

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040815\
 Data File : BF078353.D
 Acq On : 9 Apr 2015 00:22
 Operator : TP/IZ
 Sample : G1793-03 5X
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-3DA

Quant Time: Apr 09 02:10:08 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 09 00:49:15 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.91	152	41155	20.00	ng	0.00
21) Naphthalene-d8	8.50	136	162187	20.00	ng	0.01
38) Acenaphthene-d10	10.66	164	83999	20.00	ng	0.01
63) Phenanthrene-d10	12.49	188	157940	20.00	ng	0.01
75) Chrysene-d12	15.76	240	161061	20.00	ng	-0.01
86) Perylene-d12	17.46	264	160323	20.00	ng	-0.11

System Monitoring Compounds						
5) 2-Fluorophenol	5.18	112	41619	16.67	ng	0.01
7) Phenol-d6	6.52	99	52795	16.88	ng	0.01
23) Nitrobenzene-d5	7.61	82	29194	10.91	ng	0.00
41) 2,4,6-Tribromophenol	11.63	330	10976	15.76	ng	0.00
44) 2-Fluorobiphenyl	9.84	172	62826	10.69	ng	0.00
78) Terphenyl-d14	14.48	244	74492	10.45	ng	0.00

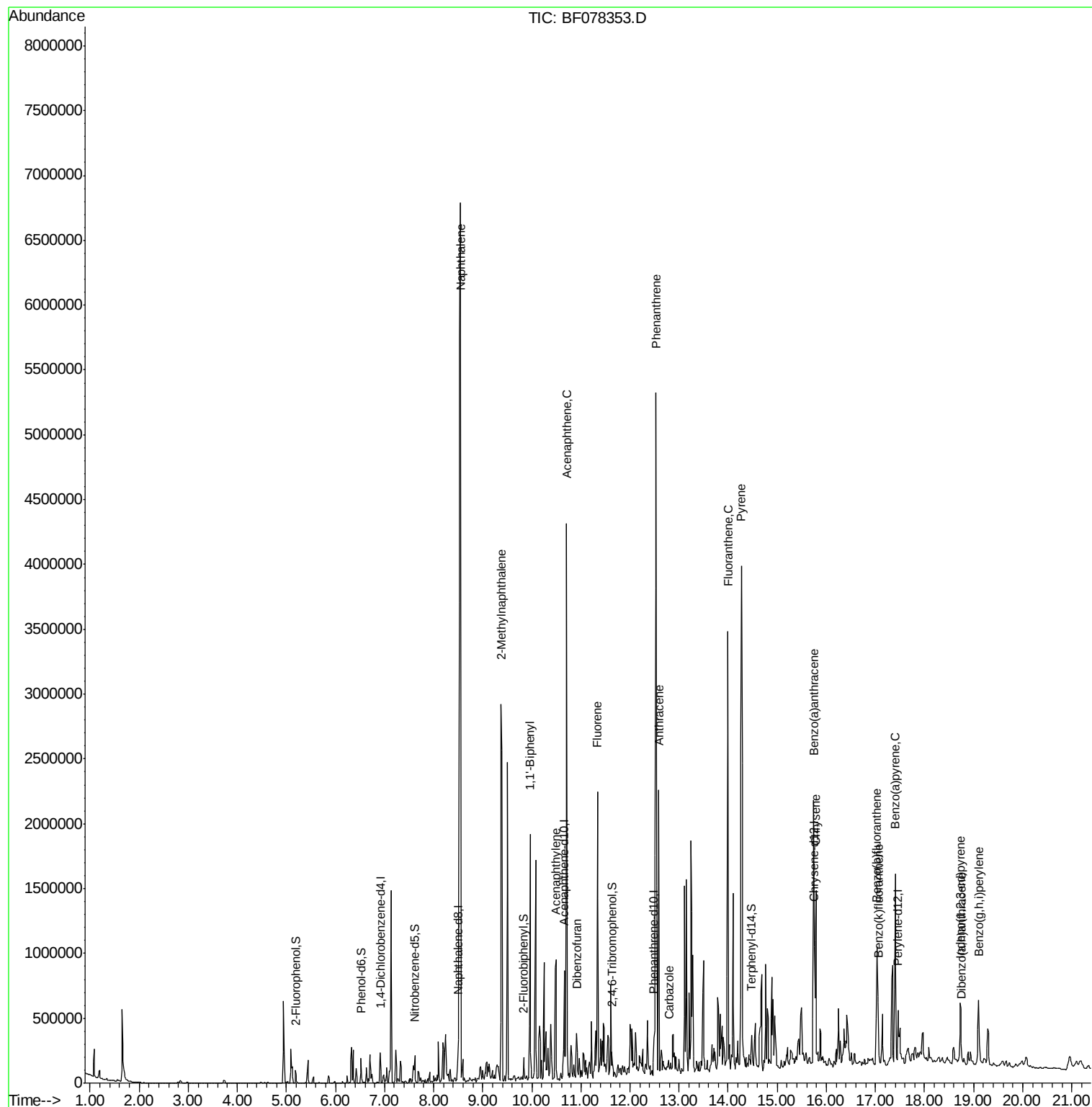
Target Compounds						Qvalue
31) Naphthalene	8.54	128	5229392	619.48	ng	# 93
37) 2-Methylnaphthalene	9.38	142	1256138	219.17	ng	96
45) 1,1'-Biphenyl	9.96	154	603857	87.89	ng	98
48) Acenaphthylene	10.49	152	497820	57.03	ng	97
51) Acenaphthene	10.70	154	1142288	232.41	ng	98
54) Dibenzofuran	10.91	168	81921	10.91	ng	98
57) Fluorene	11.33	166	938396	154.22	ng	99
70) Phenanthrene	12.53	178	3441052	376.65	ng	95
71) Anthracene	12.59	178	1091201	121.21	ng	99
72) Carbazole	12.80	167	25677	3.04	ng	# 91
74) Fluoranthene	14.00	202	2013167	208.95	ng	95
77) Pvrene	14.27	202	2724752	269.49	ng	93
80) Benzo(a)anthracene	15.75	228	977841m	102.04	ng	
82) Chrysene	15.79	228	630238	70.00	ng	98
85) Indeno(1,2,3-cd)pyrene	18.73	276	325948m	31.90	ng	
87) Benzo(b)fluoranthene	17.03	252	695680	70.21	ng	# 94
88) Benzo(k)fluoranthene	17.06	252	162595m	18.47	ng	
89) Benzo(a)pyrene	17.40	252	768311	88.85	ng	# 94
90) Dibenzo(a,h)anthracene	18.75	278	57478m	6.64	ng	
91) Benzo(a,h,i)perylene	19.11	276	410544	47.30	ng	96

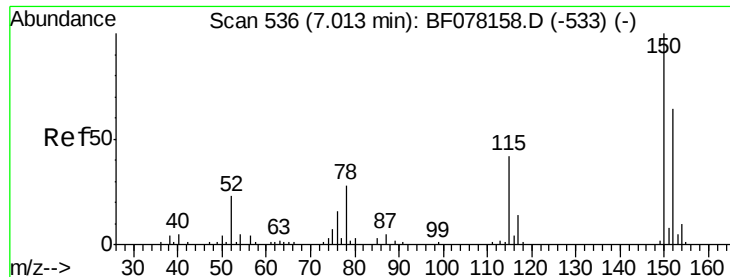
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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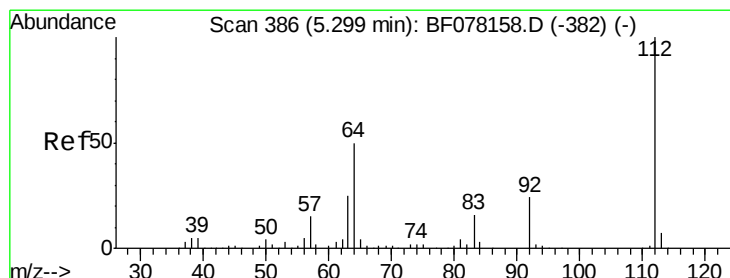
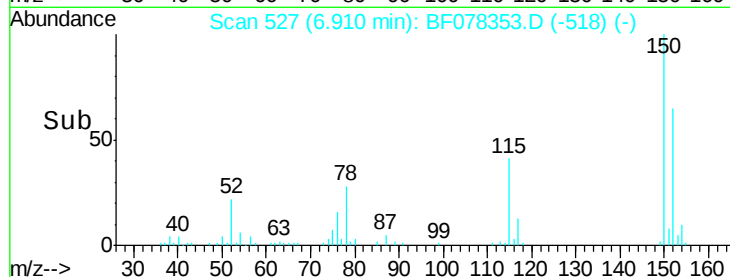
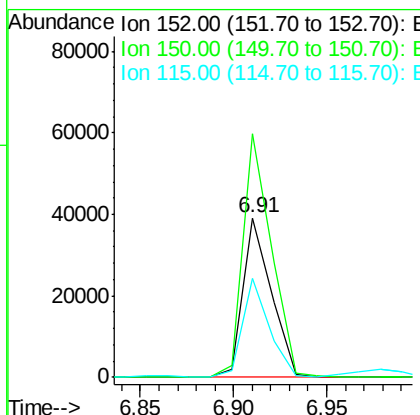
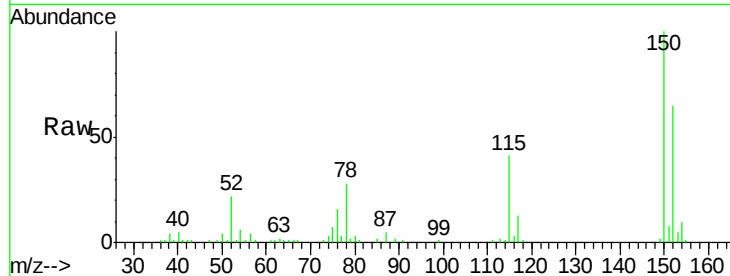




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.91 min Scan# 527
 Delta R.T. 0.00 min
 Lab File: BF078353.D
 Acq: 9 Apr 2015 00:22

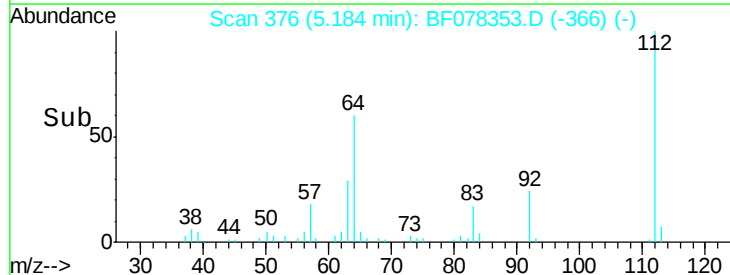
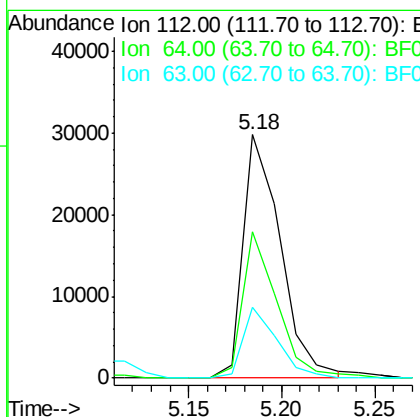
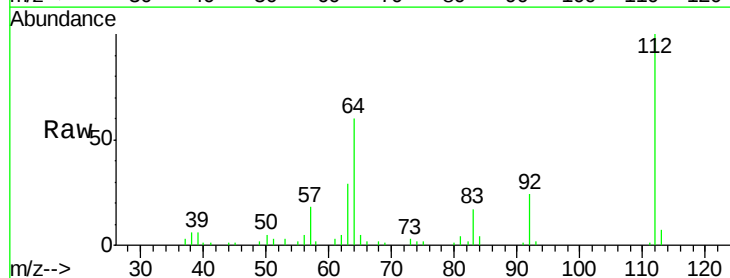
Instrument :
 BNA_F
 ClientSampleId :
 SB-3DA

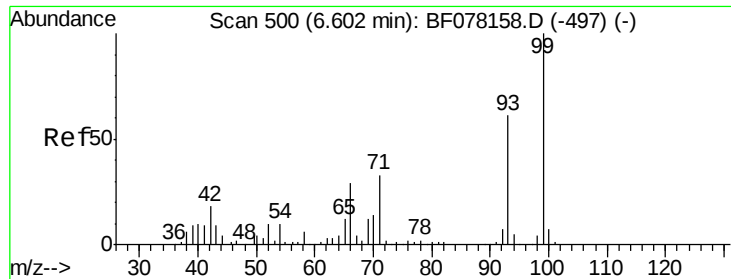
Tot Ion:152 Resp: 41155
 Ion Ratio Lower Upper
 152 100
 150 152.9 125.9 188.9
 115 62.3 52.7 79.1



#5
 2-Fluorophenol
 Concen: 16.67 ng
 RT: 5.18 min Scan# 376
 Delta R.T. 0.01 min
 Lab File: BF078353.D
 Acq: 9 Apr 2015 00:22

Tgt Ion:112 Resp: 41619
 Ion Ratio Lower Upper
 112 100
 64 60.3 39.9 59.9#
 63 29.0 20.2 30.4





#7

Phenol-d6

Concen: 16.88 ng

RT: 6.52 min Scan# 493

Delta R.T. 0.01 min

Lab File: BF078353.D

Acq: 9 Apr 2015 00:22

Instrument :

BNA_F

ClientSampleId :

SB-3DA

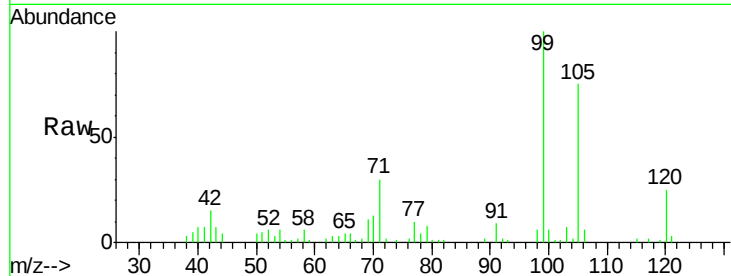
Tot Ion: 99 Resp: 52795

Ion Ratio Lower Upper

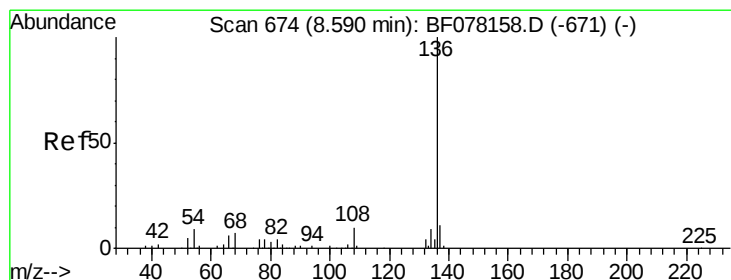
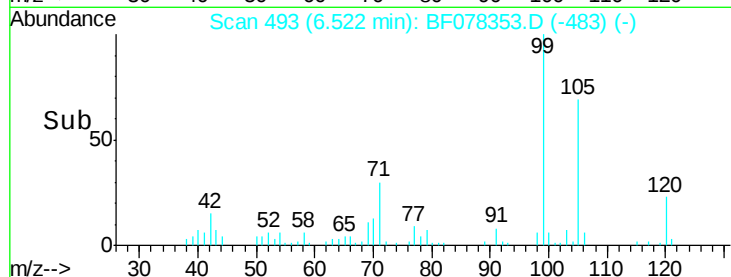
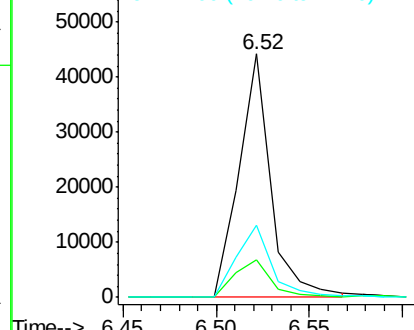
99 100

42 15.2 14.8 22.2

71 29.8 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: 8.50 min Scan# 666

Delta R.T. 0.01 min

Lab File: BF078353.D

Acq: 9 Apr 2015 00:22

Tgt Ion: 136 Resp: 162187

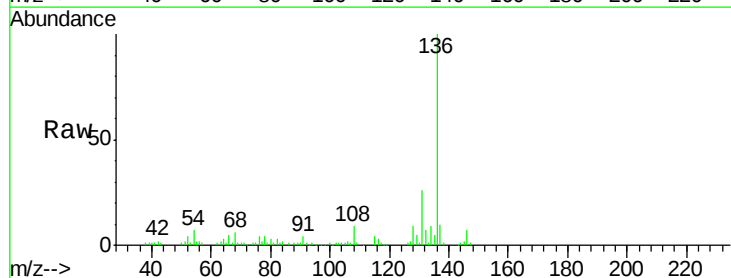
Ion Ratio Lower Upper

136 100

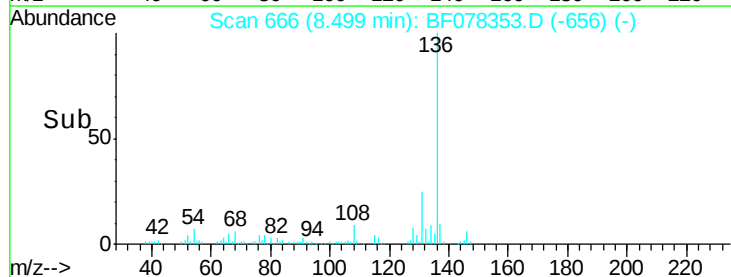
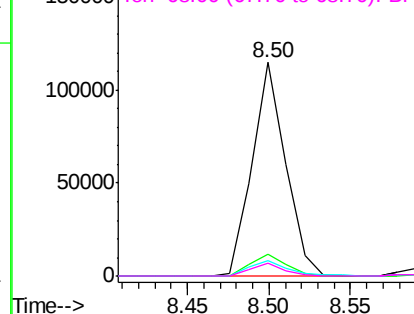
137 10.4 9.0 13.4

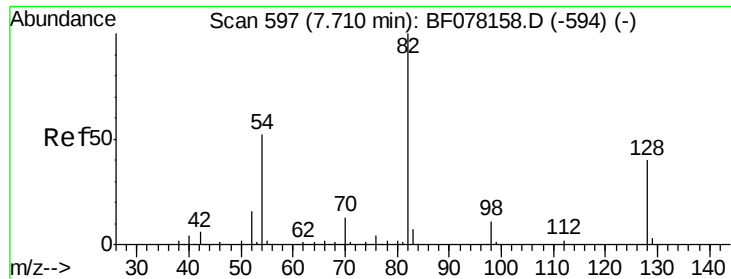
54 7.1 7.0 10.6

68 5.9 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

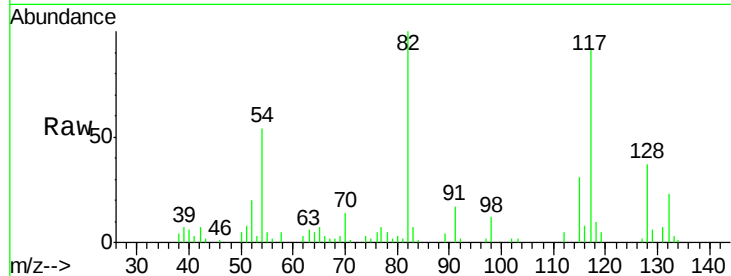




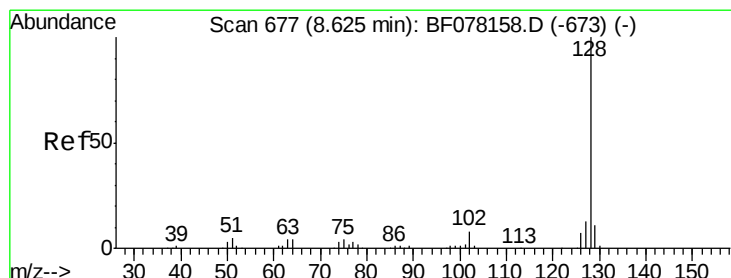
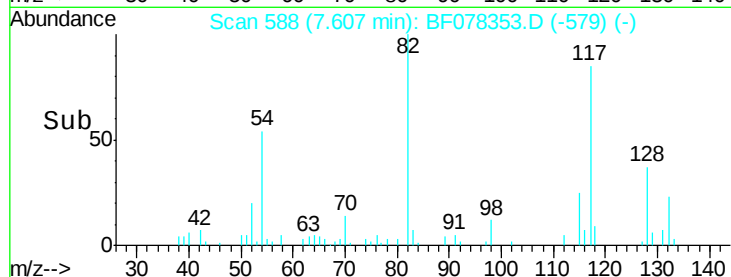
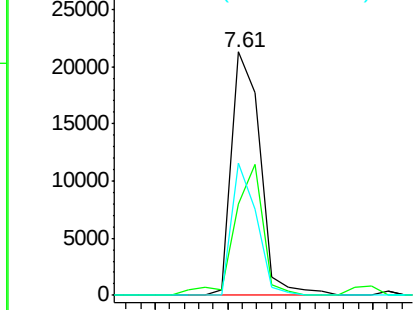
#23
Nitrobenzene-d5
Concen: 10.91 ng
RT: 7.61 min Scan# 588
Delta R.T. -0.00 min
Lab File: BF078353.D
Acq: 9 Apr 2015 00:22

Instrument :
BNA_F
ClientSampleId :
SB-3DA

Tot Ion: 82 Resp: 29194
Ion Ratio Lower Upper
82 100
128 37.4 31.8 47.8
54 54.4 41.5 62.3

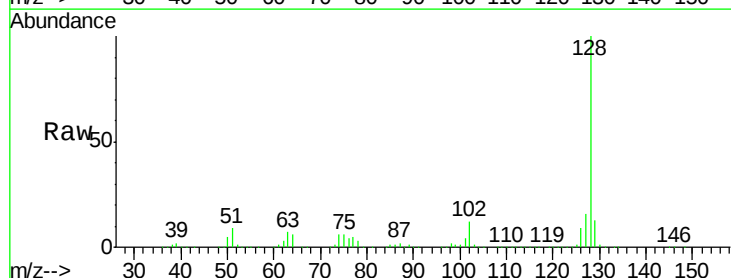


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

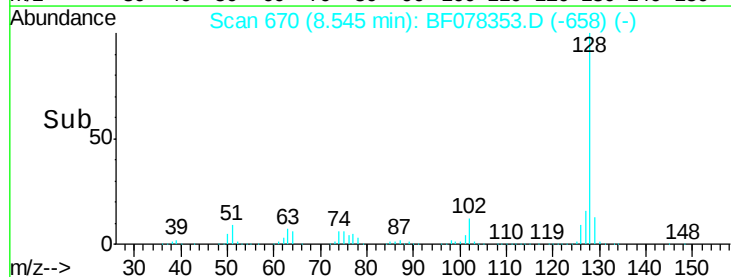
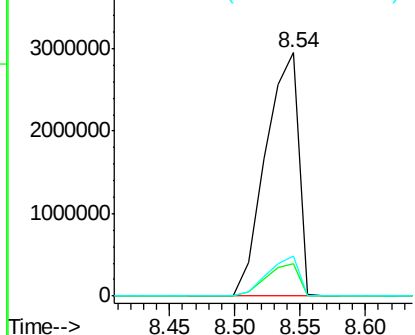


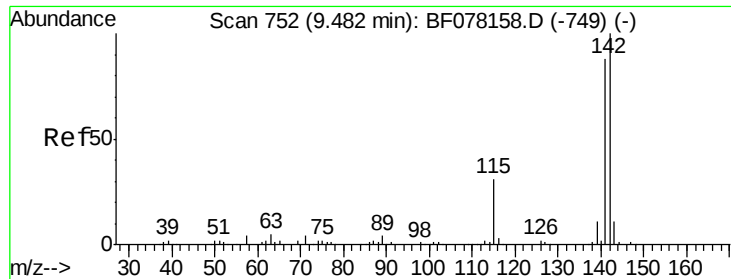
#31
Naphthalene
Concen: 619.48 ng
RT: 8.54 min Scan# 670
Delta R.T. 0.03 min
Lab File: BF078353.D
Acq: 9 Apr 2015 00:22

Tgt Ion:128 Resp: 5229392
Ion Ratio Lower Upper
128 100
129 13.3 8.6 12.8#
127 16.3 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

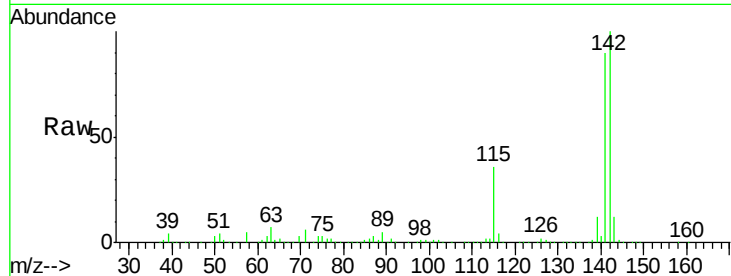




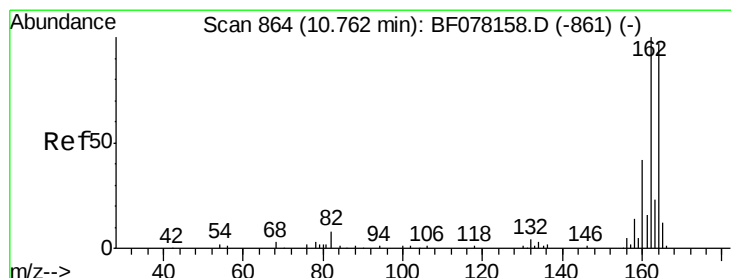
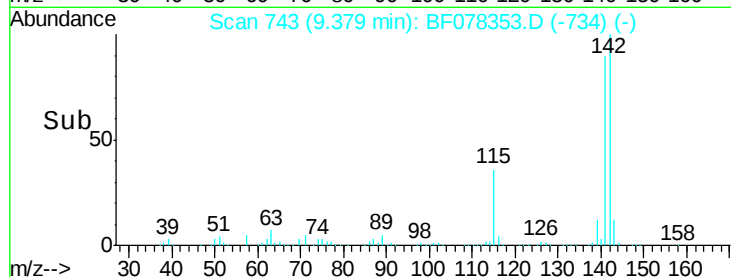
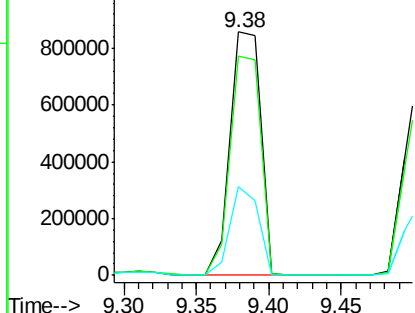
#37
2-Methylnaphthalene
Concen: 219.17 ng
RT: 9.38 min Scan# 743
Delta R.T. 0.00 min
Lab File: BF078353.D
Acq: 9 Apr 2015 00:22

Instrument :
BNA_F
ClientSampleId :
SB-3DA

Tot Ion:142 Resp: 1256138
Ion Ratio Lower Upper
142 100
141 90.0 70.3 105.5
115 36.2 24.6 37.0

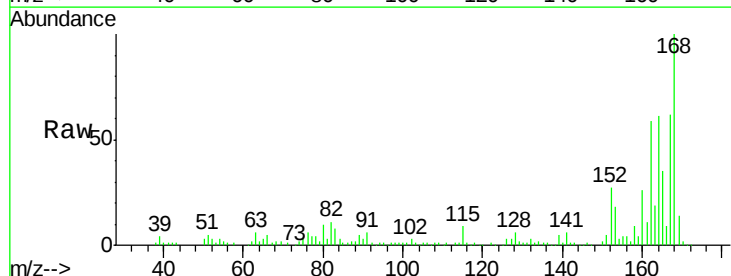


Abundance Ion 142.00 (141.70 to 142.70): E
Ion 141.00 (140.70 to 141.70): E
Ion 115.00 (114.70 to 115.70): E

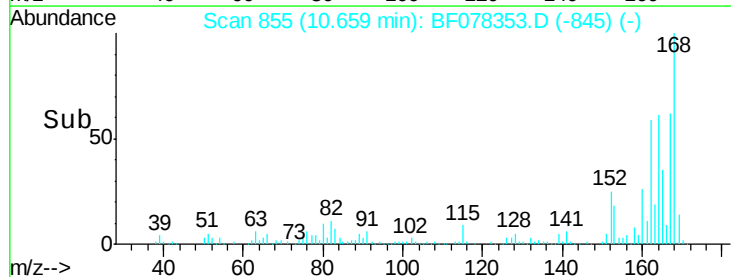
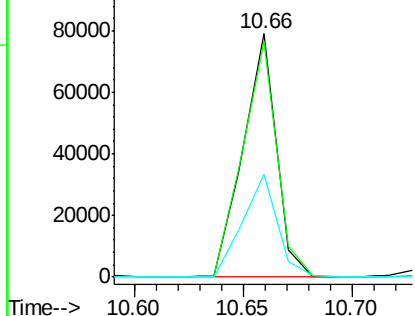


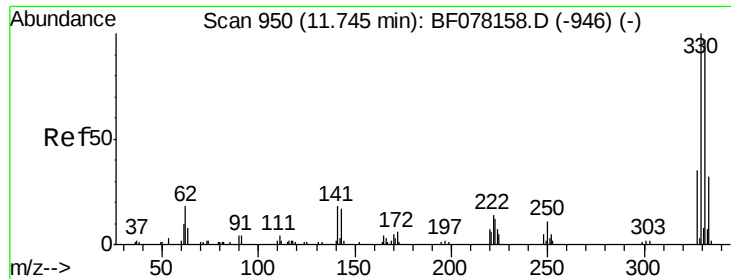
#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.66 min Scan# 855
Delta R.T. 0.01 min
Lab File: BF078353.D
Acq: 9 Apr 2015 00:22

Tgt Ion:164 Resp: 83999
Ion Ratio Lower Upper
164 100
162 97.0 82.2 123.2
160 42.1 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

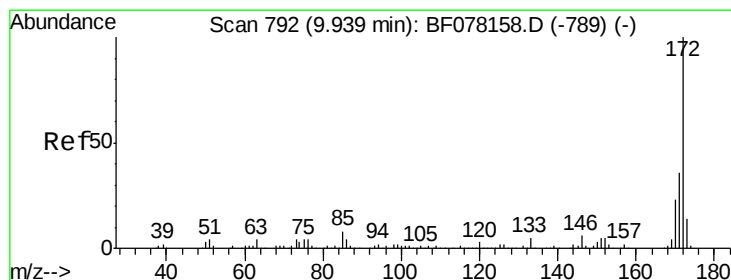
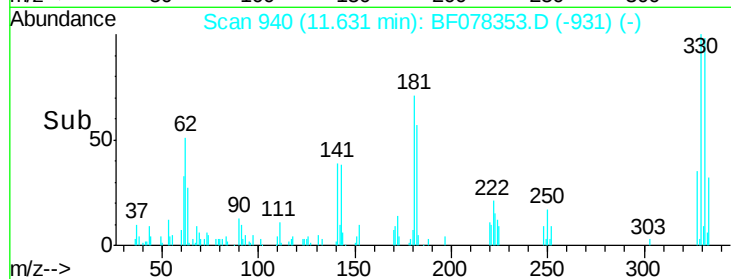
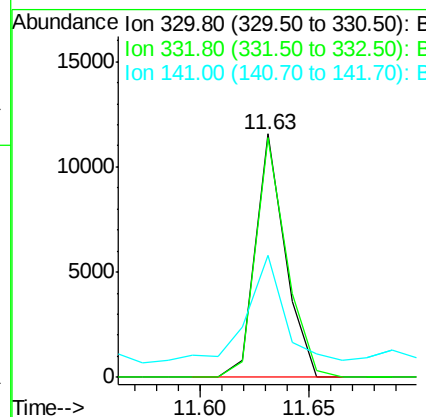
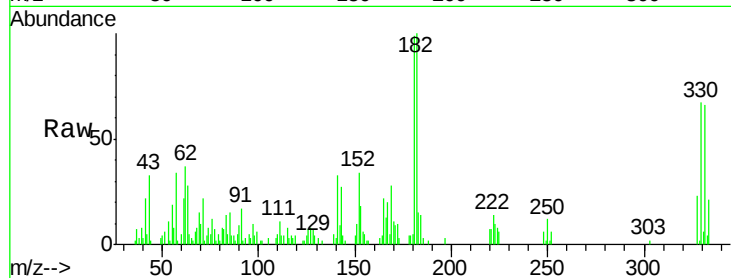




#41
 2,4,6-Tribromophenol
 Concen: 15.76 ng
 RT: 11.63 min Scan# 940
 Delta R.T. 0.00 min
 Lab File: BF078353.D
 Acq: 9 Apr 2015 00:22

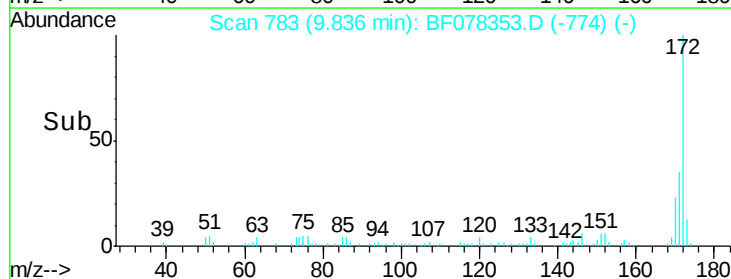
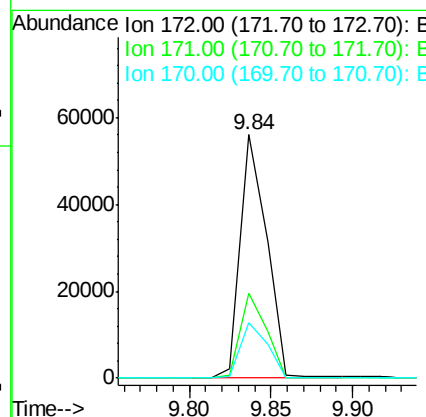
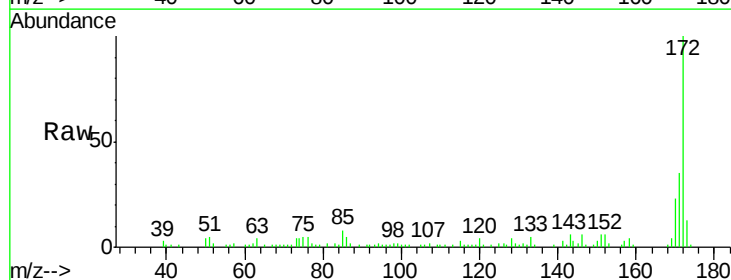
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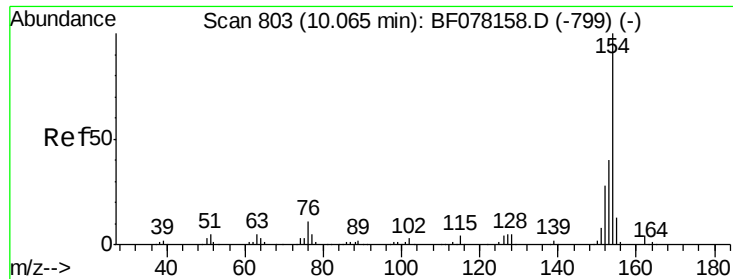
Tot Ion:330 Resp: 10976
 Ion Ratio Lower Upper
 330 100
 332 102.6 78.6 117.8
 141 55.9 31.2 46.8#



#44
 2-Fluorobiphenyl
 Concen: 10.69 ng
 RT: 9.84 min Scan# 783
 Delta R.T. -0.00 min
 Lab File: BF078353.D
 Acq: 9 Apr 2015 00:22

Tgt Ion:172 Resp: 62826
 Ion Ratio Lower Upper
 172 100
 171 34.8 28.6 42.8
 170 22.8 18.5 27.7

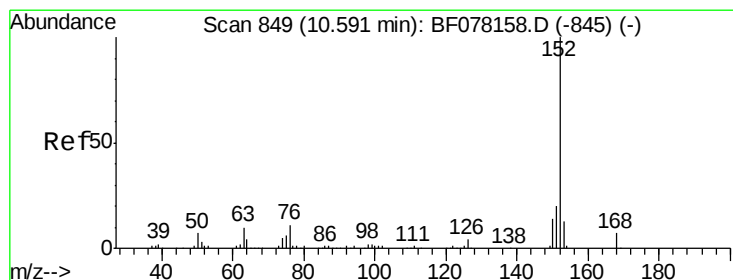
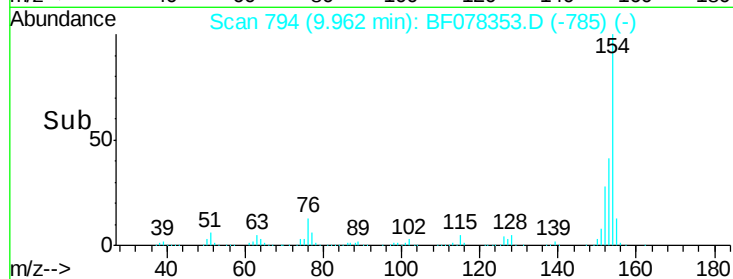
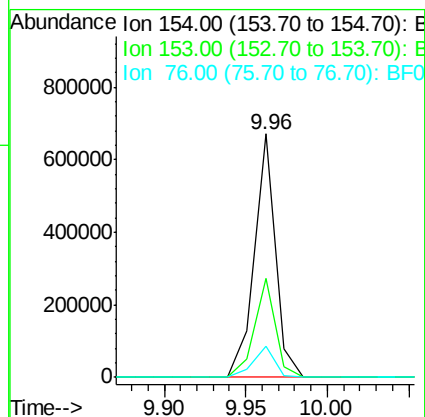
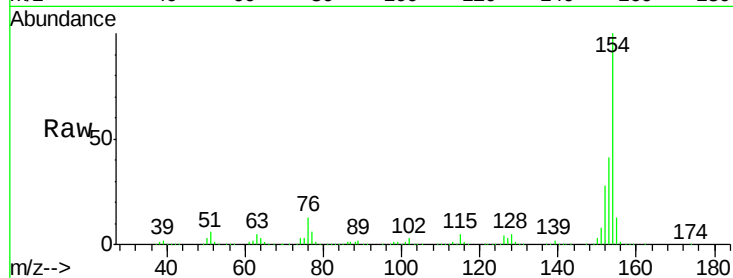




#45
1,1'-Biphenyl
Concen: 87.89 ng
RT: 9.96 min Scan# 794
Delta R.T. 0.00 min
Lab File: BF078353.D
Acq: 9 Apr 2015 00:22

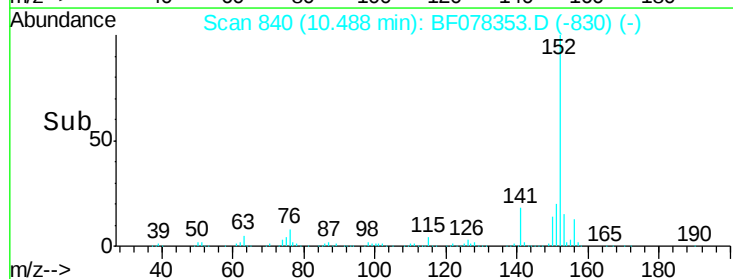
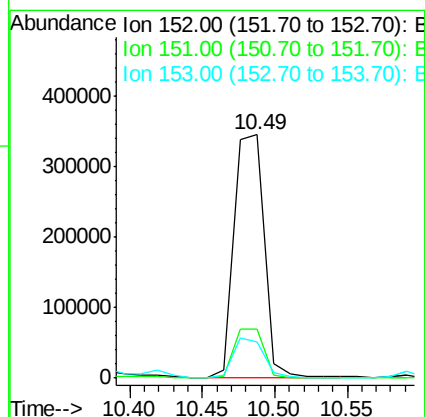
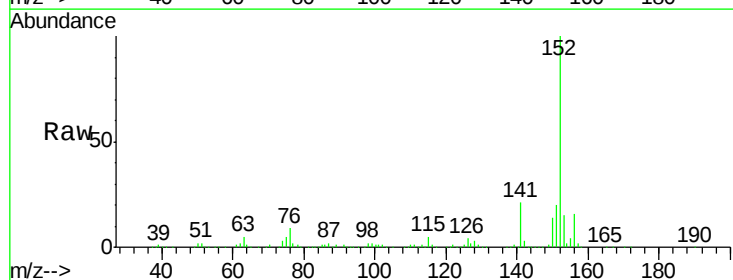
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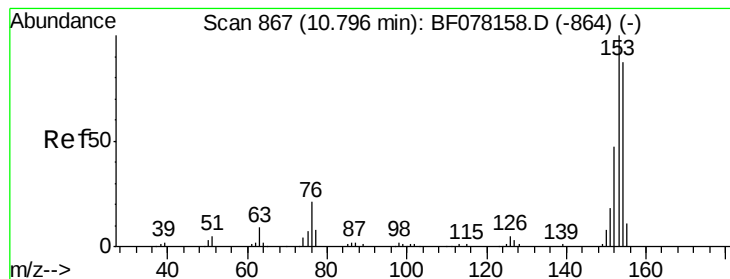
Tot Ion:154 Resp: 603857
Ion Ratio Lower Upper
154 100
153 40.5 20.0 60.0
76 12.7 0.0 30.6



#48
Acenaphthylene
Concen: 57.03 ng
RT: 10.49 min Scan# 840
Delta R.T. 0.01 min
Lab File: BF078353.D
Acq: 9 Apr 2015 00:22

Tgt Ion:152 Resp: 497820
Ion Ratio Lower Upper
152 100
151 20.3 15.7 23.5
153 15.1 10.2 15.2





#51

Acenaphthene

Concen: 232.41 ng

RT: 10.70 min Scan# 859

Delta R.T. 0.01 min

Lab File: BF078353.D

Acq: 9 Apr 2015 00:22

Instrument :

BNA_F

ClientSampleId :

SB-3DA

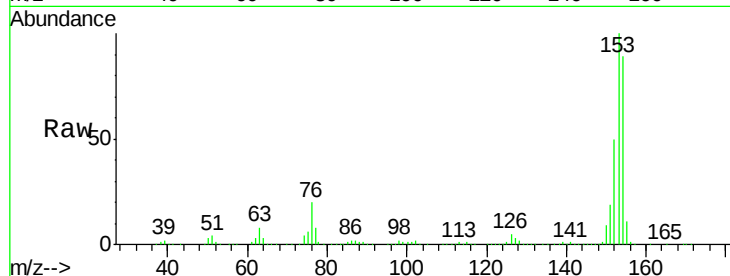
Tot Ion:154 Resp: 1142288

Ion Ratio Lower Upper

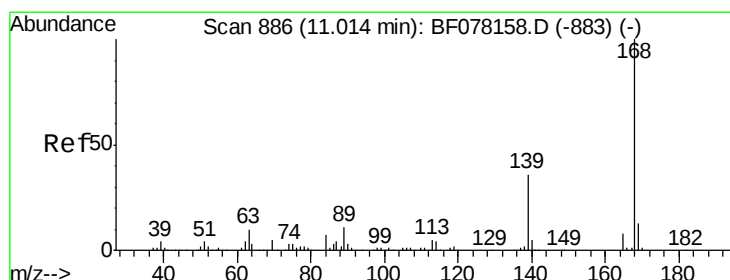
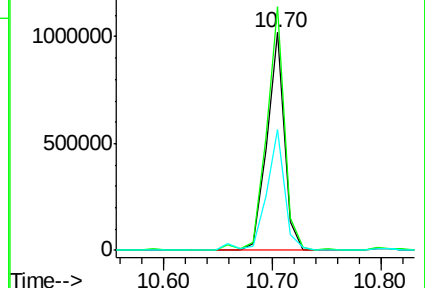
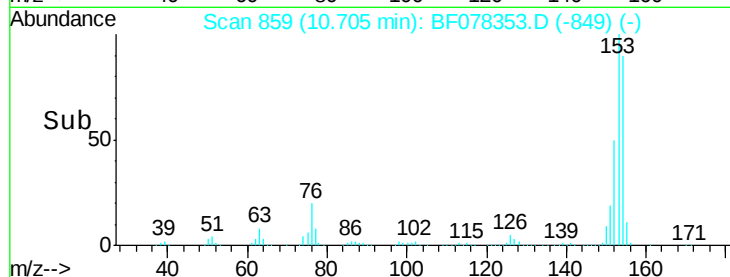
154 100

153 111.8 91.4 137.2

152 55.4 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: 10.91 ng

RT: 10.91 min Scan# 877

Delta R.T. -0.00 min

Lab File: BF078353.D

Acq: 9 Apr 2015 00:22

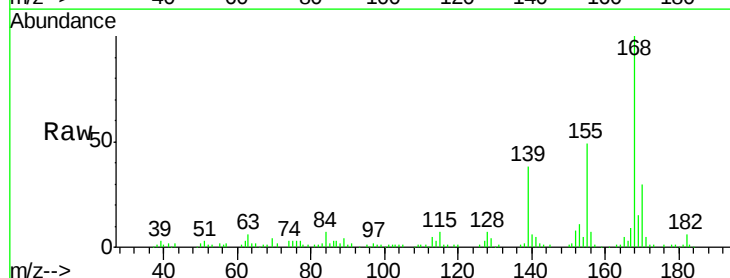
Tgt Ion:168 Resp: 81921

Ion Ratio Lower Upper

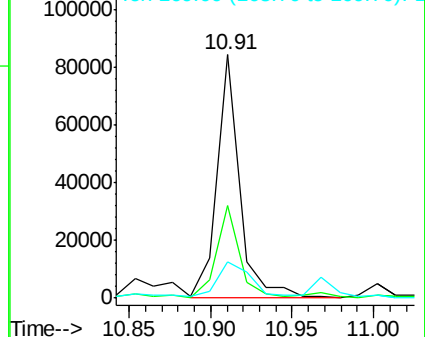
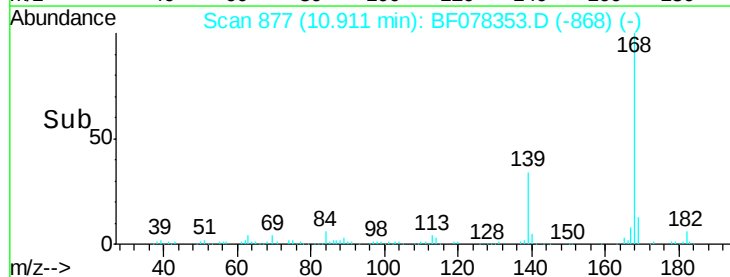
168 100

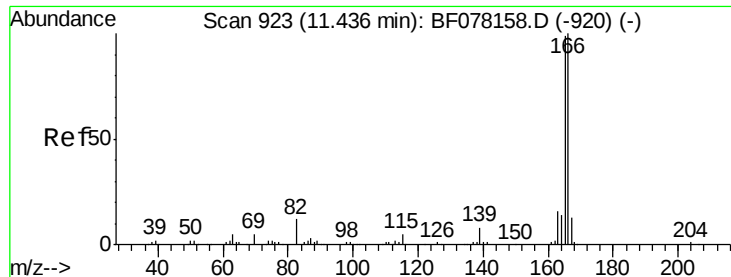
139 38.2 31.0 46.4

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

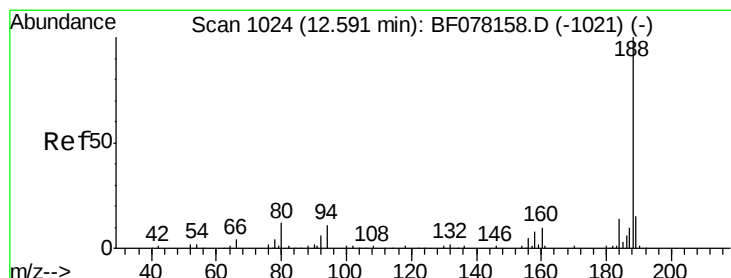
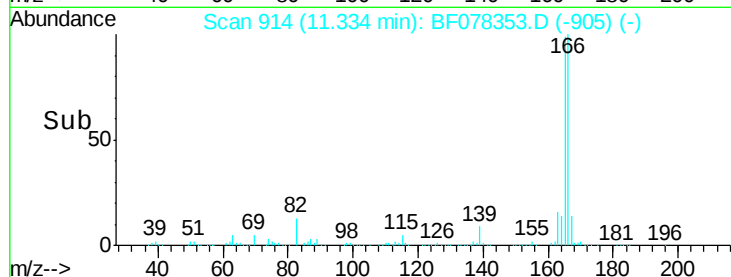
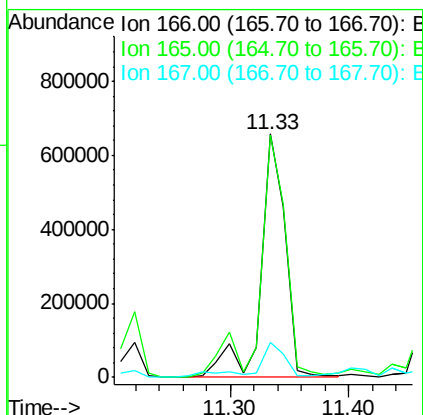
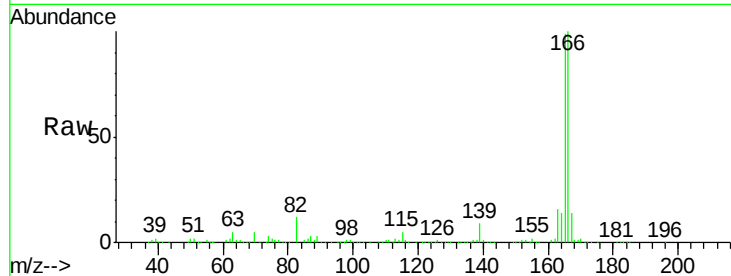




#57
 Fluorene
 Concen: 154.22 ng
 RT: 11.33 min Scan# 914
 Delta R.T. -0.00 min
 Lab File: BF078353.D
 Acq: 9 Apr 2015 00:22

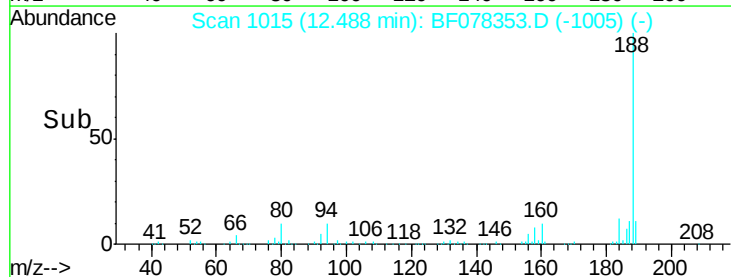
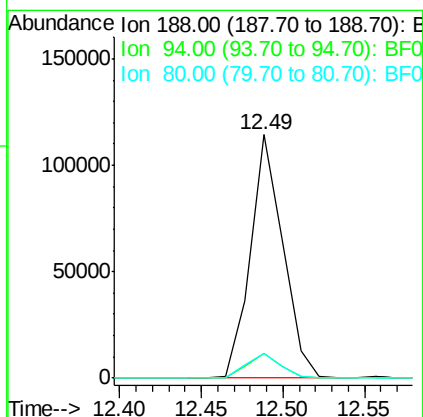
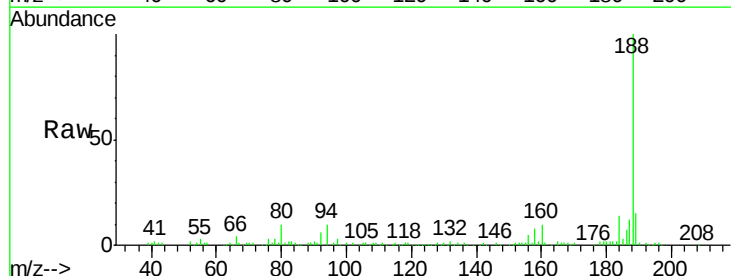
Instrument :
 BNA_F
 ClientSampleId :
 SB-3DA

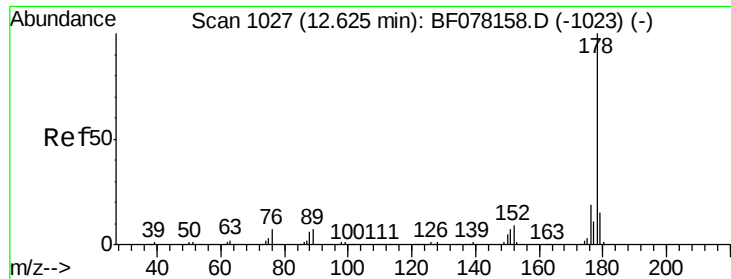
Tot Ion:166 Resp: 938396
 Ion Ratio Lower Upper
 166 100
 165 99.5 78.9 118.3
 167 14.1 10.7 16.1



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.49 min Scan# 1015
 Delta R.T. 0.01 min
 Lab File: BF078353.D
 Acq: 9 Apr 2015 00:22

Tgt Ion:188 Resp: 157940
 Ion Ratio Lower Upper
 188 100
 94 10.1 9.0 13.4
 80 10.4 9.5 14.3

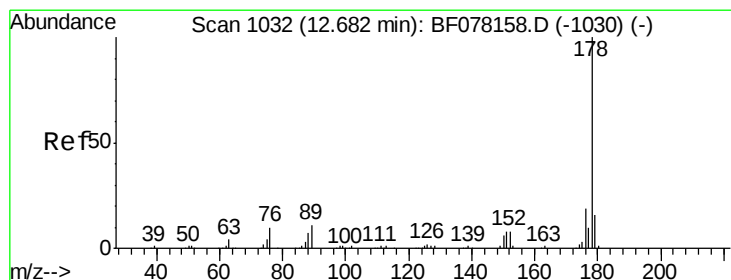
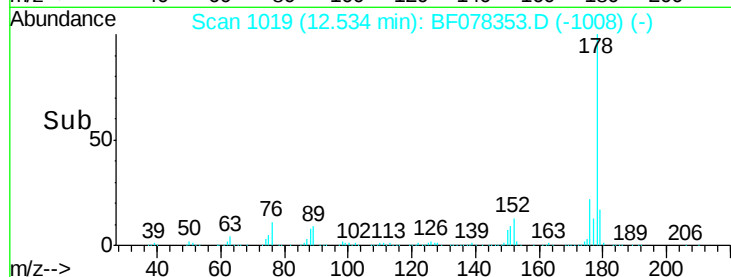
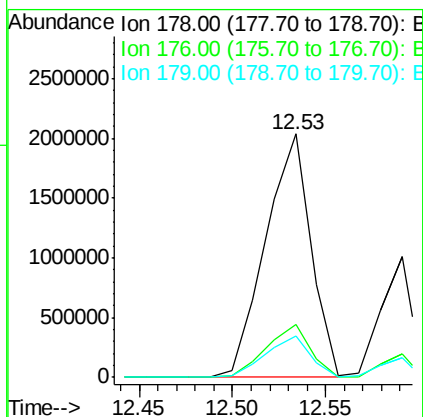
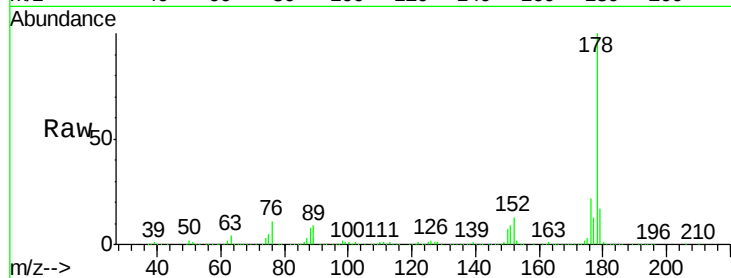




#70
Phenanthrene
Concen: 376.65 ng
RT: 12.53 min Scan# 1019
Delta R.T. 0.02 min
Lab File: BF078353.D
Acq: 9 Apr 2015 00:22

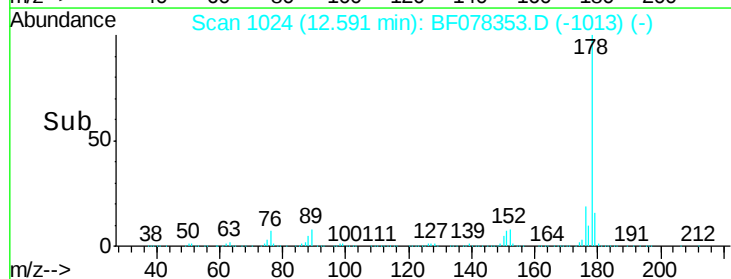
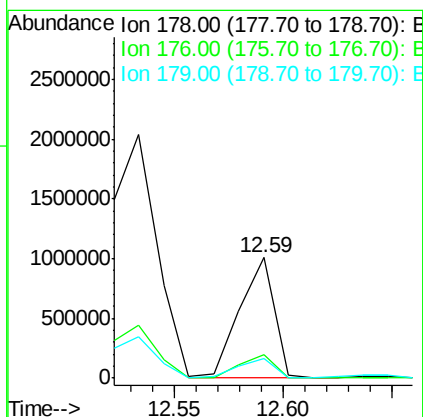
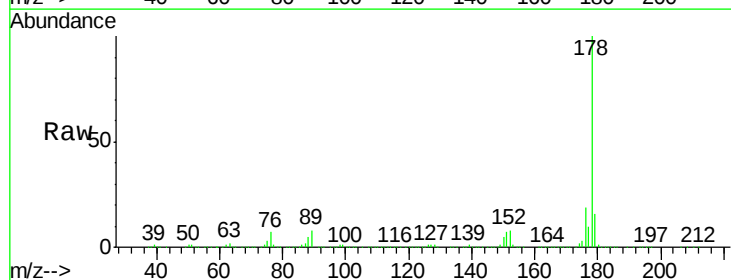
Instrument :
BNA_F
ClientSampled :
SB-3DA

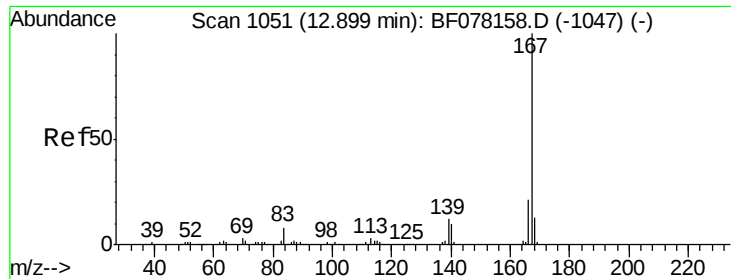
Tot Ion:178 Resp: 3441052
Ion Ratio Lower Upper
178 100
176 21.8 15.4 23.0
179 17.2 12.2 18.2



#71
Anthracene
Concen: 121.21 ng
RT: 12.59 min Scan# 1024
Delta R.T. 0.02 min
Lab File: BF078353.D
Acq: 9 Apr 2015 00:22

Tgt Ion:178 Resp: 1091201
Ion Ratio Lower Upper
178 100
176 19.3 14.8 22.2
179 15.9 12.4 18.6

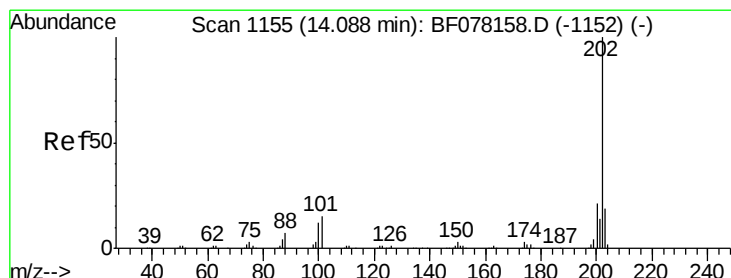
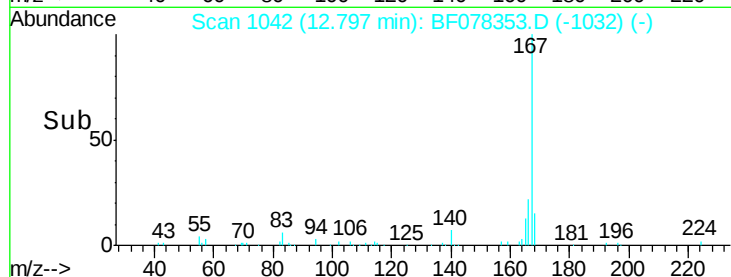
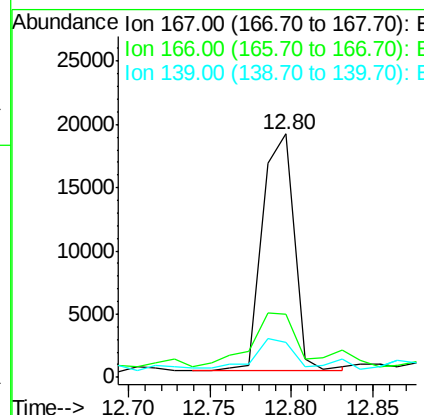
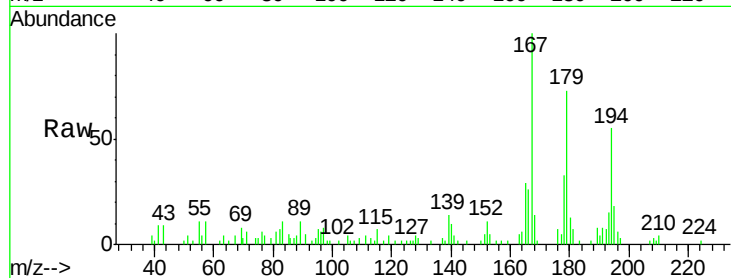




#72
 Carbazole
 Concen: 3.04 ng
 RT: 12.80 min Scan# 1042
 Delta R.T. 0.01 min
 Lab File: BF078353.D
 Acq: 9 Apr 2015 00:22

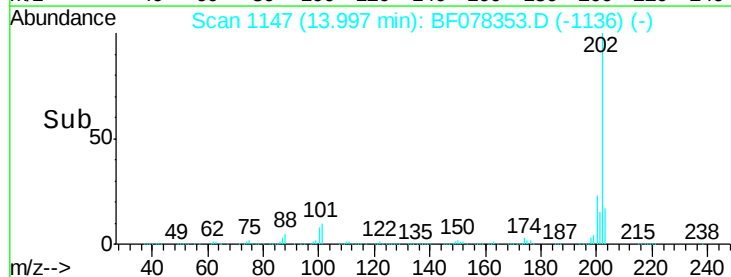
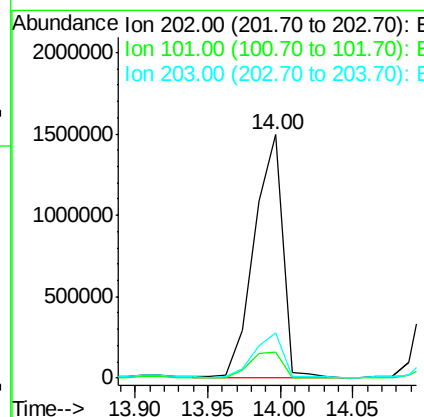
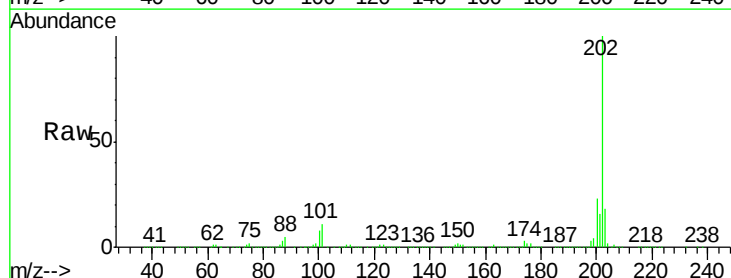
Instrument :
 BNA_F
 ClientSampled :
 SB-3DA

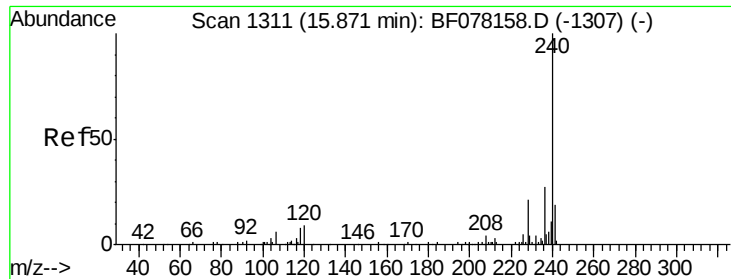
Tot Ion:167 Resp: 25677
 Ion Ratio Lower Upper
 167 100
 166 26.1 16.8 25.2#
 139 14.5 10.0 15.0



#74
 Fluoranthene
 Concen: 208.95 ng
 RT: 14.00 min Scan# 1147
 Delta R.T. 0.02 min
 Lab File: BF078353.D
 Acq: 9 Apr 2015 00:22

Tgt Ion:202 Resp: 2013167
 Ion Ratio Lower Upper
 202 100
 101 10.7 0.0 35.2
 203 18.4 0.0 38.5





#75

Chrysene-d12

Concen: 20.00 ng

RT: 15.76 min Scan# 1301

Delta R.T. -0.01 min

Lab File: BF078353.D

Acq: 9 Apr 2015 00:22

Instrument :

BNA_F

ClientSampleId :

SB-3DA

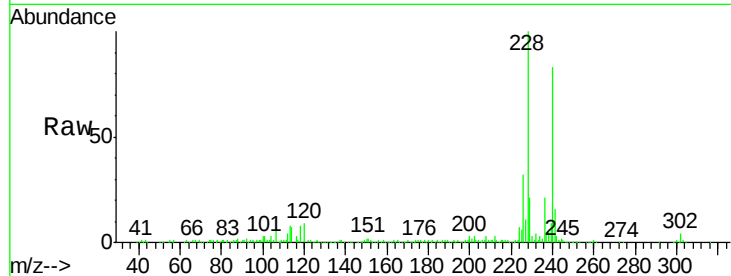
Tot Ion:240 Resp: 161061

Ion Ratio Lower Upper

240 100

120 11.4 7.1 10.7#

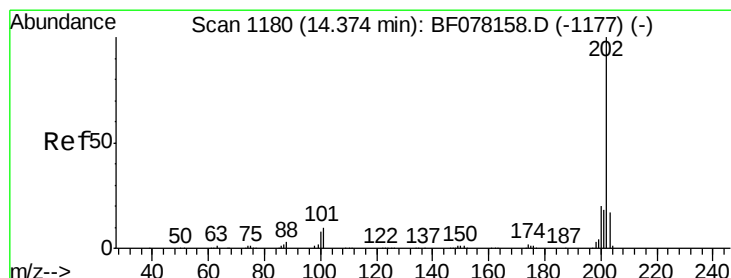
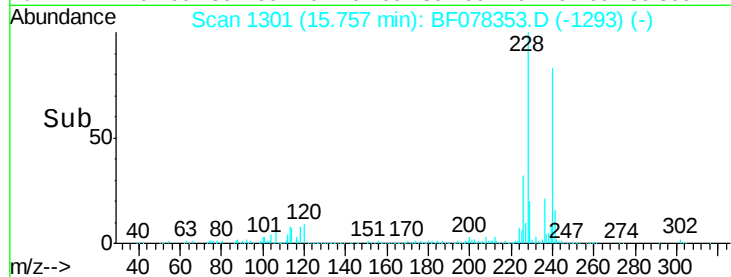
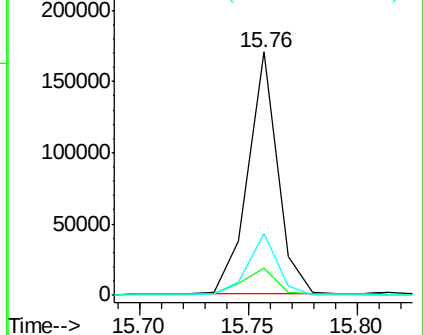
236 25.2 21.4 32.2



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: 269.49 ng

RT: 14.27 min Scan# 1171

Delta R.T. 0.02 min

Lab File: BF078353.D

Acq: 9 Apr 2015 00:22

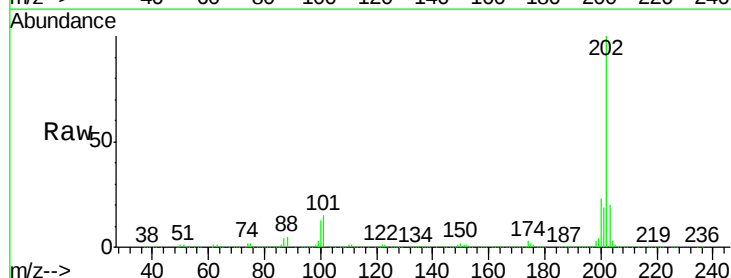
Tgt Ion:202 Resp: 2724752

Ion Ratio Lower Upper

202 100

200 23.2 16.3 24.5

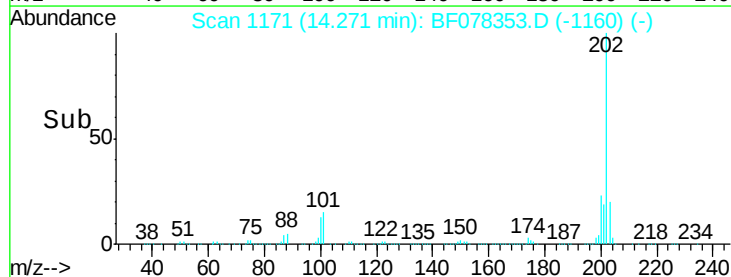
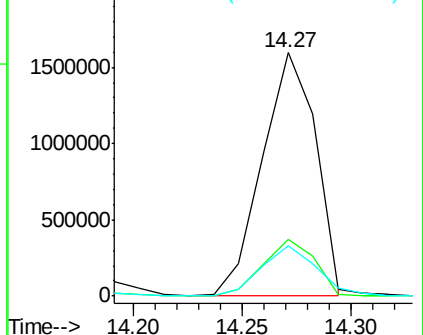
203 20.4 13.8 20.6

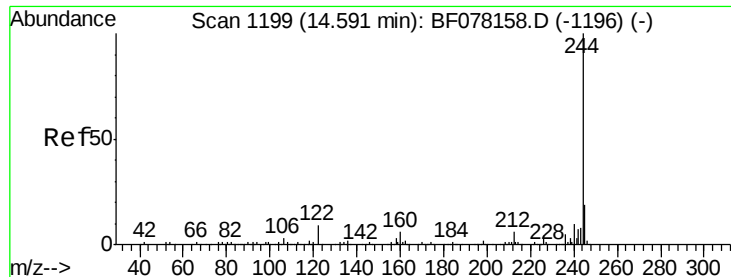


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 10.45 ng

RT: 14.48 min Scan# 1189

Delta R.T. 0.00 min

Lab File: BF078353.D

Acq: 9 Apr 2015 00:22

Instrument :

BNA_F

ClientSampled :

SB-3DA

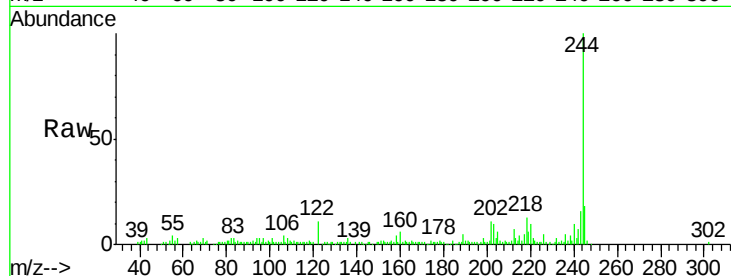
Tot Ion:244 Resp: 74492

Ion Ratio Lower Upper

244 100

212 6.7 5.0 7.4

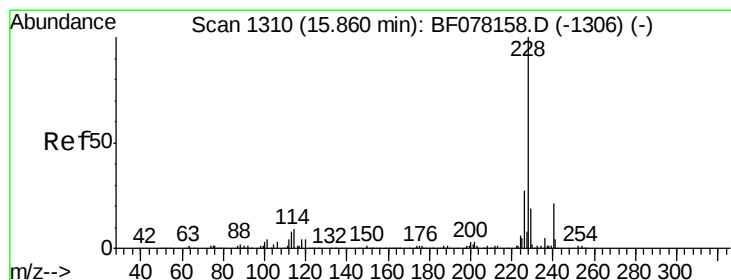
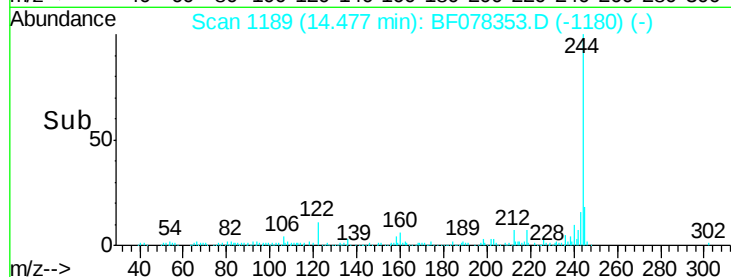
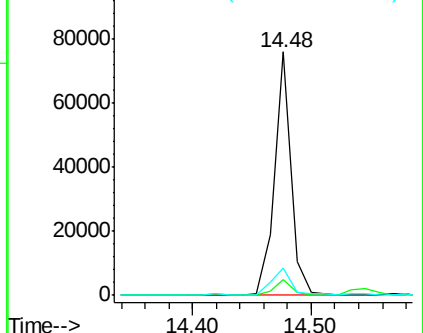
122 11.0 7.1 10.7#



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: 102.04 ng m

RT: 15.75 min Scan# 1300

Delta R.T. -0.01 min

Lab File: BF078353.D

Acq: 9 Apr 2015 00:22

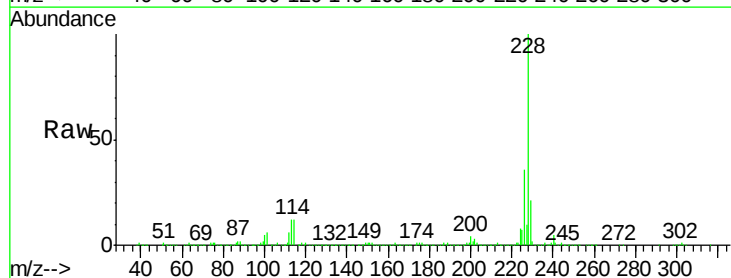
Tgt Ion:228 Resp: 977841

Ion Ratio Lower Upper

228 100

226 36.4 21.3 31.9#

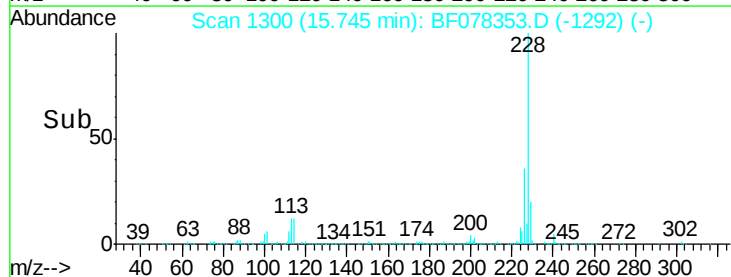
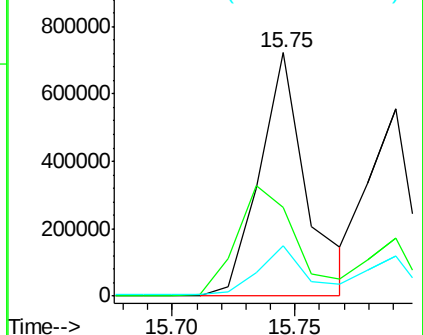
229 20.9 15.4 23.2

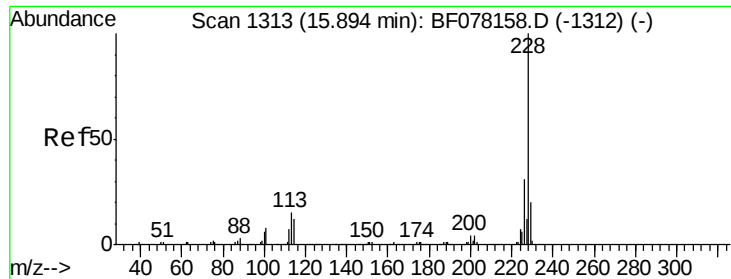


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 70.00 ng

RT: 15.79 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF078353.D

Acq: 9 Apr 2015 00:22

Instrument :

BNA_F

ClientSampled :

SB-3DA

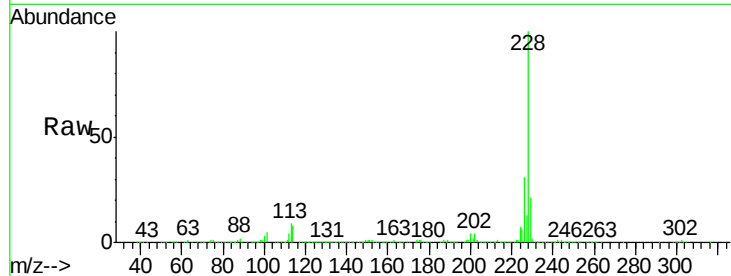
Tot Ion:228 Resp: 630238

Ion Ratio Lower Upper

228 100

226 30.8 24.2 36.4

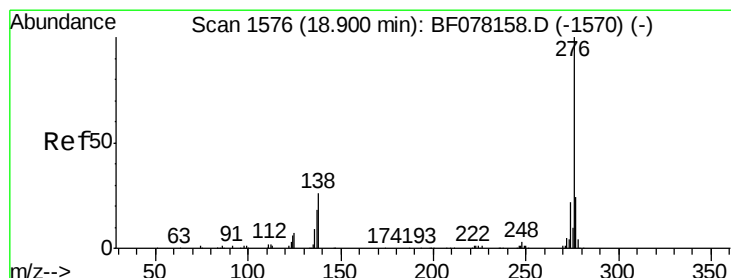
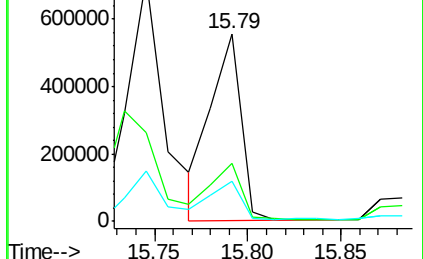
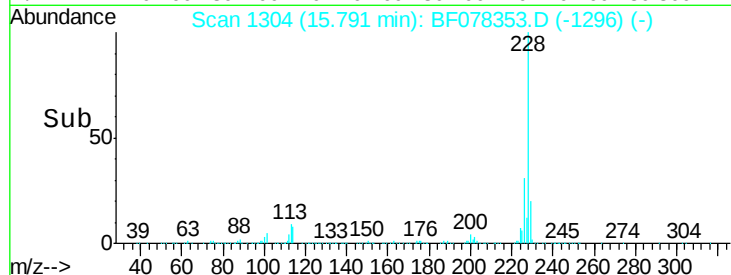
229 21.3 15.8 23.8



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: 31.90 ng m

RT: 18.73 min Scan# 1561

Delta R.T. -0.16 min

Lab File: BF078353.D

Acq: 9 Apr 2015 00:22

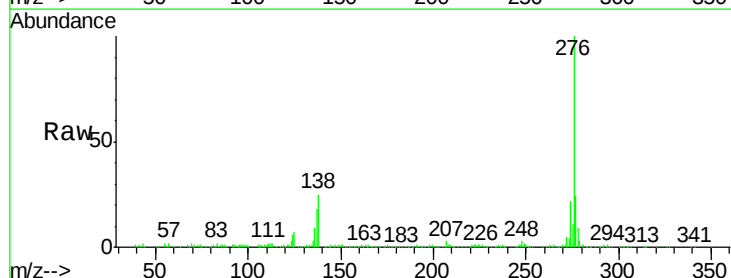
Tgt Ion:276 Resp: 325948

Ion Ratio Lower Upper

276 100

138 3.1 16.9 25.3#

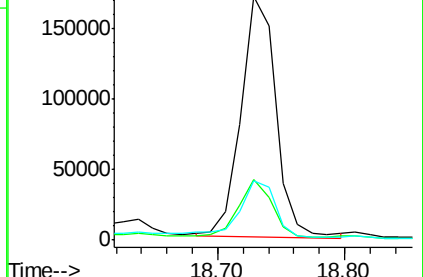
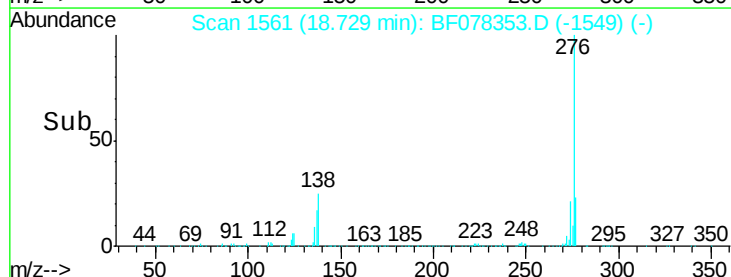
277 2.0 15.8 23.6#

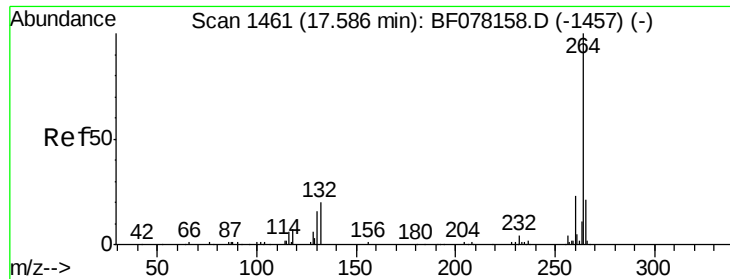


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.00 ng

RT: 17.46 min Scan# 1450

Delta R.T. -0.11 min

Lab File: BF078353.D

Acq: 9 Apr 2015 00:22

Instrument :

BNA_F

ClientSampleId :

SB-3DA

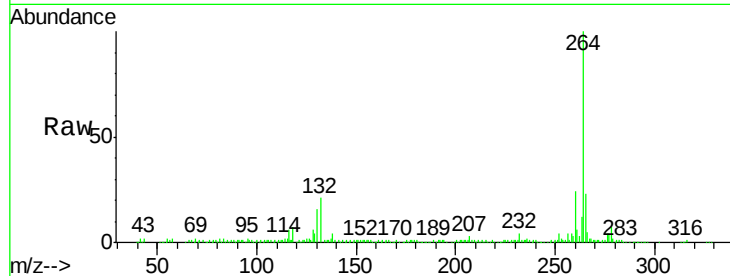
Tot Ion:264 Resp: 160323

Ion Ratio Lower Upper

264 100

260 24.1 18.6 27.8

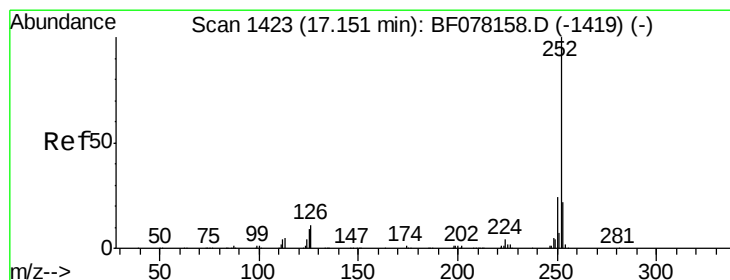
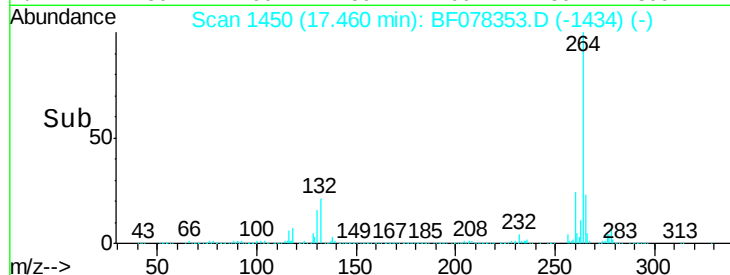
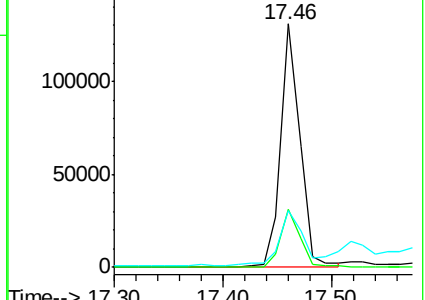
265 23.4 17.0 25.6



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: 70.21 ng

RT: 17.03 min Scan# 1412

Delta R.T. -0.08 min

Lab File: BF078353.D

Acq: 9 Apr 2015 00:22

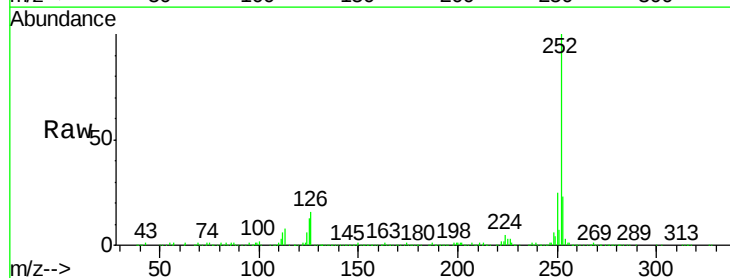
Tgt Ion:252 Resp: 695680

Ion Ratio Lower Upper

252 100

253 22.8 17.2 25.8

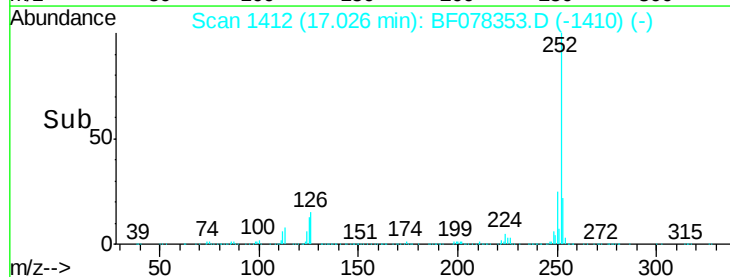
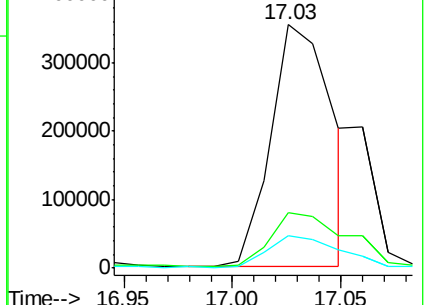
125 13.3 7.0 10.4#

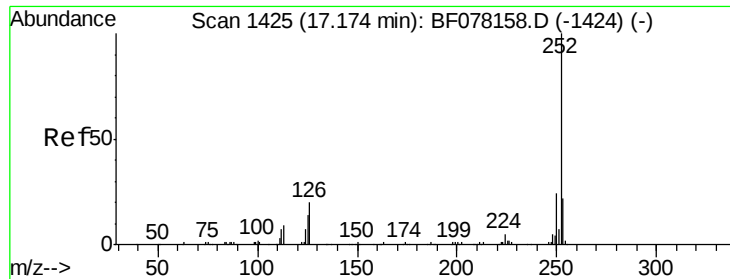


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

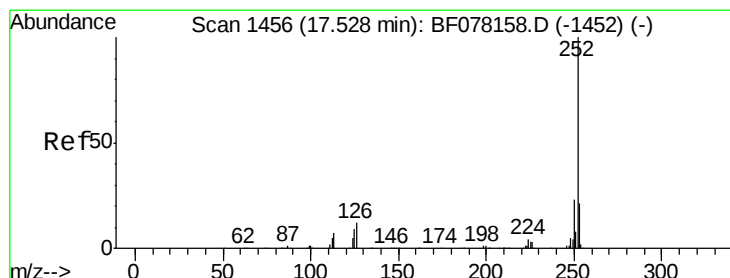
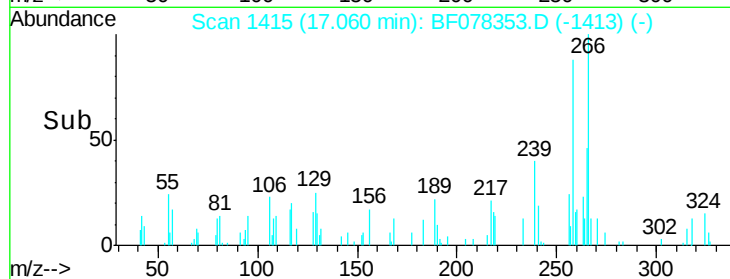
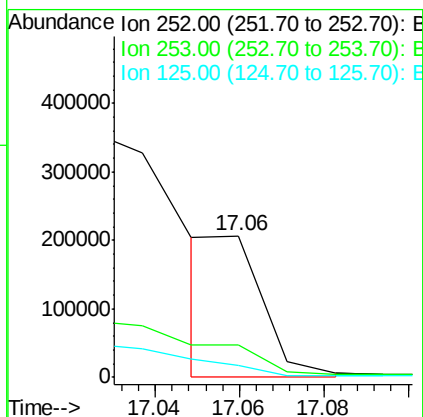
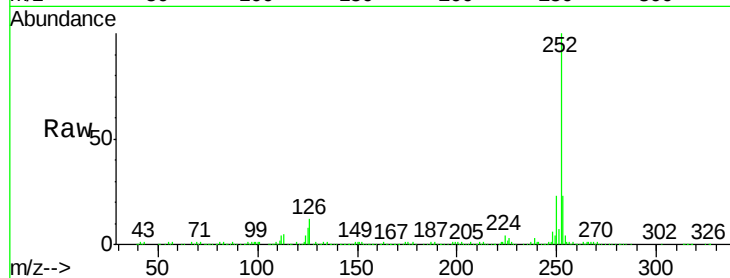




#88
Benzo(k)fluoranthene
Concen: 18.47 ng m
RT: 17.06 min Scan# 1415
Delta R.T. -0.08 min
Lab File: BF078353.D
Acq: 9 Apr 2015 00:22

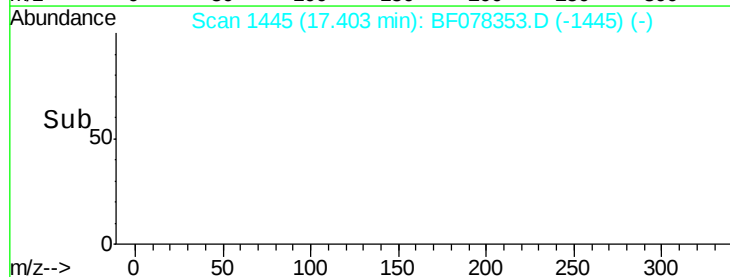
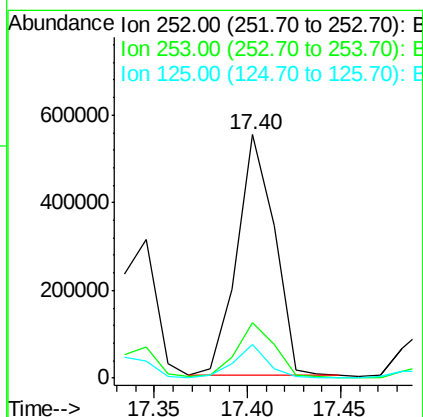
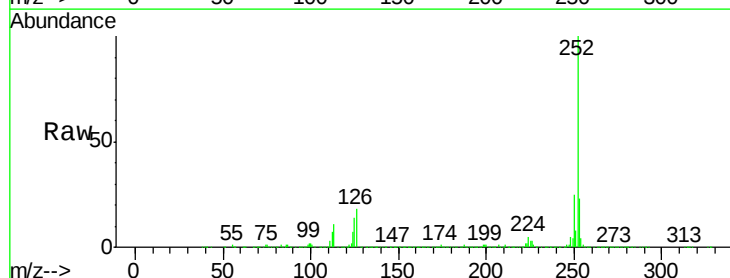
Instrument :
BNA_F
ClientSampleId :
SB-3DA

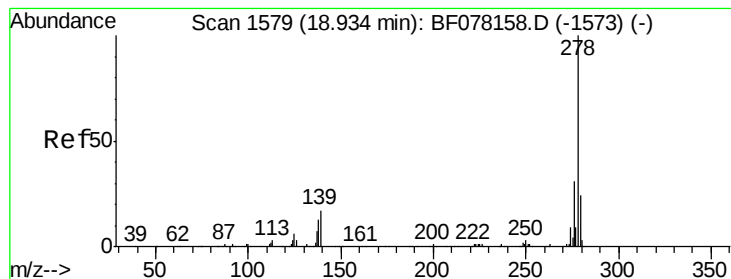
Tot Ion:252 Resp: 162595
Ion Ratio Lower Upper
252 100
253 23.2 17.5 26.3
125 8.2 11.6 17.4#



#89
Benzo(a)pyrene
Concen: 88.85 ng
RT: 17.40 min Scan# 1445
Delta R.T. -0.10 min
Lab File: BF078353.D
Acq: 9 Apr 2015 00:22

Tgt Ion:252 Resp: 768311
Ion Ratio Lower Upper
252 100
253 22.6 16.8 25.2
125 13.9 7.4 11.0#





#90

Dibenzo(a,h)anthracene

Concen: 6.64 ng/mL

RT: 18.75 min Scan# 1563

Delta R.T. -0.17 min

Lab File: BF078353.D

Acq: 9 Apr 2015 00:22

Instrument :

BNA_F

ClientSampleId :

SB-3DA

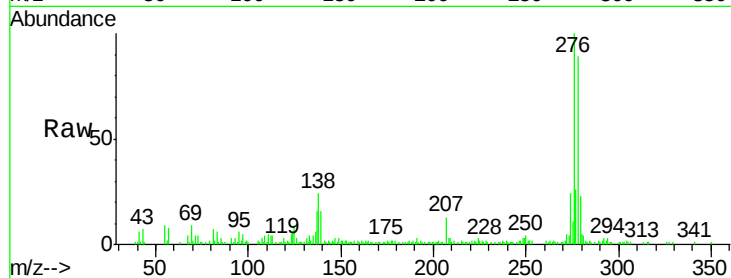
Tot Ion: 278 Resp: 57478

Ion Ratio Lower Upper

278 100

139 18.3 13.6 20.4

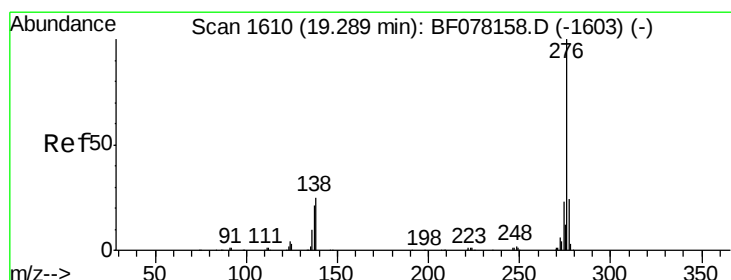
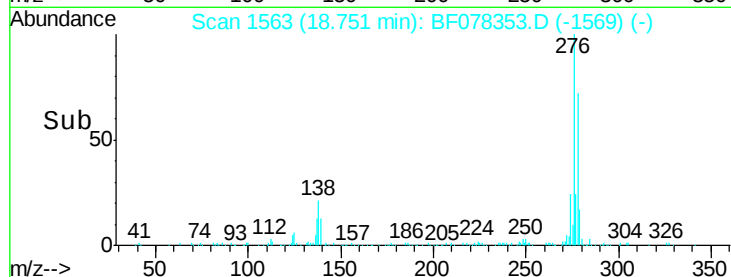
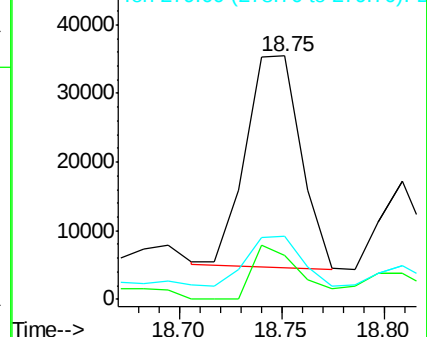
279 25.8 19.0 28.6



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#91

Benzo(g,h,i)perylene

Concen: 47.30 ng/mL

RT: 19.11 min Scan# 1594

Delta R.T. -0.15 min

Lab File: BF078353.D

Acq: 9 Apr 2015 00:22

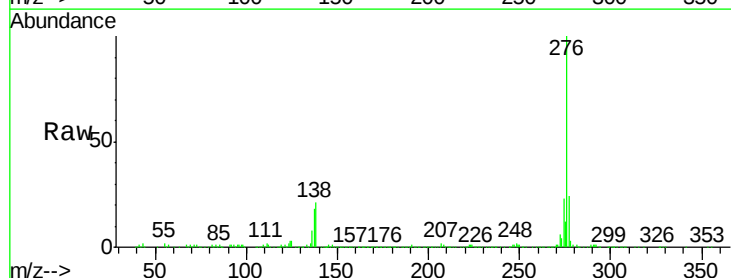
Tgt Ion: 276 Resp: 410544

Ion Ratio Lower Upper

276 100

277 23.8 19.0 28.4

138 21.5 19.9 29.9



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

