

Data Path : Z:\HPCHEM1\BNA F\DATA\BF042315\
 Data File : BF078754.D
 Acq On : 23 Apr 2015 18:02
 Operator : TP/IZ
 Sample : G1991-01
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-77S

Quant Time: Apr 24 01:31:58 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Apr 24 00:49:54 2015
 Response via : Initial Calibration

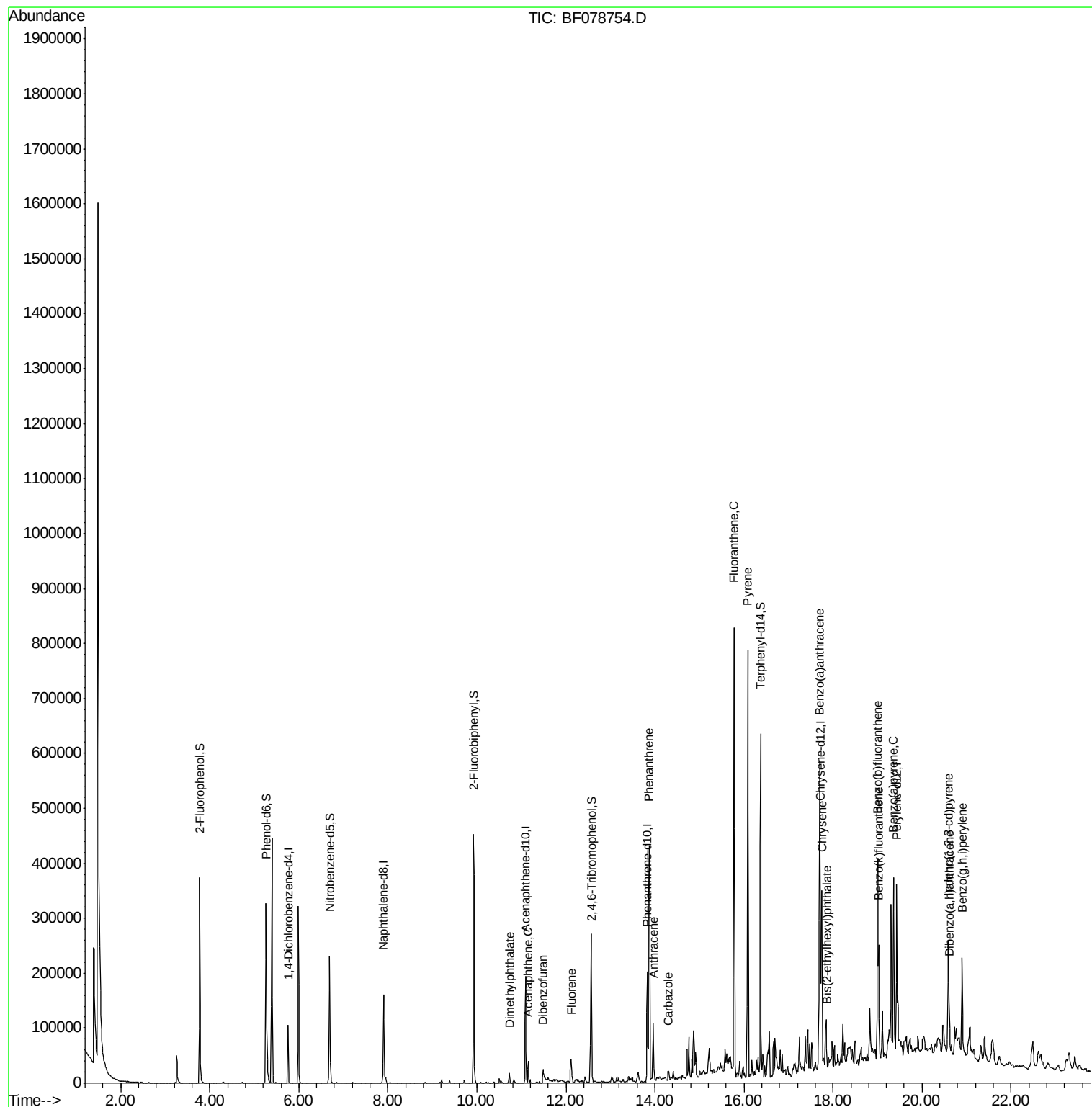
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	5.76	152	26691	20.00	ng	0.01
21) Naphthalene-d8	7.91	136	111261	20.00	ng	0.00
38) Acenaphthene-d10	11.10	164	57607	20.00	ng	0.00
63) Phenanthrene-d10	13.83	188	115508	20.00	ng	0.00
75) Chrysene-d12	17.71	240	128203	20.00	ng	0.00
86) Perylene-d12	19.43	264	132036	20.00	ng	-0.07
System Monitoring Compounds						
5) 2-Fluorophenol	3.77	112	140976	87.08	ng	0.00
7) Phenol-d6	5.27	99	186653	92.00	ng	0.01
23) Nitrobenzene-d5	6.70	82	111804	60.91	ng	0.00
41) 2,4,6-Tribromophenol	12.57	330	47753	99.95	ng	0.00
44) 2-Fluorobiphenyl	9.92	172	234103	58.09	ng	-0.01
78) Terphenyl-d14	16.38	244	267749	47.19	ng	0.00
Target Compounds						Qvalue
49) Dimethylphthalate	10.73	163	12956	2.99	ng	99
51) Acenaphthene	11.15	154	13699	4.06	ng	99
54) Dibenzofuran	11.48	168	11179	2.17	ng	95
57) Fluorene	12.11	166	17584	4.21	ng	95
70) Phenanthrene	13.87	178	260383	38.97	ng	99
71) Anthracene	13.97	178	68188	10.36	ng	99
72) Carbazole	14.31	167	13670	2.22	ng	100
74) Fluoranthene	15.77	202	406837	57.74	ng	96
77) Pyrene	16.08	202	375388	46.64	ng	# 94
80) Benzo(a)anthracene	17.70	228	216674	28.41	ng	98
82) Chrysene	17.75	228	153978	21.49	ng	97
83) Bis(2-ethylhexyl)phthalate	17.85	149	13953	2.90	ng	# 93
85) Indeno(1,2,3-cd)pyrene	20.59	276	117329m	14.43	ng	
87) Benzo(b)fluoranthene	19.01	252	237724m	29.13	ng	
88) Benzo(k)fluoranthene	19.03	252	77484m	10.68	ng	
89) Benzo(a)pyrene	19.36	252	177026	24.86	ng	# 93
90) Dibenzo(a,h)anthracene	20.61	278	26337m	3.69	ng	
91) Benzo(g,h,i)perylene	20.90	276	116244m	16.26	ng	

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 5.76 min Scan# 400

Delta R.T. 0.01 min

Lab File: BF078754.D

Acq: 23 Apr 2015 18:02

Instrument :

BNA_F

ClientSampleId :

SB-77S

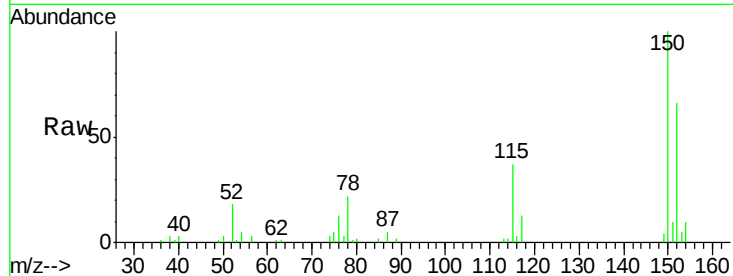
Tot Ion:152 Resp: 26691

Ion Ratio Lower Upper

152 100

150 152.3 125.9 188.9

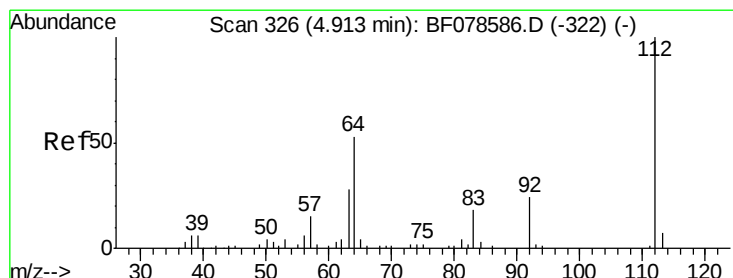
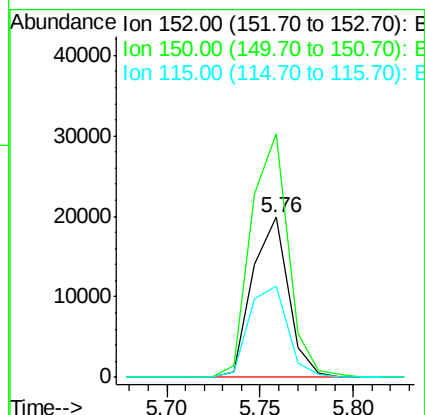
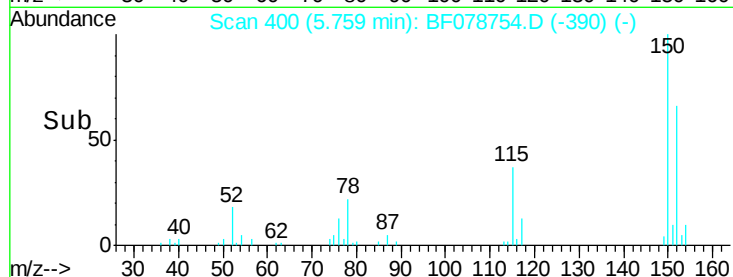
115 56.7 52.7 79.1



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: 87.08 ng

RT: 3.77 min Scan# 226

Delta R.T. -0.00 min

Lab File: BF078754.D

Acq: 23 Apr 2015 18:02

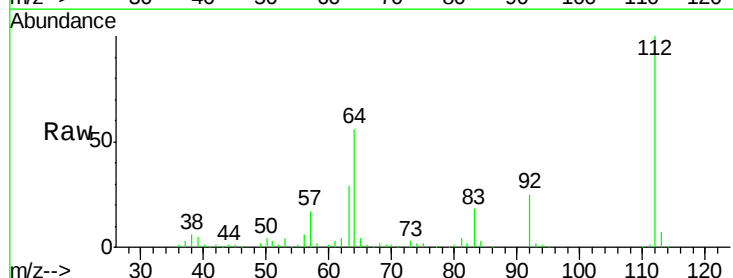
Tgt Ion:112 Resp: 140976

Ion Ratio Lower Upper

112 100

64 56.0 39.9 59.9

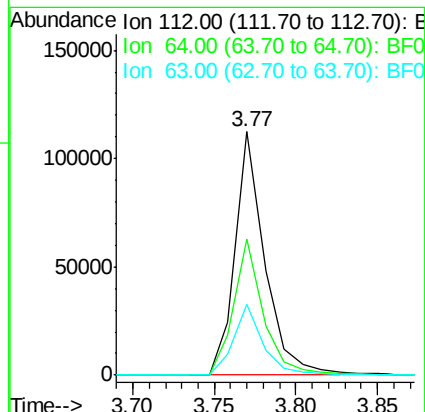
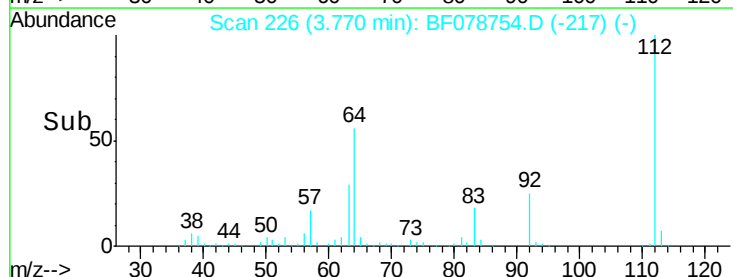
63 29.2 20.2 30.4



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: 92.00 ng

RT: 5.27 min Scan# 357

Delta R.T. 0.01 min

Lab File: BF078754.D

Acq: 23 Apr 2015 18:02

Instrument :

BNA_F

ClientSampleId :

SB-77S

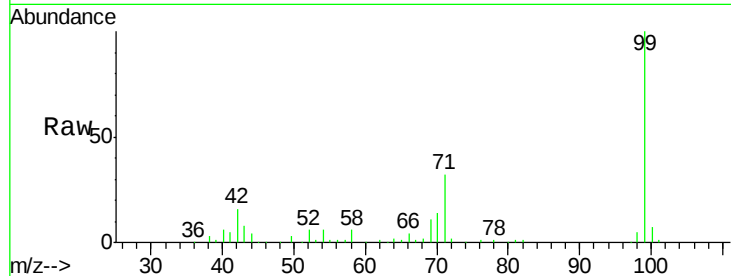
Tot Ion: 99 Resp: 186653

Ion Ratio Lower Upper

99 100

42 15.6 14.8 22.2

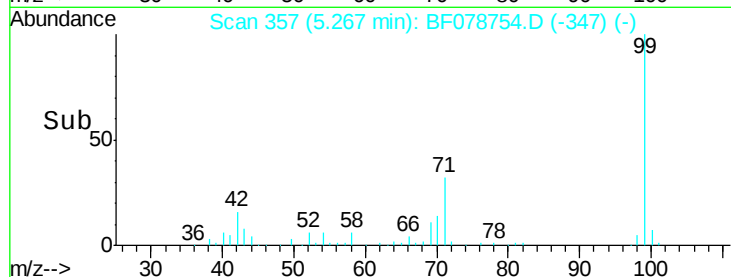
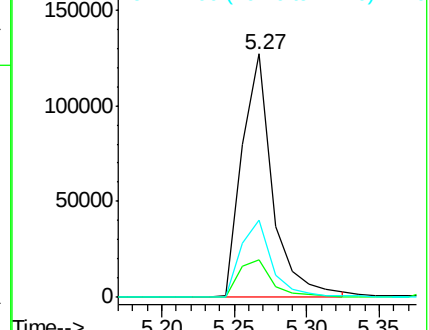
71 31.8 26.6 39.8



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 7.91 min Scan# 588

Delta R.T. -0.00 min

Lab File: BF078754.D

Acq: 23 Apr 2015 18:02

Tgt Ion:136 Resp: 111261

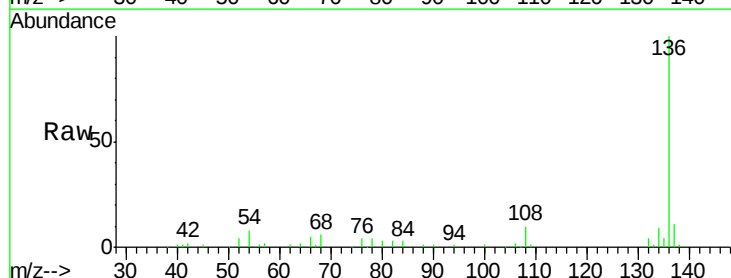
Ion Ratio Lower Upper

136 100

137 11.2 9.0 13.4

54 7.9 7.0 10.6

68 5.7 5.4 8.2

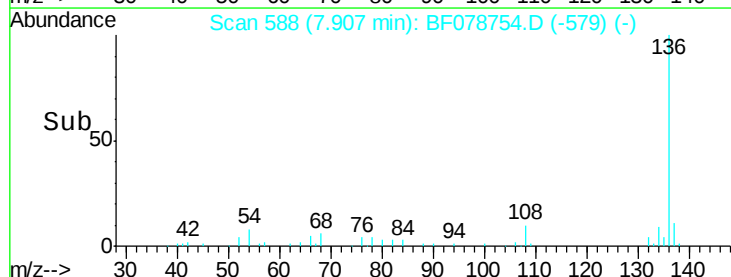
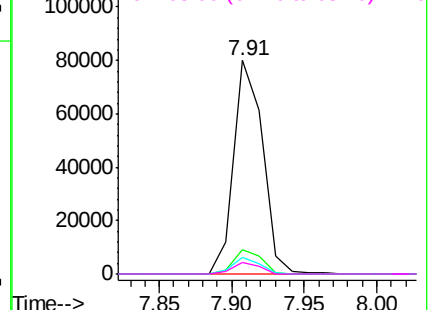


Abundance Ion 136.00 (135.70 to 136.70): E

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

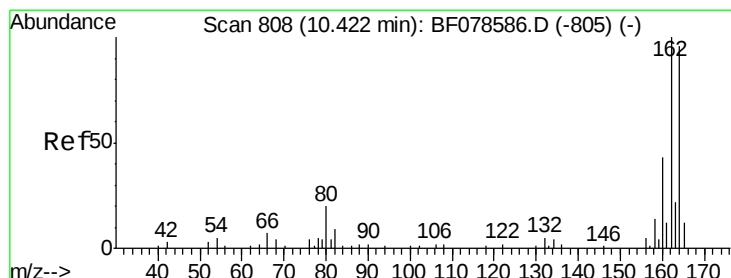
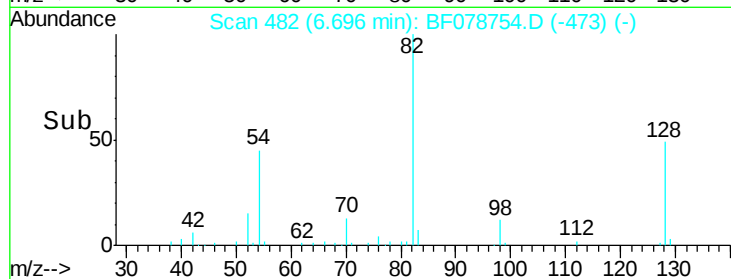
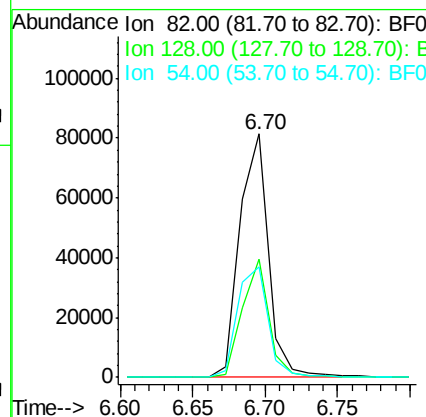
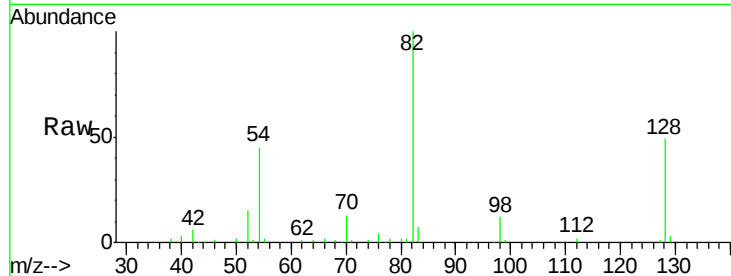




#23
 Nitrobenzene-d5
 Concen: 60.91 ng
 RT: 6.70 min Scan# 482
 Delta R.T. -0.00 min
 Lab File: BF078754.D
 Acq: 23 Apr 2015 18:02

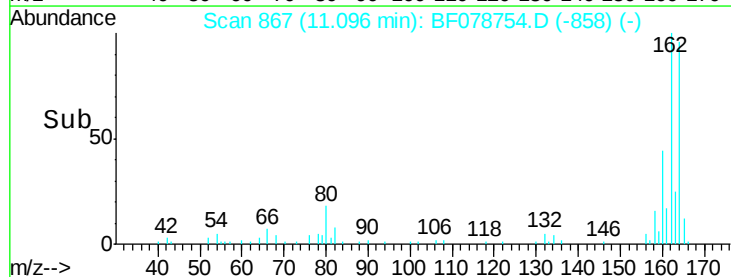
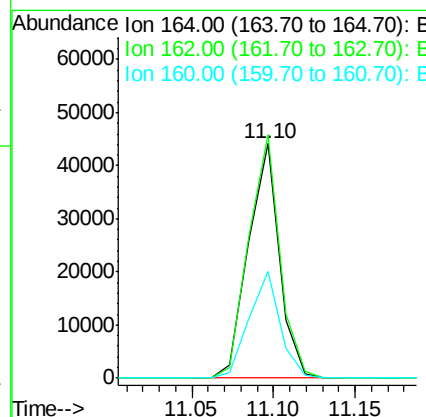
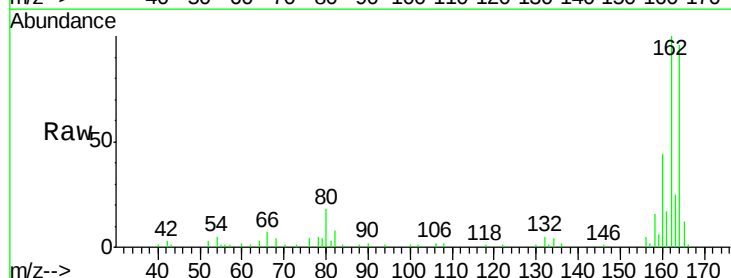
Instrument :
 BNA_F
 ClientSampled :
 SB-77S

Tot Ion	82	Resp	111804
Ion Ratio	Lower	Upper	
82	100		
128	48.7	31.8	47.8#
54	45.4	41.5	62.3



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 11.10 min Scan# 867
 Delta R.T. -0.00 min
 Lab File: BF078754.D
 Acq: 23 Apr 2015 18:02

Tgt Ion	164	Resp	57607
Ion Ratio	Lower	Upper	
164	100		
162	104.0	82.2	123.2
160	45.6	34.7	52.1

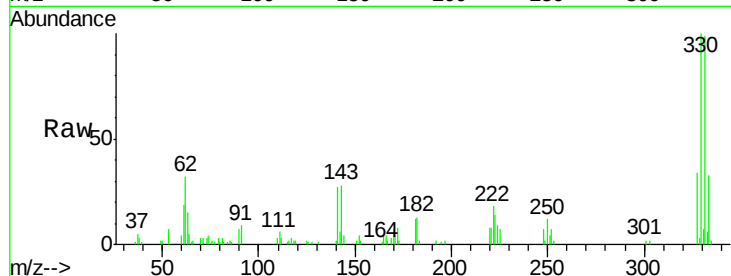




#41
 2,4,6-Tribromophenol
 Concen: 99.95 ng
 RT: 12.57 min Scan# 996
 Delta R.T. -0.00 min
 Lab File: BF078754.D
 Acq: 23 Apr 2015 18:02

Instrument :
 BNA_F
 ClientSampleId :
 SB-77S

Tot Ion	Ratio	Lower	Upper
330	100		
332	95.9	78.6	117.8
141	40.5	31.2	46.8

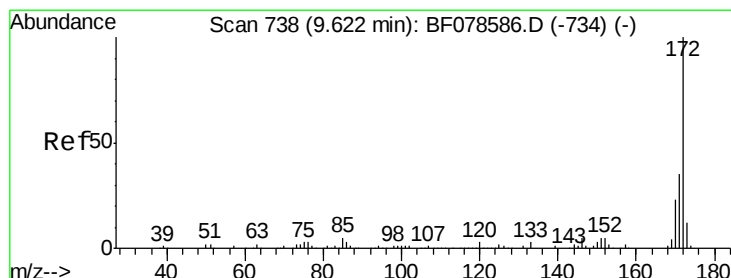
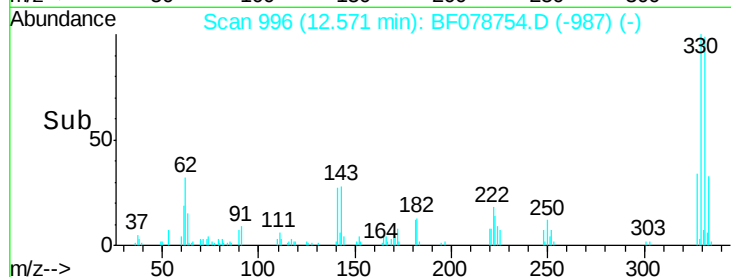
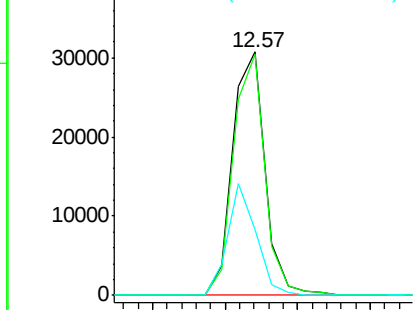


Abundance

Ion 329.80 (329.50 to 330.50): E

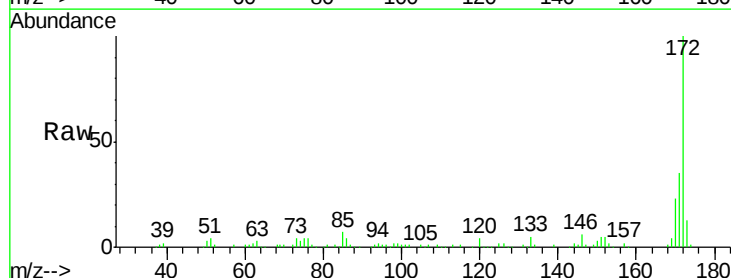
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#44
 2-Fluorobiphenyl
 Concen: 58.09 ng
 RT: 9.92 min Scan# 764
 Delta R.T. -0.01 min
 Lab File: BF078754.D
 Acq: 23 Apr 2015 18:02

Tgt Ion	Ratio	Lower	Upper
172	100		
171	34.6	28.6	42.8
170	23.2	18.5	27.7

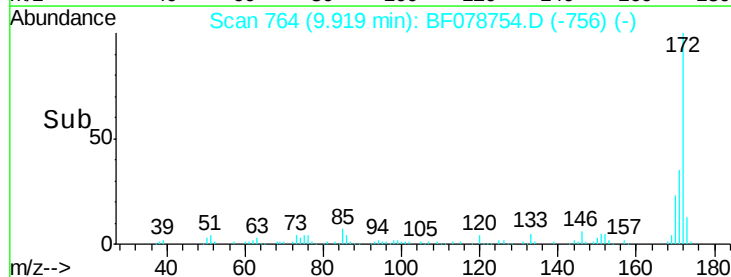
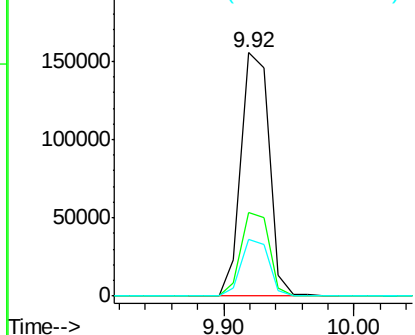


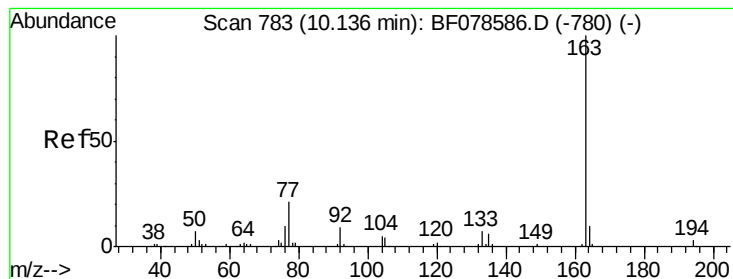
Abundance

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





#49

Dimethylphthalate

Concen: 2.99 ng

RT: 10.73 min Scan# 835

Delta R.T. -0.01 min

Lab File: BF078754.D

Acq: 23 Apr 2015 18:02

Instrument :

BNA_F

ClientSampleId :

SB-77S

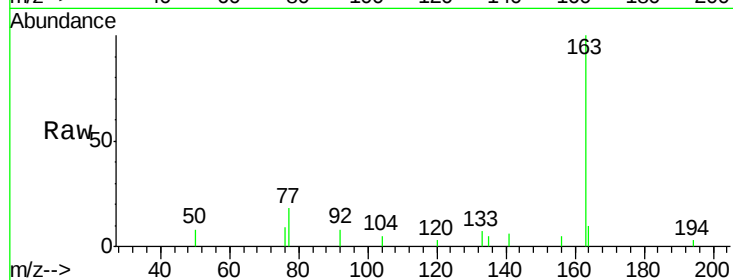
Tot Ion:163 Resp: 12956

Ion Ratio Lower Upper

163 100

194 3.2 2.3 3.5

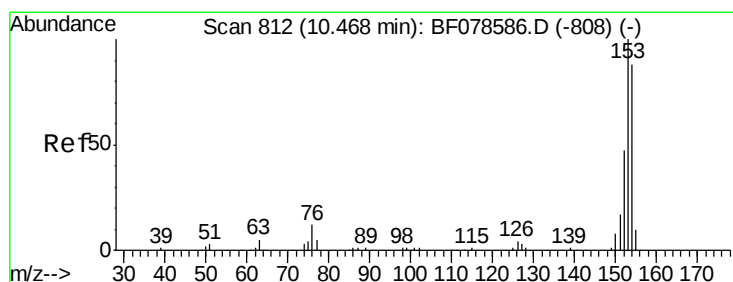
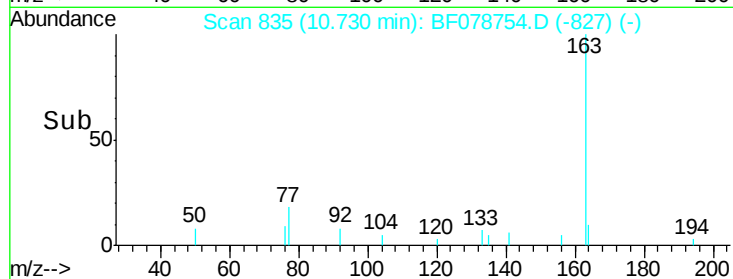
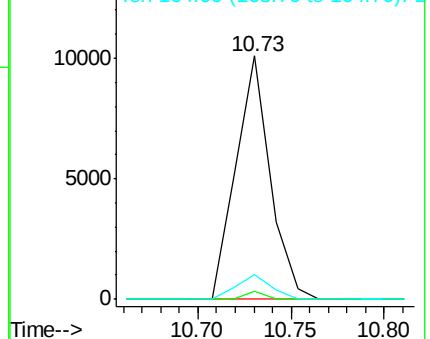
164 10.2 8.6 13.0



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: 4.06 ng

RT: 11.15 min Scan# 872

Delta R.T. -0.00 min

Lab File: BF078754.D

Acq: 23 Apr 2015 18:02

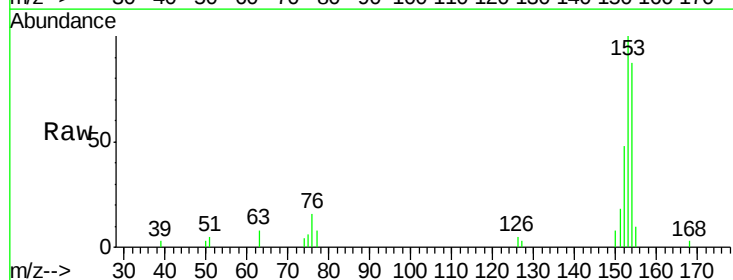
Tgt Ion:154 Resp: 13699

Ion Ratio Lower Upper

154 100

153 114.7 91.4 137.2

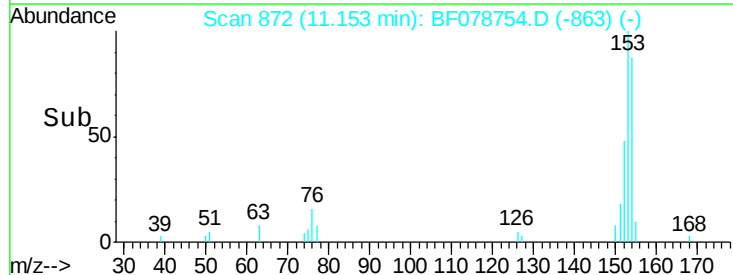
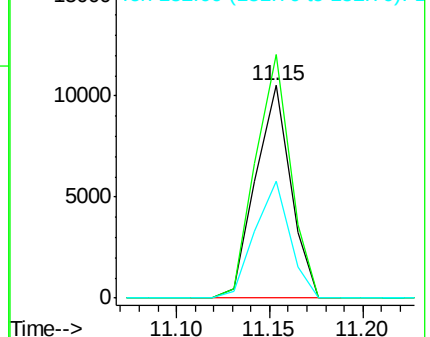
152 55.2 43.0 64.6

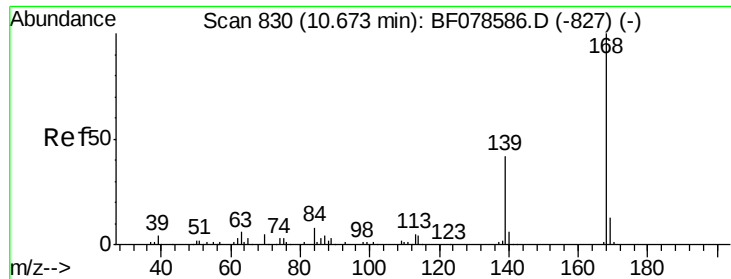


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

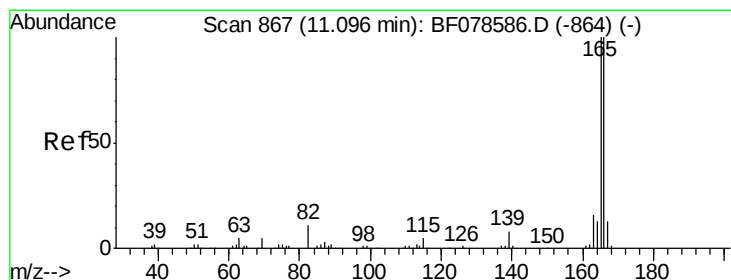
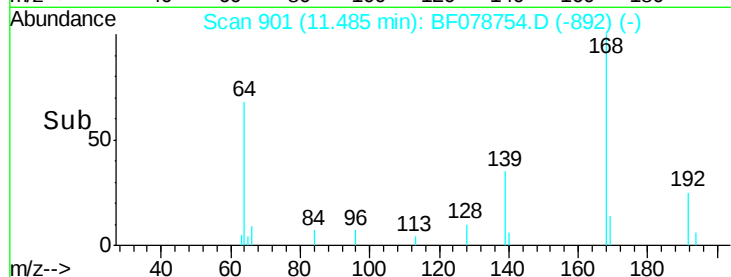
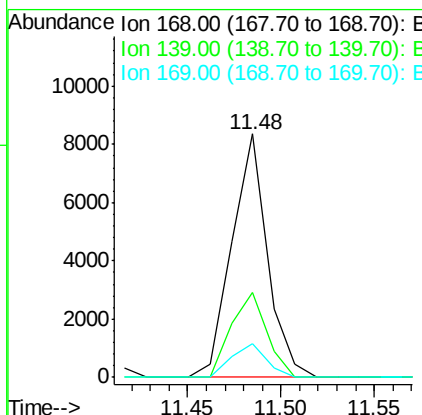
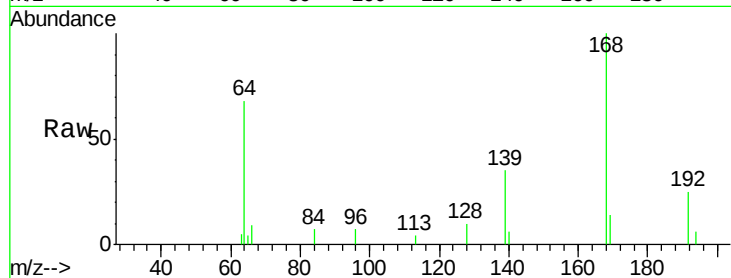




#54
Dibenzenofuran
Concen: 2.17 ng
RT: 11.48 min Scan# 901
Delta R.T. -0.00 min
Lab File: BF078754.D
Acq: 23 Apr 2015 18:02

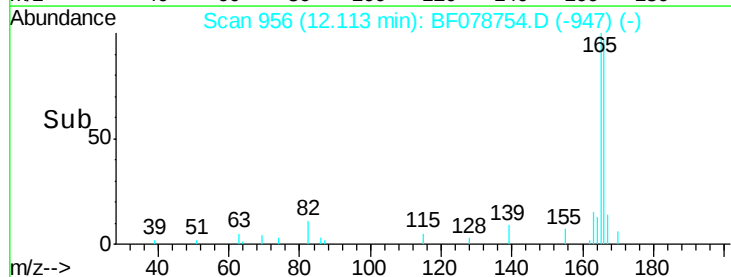
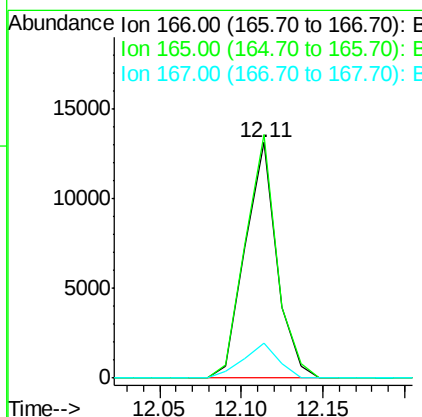
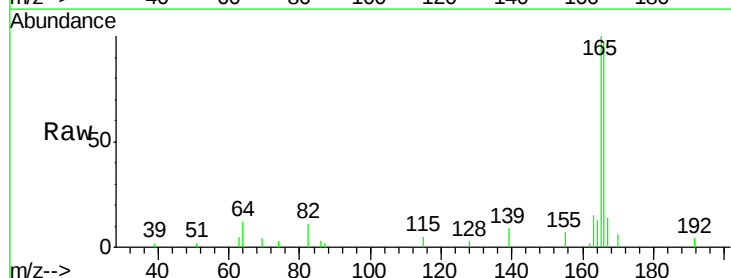
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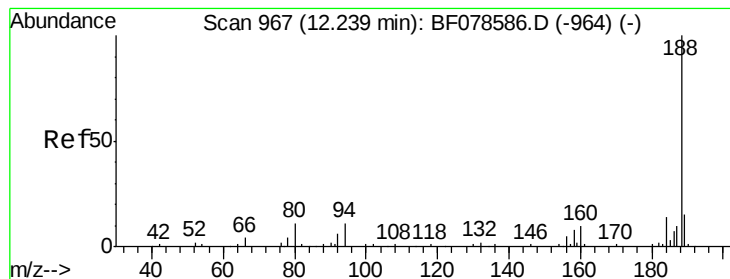
Tot Ion:168 Resp: 11179
Ion Ratio Lower Upper
168 100
139 35.1 31.0 46.4
169 13.8 10.7 16.1



#57
Fluorene
Concen: 4.21 ng
RT: 12.11 min Scan# 956
Delta R.T. -0.00 min
Lab File: BF078754.D
Acq: 23 Apr 2015 18:02

Tgt Ion:166 Resp: 17584
Ion Ratio Lower Upper
166 100
165 103.3 78.9 118.3
167 14.9 10.7 16.1





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 13.83 min Scan# 1106

Delta R.T. -0.00 min

Lab File: BF078754.D

Acq: 23 Apr 2015 18:02

Instrument :

BNA_F

ClientSampled :

SB-77S

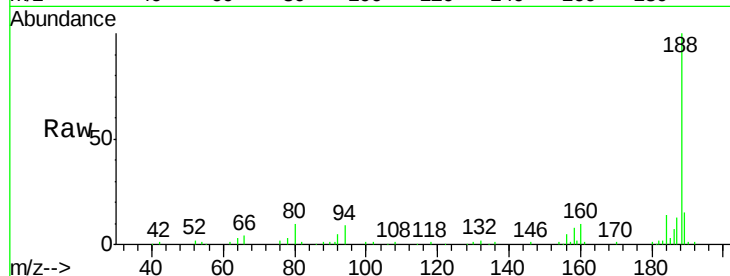
Tot Ion:188 Resp: 115508

Ion Ratio Lower Upper

188 100

94 9.1 9.0 13.4

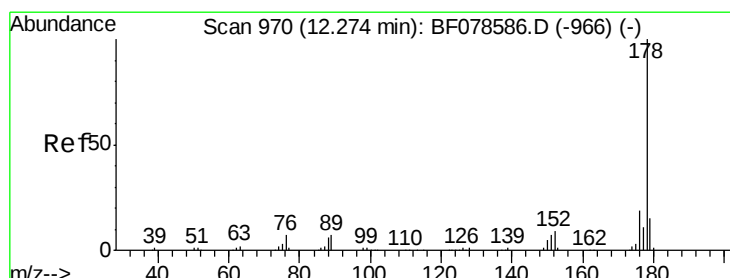
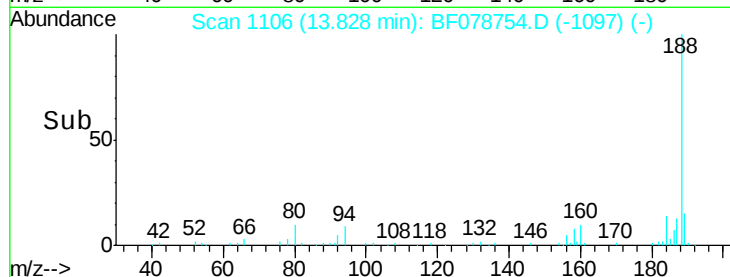
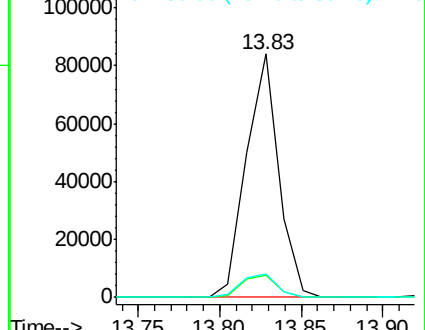
80 9.5 9.5 14.3



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: 38.97 ng

RT: 13.87 min Scan# 1110

Delta R.T. -0.00 min

Lab File: BF078754.D

Acq: 23 Apr 2015 18:02

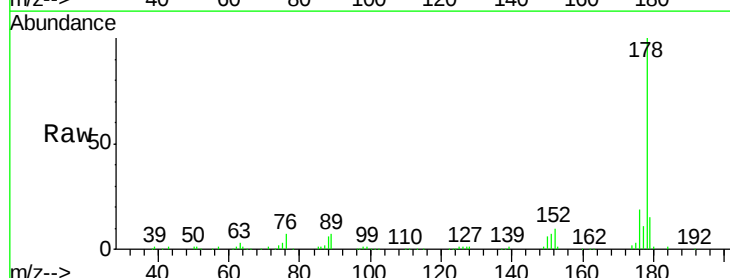
Tgt Ion:178 Resp: 260383

Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.0

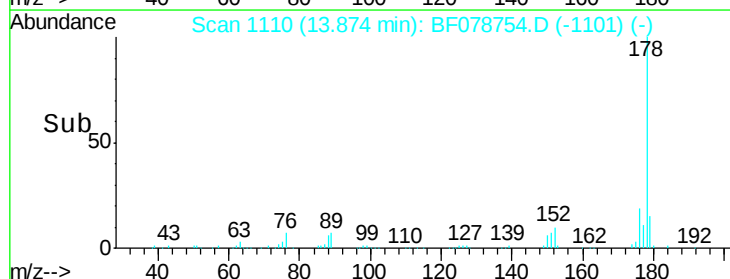
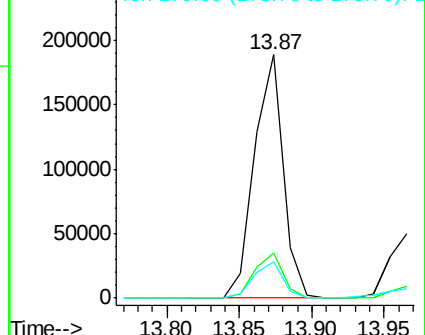
179 15.1 12.2 18.2

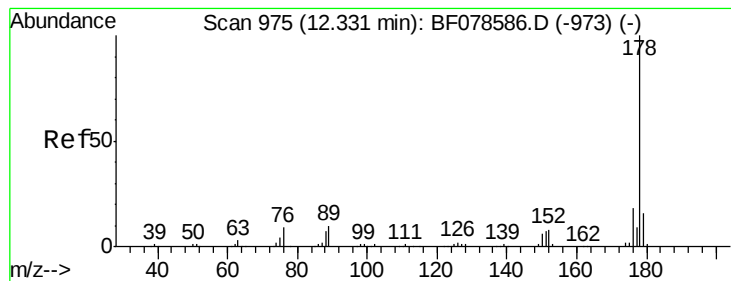


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 10.36 ng

RT: 13.97 min Scan# 1118

Delta R.T. -0.00 min

Lab File: BF078754.D

Acq: 23 Apr 2015 18:02

Instrument :

BNA_F

ClientSampled :

SB-77S

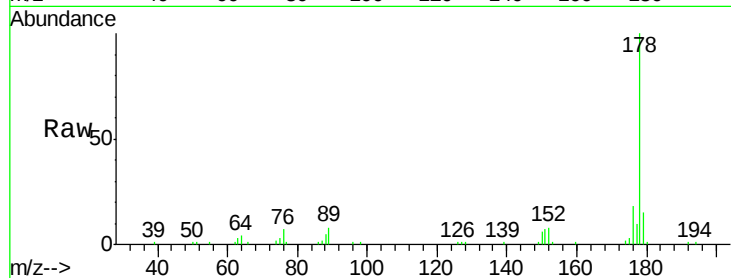
Tot Ion:178 Resp: 68188

Ion Ratio Lower Upper

178 100

176 18.0 14.8 22.2

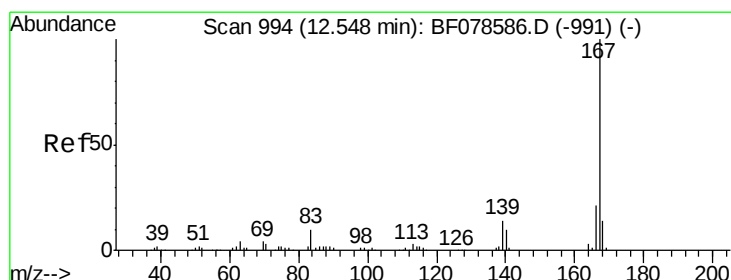
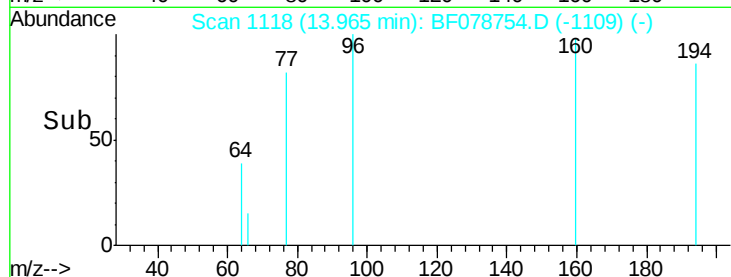
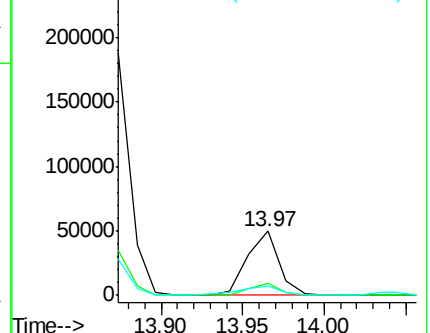
179 15.1 12.4 18.6



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: 2.22 ng

RT: 14.31 min Scan# 1148

Delta R.T. -0.00 min

Lab File: BF078754.D

Acq: 23 Apr 2015 18:02

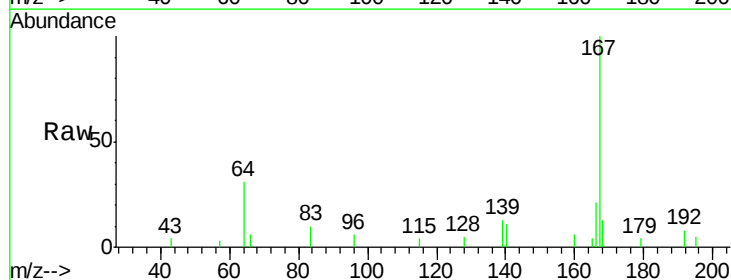
Tgt Ion:167 Resp: 13670

Ion Ratio Lower Upper

167 100

166 20.9 16.8 25.2

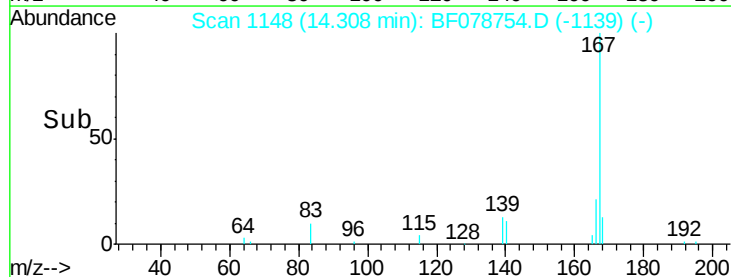
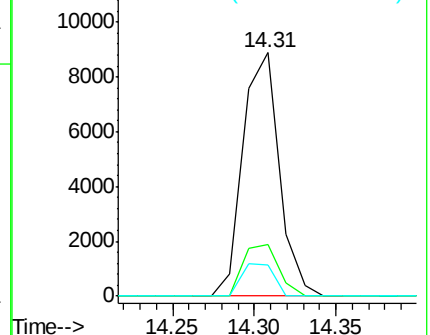
139 12.6 10.0 15.0

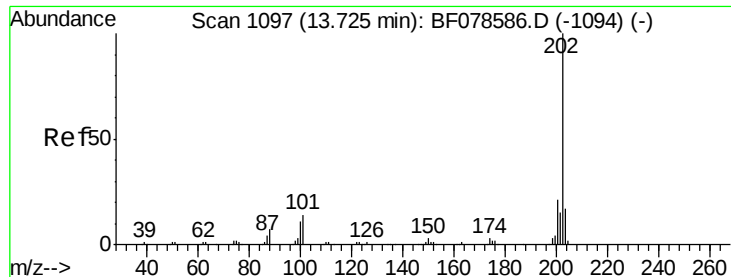


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#74

Fluoranthene

Concen: 57.74 ng

RT: 15.77 min Scan# 1276

Delta R.T. -0.00 min

Lab File: BF078754.D

Acq: 23 Apr 2015 18:02

Instrument :

BNA_F

ClientSampleId :

SB-77S

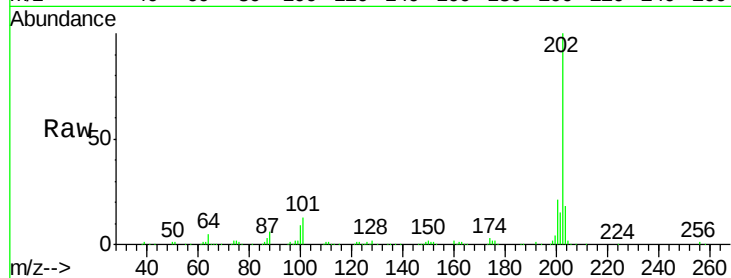
Tot Ion:202 Resp: 406837

Ion Ratio Lower Upper

202 100

101 12.8 0.0 35.2

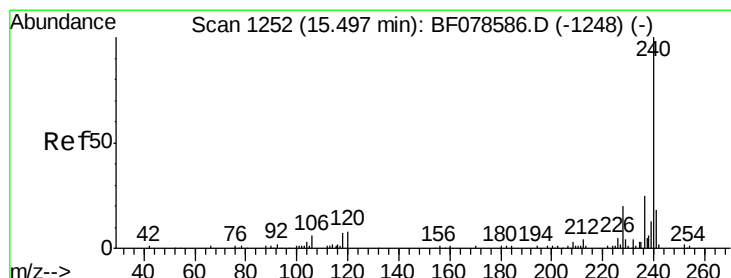
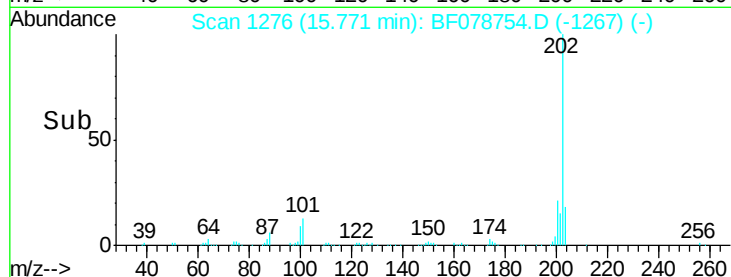
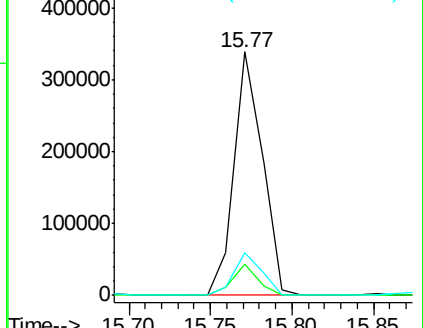
203 17.7 0.0 38.5



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: 17.71 min Scan# 1446

Delta R.T. -0.00 min

Lab File: BF078754.D

Acq: 23 Apr 2015 18:02

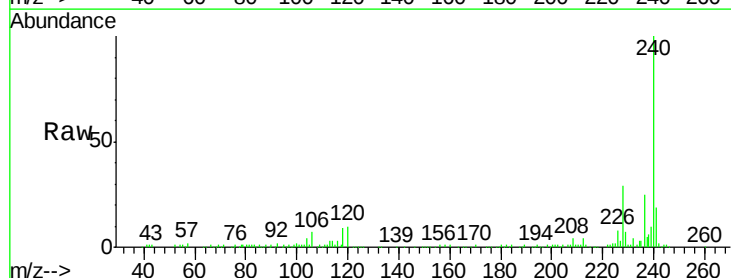
Tgt Ion:240 Resp: 128203

Ion Ratio Lower Upper

240 100

120 9.9 7.1 10.7

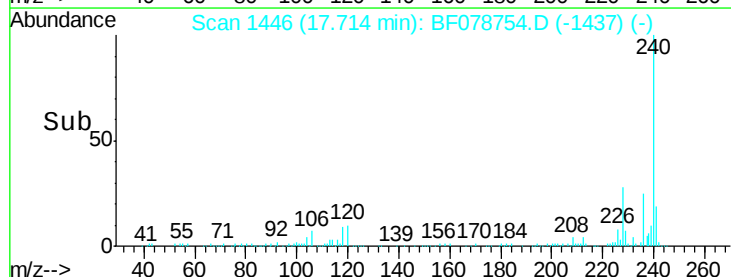
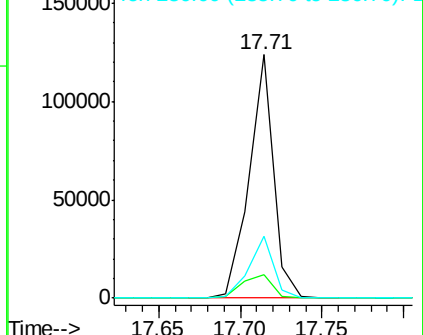
236 25.3 21.4 32.2

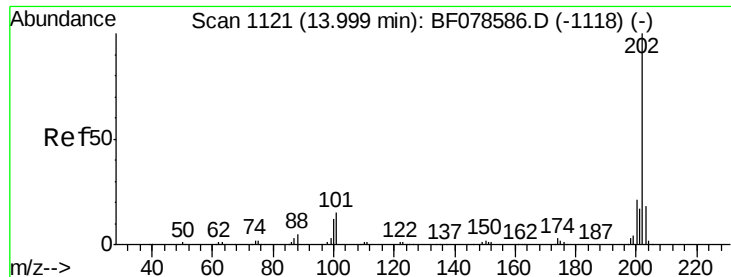


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 46.64 ng

RT: 16.08 min Scan# 1303

Delta R.T. -0.00 min

Lab File: BF078754.D

Acq: 23 Apr 2015 18:02

Instrument :

BNA_F

ClientSampleId :

SB-77S

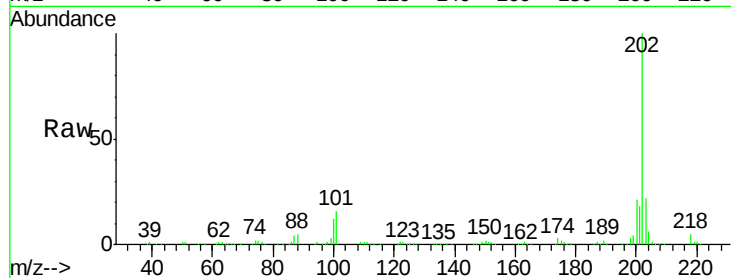
Tot Ion:202 Resp: 375388

Ion Ratio Lower Upper

202 100

200 21.4 16.3 24.5

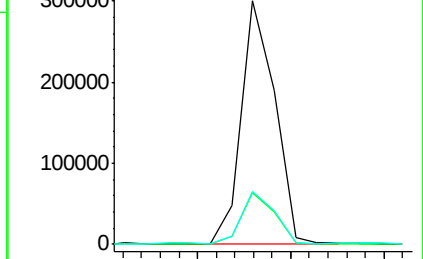
203 21.6 13.8 20.6#



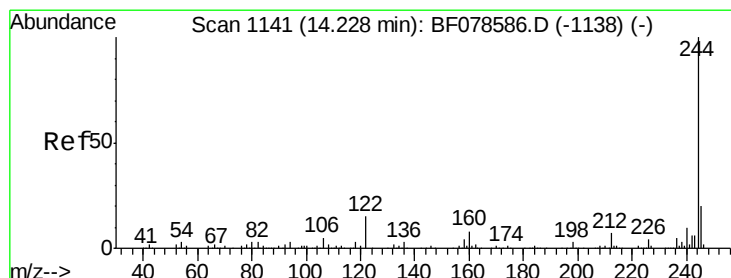
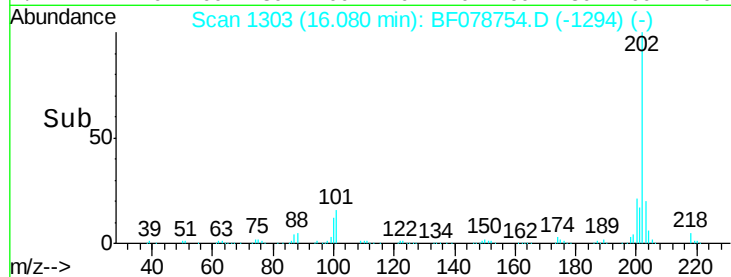
Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->



#78

Terphenyl-d14

Concen: 47.19 ng

RT: 16.38 min Scan# 1329

Delta R.T. -0.00 min

Lab File: BF078754.D

Acq: 23 Apr 2015 18:02

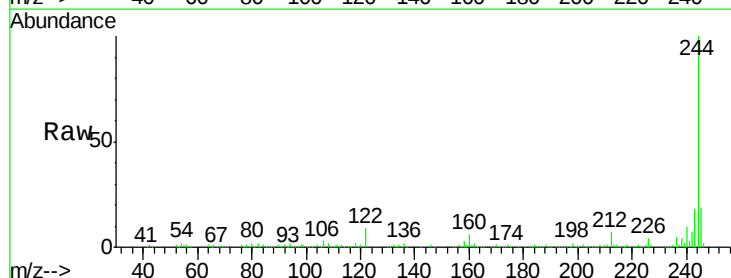
Tgt Ion:244 Resp: 267749

Ion Ratio Lower Upper

244 100

212 6.6 5.0 7.4

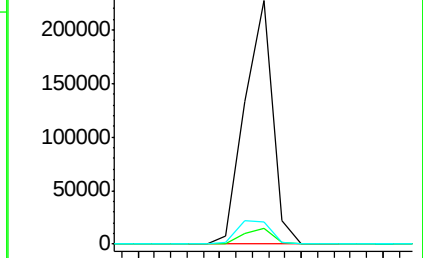
122 9.1 7.1 10.7



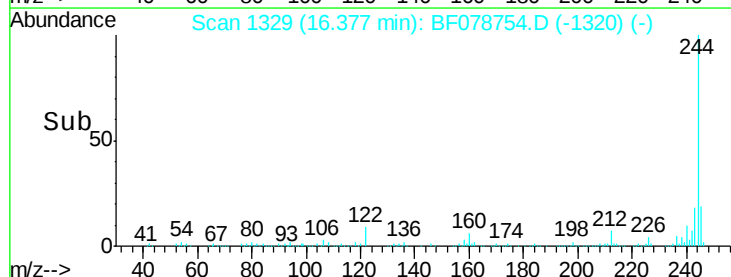
Abundance Ion 244.00 (243.70 to 244.70): E

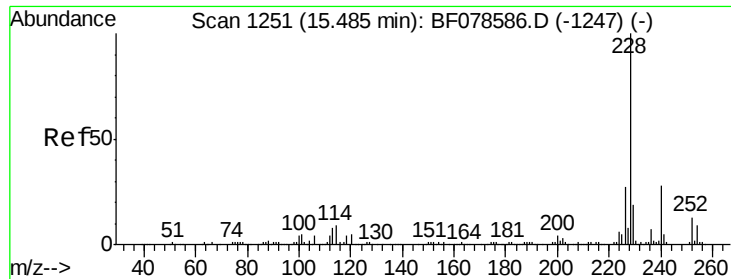
Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



Time-->





#80

Benzo(a)anthracene

Concen: 28.41 ng

RT: 17.70 min Scan# 1445

Delta R.T. -0.00 min

Lab File: BF078754.D

Acq: 23 Apr 2015 18:02

Instrument :

BNA_F

ClientSampleId :

SB-77S

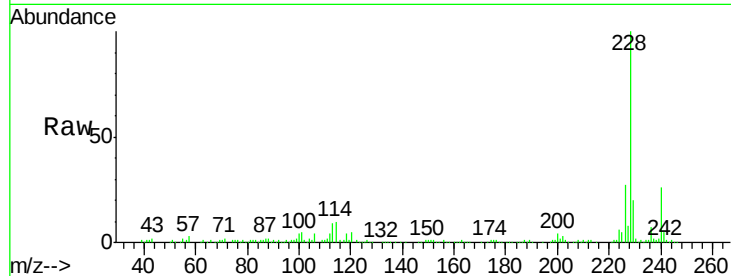
Tot Ion:228 Resp: 216674

Ion Ratio Lower Upper

228 100

226 27.2 21.3 31.9

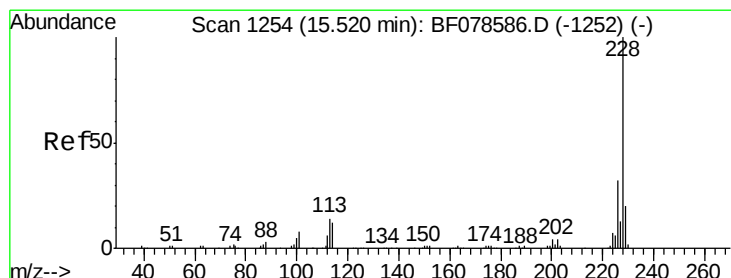
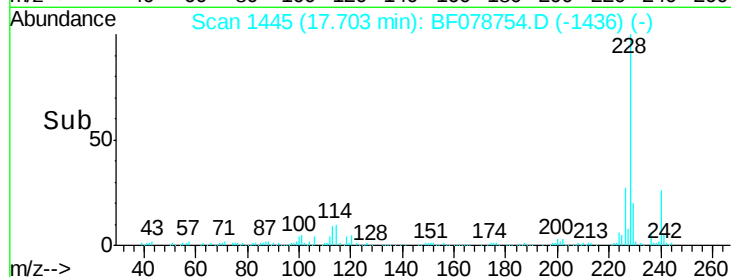
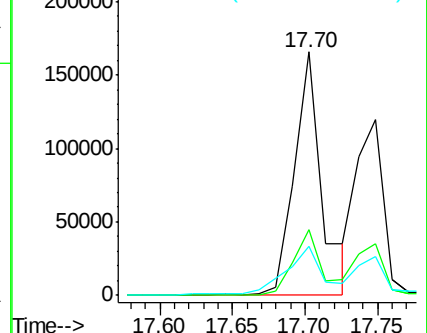
229 20.3 15.4 23.2



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: 21.49 ng

RT: 17.75 min Scan# 1449

Delta R.T. -0.00 min

Lab File: BF078754.D

Acq: 23 Apr 2015 18:02

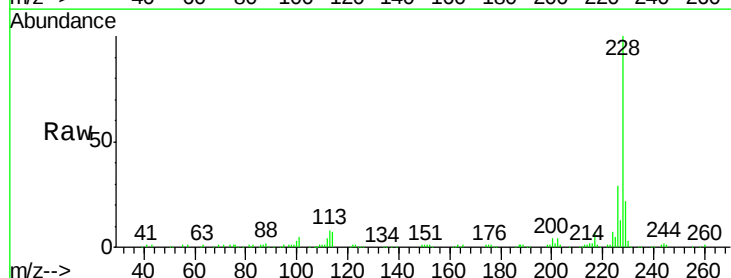
Tgt Ion:228 Resp: 153978

Ion Ratio Lower Upper

228 100

226 29.2 24.2 36.4

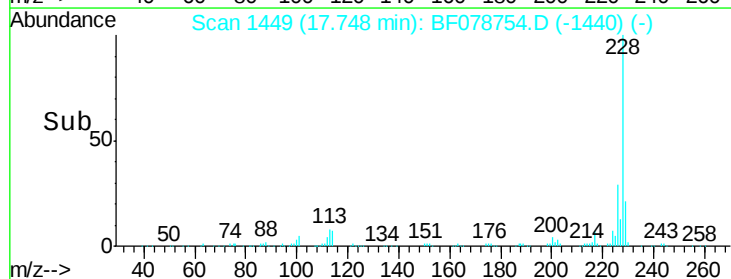
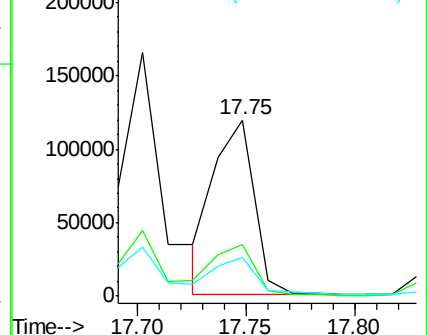
229 22.2 15.8 23.8

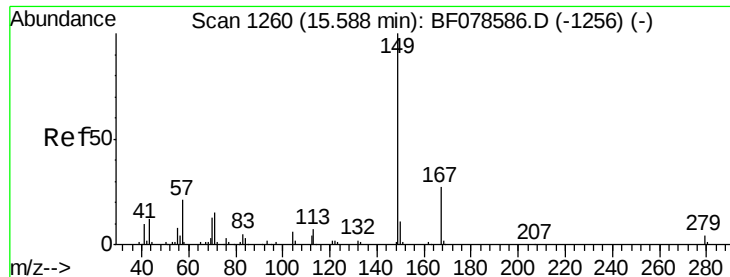


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

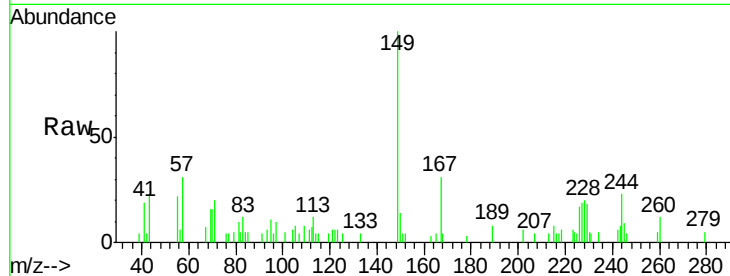




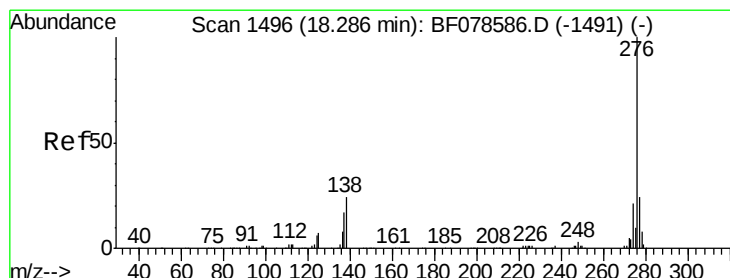
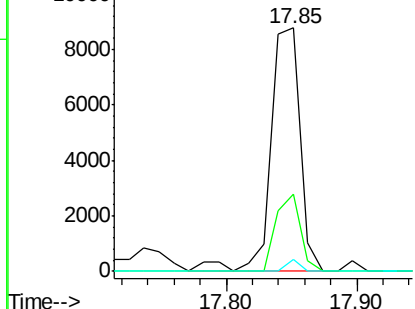
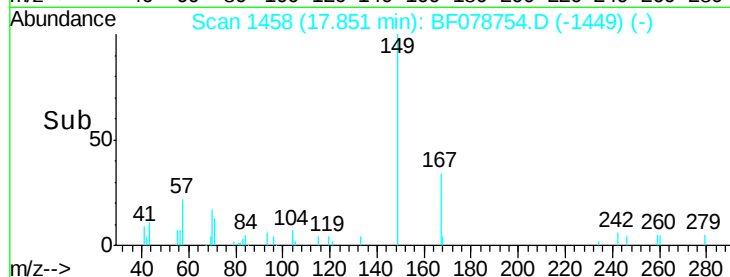
#83
 Bis(2-ethylhexyl)phthalate
 Concen: 2.90 ng
 RT: 17.85 min Scan# 1458
 Delta R.T. -0.00 min
 Lab File: BF078754.D
 Acq: 23 Apr 2015 18:02

Instrument :
 BNA_F
 ClientSampleId :
 SB-77S

Tot Ion:149 Resp: 13953
 Ion Ratio Lower Upper
 149 100
 167 31.5 22.2 33.2
 279 4.9 3.2 4.8#

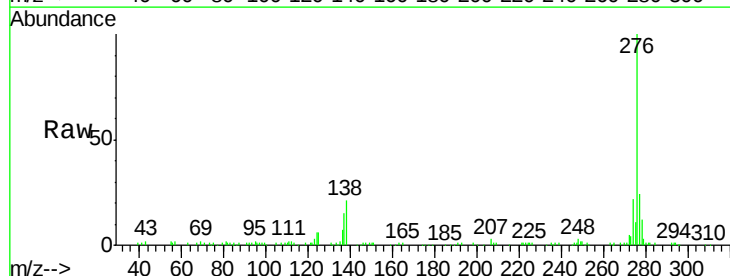


Abundance Ion 149.00 (148.70 to 149.70): E
 Ion 167.00 (166.70 to 167.70): E
 Ion 279.00 (278.70 to 279.70): E

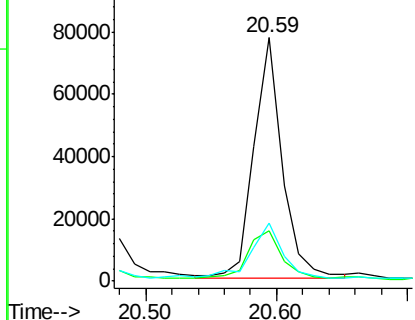
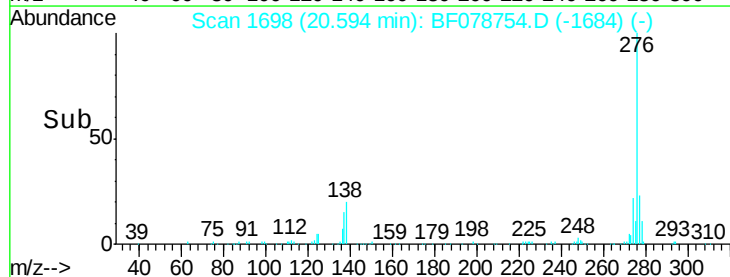


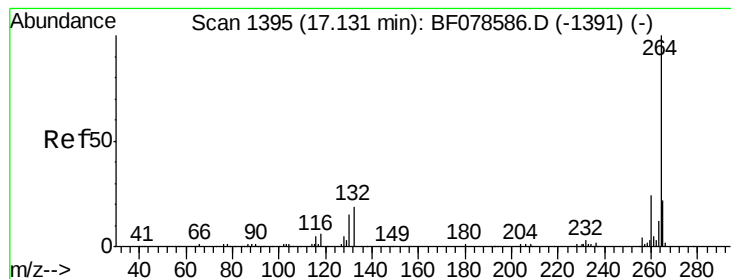
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 14.43 ng m
 RT: 20.59 min Scan# 1698
 Delta R.T. -0.14 min
 Lab File: BF078754.D
 Acq: 23 Apr 2015 18:02

Tgt Ion:276 Resp: 117329
 Ion Ratio Lower Upper
 276 100
 138 3.8 16.9 25.3#
 277 3.0 15.8 23.6#



Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.00 ng

RT: 19.43 min Scan# 1596

Delta R.T. -0.07 min

Lab File: BF078754.D

Acq: 23 Apr 2015 18:02

Instrument :

BNA_F

ClientSampled :

SB-77S

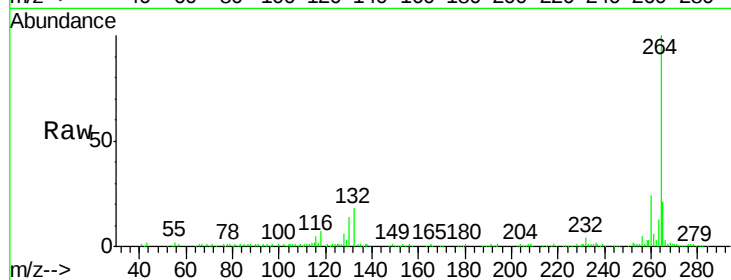
Tot Ion:264 Resp: 132036

Ion Ratio Lower Upper

264 100

260 24.4 18.6 27.8

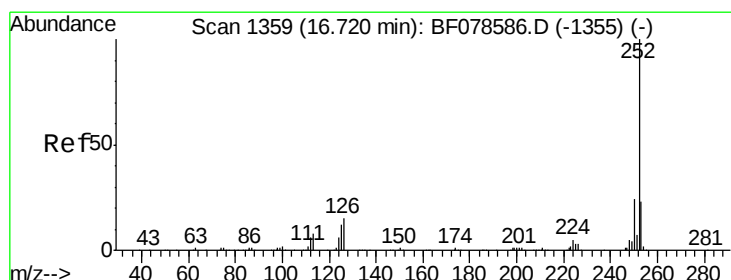
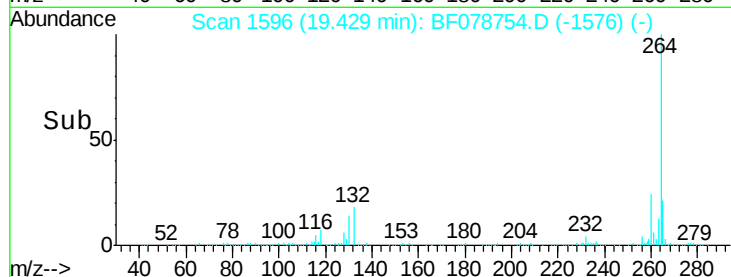
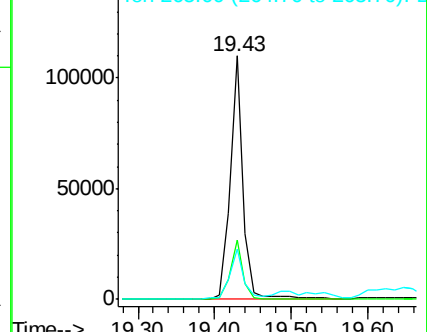
265 20.9 17.0 25.6



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: 29.13 ng m

RT: 19.01 min Scan# 1559

Delta R.T. -0.05 min

Lab File: BF078754.D

Acq: 23 Apr 2015 18:02

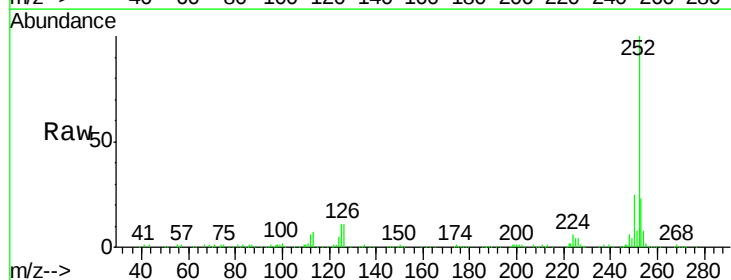
Tgt Ion:252 Resp: 237724

Ion Ratio Lower Upper

252 100

253 22.6 17.2 25.8

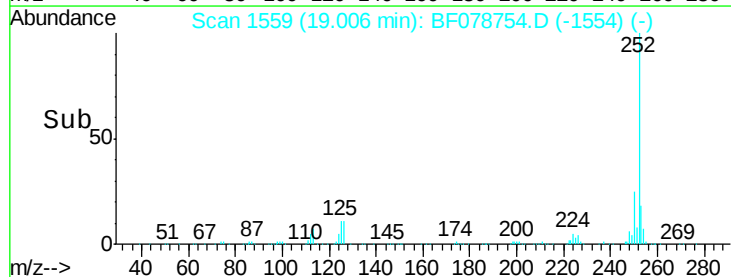
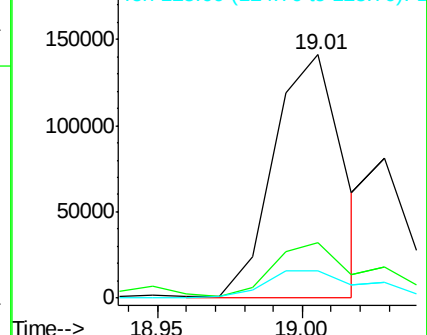
125 11.1 7.0 10.4#

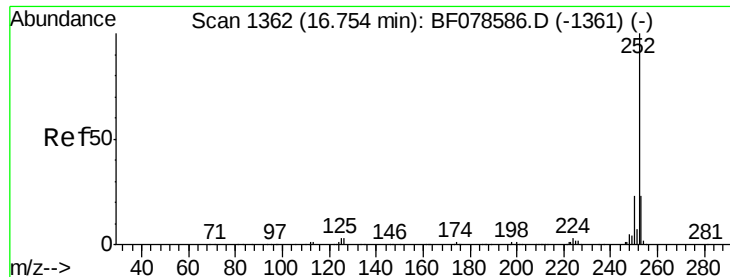


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

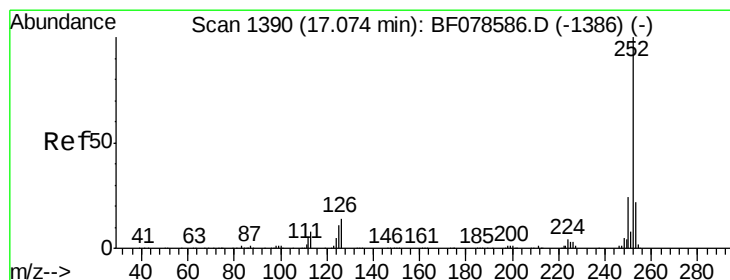
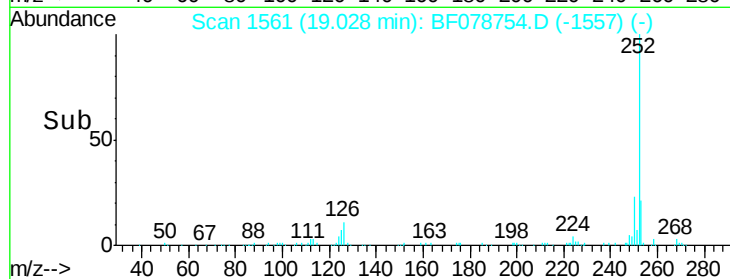
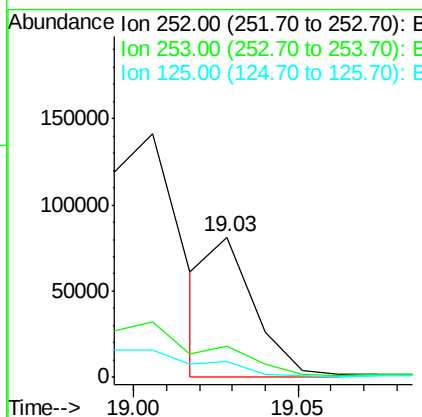
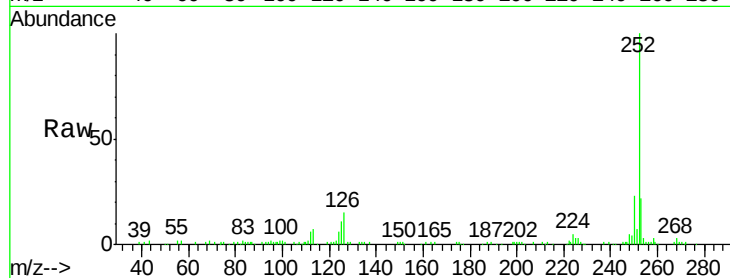




#88
Benzo(k)fluoranthene
Concen: 10.68 ng/mL
RT: 19.03 min Scan# 1561
Delta R.T. -0.06 min
Lab File: BF078754.D
Acq: 23 Apr 2015 18:02

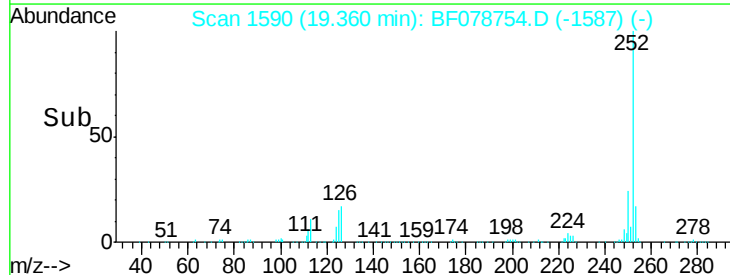
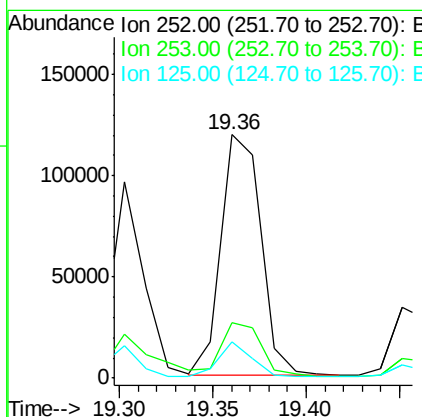
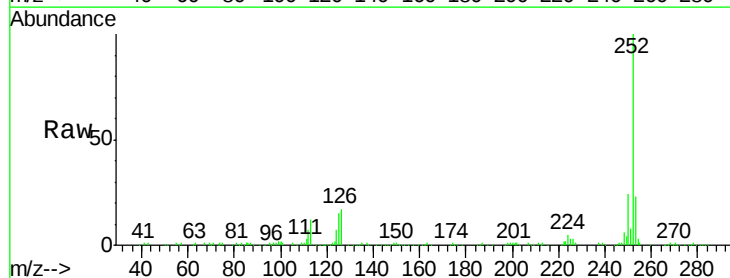
Instrument :
BNA_F
ClientSampleId :
SB-77S

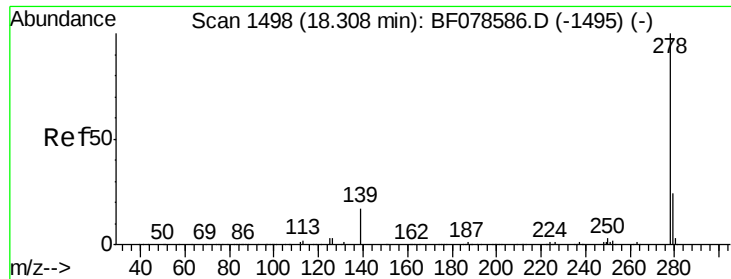
Tot Ion:252 Resp: 77484
Ion Ratio Lower Upper
252 100
253 22.4 17.5 26.3
125 10.9 11.6 17.4#



#89
Benzo(a)pyrene
Concen: 24.86 ng/mL
RT: 19.36 min Scan# 1590
Delta R.T. -0.07 min
Lab File: BF078754.D
Acq: 23 Apr 2015 18:02

Tgt Ion:252 Resp: 177026
Ion Ratio Lower Upper
252 100
253 22.9 16.8 25.2
125 14.7 7.4 11.0#





#90

Dibenzo(a,h)anthracene

Concen: 3.69 ng m

RT: 20.61 min Scan# 1699

Delta R.T. -0.15 min

Lab File: BF078754.D

Acq: 23 Apr 2015 18:02

Instrument :

BNA_F

ClientSampleId :

SB-77S

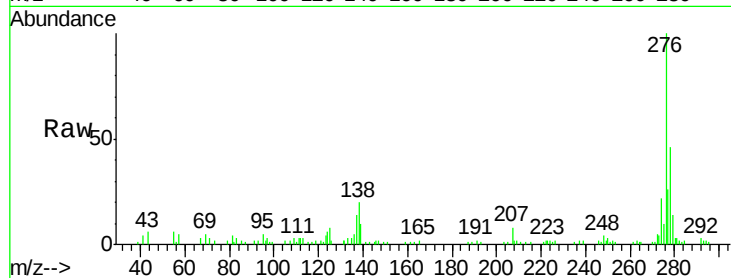
Tot Ion:278 Resp: 26337

Ion Ratio Lower Upper

278 100

139 22.3 13.6 20.4#

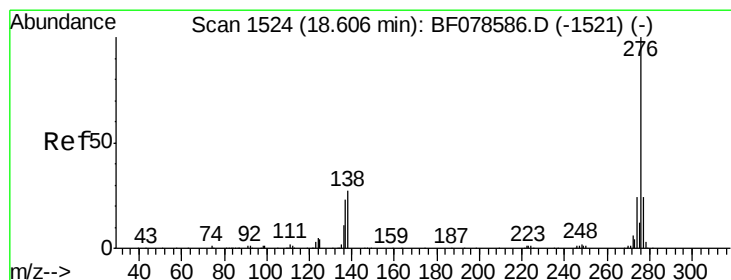
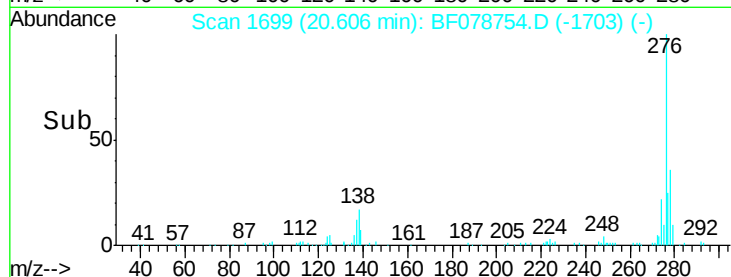
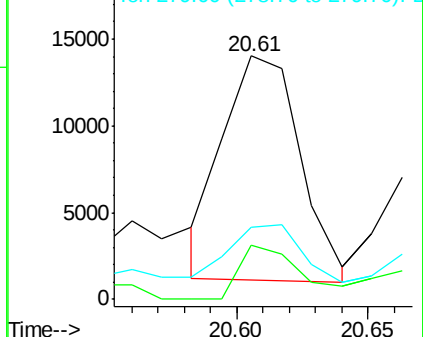
279 29.6 19.0 28.6#



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: 16.26 ng m

RT: 20.90 min Scan# 1725

Delta R.T. -0.14 min

Lab File: BF078754.D

Acq: 23 Apr 2015 18:02

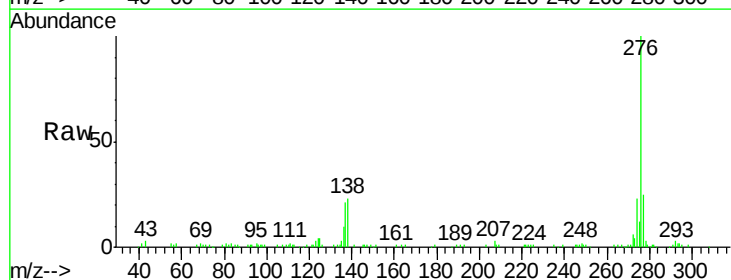
Tgt Ion:276 Resp: 116244

Ion Ratio Lower Upper

276 100

277 25.0 19.0 28.4

138 22.9 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

