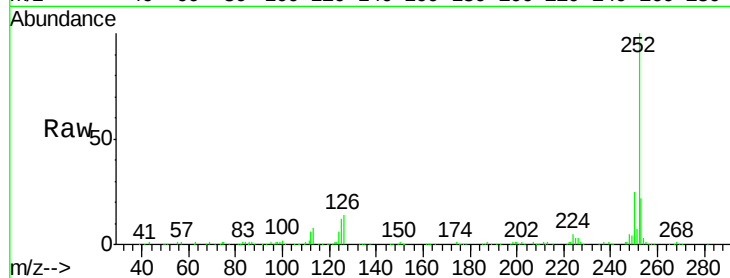




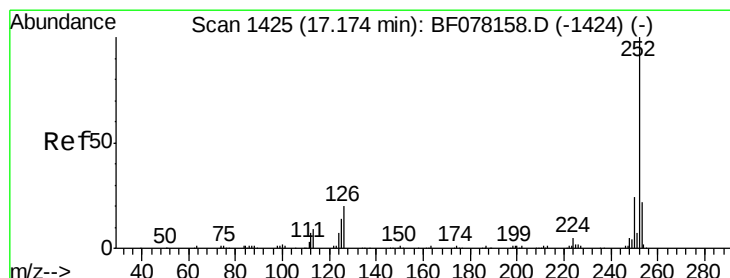
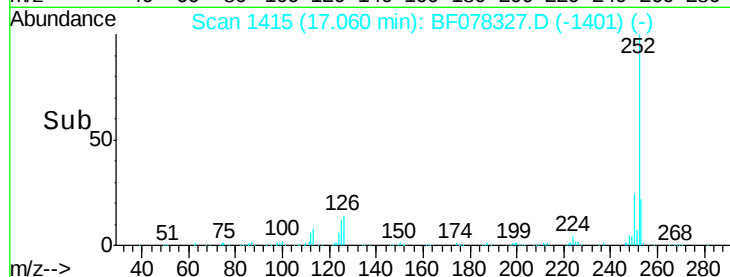
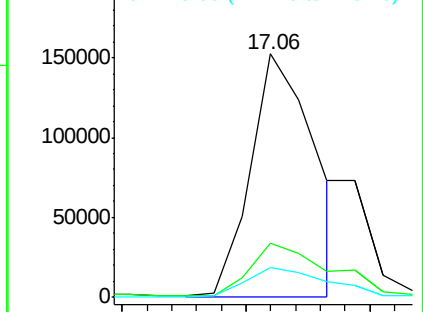
#87
Benzo(b)fluoranthene
Concen: 27.56 ng m
RT: 17.06 min Scan# 1415
Delta R.T. 0.06 min
Lab File: BF078327.D
Acq: 8 Apr 2015 7:30

Instrument :
BNA_F
ClientSampleId :
SB-3DDL

Tot Ion:252 Resp: 276285
Ion Ratio Lower Upper
252 100
253 22.3 17.2 25.8
125 12.2 7.0 10.4#

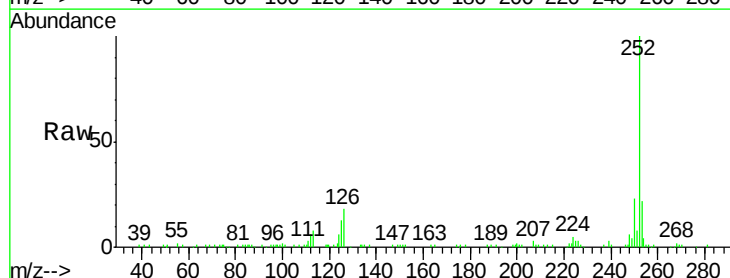


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

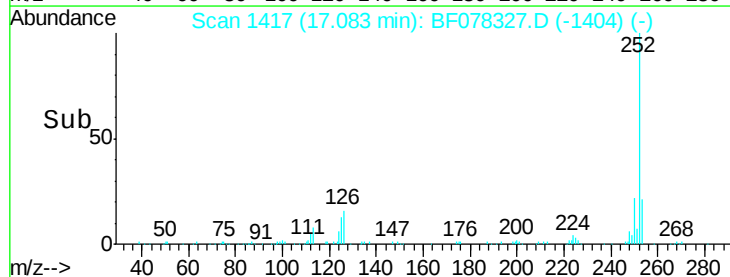
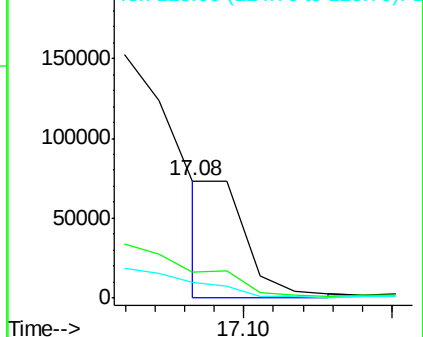


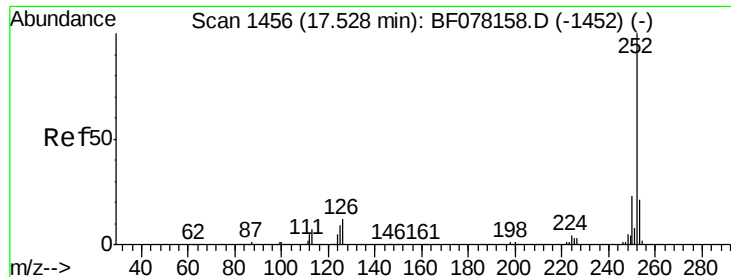
#88
Benzo(k)fluoranthene
Concen: 7.19 ng m
RT: 17.08 min Scan# 1417
Delta R.T. 0.05 min
Lab File: BF078327.D
Acq: 8 Apr 2015 7:30

Tgt Ion:252 Resp: 64049
Ion Ratio Lower Upper
252 100
253 21.9 17.5 26.3
125 13.3 11.6 17.4



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





#89

Benzo(a)pyrene

Concen: 36.15 ng

RT: 17.45 min Scan# 1449

Delta R.T. 0.09 min

Lab File: BF078327.D

Acq: 8 Apr 2015 7:30

Instrument :

BNA_F

ClientSampleId :

SB-3DDL

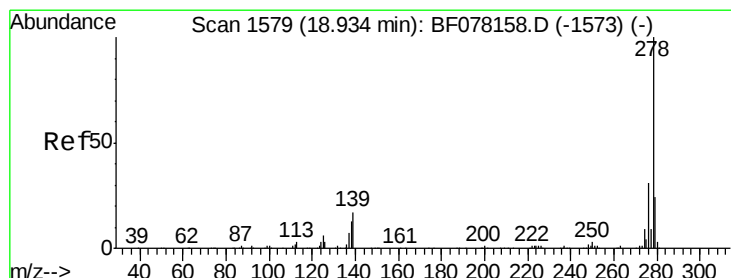
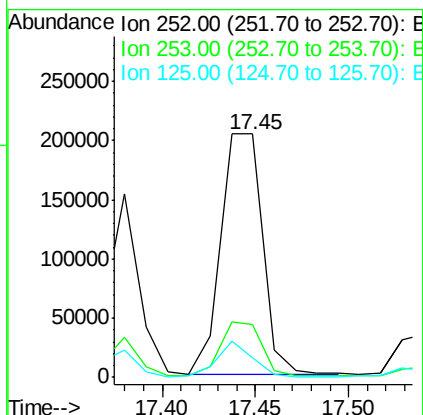
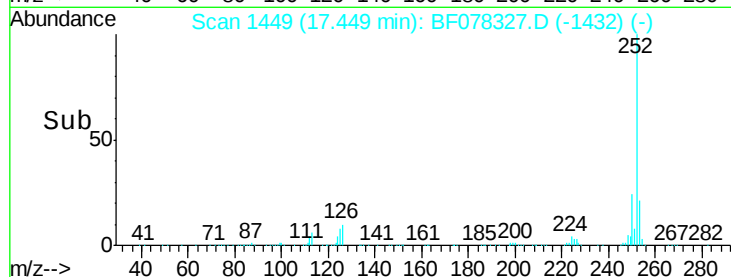
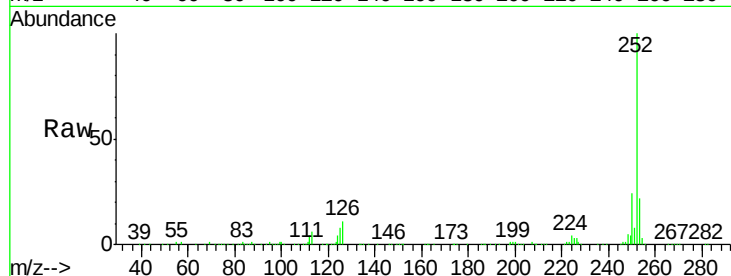
Tot Ion:252 Resp: 316216

Ion Ratio Lower Upper

252 100

253 21.6 16.8 25.2

125 8.2 7.4 11.0



#90

Dibenzo(a,h)anthracene

Concen: 2.61 ng

RT: 18.81 min Scan# 1568

Delta R.T. 0.10 min

Lab File: BF078327.D

Acq: 8 Apr 2015 7:30

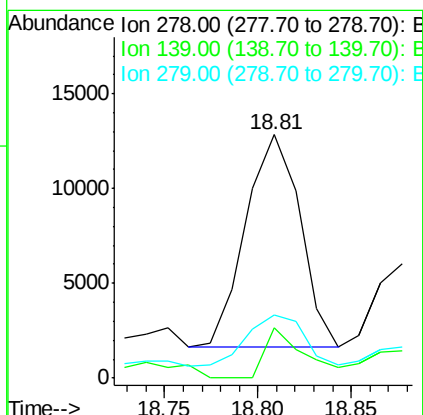
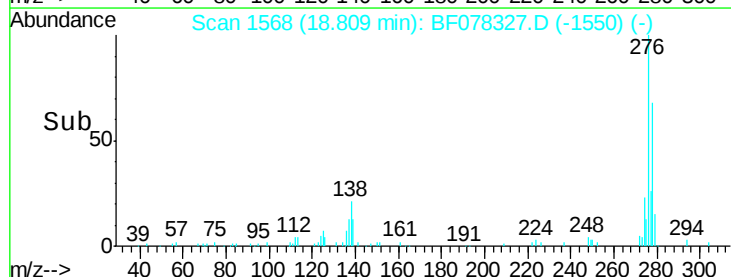
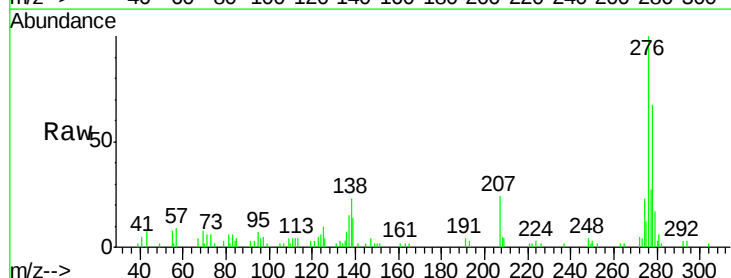
Tgt Ion:278 Resp: 22821

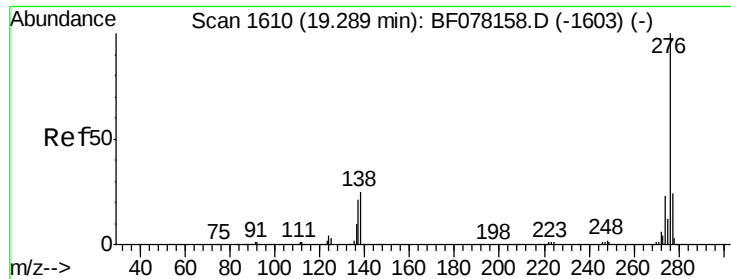
Ion Ratio Lower Upper

278 100

139 20.7 13.6 20.4#

279 25.9 19.0 28.6





#91

Benzo(a,h,i)perylene

Concen: 21.82 ng/ml

RT: 19.15 min Scan# 1598

Delta R.T. 0.11 min

Lab File: BF078327.D

Acq: 8 Apr 2015 7:30

Instrument :

BNA_F

ClientSampleId :

SB-3DDL

Tot Ion: 276 Resp: 191620

Ion Ratio Lower Upper

276 100

277 22.9 19.0 28.4

138 26.6 19.9 29.9

