

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041415\
 Data File : BF078505.D
 Acq On : 14 Apr 2015 18:05
 Operator : TP/IZ
 Sample : G1828-01
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HS-SB05A

Quant Time: Apr 15 10:44:56 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	20523	20.00	ng	0.00
21) Naphthalene-d8	8.38	136	83844	20.00	ng	-0.01
38) Acenaphthene-d10	10.54	164	41984	20.00	ng	0.00
63) Phenanthrene-d10	12.37	188	82175	20.00	ng	0.00
75) Chrysene-d12	15.66	240	93841	20.00	ng	0.00
86) Perylene-d12	17.45	264	93094	20.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.05	112	125205	100.59	ng	0.00
7) Phenol-d6	6.41	99	172027	110.28	ng	0.00
23) Nitrobenzene-d5	7.51	82	98024	70.86	ng	0.00
41) 2,4,6-Tribromophenol	11.52	330	41597	119.46	ng	0.00
44) 2-Fluorobiphenyl	9.74	172	195675	66.62	ng	0.00
78) Terphenyl-d14	14.37	244	237470	57.18	ng	0.01

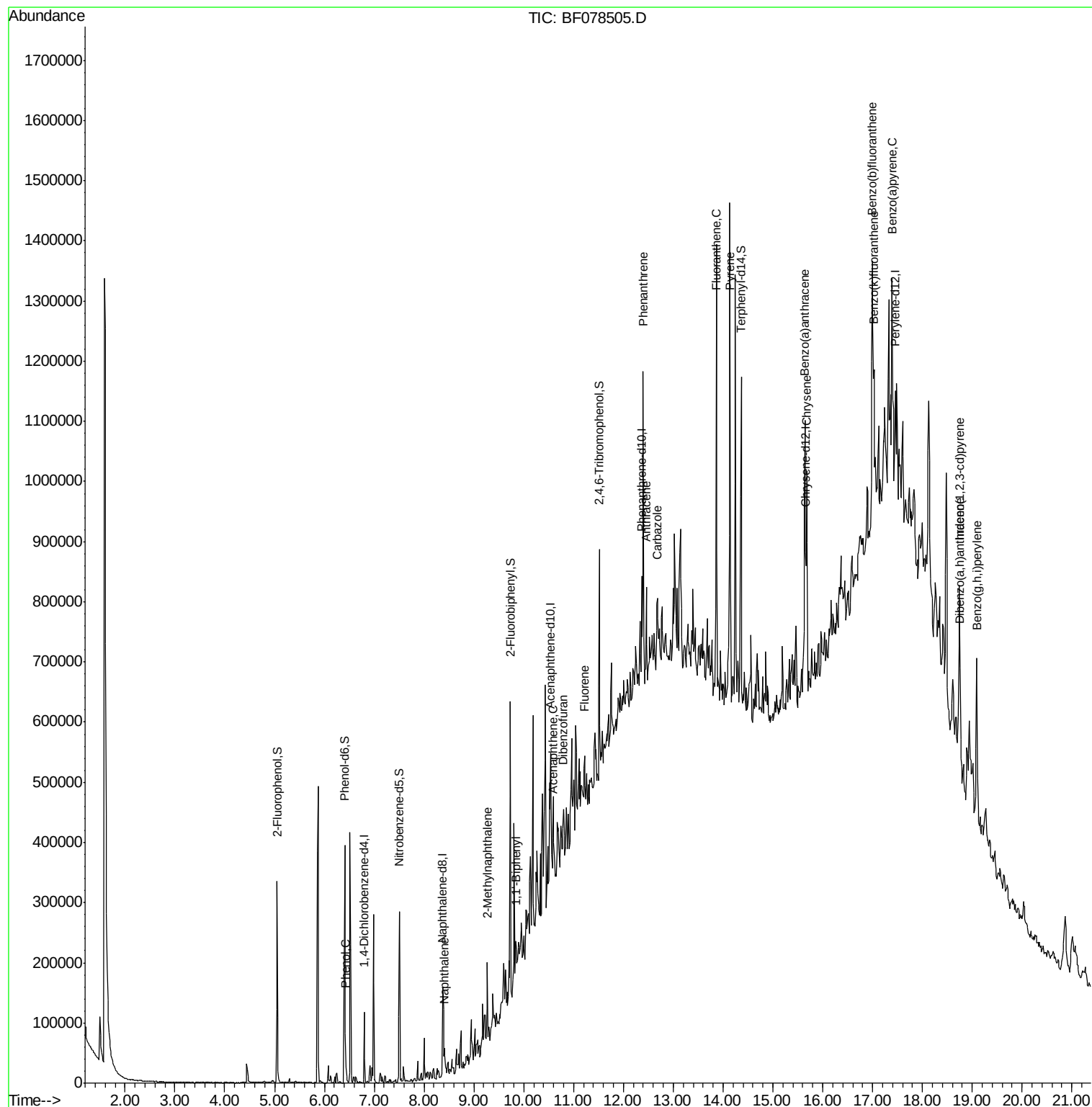
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Phenol	6.42	94	5685	3.04	ng	# 54
31) Naphthalene	8.41	128	26033	5.97	ng	98
37) 2-Methylnaphthalene	9.27	142	35164	11.87	ng	99
45) 1,1'-Biphenyl	9.85	154	11759	3.42	ng	97
51) Acenaphthene	10.58	154	14920	6.07	ng	96
54) Dibenzofuran	10.80	168	19718	5.26	ng	95
57) Fluorene	11.22	166	16934	5.57	ng	# 87
70) Phenanthrene	12.40	178	225595	47.46	ng	98
71) Anthracene	12.46	178	77143m	16.47	ng	
72) Carbazole	12.67	167	33159	7.55	ng	# 85
74) Fluoranthene	13.86	202	353329	70.48	ng	97
77) Pyrene	14.14	202	353084	59.94	ng	# 93
80) Benzo(a)anthracene	15.65	228	213800	38.29	ng	95
82) Chrysene	15.68	228	194547m	37.09	ng	
85) Indeno(1,2,3-cd)pyrene	18.74	276	197378	33.16	ng	# 86
87) Benzo(b)fluoranthene	16.99	252	351658m	61.12	ng	
88) Benzo(k)fluoranthene	17.03	252	85285m	16.68	ng	
89) Benzo(a)pyrene	17.39	252	235641	46.93	ng	# 92
90) Dibenzo(a,h)anthracene	18.75	278	44964m	8.94	ng	
91) Benzo(g,h,i)perylene	19.10	276	214686	42.59	ng	96

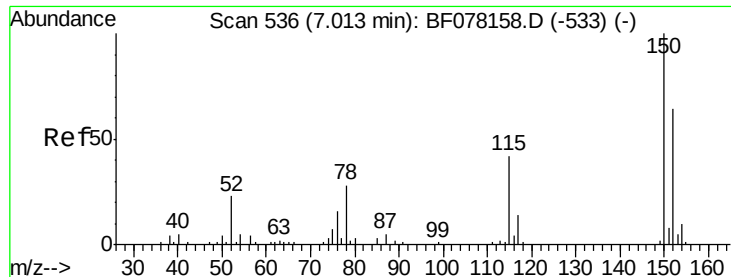
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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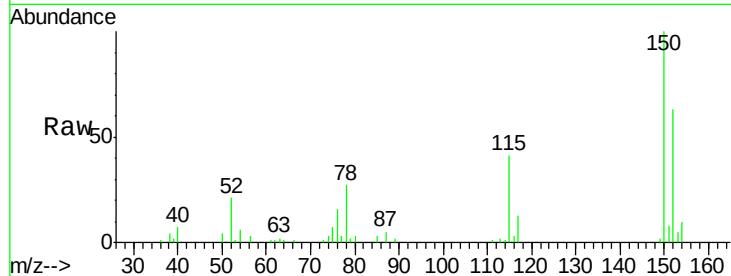


#1

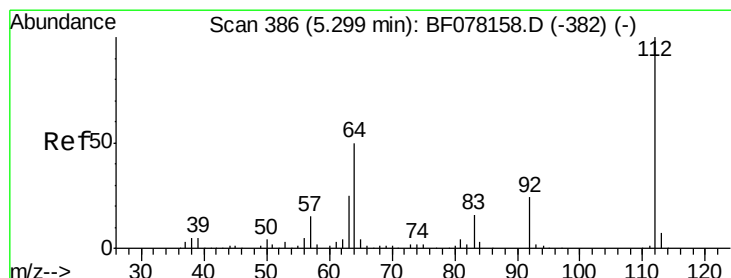
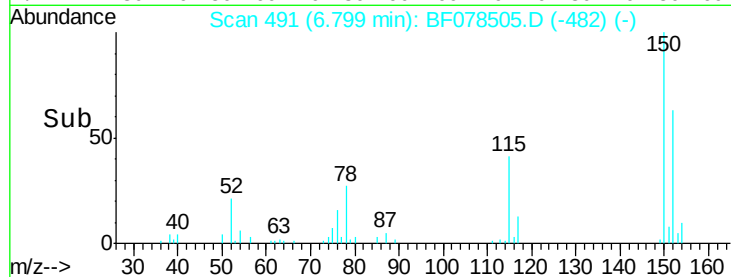
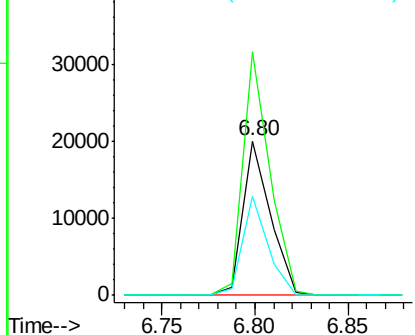
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.80 min Scan# 491
Delta R.T. -0.00 min
Lab File: BF078505.D
Acq: 14 Apr 2015 18:05

Instrument :
BNA_F
ClientSampleId :
HS-SB05A

Tgt Ion:152 Resp: 20523
Ion Ratio Lower Upper
152 100
150 157.9 125.9 188.9
115 64.5 52.7 79.1



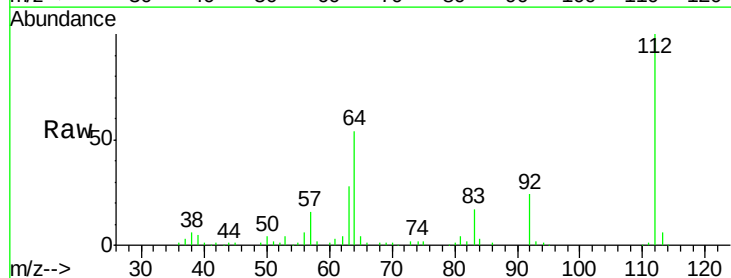
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



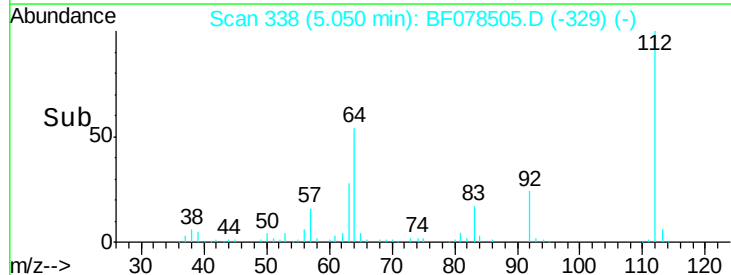
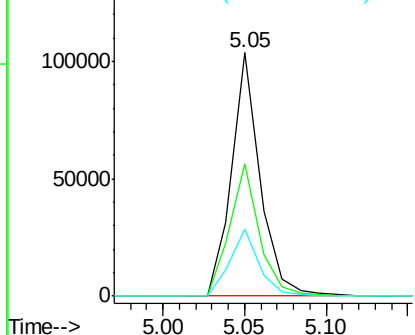
#5

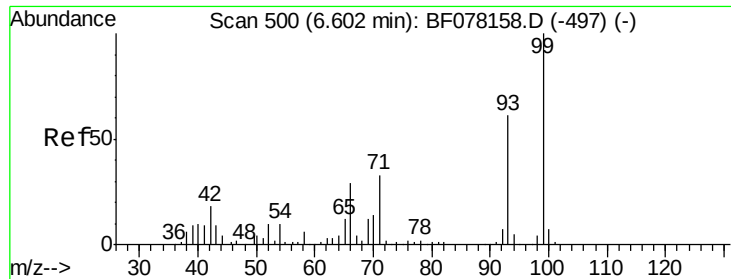
2-Fluorophenol
Concen: 100.59 ng
RT: 5.05 min Scan# 338
Delta R.T. -0.00 min
Lab File: BF078505.D
Acq: 14 Apr 2015 18:05

Tgt Ion:112 Resp: 125205
Ion Ratio Lower Upper
112 100
64 54.5 39.9 59.9
63 27.5 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: 110.28 ng

RT: 6.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

Instrument :

BNA_F

ClientSampleId :

HS-SB05A

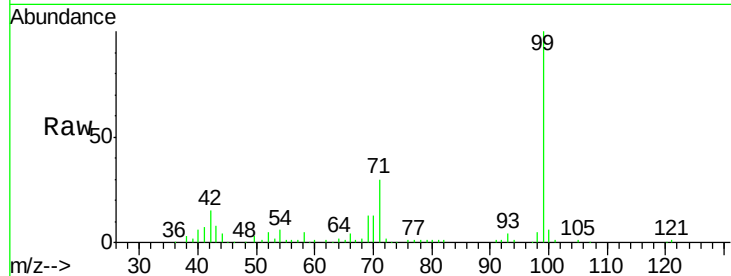
Tgt Ion: 99 Resp: 172027

Ion Ratio Lower Upper

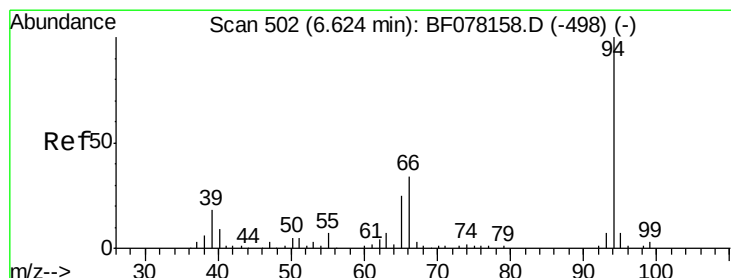
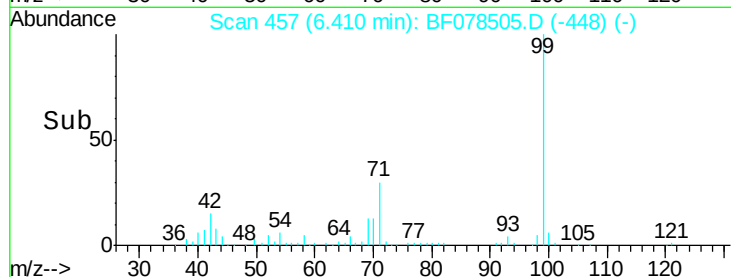
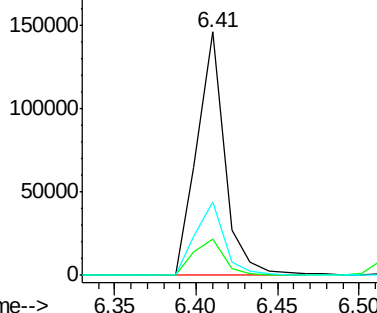
99 100

42 14.8 14.8 22.2#

71 30.1 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



#10

Phenol

Concen: 3.04 ng

RT: 6.42 min Scan# 458

Delta R.T. -0.00 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

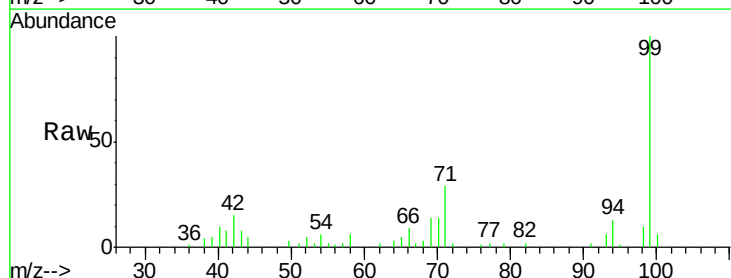
Tgt Ion: 94 Resp: 5685

Ion Ratio Lower Upper

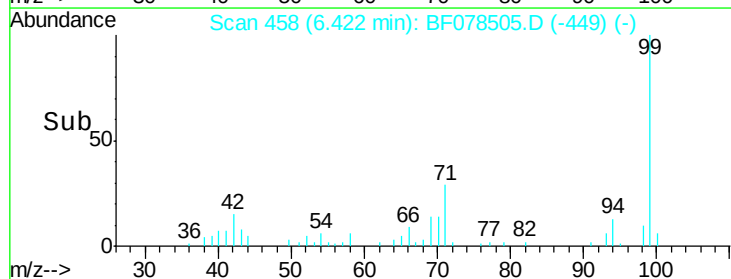
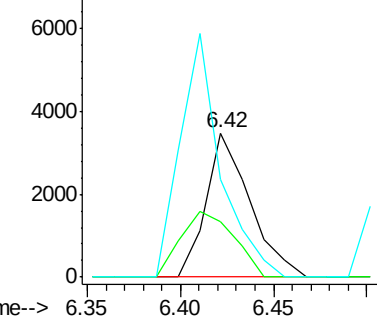
94 100

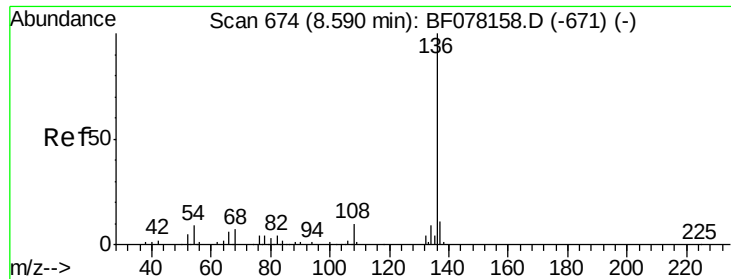
65 38.4 4.9 44.9

66 67.7 13.8 53.8#



Abundance Ion 94.00 (93.70 to 94.70): BF0
Ion 65.00 (64.70 to 65.70): BF0
Ion 66.00 (65.70 to 66.70): BF0





#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.38 min Scan# 629

Delta R.T. -0.01 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

Instrument :

BNA_F

ClientSampleId :

HS-SB05A

Tgt Ion:136 Resp: 83844

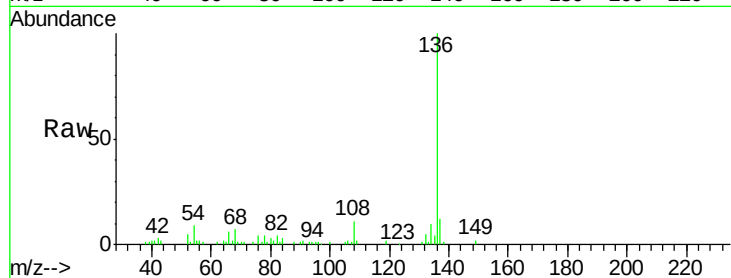
Ion Ratio Lower Upper

136 100

137 11.6 9.0 13.4

54 9.5 7.0 10.6

68 6.6 5.4 8.2

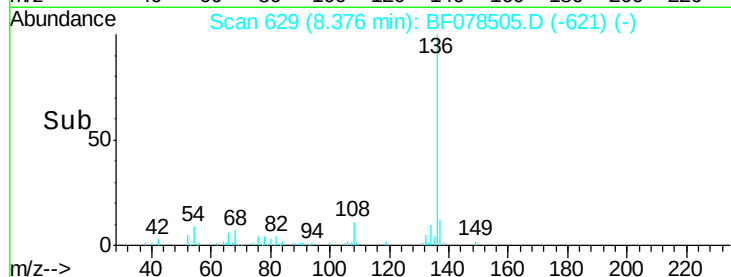


Abundance Ion 136.00 (135.70 to 136.70): E

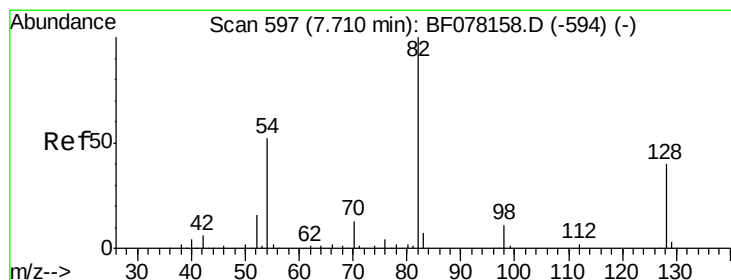
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



Time--> 8.30 8.35 8.40 8.45



#23

Nitrobenzene-d5

Concen: 70.86 ng

RT: 7.51 min Scan# 553

Delta R.T. -0.00 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

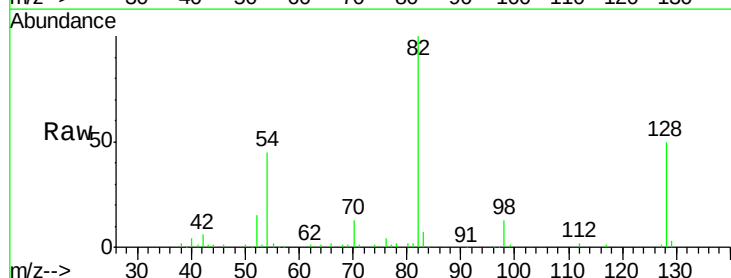
Tgt Ion: 82 Resp: 98024

Ion Ratio Lower Upper

82 100

128 50.2 31.8 47.8#

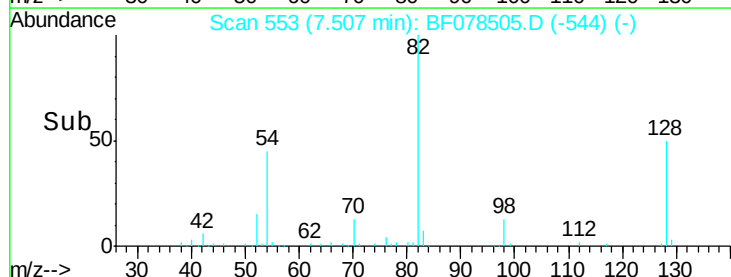
54 44.8 41.5 62.3



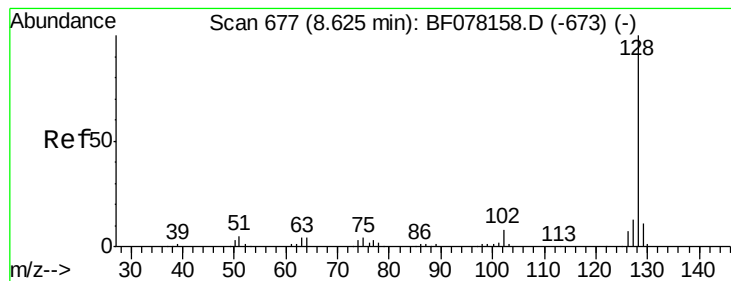
Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0



Time--> 7.45 7.50 7.55



#31

Naphthalene

Concen: 5.97 ng

RT: 8.41 min Scan# 632

Delta R.T. -0.00 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

Instrument :

BNA_F

ClientSampleId :

HS-SB05A

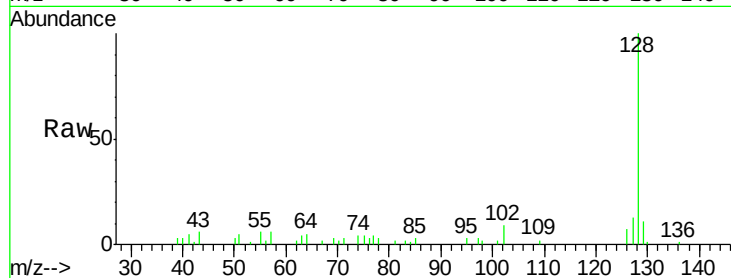
Tgt Ion:128 Resp: 26033

Ion Ratio Lower Upper

128 100

129 11.4 8.6 12.8

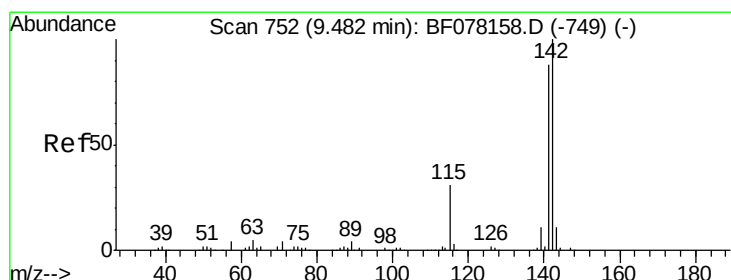
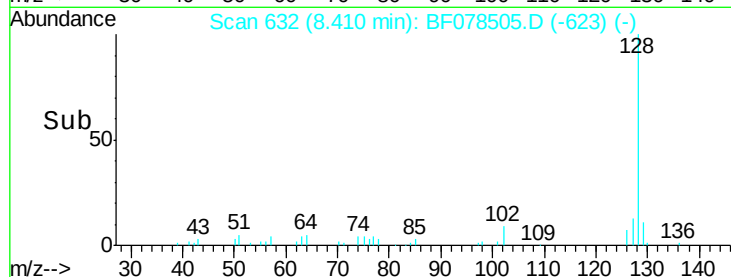
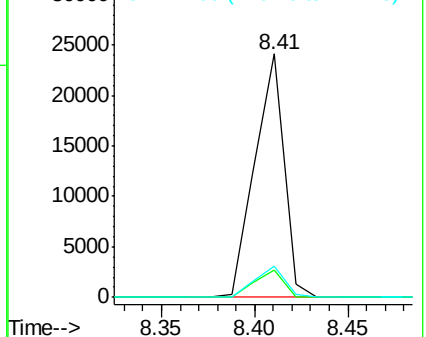
127 12.9 10.7 16.1



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: 11.87 ng

RT: 9.27 min Scan# 707

Delta R.T. -0.00 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

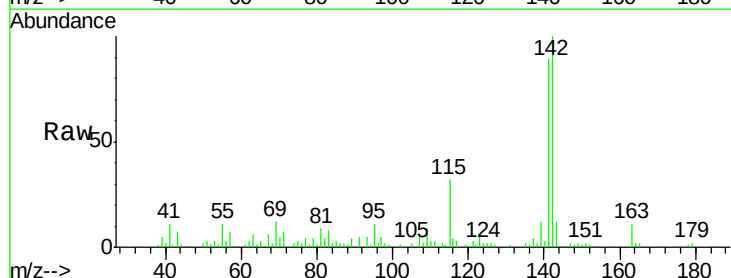
Tgt Ion:142 Resp: 35164

Ion Ratio Lower Upper

142 100

141 88.8 70.3 105.5

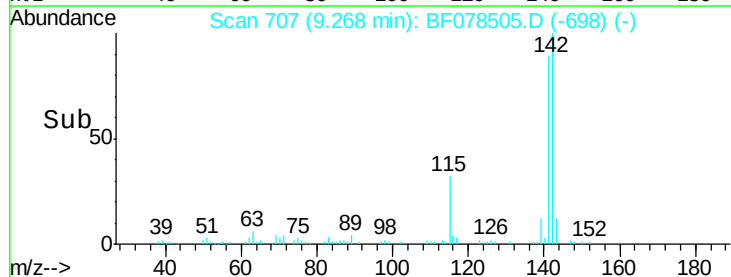
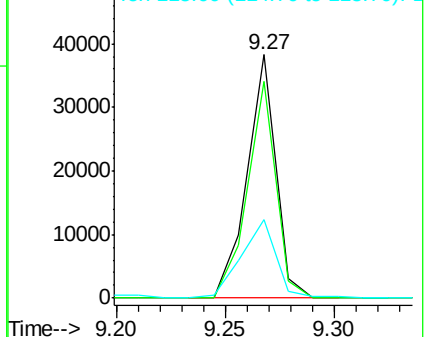
115 32.4 24.6 37.0

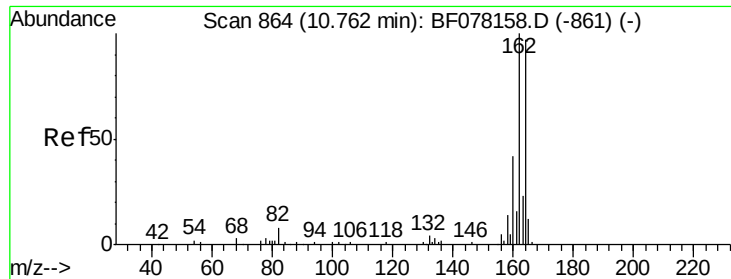


Abundance Ion 142.00 (141.70 to 142.70): E

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: 10.54 min Scan# 818

Delta R.T. -0.00 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

Instrument :

BNA_F

ClientSampleId :

HS-SB05A

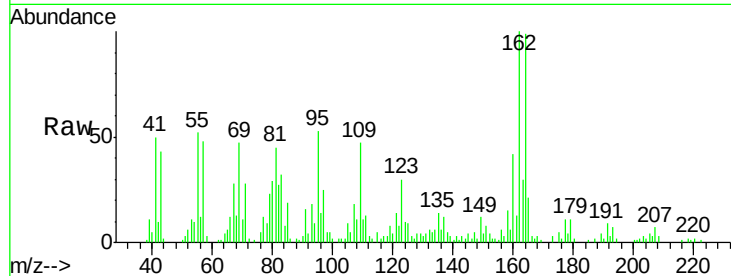
Tgt Ion:164 Resp: 41984

Ion Ratio Lower Upper

164 100

162 101.2 82.2 123.2

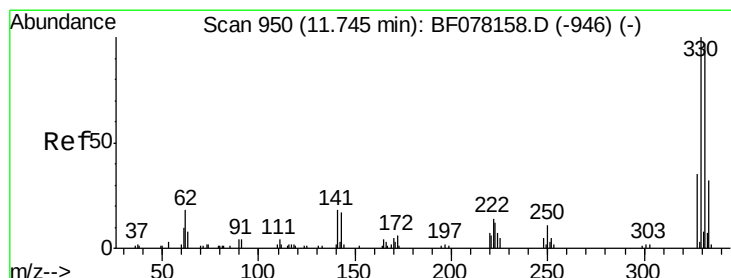
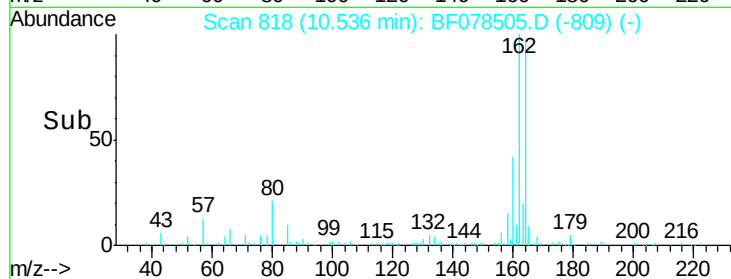
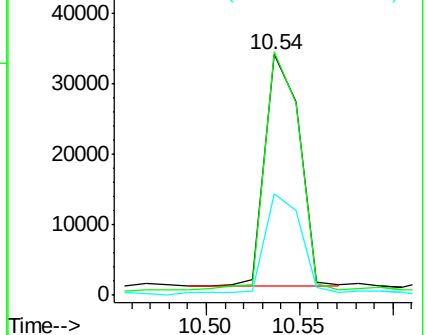
160 42.3 34.7 52.1



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: 119.46 ng

RT: 11.52 min Scan# 904

Delta R.T. -0.00 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

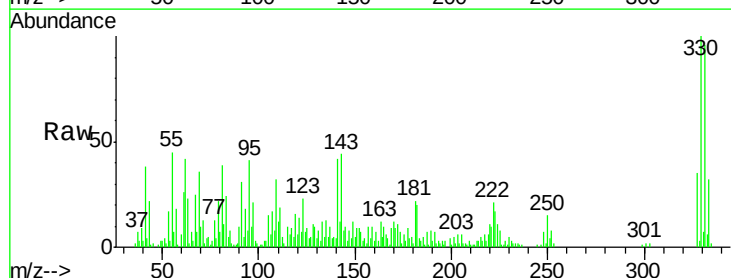
Tgt Ion:330 Resp: 41597

Ion Ratio Lower Upper

330 100

332 96.3 78.6 117.8

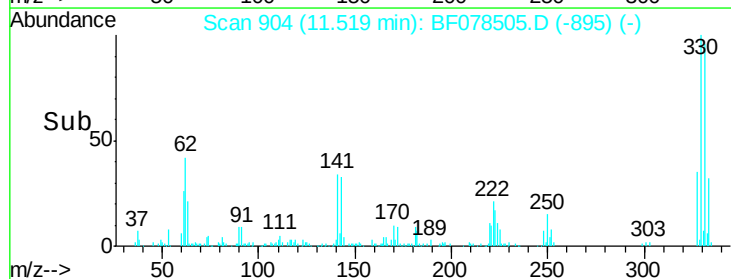
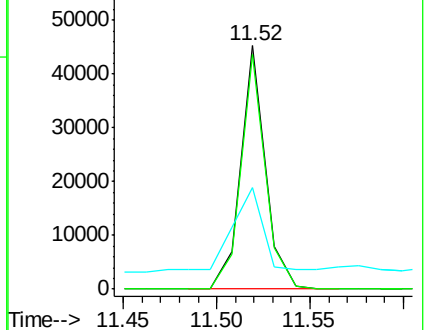
141 45.7 31.2 46.8

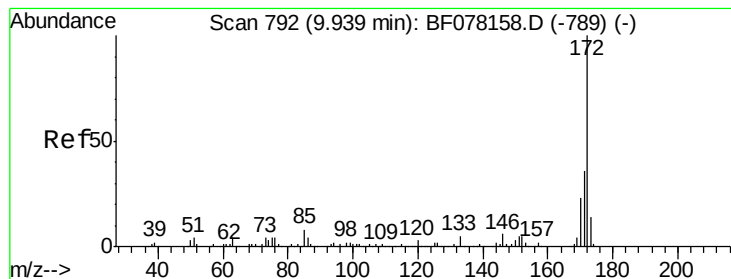


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 66.62 ng

RT: 9.74 min Scan# 748

Delta R.T. -0.00 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

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HS-SB05A

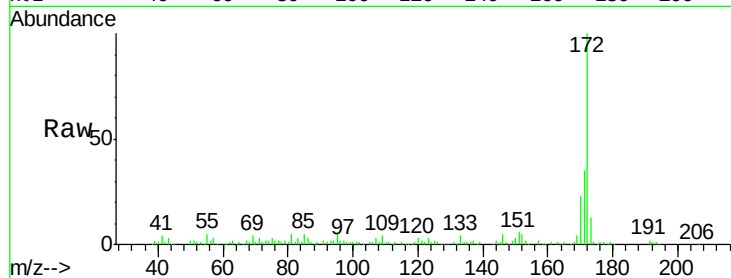
Tgt Ion:172 Resp: 195675

Ion Ratio Lower Upper

172 100

171 34.7 28.6 42.8

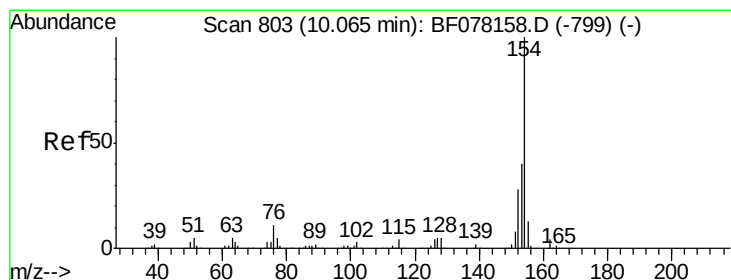
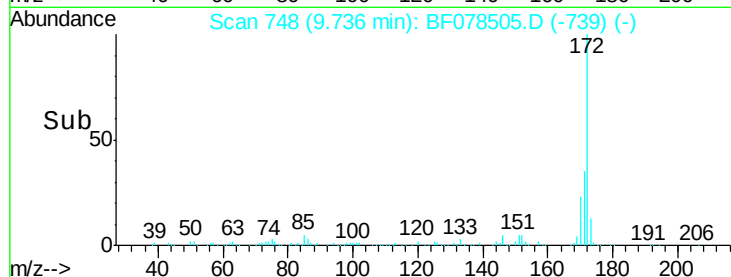
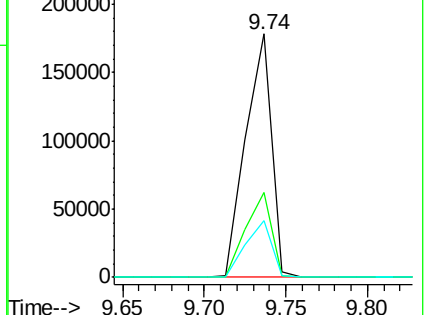
170 23.4 18.5 27.7



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



#45

1,1'-Biphenyl

Concen: 3.42 ng

RT: 9.85 min Scan# 758

Delta R.T. -0.00 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

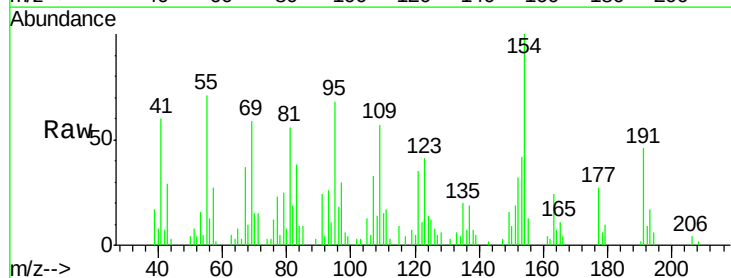
Tgt Ion:154 Resp: 11759

Ion Ratio Lower Upper

154 100

153 41.8 20.0 60.0

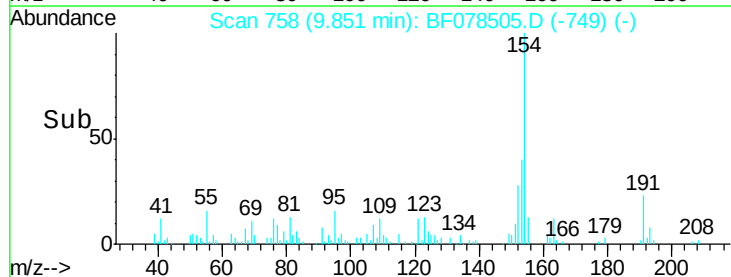
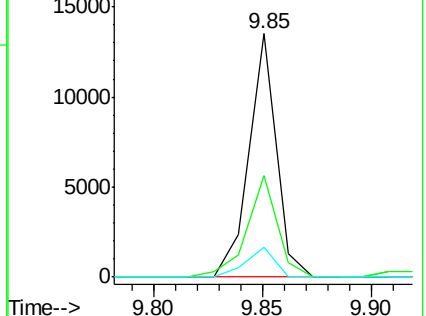
76 12.3 0.0 30.6

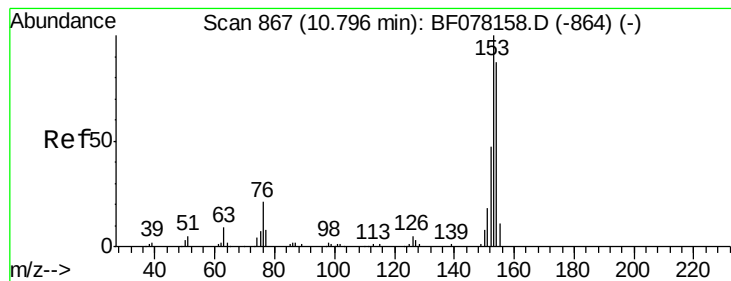


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF0





#51

Acenaphthene

Concen: 6.07 ng

RT: 10.58 min Scan# 822

Delta R.T. -0.00 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

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HS-SB05A

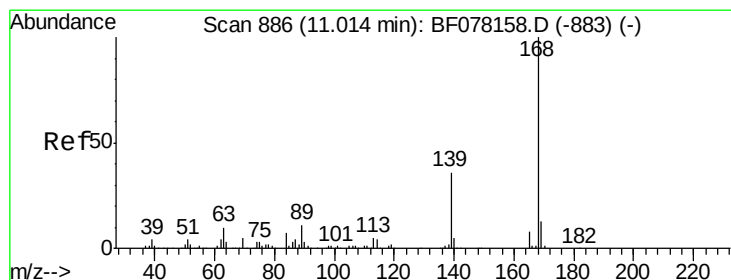
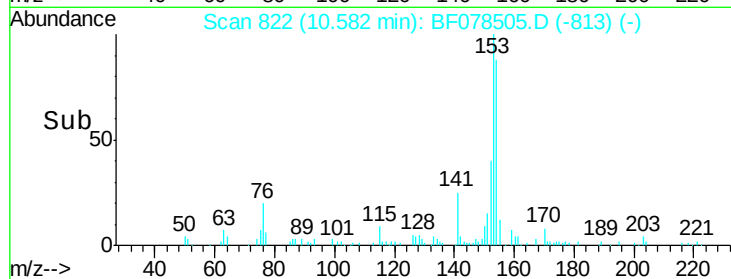
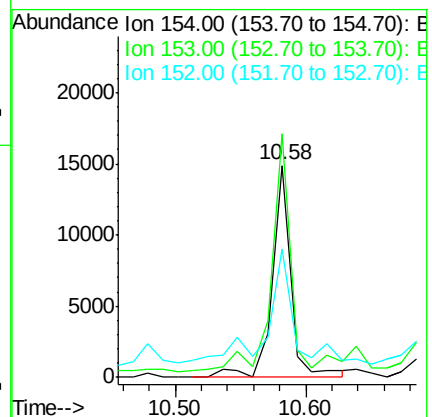
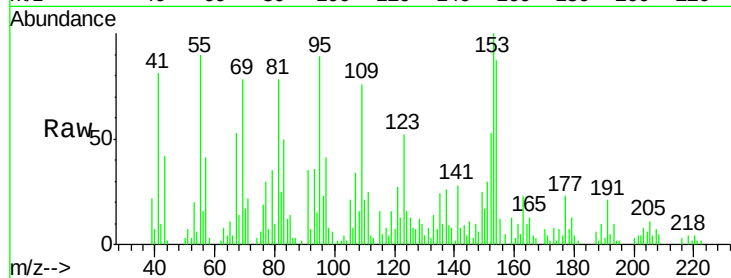
Tgt Ion:154 Resp: 14920

Ion Ratio Lower Upper

154 100

153 114.9 91.4 137.2

152 60.8 43.0 64.6



#54

Dibenzofuran

Concen: 5.26 ng

RT: 10.80 min Scan# 841

Delta R.T. -0.00 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

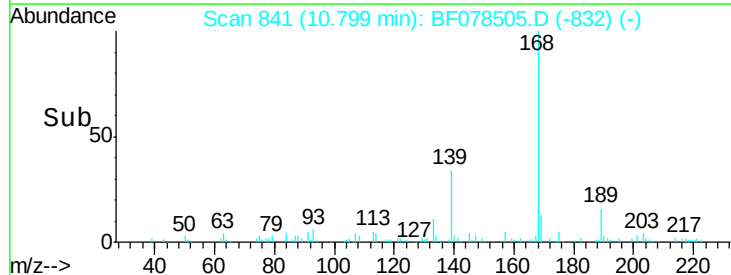
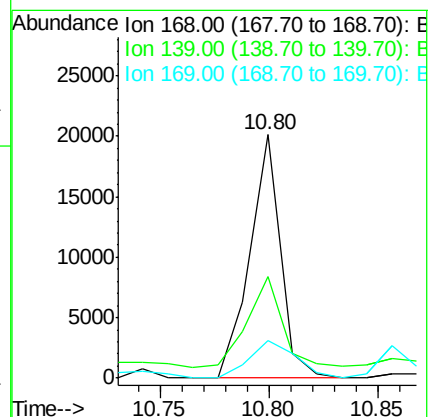
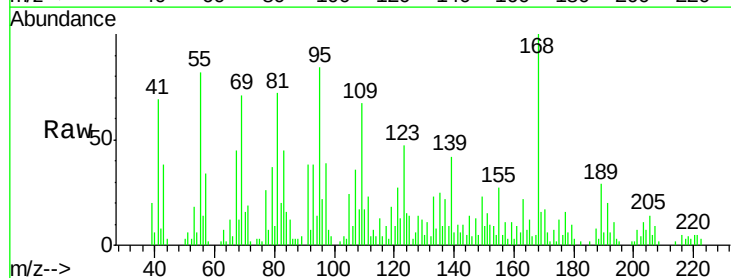
Tgt Ion:168 Resp: 19718

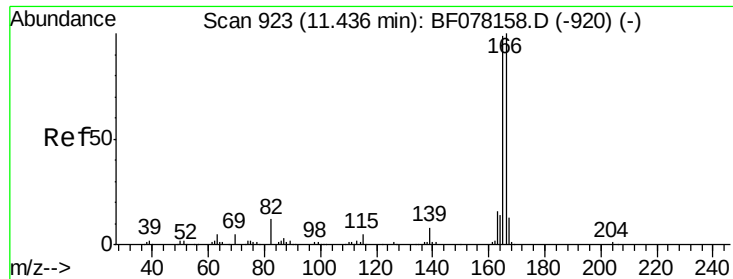
Ion Ratio Lower Upper

168 100

139 41.9 31.0 46.4

169 15.5 10.7 16.1

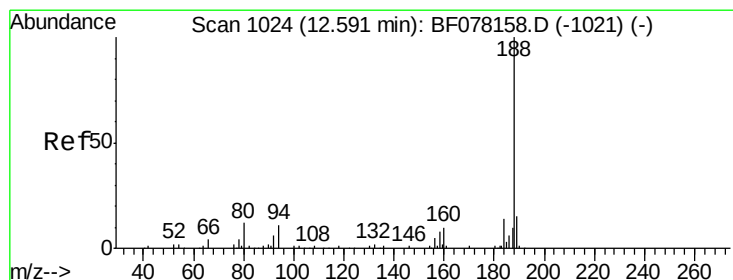
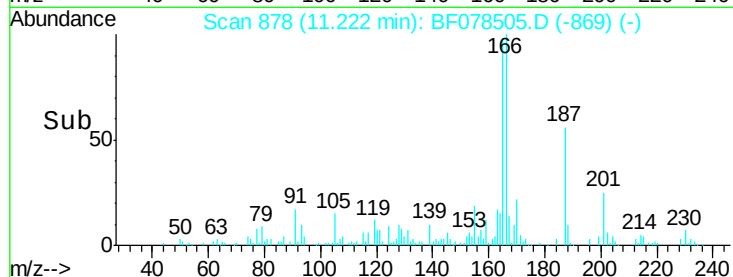
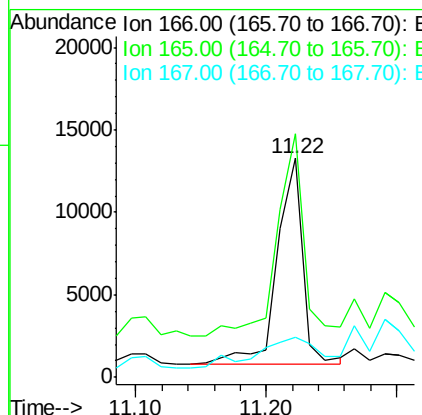
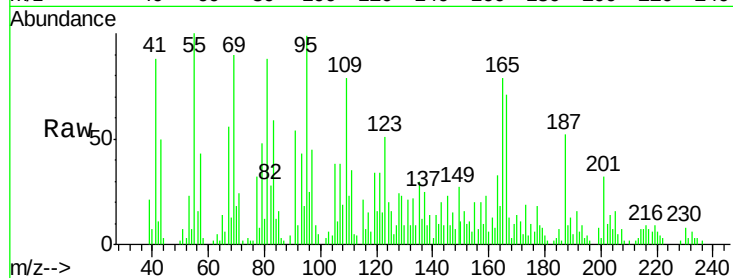




#57
 Fluorene
 Concen: 5.57 ng
 RT: 11.22 min Scan# 878
 Delta R.T. -0.00 min
 Lab File: BF078505.D
 Acq: 14 Apr 2015 18:05

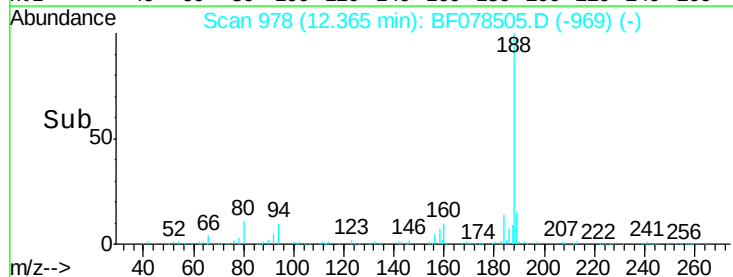
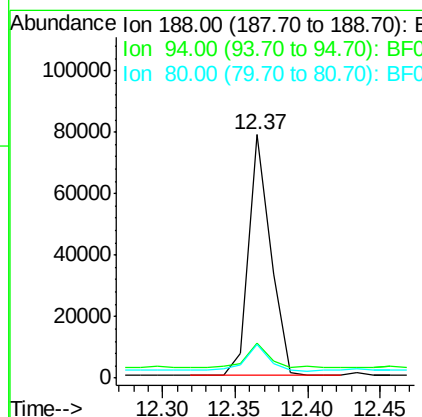
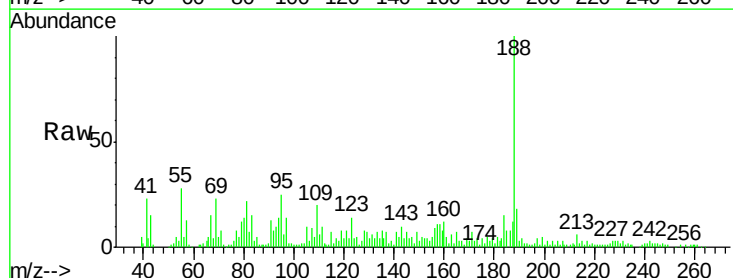
Instrument :
 BNA_F
 ClientSampleId :
 HS-SB05A

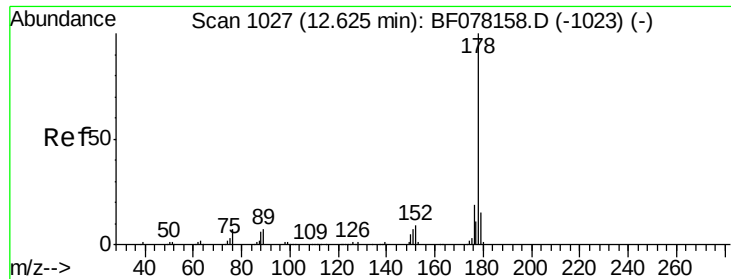
Tgt Ion:166 Resp: 16934
 Ion Ratio Lower Upper
 166 100
 165 111.3 78.9 118.3
 167 18.3 10.7 16.1#



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.37 min Scan# 978
 Delta R.T. -0.00 min
 Lab File: BF078505.D
 Acq: 14 Apr 2015 18:05

Tgt Ion:188 Resp: 82175
 Ion Ratio Lower Upper
 188 100
 94 14.2 9.0 13.4#
 80 13.8 9.5 14.3





#70

Phenanthrene

Concen: 47.46 ng

RT: 12.40 min Scan# 981

Delta R.T. 0.01 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

Instrument :

BNA_F

ClientSampleId :

HS-SB05A

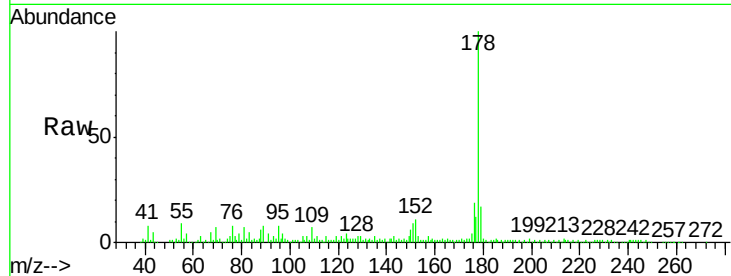
Tgt Ion:178 Resp: 225595

Ion Ratio Lower Upper

178 100

176 19.4 15.4 23.0

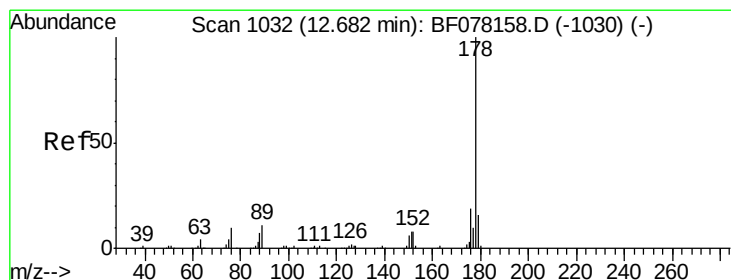
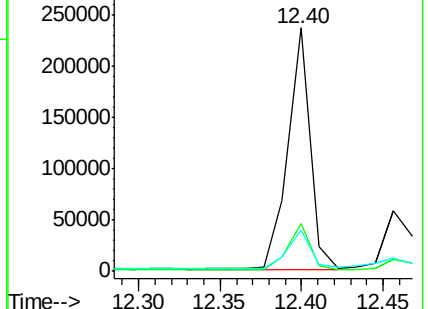
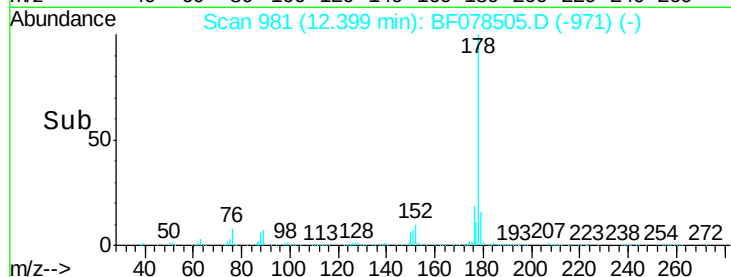
179 16.8 12.2 18.2



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: 16.47 ng m

RT: 12.46 min Scan# 986

Delta R.T. -0.00 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

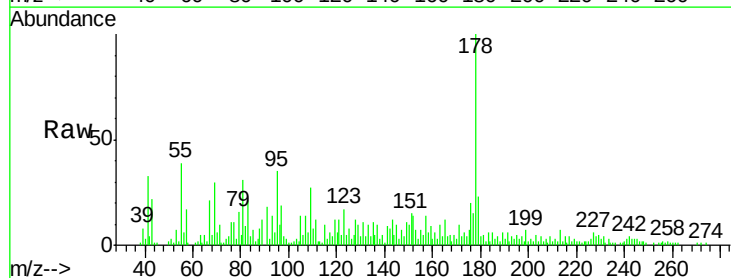
Tgt Ion:178 Resp: 77143

Ion Ratio Lower Upper

178 100

176 20.2 14.8 22.2

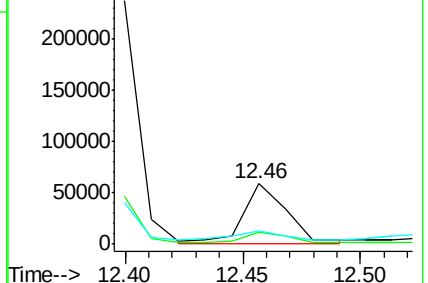
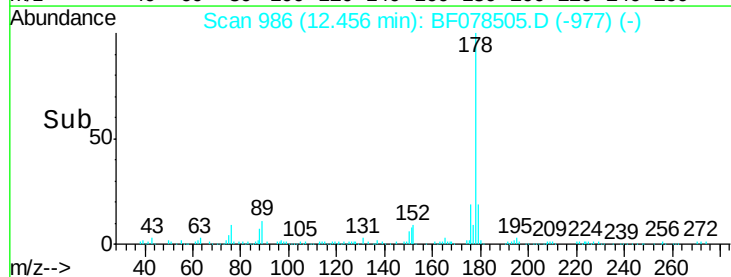
179 22.8 12.4 18.6#

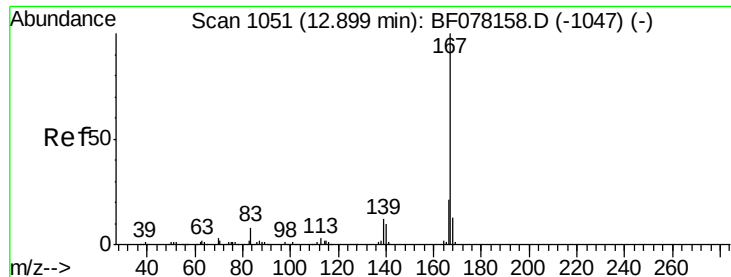


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 7.55 ng

RT: 12.67 min Scan# 1005

Delta R.T. -0.00 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

Instrument :

BNA_F

ClientSampleId :

HS-SB05A

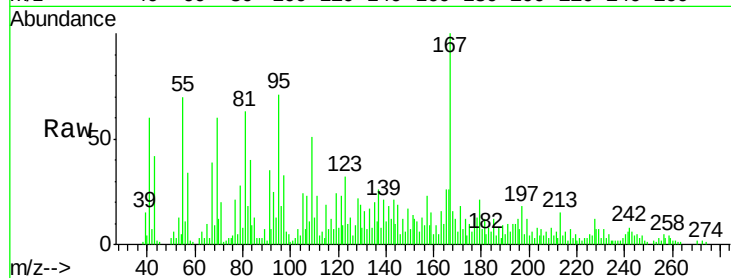
Tgt Ion:167 Resp: 33159

Ion Ratio Lower Upper

167 100

166 26.0 16.8 25.2#

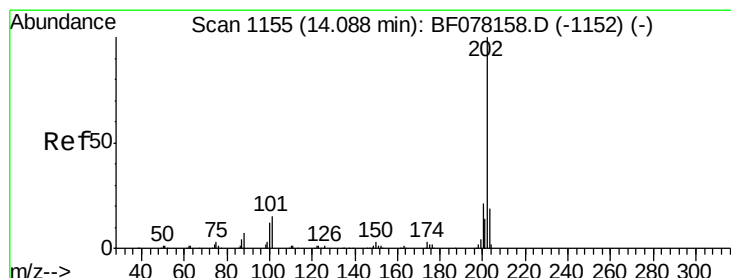
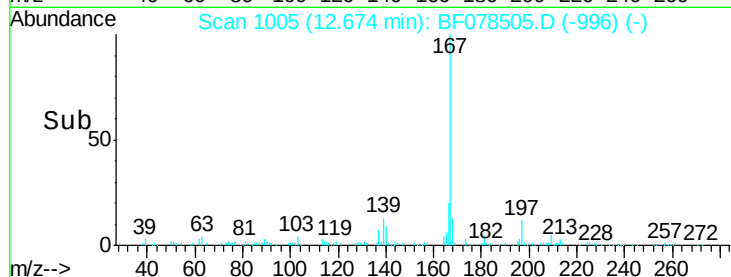
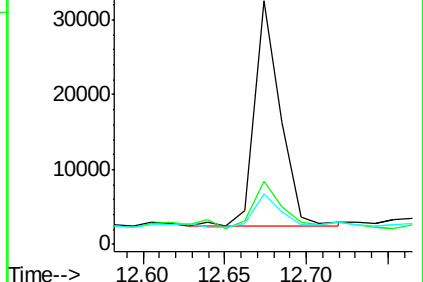
139 20.9 10.0 15.0#



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: 70.48 ng

RT: 13.86 min Scan# 1109

Delta R.T. 0.01 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

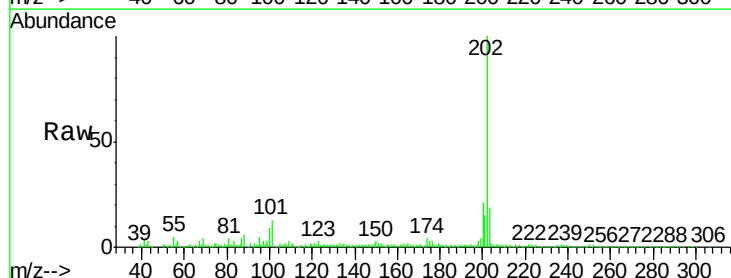
Tgt Ion:202 Resp: 353329

Ion Ratio Lower Upper

202 100

101 12.7 0.0 35.2

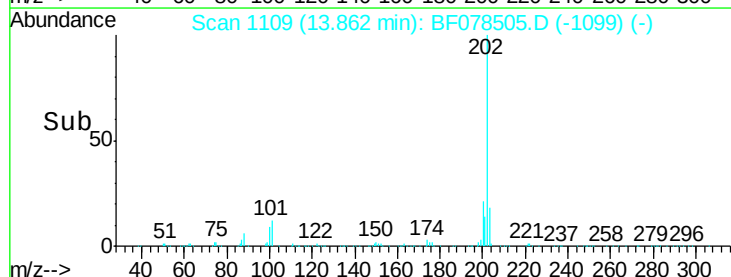
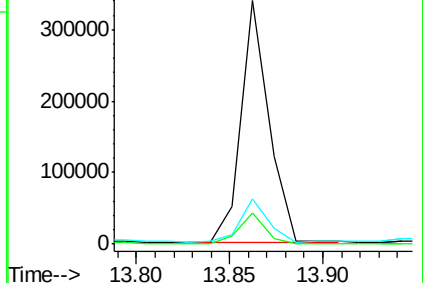
203 18.5 0.0 38.5

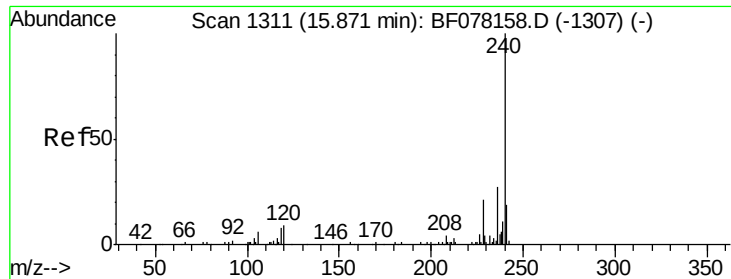


Abundance Ion 202.00 (201.70 to 202.70): E

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: 15.66 min Scan# 1266

Delta R.T. -0.00 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

Instrument :

BNA_F

ClientSampleId :

HS-SB05A

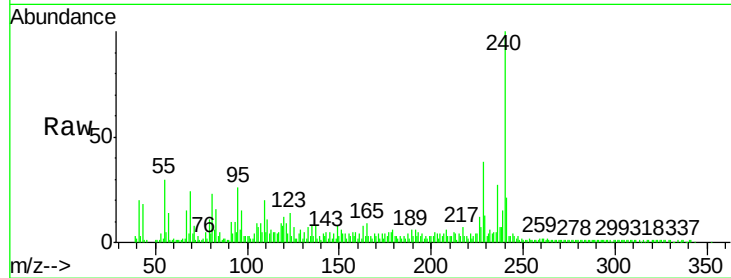
Tgt Ion:240 Resp: 93841

Ion Ratio Lower Upper

240 100

120 11.8 7.1 10.7#

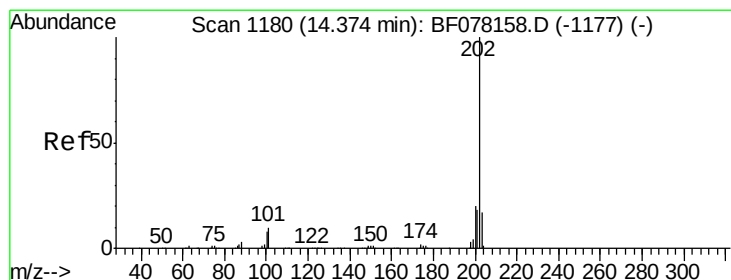
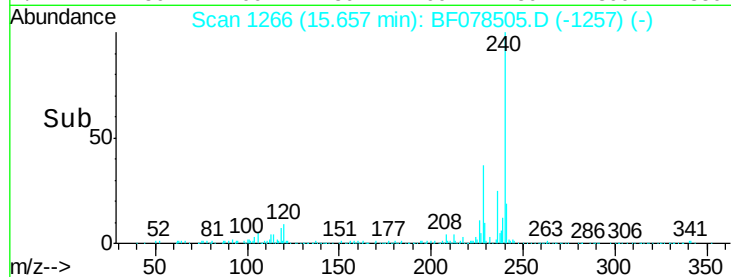
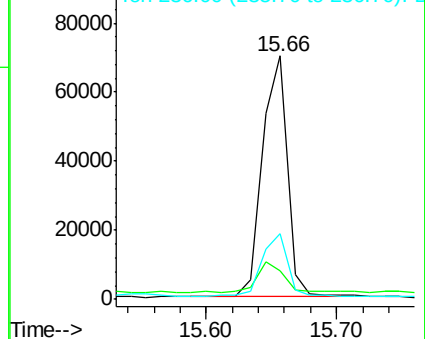
236 26.9 21.4 32.2



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: 59.94 ng

RT: 14.14 min Scan# 1133

Delta R.T. 0.01 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

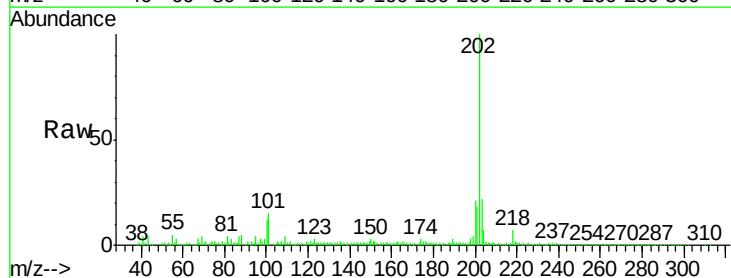
Tgt Ion:202 Resp: 353084

Ion Ratio Lower Upper

202 100

200 21.5 16.3 24.5

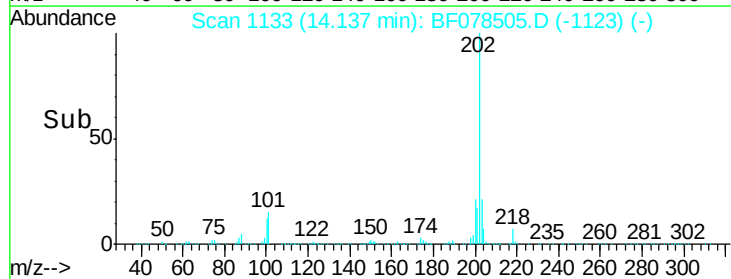
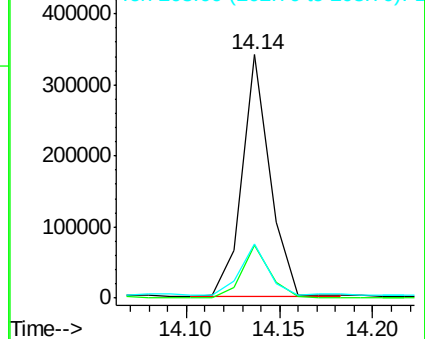
203 22.4 13.8 20.6#

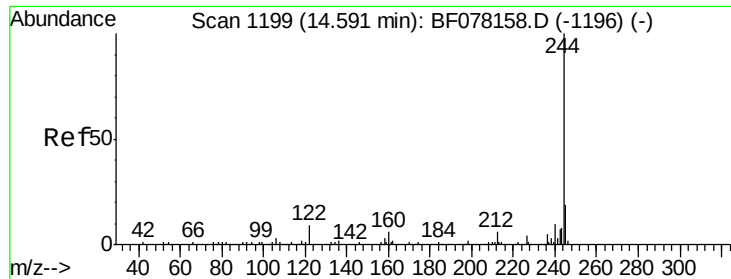


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

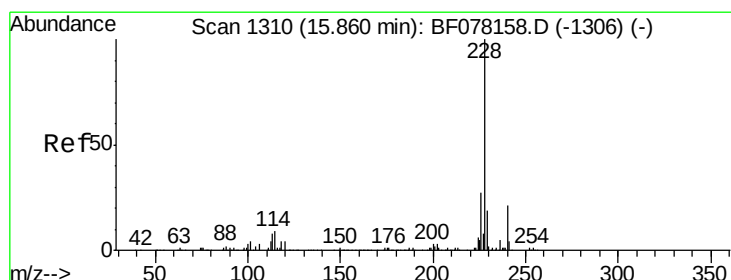
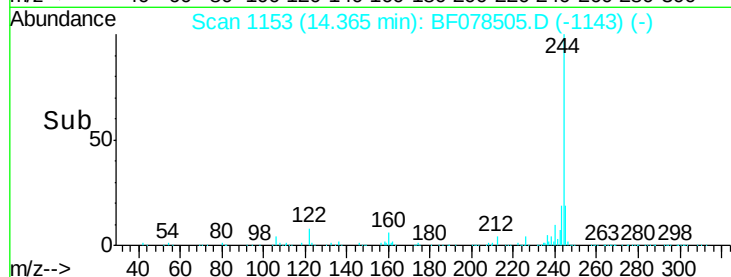
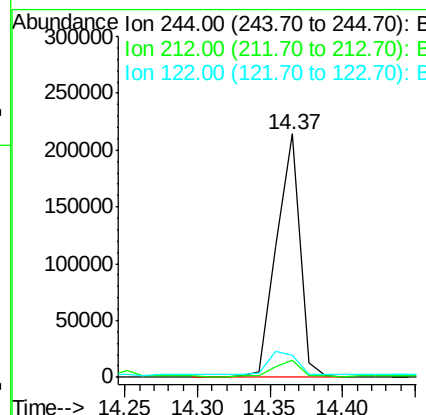
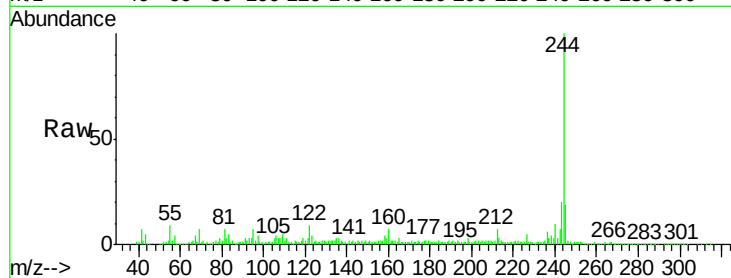




#78
 Terphenyl-d14
 Concen: 57.18 ng
 RT: 14.37 min Scan# 1153
 Delta R.T. 0.01 min
 Lab File: BF078505.D
 Acq: 14 Apr 2015 18:05

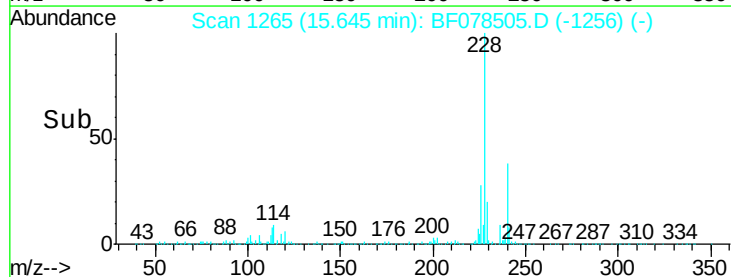
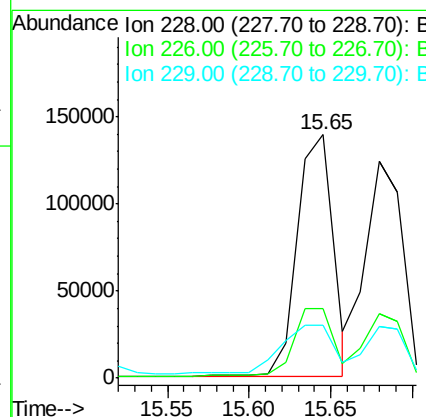
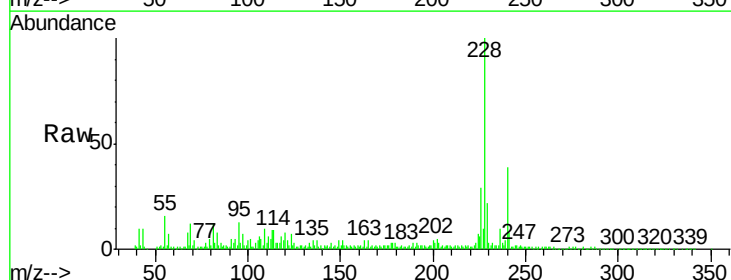
Instrument :
 BNA_F
 ClientSampleId :
 HS-SB05A

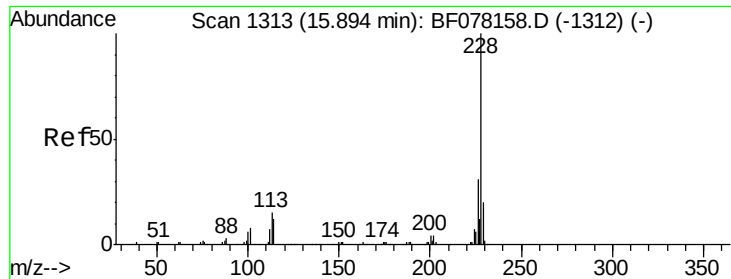
Tgt Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.0	7.4
122	9.4	7.1	10.7



#80
 Benzo(a)anthracene
 Concen: 38.29 ng
 RT: 15.65 min Scan# 1265
 Delta R.T. -0.00 min
 Lab File: BF078505.D
 Acq: 14 Apr 2015 18:05

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.8	21.3	31.9
229	22.0	15.4	23.2





#82

Chrysene

Concen: 37.09 ng m

RT: 15.68 min Scan# 1268

Delta R.T. -0.01 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

Instrument :

BNA_F

ClientSampleId :

HS-SB05A

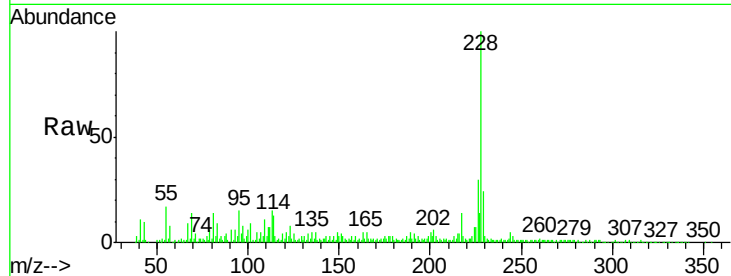
Tgt Ion:228 Resp: 194547

Ion Ratio Lower Upper

228 100

226 30.0 24.2 36.4

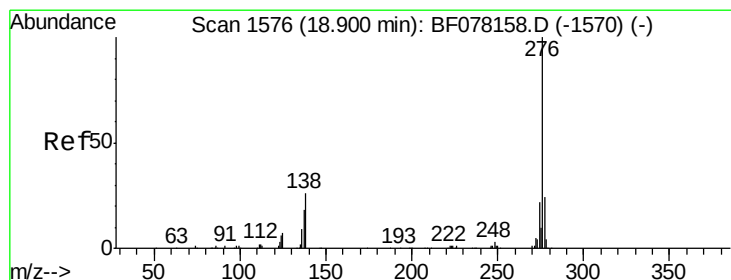
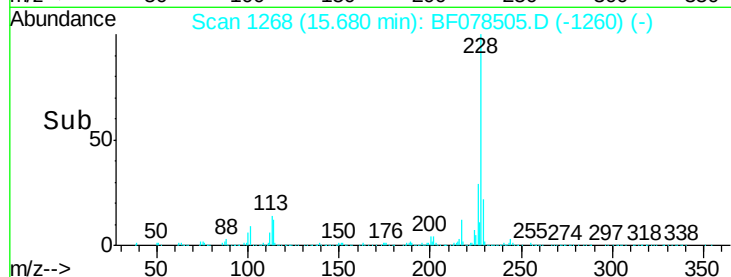
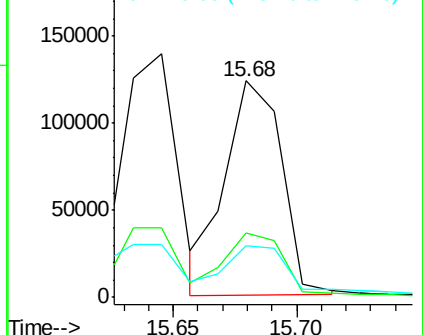
229 23.8 15.8 23.8#



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: 33.16 ng

RT: 18.74 min Scan# 1536

Delta R.T. -0.07 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

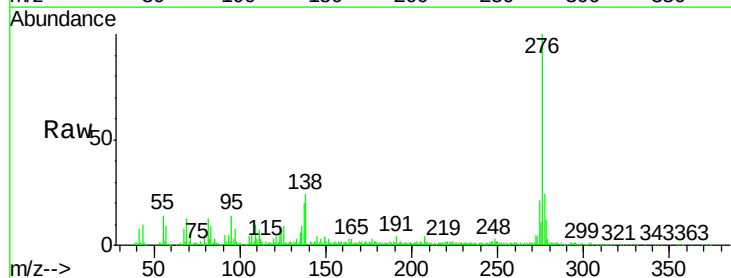
Tgt Ion:276 Resp: 197378

Ion Ratio Lower Upper

276 100

138 26.2 16.9 25.3#

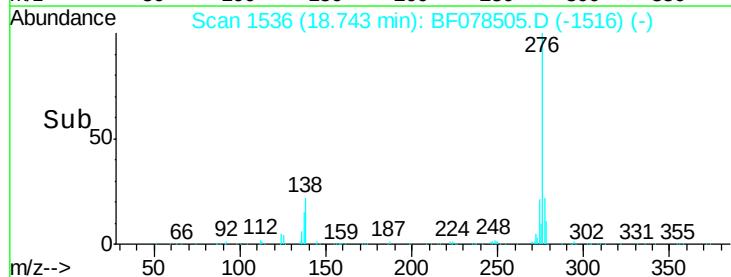
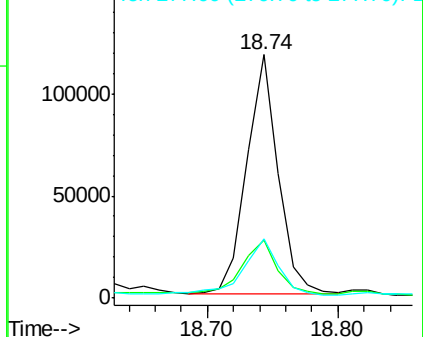
277 28.1 15.8 23.6#

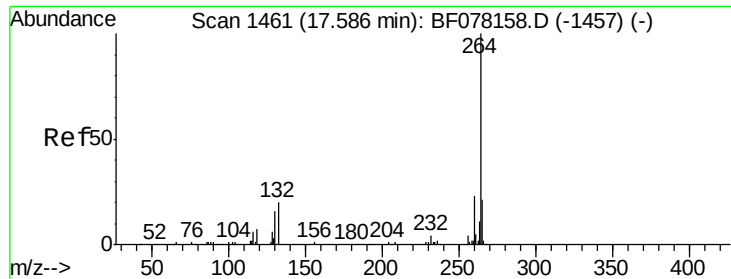


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

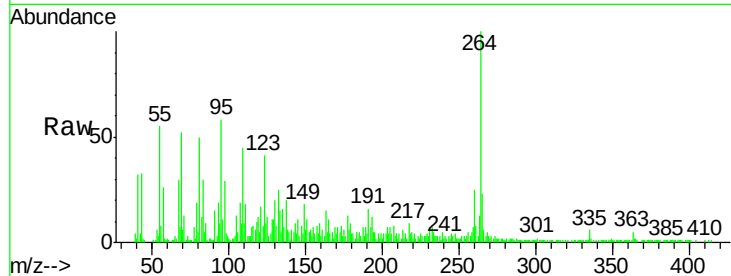




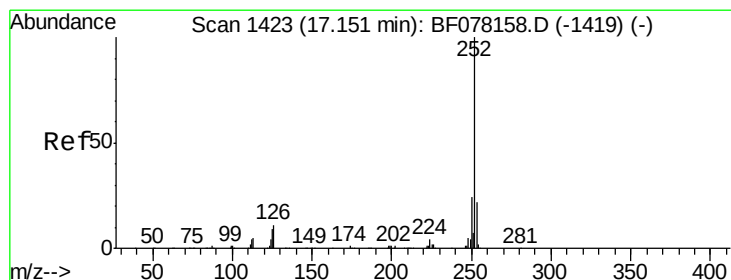
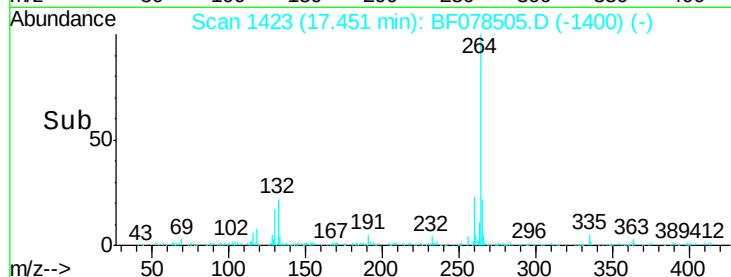
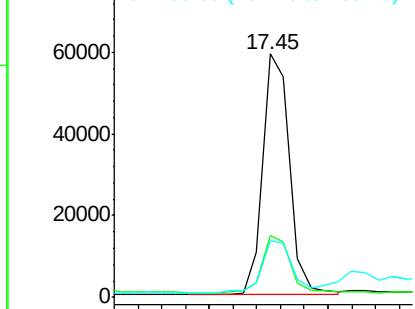
#86
Perylene-d12
Concen: 20.00 ng
RT: 17.45 min Scan# 1423
Delta R.T. -0.03 min
Lab File: BF078505.D
Acq: 14 Apr 2015 18:05

Instrument :
BNA_F
ClientSampleId :
HS-SB05A

Tgt Ion: 264 Resp: 93094
Ion Ratio Lower Upper
264 100
260 25.3 18.6 27.8
265 23.4 17.0 25.6

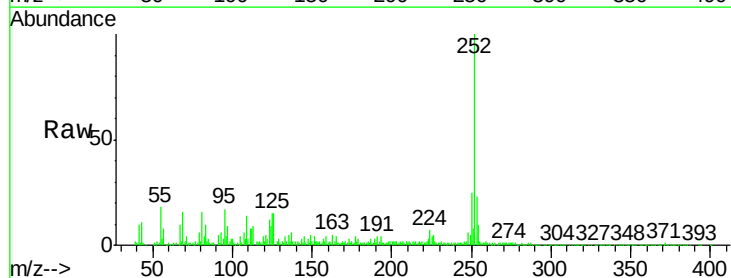


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

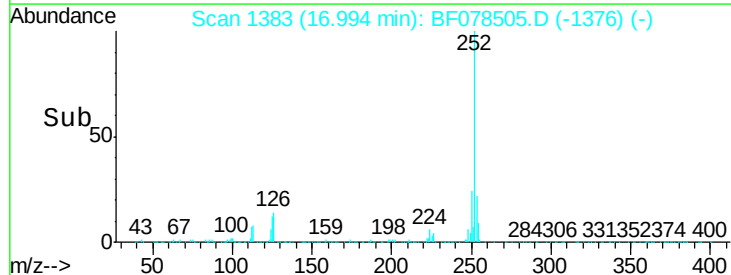
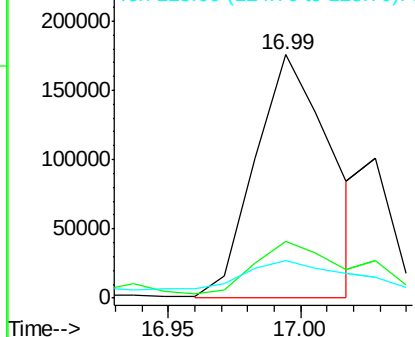


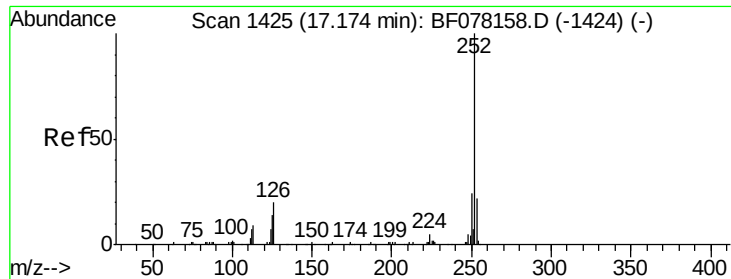
#87
Benzo(b)fluoranthene
Concen: 61.12 ng m
RT: 16.99 min Scan# 1383
Delta R.T. -0.02 min
Lab File: BF078505.D
Acq: 14 Apr 2015 18:05

Tgt Ion: 252 Resp: 351658
Ion Ratio Lower Upper
252 100
253 23.3 17.2 25.8
125 15.4 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: 16.68 ng m

RT: 17.03 min Scan# 1386

Delta R.T. -0.02 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

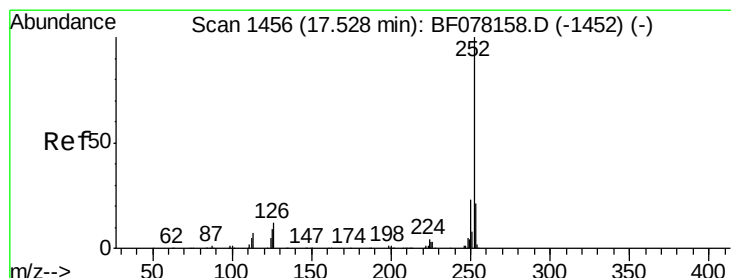
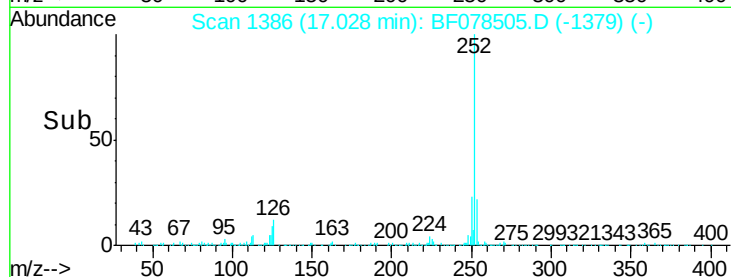
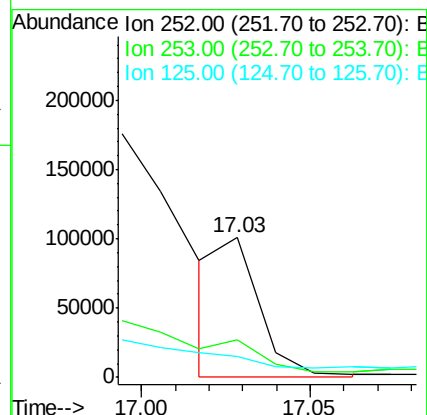
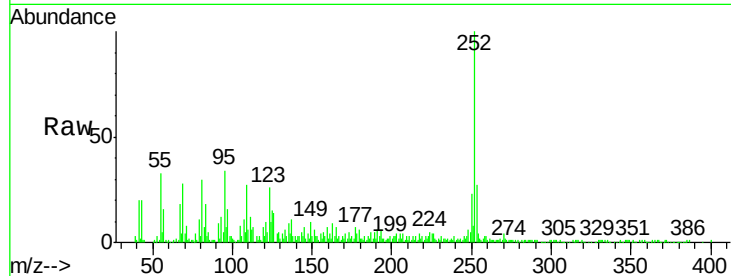
Instrument :

BNA_F

ClientSampleId :

HS-SB05A

Tgt Ion:	252	Resp:	85285
Ion Ratio	Lower	Upper	
252	100		
253	26.6	17.5	26.3#
125	15.1	11.6	17.4



#89

Benzo(a)pyrene

Concen: 46.93 ng

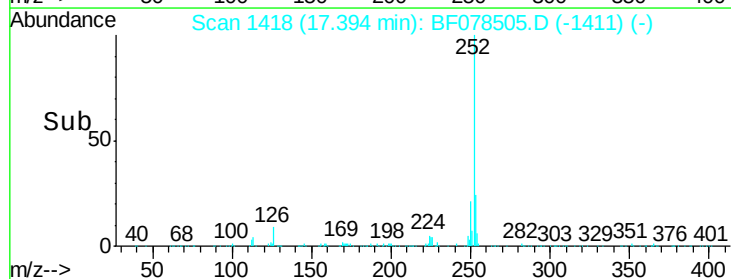
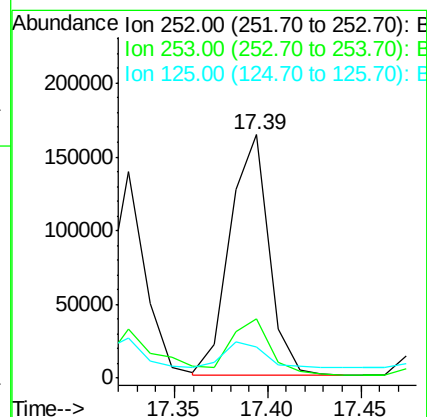
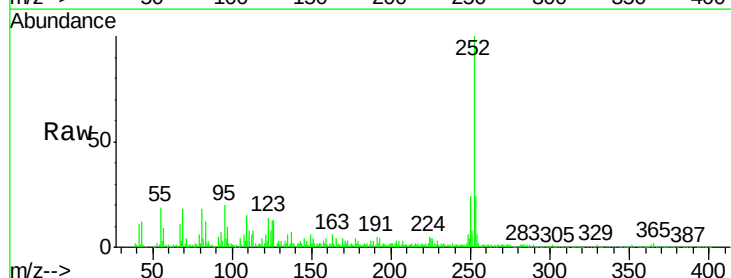
RT: 17.39 min Scan# 1418

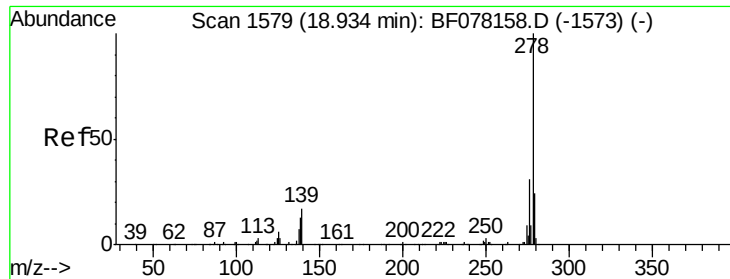
Delta R.T. -0.02 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

Tgt Ion:	252	Resp:	235641
Ion Ratio	Lower	Upper	
252	100		
253	24.3	16.8	25.2
125	13.0	7.4	11.0#





#90

Dibenzo(a,h)anthracene

Concen: 8.94 ng m

RT: 18.75 min Scan# 1537

Delta R.T. -0.08 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

Instrument :

BNA_F

ClientSampleId :

HS-SB05A

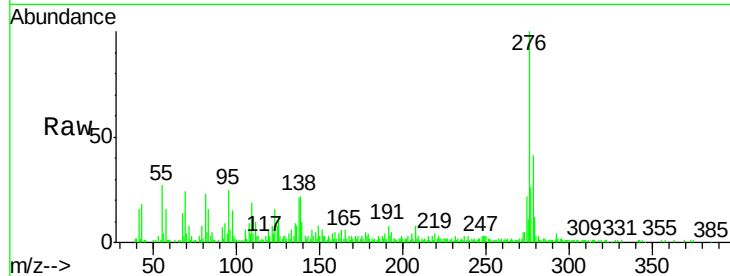
Tgt Ion:278 Resp: 44964

Ion Ratio Lower Upper

278 100

139 24.7 13.6 20.4#

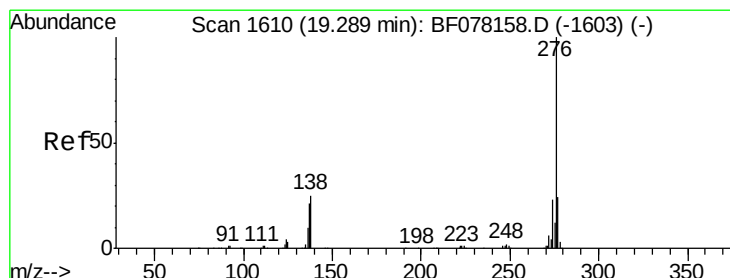
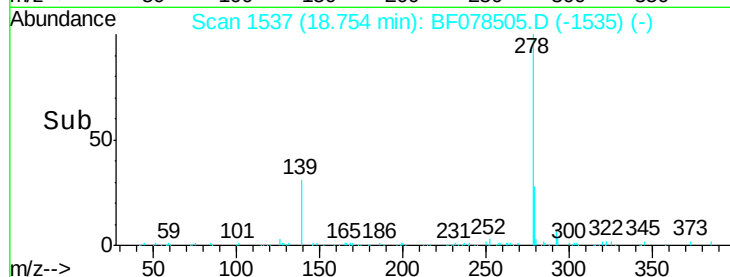
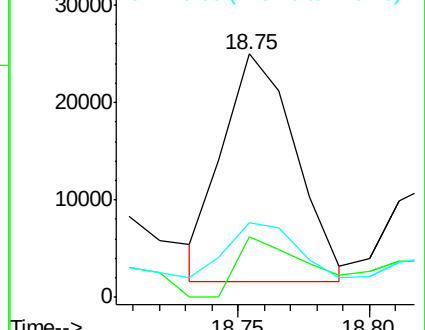
279 30.5 19.0 28.6#



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: 42.59 ng

RT: 19.10 min Scan# 1567

Delta R.T. -0.06 min

Lab File: BF078505.D

Acq: 14 Apr 2015 18:05

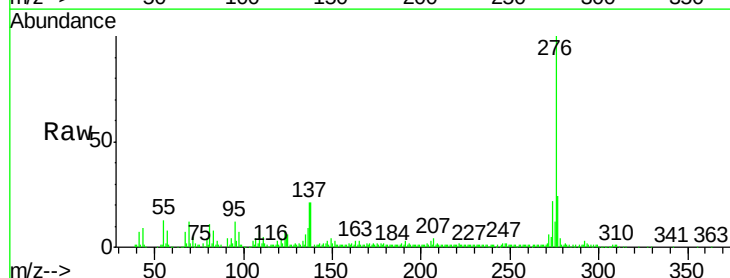
Tgt Ion:276 Resp: 214686

Ion Ratio Lower Upper

276 100

277 23.8 19.0 28.4

138 20.8 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

