

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051215\
 Data File : BF079193.D
 Acq On : 13 May 2015 10:43
 Operator : TP/IZ
 Sample : G2176-13DL 5X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PS-12A(0-3)DL

Quant Time: May 13 13:42:17 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 13 13:12:37 2015
 Response via : Initial Calibration

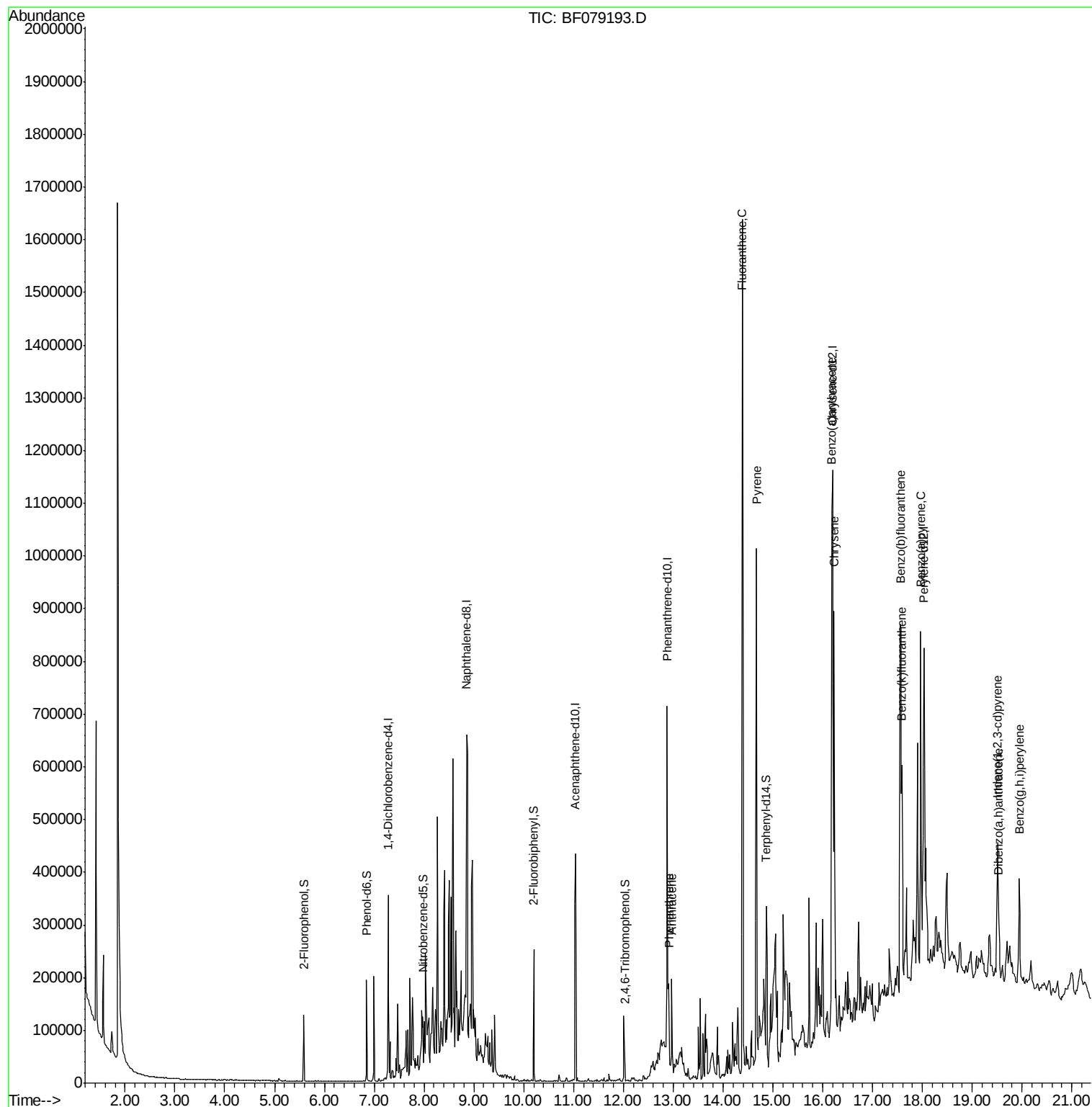
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.28	152	59323	20.00	ng	0.00
21) Naphthalene-d8	8.86	136	243041	20.00	ng	0.00
38) Acenaphthene-d10	11.04	164	120843	20.00	ng	0.00
63) Phenanthrene-d10	12.88	188	243519	20.00	ng	0.00
75) Chrysene-d12	16.19	240	255480	20.00	ng	0.02
86) Perylene-d12	18.03	264	262275	20.00	ng	0.16
System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	47527	13.79	ng	0.00
7) Phenol-d6	6.84	99	66625	14.63	ng	0.00
23) Nitrobenzene-d5	7.98	82	38068	9.00	ng	0.00
41) 2,4,6-Tribromophenol	12.02	330	17040	13.03	ng	0.00
44) 2-Fluorobiphenyl	10.20	172	79474	9.16	ng	0.00
78) Terphenyl-d14	14.87	244	95116	8.91	ng	-0.01
Target Compounds						Qvalue
70) Phenanthrene	12.91	178	74536	5.47	ng	98
71) Anthracene	12.97	178	69290	5.18	ng	97
74) Fluoranthene	14.39	202	718457	50.61	ng	100
77) Pyrene	14.67	202	536746	36.46	ng	99
80) Benzo(a)anthracene	16.18	228	474692	33.93	ng	99
82) Chrysene	16.23	228	353260	26.25	ng	97
85) Indeno(1,2,3-cd)pyrene	19.51	276	198638m	11.59	ng	
87) Benzo(b)fluoranthene	17.57	252	489030m	34.07	ng	
88) Benzo(k)fluoranthene	17.59	252	177164m	12.75	ng	
89) Benzo(a)pyrene	17.97	252	299057	22.62	ng	# 95
90) Dibenzo(a,h)anthracene	19.53	278	57433	4.09	ng	# 91
91) Benzo(a,h,i)perylene	19.94	276	158748	11.27	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: 7.28 min Scan# 533

Delta R.T. -0.00 min

Lab File: BF079193.D

Acq: 13 May 2015 10:43

Instrument :

BNA_F

ClientSampleId :

PS-12A(0-3)DL

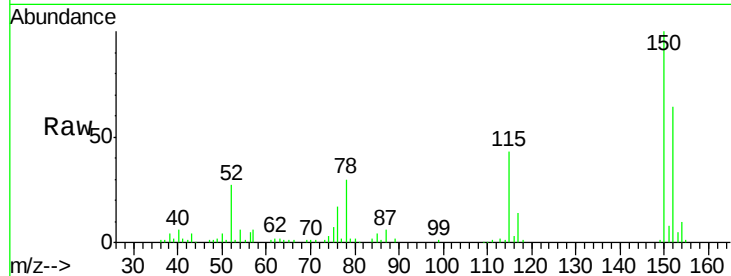
Tot Ion:152 Resp: 59323

Ion Ratio Lower Upper

152 100

150 157.5 122.0 183.0

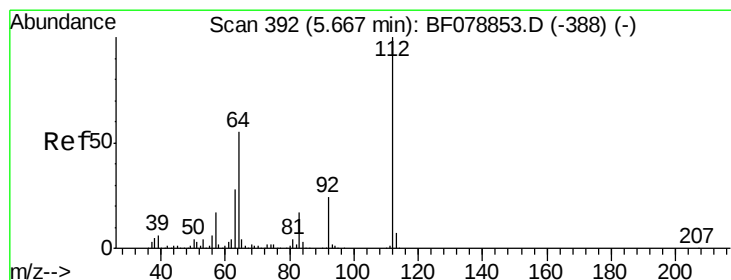
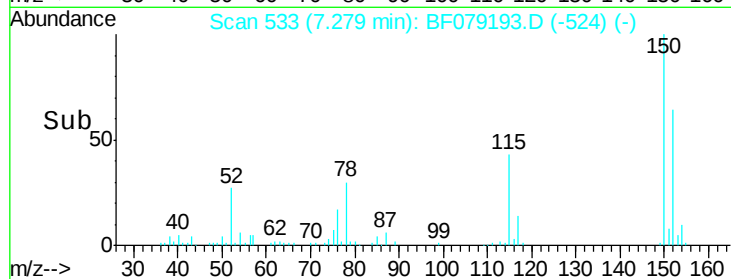
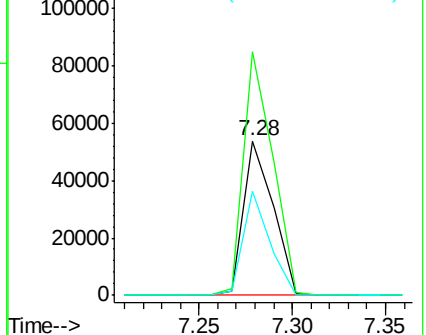
115 67.7 46.3 69.5



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: 13.79 ng

RT: 5.59 min Scan# 385

Delta R.T. -0.00 min

Lab File: BF079193.D

Acq: 13 May 2015 10:43

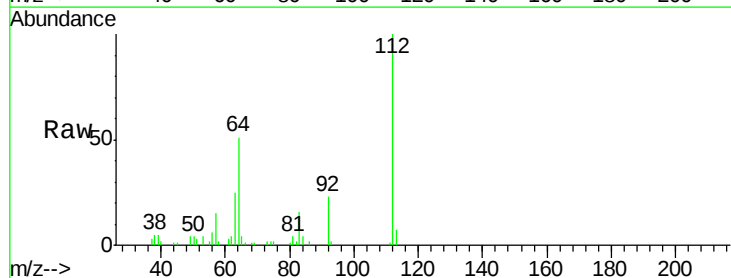
Tgt Ion:112 Resp: 47527

Ion Ratio Lower Upper

112 100

64 51.3 53.5 80.3#

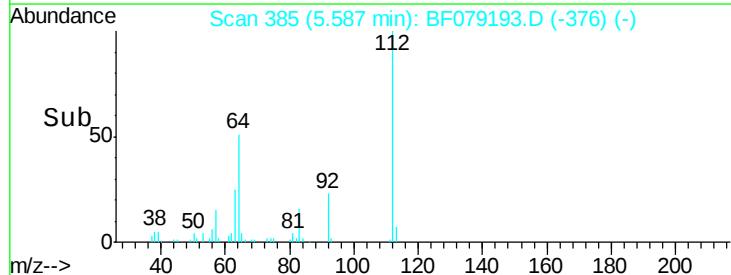
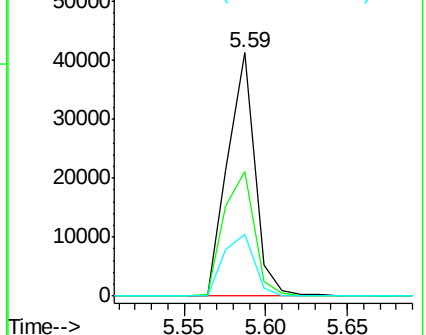
63 25.5 27.5 41.3#



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: 14.63 ng

RT: 6.84 min Scan# 495

Delta R.T. -0.00 min

Lab File: BF079193.D

Acq: 13 May 2015 10:43

Instrument :

BNA_F

ClientSampleId :

PS-12A(0-3)DL

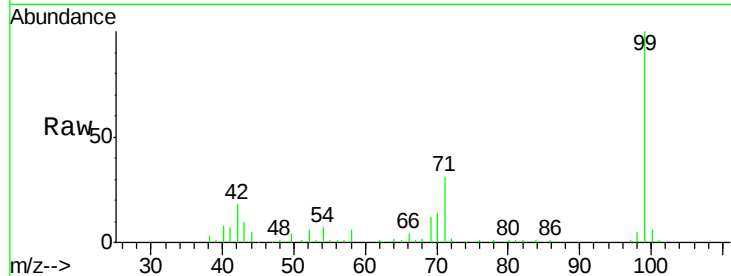
Tot Ion: 99 Resp: 66625

Ion Ratio Lower Upper

99 100

42 17.8 12.8 19.2

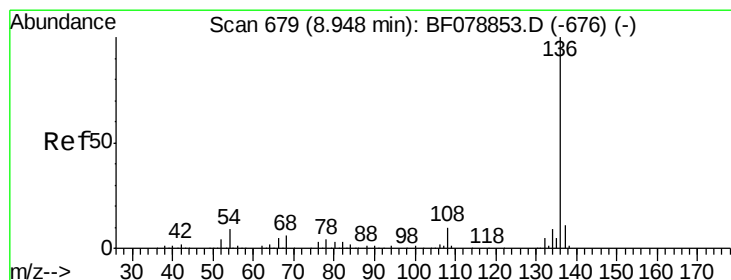
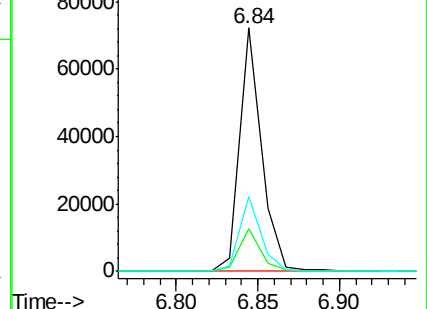
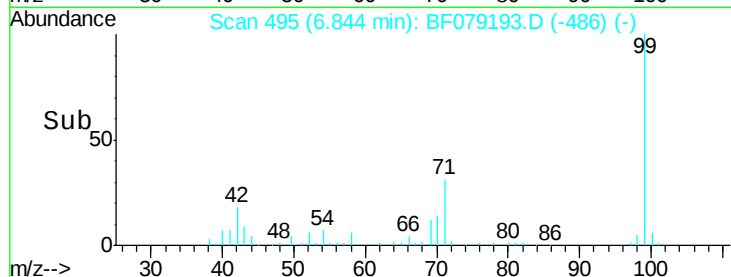
71 30.6 23.4 35.2



Abundance Ion 99.00 (98.70 to 99.70): BF078853.D (-498) (-)

Ion 42.00 (41.70 to 42.70): BF078853.D (-498) (-)

Ion 71.00 (70.70 to 71.70): BF078853.D (-498) (-)



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.86 min Scan# 671

Delta R.T. -0.00 min

Lab File: BF079193.D

Acq: 13 May 2015 10:43

Tgt Ion: 136 Resp: 243041

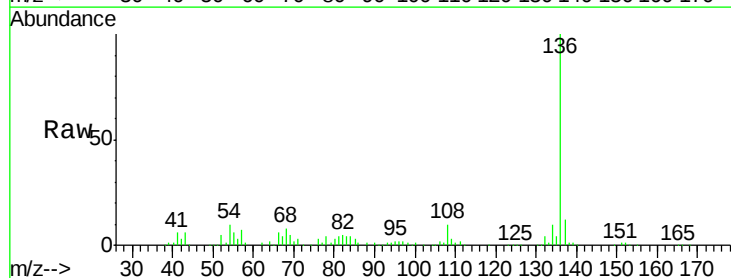
Ion Ratio Lower Upper

136 100

137 11.5 8.7 13.1

54 10.1 5.8 8.8#

68 7.5 4.2 6.4#

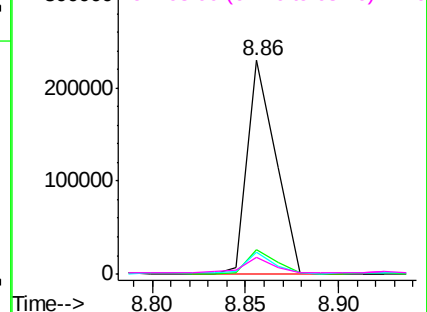
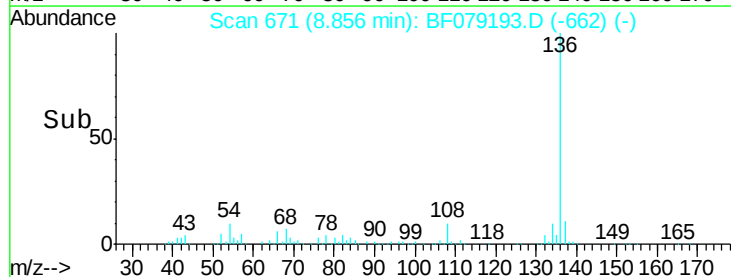


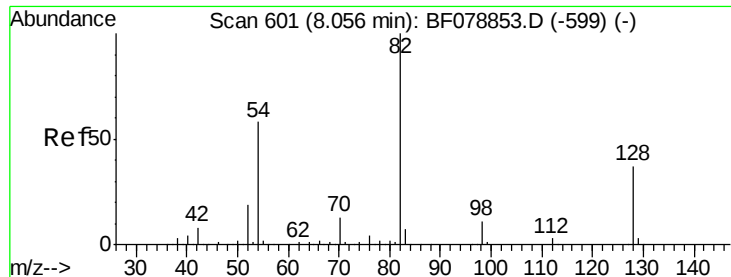
Abundance Ion 136.00 (135.70 to 136.70): BF078853.D (-676) (-)

Ion 137.00 (136.70 to 137.70): BF078853.D (-676) (-)

Ion 54.00 (53.70 to 54.70): BF078853.D (-676) (-)

Ion 68.00 (67.70 to 68.70): BF078853.D (-676) (-)

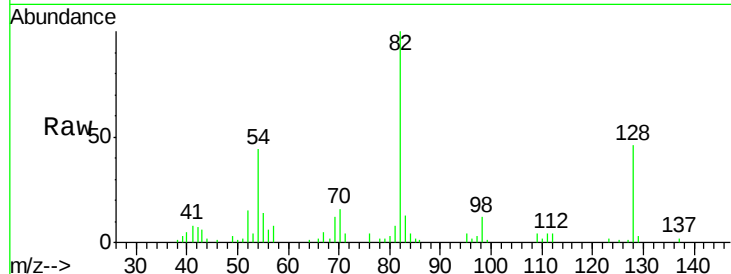




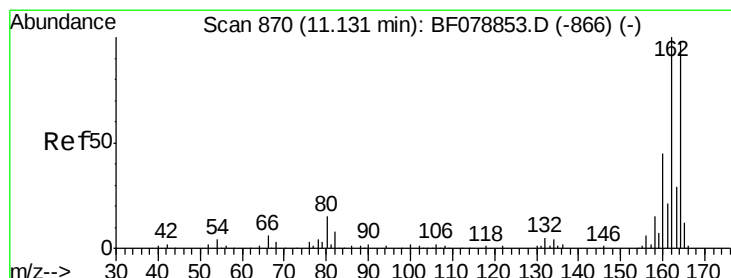
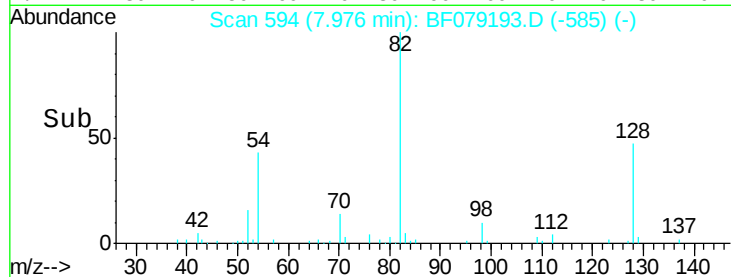
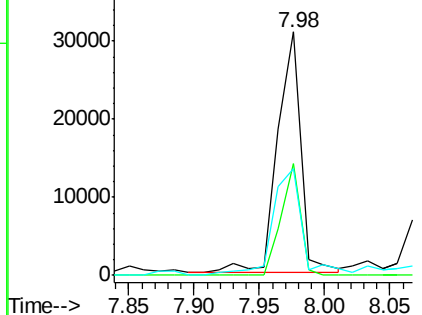
#23
 Nitrobenzene-d5
 Concen: 9.00 ng
 RT: 7.98 min Scan# 594
 Delta R.T. -0.00 min
 Lab File: BF079193.D
 Acq: 13 May 2015 10:43

Instrument :
 BNA_F
 ClientSampleId :
 PS-12A(0-3)DL

Tot Ion	82	Resp	38068
Ion Ratio	Lower	Upper	
82	100		
128	46.0	30.0	45.0#
54	43.6	46.4	69.6#

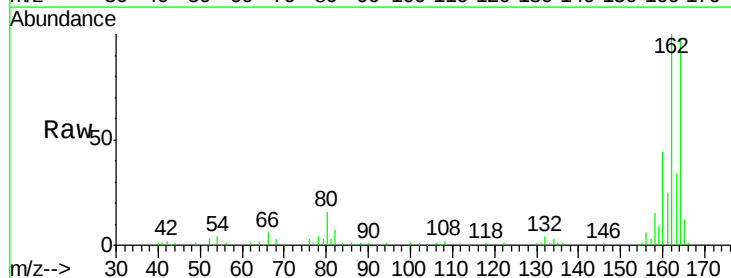


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

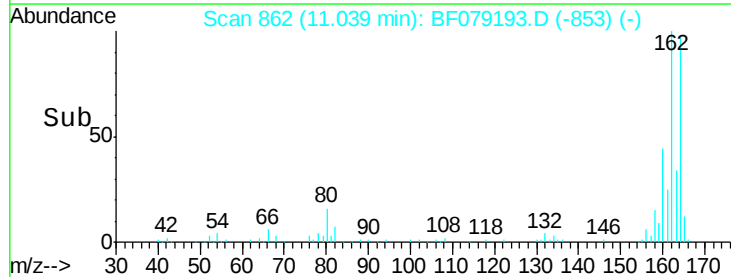
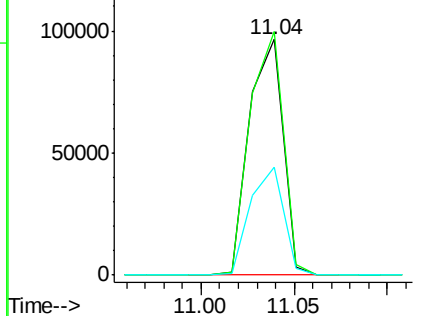


#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 11.04 min Scan# 862
 Delta R.T. -0.00 min
 Lab File: BF079193.D
 Acq: 13 May 2015 10:43

Tgt Ion	164	Resp	120843
Ion Ratio	Lower	Upper	
164	100		
162	103.5	82.7	124.1
160	45.6	35.8	53.8



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

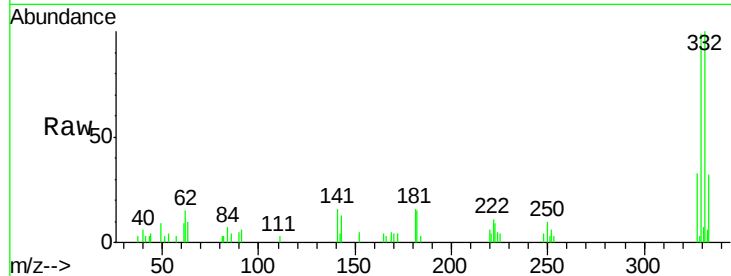




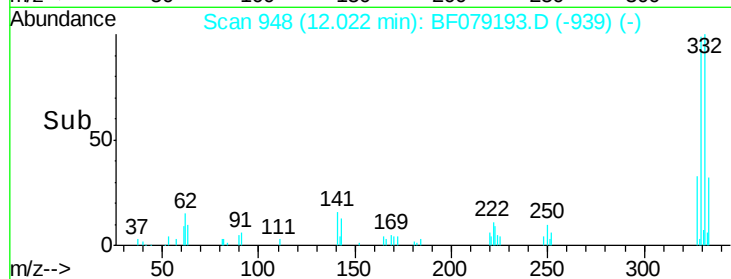
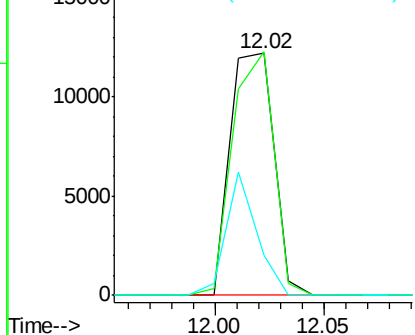
#41
 2,4,6-Tribromophenol
 Concen: 13.03 ng
 RT: 12.02 min Scan# 948
 Delta R.T. -0.00 min
 Lab File: BF079193.D
 Acq: 13 May 2015 10:43

Instrument :
 BNA_F
 ClientSampleId :
 PS-12A(0-3)DL

Tot Ion:330 Resp: 17040
 Ion Ratio Lower Upper
 330 100
 332 94.9 0.0 0.0#
 141 35.5 0.0 0.0#

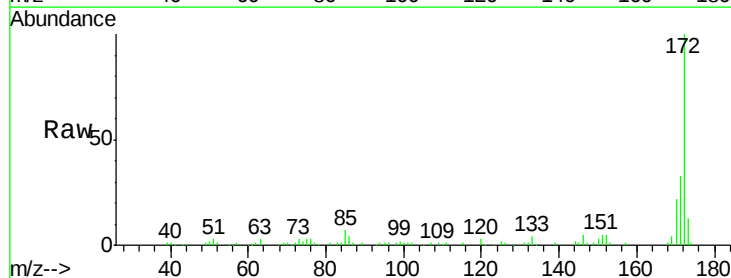


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

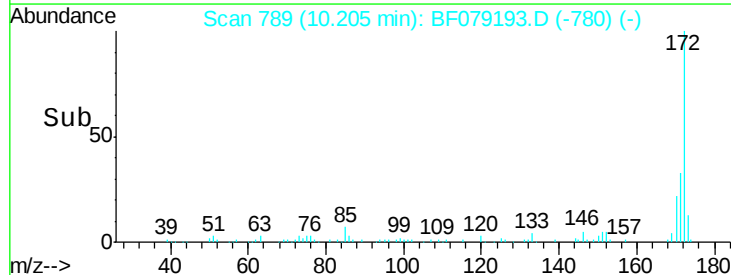
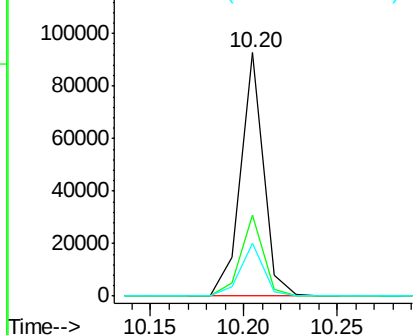


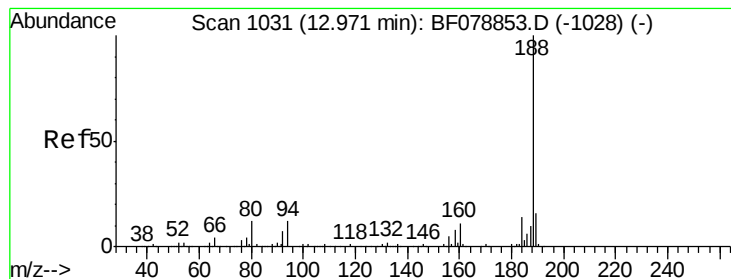
#44
 2-Fluorobiphenyl
 Concen: 9.16 ng
 RT: 10.20 min Scan# 789
 Delta R.T. -0.00 min
 Lab File: BF079193.D
 Acq: 13 May 2015 10:43

Tgt Ion:172 Resp: 79474
 Ion Ratio Lower Upper
 172 100
 171 33.3 27.9 41.9
 170 21.8 19.4 29.0



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





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.88 min Scan# 1023

Delta R.T. -0.00 min

Lab File: BF079193.D

Acq: 13 May 2015 10:43

Instrument :

BNA_F

ClientSampleId :

PS-12A(0-3)DL

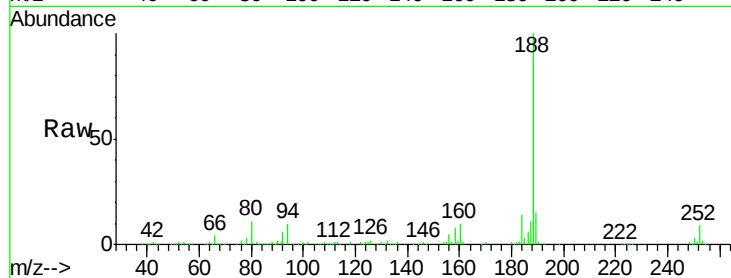
Tot Ion:188 Resp: 243519

Ion Ratio Lower Upper

188 100

94 10.3 8.2 12.2

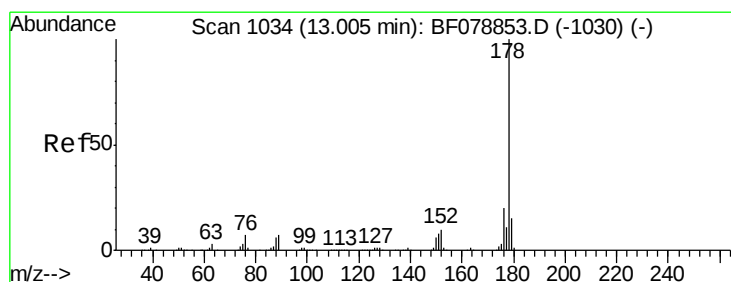
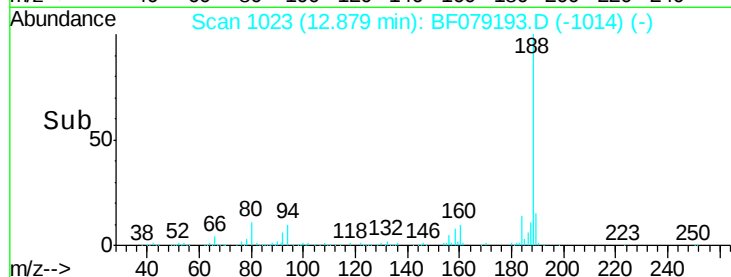
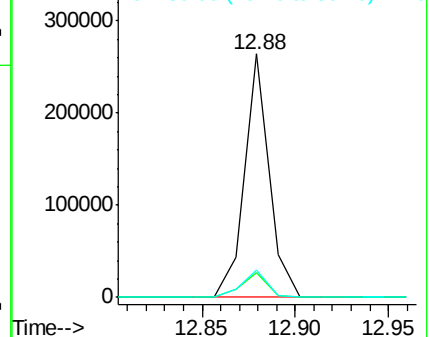
80 11.0 8.9 13.3



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: 5.47 ng

RT: 12.91 min Scan# 1026

Delta R.T. -0.00 min

Lab File: BF079193.D

Acq: 13 May 2015 10:43

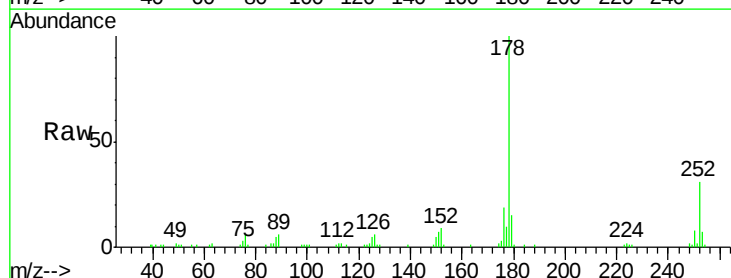
Tgt Ion:178 Resp: 74536

Ion Ratio Lower Upper

178 100

176 19.0 15.8 23.8

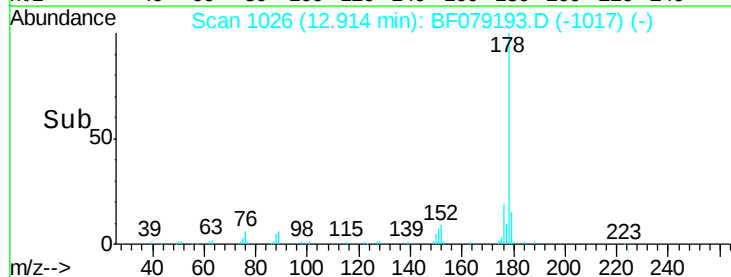
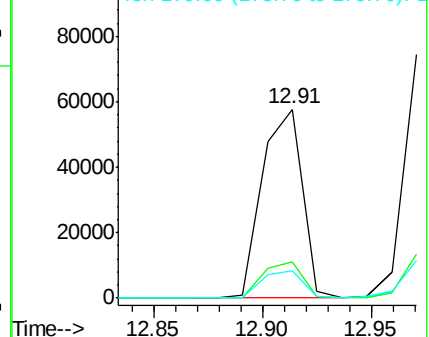
179 14.6 12.5 18.7

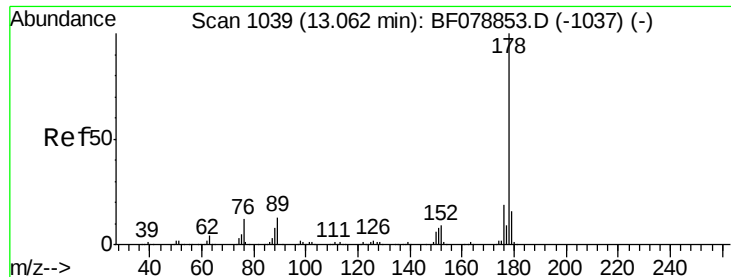


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

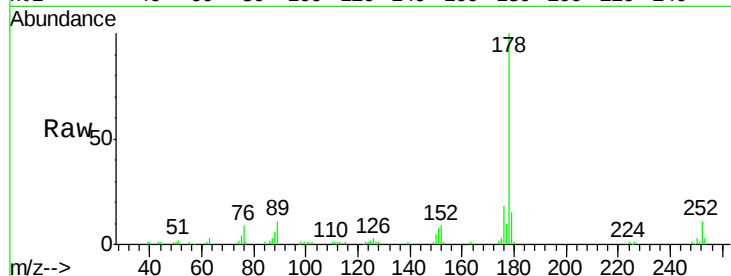




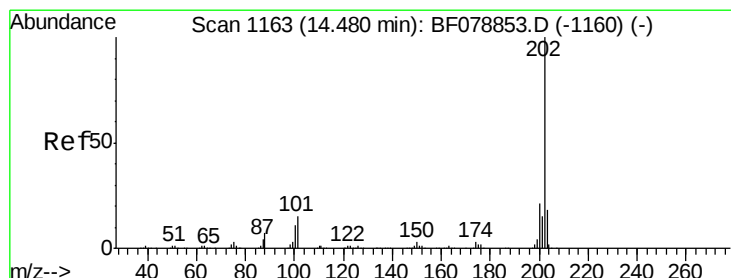
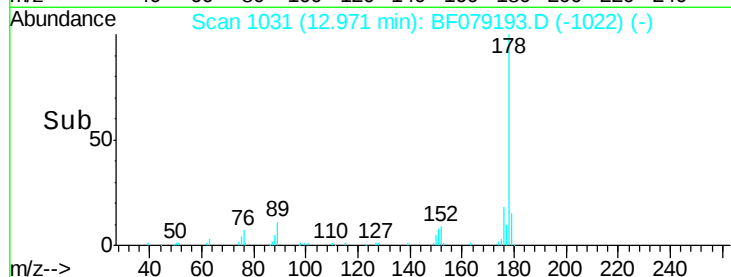
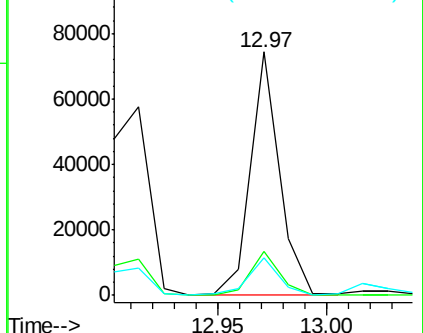
#71
 Anthracene
 Concen: 5.18 ng
 RT: 12.97 min Scan# 1031
 Delta R.T. -0.00 min
 Lab File: BF079193.D
 Acq: 13 May 2015 10:43

Instrument :
 BNA_F
 ClientSampleId :
 PS-12A(0-3)DL

Tot Ion:178 Resp: 69290
 Ion Ratio Lower Upper
 178 100
 176 17.9 15.5 23.3
 179 15.2 12.7 19.1

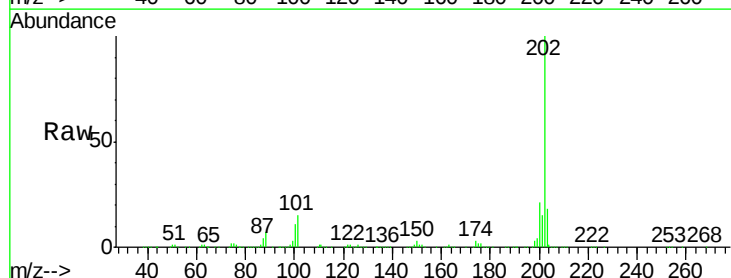


Abundance Ion 178.00 (177.70 to 178.70): E
 Ion 176.00 (175.70 to 176.70): E
 Ion 179.00 (178.70 to 179.70): E

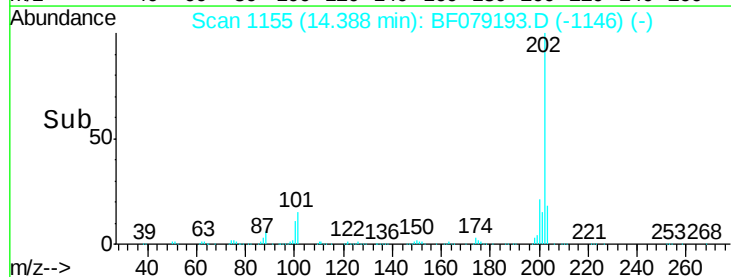
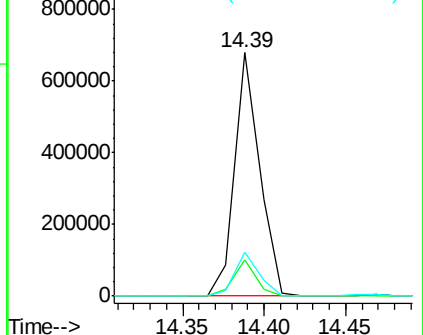


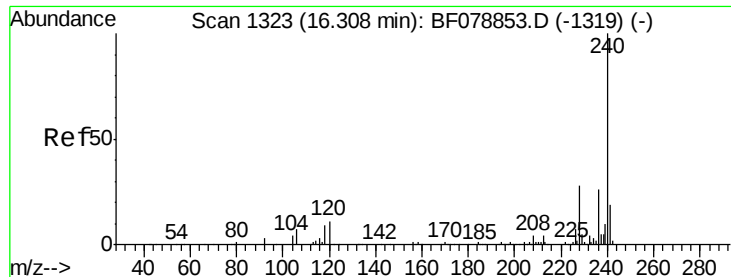
#74
 Fluoranthene
 Concen: 50.61 ng
 RT: 14.39 min Scan# 1155
 Delta R.T. -0.00 min
 Lab File: BF079193.D
 Acq: 13 May 2015 10:43

Tgt Ion:202 Resp: 718457
 Ion Ratio Lower Upper
 202 100
 101 14.7 0.0 34.6
 203 18.3 0.0 38.4



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: 16.19 min Scan# 1313

Delta R.T. 0.02 min

Lab File: BF079193.D

Acq: 13 May 2015 10:43

Instrument :

BNA_F

ClientSampleId :

PS-12A(0-3)DL

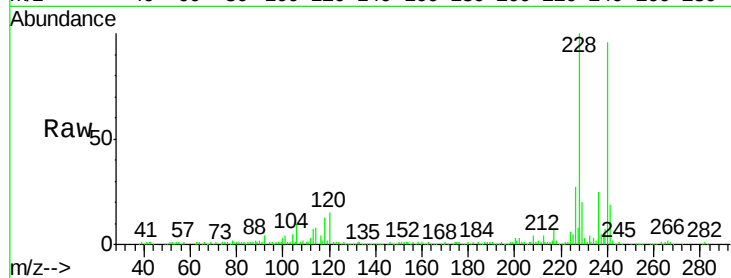
Tot Ion:240 Resp: 255480

Ion Ratio Lower Upper

240 100

120 15.9 9.7 14.5#

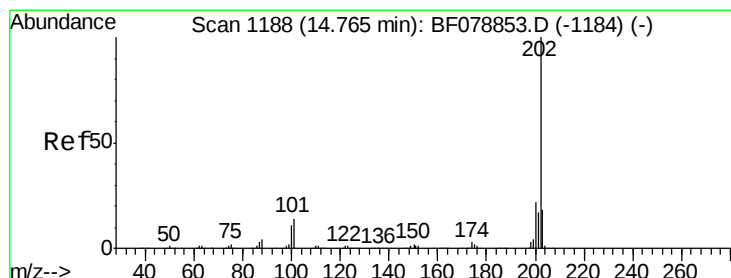
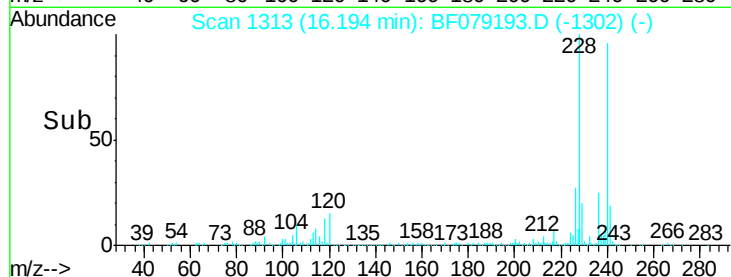
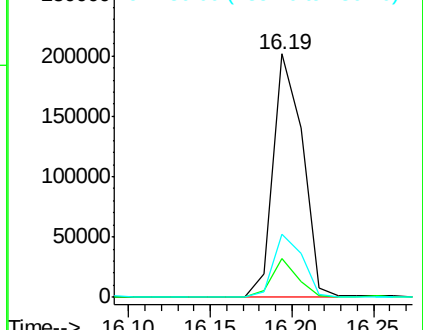
236 26.0 20.2 30.4



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: 36.46 ng

RT: 14.67 min Scan# 1180

Delta R.T. -0.00 min

Lab File: BF079193.D

Acq: 13 May 2015 10:43

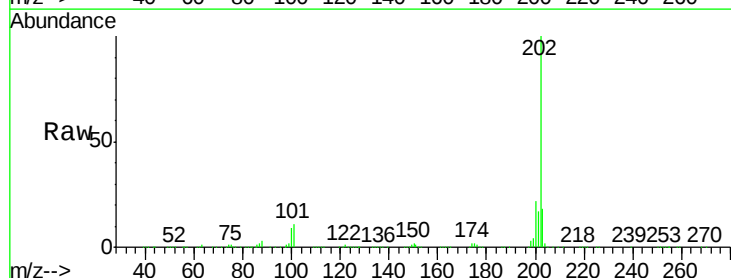
Tgt Ion:202 Resp: 536746

Ion Ratio Lower Upper

202 100

200 21.5 17.5 26.3

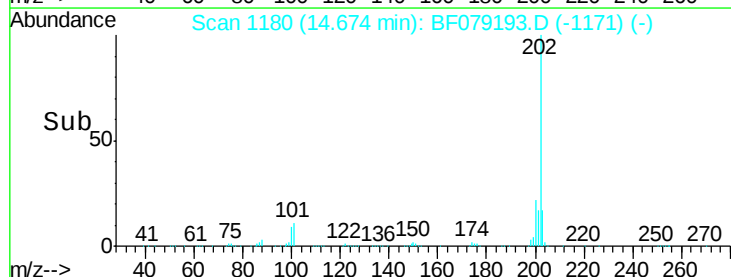
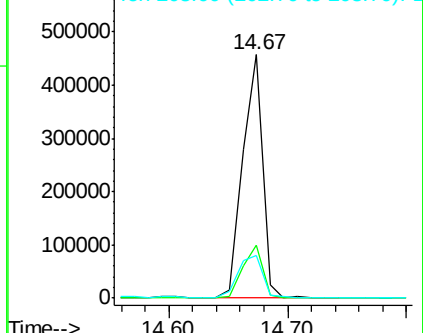
203 17.8 13.9 20.9

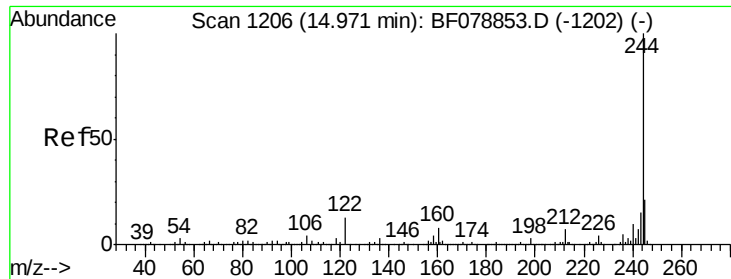


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 8.91 ng

RT: 14.87 min Scan# 1197

Delta R.T. -0.01 min

Lab File: BF079193.D

Acq: 13 May 2015 10:43

Instrument :

BNA_F

ClientSampleId :

PS-12A(0-3)DL

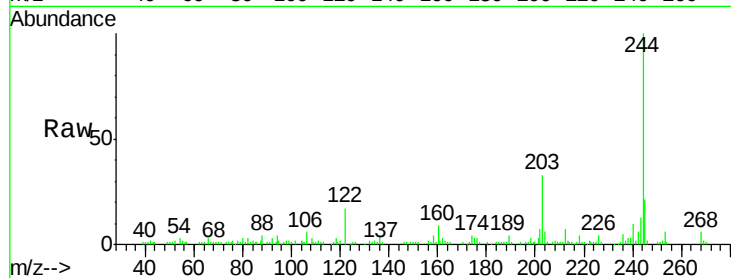
Tot Ion:244 Resp: 95116

Ion Ratio Lower Upper

244 100

212 7.4 5.6 8.4

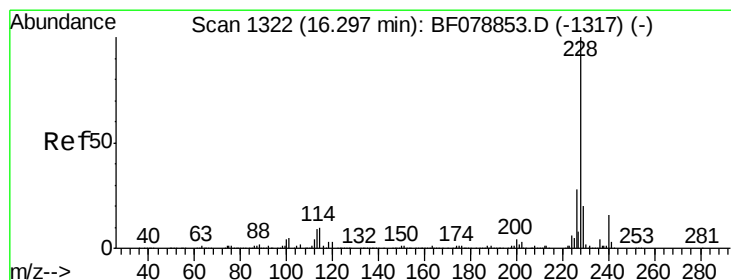
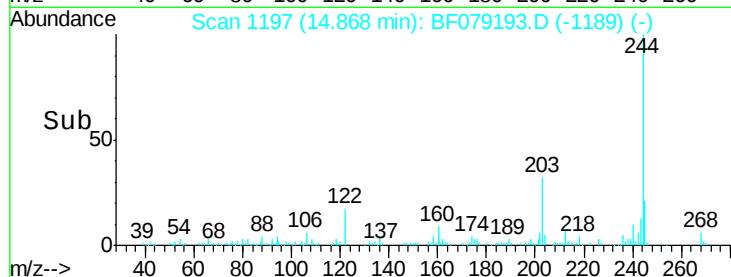
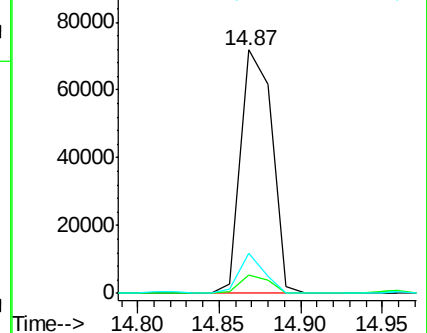
122 16.5 10.3 15.5#



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: 33.93 ng

RT: 16.18 min Scan# 1312

Delta R.T. 0.02 min

Lab File: BF079193.D

Acq: 13 May 2015 10:43

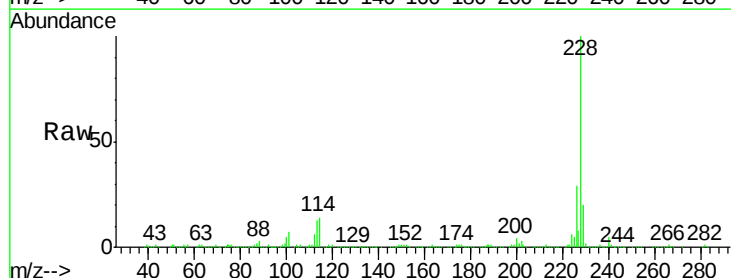
Tgt Ion:228 Resp: 474692

Ion Ratio Lower Upper

228 100

226 29.0 22.6 33.8

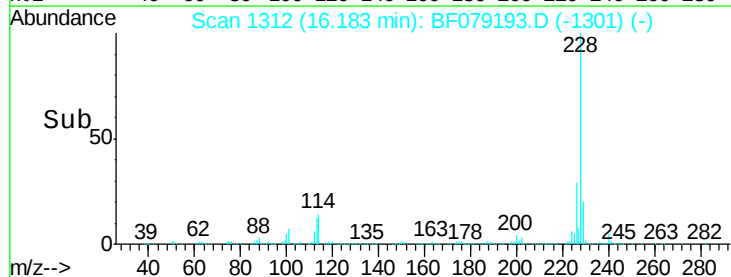
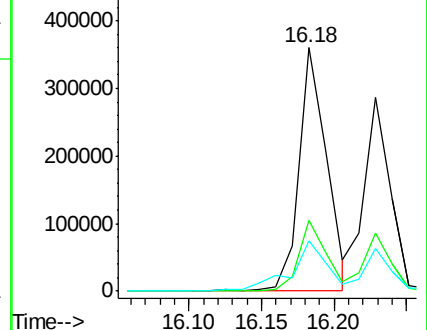
229 20.4 15.9 23.9

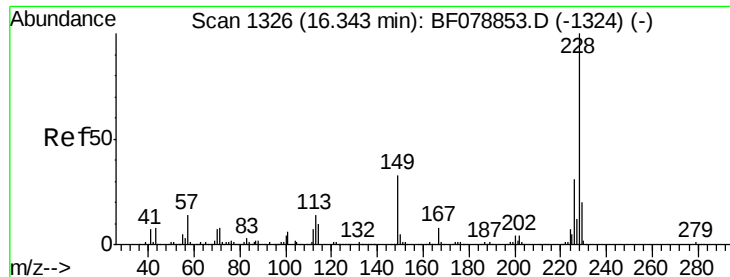


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 26.25 ng

RT: 16.23 min Scan# 1316

Delta R.T. 0.02 min

Lab File: BF079193.D

Acq: 13 May 2015 10:43

Instrument :

BNA_F

ClientSampleId :

PS-12A(0-3)DL

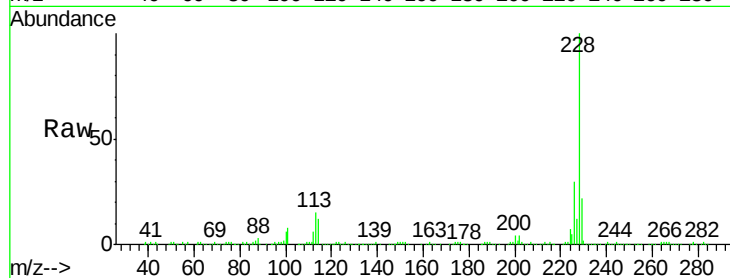
Tot Ion:228 Resp: 353260

Ion Ratio Lower Upper

228 100

226 29.8 24.9 37.3

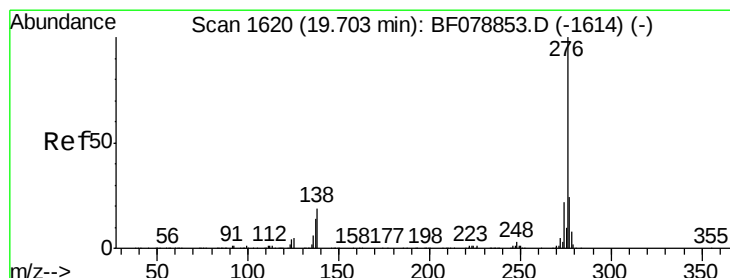
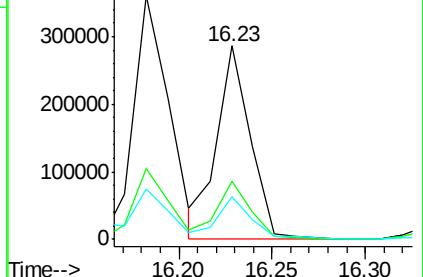
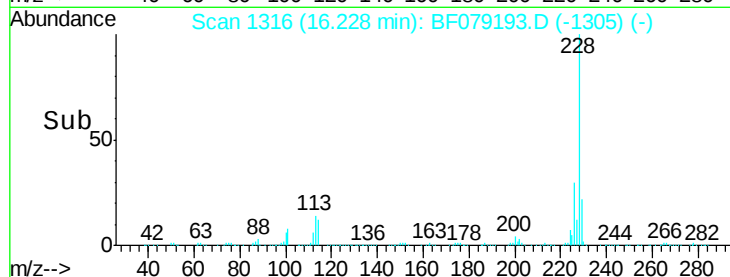
229 22.1 16.0 24.0



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: 11.59 ng m

RT: 19.51 min Scan# 1603

Delta R.T. 0.17 min

Lab File: BF079193.D

Acq: 13 May 2015 10:43

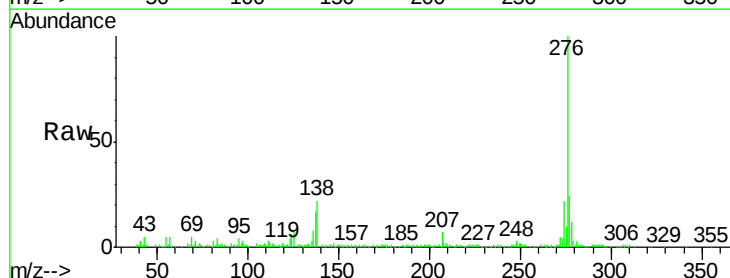
Tgt Ion:276 Resp: 198638

Ion Ratio Lower Upper

276 100

138 5.4 0.0 0.0#

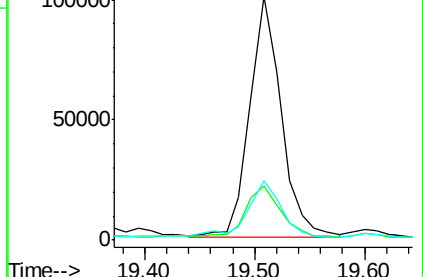
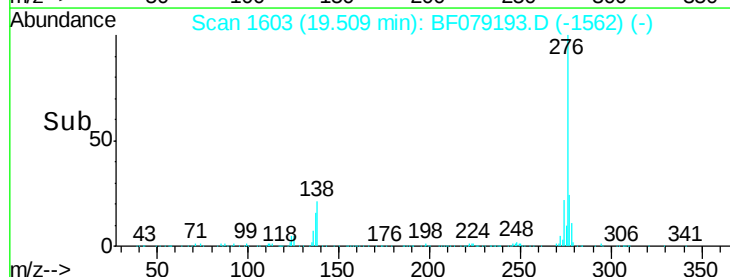
277 4.8 0.0 0.0#

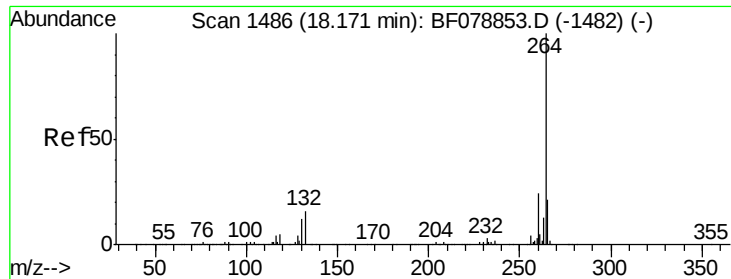


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

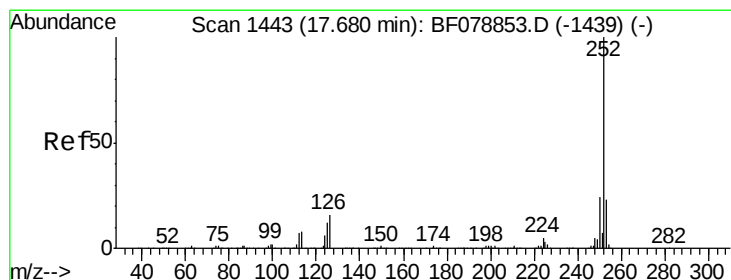
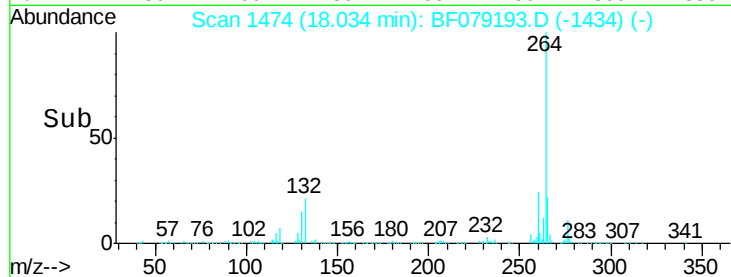
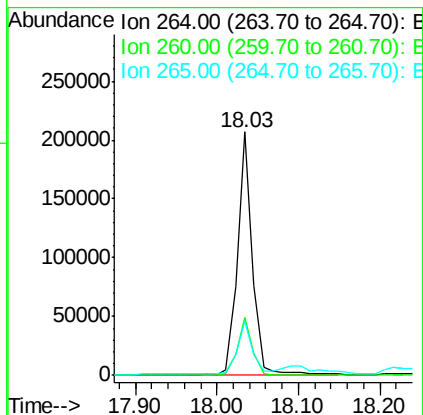
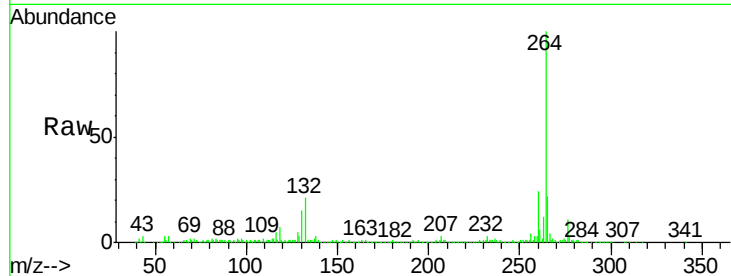




#86
 Pervlene-d12
 Concen: 20.00 ng
 RT: 18.03 min Scan# 1474
 Delta R.T. 0.16 min
 Lab File: BF079193.D
 Acq: 13 May 2015 10:43

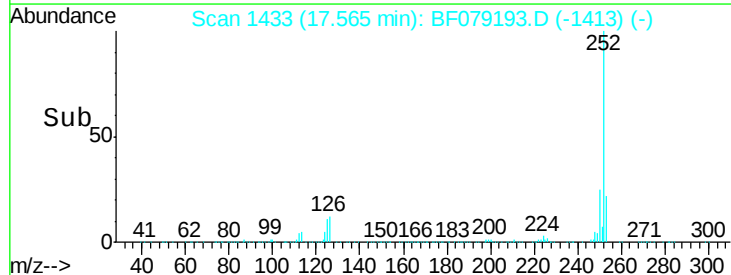
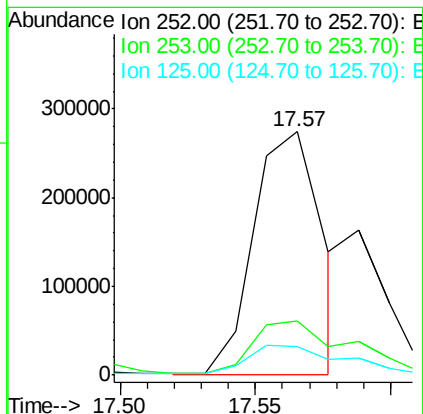
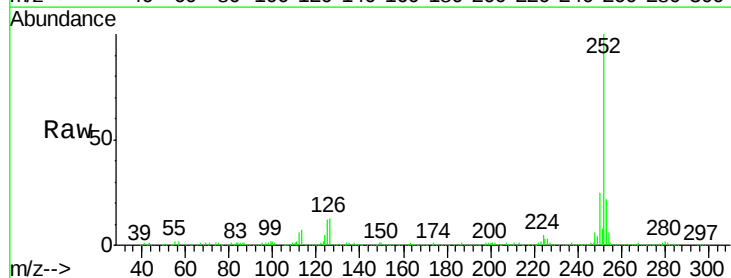
Instrument :
 BNA_F
 ClientSampleId :
 PS-12A(0-3)DL

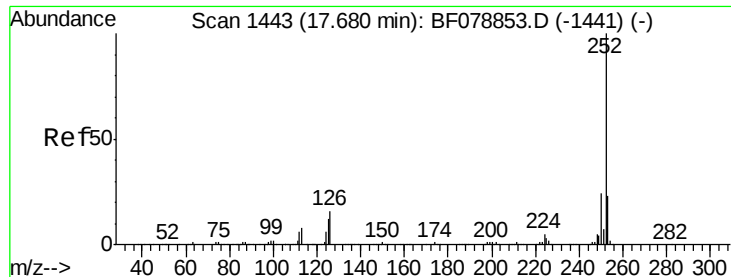
Tot Ion:264 Resp: 262275
 Ion Ratio Lower Upper
 264 100
 260 23.8 19.4 29.2
 265 22.2 18.3 27.5



#87
 Benzo(b)fluoranthene
 Concen: 34.07 ng m
 RT: 17.57 min Scan# 1433
 Delta R.T. 0.13 min
 Lab File: BF079193.D
 Acq: 13 May 2015 10:43

Tgt Ion:252 Resp: 489030
 Ion Ratio Lower Upper
 252 100
 253 22.2 17.7 26.5
 125 11.9 9.5 14.3





#88

Benzo(k)fluoranthene

Concen: 12.75 ng

RT: 17.59 min Scan# 1435

Delta R.T. 0.11 min

Lab File: BF079193.D

Acq: 13 May 2015 10:43

Instrument :

BNA_F

ClientSampleId :

PS-12A(0-3)DL

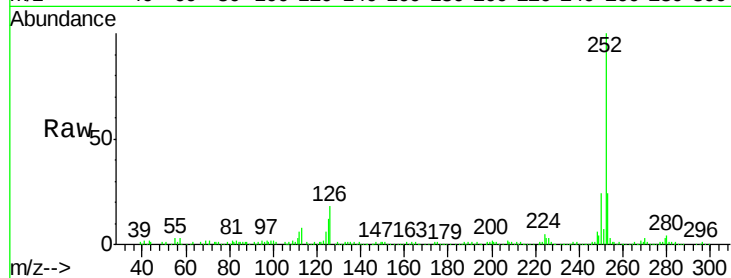
Tot Ion:252 Resp: 177164

Ion Ratio Lower Upper

252 100

253 23.7 18.1 27.1

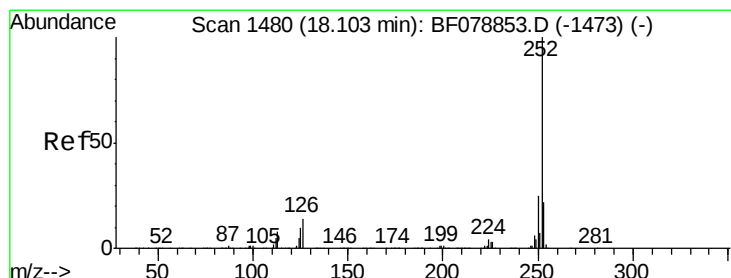
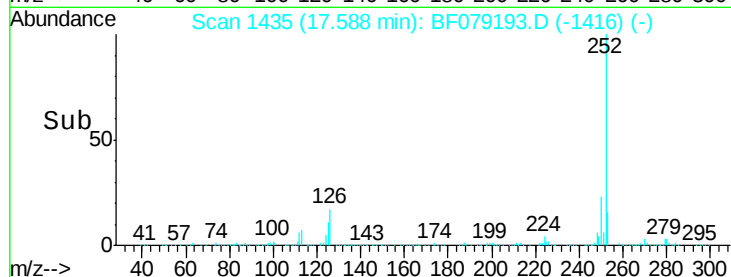
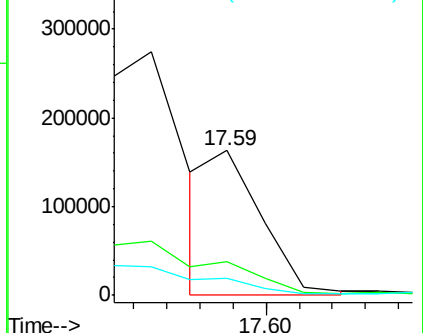
125 12.2 10.0 15.0



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



#89

Benzo(a)pyrene

Concen: 22.62 ng

RT: 17.97 min Scan# 1468

Delta R.T. 0.16 min

Lab File: BF079193.D

Acq: 13 May 2015 10:43

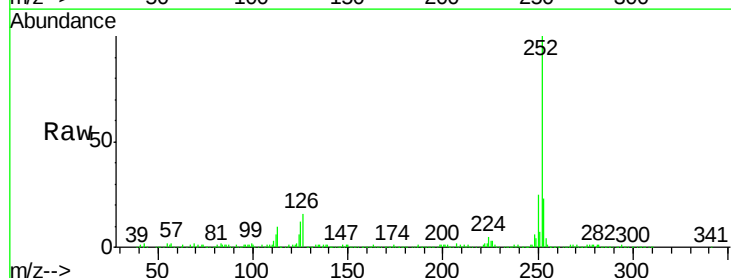
Tgt Ion:252 Resp: 299057

Ion Ratio Lower Upper

252 100

253 23.2 17.3 25.9

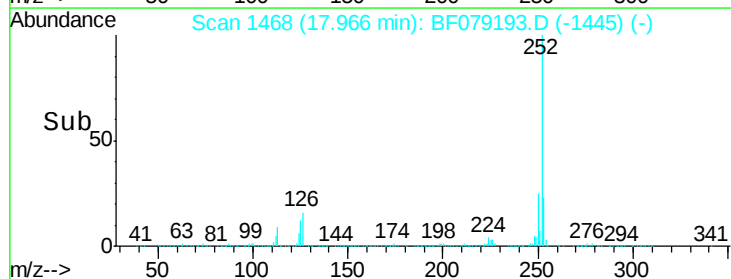
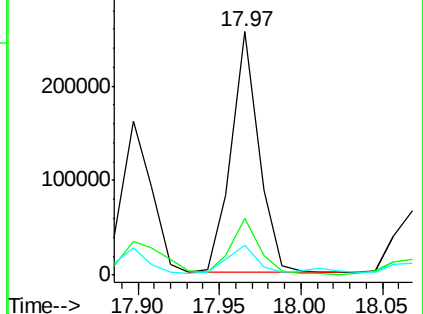
125 12.0 7.0 10.6#

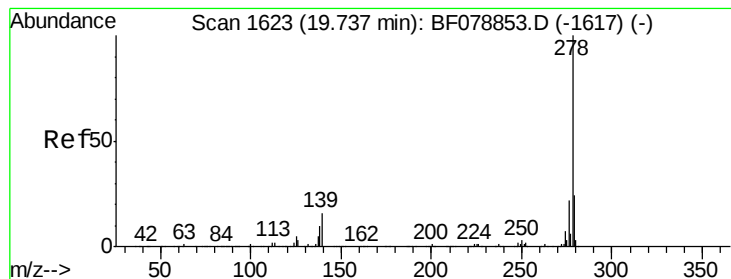


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 4.09 ng

RT: 19.53 min Scan# 1605

Delta R.T. 0.17 min

Lab File: BF079193.D

Acq: 13 May 2015 10:43

Instrument :

BNA_F

ClientSampleId :

PS-12A(0-3)DL

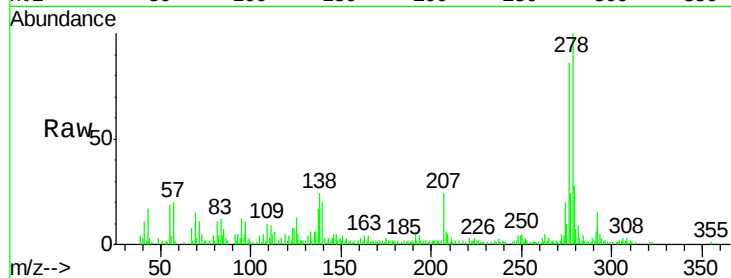
Tot Ion:278 Resp: 57433

Ion Ratio Lower Upper

278 100

139 20.3 12.8 19.2#

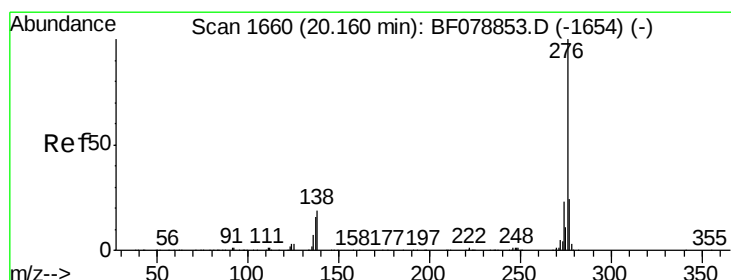
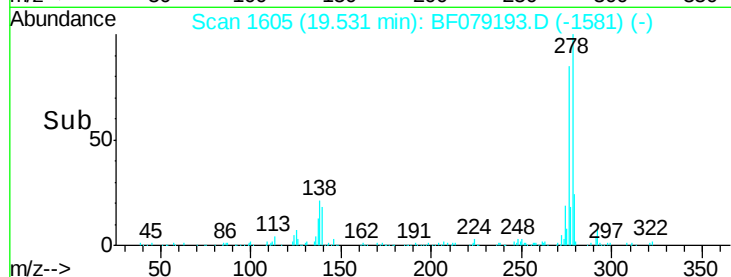
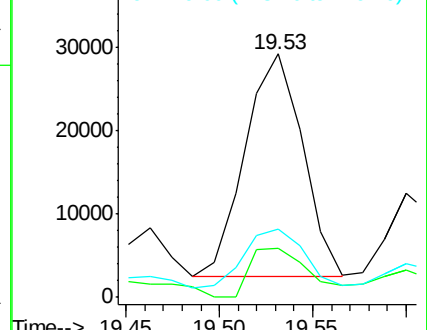
279 28.2 19.6 29.4



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: 11.27 ng

RT: 19.94 min Scan# 1641

Delta R.T. 0.17 min

Lab File: BF079193.D

Acq: 13 May 2015 10:43

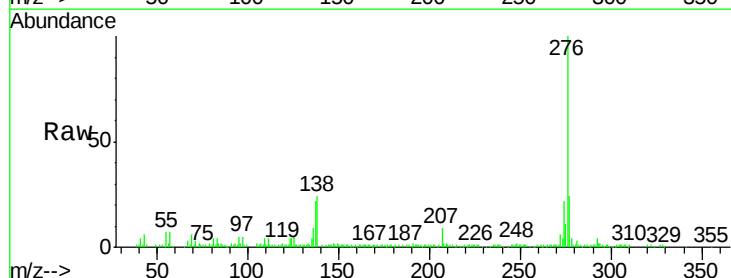
Tgt Ion:276 Resp: 158748

Ion Ratio Lower Upper

276 100

277 24.0 18.6 28.0

138 24.1 17.4 26.0



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

