

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041415\
 Data File : BF078509.D
 Acq On : 14 Apr 2015 19:59
 Operator : TP/IZ
 Sample : G1828-05 5X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HS-SB03A

Quant Time: Apr 15 10:53:17 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	18085	20.00	ng	0.00
21) Naphthalene-d8	8.39	136	78517	20.00	ng	0.00
38) Acenaphthene-d10	10.54	164	42810	20.00	ng	0.00
63) Phenanthrene-d10	12.37	188	91876	20.00	ng	0.00
75) Chrysene-d12	15.65	240	107686	20.00	ng	-0.01
86) Perylene-d12	17.43	264	118603	20.00	ng	-0.06

System Monitoring Compounds						
5) 2-Fluorophenol	5.06	112	21854	19.92	ng	0.01
7) Phenol-d6	6.41	99	30842	22.44	ng	0.00
23) Nitrobenzene-d5	7.51	82	17439	13.46	ng	0.00
41) 2,4,6-Tribromophenol	11.52	330	7345	20.69	ng	0.00
44) 2-Fluorobiphenyl	9.74	172	32456	10.84	ng	0.00
78) Terphenyl-d14	14.35	244	53101	11.14	ng	0.00

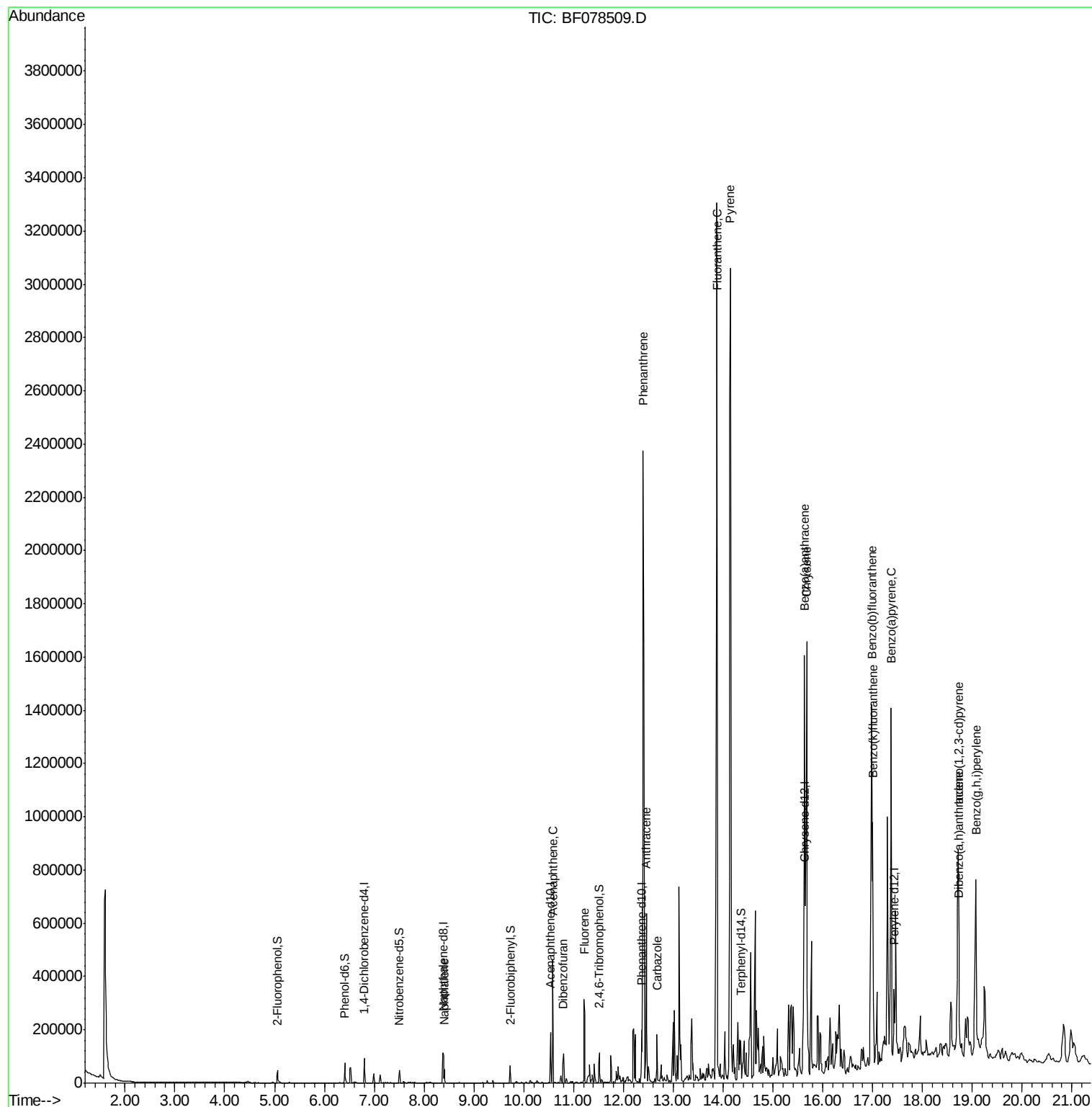
Target Compounds				Qvalue		
31) Naphthalene	8.41	128	24029	5.88	ng	99
51) Acenaphthene	10.58	154	111780	44.63	ng	99
54) Dibenzofuran	10.80	168	58980	15.42	ng	93
57) Fluorene	11.21	166	130546	42.10	ng	99
70) Phenanthrene	12.40	178	1422816	267.72	ng	97
71) Anthracene	12.46	178	264248	50.46	ng	99
72) Carbazole	12.67	167	73295	14.93	ng	100
74) Fluoranthene	13.87	202	2041542	364.25	ng	98
77) Pyrene	14.15	202	1716589	253.93	ng	# 93
80) Benzo(a)anthracene	15.63	228	849895	132.65	ng	97
82) Chrysene	15.68	228	703712	116.90	ng	97
85) Indeno(1,2,3-cd)pyrene	18.72	276	553188m	80.98	ng	
87) Benzo(b)fluoranthene	16.98	252	1048879m	143.09	ng	
88) Benzo(k)fluoranthene	17.01	252	319616m	49.07	ng	
89) Benzo(a)pyrene	17.37	252	732990	114.58	ng	# 93
90) Dibenzo(a,h)anthracene	18.73	278	93038m	14.53	ng	
91) Benzo(g,h,i)perylene	19.07	276	523277	81.49	ng	97

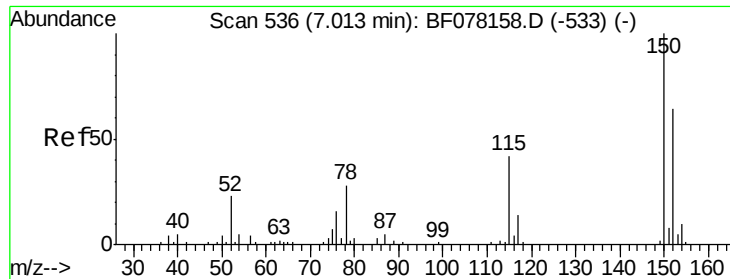
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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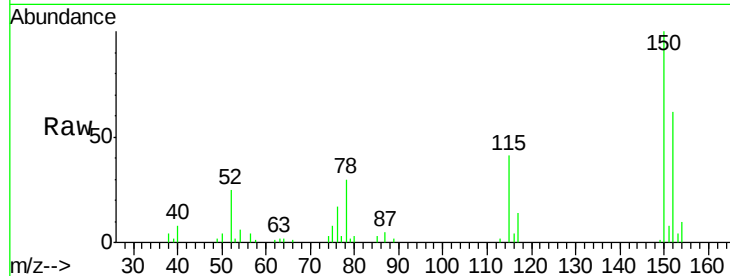


#1

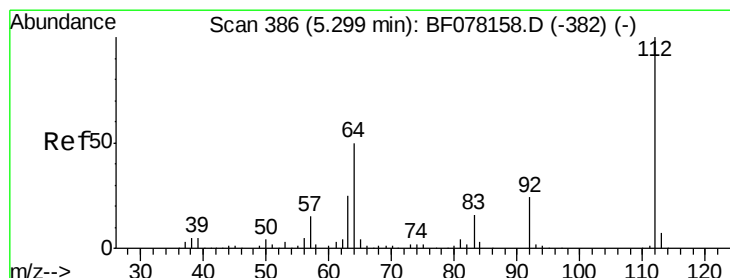
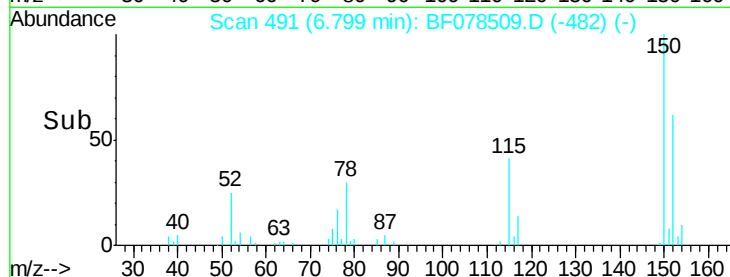
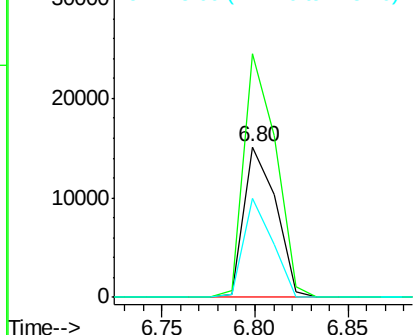
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.80 min Scan# 491
Delta R.T. -0.00 min
Lab File: BF078509.D
Acq: 14 Apr 2015 19:59

Instrument :
BNA_F
ClientSampleId :
HS-SB03A

Tgt Ion:152 Resp: 18085
Ion Ratio Lower Upper
152 100
150 161.8 125.9 188.9
115 66.1 52.7 79.1



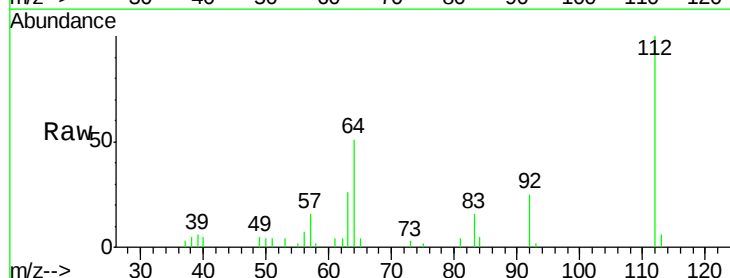
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



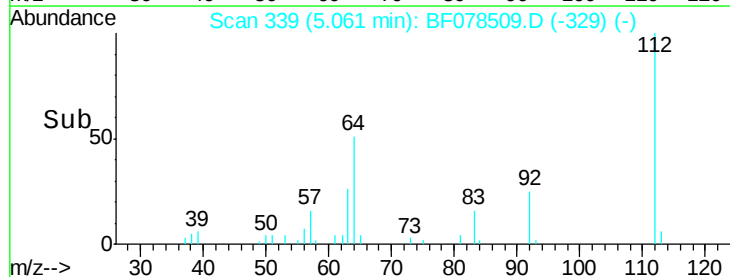
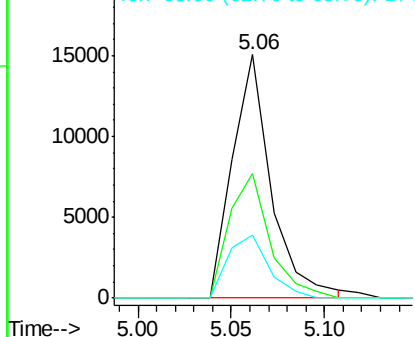
#5

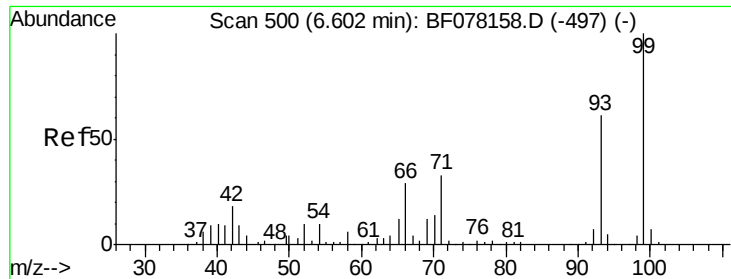
2-Fluorophenol
Concen: 19.92 ng
RT: 5.06 min Scan# 339
Delta R.T. 0.01 min
Lab File: BF078509.D
Acq: 14 Apr 2015 19:59

Tgt Ion:112 Resp: 21854
Ion Ratio Lower Upper
112 100
64 51.0 39.9 59.9
63 25.7 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: 22.44 ng

RT: 6.41 min Scan# 457

Delta R.T. -0.00 min

Lab File: BF078509.D

Acq: 14 Apr 2015 19:59

Instrument :

BNA_F

ClientSampleId :

HS-SB03A

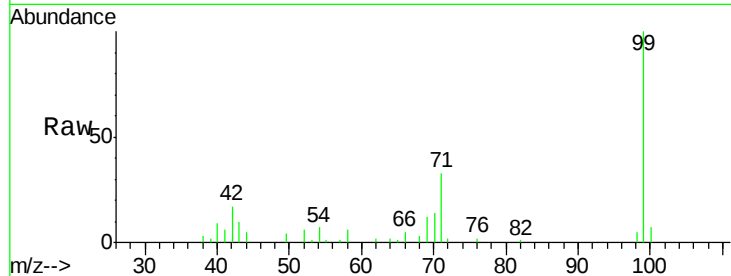
Tgt Ion: 99 Resp: 30842

Ion Ratio Lower Upper

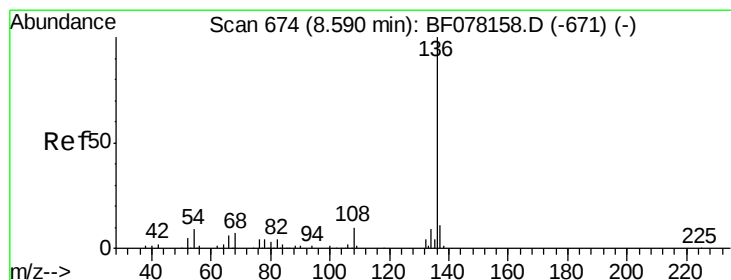
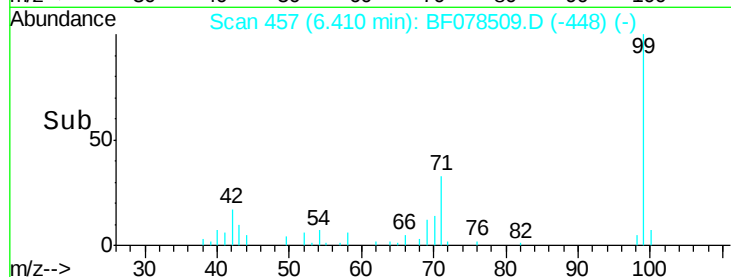
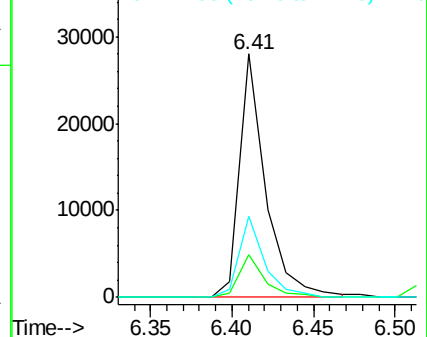
99 100

42 17.5 14.8 22.2

71 33.3 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: BF078509.D

Acq: 14 Apr 2015 19:59

Tgt Ion: 136 Resp: 78517

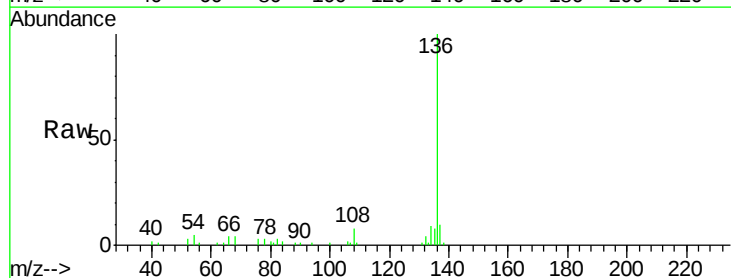
Ion Ratio Lower Upper

136 100

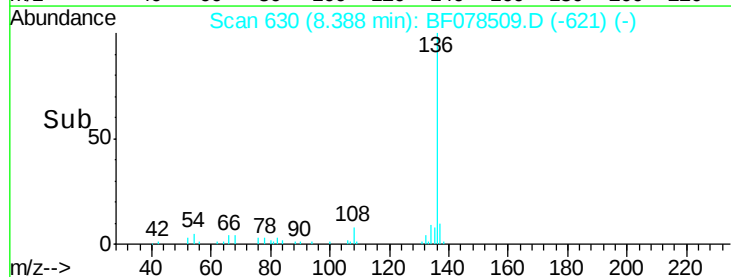
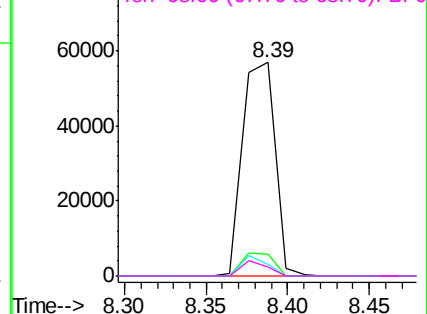
137 10.1 9.0 13.4

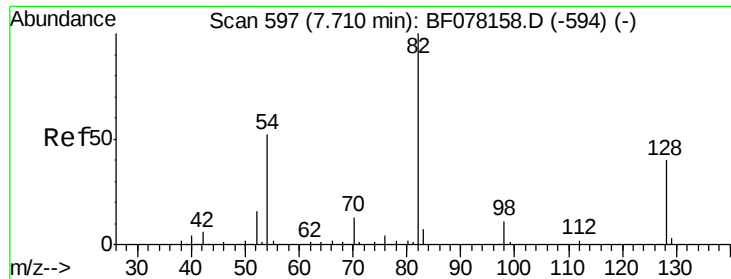
54 5.2 7.0 10.6#

68 4.0 5.4 8.2#



Abundance Ion 136.00 (135.70 to 136.70): E
Ion 137.00 (136.70 to 137.70): E
Ion 54.00 (53.70 to 54.70): BF0
Ion 68.00 (67.70 to 68.70): BF0

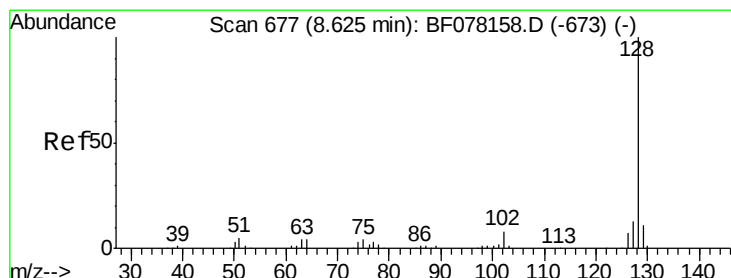
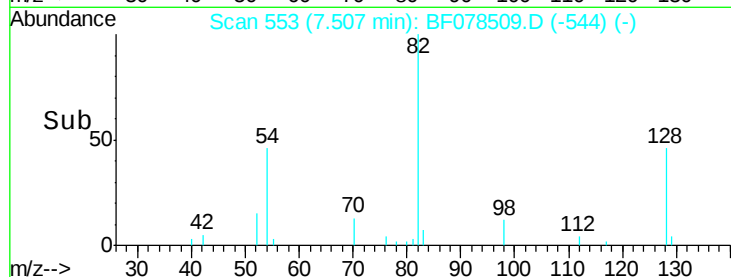
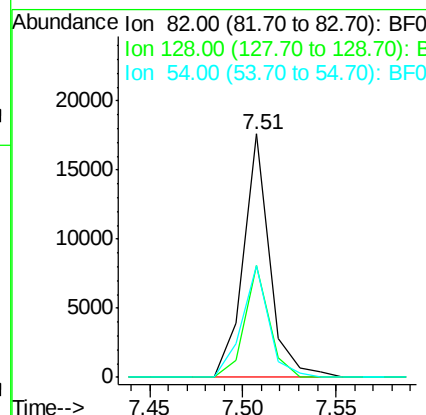
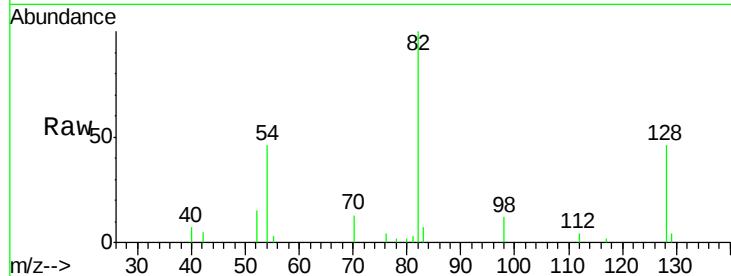




#23
 Nitrobenzene-d5
 Concen: 13.46 ng
 RT: 7.51 min Scan# 553
 Delta R.T. -0.00 min
 Lab File: BF078509.D
 Acq: 14 Apr 2015 19:59

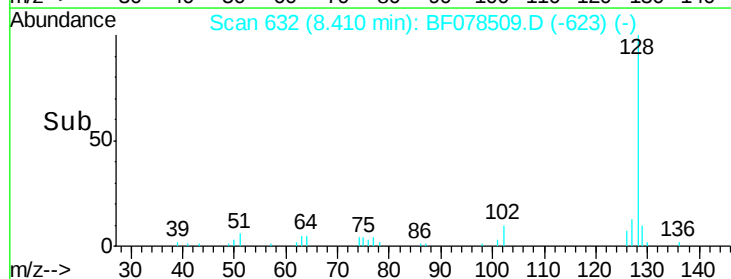
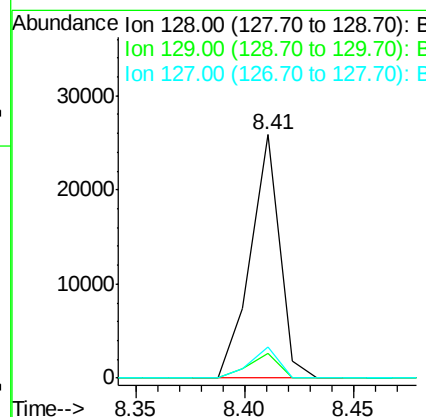
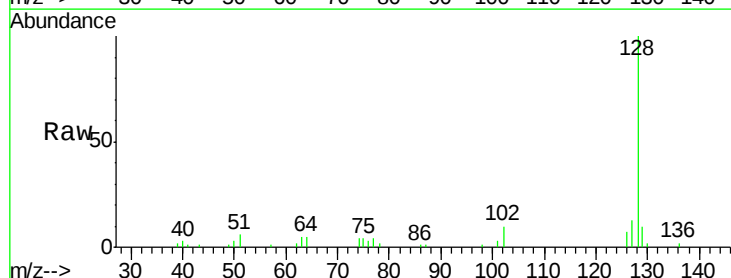
Instrument :
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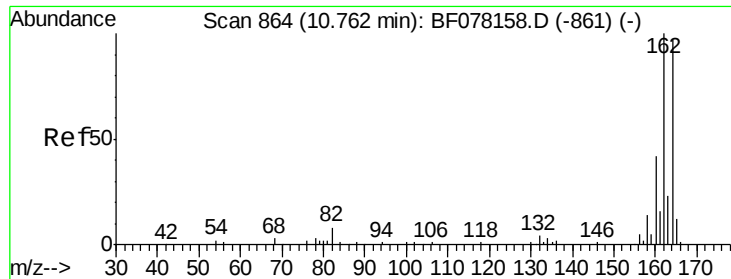
Tgt Ion: 82 Resp: 17439
 Ion Ratio Lower Upper
 82 100
 128 46.1 31.8 47.8
 54 45.7 41.5 62.3



#31
 Naphthalene
 Concen: 5.88 ng
 RT: 8.41 min Scan# 632
 Delta R.T. -0.00 min
 Lab File: BF078509.D
 Acq: 14 Apr 2015 19:59

Tgt Ion: 128 Resp: 24029
 Ion Ratio Lower Upper
 128 100
 129 10.1 8.6 12.8
 127 12.8 10.7 16.1

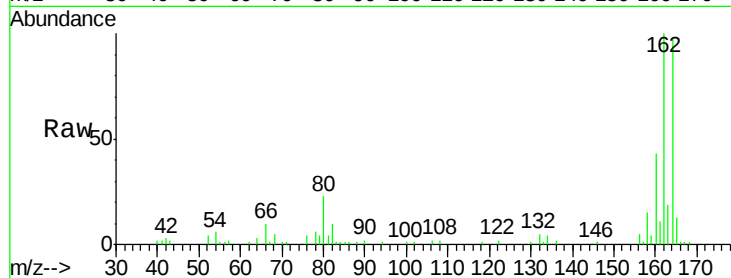




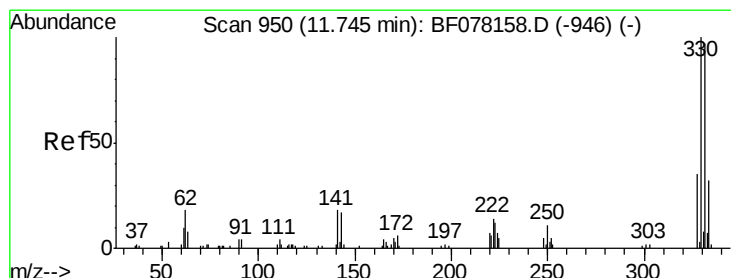
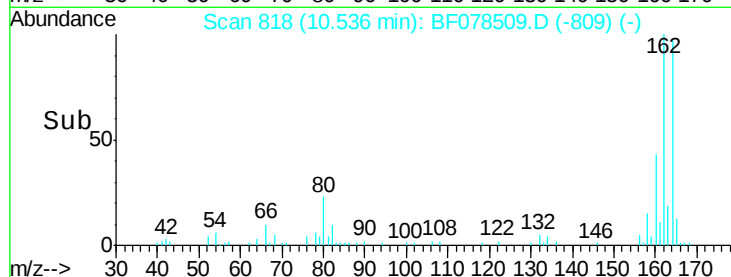
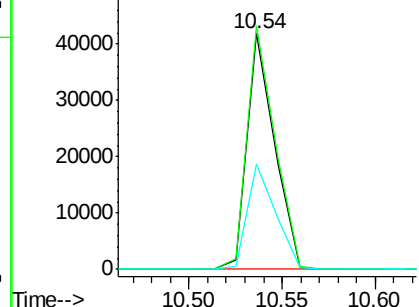
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.54 min Scan# 818
 Delta R.T. -0.00 min
 Lab File: BF078509.D
 Acq: 14 Apr 2015 19:59

Instrument :
 BNA_F
 ClientSampleId :
 HS-SB03A

Tgt Ion:164 Resp: 42810
 Ion Ratio Lower Upper
 164 100
 162 103.3 82.2 123.2
 160 44.8 34.7 52.1

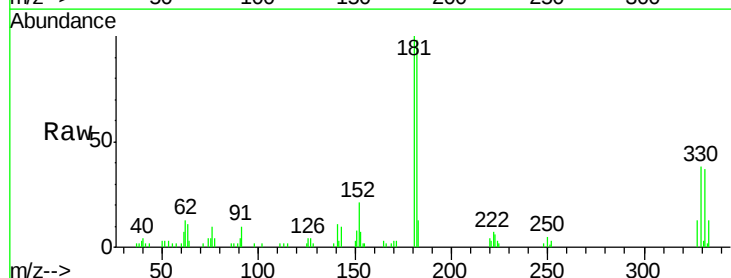


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

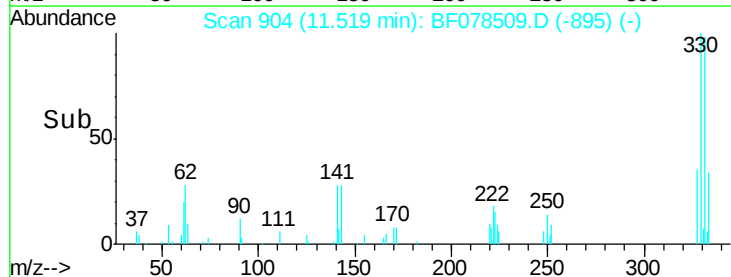
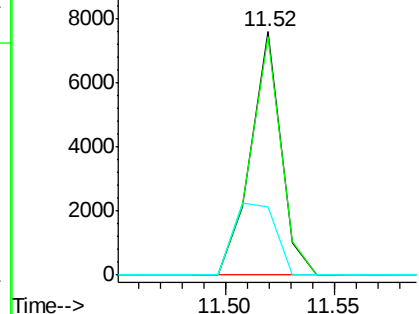


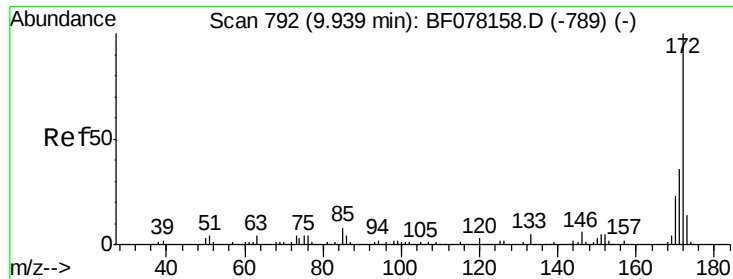
#41
 2,4,6-Tribromophenol
 Concen: 20.69 ng
 RT: 11.52 min Scan# 904
 Delta R.T. -0.00 min
 Lab File: BF078509.D
 Acq: 14 Apr 2015 19:59

Tgt Ion:330 Resp: 7345
 Ion Ratio Lower Upper
 330 100
 332 99.5 78.6 117.8
 141 40.8 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

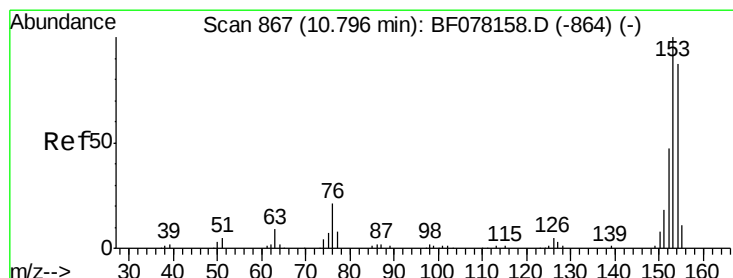
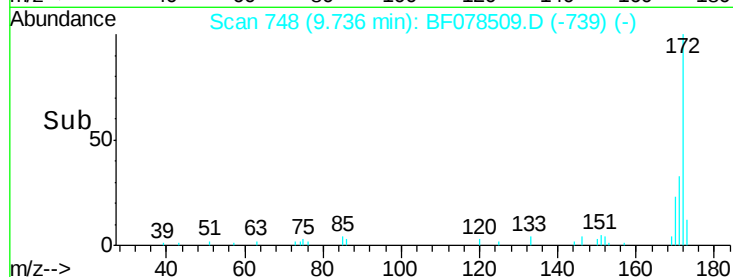
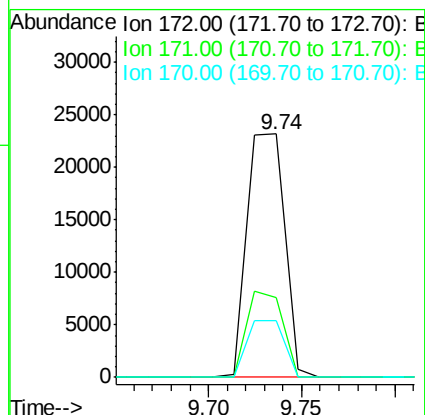
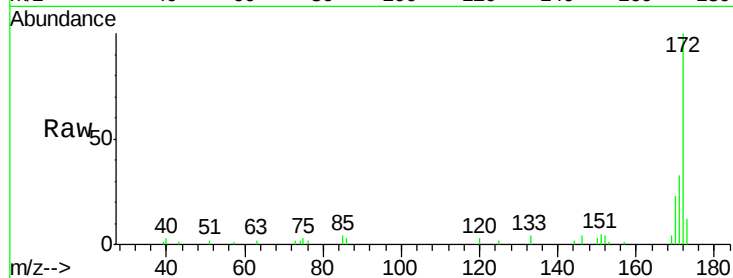




#44
 2-Fluorobiphenyl
 Concen: 10.84 ng
 RT: 9.74 min Scan# 748
 Delta R.T. -0.00 min
 Lab File: BF078509.D
 Acq: 14 Apr 2015 19:59

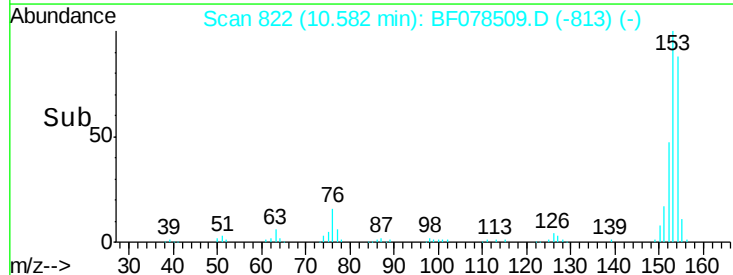
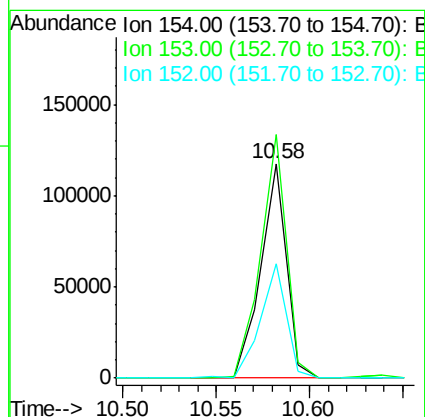
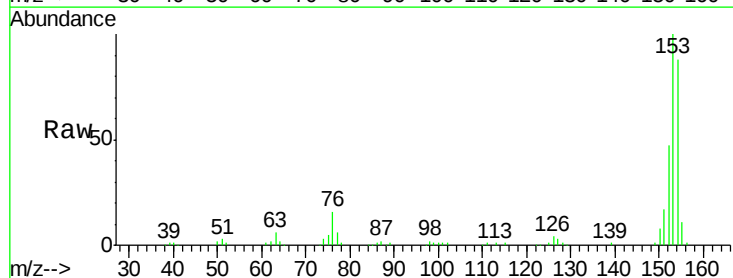
Instrument :
 BNA_F
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 HS-SB03A

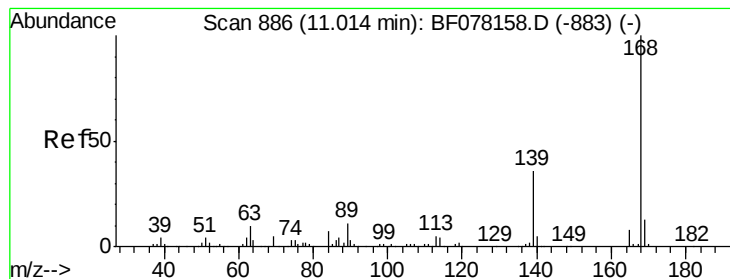
Tgt Ion:172 Resp: 32456
 Ion Ratio Lower Upper
 172 100
 171 32.7 28.6 42.8
 170 23.1 18.5 27.7



#51
 Acenaphthene
 Concen: 44.63 ng
 RT: 10.58 min Scan# 822
 Delta R.T. -0.00 min
 Lab File: BF078509.D
 Acq: 14 Apr 2015 19:59

Tgt Ion:154 Resp: 111780
 Ion Ratio Lower Upper
 154 100
 153 113.4 91.4 137.2
 152 53.4 43.0 64.6





#54

Dibenzenofuran

Concen: 15.42 ng

RT: 10.80 min Scan# 841

Delta R.T. -0.00 min

Lab File: BF078509.D

Acq: 14 Apr 2015 19:59

Instrument :

BNA_F

ClientSampleId :

HS-SB03A

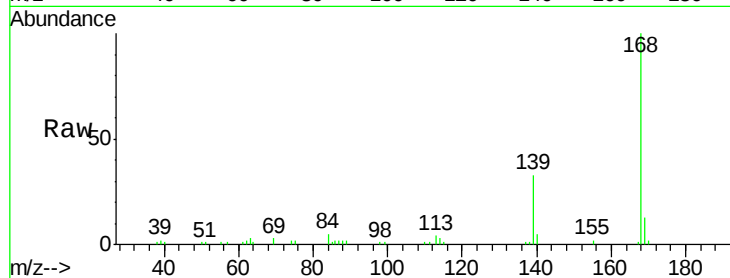
Tgt Ion:168 Resp: 58980

Ion Ratio Lower Upper

168 100

139 33.5 31.0 46.4

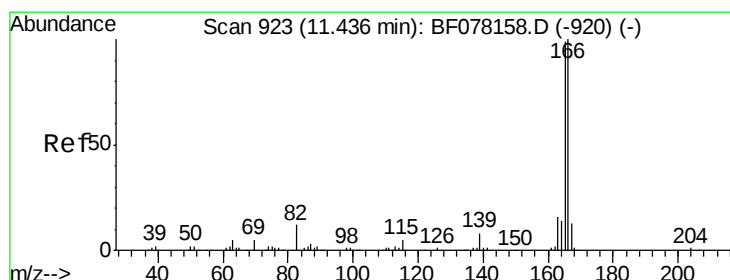
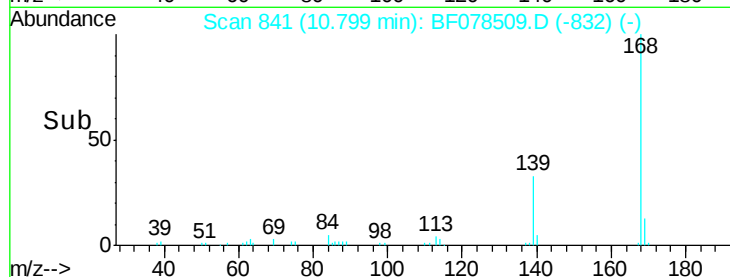
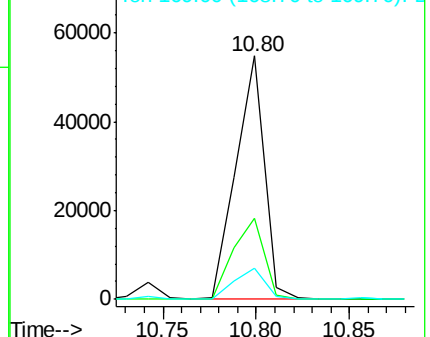
169 12.7 10.7 16.1



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: 42.10 ng

RT: 11.21 min Scan# 877

Delta R.T. -0.01 min

Lab File: BF078509.D

Acq: 14 Apr 2015 19:59

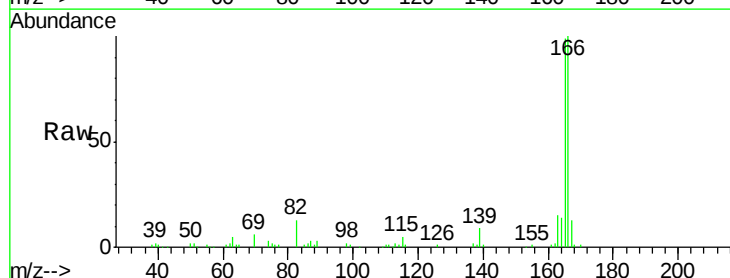
Tgt Ion:166 Resp: 130546

Ion Ratio Lower Upper

166 100

165 99.3 78.9 118.3

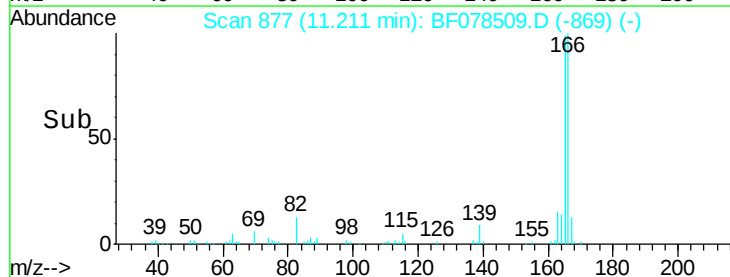
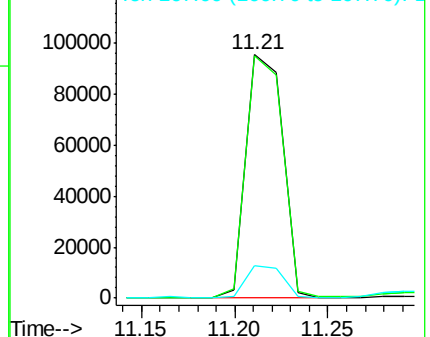
167 13.4 10.7 16.1

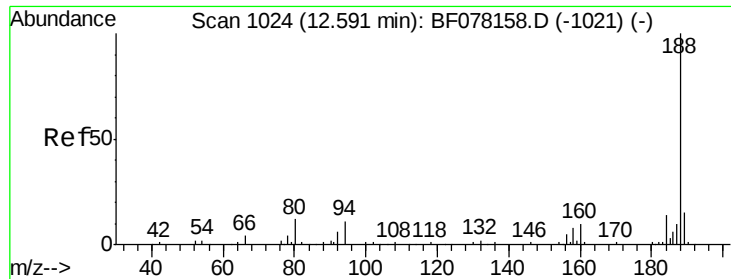


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

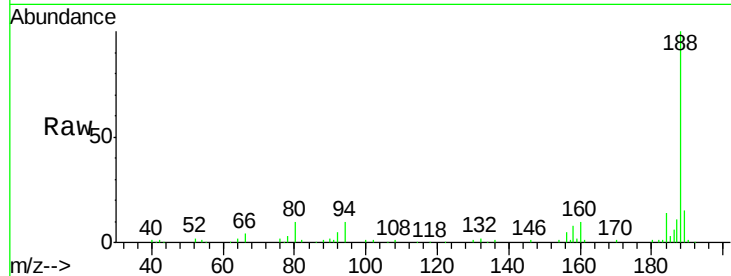




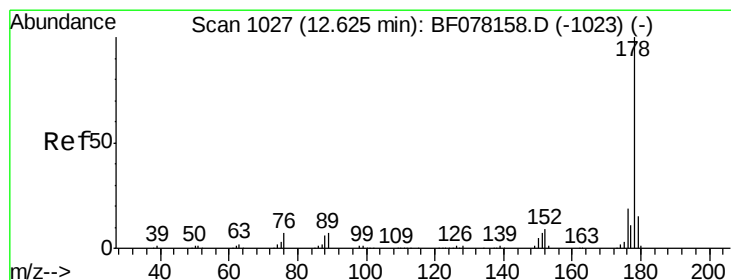
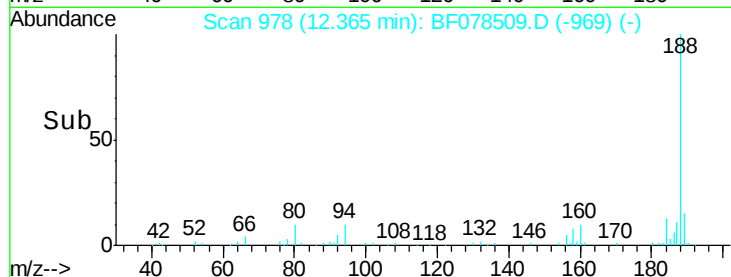
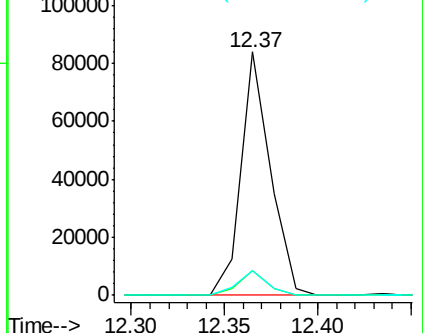
#63
Phenanthrene-d10
Concen: 20.00 ng
RT: 12.37 min Scan# 978
Delta R.T. -0.00 min
Lab File: BF078509.D
Acq: 14 Apr 2015 19:59

Instrument :
BNA_F
ClientSampleId :
HS-SB03A

Tgt Ion:188 Resp: 91876
Ion Ratio Lower Upper
188 100
94 10.2 9.0 13.4
80 10.2 9.5 14.3

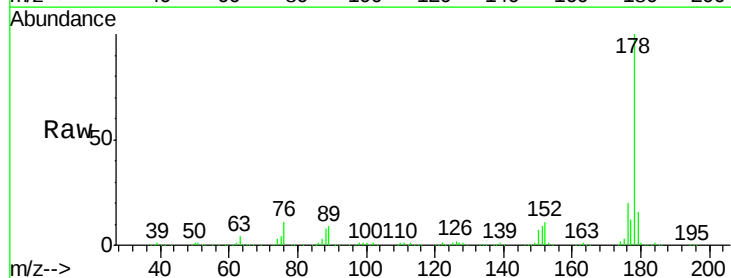


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BF0
Ion 80.00 (79.70 to 80.70): BF0

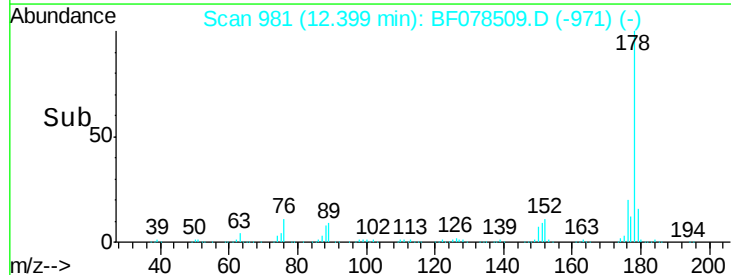
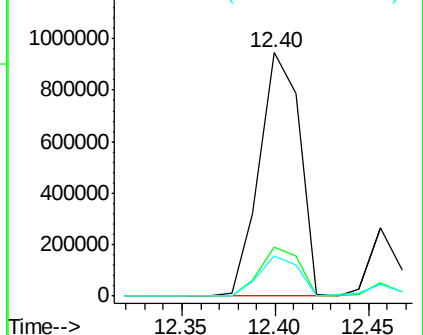


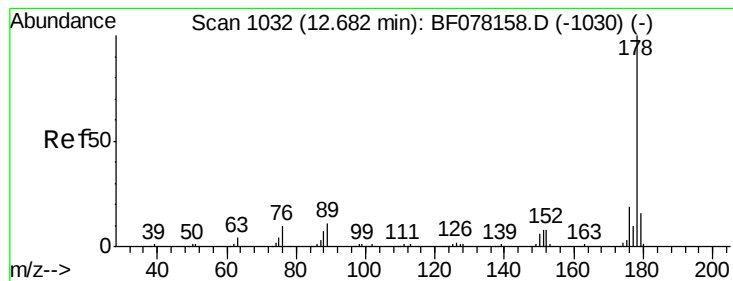
#70
Phenanthrene
Concen: 267.72 ng
RT: 12.40 min Scan# 981
Delta R.T. 0.01 min
Lab File: BF078509.D
Acq: 14 Apr 2015 19:59

Tgt Ion:178 Resp: 1422816
Ion Ratio Lower Upper
178 100
176 20.4 15.4 23.0
179 16.2 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: 50.46 ng

RT: 12.46 min Scan# 986

Delta R.T. -0.00 min

Lab File: BF078509.D

Acq: 14 Apr 2015 19:59

Instrument :

BNA_F

ClientSampleId :

HS-SB03A

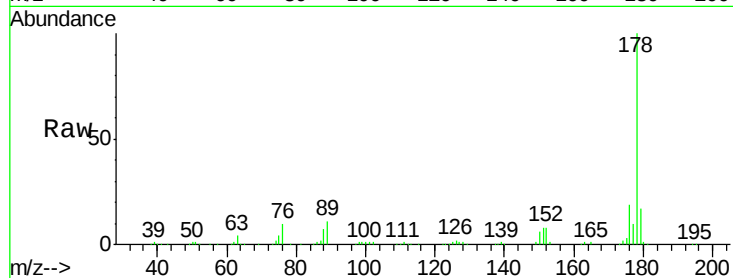
Tgt Ion:178 Resp: 264248

Ion Ratio Lower Upper

178 100

176 18.7 14.8 22.2

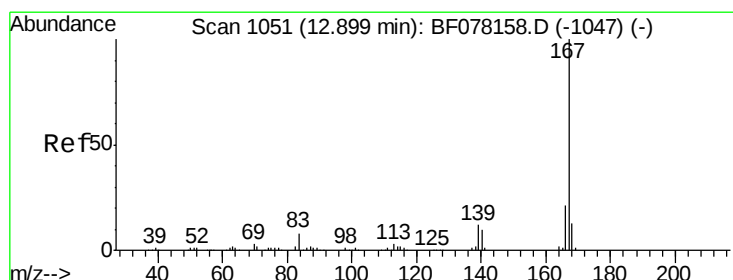
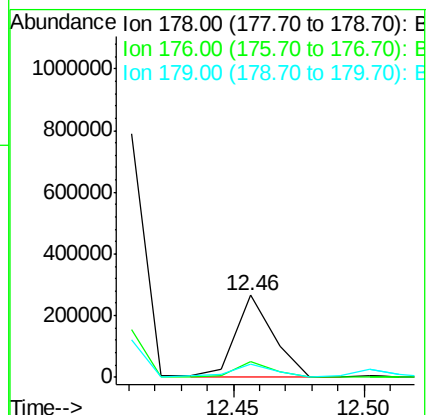
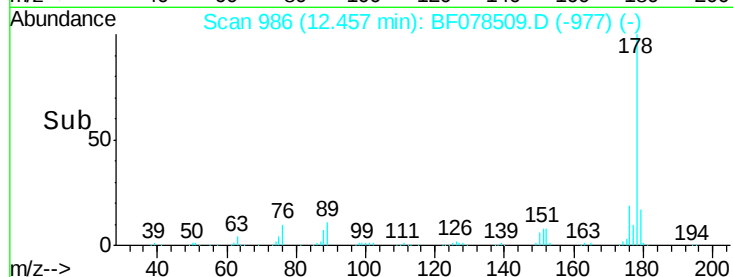
179 16.5 12.4 18.6



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: 14.93 ng

RT: 12.67 min Scan# 1005

Delta R.T. -0.00 min

Lab File: BF078509.D

Acq: 14 Apr 2015 19:59

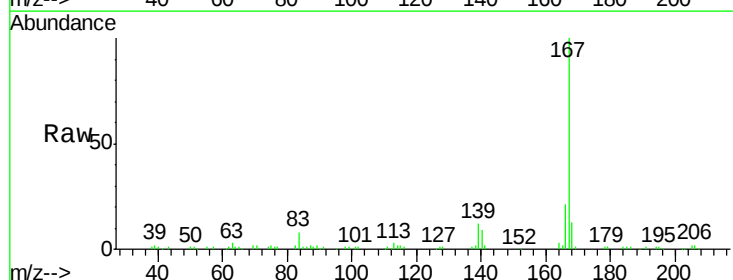
Tgt Ion:167 Resp: 73295

Ion Ratio Lower Upper

167 100

166 20.9 16.8 25.2

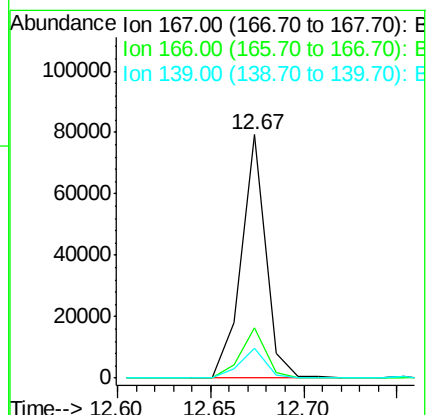
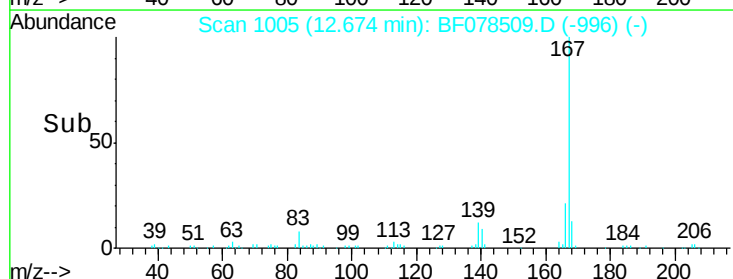
139 12.3 10.0 15.0

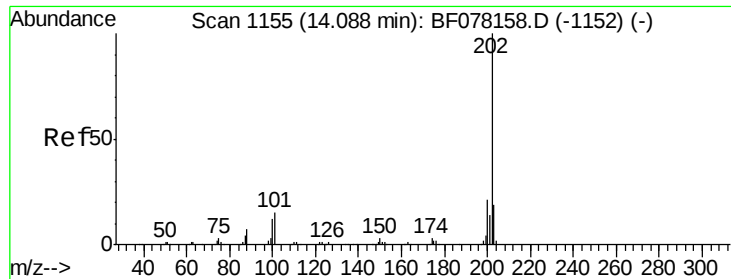


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 364.25 ng

RT: 13.87 min Scan# 1110

Delta R.T. 0.02 min

Lab File: BF078509.D

Acq: 14 Apr 2015 19:59

Instrument :

BNA_F

ClientSampleId :

HS-SB03A

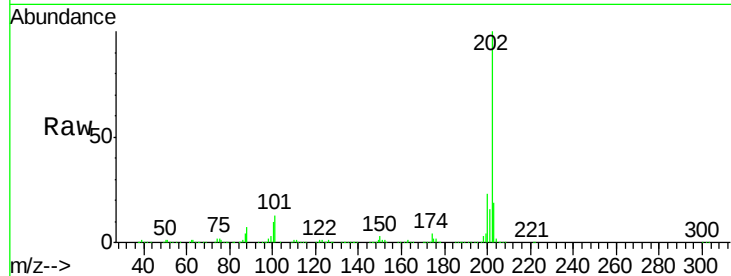
Tgt Ion:202 Resp: 2041542

Ion Ratio Lower Upper

202 100

101 13.1 0.0 35.2

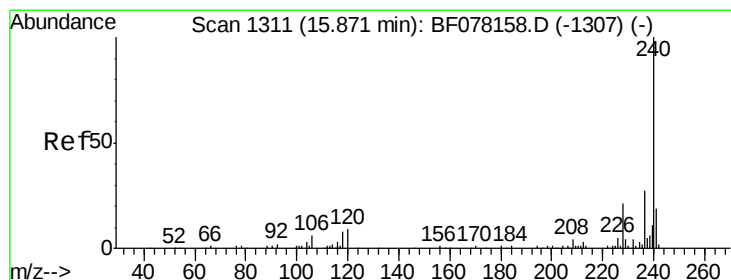
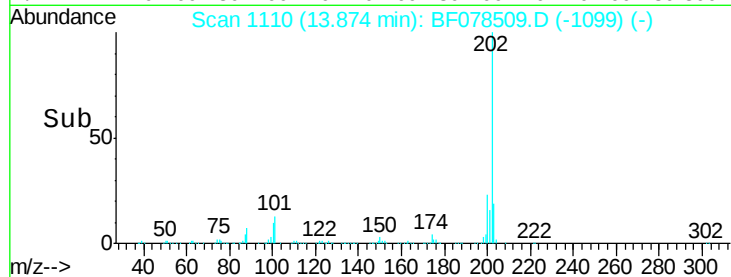
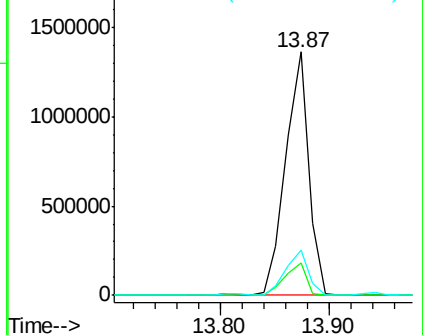
203 18.6 0.0 38.5



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: BF078509.D

Acq: 14 Apr 2015 19:59

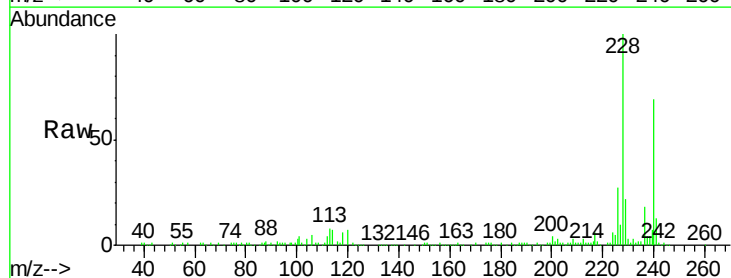
Tgt Ion:240 Resp: 107686

Ion Ratio Lower Upper

240 100

120 10.1 7.1 10.7

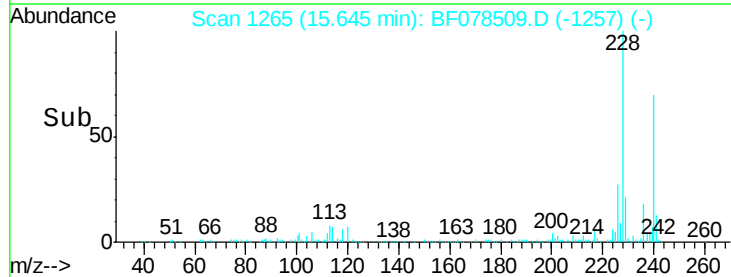
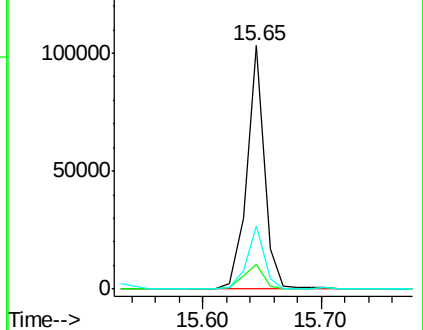
236 25.8 21.4 32.2

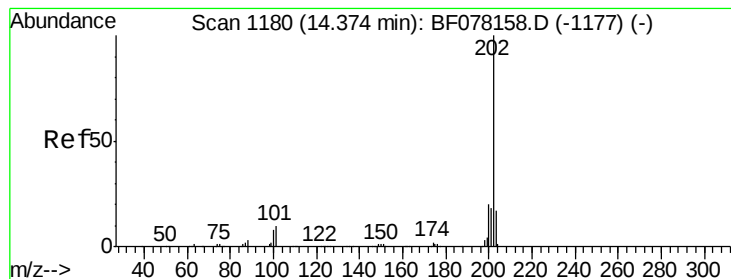


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pyrene

Concen: 253.93 ng

RT: 14.15 min Scan# 1134

Delta R.T. 0.02 min

Lab File: BF078509.D

Acq: 14 Apr 2015 19:59

Instrument :

BNA_F

ClientSampleId :

HS-SB03A

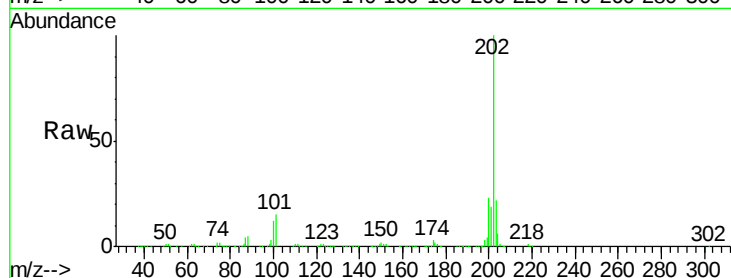
Tgt Ion:202 Resp: 1716589

Ion Ratio Lower Upper

202 100

200 22.7 16.3 24.5

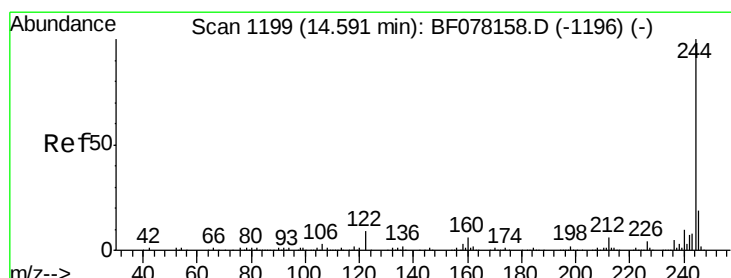
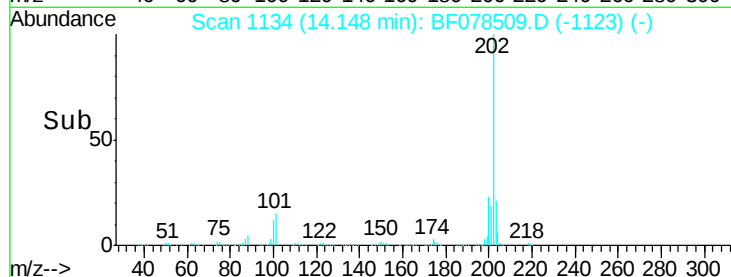
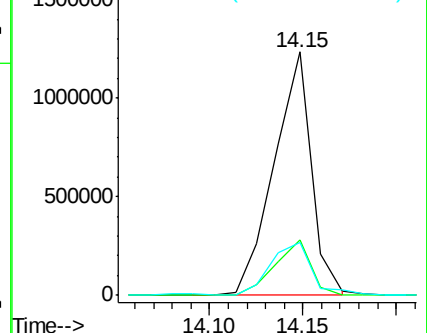
203 21.7 13.8 20.6#



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: 11.14 ng

RT: 14.35 min Scan# 1152

Delta R.T. -0.00 min

Lab File: BF078509.D

Acq: 14 Apr 2015 19:59

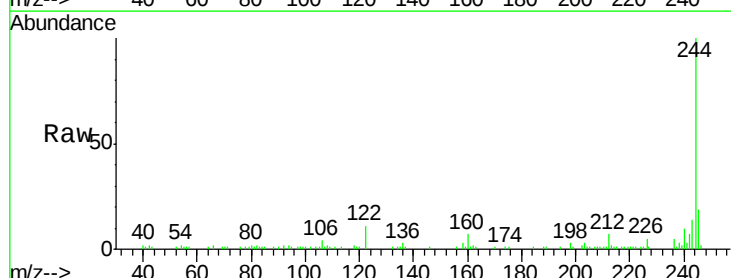
Tgt Ion:244 Resp: 53101

Ion Ratio Lower Upper

244 100

212 6.6 5.0 7.4

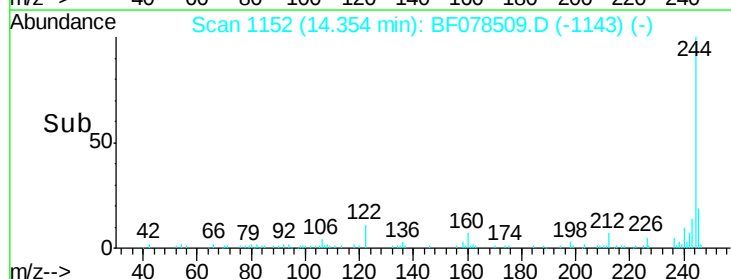
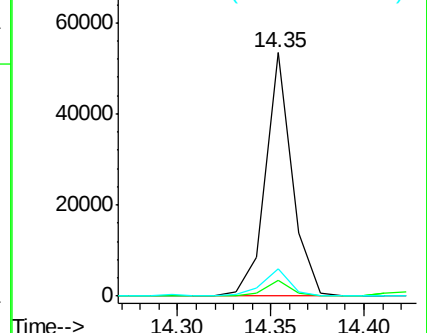
122 11.5 7.1 10.7#

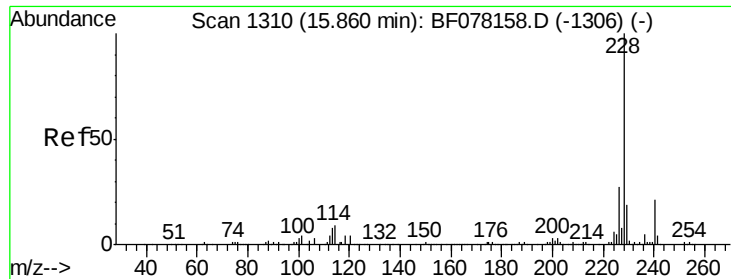


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 132.65 ng

RT: 15.63 min Scan# 1264

Delta R.T. -0.01 min

Lab File: BF078509.D

Acq: 14 Apr 2015 19:59

Instrument :

BNA_F

ClientSampleId :

HS-SB03A

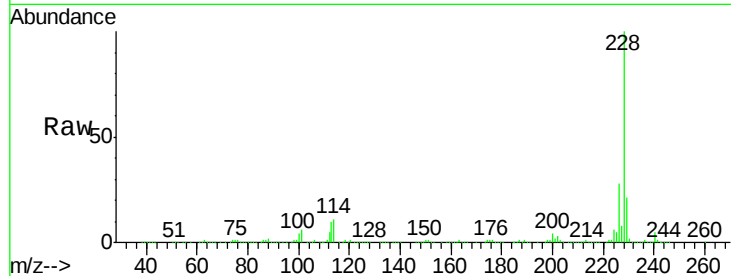
Tgt Ion:228 Resp: 849895

Ion Ratio Lower Upper

228 100

226 28.3 21.3 31.9

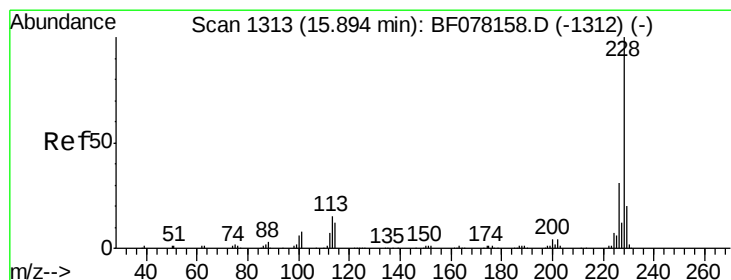
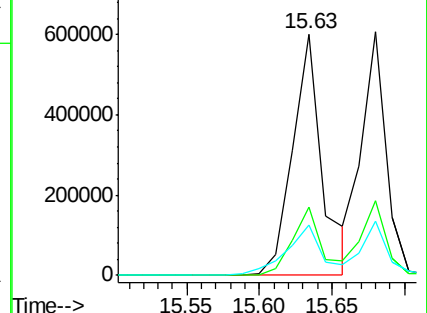
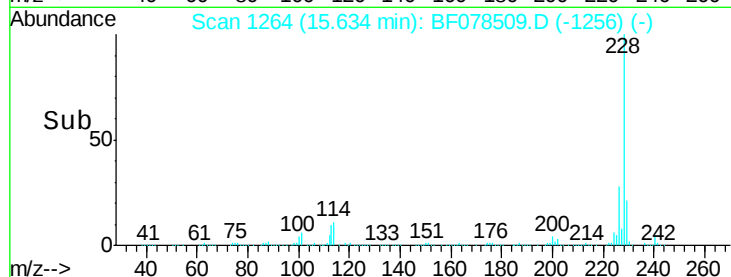
229 20.9 15.4 23.2



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: 116.90 ng

RT: 15.68 min Scan# 1268

Delta R.T. -0.01 min

Lab File: BF078509.D

Acq: 14 Apr 2015 19:59

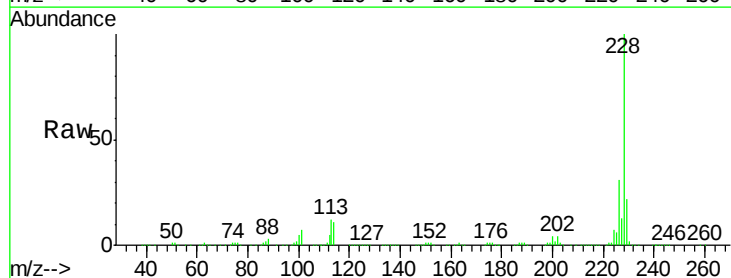
Tgt Ion:228 Resp: 703712

Ion Ratio Lower Upper

228 100

226 30.9 24.2 36.4

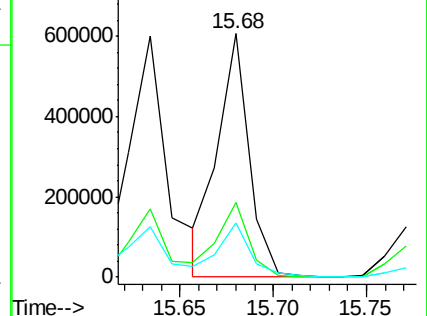
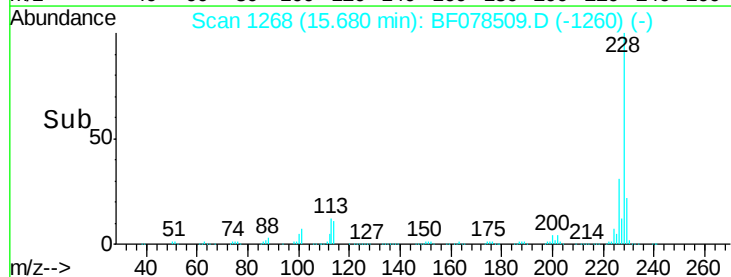
229 22.2 15.8 23.8

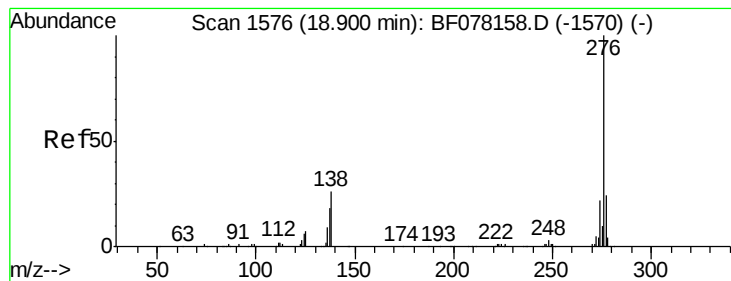


Abundance Ion 228.00 (227.70 to 228.70): E

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: 80.98 ng m

RT: 18.72 min Scan# 1534

Delta R.T. -0.09 min

Lab File: BF078509.D

Acq: 14 Apr 2015 19:59

Instrument :

BNA_F

ClientSampleId :

HS-SB03A

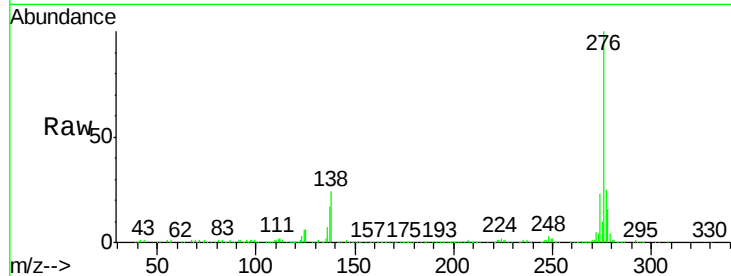
Tgt Ion:276 Resp: 553188

Ion Ratio Lower Upper

276 100

138 4.0 16.9 25.3#

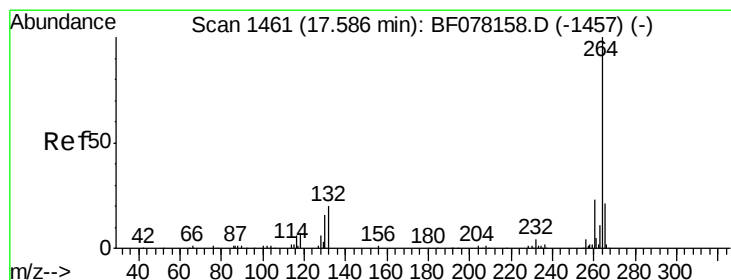
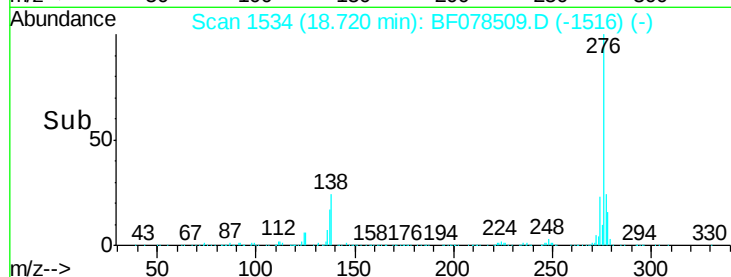
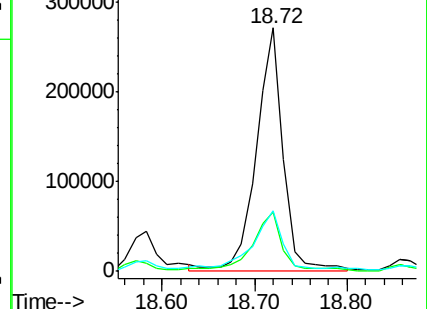
277 3.8 15.8 23.6#



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: 17.43 min Scan# 1421

Delta R.T. -0.06 min

Lab File: BF078509.D

Acq: 14 Apr 2015 19:59

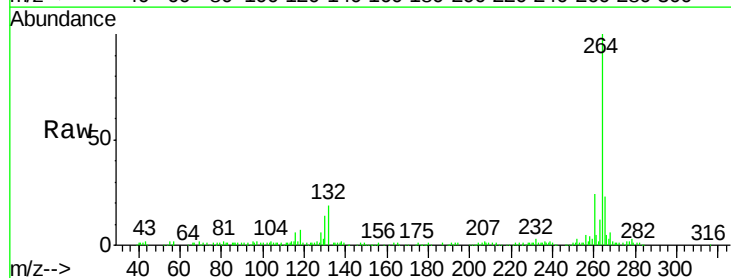
Tgt Ion:264 Resp: 118603

Ion Ratio Lower Upper

264 100

260 24.0 18.6 27.8

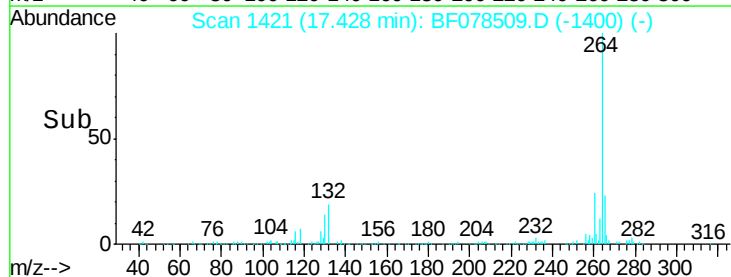
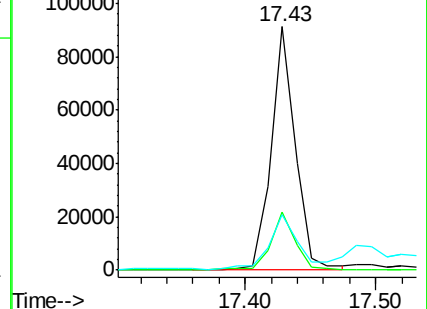
265 23.0 17.0 25.6

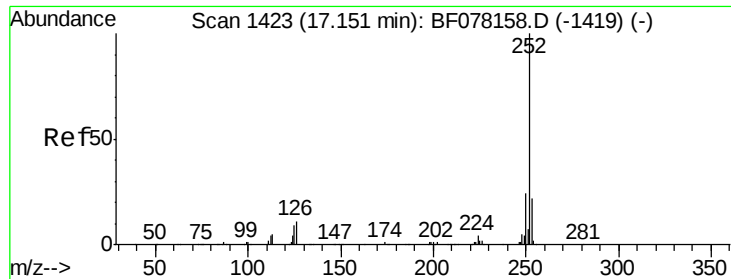


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

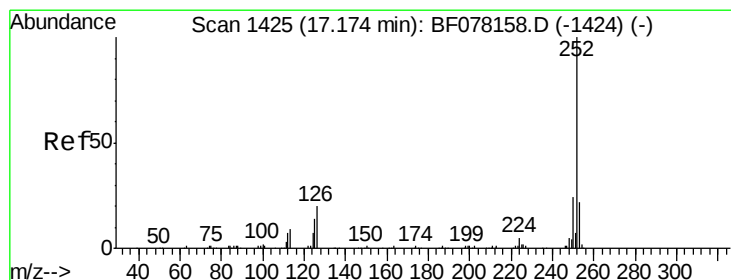
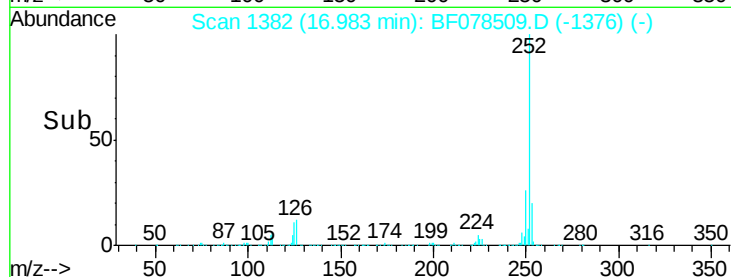
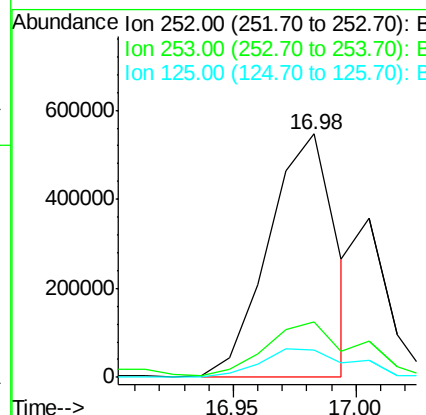
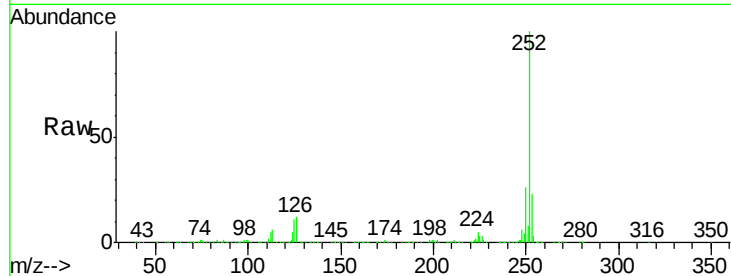




#87
Benzo(b)fluoranthene
Concen: 143.09 ng m
RT: 16.98 min Scan# 1382
Delta R.T. -0.03 min
Lab File: BF078509.D
Acq: 14 Apr 2015 19:59

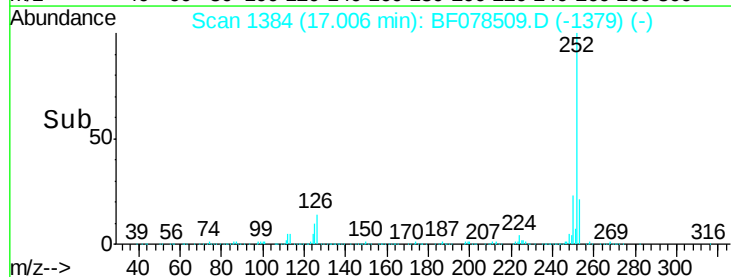
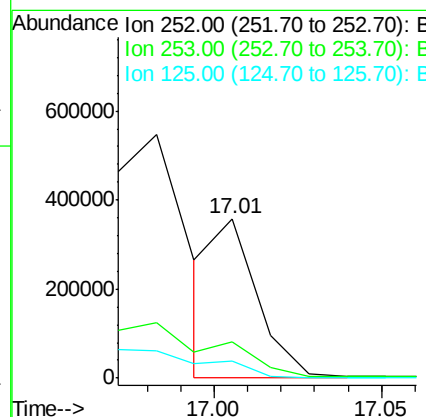
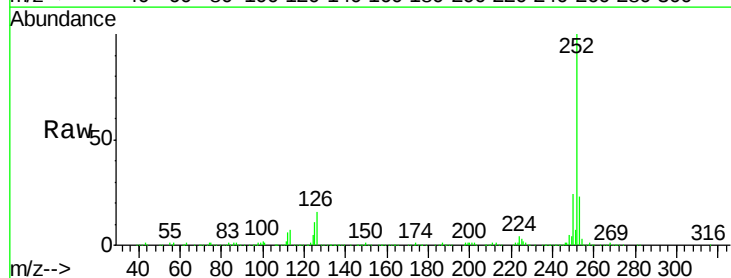
Instrument :
BNA_F
ClientSampleId :
HS-SB03A

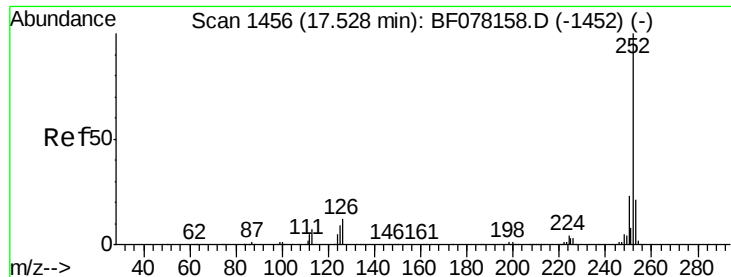
Tgt Ion:252 Resp: 1048879
Ion Ratio Lower Upper
252 100
253 23.0 17.2 25.8
125 11.1 7.0 10.4#



#88
Benzo(k)fluoranthene
Concen: 49.07 ng m
RT: 17.01 min Scan# 1384
Delta R.T. -0.05 min
Lab File: BF078509.D
Acq: 14 Apr 2015 19:59

Tgt Ion:252 Resp: 319616
Ion Ratio Lower Upper
252 100
253 23.1 17.5 26.3
125 11.0 11.6 17.4#





#89

Benzo(a)pyrene

Concen: 114.58 ng

RT: 17.37 min Scan# 1416

Delta R.T. -0.05 min

Lab File: BF078509.D

Acq: 14 Apr 2015 19:59

Instrument :

BNA_F

ClientSampleId :

HS-SB03A

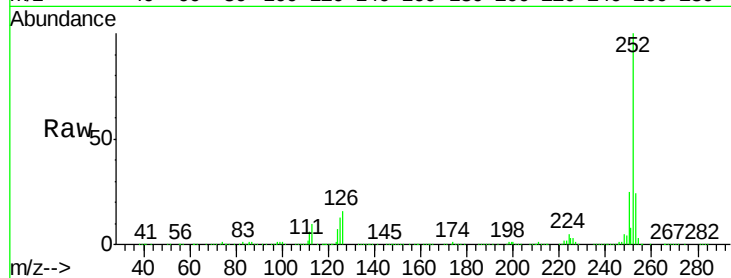
Tgt Ion:252 Resp: 732990

Ion Ratio Lower Upper

252 100

253 23.6 16.8 25.2

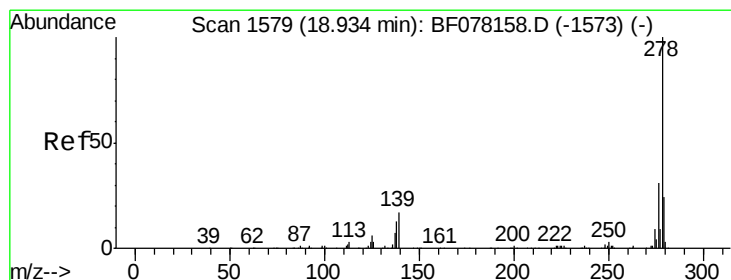
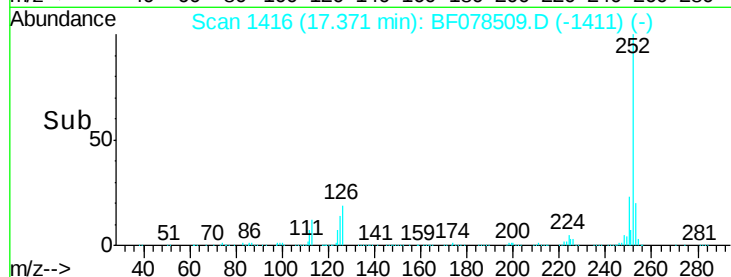
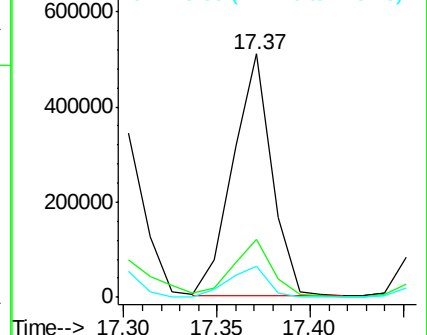
125 12.8 7.4 11.0#



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: 14.53 ng m

RT: 18.73 min Scan# 1535

Delta R.T. -0.10 min

Lab File: BF078509.D

Acq: 14 Apr 2015 19:59

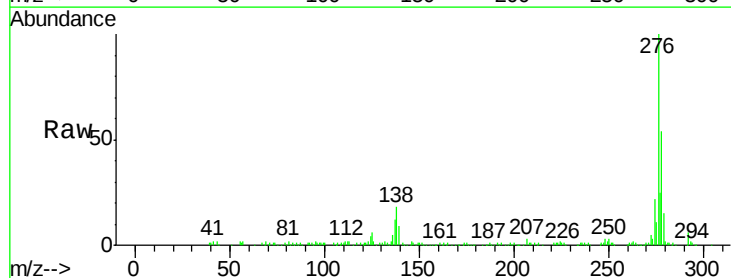
Tgt Ion:278 Resp: 93038

Ion Ratio Lower Upper

278 100

139 17.3 13.6 20.4

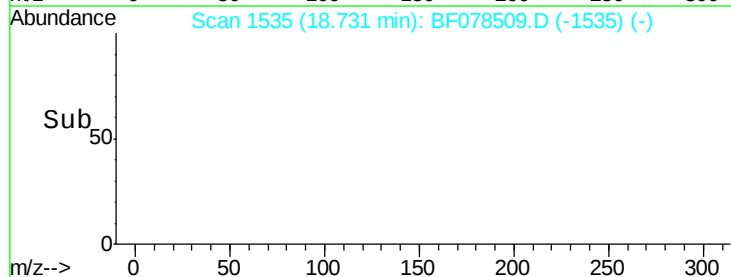
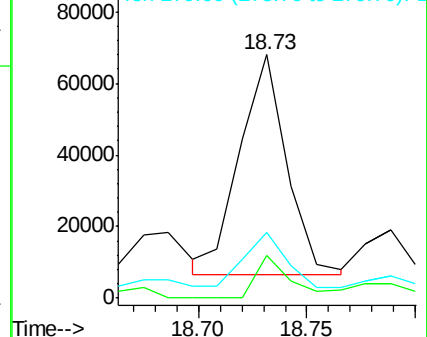
279 27.1 19.0 28.6

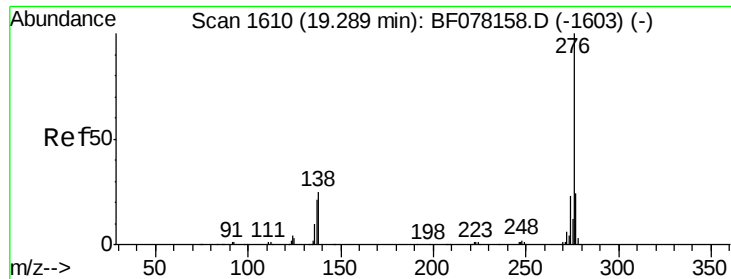


Abundance Ion 278.00 (277.70 to 278.70): E

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: 81.49 ng

RT: 19.07 min Scan# 1565

Delta R.T. -0.08 min

Lab File: BF078509.D

Acq: 14 Apr 2015 19:59

Instrument :

BNA_F

ClientSampleId :

HS-SB03A

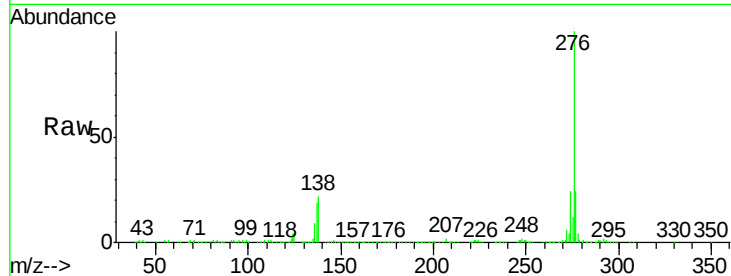
Tgt Ion: 276 Resp: 523277

Ion Ratio Lower Upper

276 100

277 24.0 19.0 28.4

138 21.9 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

