

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF041015\
 Data File : BF078435.D
 Acq On : 11 Apr 2015 10:49
 Operator : TP/IZ
 Sample : G1793-06DL2 100X
 Misc :
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-4DDL2

Quant Time: Apr 13 02:22:01 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF040115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Apr 09 11:29:31 2015
 Response via : Initial Calibration

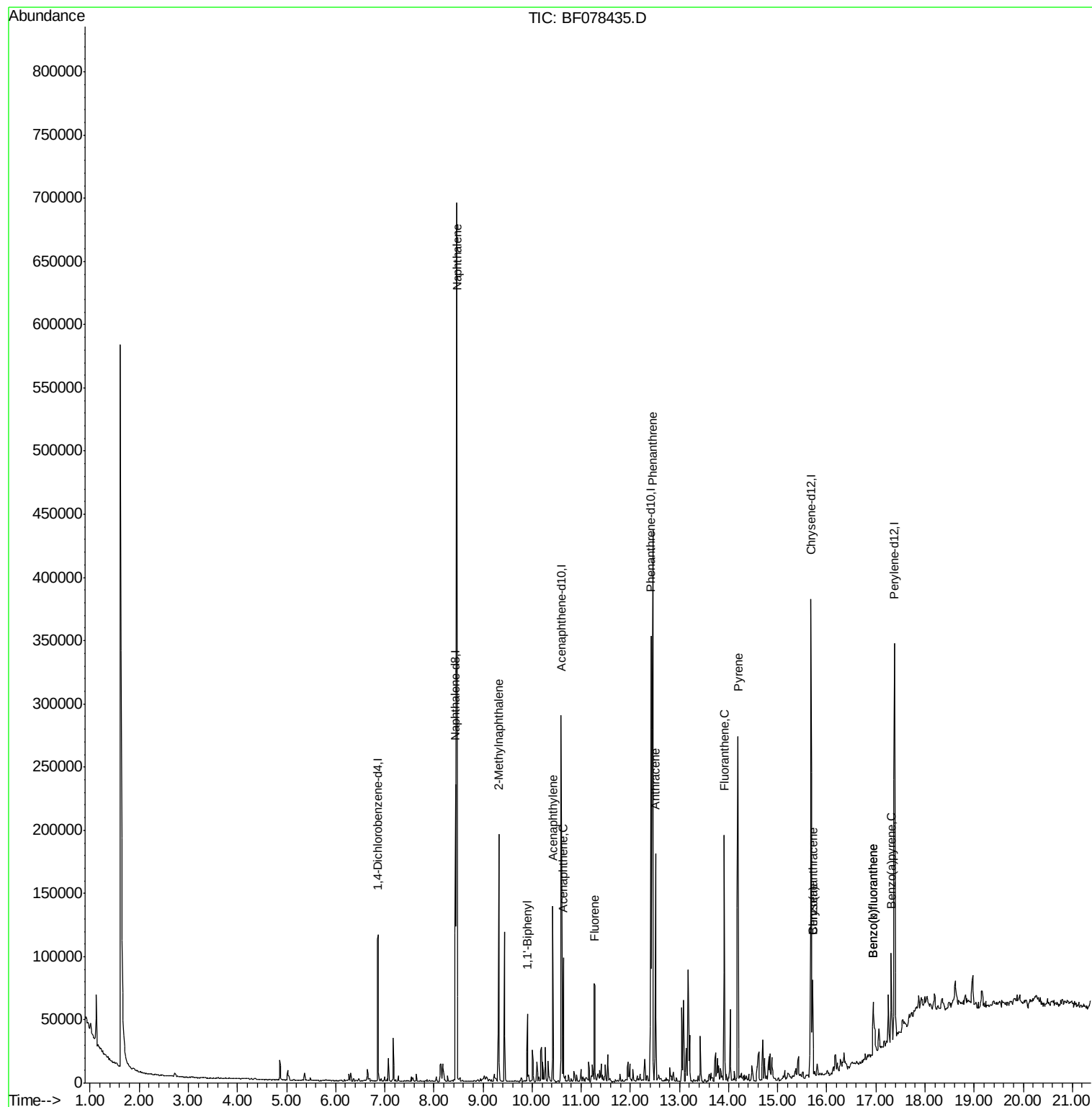
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.86	152	28279	20.00	ng	-0.02
21) Naphthalene-d8	8.44	136	127448	20.00	ng	-0.02
38) Acenaphthene-d10	10.59	164	68344	20.00	ng	-0.05
63) Phenanthrene-d10	12.42	188	138085	20.00	ng	-0.05
75) Chrysene-d12	15.68	240	156124	20.00	ng	-0.07
86) Perylene-d12	17.38	264	151067	20.00	ng	-0.08
System Monitoring Compounds						
5) 2-Fluorophenol	5.14	112	252	0.15	ng	-0.03
7) Phenol-d6	6.48	99	618	0.29	ng	0.00
23) Nitrobenzene-d5	7.57	82	221	0.11	ng	-0.01
41) 2,4,6-Tribromophenol	11.57	330	206	0.36	ng	-0.05
44) 2-Fluorobiphenyl	9.78	172	1913	0.40	ng	-0.03
78) Terphenyl-d14	14.41	244	2572	0.37	ng	-0.06
Target Compounds						
31) Naphthalene	8.46	128	307317	46.33	ng	Qvalue 99
37) 2-Methylnaphthalene	9.32	142	56708	12.59	ng	99
45) 1,1'-Biphenyl	9.90	154	20920	3.74	ng	98
48) Acenaphthylene	10.42	152	59410	8.36	ng	98
51) Acenaphthene	10.64	154	24325	6.08	ng	99
57) Fluorene	11.28	166	39933	8.07	ng	99
70) Phenanthrene	12.45	178	222641	27.87	ng	99
71) Anthracene	12.51	178	77863	9.89	ng	99
74) Fluoranthene	13.92	202	96550	11.46	ng	92
77) Pyrene	14.19	202	136888	13.97	ng	100
80) Benzo(a)anthracene	15.71	228	24871	2.68	ng	94
82) Chrysene	15.71	228	34227	3.92	ng	99
87) Benzo(b)fluoranthene	16.95	252	36219	3.88	ng	# 95
88) Benzo(k)fluoranthene	16.95	252	36428	4.39	ng	98
89) Benzo(a)pyrene	17.31	252	32259	3.96	ng	# 97

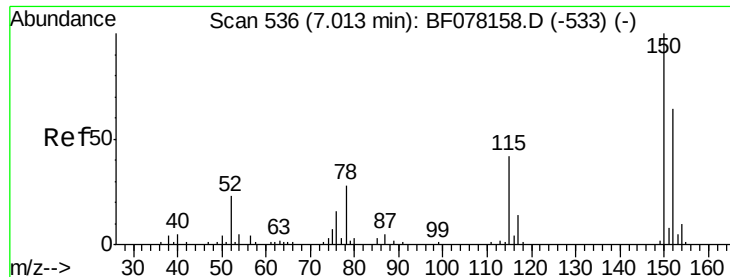
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.86 min Scan# 523

Delta R.T. -0.02 min

Lab File: BF078435.D

Acq: 11 Apr 2015 10:49

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BNA_F

ClientSampleId :

SB-4DDL2

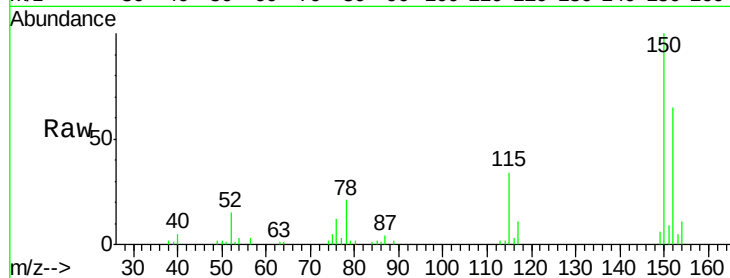
Tgt Ion:152 Resp: 28279

Ion Ratio Lower Upper

152 100

150 153.7 125.9 188.9

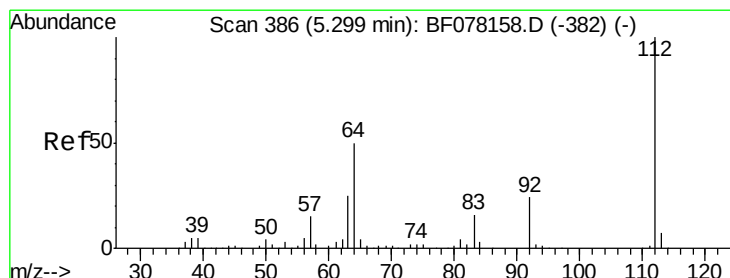
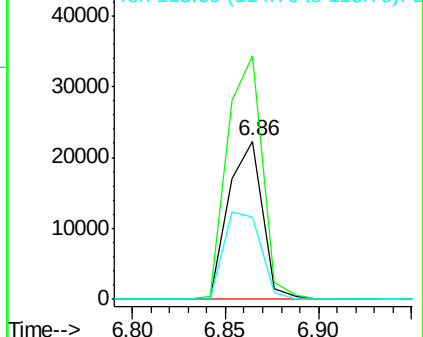
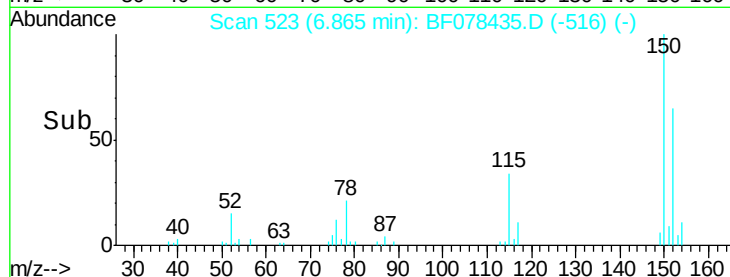
115 52.3 52.7 79.1#



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: 0.15 ng

RT: 5.14 min Scan# 372

Delta R.T. -0.03 min

Lab File: BF078435.D

Acq: 11 Apr 2015 10:49

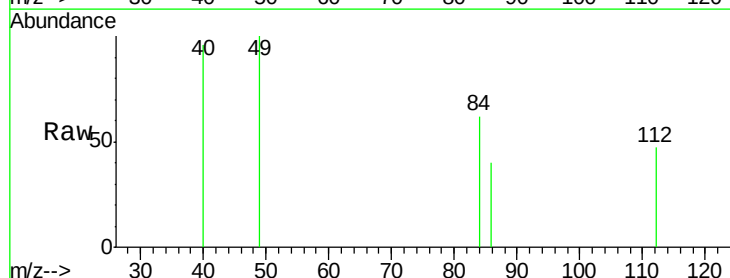
Tgt Ion:112 Resp: 252

Ion Ratio Lower Upper

112 100

64 0.0 39.9 59.9#

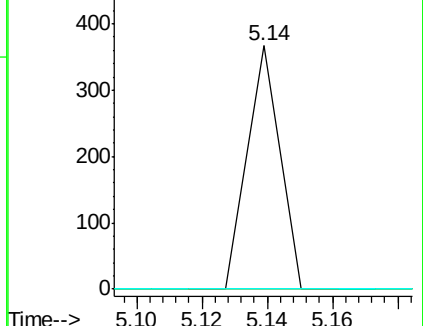
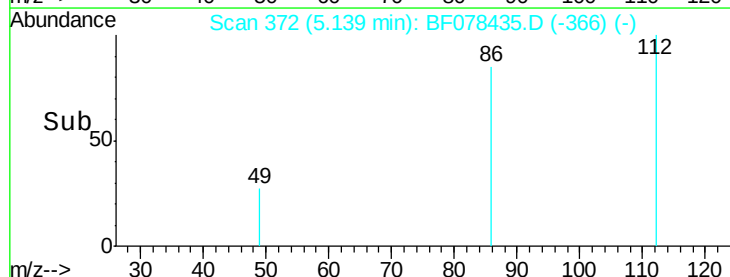
63 0.0 20.2 30.4#

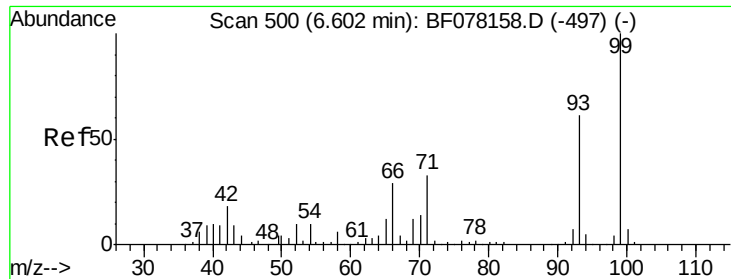


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 0.29 ng

RT: 6.48 min Scan# 489

Delta R.T. 0.00 min

Lab File: BF078435.D

Acq: 11 Apr 2015 10:49

Instrument :

BNA_F

ClientSampleId :

SB-4DDL2

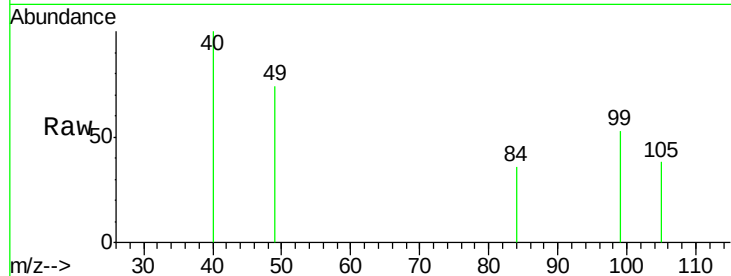
Tgt Ion: 99 Resp: 618

Ion Ratio Lower Upper

99 100

42 0.0 14.8 22.2#

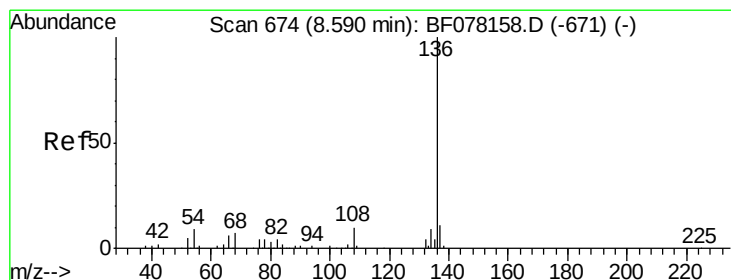
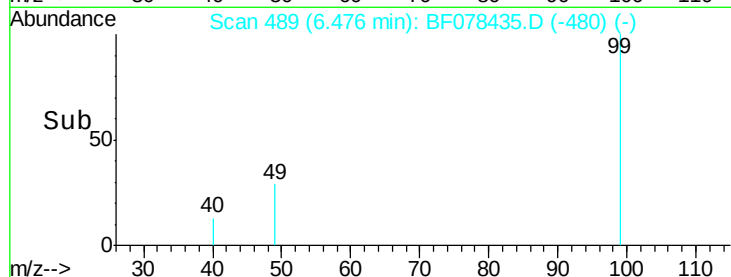
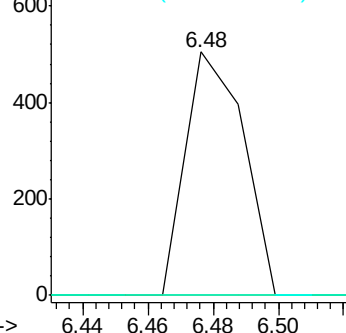
71 0.0 26.6 39.8#



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: 8.44 min Scan# 661

Delta R.T. -0.02 min

Lab File: BF078435.D

Acq: 11 Apr 2015 10:49

Tgt Ion: 136 Resp: 127448

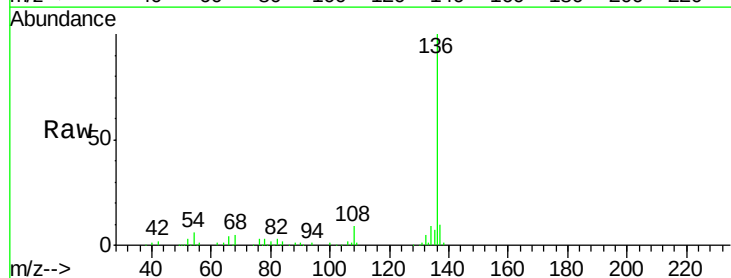
Ion Ratio Lower Upper

136 100

137 10.4 9.0 13.4

54 6.1 7.0 10.6#

68 4.7 5.4 8.2#

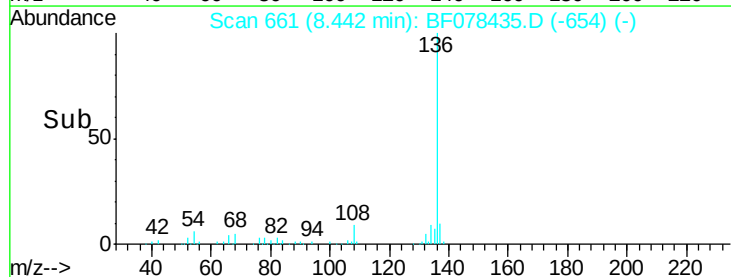
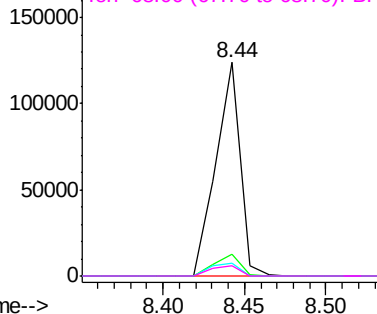


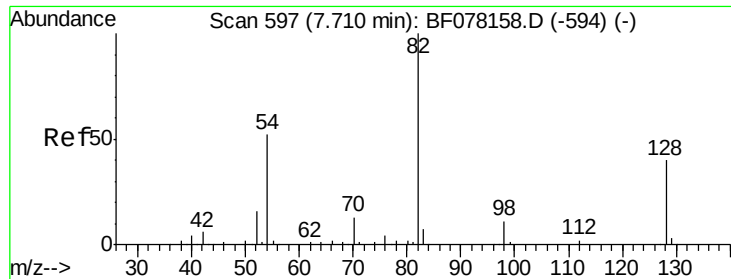
Abundance Ion 136.00 (135.70 to 136.70): E

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: 0.11 ng

RT: 7.57 min Scan# 585

Delta R.T. -0.01 min

Lab File: BF078435.D

Acq: 11 Apr 2015 10:49

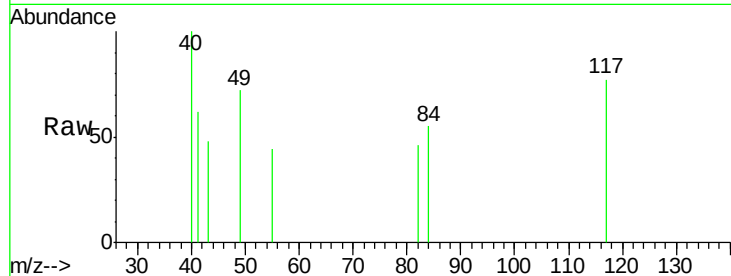
Instrument :

BNA_F

ClientSampleId :

SB-4DDL2

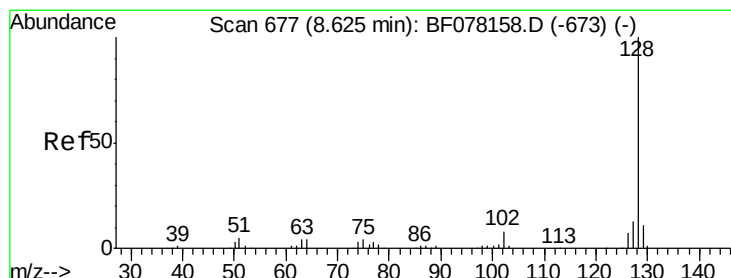
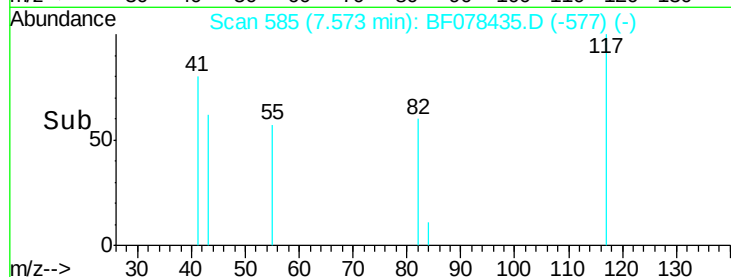
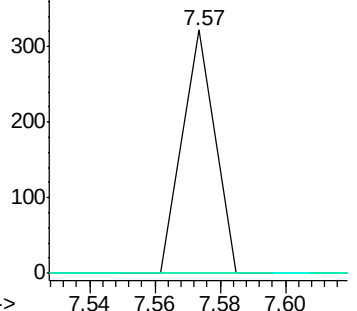
Tgt Ion:	82	Resp:	221
Ion	Ratio	Lower	Upper
82	100		
128	0.0	31.8	47.8#
54	0.0	41.5	62.3#



Abundance Ion 82.00 (81.70 to 82.70): BF078158.D (-594) (-)

Ion 128.00 (127.70 to 128.70): BF078158.D (-594) (-)

Ion 54.00 (53.70 to 54.70): BF078158.D (-594) (-)



#31

Naphthalene

Concen: 46.33 ng

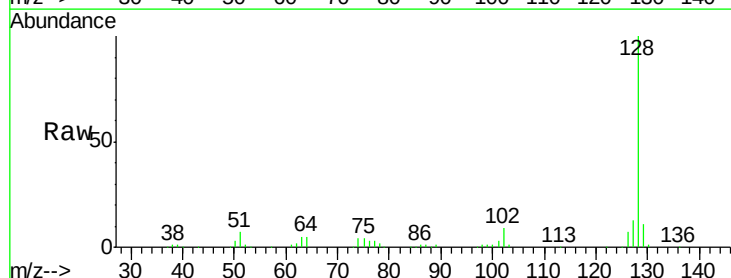
RT: 8.46 min Scan# 663

Delta R.T. -0.03 min

Lab File: BF078435.D

Acq: 11 Apr 2015 10:49

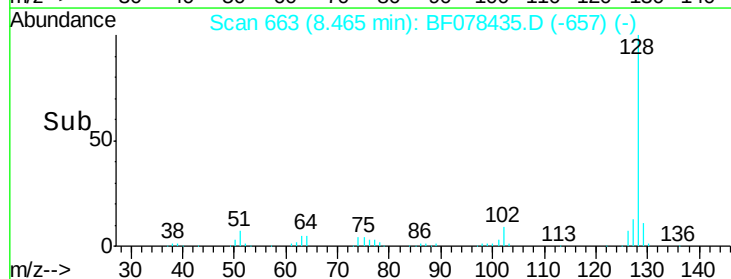
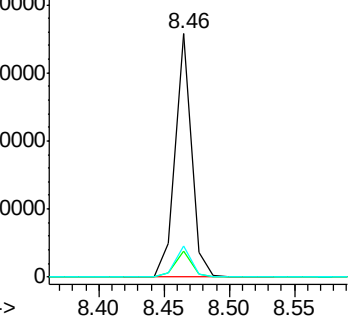
Tgt Ion:	128	Resp:	307317
Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.6	12.8
127	12.9	10.7	16.1

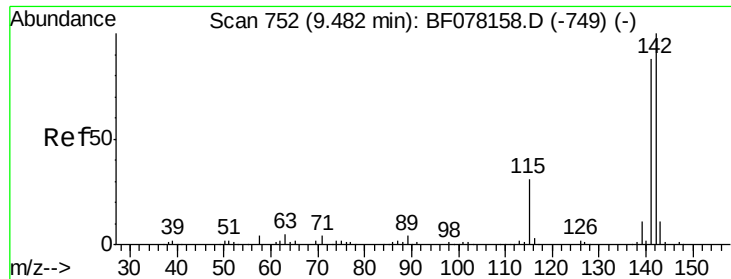


Abundance Ion 128.00 (127.70 to 128.70): BF078158.D (-673) (-)

Ion 129.00 (128.70 to 129.70): BF078158.D (-673) (-)

Ion 127.00 (126.70 to 127.70): BF078158.D (-673) (-)

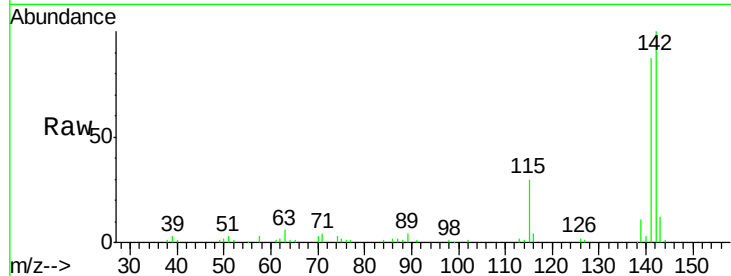




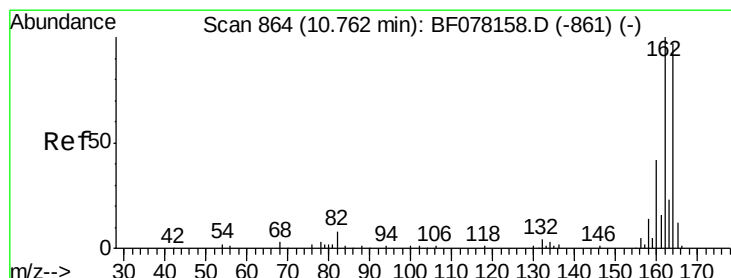
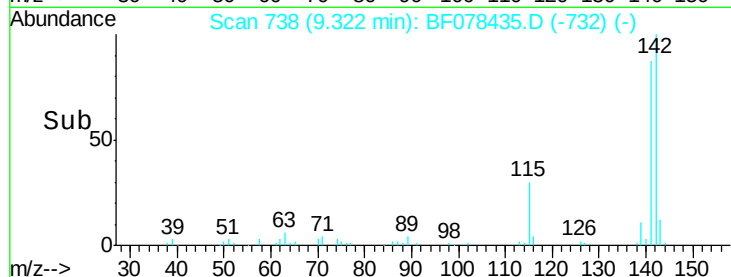
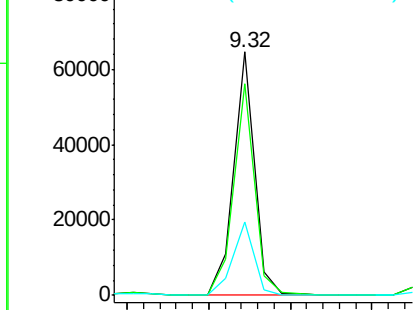
#37
 2-Methylnaphthalene
 Concen: 12.59 ng
 RT: 9.32 min Scan# 738
 Delta R.T. -0.03 min
 Lab File: BF078435.D
 Acq: 11 Apr 2015 10:49

Instrument :
 BNA_F
 ClientSampleId :
 SB-4DDL2

Tgt Ion:142 Resp: 56708
 Ion Ratio Lower Upper
 142 100
 141 87.0 70.3 105.5
 115 30.2 24.6 37.0

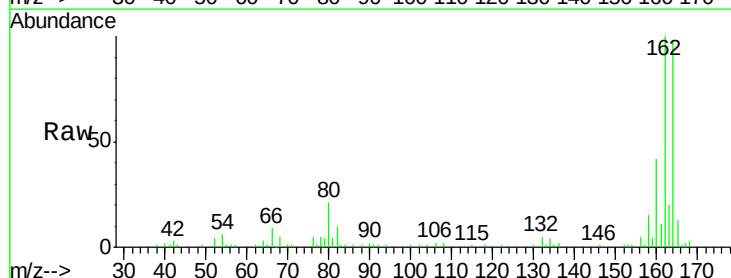


Abundance Ion 142.00 (141.70 to 142.70): E
 Ion 141.00 (140.70 to 141.70): E
 Ion 115.00 (114.70 to 115.70): E

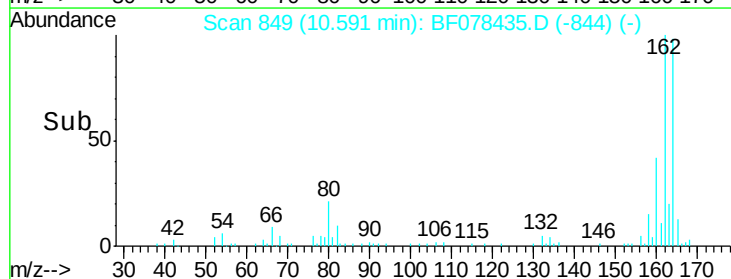
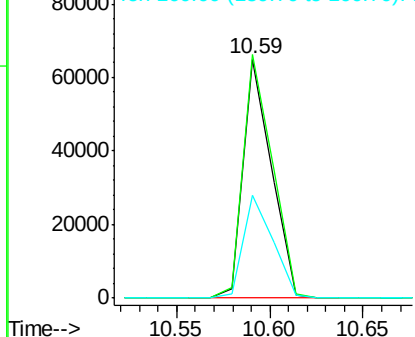


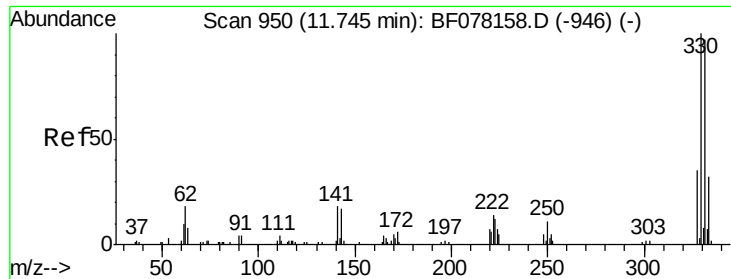
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.59 min Scan# 849
 Delta R.T. -0.05 min
 Lab File: BF078435.D
 Acq: 11 Apr 2015 10:49

Tgt Ion:164 Resp: 68344
 Ion Ratio Lower Upper
 164 100
 162 102.0 82.2 123.2
 160 43.2 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

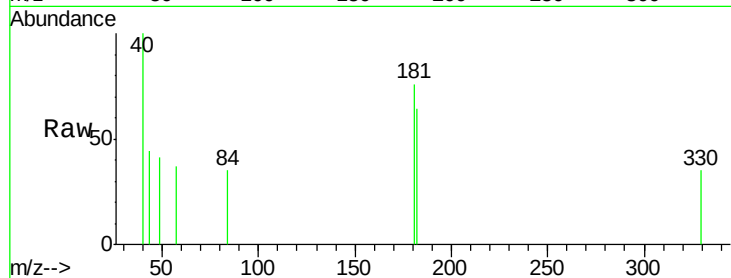




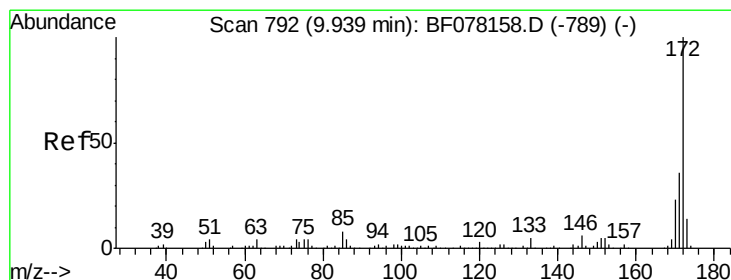
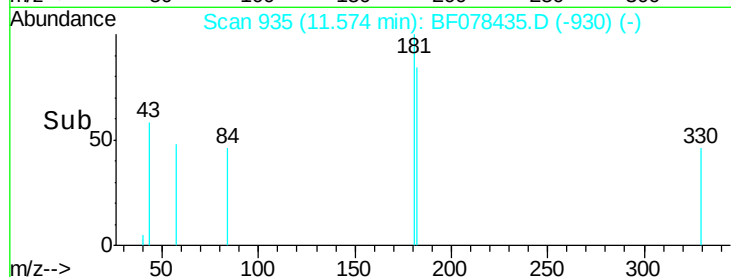
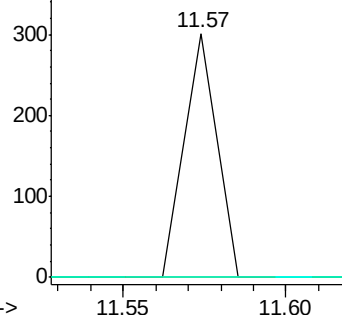
#41
 2,4,6-Tribromophenol
 Concen: 0.36 ng
 RT: 11.57 min Scan# 935
 Delta R.T. -0.05 min
 Lab File: BF078435.D
 Acq: 11 Apr 2015 10:49

Instrument :
 BNA_F
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 SB-4DDL2

Tgt Ion	Ratio	Lower	Upper
330	100		
332	0.0	78.6	117.8#
141	0.0	31.2	46.8#

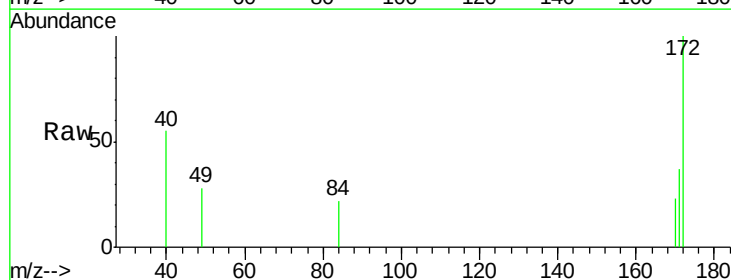


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

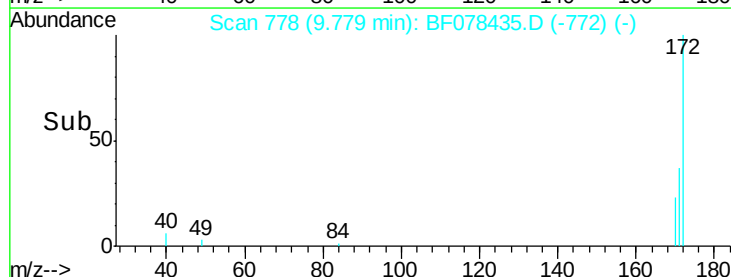
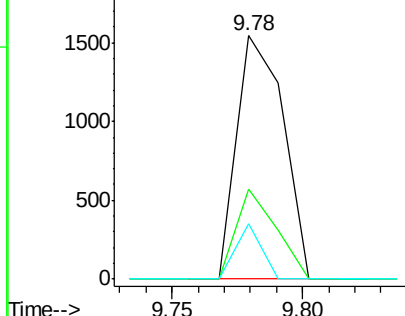


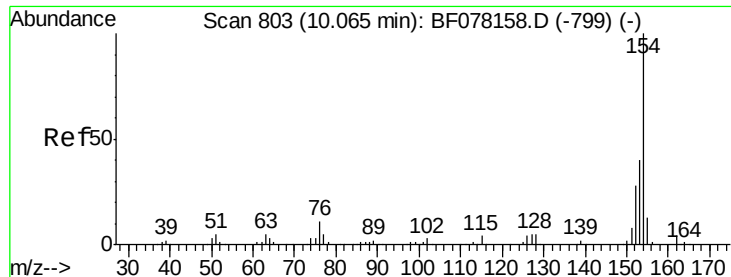
#44
 2-Fluorobiphenyl
 Concen: 0.40 ng
 RT: 9.78 min Scan# 778
 Delta R.T. -0.03 min
 Lab File: BF078435.D
 Acq: 11 Apr 2015 10:49

Tgt Ion	Ratio	Lower	Upper
172	100		
171	37.2	28.6	42.8
170	22.7	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

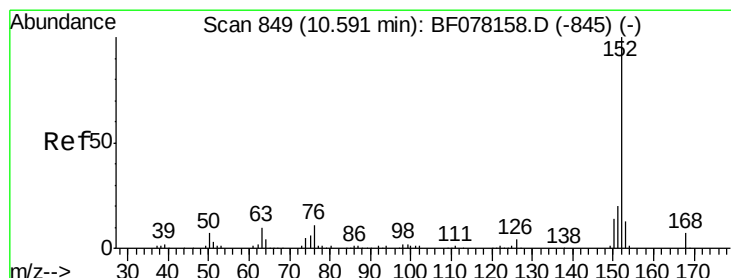
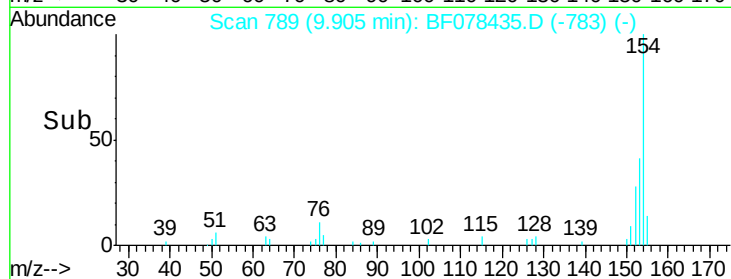
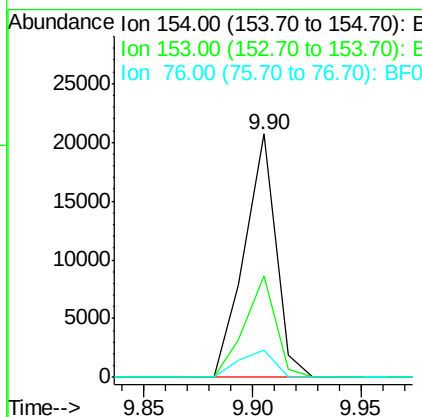
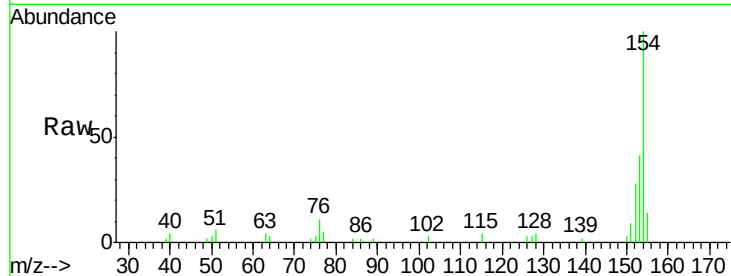




#45
 1,1'-Biphenyl
 Concen: 3.74 ng
 RT: 9.90 min Scan# 789
 Delta R.T. -0.03 min
 Lab File: BF078435.D
 Acq: 11 Apr 2015 10:49

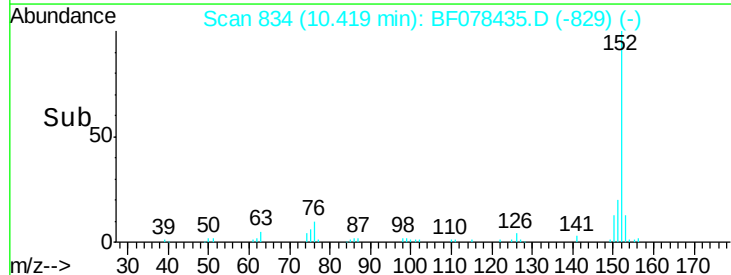
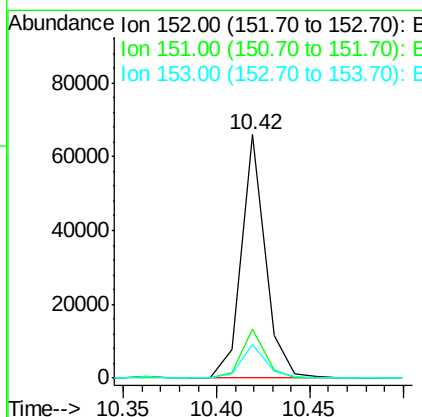
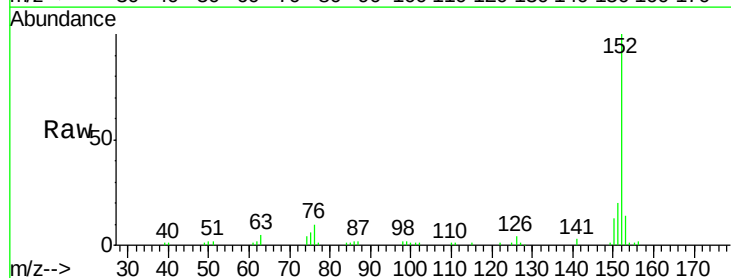
Instrument :
 BNA_F
 ClientSampleId :
 SB-4DDL2

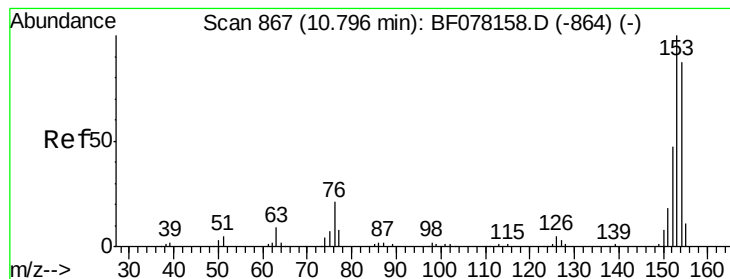
Tgt Ion:154 Resp: 20920
 Ion Ratio Lower Upper
 154 100
 153 41.4 20.0 60.0
 76 11.0 0.0 30.6



#48
 Acenaphthylene
 Concen: 8.36 ng
 RT: 10.42 min Scan# 834
 Delta R.T. -0.05 min
 Lab File: BF078435.D
 Acq: 11 Apr 2015 10:49

Tgt Ion:152 Resp: 59410
 Ion Ratio Lower Upper
 152 100
 151 20.2 15.7 23.5
 153 13.8 10.2 15.2





#51

Acenaphthene

Concen: 6.08 ng

RT: 10.64 min Scan# 853

Delta R.T. -0.03 min

Lab File: BF078435.D

Acq: 11 Apr 2015 10:49

Instrument :

BNA_F

ClientSampleId :

SB-4DDL2

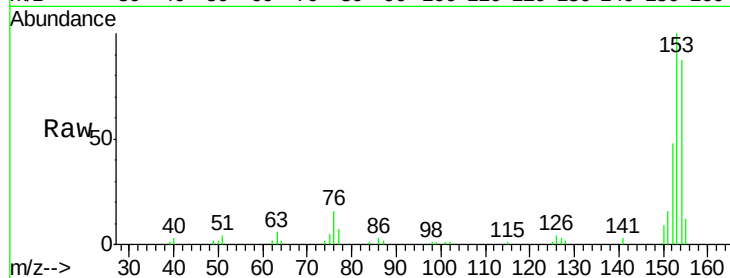
Tgt Ion:154 Resp: 24325

Ion Ratio Lower Upper

154 100

153 114.6 91.4 137.2

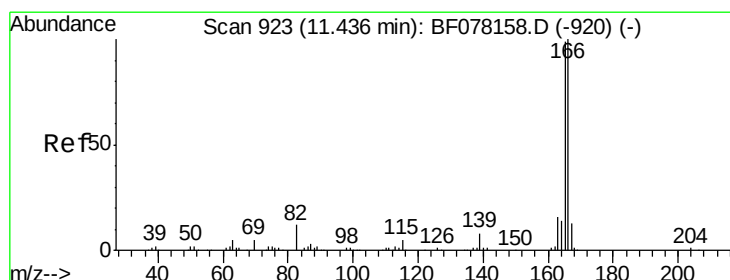
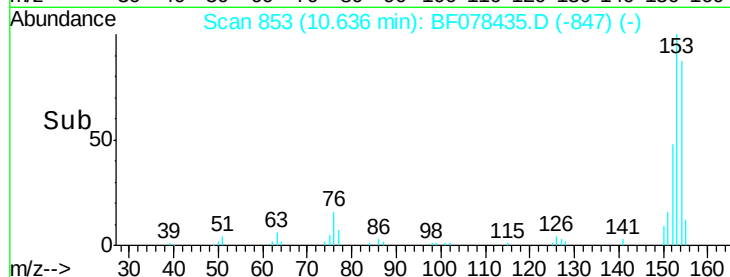
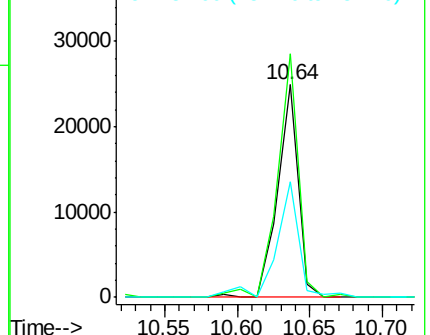
152 54.7 43.0 64.6



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



#57

Fluorene

Concen: 8.07 ng

RT: 11.28 min Scan# 909

Delta R.T. -0.03 min

Lab File: BF078435.D

Acq: 11 Apr 2015 10:49

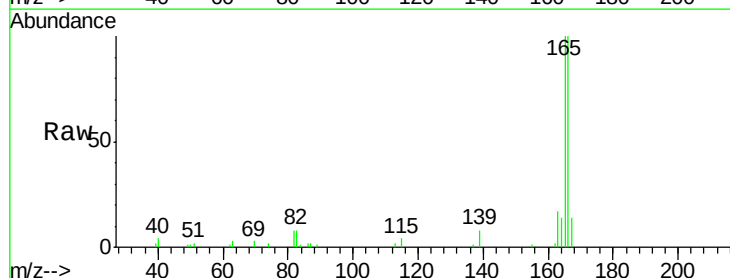
Tgt Ion:166 Resp: 39933

Ion Ratio Lower Upper

166 100

165 99.9 78.9 118.3

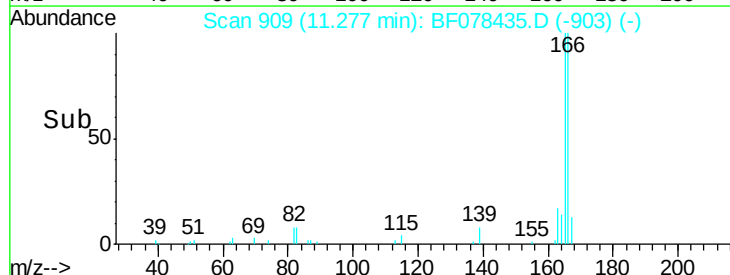
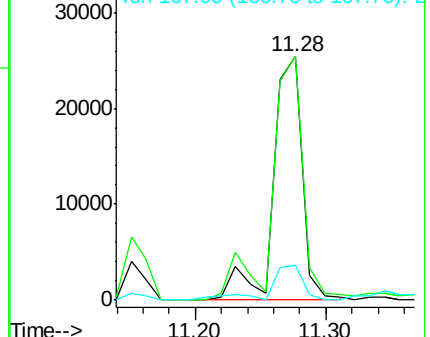
167 14.2 10.7 16.1

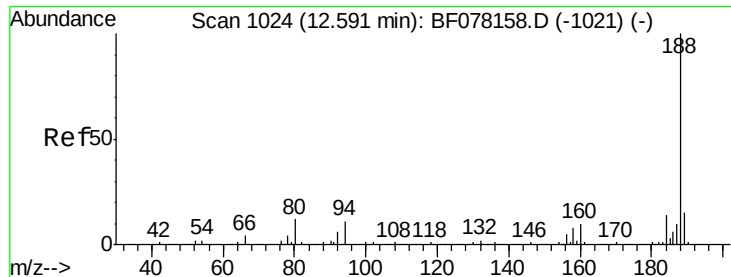


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

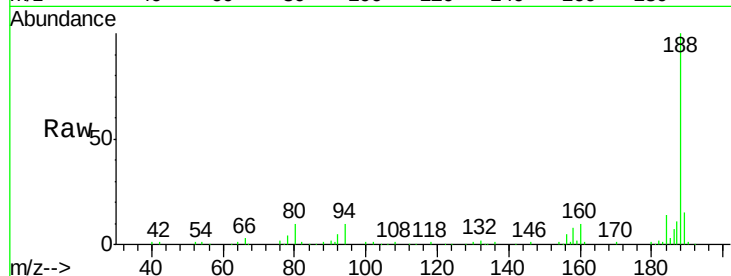




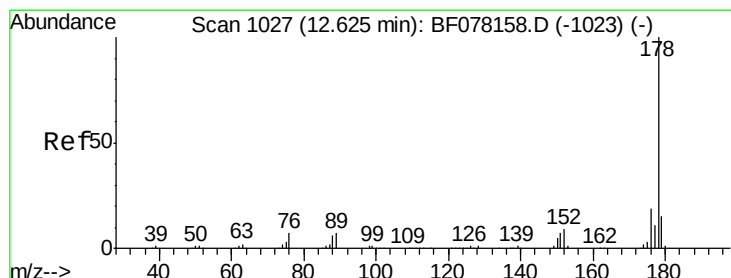
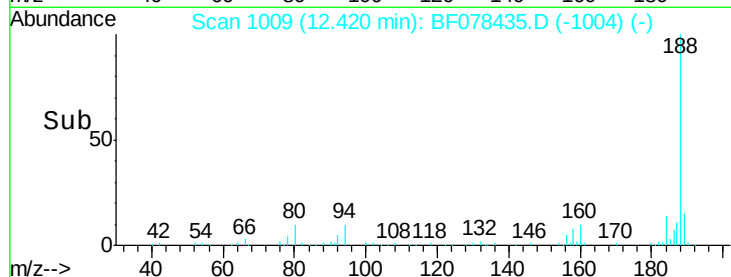
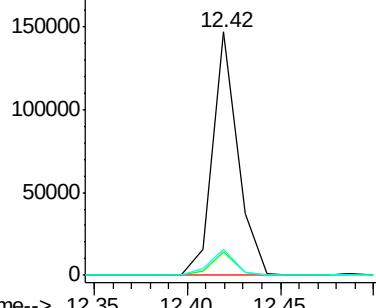
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.42 min Scan# 1009
 Delta R.T. -0.05 min
 Lab File: BF078435.D
 Acq: 11 Apr 2015 10:49

Instrument :
 BNA_F
 ClientSampleId :
 SB-4DDL2

Tgt Ion	Ratio	Lower	Upper
188	100		
94	9.9	9.0	13.4
80	10.4	9.5	14.3

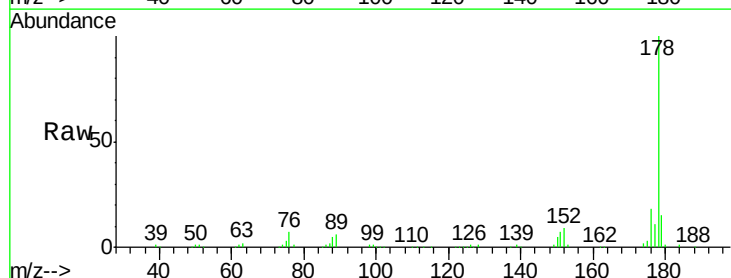


Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

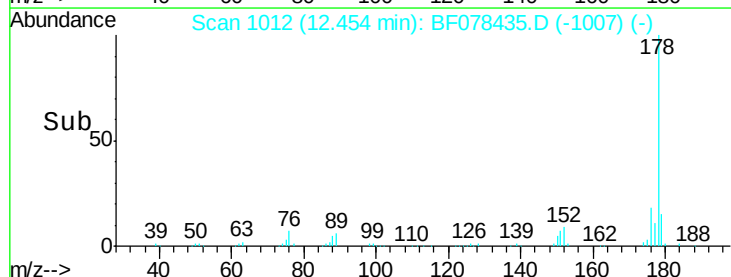
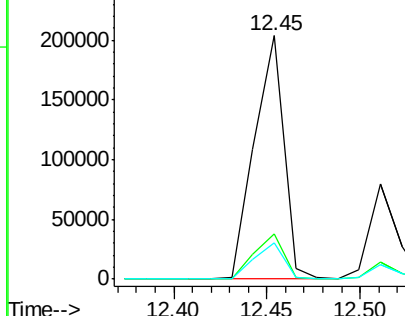


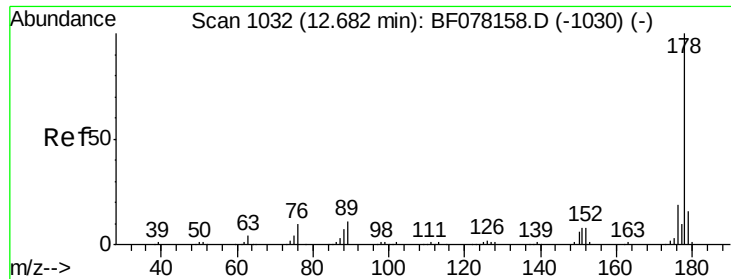
#70
 Phenanthrene
 Concen: 27.87 ng
 RT: 12.45 min Scan# 1012
 Delta R.T. -0.05 min
 Lab File: BF078435.D
 Acq: 11 Apr 2015 10:49

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.3	15.4	23.0
179	14.8	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

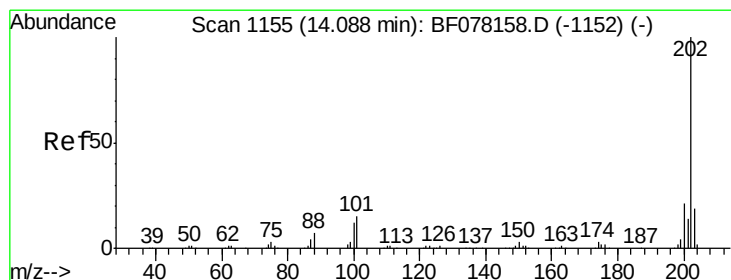
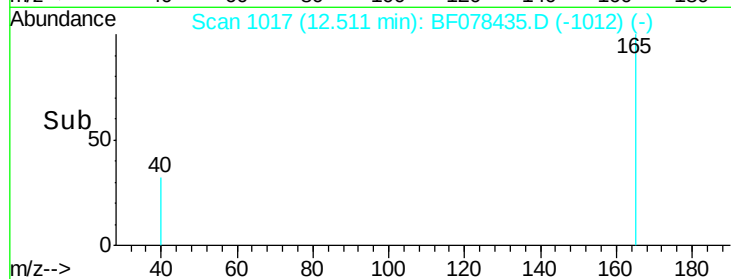
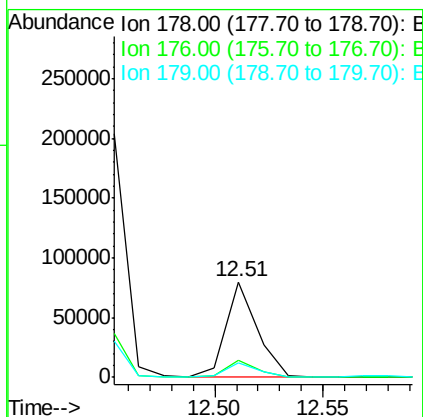
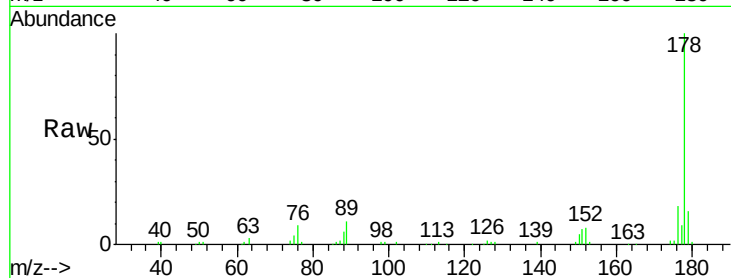




#71
 Anthracene
 Concen: 9.89 ng
 RT: 12.51 min Scan# 1017
 Delta R.T. -0.05 min
 Lab File: BF078435.D
 Acq: 11 Apr 2015 10:49

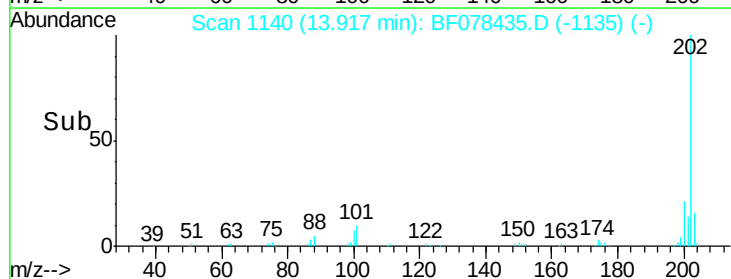
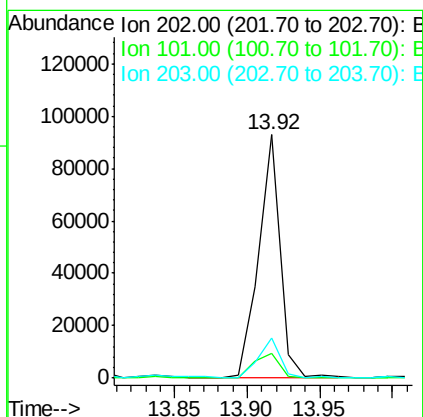
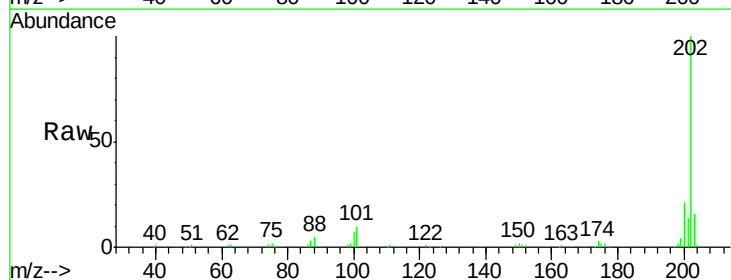
Instrument :
 BNA_F
 ClientSampleId :
 SB-4DDL2

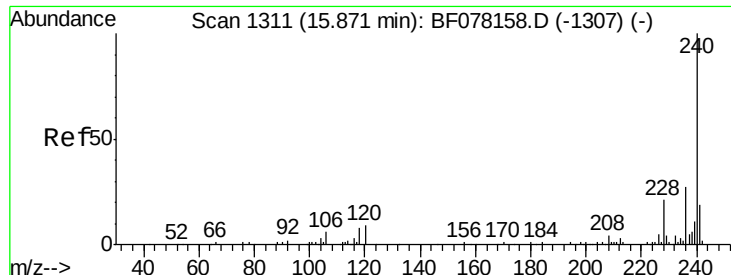
Tgt Ion:178 Resp: 77863
 Ion Ratio Lower Upper
 178 100
 176 17.8 14.8 22.2
 179 15.6 12.4 18.6



#74
 Fluoranthene
 Concen: 11.46 ng
 RT: 13.92 min Scan# 1140
 Delta R.T. -0.05 min
 Lab File: BF078435.D
 Acq: 11 Apr 2015 10:49

Tgt Ion:202 Resp: 96550
 Ion Ratio Lower Upper
 202 100
 101 10.2 0.0 35.2
 203 16.4 0.0 38.5

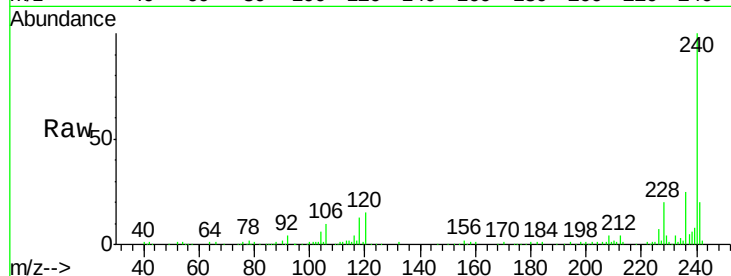




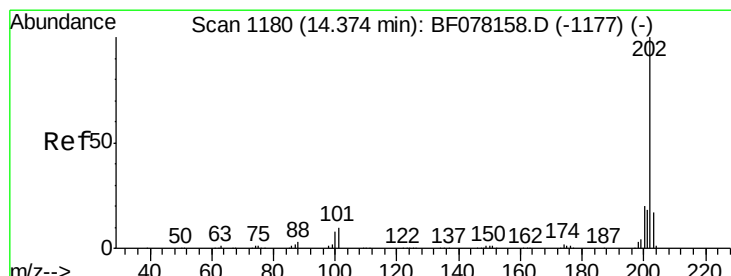
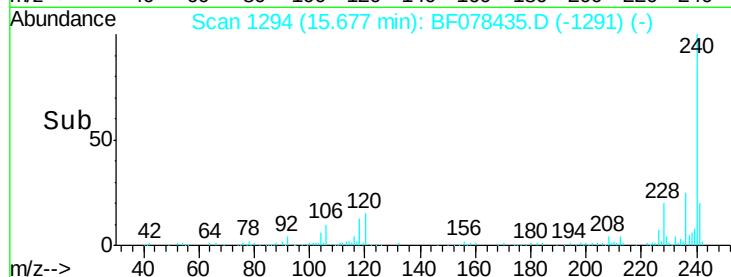
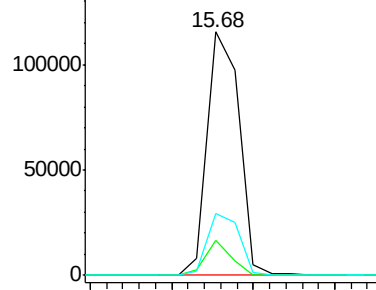
#75
 Chrysene-d12
 Concen: 20.00 ng
 RT: 15.68 min Scan# 1294
 Delta R.T. -0.07 min
 Lab File: BF078435.D
 Acq: 11 Apr 2015 10:49

Instrument :
 BNA_F
 ClientSampleId :
 SB-4DDL2

Tgt Ion:240 Resp: 156124
 Ion Ratio Lower Upper
 240 100
 120 14.6 7.1 10.7#
 236 25.3 21.4 32.2

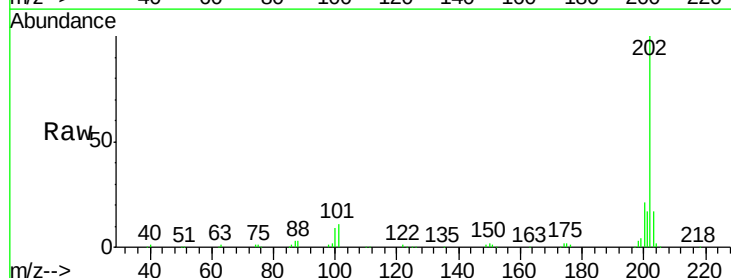


Abundance Ion 240.00 (239.70 to 240.70): E
 Ion 120.00 (119.70 to 120.70): E
 Ion 236.00 (235.70 to 236.70): E

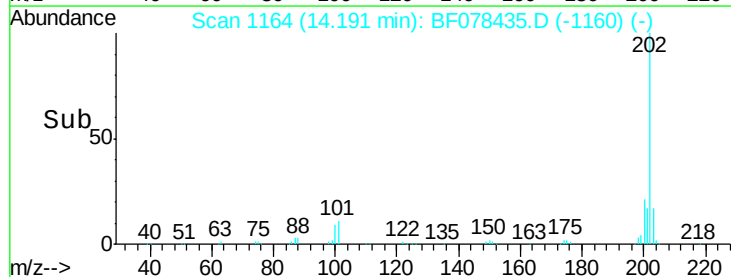
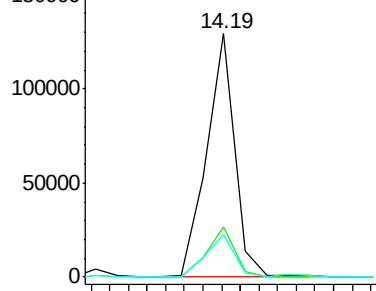


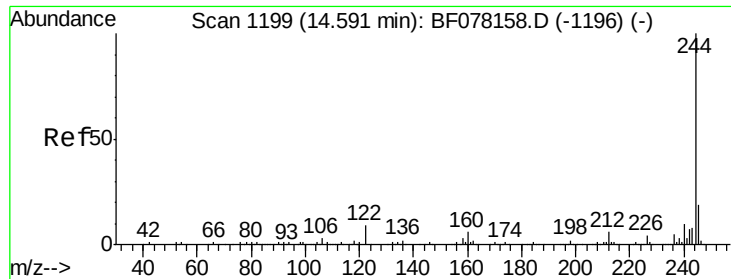
#77
 Pyrene
 Concen: 13.97 ng
 RT: 14.19 min Scan# 1164
 Delta R.T. -0.06 min
 Lab File: BF078435.D
 Acq: 11 Apr 2015 10:49

Tgt Ion:202 Resp: 136888
 Ion Ratio Lower Upper
 202 100
 200 20.5 16.3 24.5
 203 17.3 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: 0.37 ng

RT: 14.41 min Scan# 1183

Delta R.T. -0.06 min

Lab File: BF078435.D

Acq: 11 Apr 2015 10:49

Instrument :

BNA_F

ClientSampleId :

SB-4DDL2

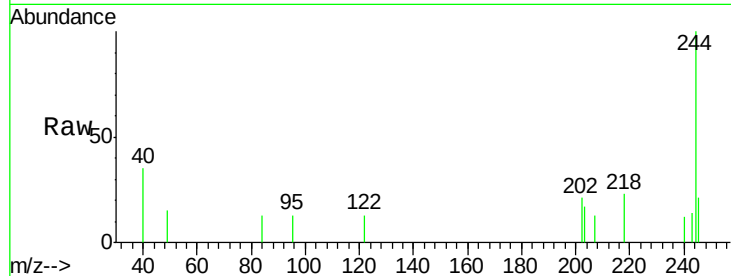
Tgt Ion:244 Resp: 2572

Ion Ratio Lower Upper

244 100

212 0.0 5.0 7.4#

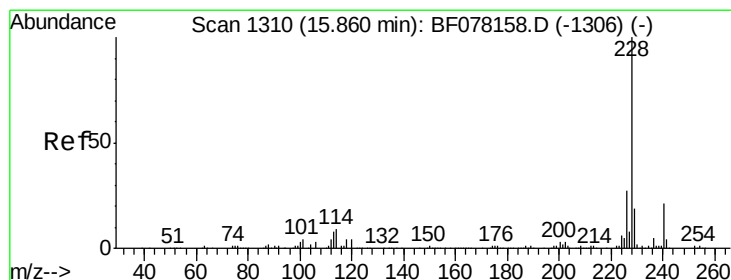
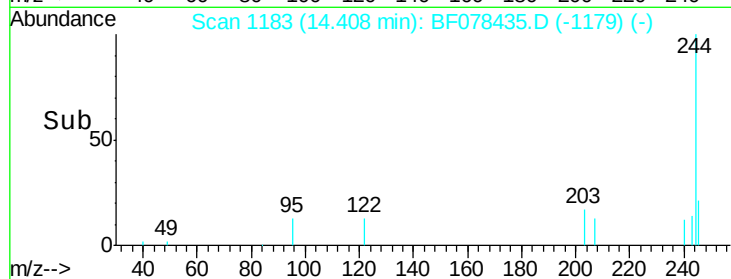
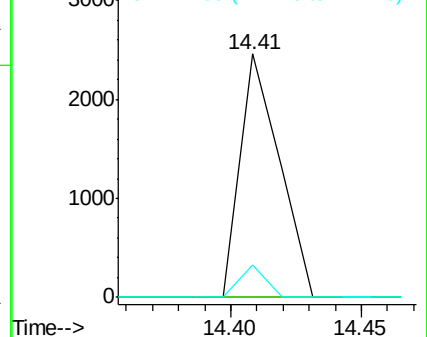
122 13.5 7.1 10.7#



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: 2.68 ng

RT: 15.71 min Scan# 1297

Delta R.T. -0.02 min

Lab File: BF078435.D

Acq: 11 Apr 2015 10:49

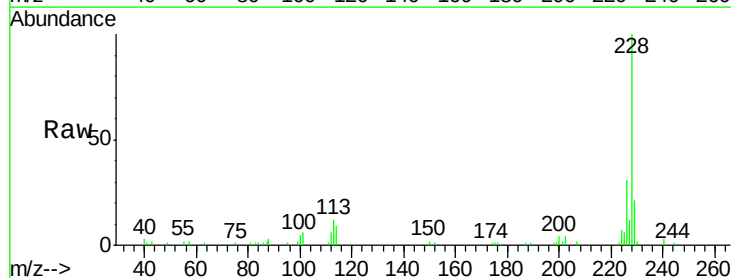
Tgt Ion:228 Resp: 24871

Ion Ratio Lower Upper

228 100

226 30.6 21.3 31.9

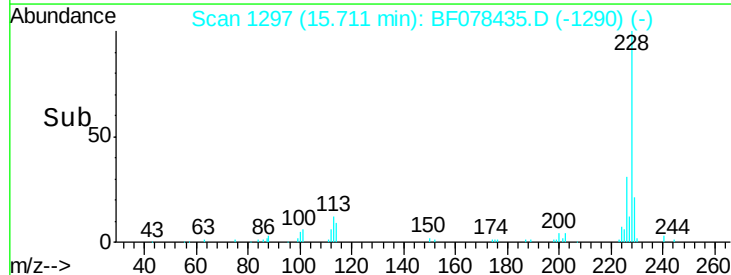
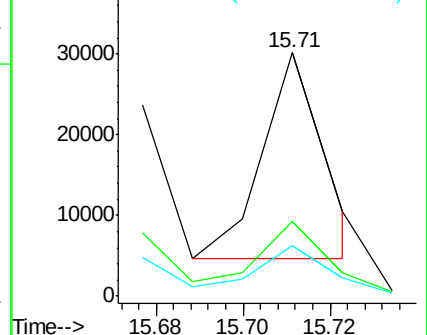
229 20.6 15.4 23.2

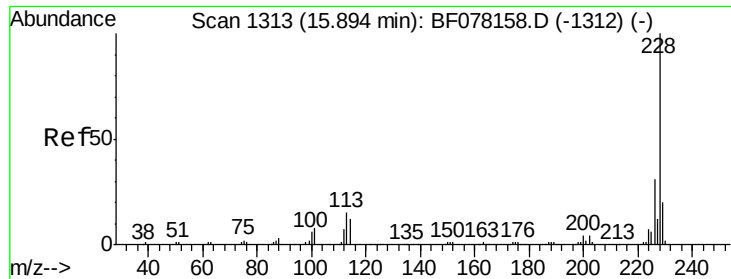


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 3.92 ng

RT: 15.71 min Scan# 1297

Delta R.T. -0.06 min

Lab File: BF078435.D

Acq: 11 Apr 2015 10:49

Instrument :

BNA_F

ClientSampleId :

SB-4DDL2

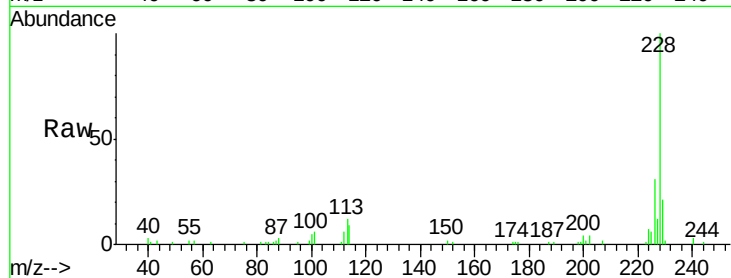
Tgt Ion:228 Resp: 34227

Ion Ratio Lower Upper

228 100

226 30.6 24.2 36.4

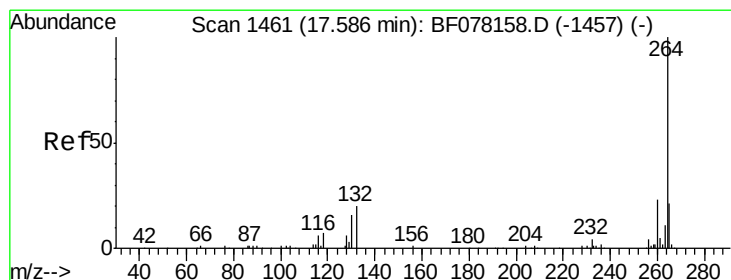
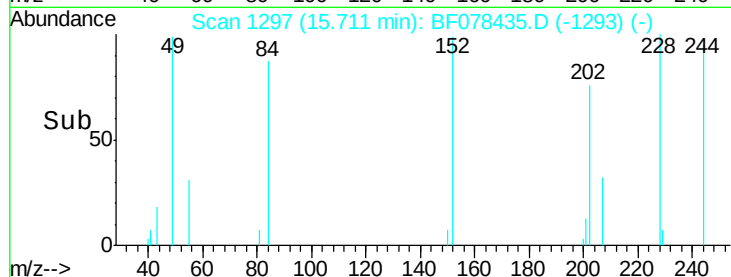
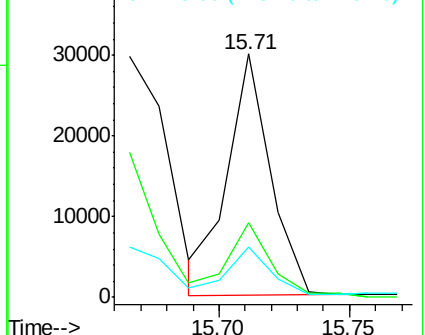
229 20.6 15.8 23.8



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 17.38 min Scan# 1443

Delta R.T. -0.08 min

Lab File: BF078435.D

Acq: 11 Apr 2015 10:49

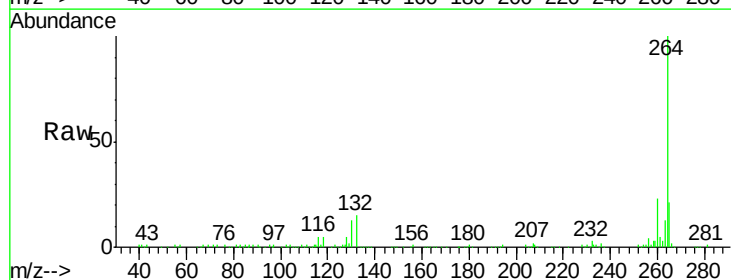
Tgt Ion:264 Resp: 151067

Ion Ratio Lower Upper

264 100

260 23.0 18.6 27.8

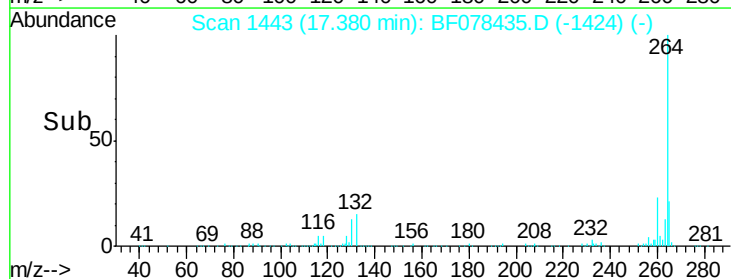
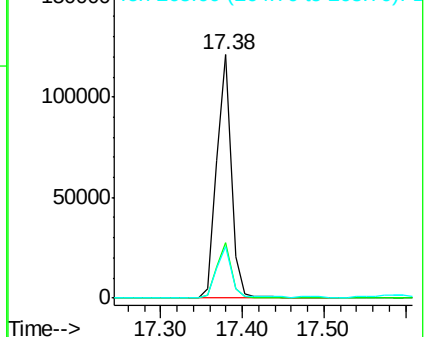
265 21.1 17.0 25.6

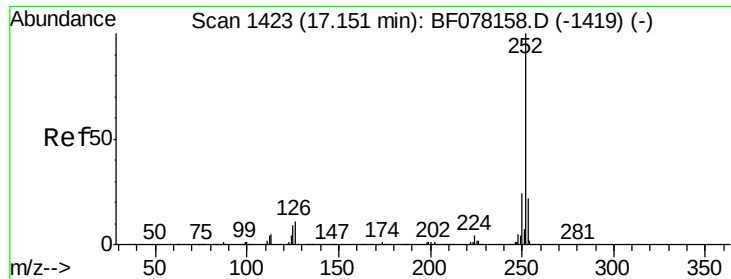


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

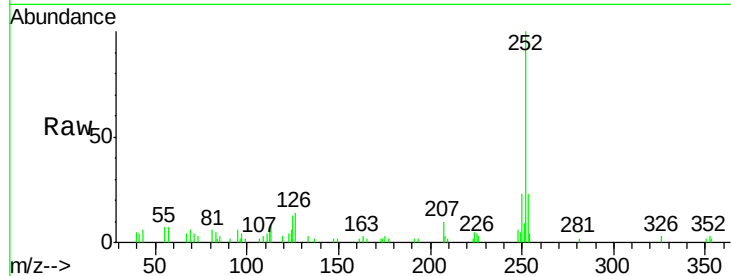




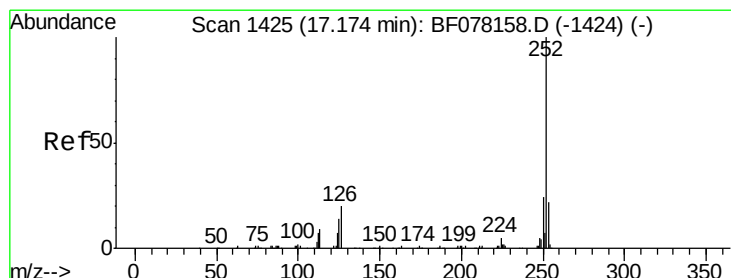
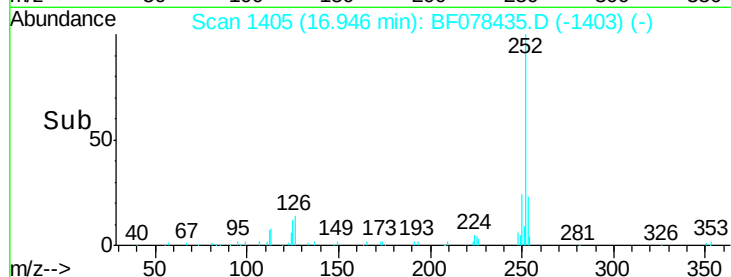
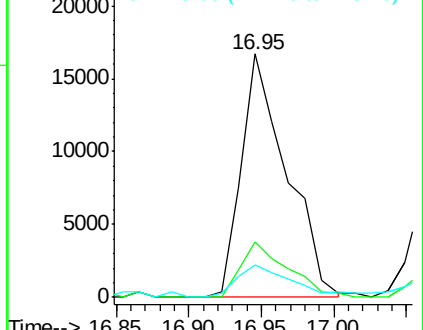
#87
Benzo(b)fluoranthene
Concen: 3.88 ng
RT: 16.95 min Scan# 1405
Delta R.T. -0.08 min
Lab File: BF078435.D
Acq: 11 Apr 2015 10:49

Instrument :
BNA_F
ClientSampleId :
SB-4DDL2

Tgt Ion: 252 Resp: 36219
Ion Ratio Lower Upper
252 100
253 22.5 17.2 25.8
125 13.3 7.0 10.4#

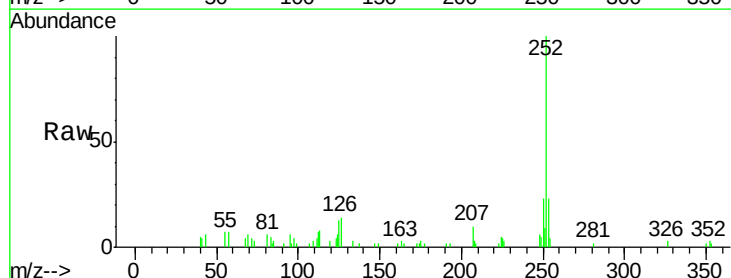


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

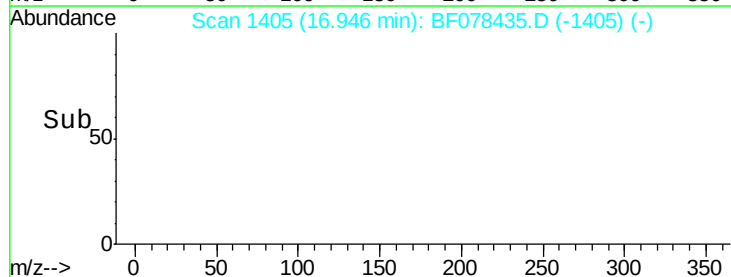
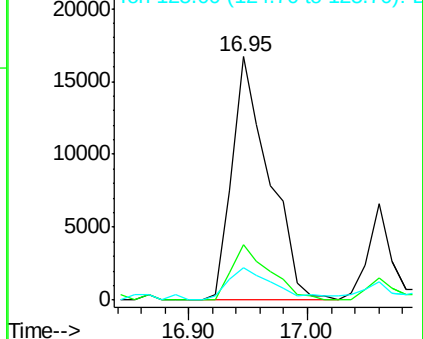


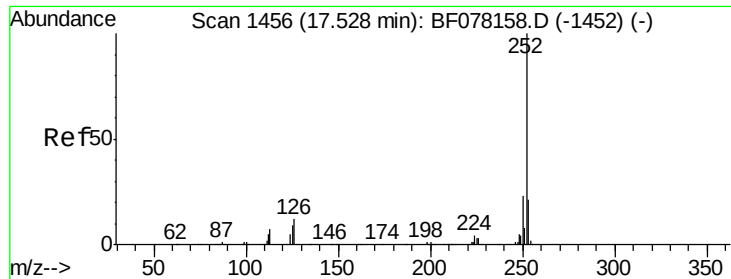
#88
Benzo(k)fluoranthene
Concen: 4.39 ng
RT: 16.95 min Scan# 1405
Delta R.T. -0.10 min
Lab File: BF078435.D
Acq: 11 Apr 2015 10:49

Tgt Ion: 252 Resp: 36428
Ion Ratio Lower Upper
252 100
253 22.5 17.5 26.3
125 13.3 11.6 17.4



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





#89

Benzo(a)pyrene

Concen: 3.96 ng

RT: 17.31 min Scan# 1437

Delta R.T. -0.09 min

Lab File: BF078435.D

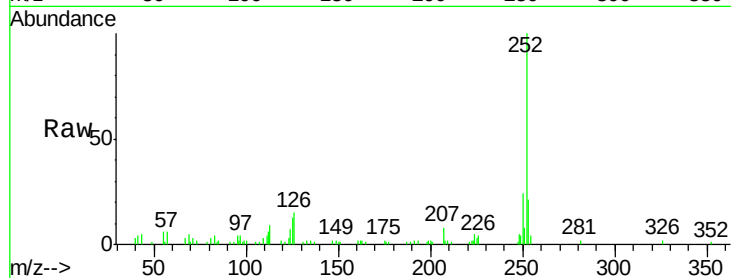
Acq: 11 Apr 2015 10:49

Instrument :

BNA_F

ClientSampleId :

SB-4DDL2



Tgt Ion:	252	Resp:	32259
Ion	Ratio	Lower	Upper
252	100		
253	20.9	16.8	25.2
125	12.7	7.4	11.0

