

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041415\
 Data File : BF078510.D
 Acq On : 14 Apr 2015 20:28
 Operator : TP/IZ
 Sample : G1828-07
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HS-SB02A

Quant Time: Apr 15 11:01:52 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Apr 15 01:10:59 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	18130	20.00	ng	0.00
21) Naphthalene-d8	8.39	136	76716	20.00	ng	0.00
38) Acenaphthene-d10	10.54	164	42039	20.00	ng	0.00
63) Phenanthrene-d10	12.37	188	87447	20.00	ng	0.00
75) Chrysene-d12	15.65	240	100437	20.00	ng	-0.01
86) Perylene-d12	17.44	264	110857	20.00	ng	-0.05

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.06	112	32352	29.42	ng	0.01
7) Phenol-d6	6.41	99	62881	45.63	ng	0.00
23) Nitrobenzene-d5	7.51	82	46504	36.74	ng	0.00
41) 2,4,6-Tribromophenol	11.52	330	29565	84.80	ng	0.00
44) 2-Fluorobiphenyl	9.74	172	118304	40.23	ng	0.00
78) Terphenyl-d14	14.35	244	233248	52.48	ng	0.00

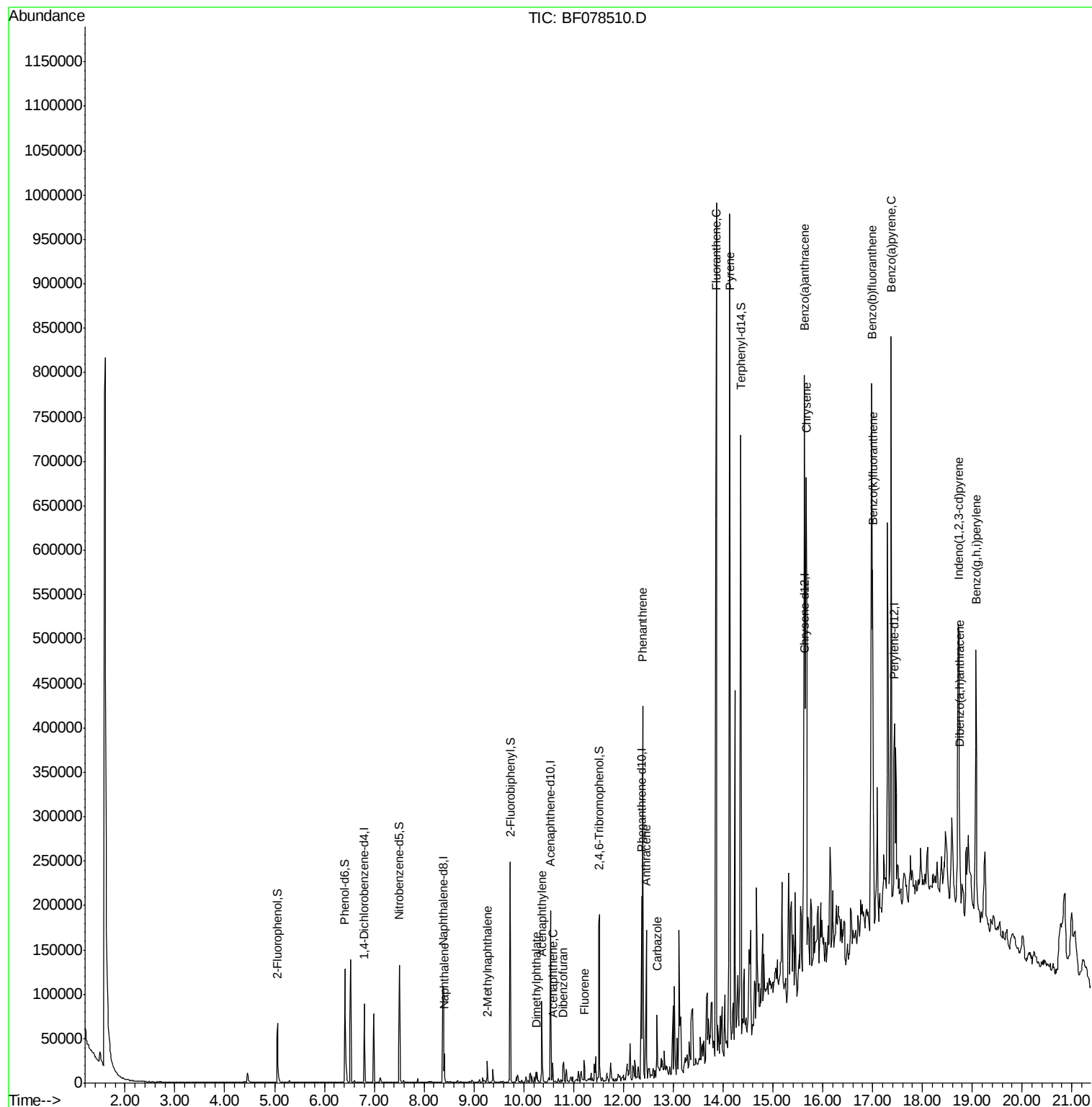
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.41	128	16620	4.16	ng	99
37) 2-Methylnaphthalene	9.27	142	7631	2.81	ng	99
48) Acenaphthylene	10.36	152	42538	9.74	ng	98
49) Dimethylphthalate	10.25	163	7724	2.45	ng	# 97
51) Acenaphthene	10.58	154	5889	2.39	ng	99
54) Dibenzofuran	10.80	168	13384	3.56	ng	94
57) Fluorene	11.21	166	9723	3.19	ng	# 93
70) Phenanthrene	12.39	178	201758	39.89	ng	99
71) Anthracene	12.46	178	71510	14.35	ng	99
72) Carbazole	12.67	167	23944	5.13	ng	98
74) Fluoranthene	13.86	202	493677	92.54	ng	93
77) Pyrene	14.14	202	492980	78.19	ng	98
80) Benzo(a)anthracene	15.63	228	315361	52.77	ng	97
82) Chrysene	15.67	228	293288	52.24	ng	98
85) Indeno(1,2,3-cd)pyrene	18.72	276	231473	36.33	ng	# 88
87) Benzo(b)fluoranthene	16.98	252	439482m	64.15	ng	
88) Benzo(k)fluoranthene	17.01	252	153844m	25.27	ng	
89) Benzo(a)pyrene	17.37	252	303131	50.70	ng	# 94
90) Dibenzo(a,h)anthracene	18.74	278	54951m	9.18	ng	
91) Benzo(g,h,i)perylene	19.07	276	214420	35.72	ng	99

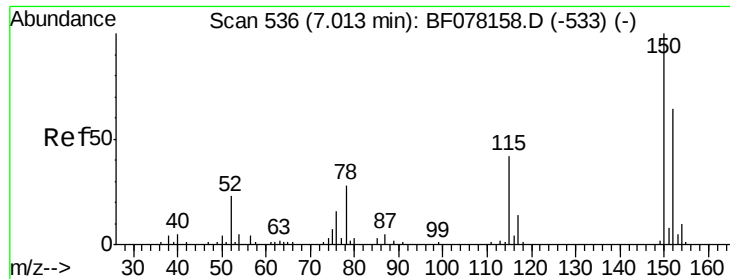
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.80 min Scan# 491

Delta R.T. -0.00 min

Lab File: BF078510.D

Acq: 14 Apr 2015 20:28

Instrument :

BNA_F

ClientSampleId :

HS-SB02A

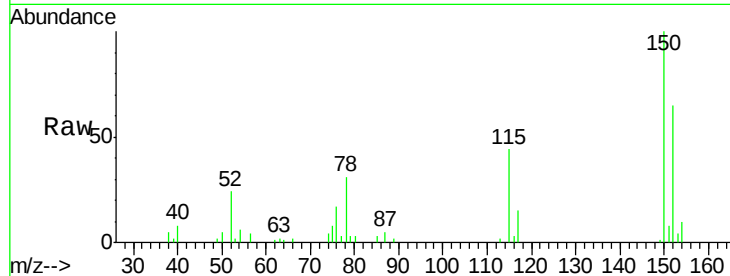
Tgt Ion:152 Resp: 18130

Ion Ratio Lower Upper

152 100

150 153.6 125.9 188.9

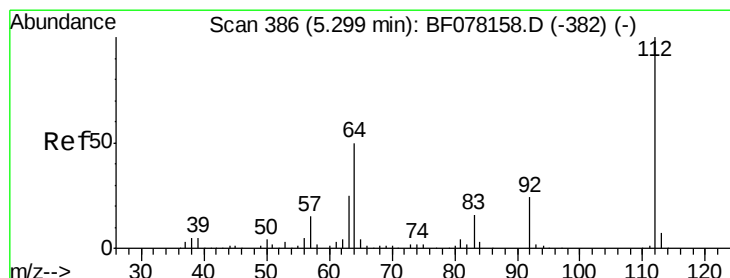
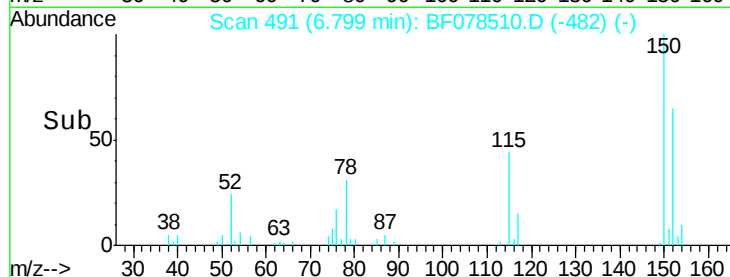
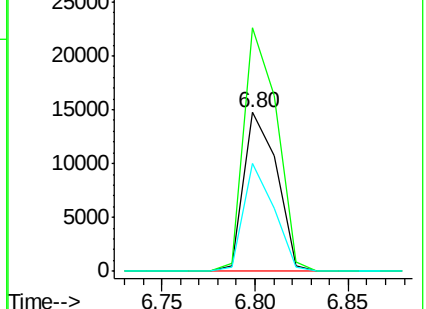
115 67.9 52.7 79.1



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



#5

2-Fluorophenol

Concen: 29.42 ng

RT: 5.06 min Scan# 339

Delta R.T. 0.01 min

Lab File: BF078510.D

Acq: 14 Apr 2015 20:28

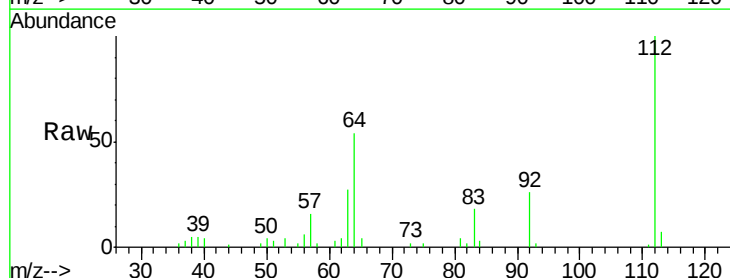
Tgt Ion:112 Resp: 32352

Ion Ratio Lower Upper

112 100

64 54.3 39.9 59.9

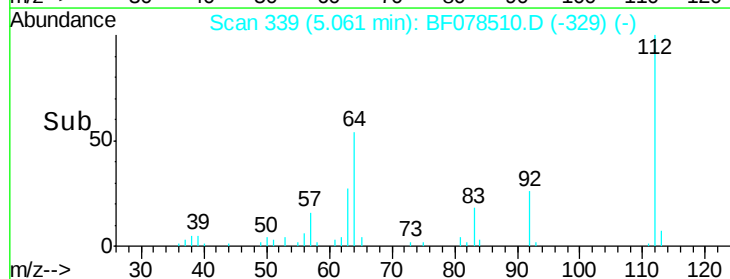
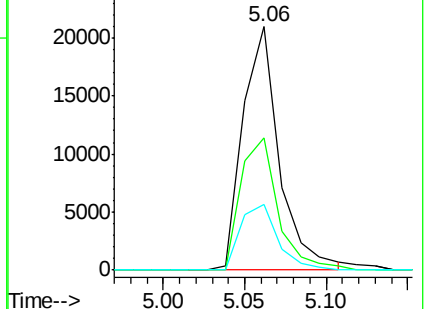
63 27.1 20.2 30.4



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: 45.63 ng

RT: 6.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: BF078510.D

Acq: 14 Apr 2015 20:28

Instrument :

BNA_F

ClientSampleId :

HS-SB02A

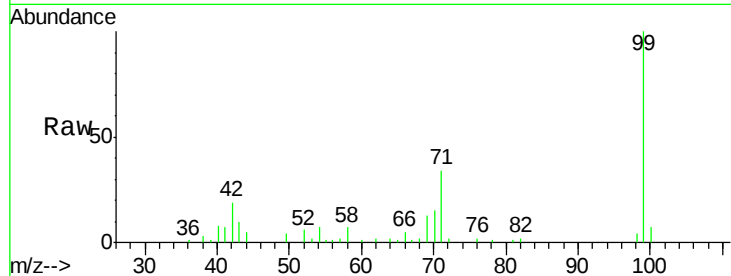
Tgt Ion: 99 Resp: 62881

Ion Ratio Lower Upper

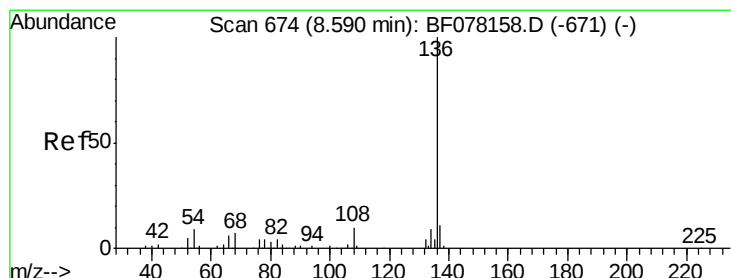
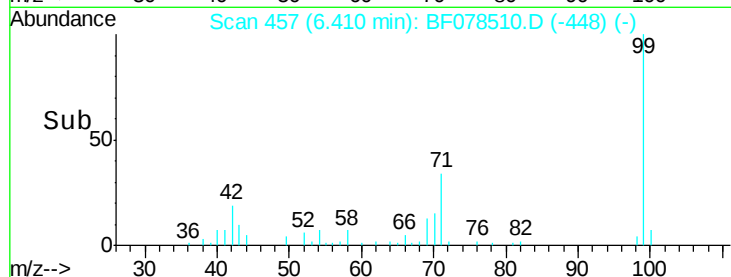
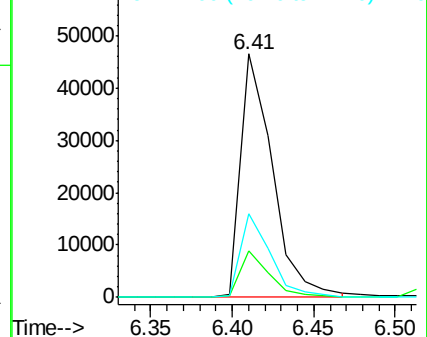
99 100

42 18.9 14.8 22.2

71 34.1 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: 8.39 min Scan# 630

Delta R.T. -0.00 min

Lab File: BF078510.D

Acq: 14 Apr 2015 20:28

Tgt Ion: 136 Resp: 76716

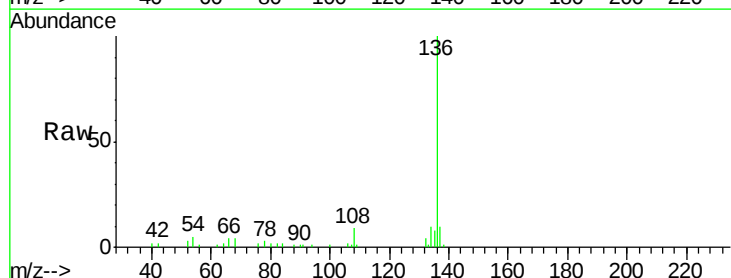
Ion Ratio Lower Upper

136 100

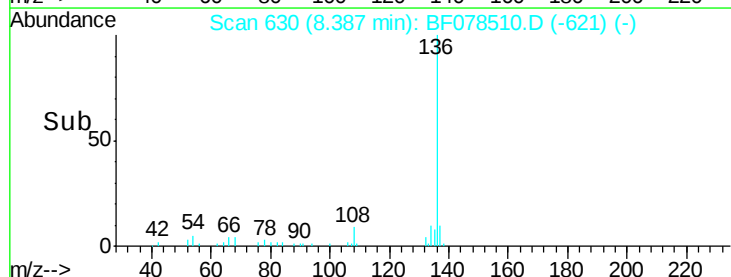
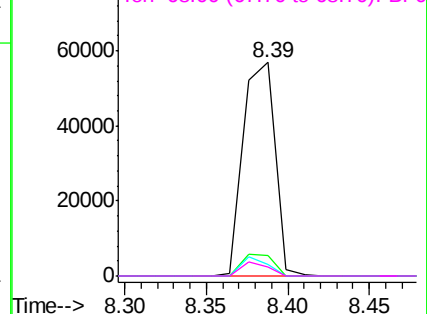
137 9.9 9.0 13.4

54 5.1 7.0 10.6#

68 4.4 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

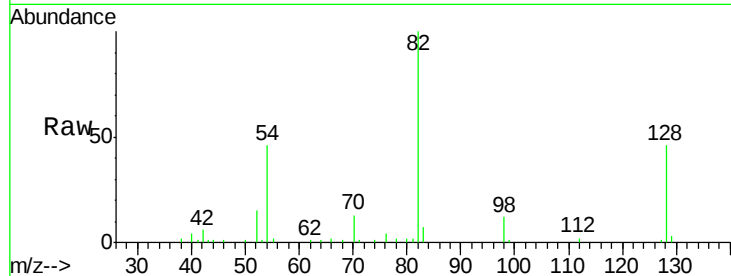




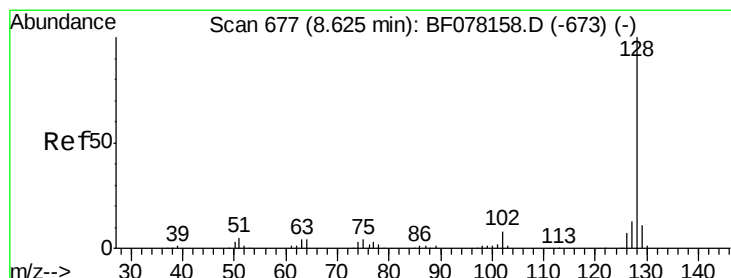
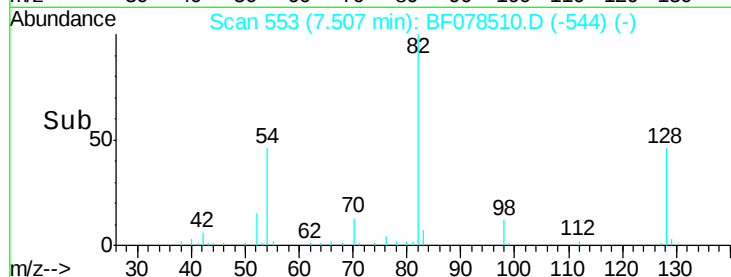
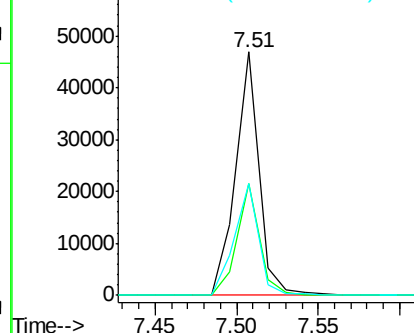
#23
Nitrobenzene-d5
Concen: 36.74 ng
RT: 7.51 min Scan# 553
Delta R.T. -0.00 min
Lab File: BF078510.D
Acq: 14 Apr 2015 20:28

Instrument :
BNA_F
ClientSampleId :
HS-SB02A

Tgt Ion: 82 Resp: 46504
Ion Ratio Lower Upper
82 100
128 46.1 31.8 47.8
54 45.8 41.5 62.3

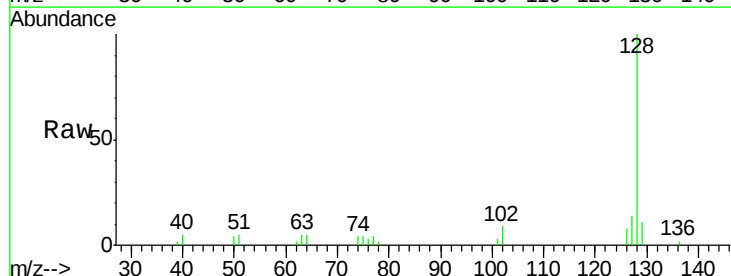


Abundance Ion 82.00 (81.70 to 82.70): BF0
Ion 128.00 (127.70 to 128.70): E
Ion 54.00 (53.70 to 54.70): BF0

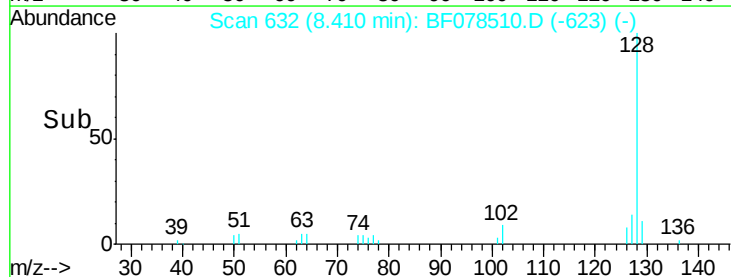
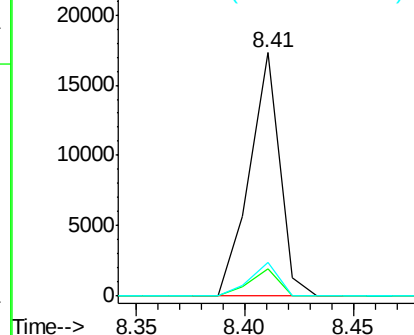


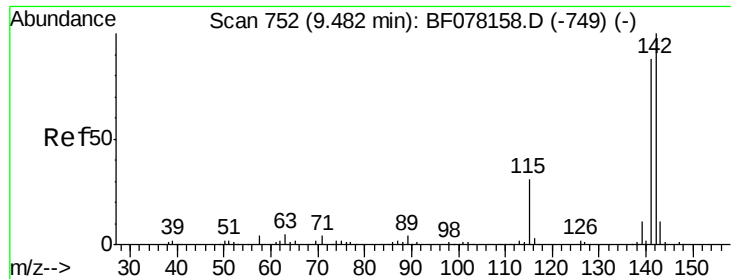
#31
Naphthalene
Concen: 4.16 ng
RT: 8.41 min Scan# 632
Delta R.T. -0.00 min
Lab File: BF078510.D
Acq: 14 Apr 2015 20:28

Tgt Ion: 128 Resp: 16620
Ion Ratio Lower Upper
128 100
129 11.5 8.6 12.8
127 13.8 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

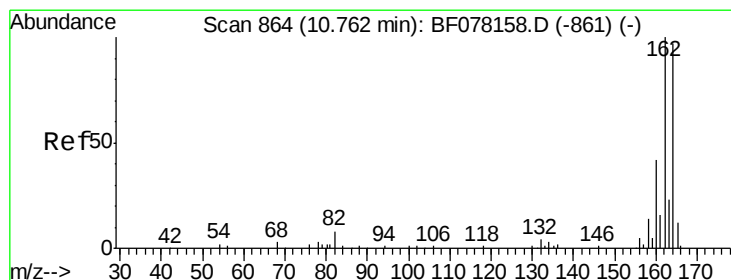
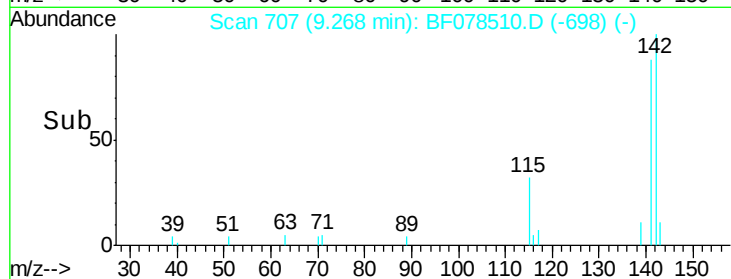
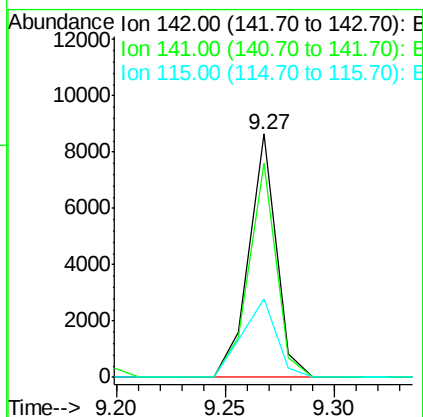
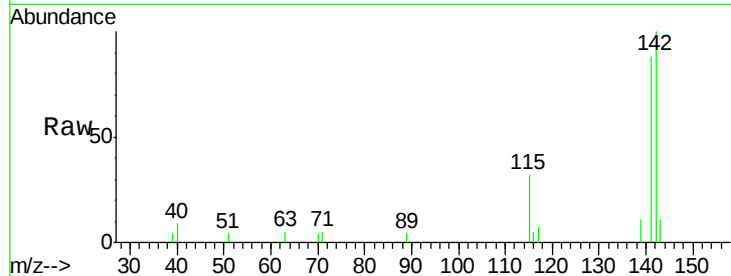




#37
 2-Methylnaphthalene
 Concen: 2.81 ng
 RT: 9.27 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: BF078510.D
 Acq: 14 Apr 2015 20:28

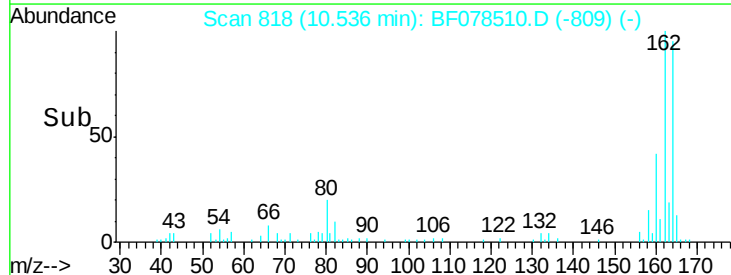
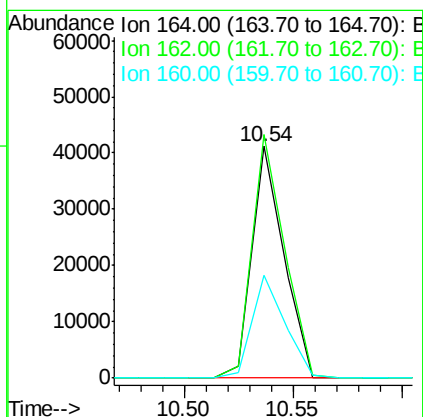
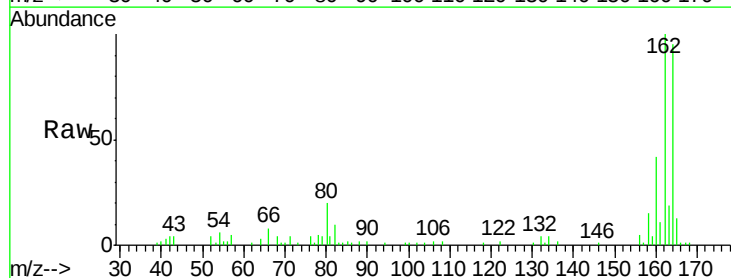
Instrument :
 BNA_F
 ClientSampleId :
 HS-SB02A

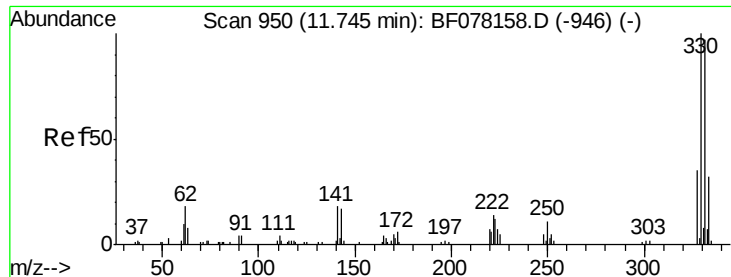
Tgt Ion:142 Resp: 7631
 Ion Ratio Lower Upper
 142 100
 141 87.9 70.3 105.5
 115 32.3 24.6 37.0



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.54 min Scan# 818
 Delta R.T. -0.00 min
 Lab File: BF078510.D
 Acq: 14 Apr 2015 20:28

Tgt Ion:164 Resp: 42039
 Ion Ratio Lower Upper
 164 100
 162 105.0 82.2 123.2
 160 44.1 34.7 52.1

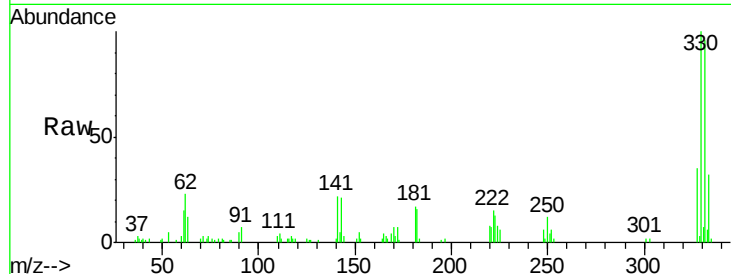




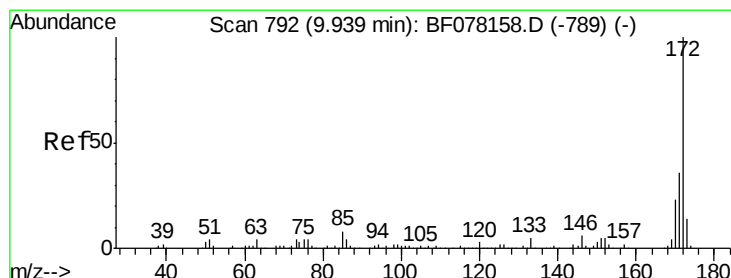
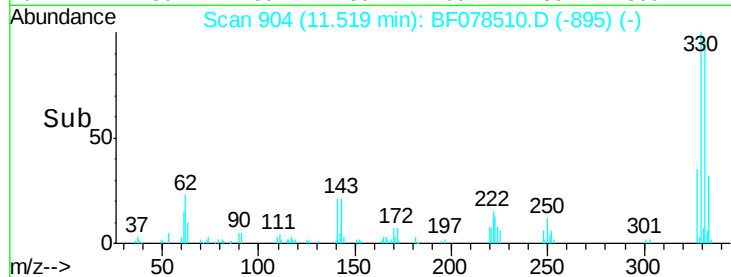
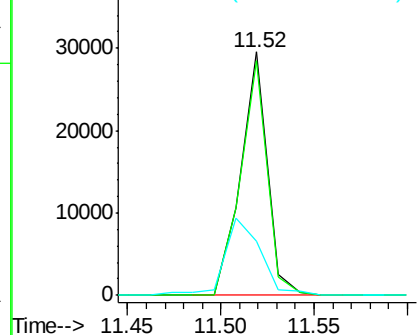
#41
 2,4,6-Tribromophenol
 Concen: 84.80 ng
 RT: 11.52 min Scan# 904
 Delta R.T. -0.00 min
 Lab File: BF078510.D
 Acq: 14 Apr 2015 20:28

Instrument :
 BNA_F
 ClientSampleId :
 HS-SB02A

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.9	78.6	117.8
141	42.3	31.2	46.8

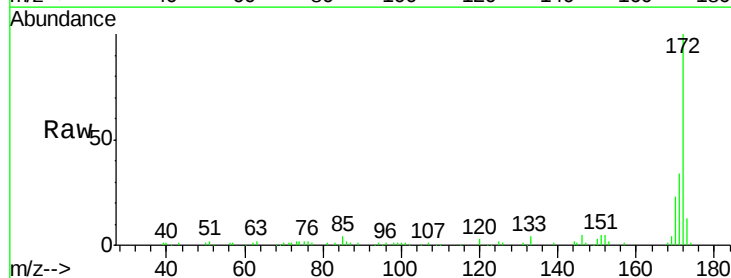


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

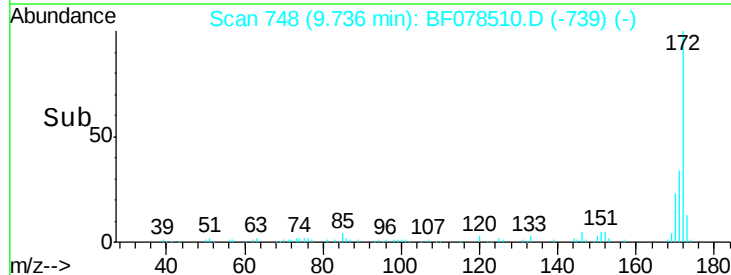
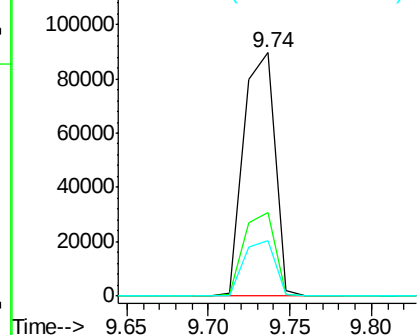


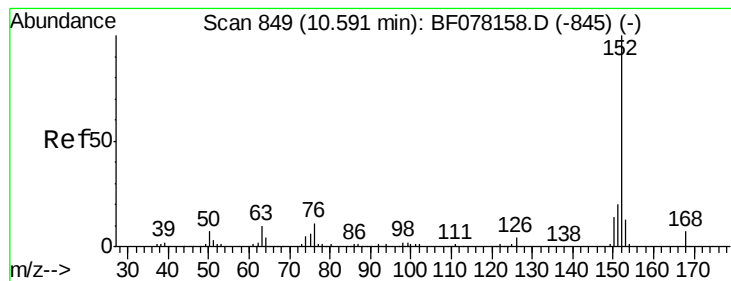
#44
 2-Fluorobiphenyl
 Concen: 40.23 ng
 RT: 9.74 min Scan# 748
 Delta R.T. -0.00 min
 Lab File: BF078510.D
 Acq: 14 Apr 2015 20:28

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.5	28.6	42.8
170	22.8	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





#48

Acenaphthylene

Concen: 9.74 ng

RT: 10.36 min Scan# 803

Delta R.T. -0.00 min

Lab File: BF078510.D

Acq: 14 Apr 2015 20:28

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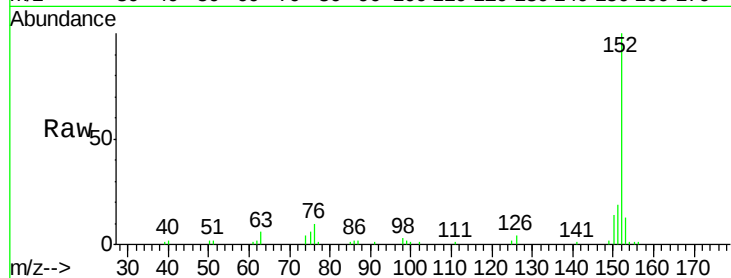
Tgt Ion:152 Resp: 42538

Ion Ratio Lower Upper

152 100

151 18.8 15.7 23.5

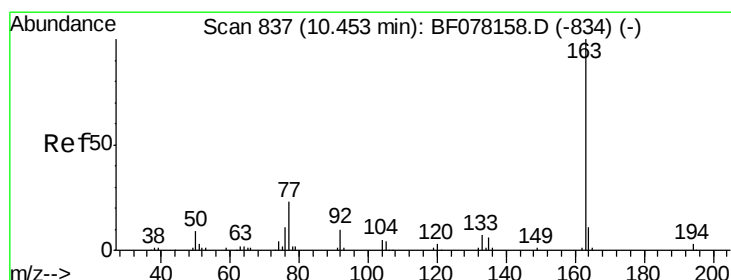
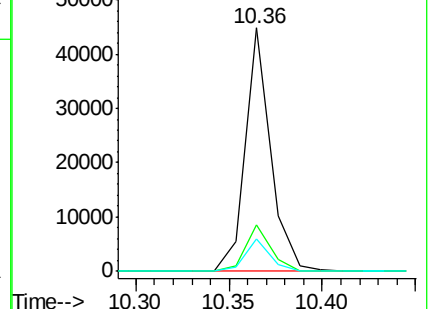
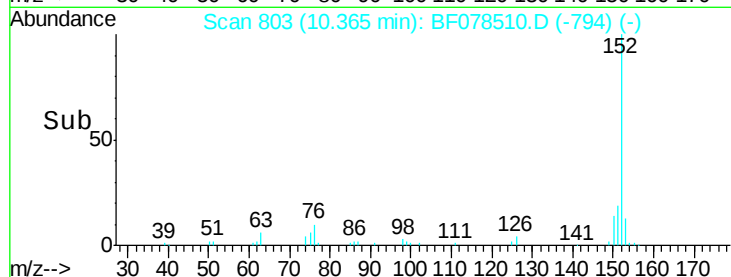
153 13.4 10.2 15.2



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



#49

Dimethylphthalate

Concen: 2.45 ng

RT: 10.25 min Scan# 793

Delta R.T. -0.00 min

Lab File: BF078510.D

Acq: 14 Apr 2015 20:28

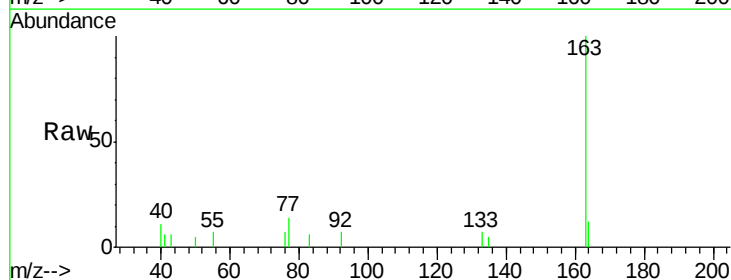
Tgt Ion:163 Resp: 7724

Ion Ratio Lower Upper

163 100

194 0.0 2.3 3.5#

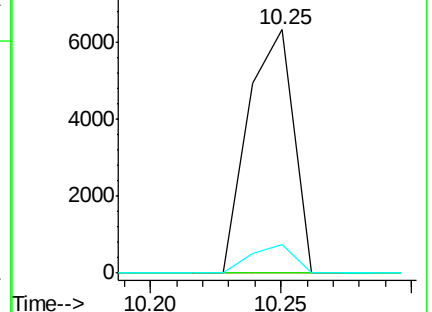
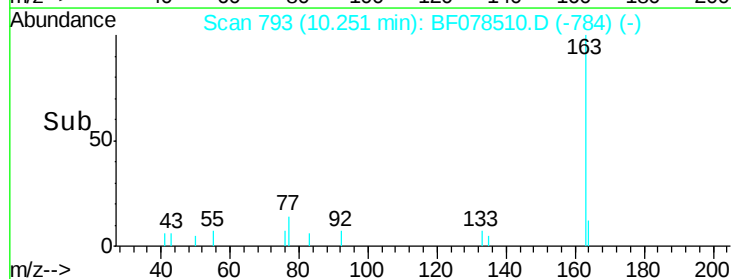
164 11.6 8.6 13.0

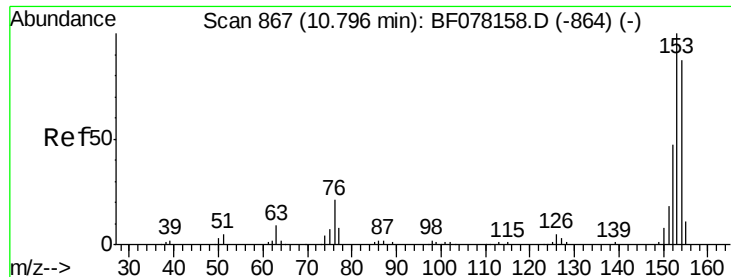


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 2.39 ng

RT: 10.58 min Scan# 822

Delta R.T. -0.00 min

Lab File: BF078510.D

Acq: 14 Apr 2015 20:28

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ClientSampleId :

HS-SB02A

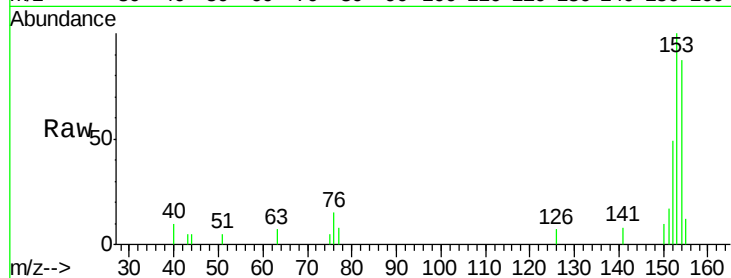
Tgt Ion:154 Resp: 5889

Ion Ratio Lower Upper

154 100

153 114.8 91.4 137.2

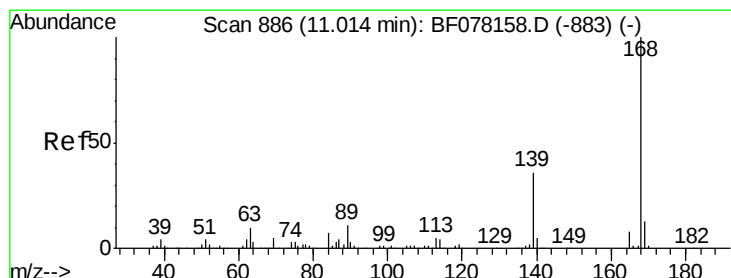
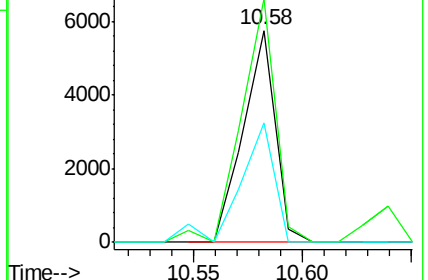
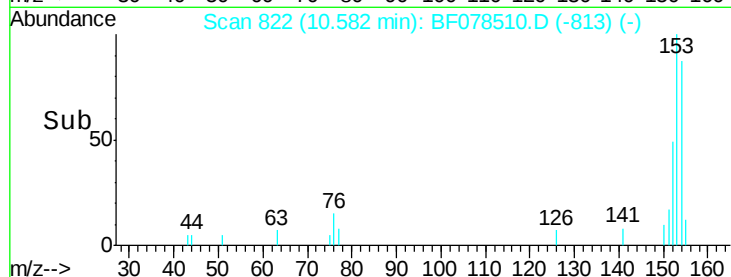
152 56.1 43.0 64.6



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: 3.56 ng

RT: 10.80 min Scan# 841

Delta R.T. -0.00 min

Lab File: BF078510.D

Acq: 14 Apr 2015 20:28

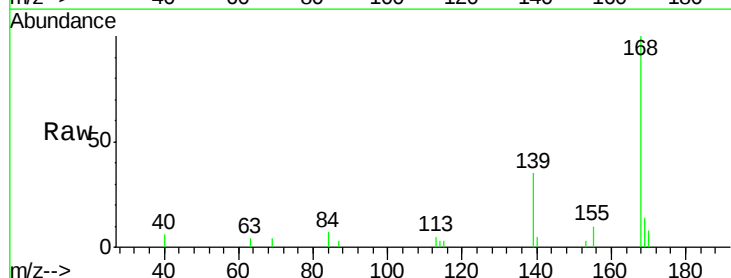
Tgt Ion:168 Resp: 13384

Ion Ratio Lower Upper

168 100

139 34.7 31.0 46.4

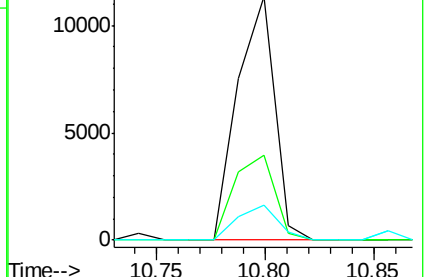
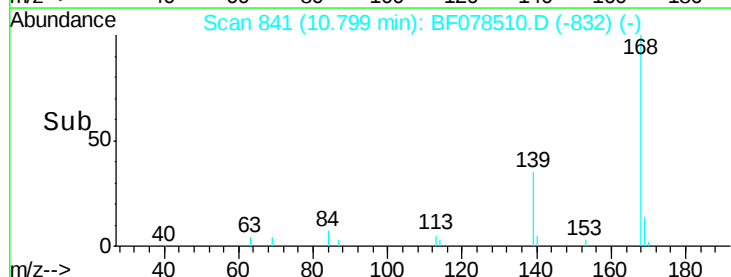
169 14.4 10.7 16.1

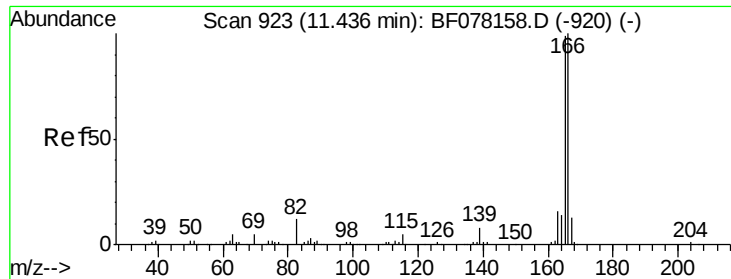


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

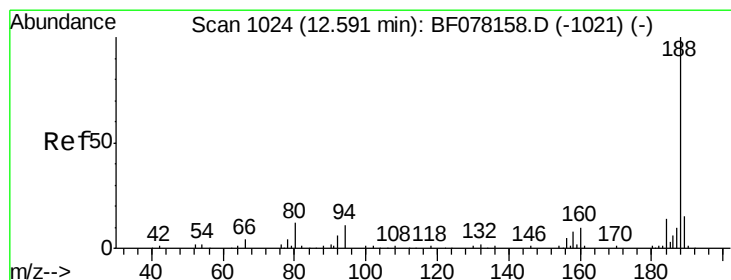
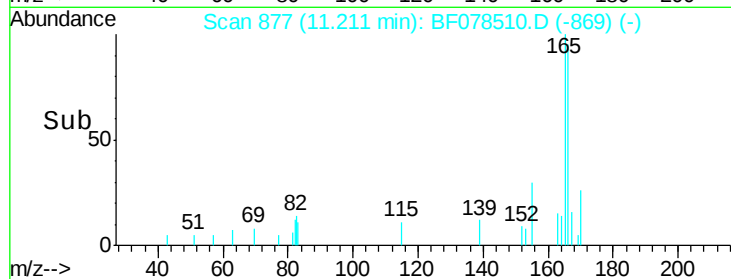
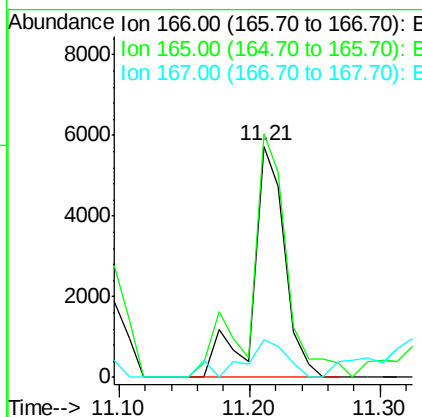
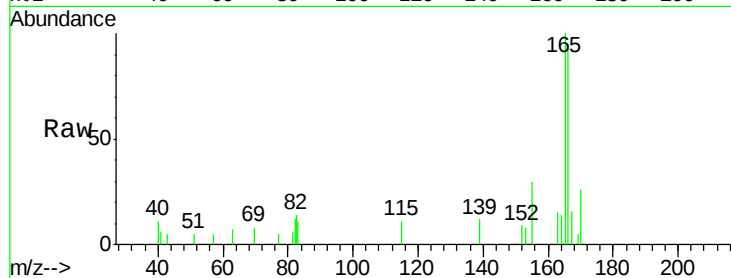




#57
 Fluorene
 Concen: 3.19 ng
 RT: 11.21 min Scan# 877
 Delta R.T. -0.01 min
 Lab File: BF078510.D
 Acq: 14 Apr 2015 20:28

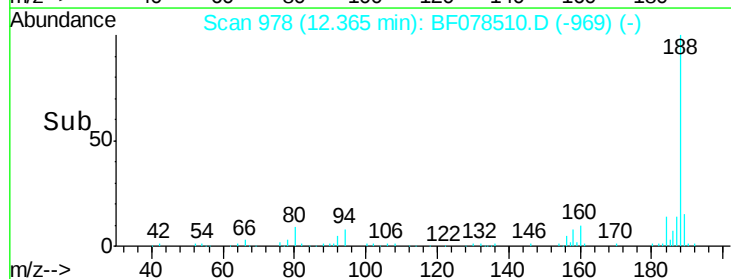
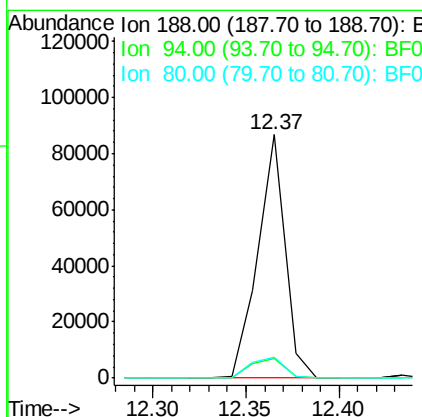
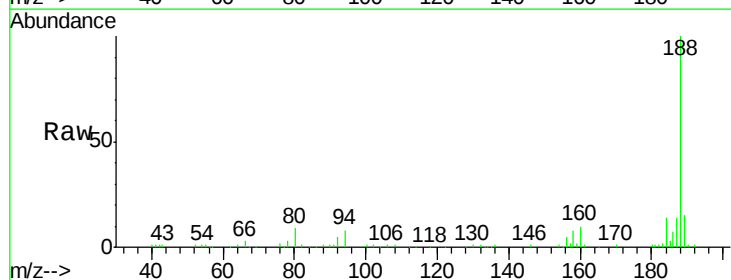
Instrument :
 BNA_F
 ClientSampleId :
 HS-SB02A

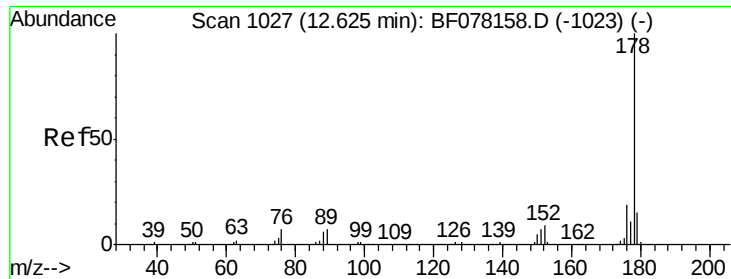
Tgt Ion:166 Resp: 9723
 Ion Ratio Lower Upper
 166 100
 165 105.4 78.9 118.3
 167 16.4 10.7 16.1#



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.37 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: BF078510.D
 Acq: 14 Apr 2015 20:28

Tgt Ion:188 Resp: 87447
 Ion Ratio Lower Upper
 188 100
 94 8.3 9.0 13.4#
 80 8.8 9.5 14.3#

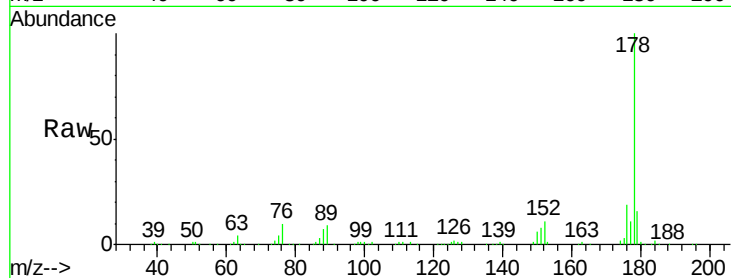




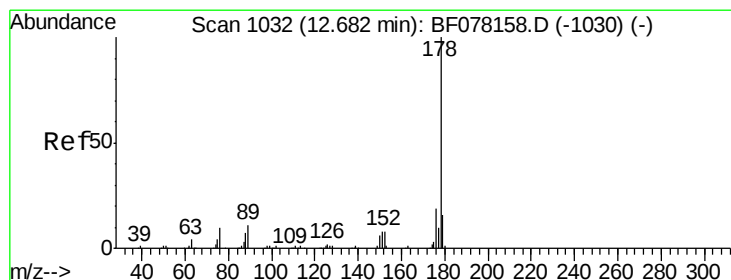
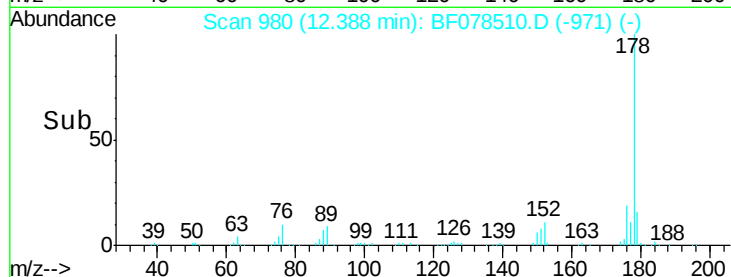
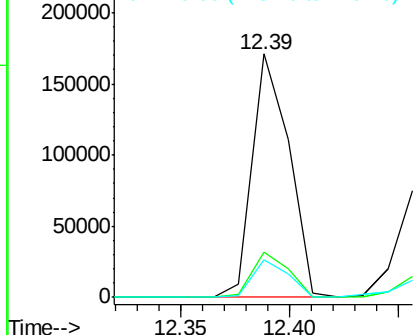
#70
 Phenanthrene
 Concen: 39.89 ng
 RT: 12.39 min Scan# 980
 Delta R.T. -0.00 min
 Lab File: BF078510.D
 Acq: 14 Apr 2015 20:28

Instrument :
 BNA_F
 ClientSampleId :
 HS-SB02A

Tgt Ion:178 Resp: 201758
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.4 23.0
 179 15.7 12.2 18.2

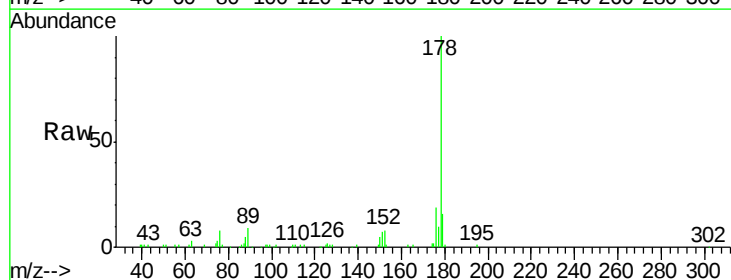


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

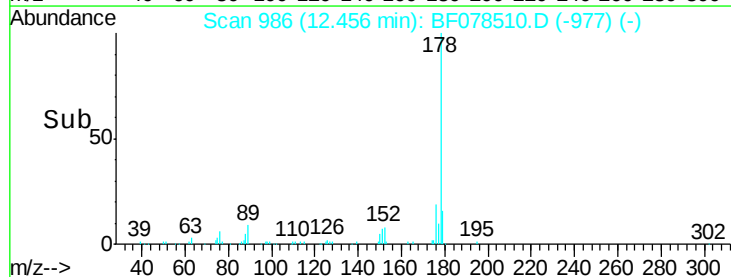
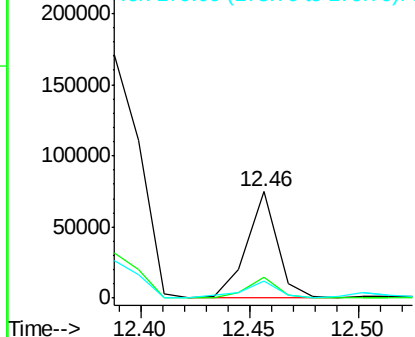


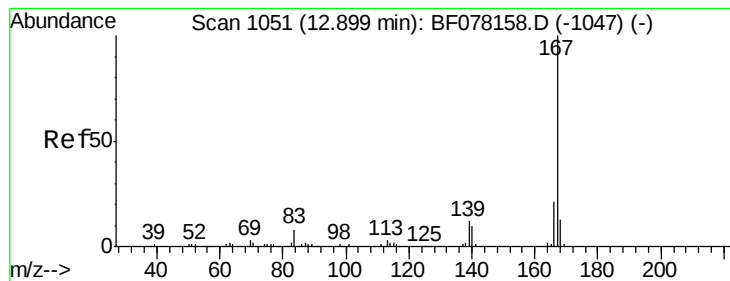
#71
 Anthracene
 Concen: 14.35 ng
 RT: 12.46 min Scan# 986
 Delta R.T. -0.00 min
 Lab File: BF078510.D
 Acq: 14 Apr 2015 20:28

Tgt Ion:178 Resp: 71510
 Ion Ratio Lower Upper
 178 100
 176 19.4 14.8 22.2
 179 15.7 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





#72

Carbazole

Concen: 5.13 ng

RT: 12.67 min Scan# 1005

Delta R.T. -0.00 min

Lab File: BF078510.D

Acq: 14 Apr 2015 20:28

Instrument :

BNA_F

ClientSampleId :

HS-SB02A

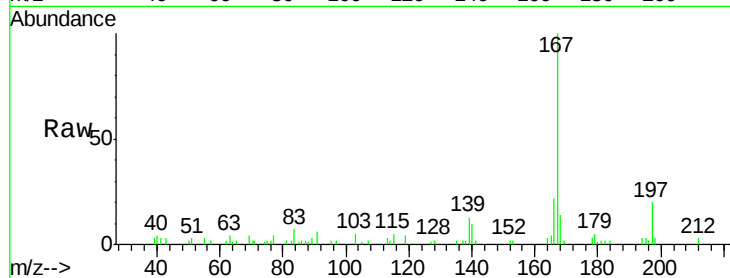
Tgt Ion:167 Resp: 23944

Ion Ratio Lower Upper

167 100

166 22.2 16.8 25.2

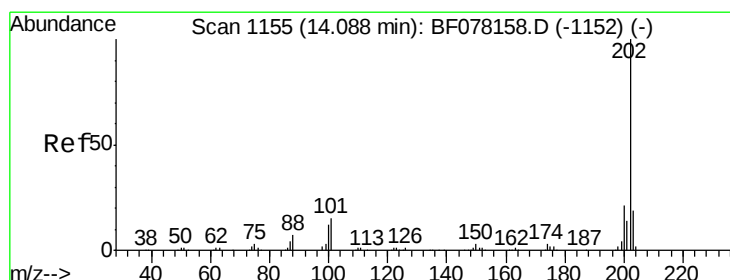
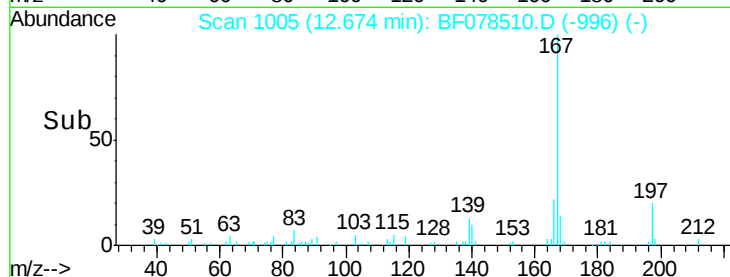
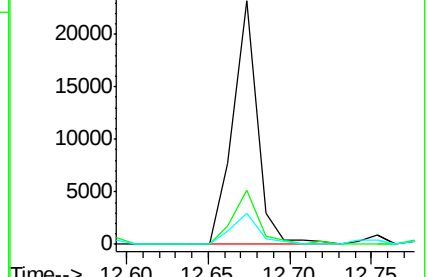
139 12.7 10.0 15.0



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 92.54 ng

RT: 13.86 min Scan# 1109

Delta R.T. 0.01 min

Lab File: BF078510.D

Acq: 14 Apr 2015 20:28

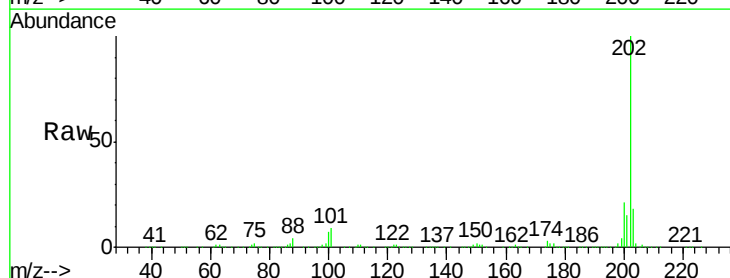
Tgt Ion:202 Resp: 493677

Ion Ratio Lower Upper

202 100

101 9.5 0.0 35.2

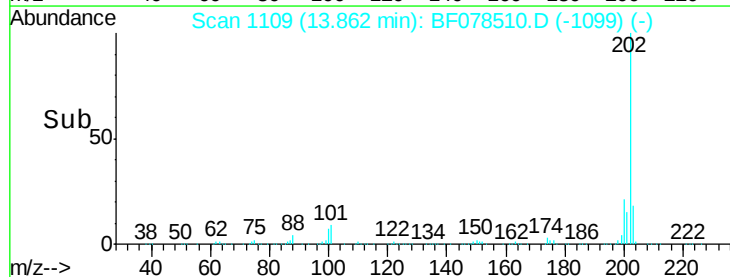
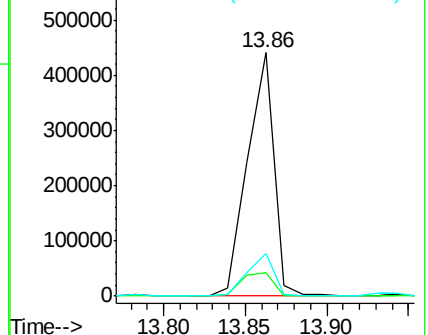
203 17.7 0.0 38.5

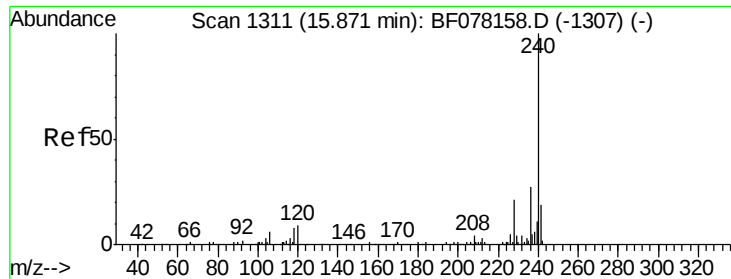


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

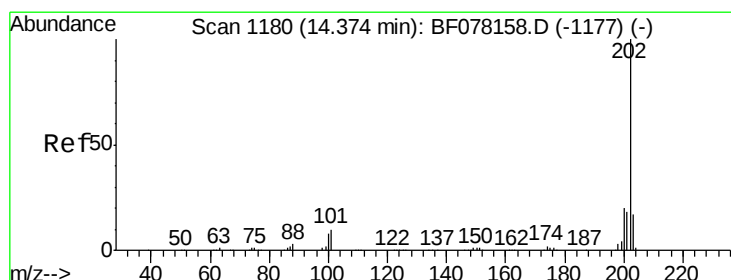
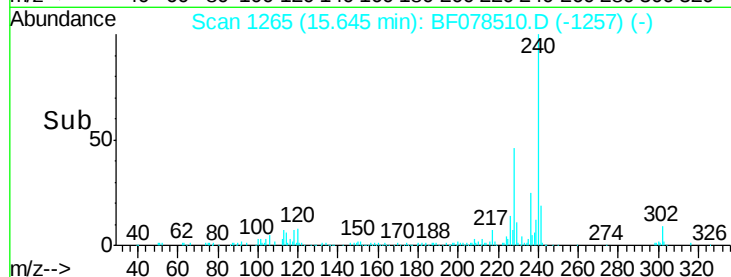
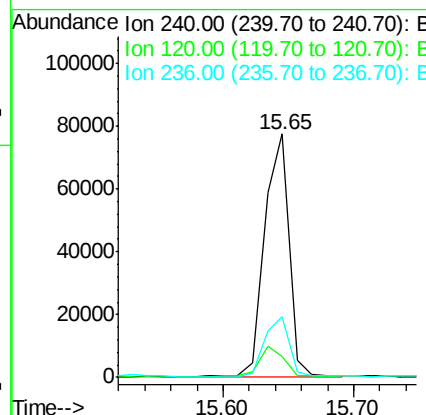
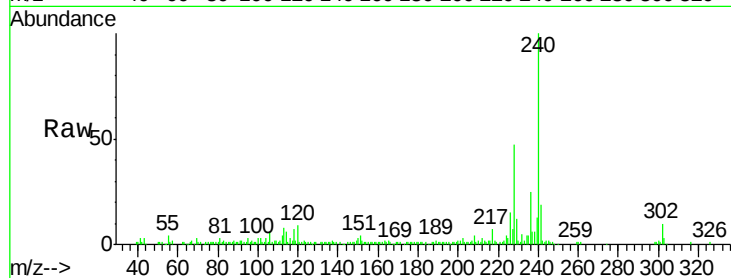




#75
Chrysene-d12
Concen: 20.00 ng
RT: 15.65 min Scan# 1265
Delta R.T. -0.01 min
Lab File: BF078510.D
Acq: 14 Apr 2015 20:28

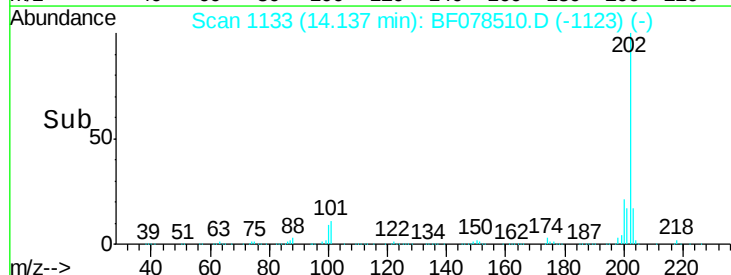
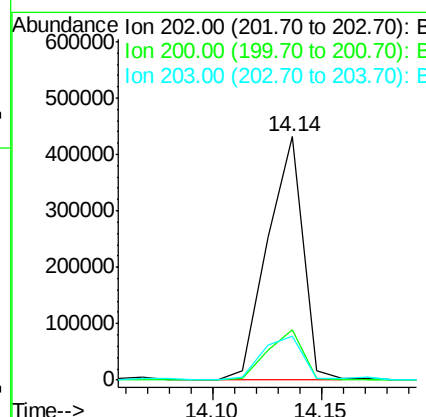
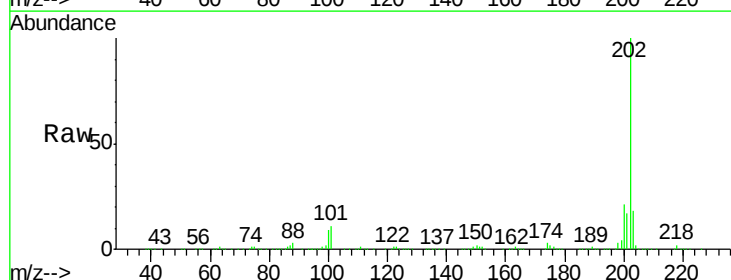
Instrument :
BNA_F
ClientSampleId :
HS-SB02A

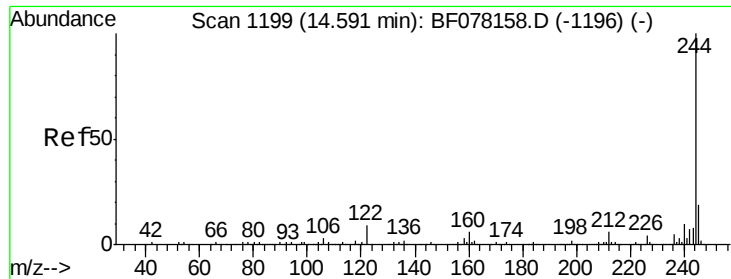
Tgt Ion:240 Resp: 100437
Ion Ratio Lower Upper
240 100
120 8.7 7.1 10.7
236 25.0 21.4 32.2



#77
Pyrene
Concen: 78.19 ng
RT: 14.14 min Scan# 1133
Delta R.T. 0.01 min
Lab File: BF078510.D
Acq: 14 Apr 2015 20:28

Tgt Ion:202 Resp: 492980
Ion Ratio Lower Upper
202 100
200 20.9 16.3 24.5
203 18.3 13.8 20.6





#78

Terphenyl-d14

Concen: 52.48 ng

RT: 14.35 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BF078510.D

Acq: 14 Apr 2015 20:28

Instrument :

BNA_F

ClientSampleId :

HS-SB02A

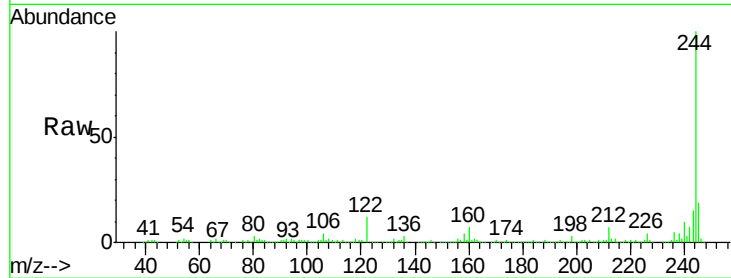
Tgt Ion:244 Resp: 233248

Ion Ratio Lower Upper

244 100

212 7.0 5.0 7.4

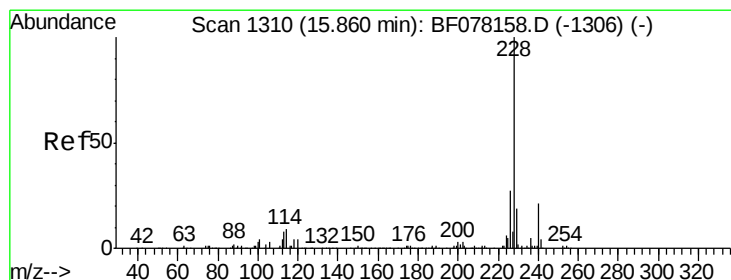
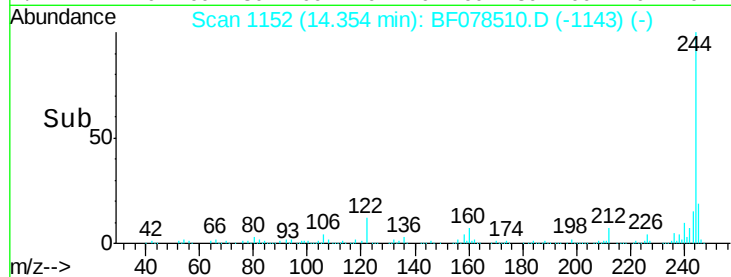
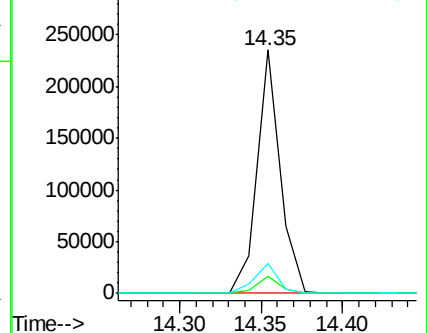
122 12.3 7.1 10.7#



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: 52.77 ng

RT: 15.63 min Scan# 1264

Delta R.T. -0.01 min

Lab File: BF078510.D

Acq: 14 Apr 2015 20:28

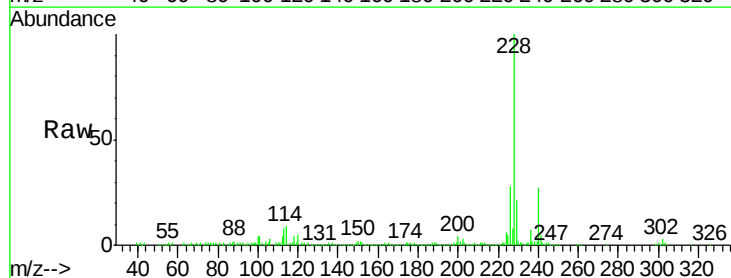
Tgt Ion:228 Resp: 315361

Ion Ratio Lower Upper

228 100

226 28.1 21.3 31.9

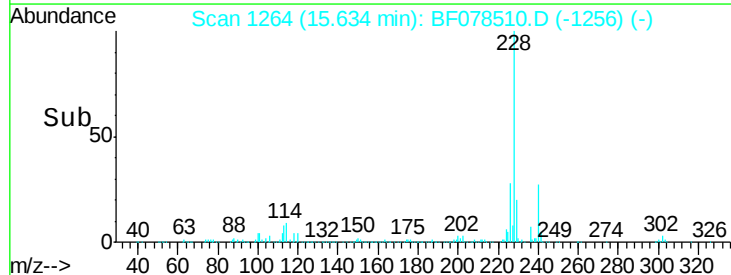
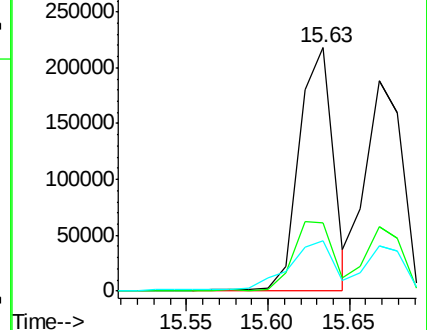
229 20.8 15.4 23.2

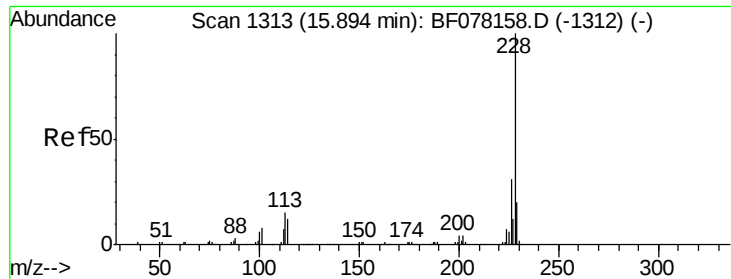


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 52.24 ng

RT: 15.67 min Scan# 1267

Delta R.T. -0.02 min

Lab File: BF078510.D

Acq: 14 Apr 2015 20:28

Instrument :

BNA_F

ClientSampleId :

HS-SB02A

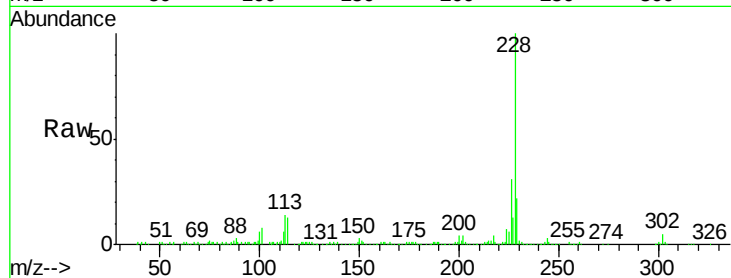
Tgt Ion:228 Resp: 293288

Ion Ratio Lower Upper

228 100

226 30.9 24.2 36.4

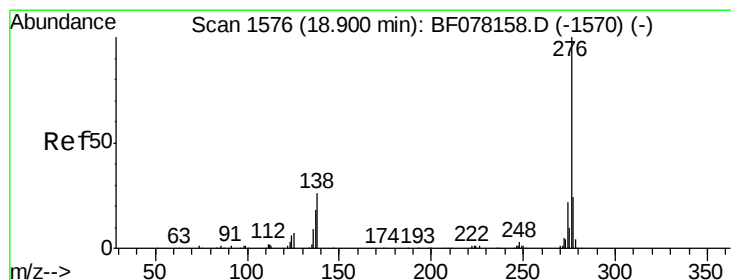
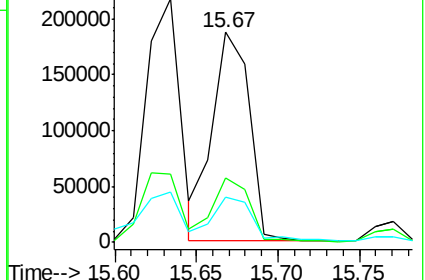
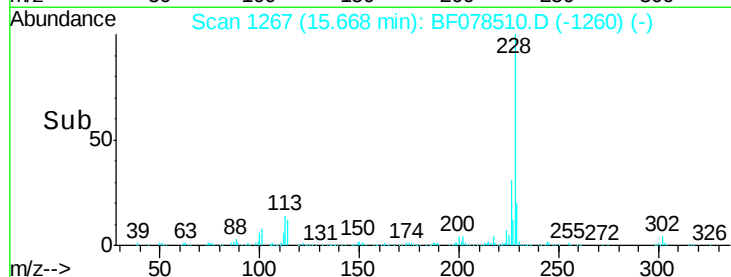
229 21.6 15.8 23.8



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: 36.33 ng

RT: 18.72 min Scan# 1534

Delta R.T. -0.09 min

Lab File: BF078510.D

Acq: 14 Apr 2015 20:28

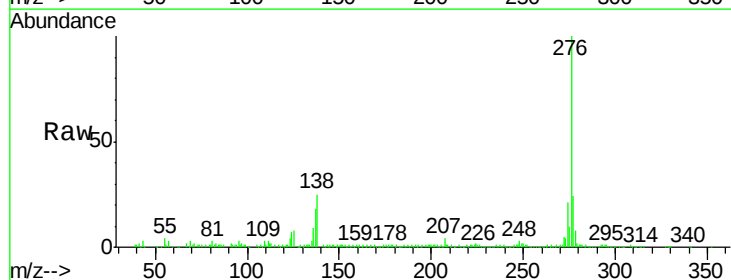
Tgt Ion:276 Resp: 231473

Ion Ratio Lower Upper

276 100

138 24.8 16.9 25.3

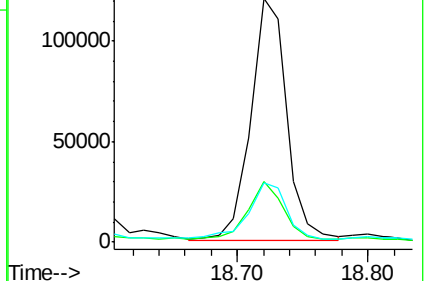
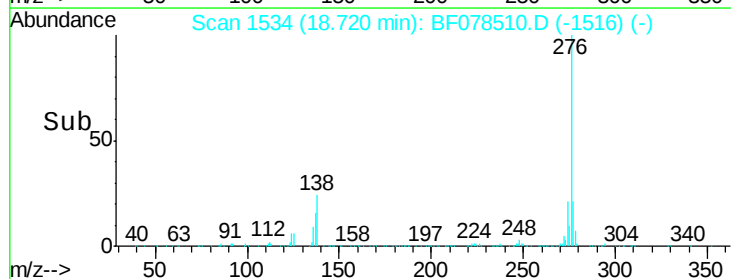
277 26.7 15.8 23.6#

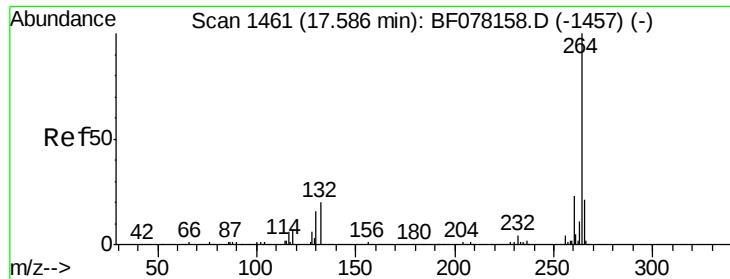


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

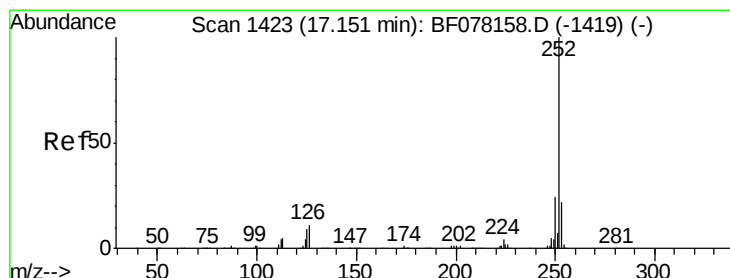
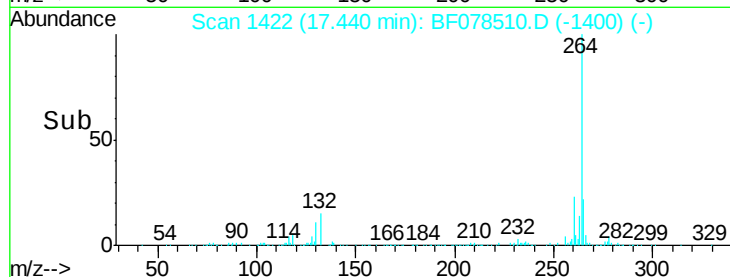
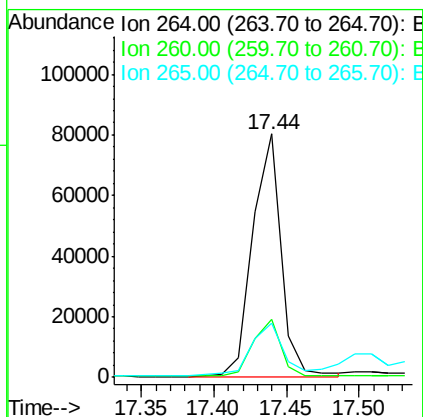
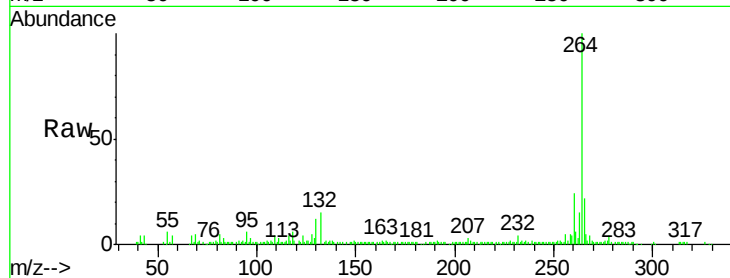




#86
Perylene-d12
Concen: 20.00 ng
RT: 17.44 min Scan# 1422
Delta R.T. -0.05 min
Lab File: BF078510.D
Acq: 14 Apr 2015 20:28

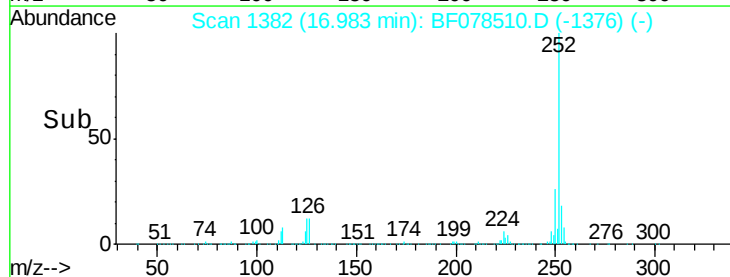
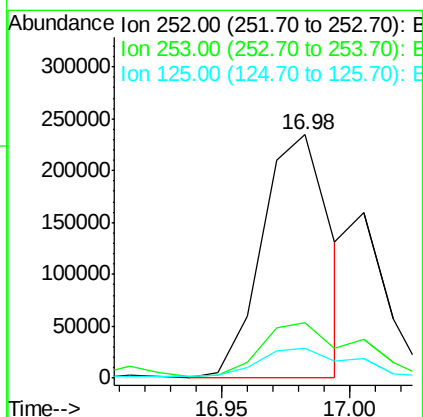
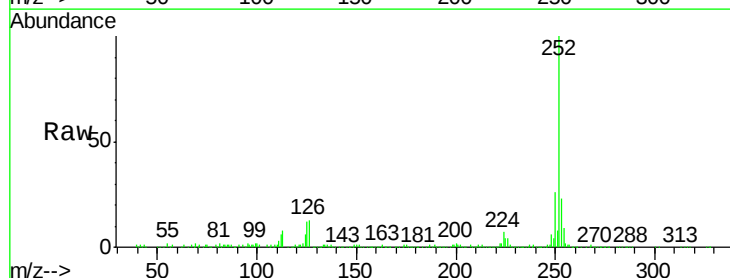
Instrument :
BNA_F
ClientSampleId :
HS-SB02A

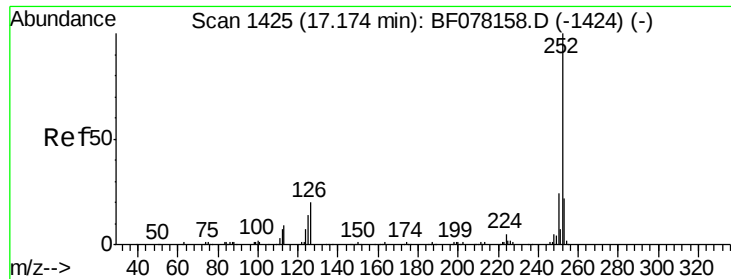
Tgt Ion:264 Resp: 110857
Ion Ratio Lower Upper
264 100
260 23.8 18.6 27.8
265 22.2 17.0 25.6



#87
Benzo(b)fluoranthene
Concen: 64.15 ng m
RT: 16.98 min Scan# 1382
Delta R.T. -0.03 min
Lab File: BF078510.D
Acq: 14 Apr 2015 20:28

Tgt Ion:252 Resp: 439482
Ion Ratio Lower Upper
252 100
253 22.7 17.2 25.8
125 12.1 7.0 10.4#





#88

Benzo(k)fluoranthene

Concen: 25.27 ng m

RT: 17.01 min Scan# 1384

Delta R.T. -0.05 min

Lab File: BF078510.D

Acq: 14 Apr 2015 20:28

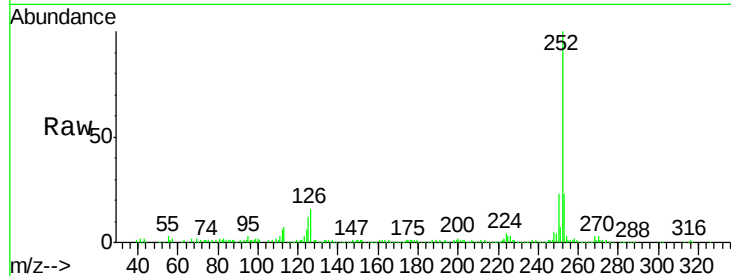
Instrument :

BNA_F

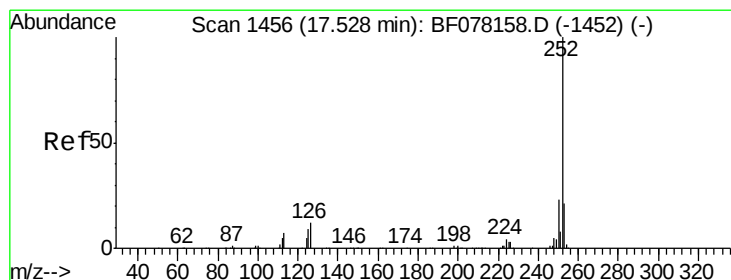
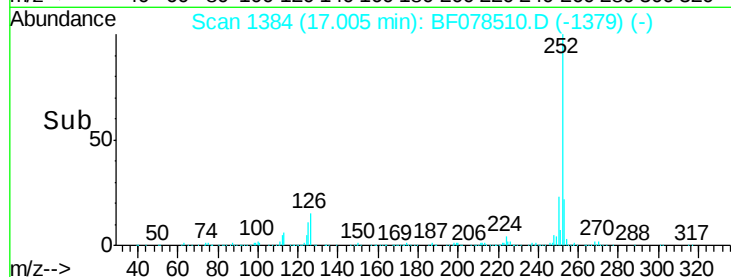
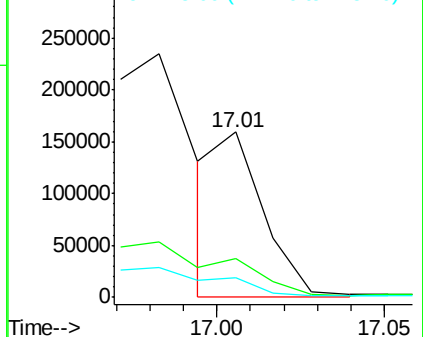
ClientSampleId :

HS-SB02A

Tgt Ion:	252	Resp:	153844
Ion Ratio	Lower	Upper	
252	100		
253	23.2	17.5	26.3
125	11.6	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: 50.70 ng

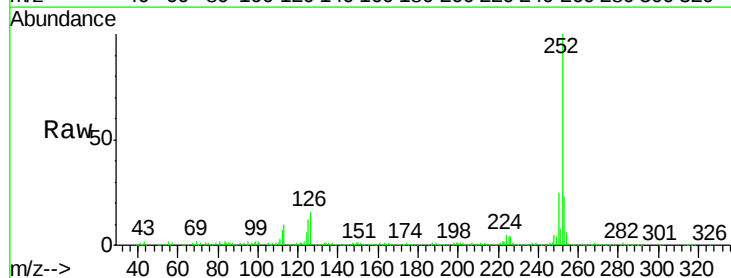
RT: 17.37 min Scan# 1416

Delta R.T. -0.05 min

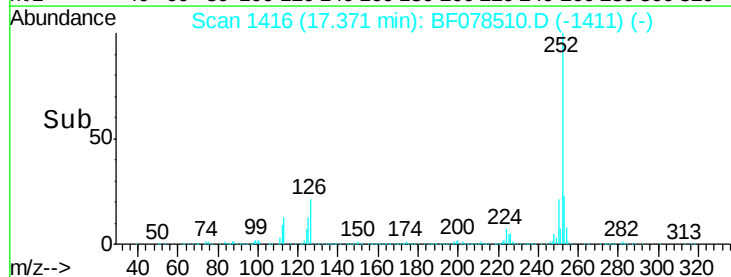
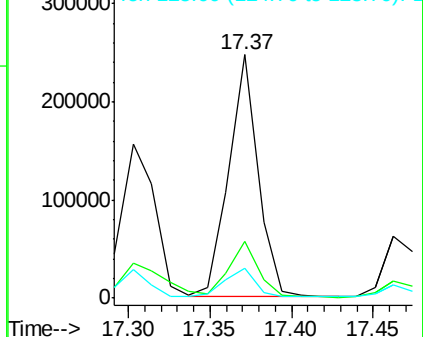
Lab File: BF078510.D

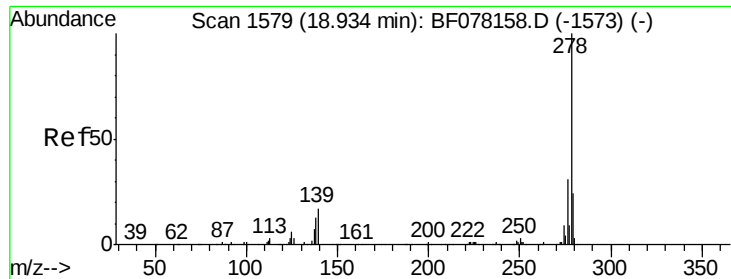
Acq: 14 Apr 2015 20:28

Tgt Ion:	252	Resp:	303131
Ion Ratio	Lower	Upper	
252	100		
253	23.4	16.8	25.2
125	12.3	7.4	11.0#



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





#90

Dibenzo(a,h)anthracene

Concen: 9.18 ng m

RT: 18.74 min Scan# 1536

Delta R.T. -0.09 min

Lab File: BF078510.D

Acq: 14 Apr 2015 20:28

Instrument :

BNA_F

ClientSampleId :

HS-SB02A

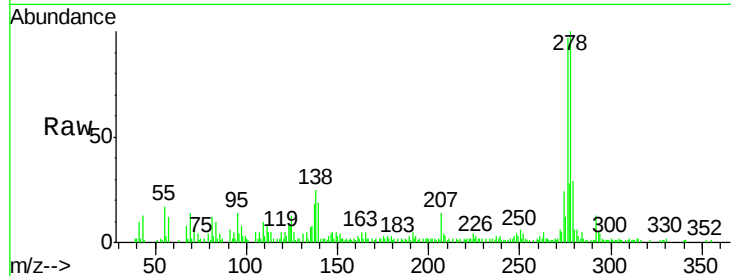
Tgt Ion:278 Resp: 54951

Ion Ratio Lower Upper

278 100

139 18.6 13.6 20.4

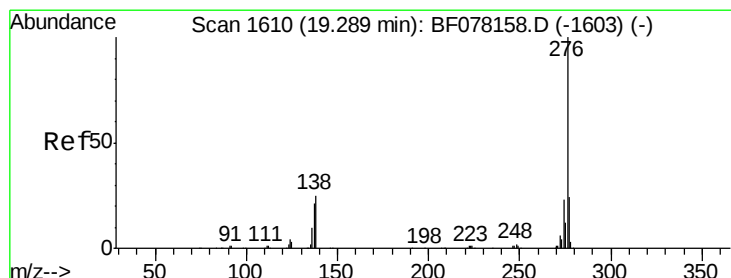
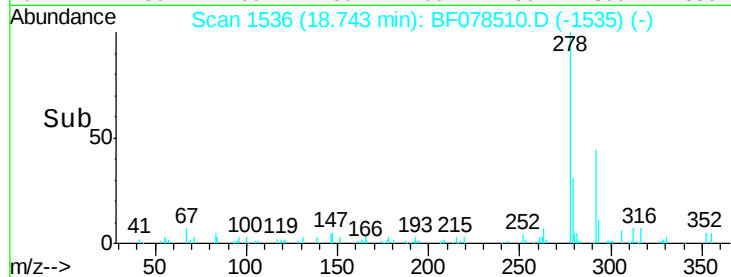
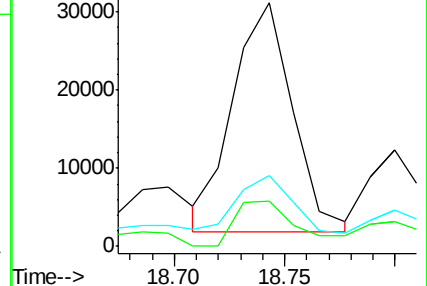
279 29.3 19.0 28.6#



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: 35.72 ng

RT: 19.07 min Scan# 1565

Delta R.T. -0.08 min

Lab File: BF078510.D

Acq: 14 Apr 2015 20:28

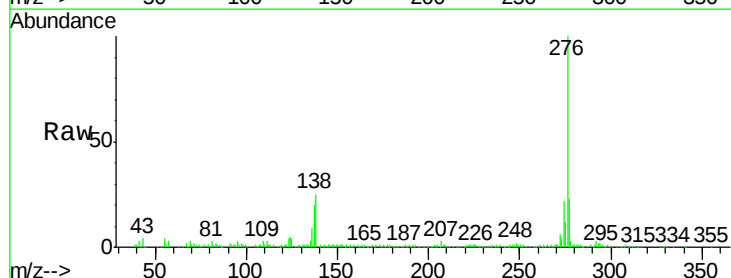
Tgt Ion:276 Resp: 214420

Ion Ratio Lower Upper

276 100

277 23.3 19.0 28.4

138 24.6 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

