

Data Path : Z:\HPCHEM1\BNA F\DATA\BF051415\
 Data File : BF079247.D
 Acq On : 14 May 2015 22:39
 Operator : TP/IZ
 Sample : G2215-10 2X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-38D

Quant Time: May 15 03:44:27 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 15 02:17:41 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.22	152	38852	20.00	ng	0.00
21) Naphthalene-d8	8.79	136	165880	20.00	ng	-0.01
38) Acenaphthene-d10	10.97	164	80867	20.00	ng	0.00
63) Phenanthrene-d10	12.81	188	164765	20.00	ng	0.00
75) Chrysene-d12	16.10	240	186116	20.00	ng	-0.14
86) Perylene-d12	17.86	264	210099	20.00	ng	-0.43

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.51	112	148087m	65.61	ng	0.00
7) Phenol-d6	6.79	99	185353	62.13	ng	0.00
23) Nitrobenzene-d5	7.91	82	102545	35.53	ng	0.00
41) 2,4,6-Tribromophenol	11.95	330	48165	55.06	ng	0.00
44) 2-Fluorobiphenyl	10.14	172	167703	28.89	ng	-0.01
78) Terphenyl-d14	14.81	244	183532m	23.61	ng	-0.02

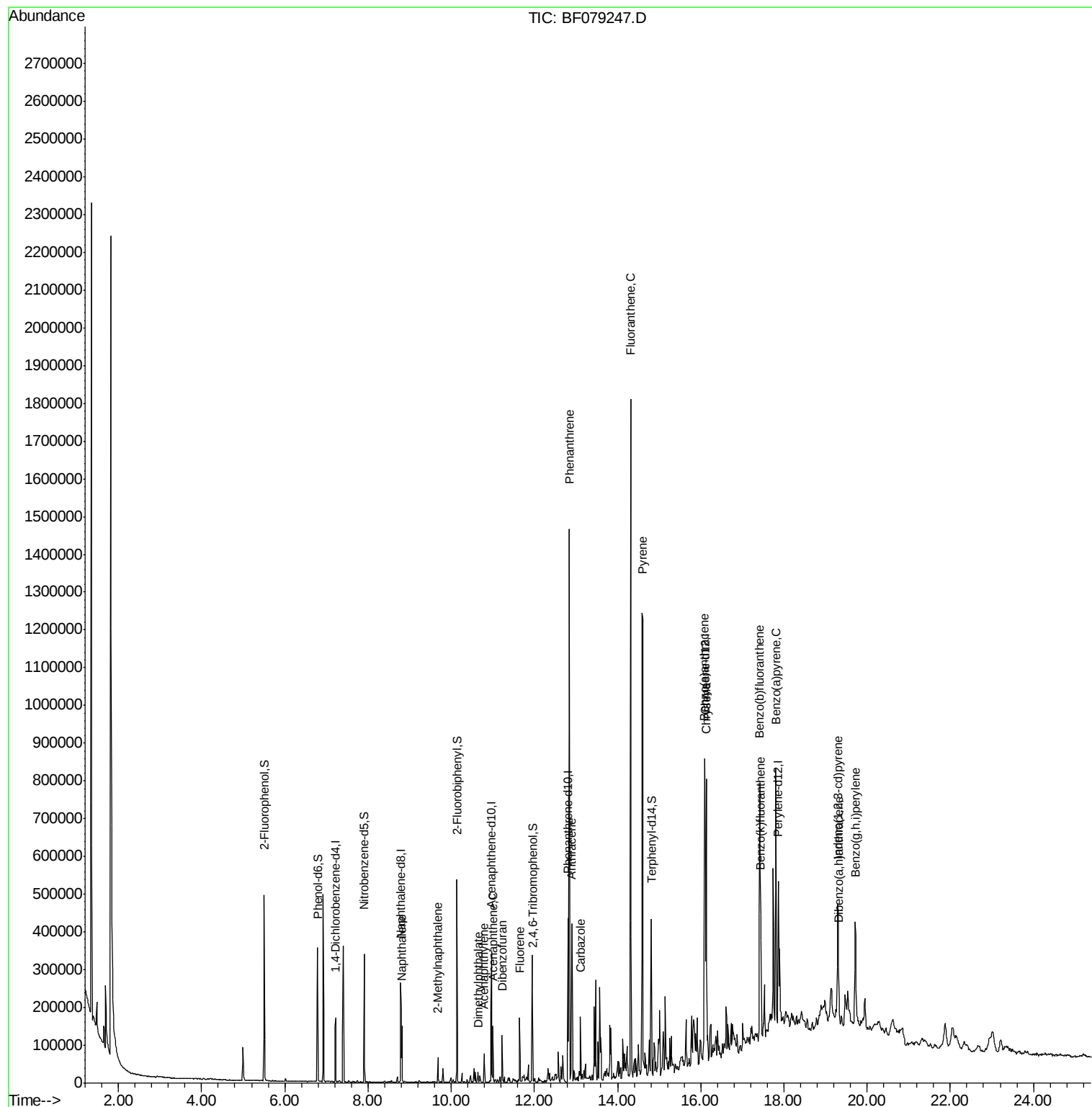
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.82	128	75128	9.51	ng	98
37) 2-Methylnaphthalene	9.68	142	19354	3.53	ng	96
48) Acenaphthylene	10.79	152	42141	5.12	ng	98
49) Dimethylphthalate	10.65	163	15544	2.62	ng	97
51) Acenaphthene	11.00	154	34024	6.93	ng	99
54) Dibenzofuran	11.22	168	49171	6.93	ng	94
57) Fluorene	11.65	166	50409	8.66	ng	99
70) Phenanthrene	12.85	178	719915	78.10	ng	100
71) Anthracene	12.90	178	173495	19.19	ng	98
72) Carbazole	13.11	167	70183	8.14	ng	98
74) Fluoranthene	14.32	202	759881	79.11	ng	99
77) Pvrene	14.61	202	733613m	68.40	ng	
80) Benzo(a)anthracene	16.09	228	368423	36.15	ng	96
82) Chrysene	16.14	228	314493	32.08	ng	98
85) Indeno(1,2,3-cd)pyrene	19.29	276	232743m	18.63	ng	
87) Benzo(b)fluoranthene	17.42	252	471002m	40.96	ng	
88) Benzo(k)fluoranthene	17.44	252	93248m	8.38	ng	
89) Benzo(a)pyrene	17.81	252	323994	30.60	ng	99
90) Dibenzo(a,h)anthracene	19.31	278	51192m	4.55	ng	
91) Benzo(a,h,i)perylene	19.71	276	223681	19.83	ng	# 93

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

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.22 min Scan# 528

Delta R.T. 0.00 min

Lab File: BF079247.D

Acq: 14 May 2015 22:39

Instrument :

BNA_F

ClientSampleId :

SB-38D

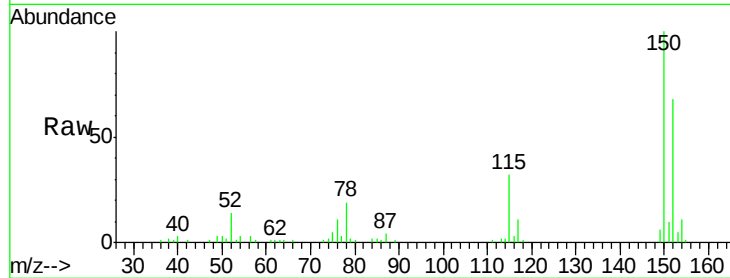
Tot Ion:152 Resp: 38852

Ion Ratio Lower Upper

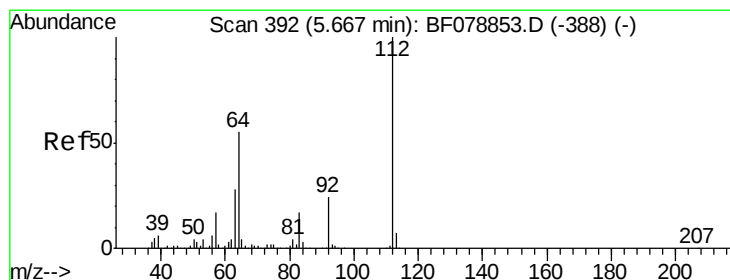
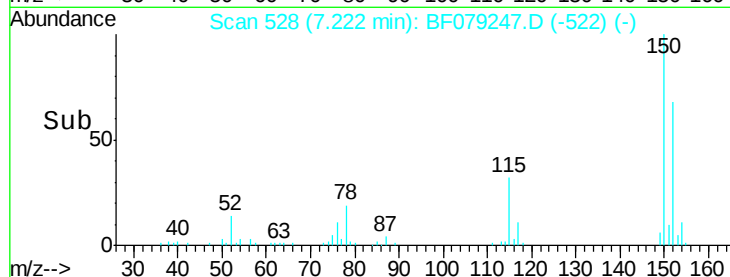
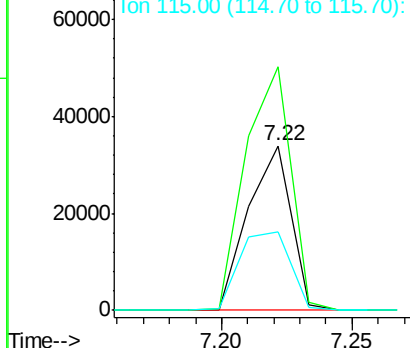
152 100

150 148.1 123.8 185.8

115 47.5 49.4 74.0#



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: 65.61 ng m

RT: 5.51 min Scan# 378

Delta R.T. 0.00 min

Lab File: BF079247.D

Acq: 14 May 2015 22:39

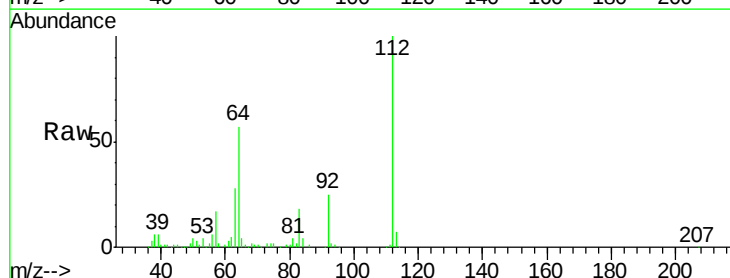
Tgt Ion:112 Resp: 148087

Ion Ratio Lower Upper

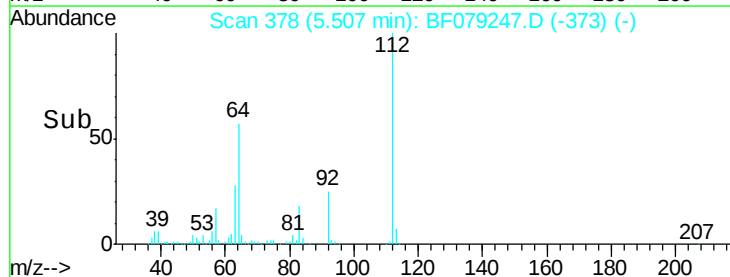
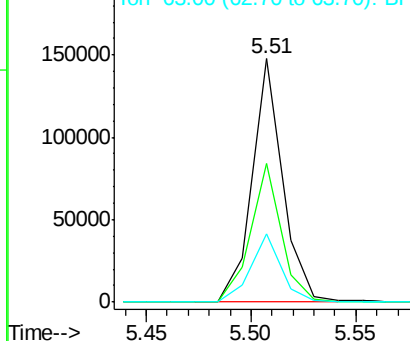
112 100

64 56.7 44.2 66.2

63 28.1 22.7 34.1



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: 62.13 ng

RT: 6.79 min Scan# 490

Delta R.T. 0.00 min

Lab File: BF079247.D

Acq: 14 May 2015 22:39

Instrument :

BNA_F

ClientSampleId :

SB-38D

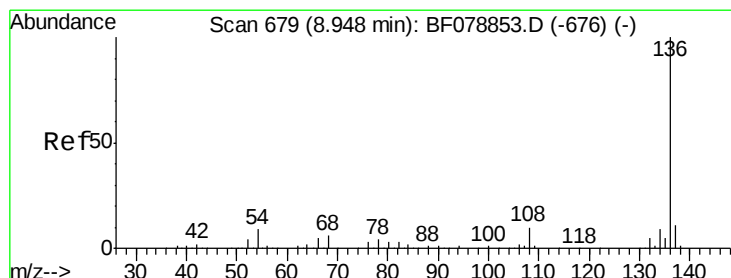
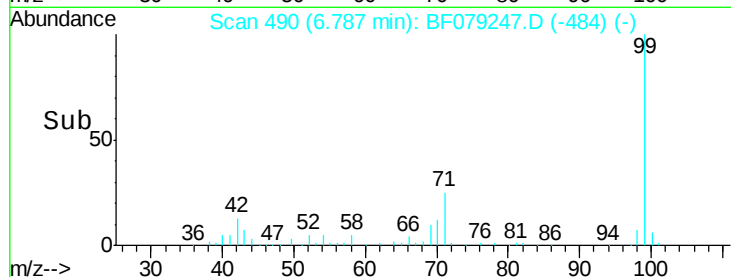
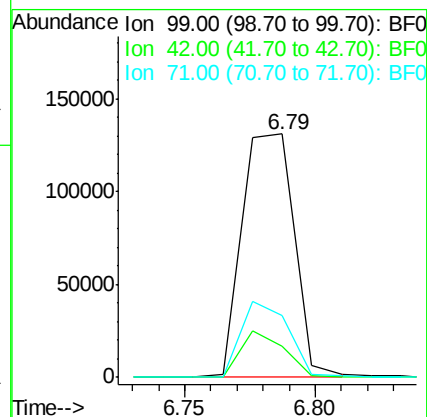
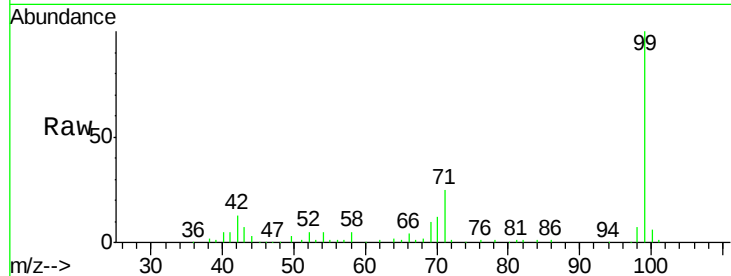
Tot Ion: 99 Resp: 185353

Ion Ratio Lower Upper

99 100

42 12.6 17.1 25.7#

71 25.2 26.3 39.5#



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.79 min Scan# 665

Delta R.T. -0.01 min

Lab File: BF079247.D

Acq: 14 May 2015 22:39

Tgt Ion: 136 Resp: 165880

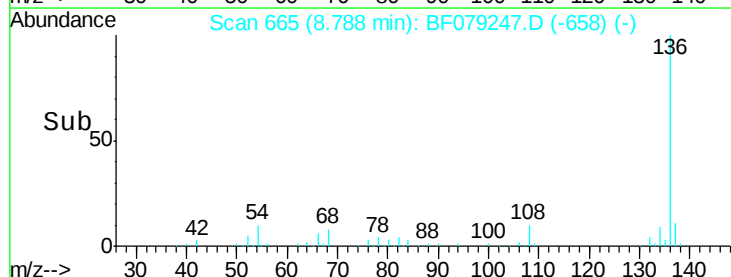
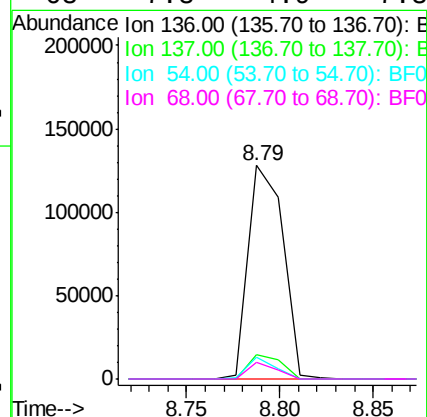
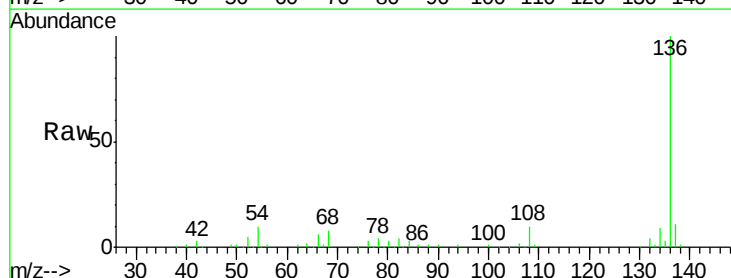
Ion Ratio Lower Upper

136 100

137 11.2 8.8 13.2

54 10.1 6.9 10.3

68 7.8 4.9 7.3#





#23

Nitrobenzene-d5

Concen: 35.53 ng

RT: 7.91 min Scan# 588

Delta R.T. 0.00 min

Lab File: BF079247.D

Acq: 14 May 2015 22:39

Instrument :

BNA_F

ClientSampleId :

SB-38D

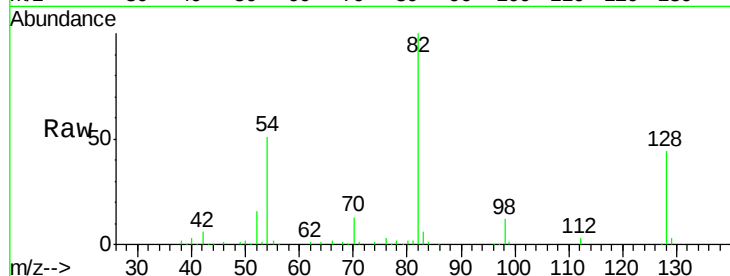
Tot Ion: 82 Resp: 102545

Ion Ratio Lower Upper

82 100

128 44.0 29.7 44.5

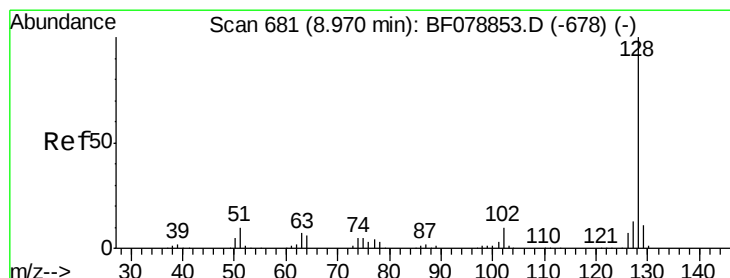
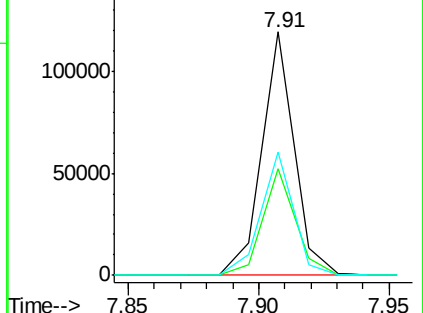
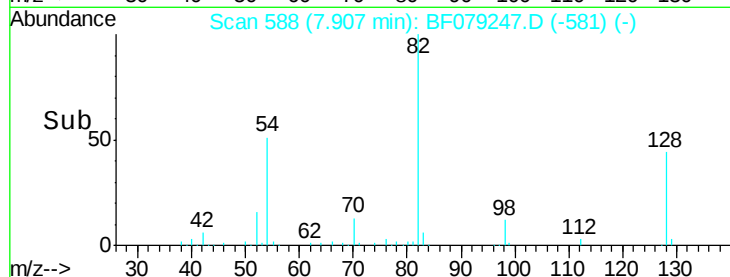
54 50.7 46.2 69.4



Abundance Ion 82.00 (81.70 to 82.70): BF079247.D (-581) (-)

Ion 128.00 (127.70 to 128.70): BF079247.D (-581) (-)

Ion 54.00 (53.70 to 54.70): BF079247.D (-581) (-)



#31

Naphthalene

Concen: 9.51 ng

RT: 8.82 min Scan# 668

Delta R.T. 0.00 min

Lab File: BF079247.D

Acq: 14 May 2015 22:39

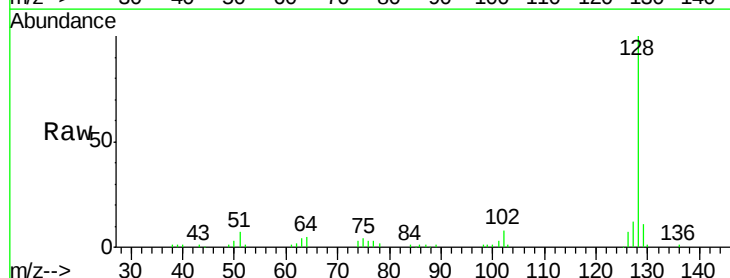
Tgt Ion: 128 Resp: 75128

Ion Ratio Lower Upper

128 100

129 11.1 9.2 13.8

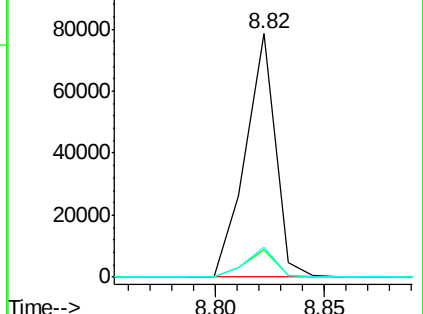
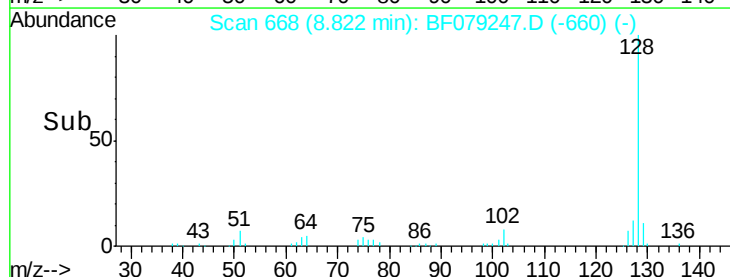
127 12.0 10.3 15.5

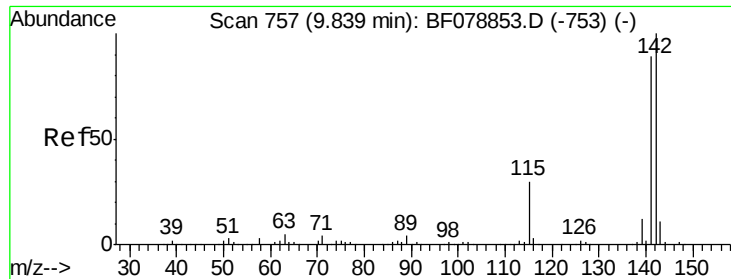


Abundance Ion 128.00 (127.70 to 128.70): BF079247.D (-660) (-)

Ion 129.00 (128.70 to 129.70): BF079247.D (-660) (-)

Ion 127.00 (126.70 to 127.70): BF079247.D (-660) (-)

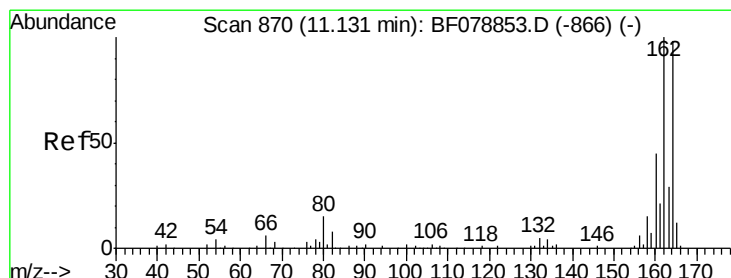
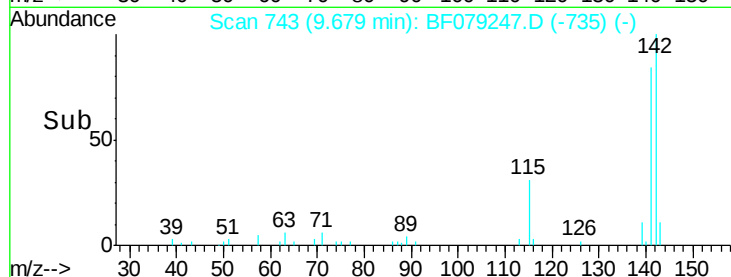
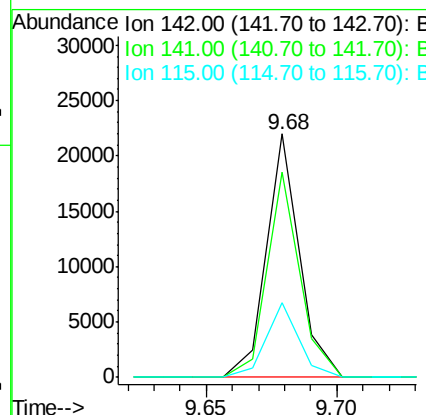
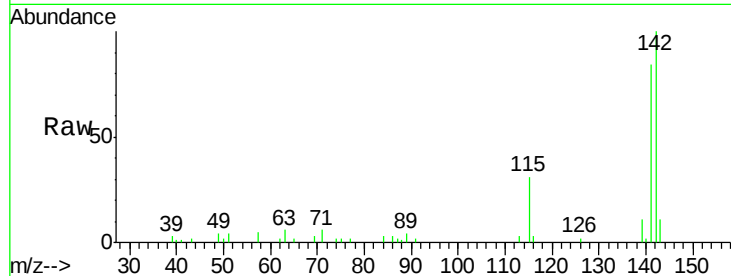




#37
 2-Methylnaphthalene
 Concen: 3.53 ng
 RT: 9.68 min Scan# 743
 Delta R.T. 0.00 min
 Lab File: BF079247.D
 Acq: 14 May 2015 22:39

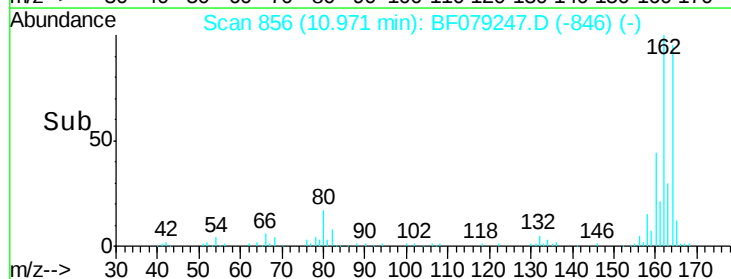
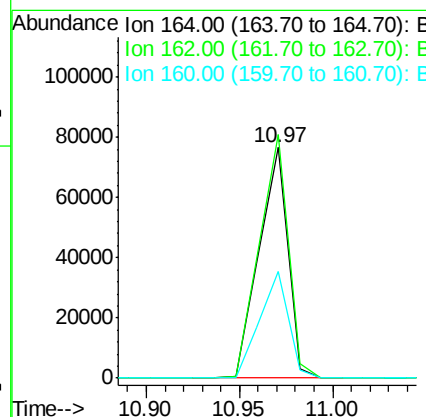
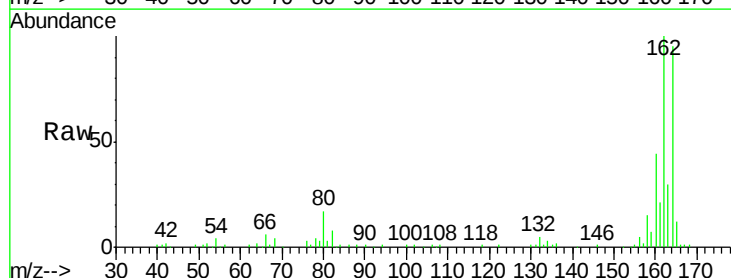
Instrument :
 BNA_F
 ClientSampleId :
 SB-38D

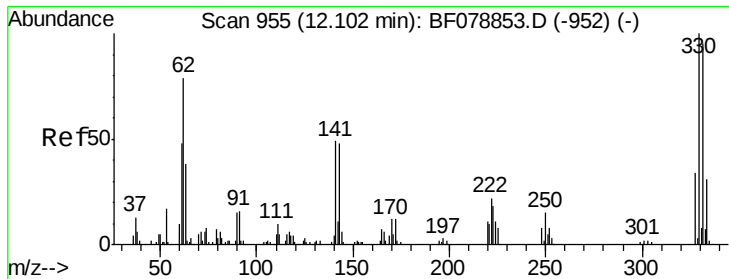
Tot Ion:142 Resp: 19354
 Ion Ratio Lower Upper
 142 100
 141 84.5 71.6 107.4
 115 30.6 24.2 36.4



#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 10.97 min Scan# 856
 Delta R.T. 0.00 min
 Lab File: BF079247.D
 Acq: 14 May 2015 22:39

Tgt Ion:164 Resp: 80867
 Ion Ratio Lower Upper
 164 100
 162 105.5 81.4 122.0
 160 46.4 36.6 54.8

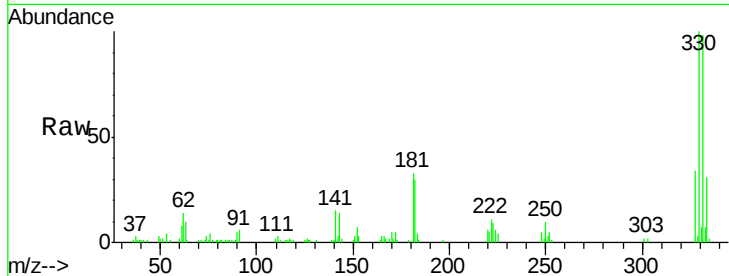




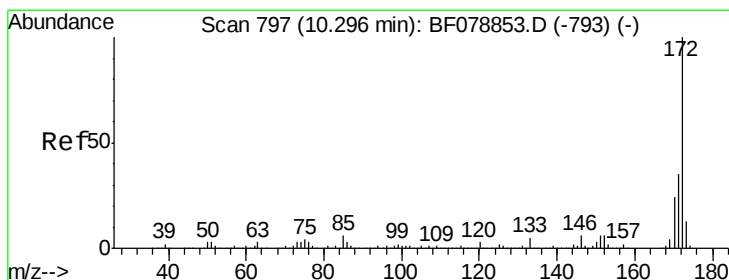
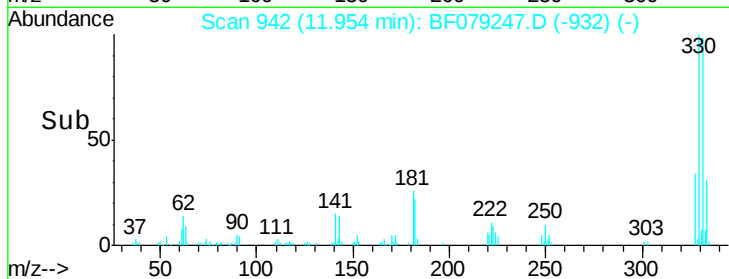
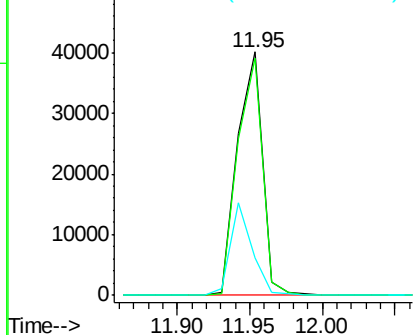
#41
 2,4,6-Tribromophenol
 Concen: 55.06 ng
 RT: 11.95 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: BF079247.D
 Acq: 14 May 2015 22:39

Instrument :
 BNA_F
 ClientSampled :
 SB-38D

Tot Ion:330 Resp: 48165
 Ion Ratio Lower Upper
 330 100
 332 96.9 76.9 115.3
 141 33.1 27.8 41.8

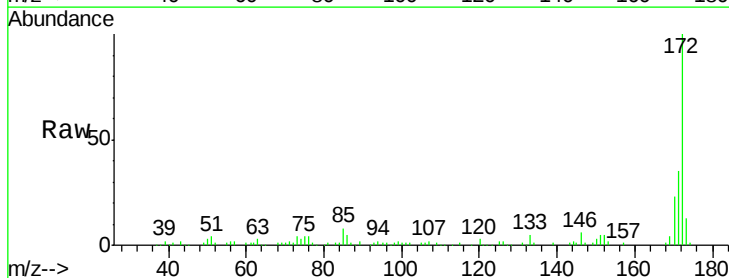


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

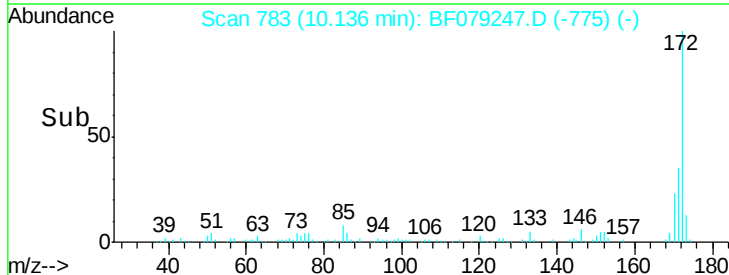
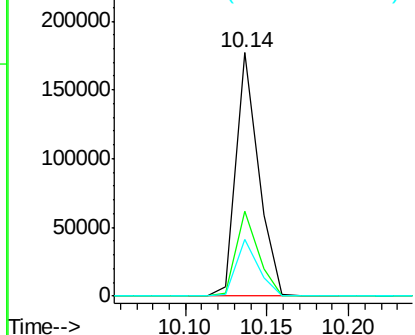


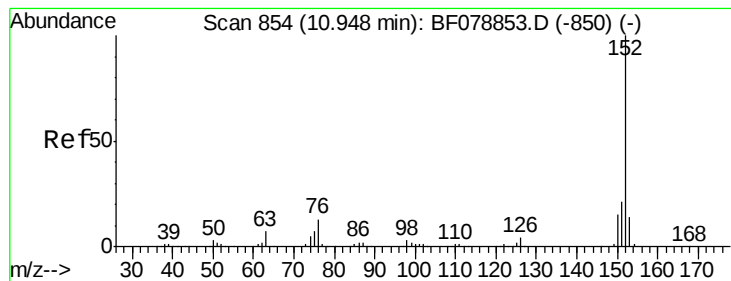
#44
 2-Fluorobiphenyl
 Concen: 28.89 ng
 RT: 10.14 min Scan# 783
 Delta R.T. -0.01 min
 Lab File: BF079247.D
 Acq: 14 May 2015 22:39

Tgt Ion:172 Resp: 167703
 Ion Ratio Lower Upper
 172 100
 171 35.0 28.3 42.5
 170 23.2 19.4 29.2



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





#48

Acenaphthylene

Concen: 5.12 ng

RT: 10.79 min Scan# 840

Delta R.T. -0.01 min

Lab File: BF079247.D

Acq: 14 May 2015 22:39

Instrument :

BNA_F

ClientSampleId :

SB-38D

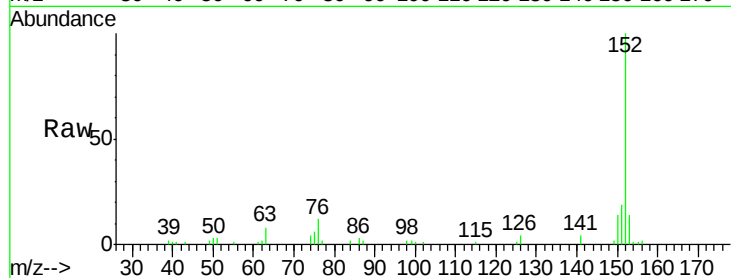
Tot Ion:152 Resp: 42141

Ion Ratio Lower Upper

152 100

151 19.4 16.6 24.8

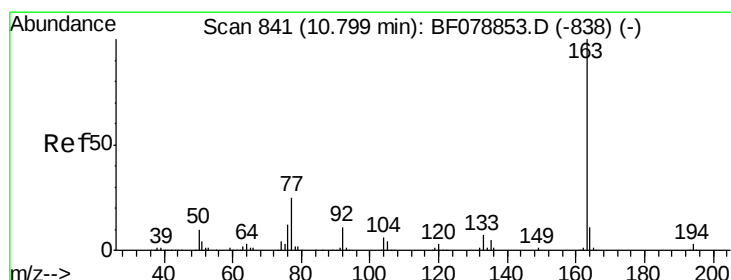
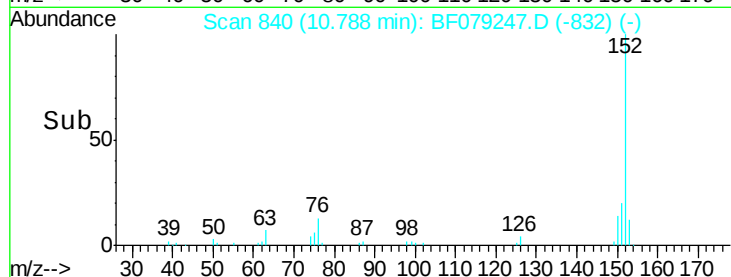
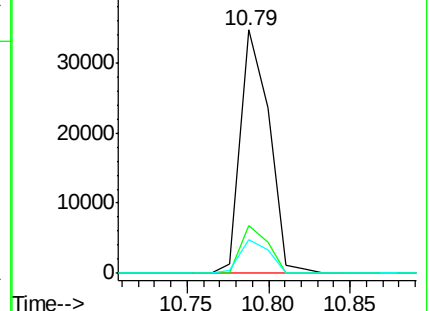
153 13.7 11.0 16.6



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#49

Dimethylphthalate

Concen: 2.62 ng

RT: 10.65 min Scan# 828

Delta R.T. 0.00 min

Lab File: BF079247.D

Acq: 14 May 2015 22:39

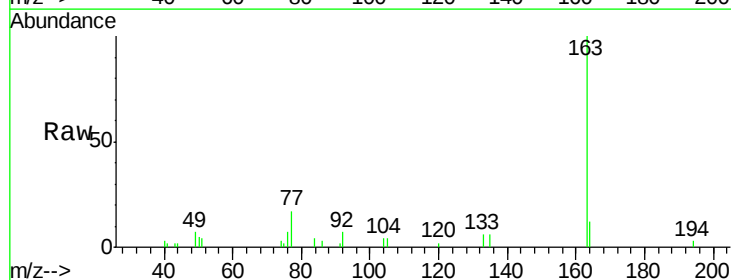
Tgt Ion:163 Resp: 15544

Ion Ratio Lower Upper

163 100

194 2.9 2.4 3.6

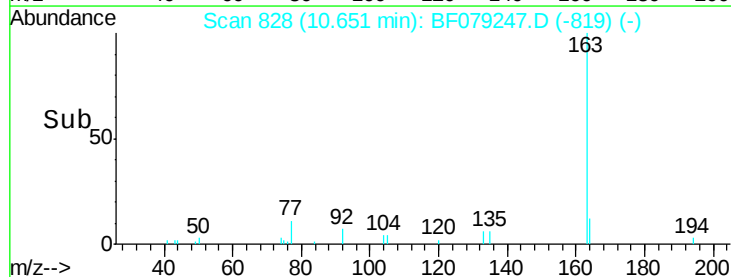
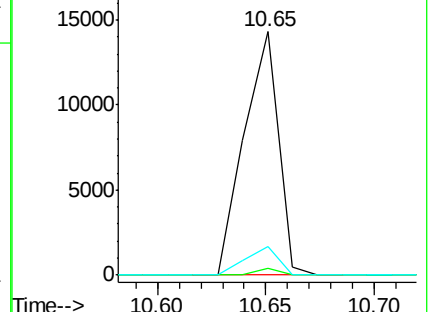
164 11.9 8.6 12.8

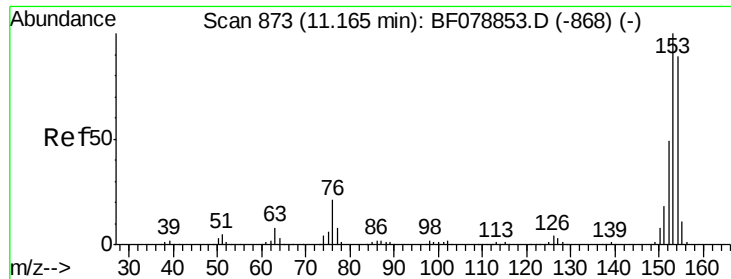


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

Acenaphthene

Concen: 6.93 ng

RT: 11.00 min Scan# 859

Delta R.T. -0.01 min

Lab File: BF079247.D

Acq: 14 May 2015 22:39

Instrument :

BNA_F

ClientSampleId :

SB-38D

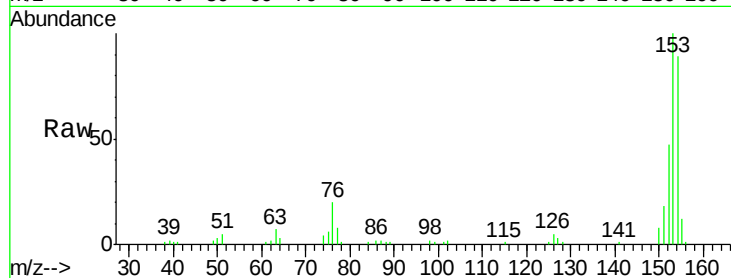
Tot Ion:154 Resp: 34024

Ion Ratio Lower Upper

154 100

153 112.2 90.2 135.2

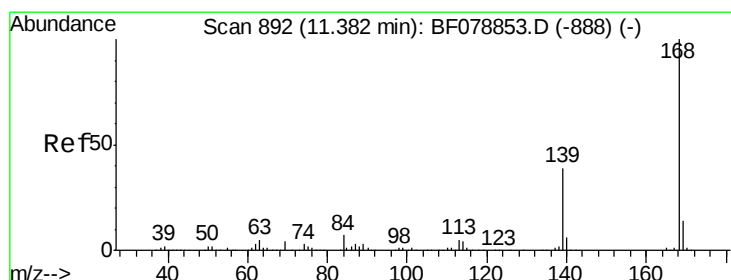
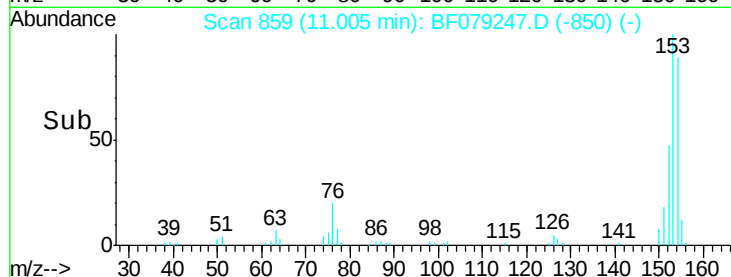
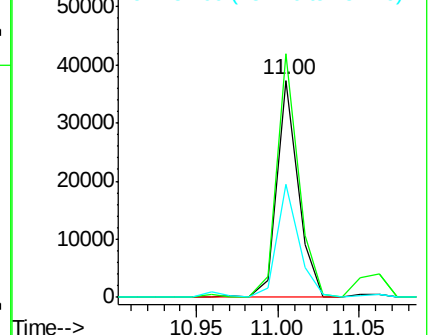
152 52.3 43.8 65.8



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

Dibenzofuran

Concen: 6.93 ng

RT: 11.22 min Scan# 878

Delta R.T. 0.00 min

Lab File: BF079247.D

Acq: 14 May 2015 22:39

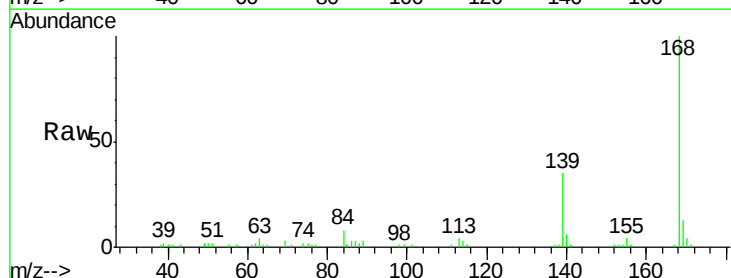
Tgt Ion:168 Resp: 49171

Ion Ratio Lower Upper

168 100

139 35.1 31.5 47.3

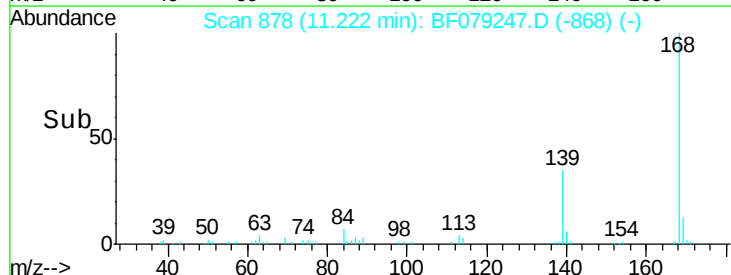
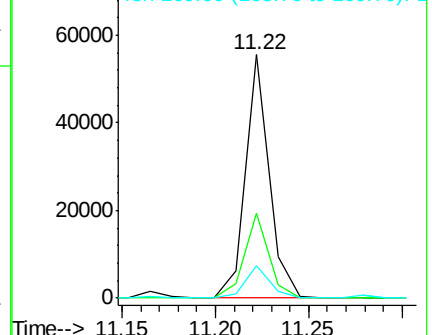
169 13.1 11.0 16.4

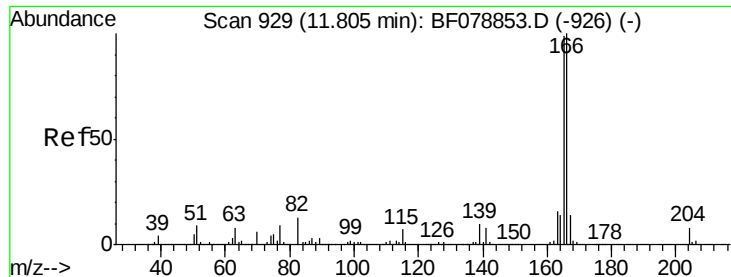


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

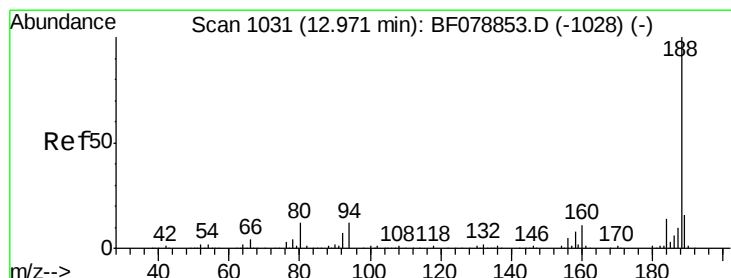
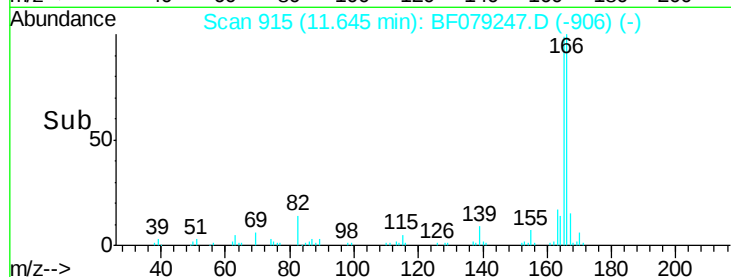
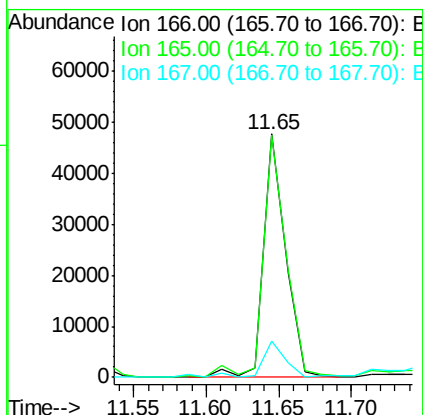
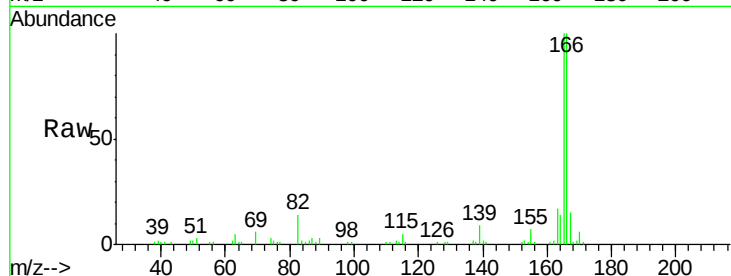




#57
Fluorene
 Concen: 8.66 ng
 RT: 11.65 min Scan# 915
 Delta R.T. -0.01 min
 Lab File: BF079247.D
 Acq: 14 May 2015 22:39

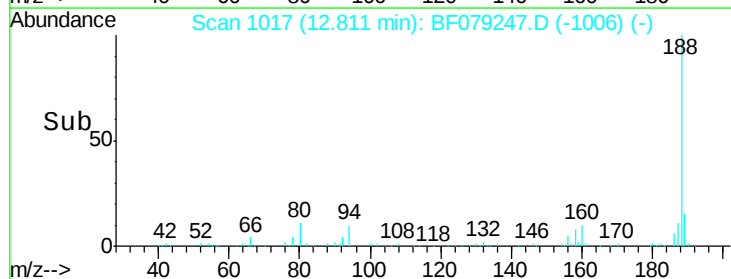
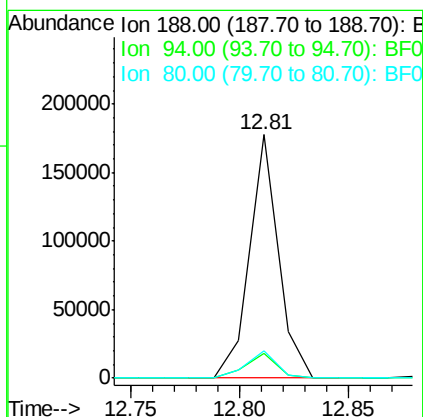
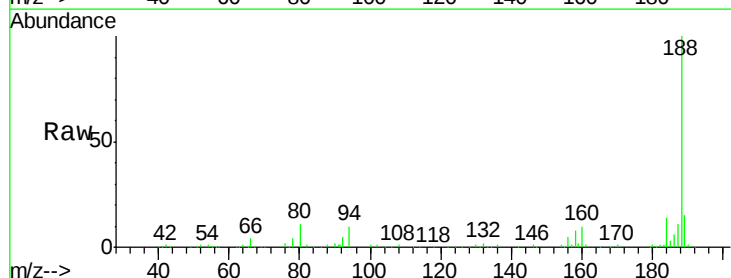
Instrument :
 BNA_F
 ClientSampleId :
 SB-38D

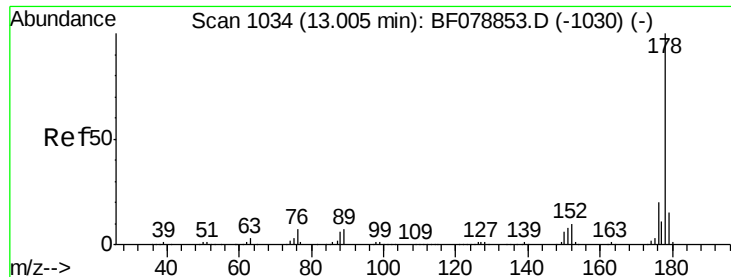
Tot Ion:166 Resp: 50409
 Ion Ratio Lower Upper
 166 100
 165 99.7 79.5 119.3
 167 15.0 11.0 16.6



#63
Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.81 min Scan# 1017
 Delta R.T. 0.00 min
 Lab File: BF079247.D
 Acq: 14 May 2015 22:39

Tgt Ion:188 Resp: 164765
 Ion Ratio Lower Upper
 188 100
 94 10.2 9.4 14.0
 80 11.0 9.8 14.6

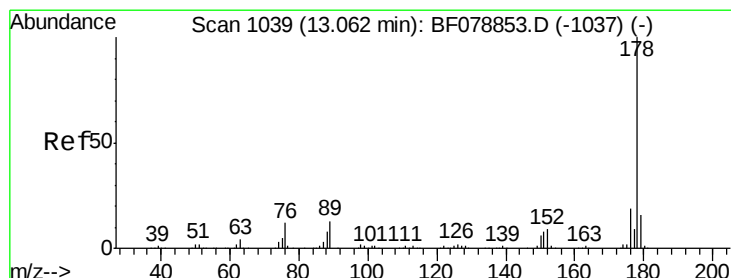
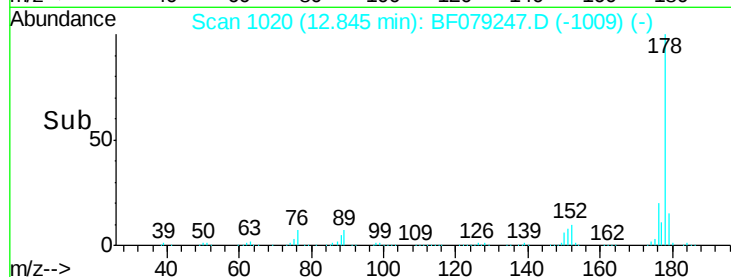
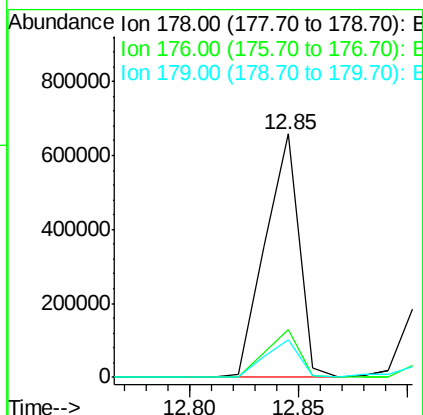
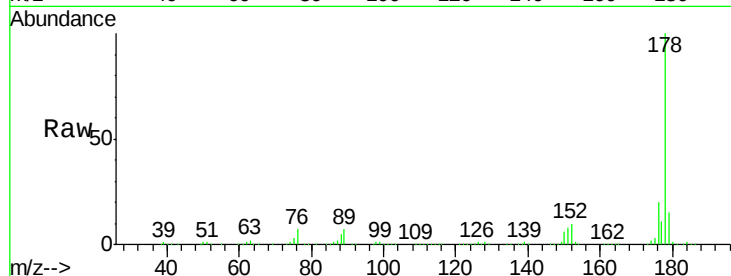




#70
Phenanthrene
Concen: 78.10 ng
RT: 12.85 min Scan# 1020
Delta R.T. 0.00 min
Lab File: BF079247.D
Acq: 14 May 2015 22:39

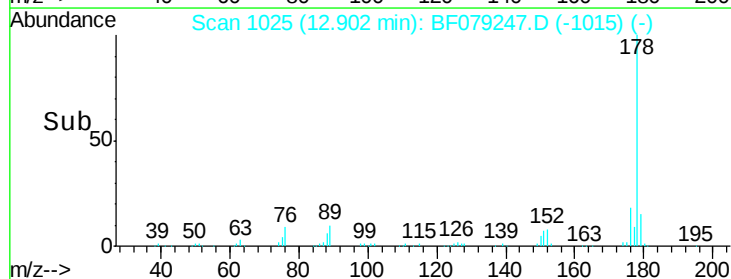
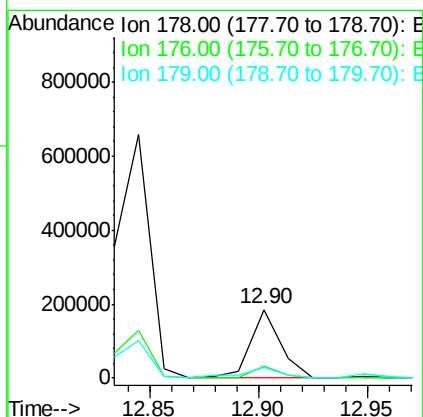
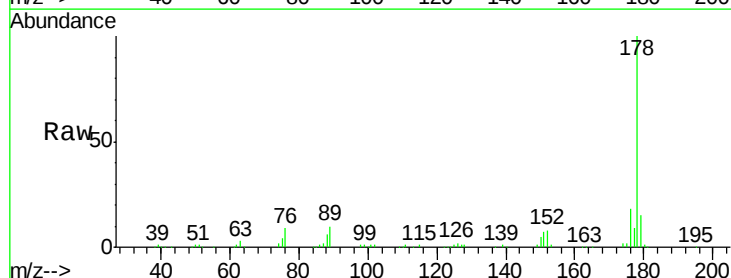
Instrument :
BNA_F
ClientSampleId :
SB-38D

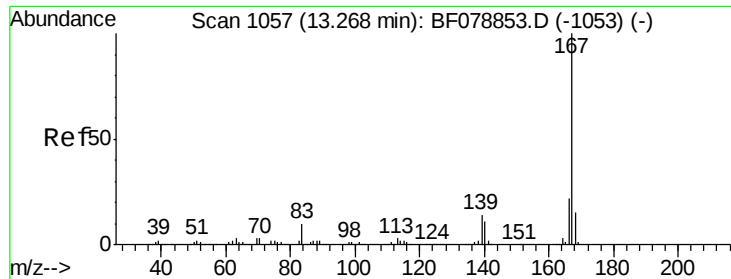
Tot Ion:178 Resp: 719915
Ion Ratio Lower Upper
178 100
176 19.8 15.9 23.9
179 15.3 12.2 18.4



#71
Anthracene
Concen: 19.19 ng
RT: 12.90 min Scan# 1025
Delta R.T. -0.01 min
Lab File: BF079247.D
Acq: 14 May 2015 22:39

Tgt Ion:178 Resp: 173495
Ion Ratio Lower Upper
178 100
176 18.1 15.3 22.9
179 14.8 12.6 19.0

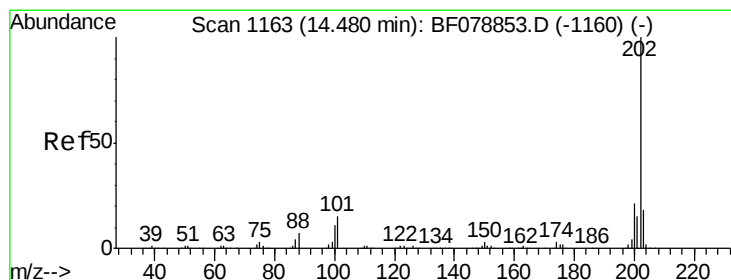
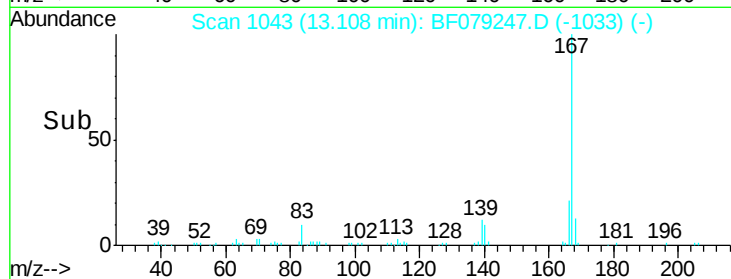
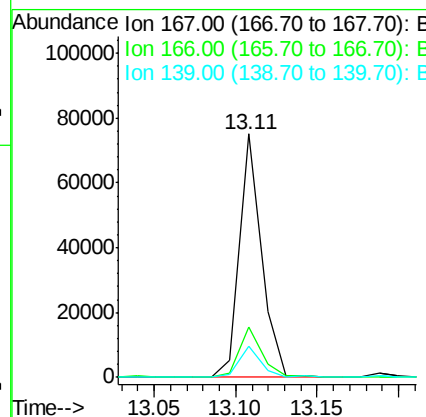
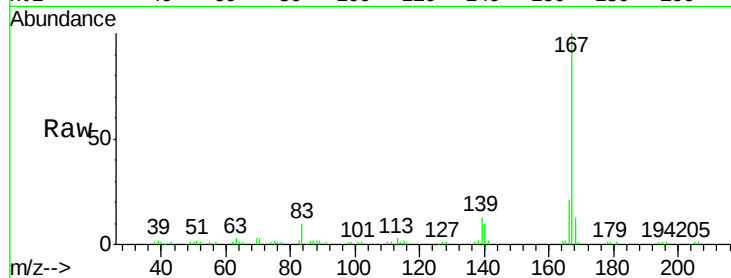




#72
 Carbazole
 Concen: 8.14 ng
 RT: 13.11 min Scan# 1043
 Delta R.T. -0.01 min
 Lab File: BF079247.D
 Acq: 14 May 2015 22:39

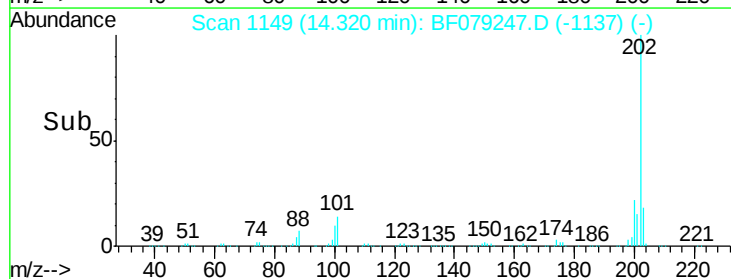
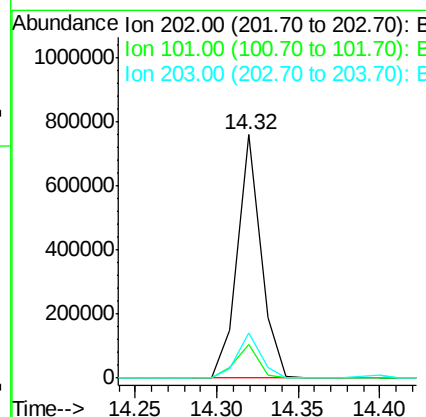
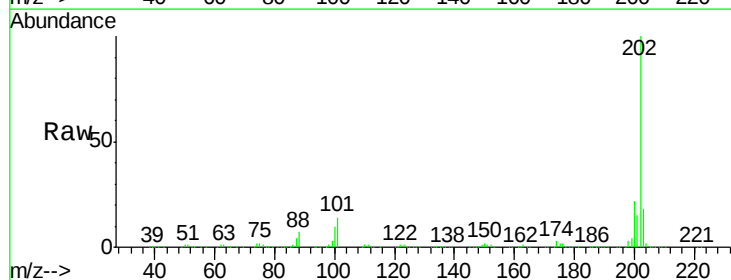
Instrument :
 BNA_F
 ClientSampleId :
 SB-38D

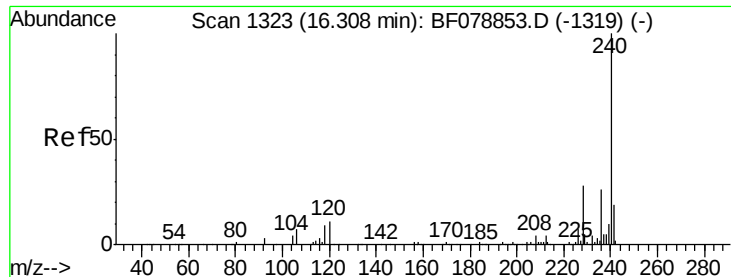
Tot Ion	Ratio	Lower	Upper
167	100		
166	20.9	17.5	26.3
139	13.0	11.0	16.4



#74
 Fluoranthene
 Concen: 79.11 ng
 RT: 14.32 min Scan# 1149
 Delta R.T. -0.01 min
 Lab File: BF079247.D
 Acq: 14 May 2015 22:39

Tgt Ion	Ratio	Lower	Upper
202	100		
101	14.1	0.0	34.7
203	18.4	0.0	37.9





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.10 min Scan# 1305

Delta R.T. -0.14 min

Lab File: BF079247.D

Acq: 14 May 2015 22:39

Instrument :

BNA_F

ClientSampleId :

SB-38D

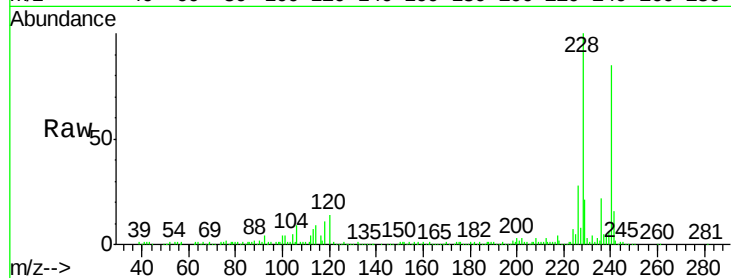
Tot Ion:240 Resp: 186116

Ion Ratio Lower Upper

240 100

120 16.5 8.6 12.8#

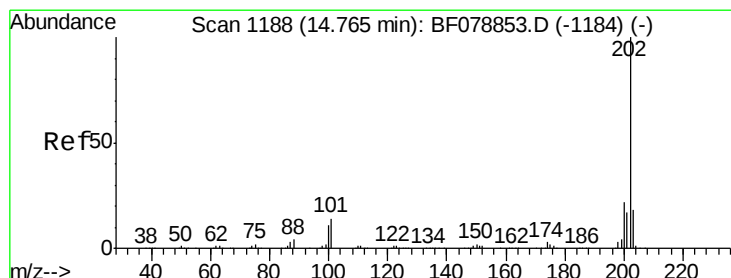
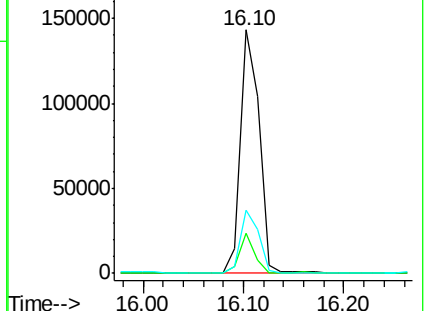
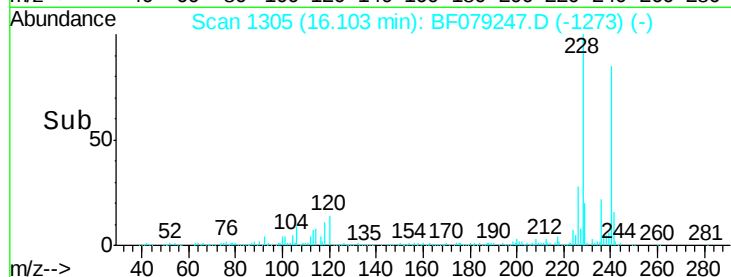
236 25.9 21.0 31.6



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: 68.40 ng m

RT: 14.61 min Scan# 1174

Delta R.T. -0.01 min

Lab File: BF079247.D

Acq: 14 May 2015 22:39

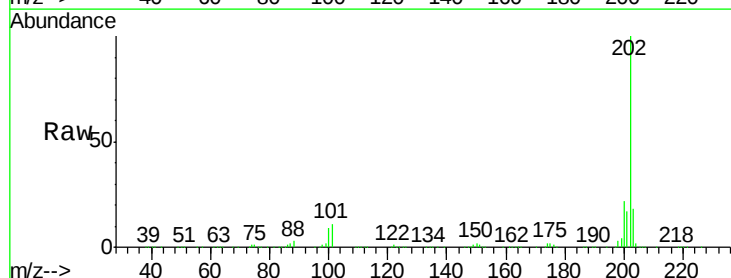
Tgt Ion:202 Resp: 733613

Ion Ratio Lower Upper

202 100

200 21.7 17.5 26.3

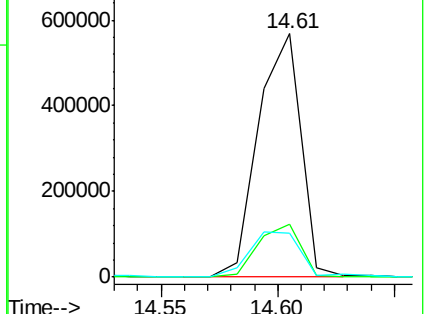
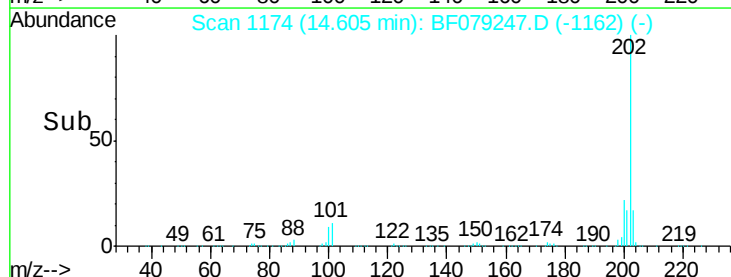
203 17.8 14.7 22.1

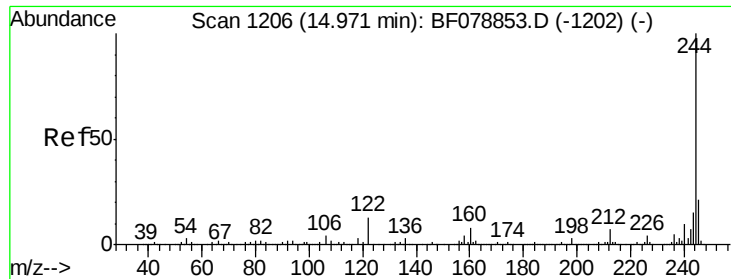


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 23.61 ng/mL

RT: 14.81 min Scan# 1192

Delta R.T. -0.02 min

Lab File: BF079247.D

Acq: 14 May 2015 22:39

Instrument :

BNA_F

ClientSampleId :

SB-38D

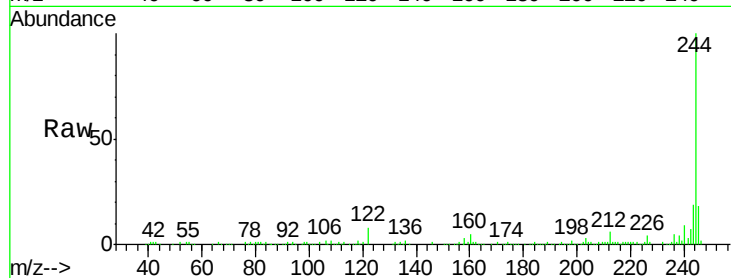
Tot Ion:244 Resp: 183532

Ion Ratio Lower Upper

244 100

212 5.9 5.6 8.4

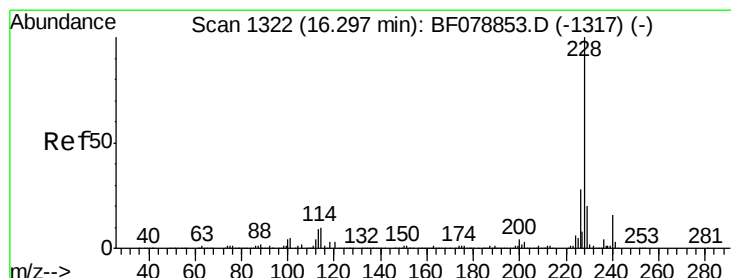
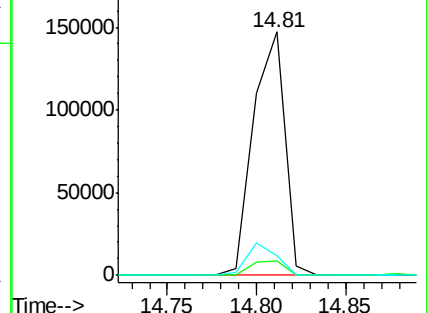
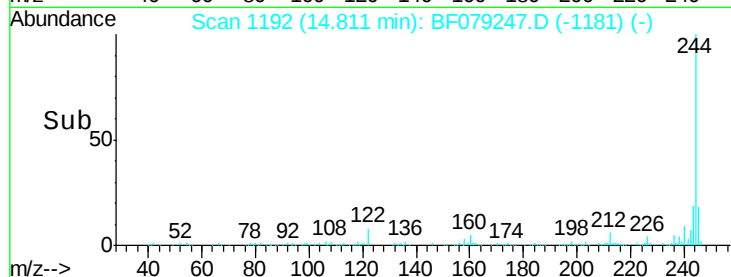
122 7.8 10.5 15.7#



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: 36.15 ng/mL

RT: 16.09 min Scan# 1304

Delta R.T. -0.14 min

Lab File: BF079247.D

Acq: 14 May 2015 22:39

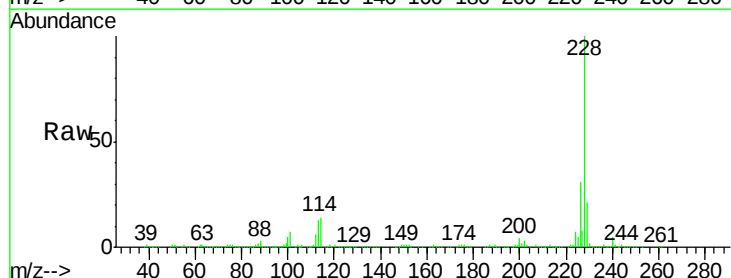
Tgt Ion:228 Resp: 368423

Ion Ratio Lower Upper

228 100

226 31.0 22.3 33.5

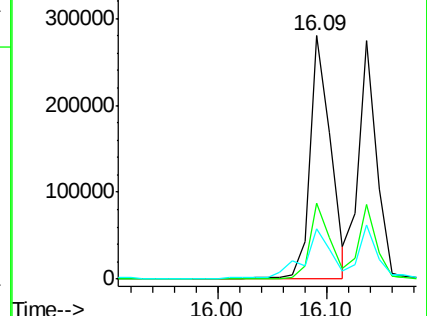
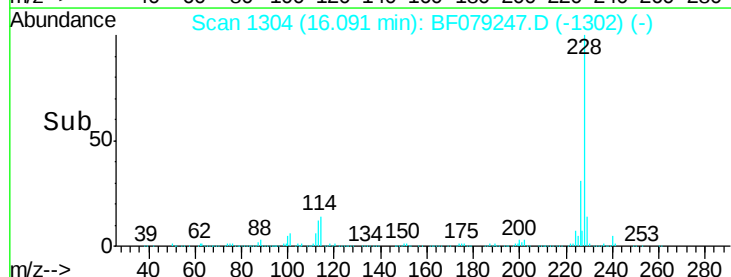
229 20.8 16.1 24.1

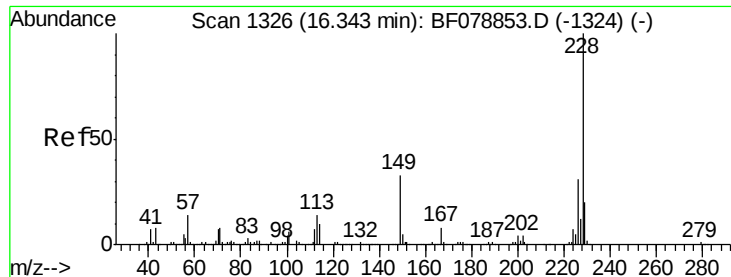


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 32.08 ng

RT: 16.14 min Scan# 1308

Delta R.T. -0.15 min

Lab File: BF079247.D

Acq: 14 May 2015 22:39

Instrument :

BNA_F

ClientSampleId :

SB-38D

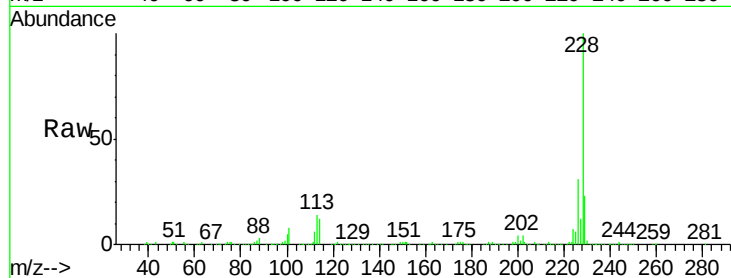
Tot Ion:228 Resp: 314493

Ion Ratio Lower Upper

228 100

226 31.1 24.8 37.2

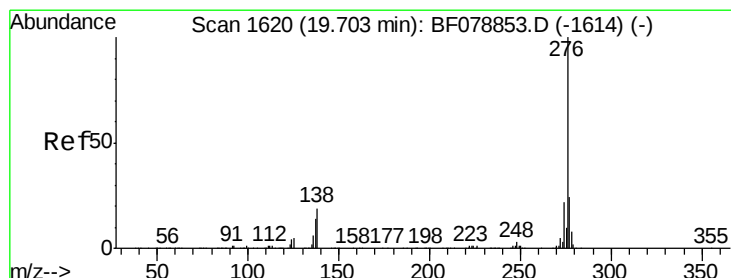
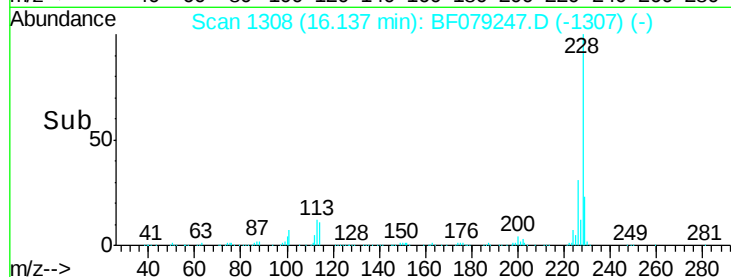
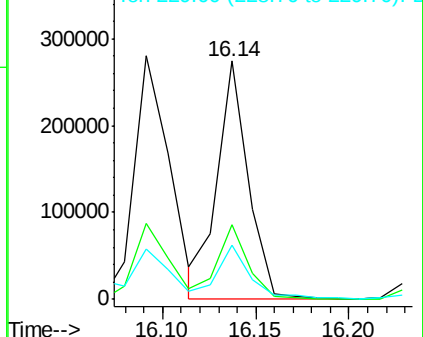
229 22.6 16.1 24.1



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: 18.63 ng m

RT: 19.29 min Scan# 1584

Delta R.T. -0.54 min

Lab File: BF079247.D

Acq: 14 May 2015 22:39

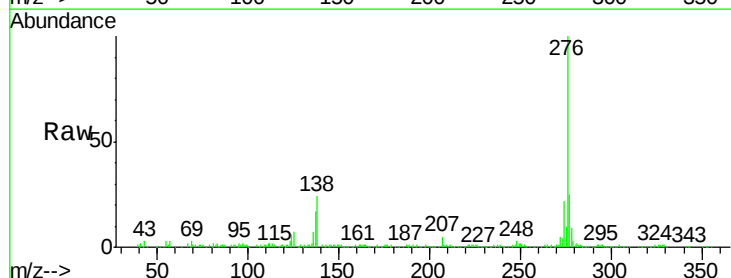
Tgt Ion:276 Resp: 232743

Ion Ratio Lower Upper

276 100

138 22.3 21.1 31.7

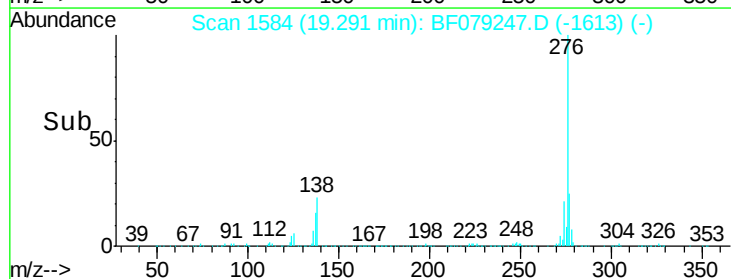
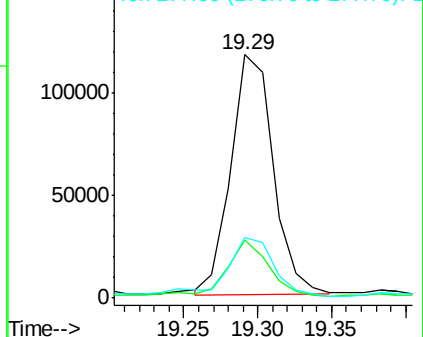
277 23.6 19.9 29.9

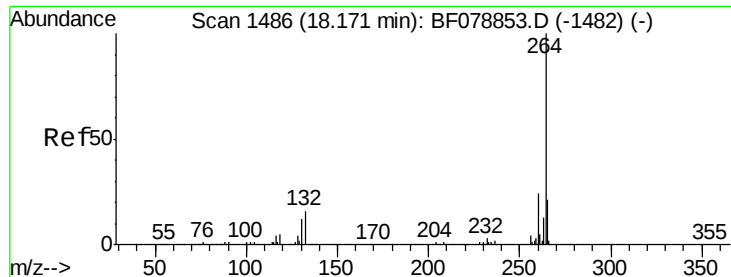


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

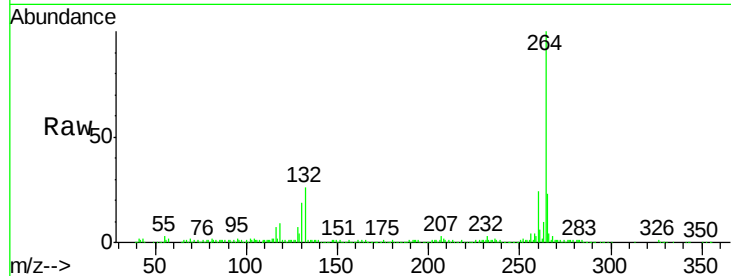




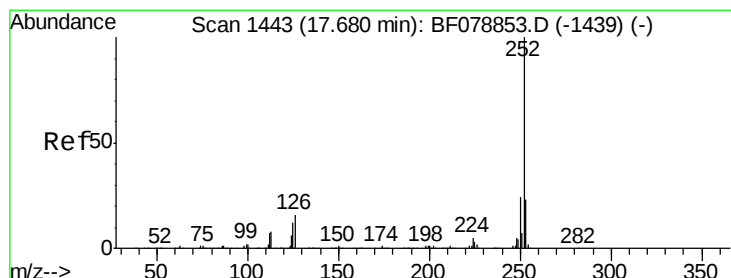
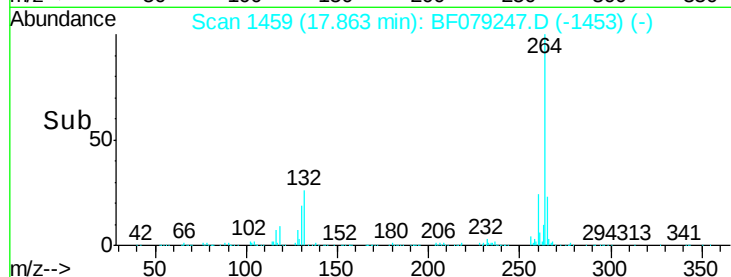
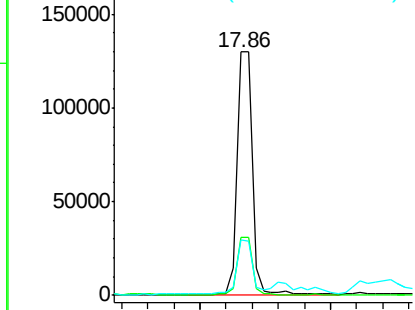
#86
Pervlene-d12
Concen: 20.00 ng
RT: 17.86 min Scan# 1459
Delta R.T. -0.43 min
Lab File: BF079247.D
Acq: 14 May 2015 22:39

Instrument :
BNA_F
ClientSampleId :
SB-38D

Tot Ion:264 Resp: 210099
Ion Ratio Lower Upper
264 100
260 24.1 19.2 28.8
265 22.9 17.2 25.8

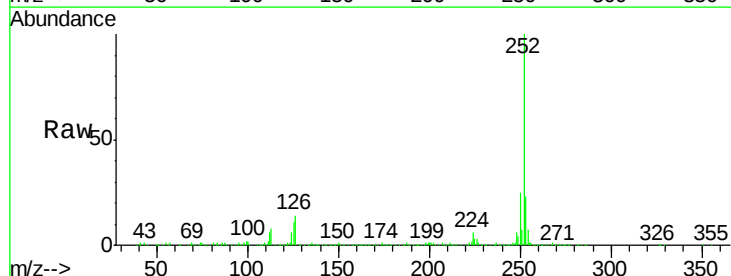


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

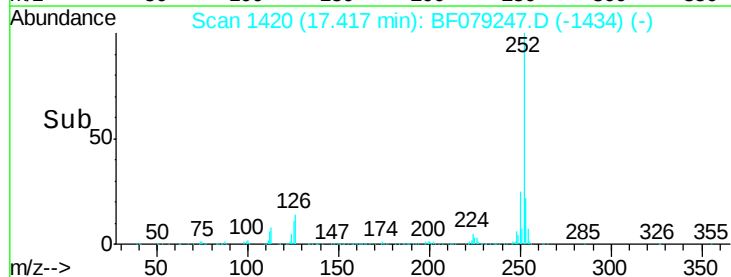
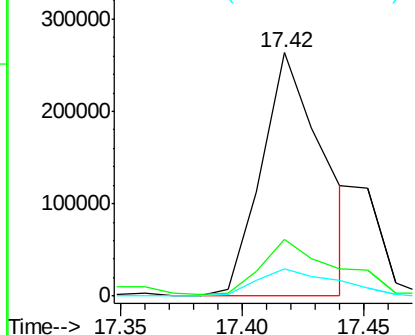


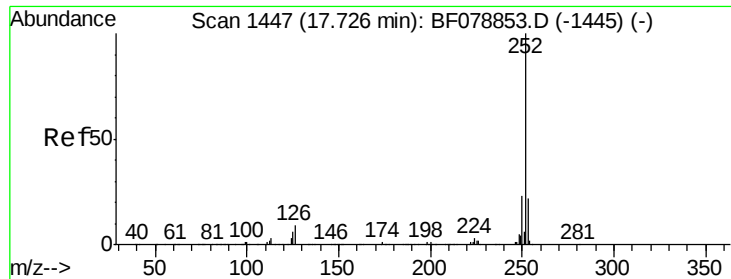
#87
Benzo(b)fluoranthene
Concen: 40.96 ng m
RT: 17.42 min Scan# 1420
Delta R.T. -0.34 min
Lab File: BF079247.D
Acq: 14 May 2015 22:39

Tgt Ion:252 Resp: 471002
Ion Ratio Lower Upper
252 100
253 23.1 18.1 27.1
125 11.4 9.4 14.2



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

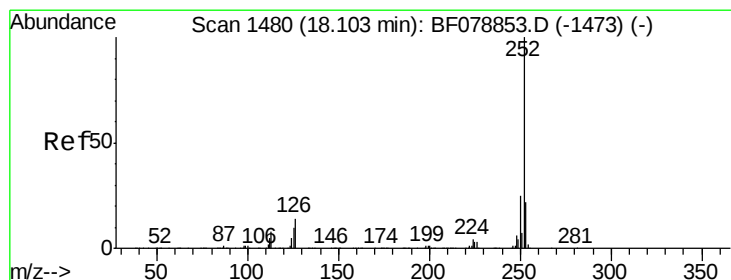
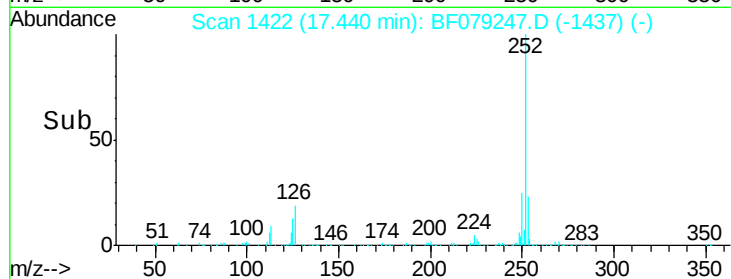
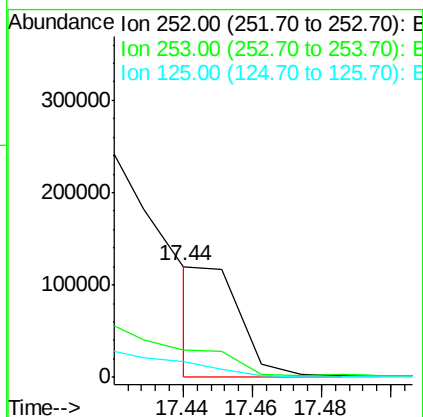
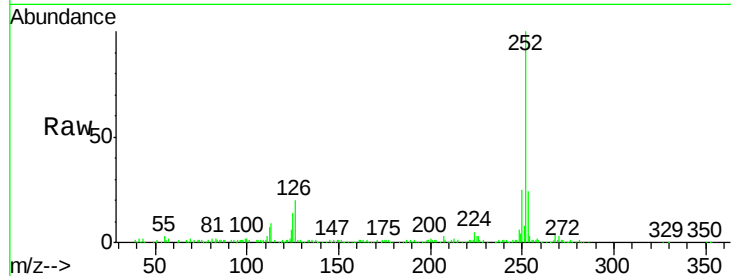




#88
Benzo(k)fluoranthene
Concen: 8.38 ng m
RT: 17.44 min Scan# 1422
Delta R.T. -0.35 min
Lab File: BF079247.D
Acq: 14 May 2015 22:39

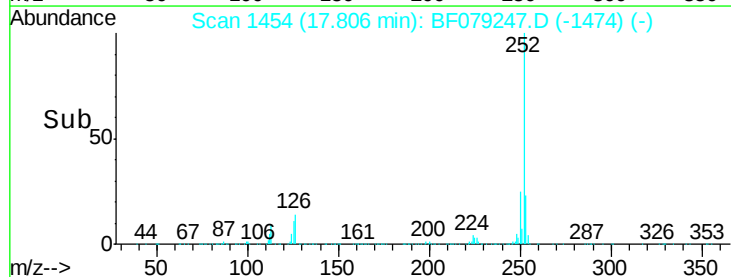
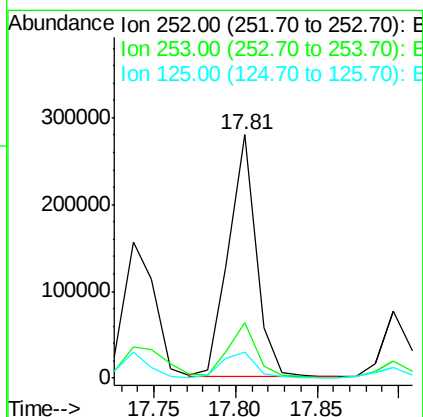
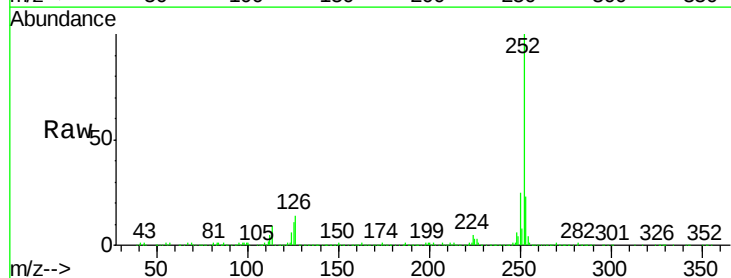
Instrument :
BNA_F
ClientSampleId :
SB-38D

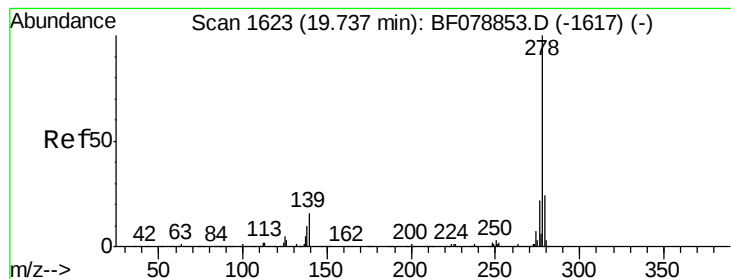
Tot Ion:252 Resp: 93248
Ion Ratio Lower Upper
252 100
253 24.1 17.4 26.0
125 13.8 6.1 9.1#



#89
Benzo(a)pyrene
Concen: 30.60 ng
RT: 17.81 min Scan# 1454
Delta R.T. -0.41 min
Lab File: BF079247.D
Acq: 14 May 2015 22:39

Tgt Ion:252 Resp: 323994
Ion Ratio Lower Upper
252 100
253 23.0 18.0 27.0
125 10.9 8.2 12.2





#90

Dibenzo(a,h)anthracene

Concen: 4.55 ng/mL

RT: 19.31 min Scan# 1586

Delta R.T. -0.55 min

Lab File: BF079247.D

Acq: 14 May 2015 22:39

Instrument:

BNA_F

ClientSampleID:

SB-38D

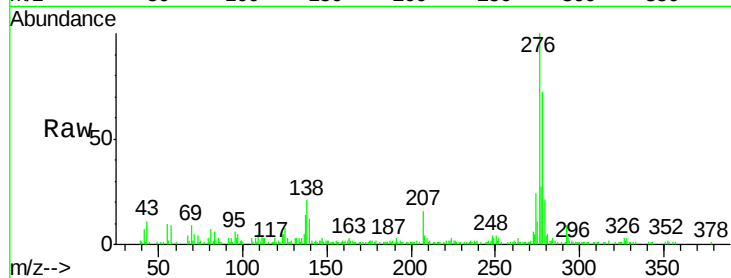
Tot Ion: 278 Resp: 51192

Ion Ratio Lower Upper

278 100

139 16.2 13.1 19.7

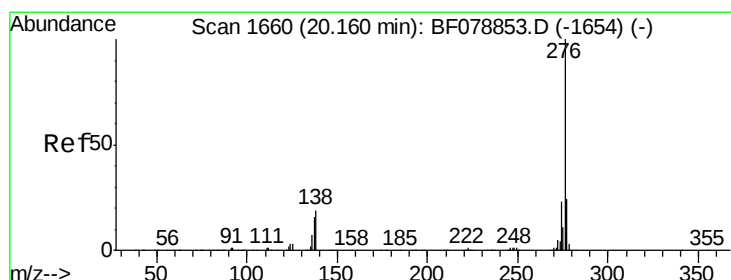
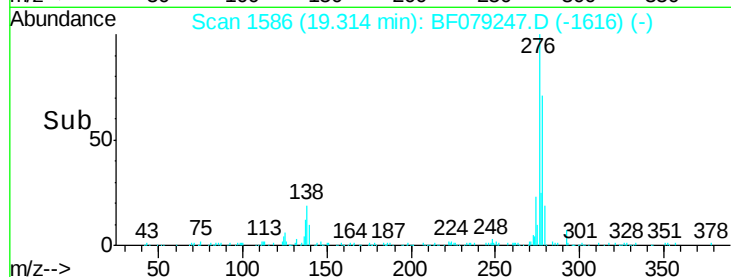
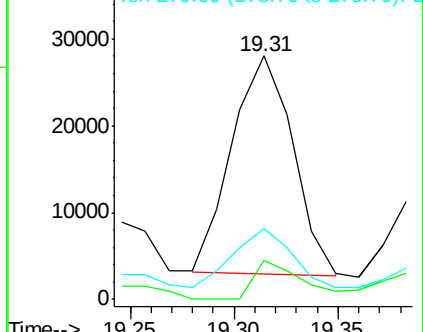
279 28.8 19.1 28.7#



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: 19.83 ng/mL

RT: 19.71 min Scan# 1621

Delta R.T. -0.55 min

Lab File: BF079247.D

Acq: 14 May 2015 22:39

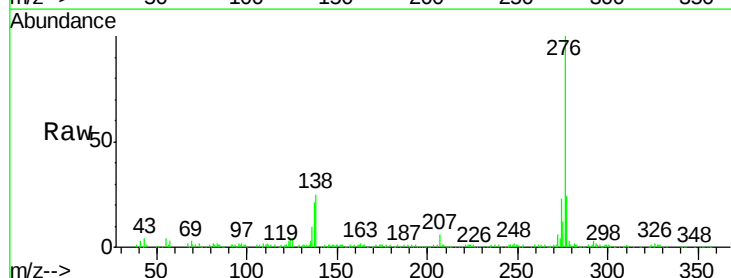
Tgt Ion: 276 Resp: 223681

Ion Ratio Lower Upper

276 100

277 24.1 18.8 28.2

138 25.0 15.2 22.8#



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

