

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF060415\
 Data File : BF079730.D
 Acq On : 5 Jun 2015 6:39
 Operator : TP/IZ
 Sample : G2450-01
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SEC-3.2-SP

Quant Time: Jun 06 04:20:08 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF060415.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jun 06 03:31:13 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.51	152	67347	20.00	ng	0.00
21) Naphthalene-d8	8.80	136	271844	20.00	ng	0.00
38) Acenaphthene-d10	10.58	164	152894	20.00	ng	0.00
63) Phenanthrene-d10	12.10	188	302534	20.00	ng	0.02
75) Chrysene-d12	15.20	240	336329m	20.00	ng	0.22
86) Perylene-d12	17.23	264	336130m	20.00	ng	0.32

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	6.12	112	437121	111.29	ng	0.00
7) Phenol-d6	7.11	99	631044	123.42	ng	0.01
23) Nitrobenzene-d5	8.07	82	320872	71.87	ng	0.00
41) 2,4,6-Tribromophenol	11.38	330	163516	119.09	ng	0.01
44) 2-Fluorobiphenyl	9.87	172	750079	71.03	ng	0.00
78) Terphenyl-d14	13.85	244	978704	68.56	ng	0.11

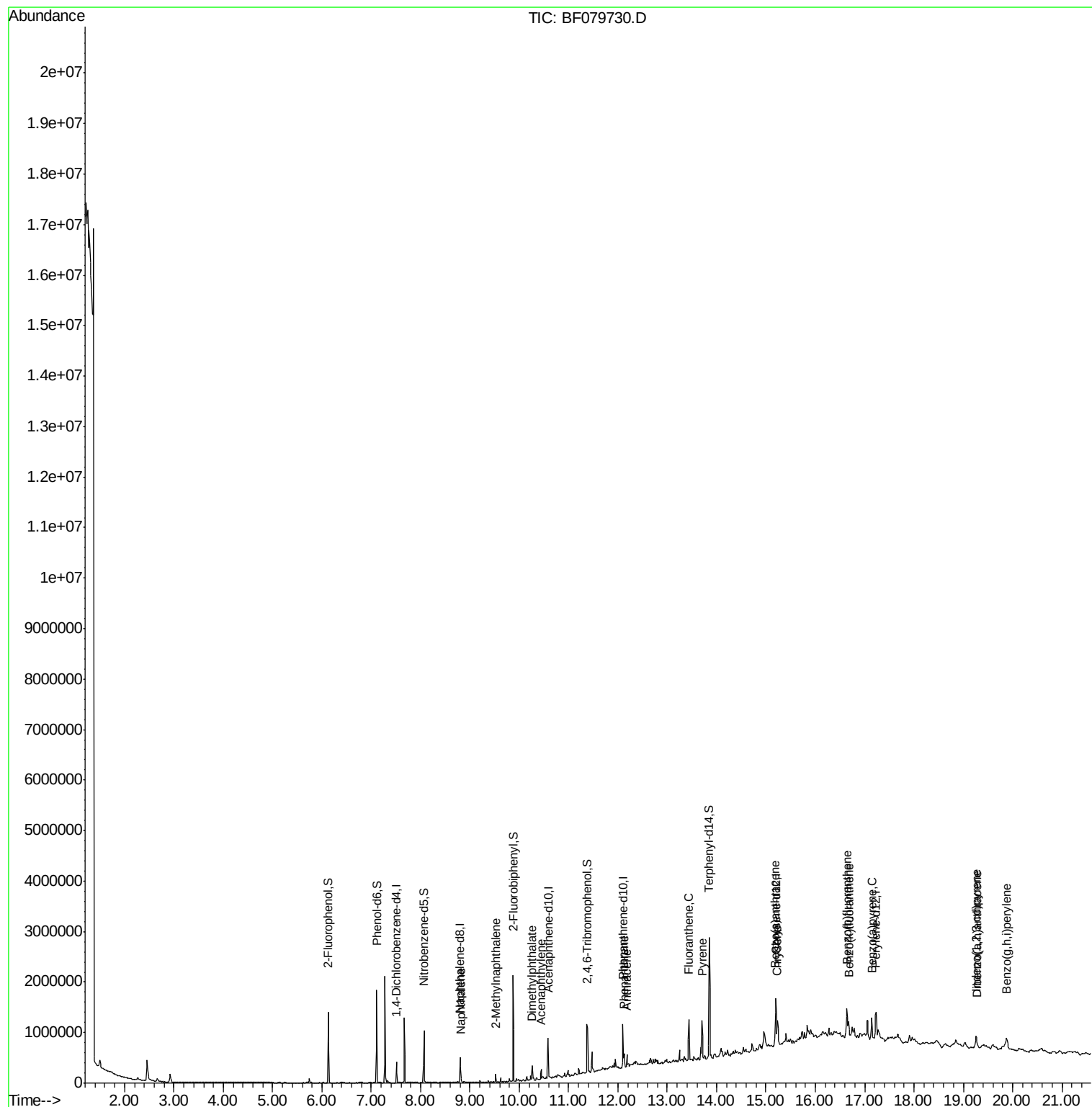
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.82	128	34066	2.27	ng	98
37) 2-Methylnaphthalene	9.52	142	40404	4.00	ng	97
48) Acenaphthylene	10.44	152	95215	5.57	ng	99
49) Dimethylphthalate	10.26	163	65704	5.58	ng	99
70) Phenanthrene	12.12	178	116130	6.60	ng	98
71) Anthracene	12.18	178	102540	5.89	ng	98
74) Fluoranthene	13.44	202	397801	20.84	ng	97
77) Pyrene	13.70	202	402040	19.24	ng	100
80) Benzo(a)anthracene	15.19	228	288442m	14.03	ng	
82) Chrysene	15.23	228	279183m	14.51	ng	
85) Indeno(1,2,3-cd)pyrene	19.26	276	197632m	9.10	ng	
87) Benzo(b)fluoranthene	16.64	252	453961m	20.94	ng	
88) Benzo(k)fluoranthene	16.67	252	142779m	6.90	ng	
89) Benzo(a)pyrene	17.14	252	251368m	12.69	ng	
90) Dibenzo(a,h)anthracene	19.28	278	65569m	3.58	ng	
91) Benzo(g,h,i)perylene	19.87	276	199842m	10.68	ng	

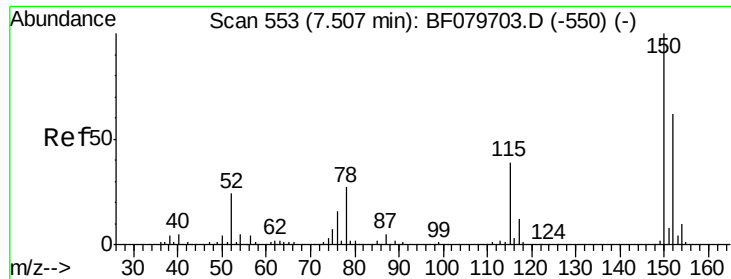
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.51 min Scan# 553

Delta R.T. 0.00 min

Lab File: BF079730.D

Acq: 5 Jun 2015 6:39

Instrument :

BNA_F

ClientSampleId :

SEC-3.2-SP

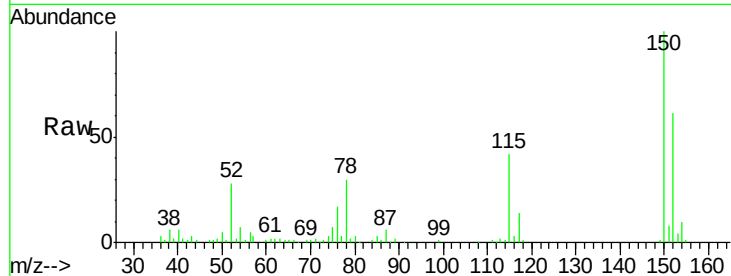
Tgt Ion:152 Resp: 67347

Ion Ratio Lower Upper

152 100

150 163.2 128.1 192.1

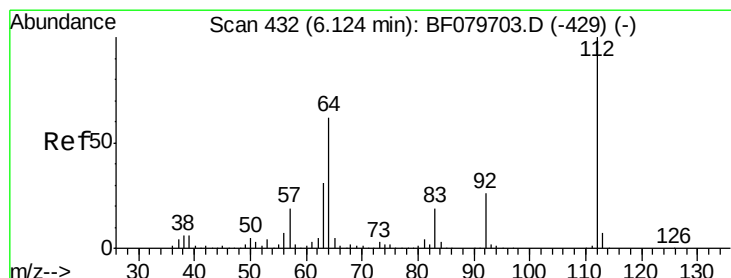
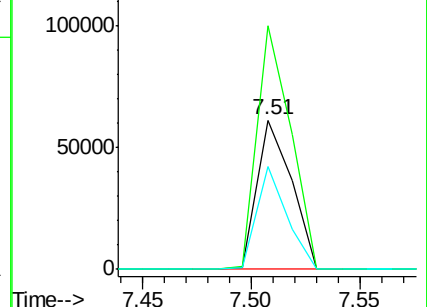
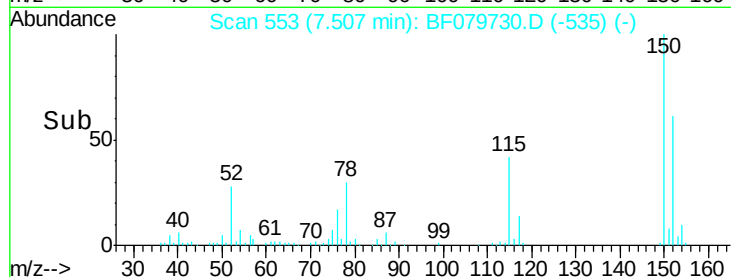
115 69.0 49.7 74.5



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: 111.29 ng

RT: 6.12 min Scan# 432

Delta R.T. 0.00 min

Lab File: BF079730.D

Acq: 5 Jun 2015 6:39

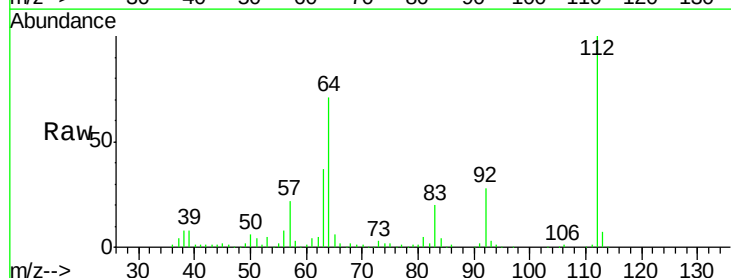
Tgt Ion:112 Resp: 437121

Ion Ratio Lower Upper

112 100

64 70.9 49.6 74.4

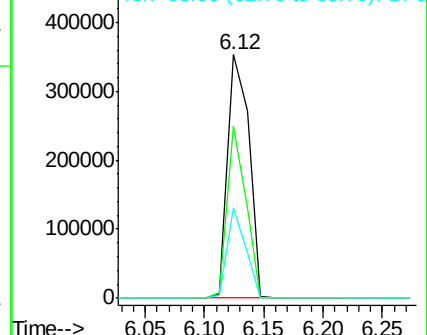
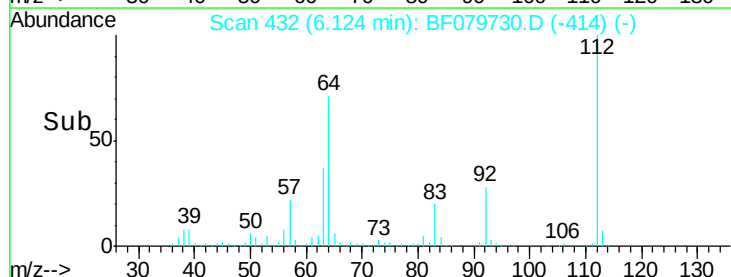
63 36.9 24.9 37.3

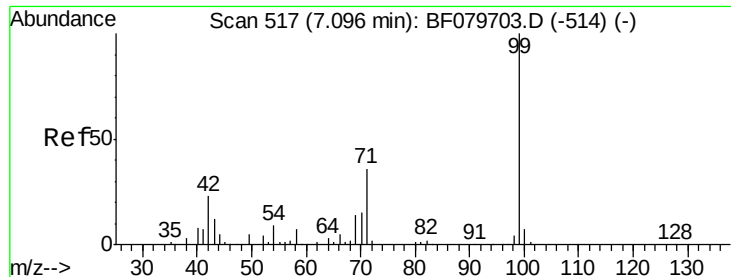


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 123.42 ng

RT: 7.11 min Scan# 518

Delta R.T. 0.01 min

Lab File: BF079730.D

Acq: 5 Jun 2015 6:39

Instrument :

BNA_F

ClientSampleId :

SEC-3.2-SP

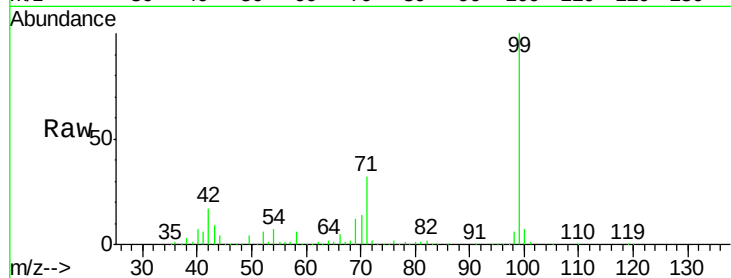
Tgt Ion: 99 Resp: 631044

Ion Ratio Lower Upper

99 100

42 16.8 18.0 27.0#

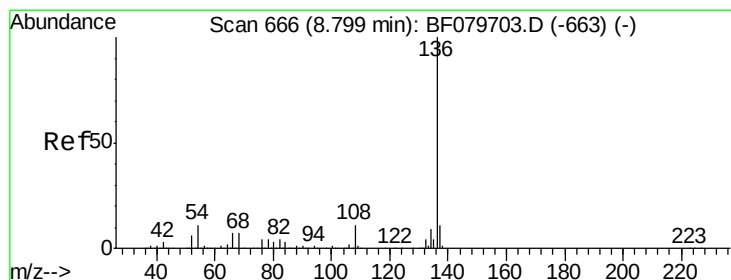
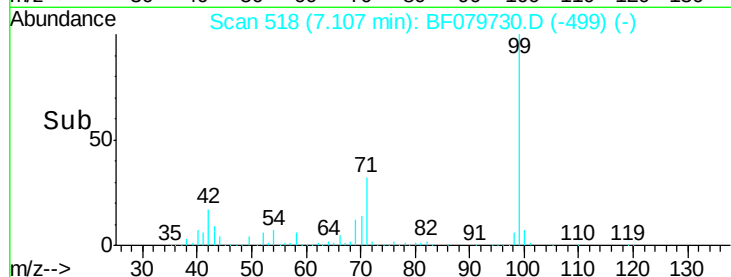
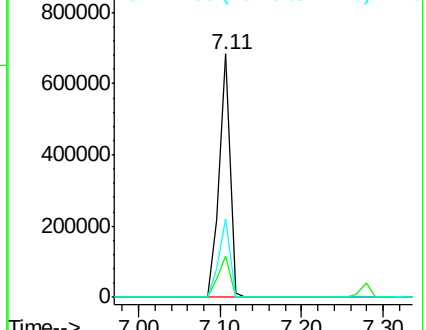
71 32.0 28.4 42.6



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: 8.80 min Scan# 666

Delta R.T. 0.00 min

Lab File: BF079730.D

Acq: 5 Jun 2015 6:39

Tgt Ion: 136 Resp: 271844

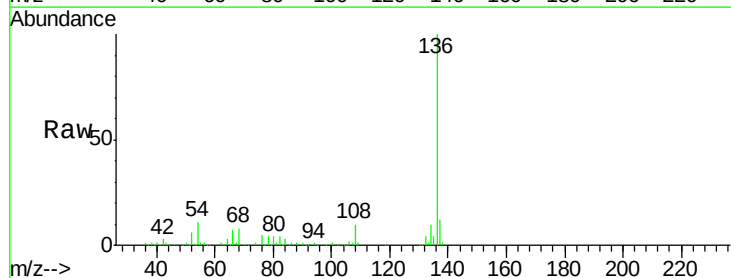
Ion Ratio Lower Upper

136 100

137 11.5 8.8 13.2

54 11.4 8.7 13.1

68 7.6 5.8 8.8

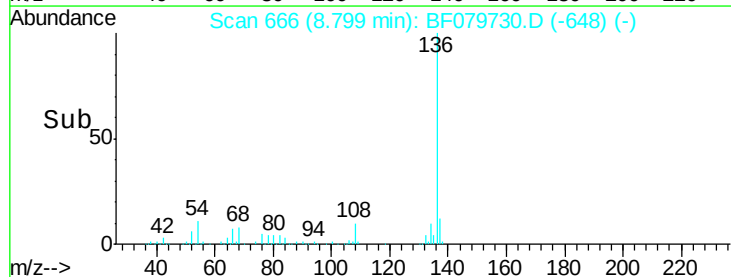
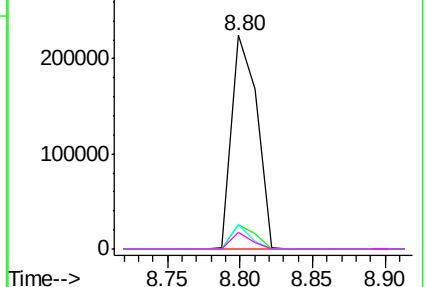


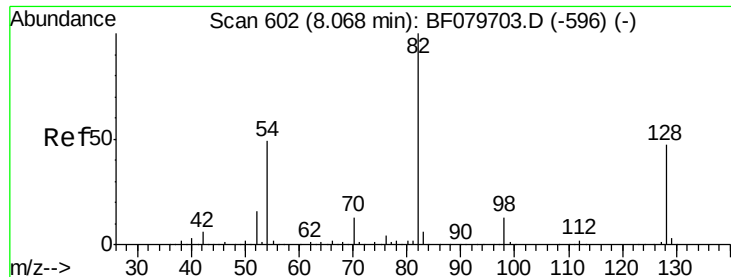
Abundance Ion 136.00 (135.70 to 136.70): E

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

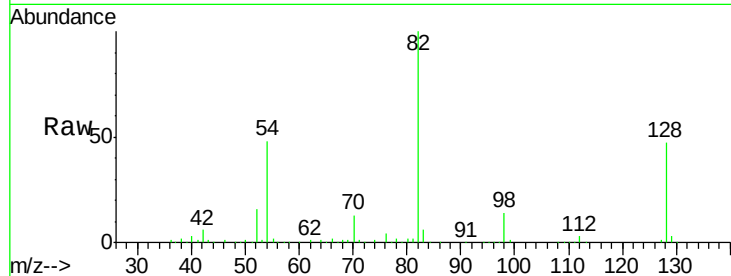




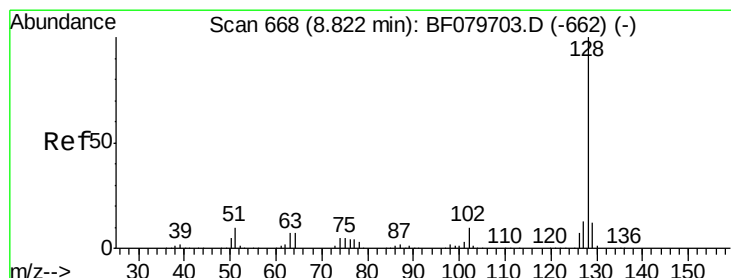
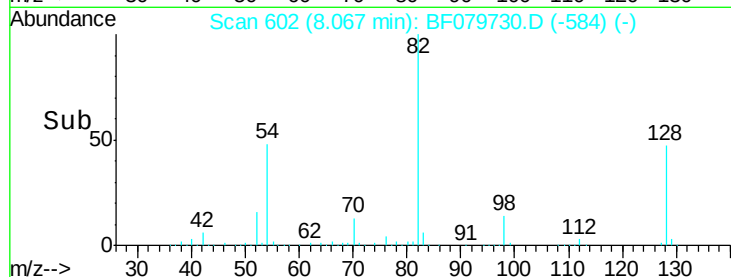
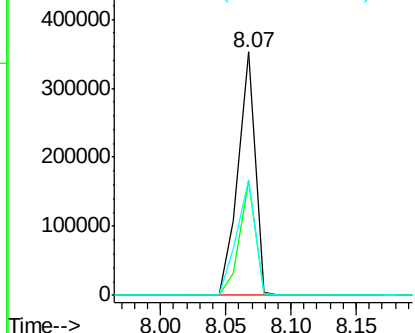
#23
 Nitrobenzene-d5
 Concen: 71.87 ng
 RT: 8.07 min Scan# 602
 Delta R.T. 0.00 min
 Lab File: BF079730.D
 Acq: 5 Jun 2015 6:39

Instrument :
 BNA_F
 ClientSampleId :
 SEC-3.2-SP

Tgt Ion: 82 Resp: 320872
 Ion Ratio Lower Upper
 82 100
 128 46.7 37.6 56.4
 54 47.5 39.4 59.2

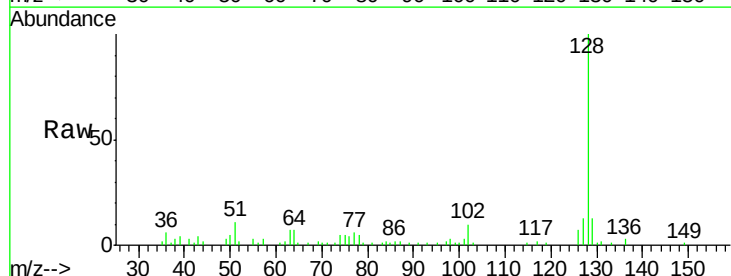


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

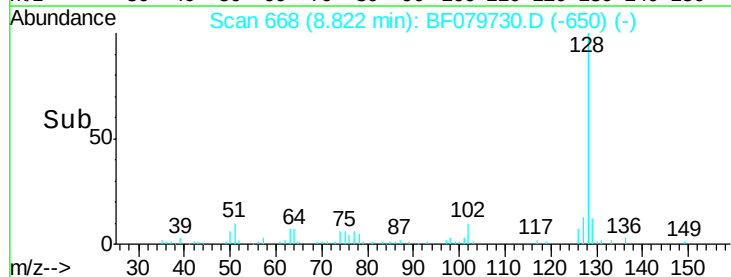
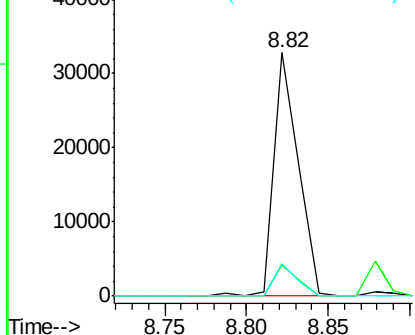


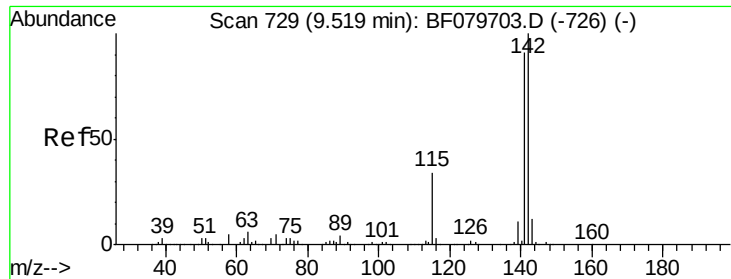
#31
 Naphthalene
 Concen: 2.27 ng
 RT: 8.82 min Scan# 668
 Delta R.T. 0.00 min
 Lab File: BF079730.D
 Acq: 5 Jun 2015 6:39

Tgt Ion: 128 Resp: 34066
 Ion Ratio Lower Upper
 128 100
 129 12.9 9.4 14.2
 127 13.2 10.7 16.1



Abundance Ion 128.00 (127.70 to 128.70): E
 Ion 129.00 (128.70 to 129.70): E
 Ion 127.00 (126.70 to 127.70): E

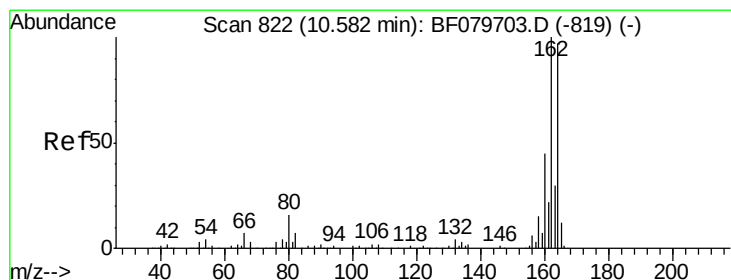
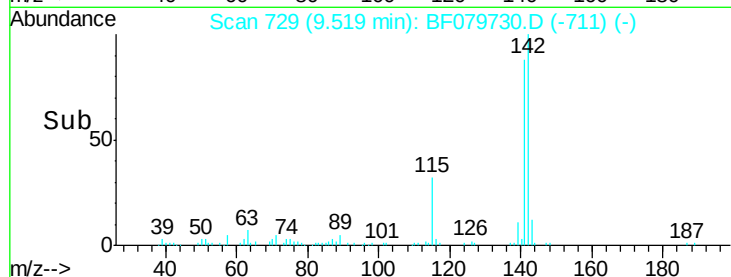
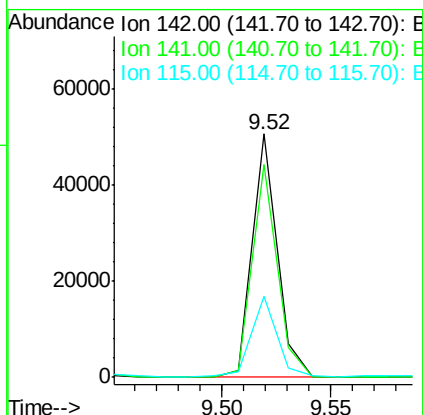
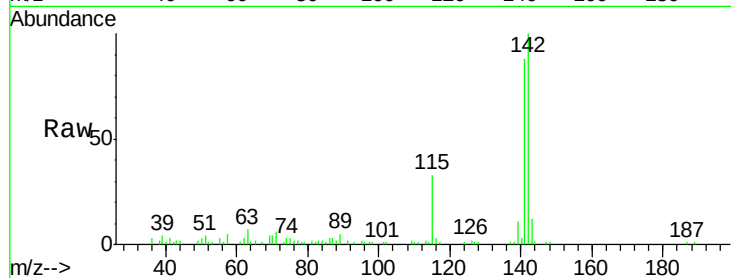




#37
2-Methylnaphthalene
Concen: 4.00 ng
RT: 9.52 min Scan# 729
Delta R.T. 0.00 min
Lab File: BF079730.D
Acq: 5 Jun 2015 6:39

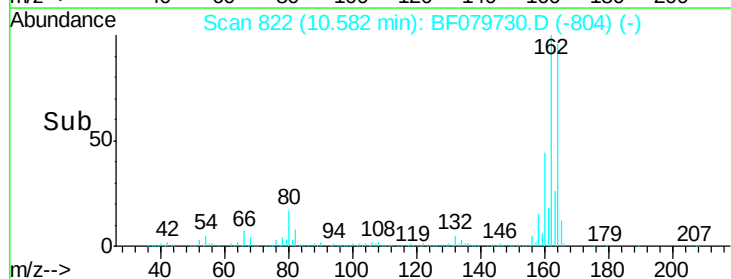
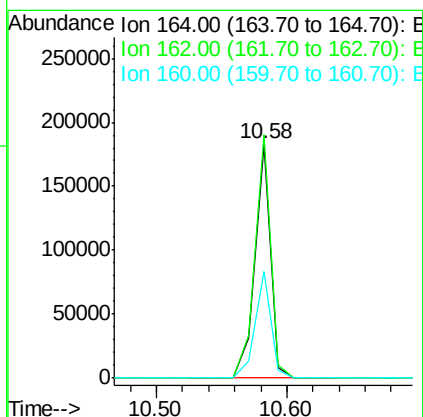
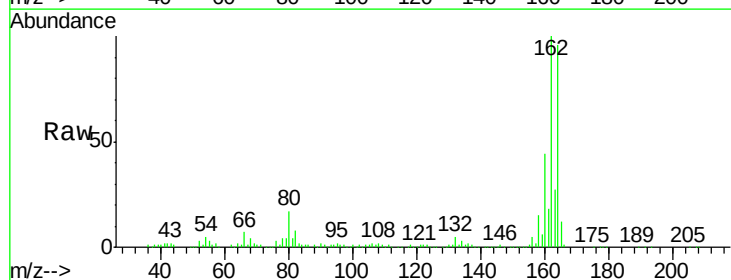
Instrument :
BNA_F
ClientSampleId :
SEC-3.2-SP

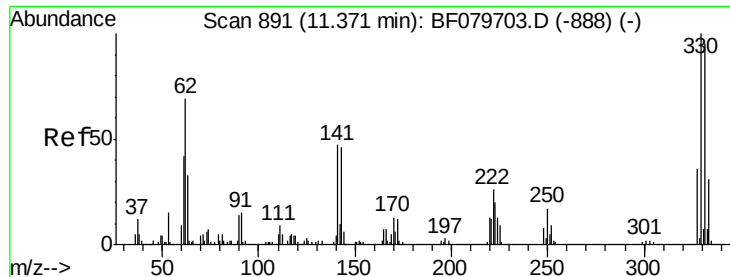
Tgt Ion:142 Resp: 40404
Ion Ratio Lower Upper
142 100
141 87.6 72.8 109.2
115 33.3 26.9 40.3



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 10.58 min Scan# 822
Delta R.T. 0.00 min
Lab File: BF079730.D
Acq: 5 Jun 2015 6:39

Tgt Ion:164 Resp: 152894
Ion Ratio Lower Upper
164 100
162 104.2 82.6 123.8
160 45.6 36.8 55.2

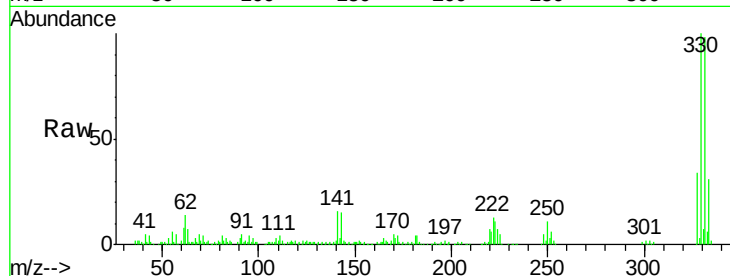




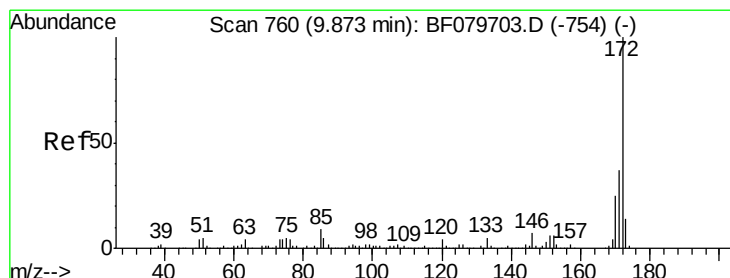
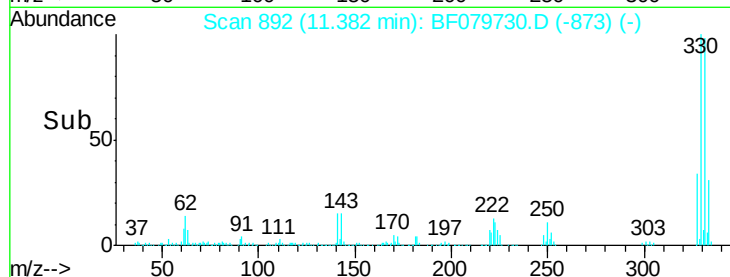
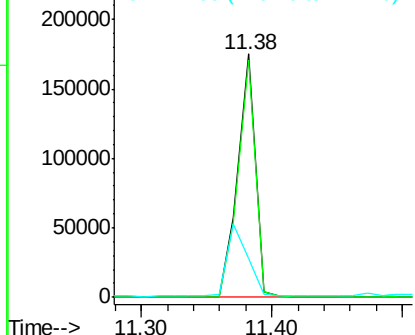
#41
 2,4,6-Tribromophenol
 Concen: 119.09 ng
 RT: 11.38 min Scan# 892
 Delta R.T. 0.01 min
 Lab File: BF079730.D
 Acq: 5 Jun 2015 6:39

Instrument :
 BNA_F
 ClientSampleId :
 SEC-3.2-SP

Tgt Ion:330 Resp: 163516
 Ion Ratio Lower Upper
 330 100
 332 97.0 77.4 116.0
 141 36.3 30.2 45.2

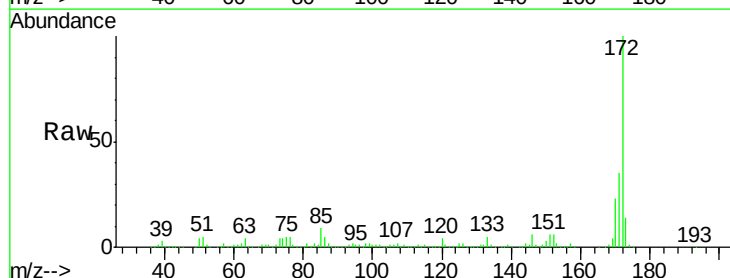


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

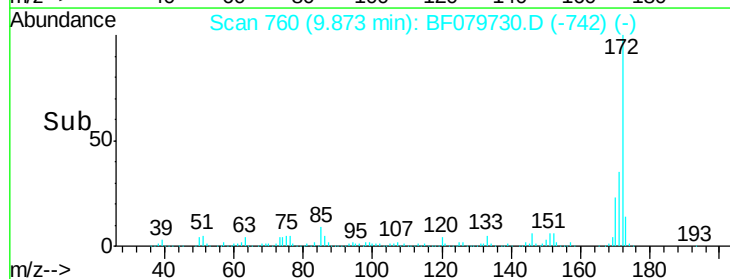
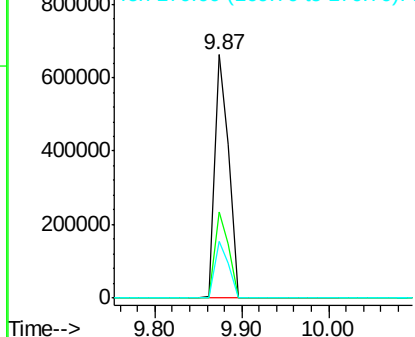


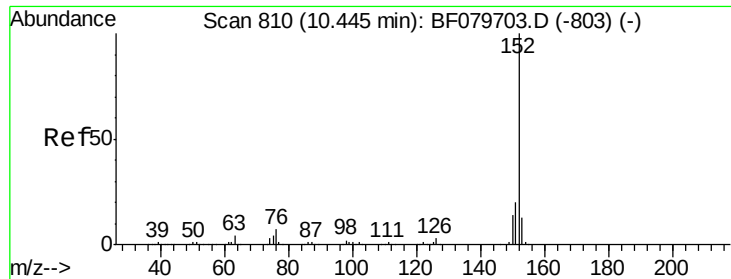
#44
 2-Fluorobiphenyl
 Concen: 71.03 ng
 RT: 9.87 min Scan# 760
 Delta R.T. 0.00 min
 Lab File: BF079730.D
 Acq: 5 Jun 2015 6:39

Tgt Ion:172 Resp: 750079
 Ion Ratio Lower Upper
 172 100
 171 35.2 29.4 44.0
 170 23.4 19.7 29.5



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: 5.57 ng

RT: 10.44 min Scan# 810

Delta R.T. 0.01 min

Lab File: BF079730.D

Acq: 5 Jun 2015 6:39

Instrument :

BNA_F

ClientSampleId :

SEC-3.2-SP

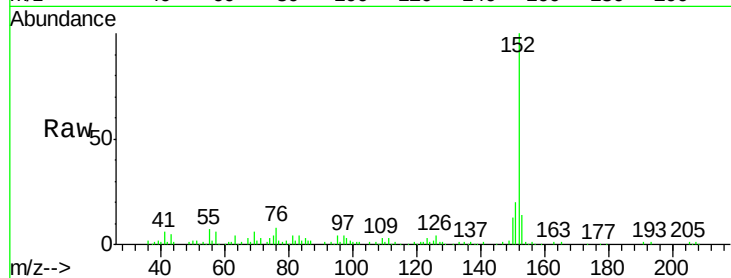
Tgt Ion:152 Resp: 95215

Ion Ratio Lower Upper

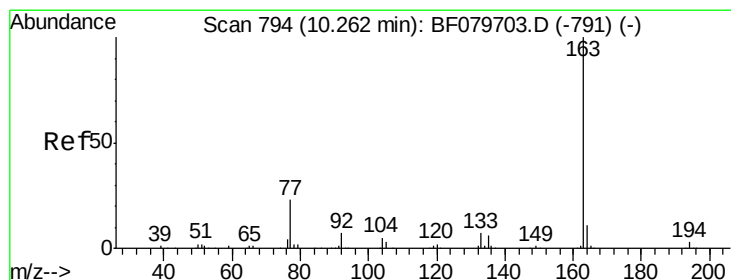
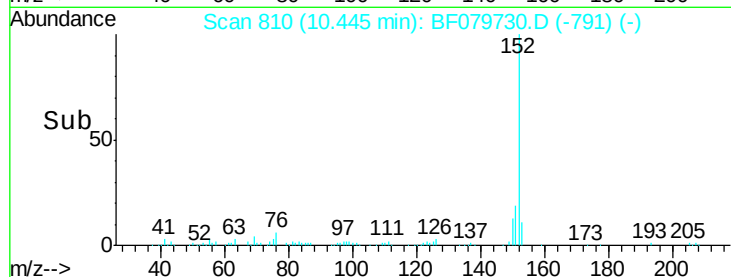
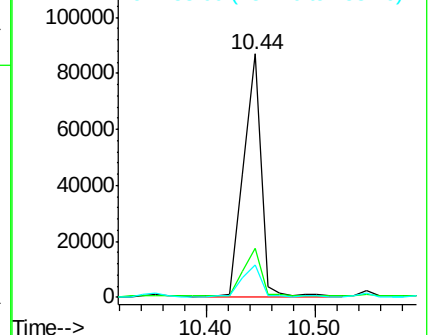
152 100

151 20.0 16.2 24.4

153 13.5 10.4 15.6



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: 5.58 ng

RT: 10.26 min Scan# 794

Delta R.T. 0.00 min

Lab File: BF079730.D

Acq: 5 Jun 2015 6:39

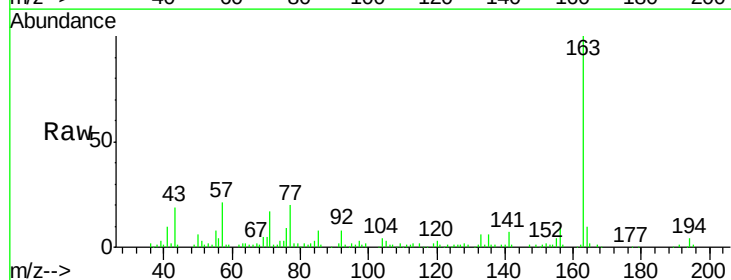
Tgt Ion:163 Resp: 65704

Ion Ratio Lower Upper

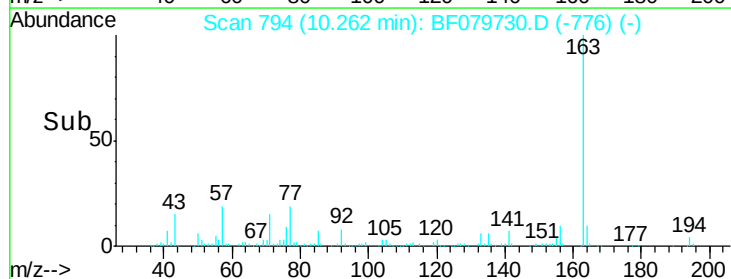
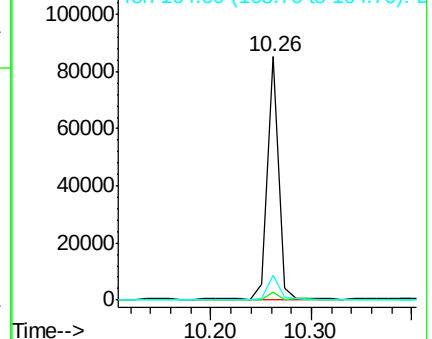
163 100

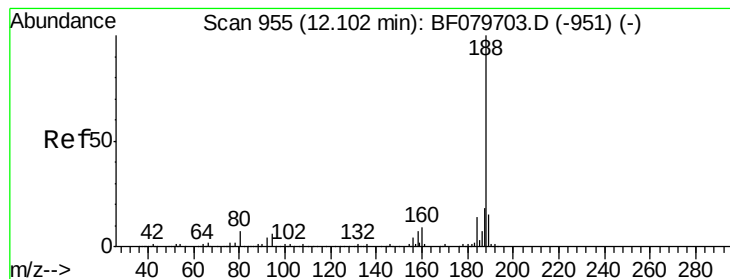
194 3.6 2.6 3.8

164 10.1 8.5 12.7



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





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.10 min Scan# 955

Delta R.T. 0.02 min

Lab File: BF079730.D

Acq: 5 Jun 2015 6:39

Instrument :

BNA_F

ClientSampleId :

SEC-3.2-SP

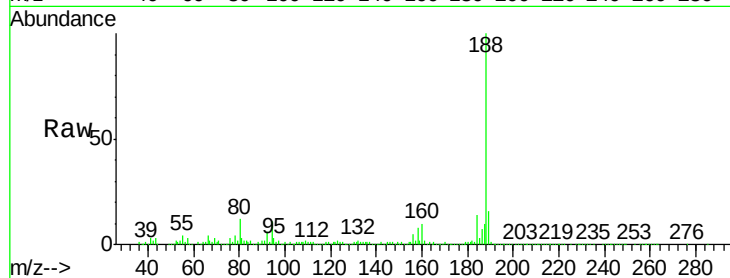
Tgt Ion:188 Resp: 302534

Ion Ratio Lower Upper

188 100

94 10.5 5.0 7.4#

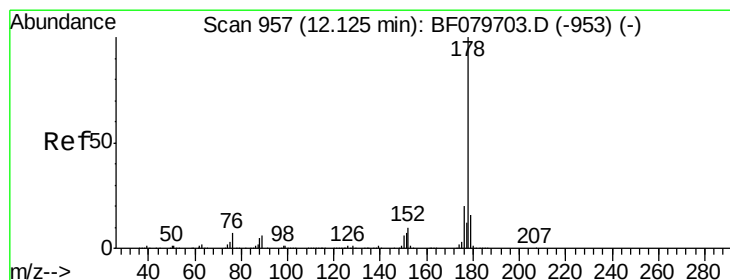
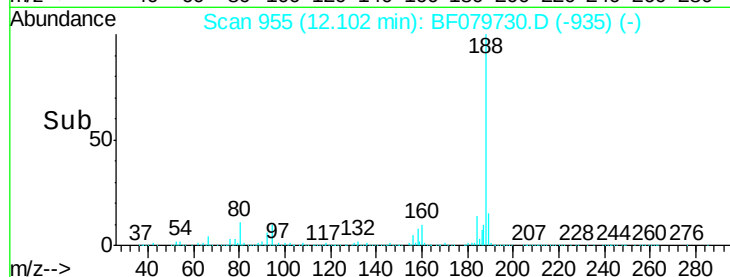
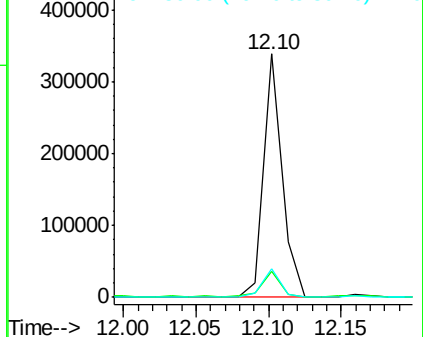
80 11.7 5.3 7.9#



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: 6.60 ng

RT: 12.12 min Scan# 957

Delta R.T. 0.01 min

Lab File: BF079730.D

Acq: 5 Jun 2015 6:39

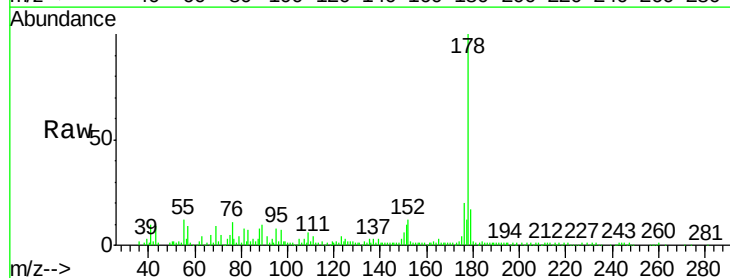
Tgt Ion:178 Resp: 116130

Ion Ratio Lower Upper

178 100

176 19.7 16.2 24.4

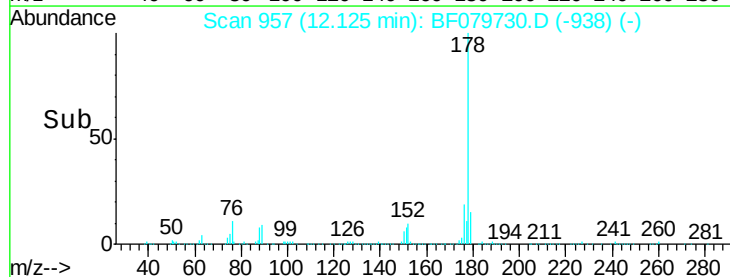
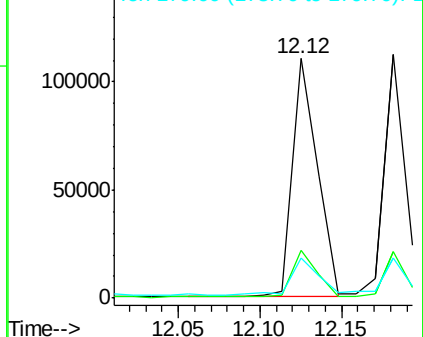
179 16.9 12.6 19.0

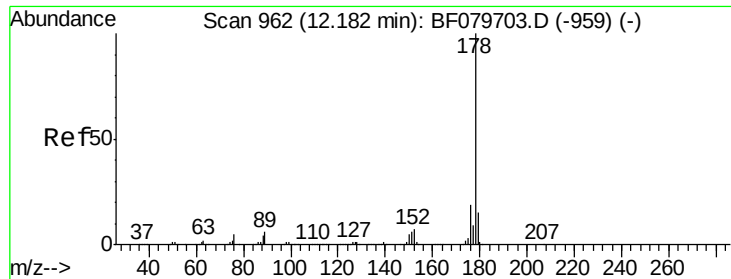


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 5.89 ng

RT: 12.18 min Scan# 962

Delta R.T. 0.02 min

Lab File: BF079730.D

Acq: 5 Jun 2015 6:39

Instrument :

BNA_F

ClientSampleId :

SEC-3.2-SP

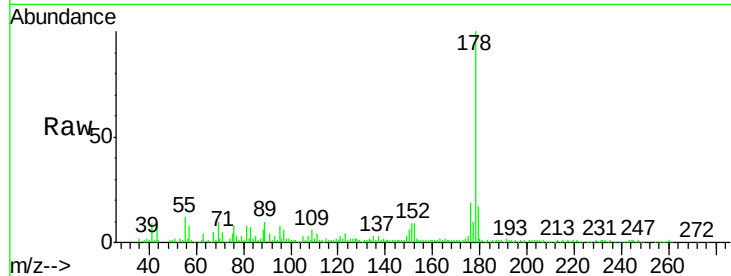
Tgt Ion:178 Resp: 102540

Ion Ratio Lower Upper

178 100

176 19.0 14.8 22.2

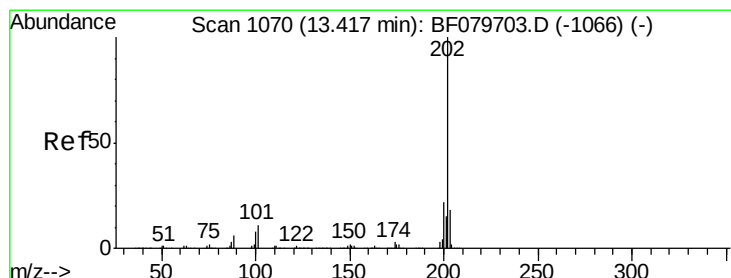
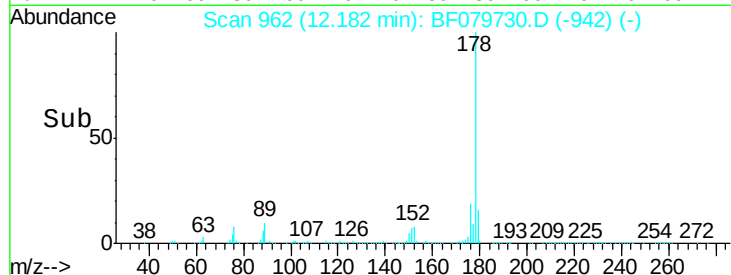
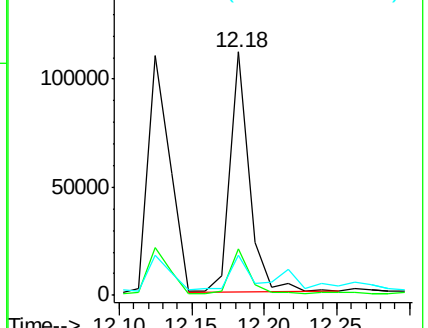
179 16.6 12.2 18.2



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



#74

Fluoranthene

Concen: 20.84 ng

RT: 13.44 min Scan# 1072

Delta R.T. 0.09 min

Lab File: BF079730.D

Acq: 5 Jun 2015 6:39

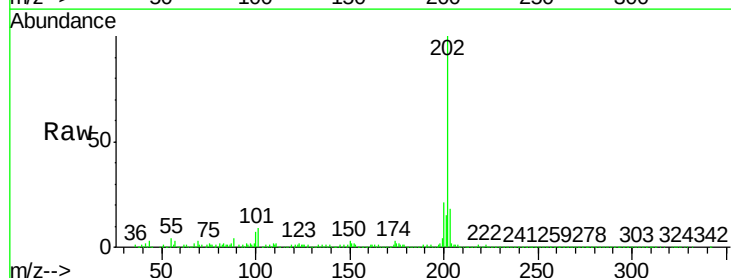
Tgt Ion:202 Resp: 397801

Ion Ratio Lower Upper

202 100

101 8.6 0.0 31.3

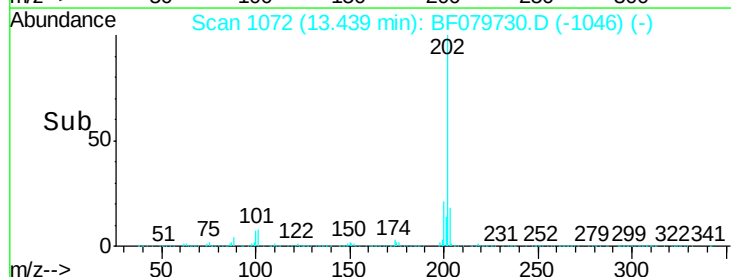
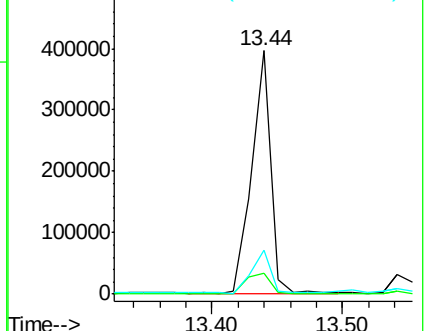
203 18.0 0.0 38.4

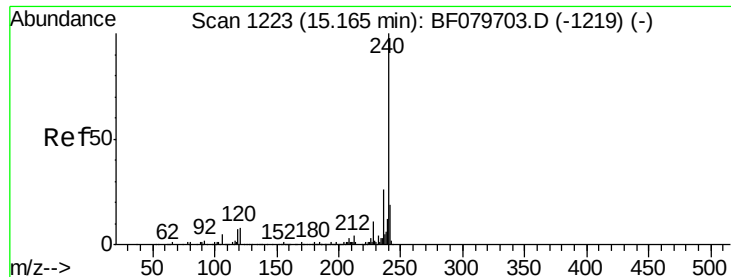


Abundance Ion 202.00 (201.70 to 202.70): E

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 m

RT: 15.20 min Scan# 1226

Delta R.T. 0.22 min

Lab File: BF079730.D

Acq: 5 Jun 2015 6:39

Instrument :

BNA_F

ClientSampleId :

SEC-3.2-SP

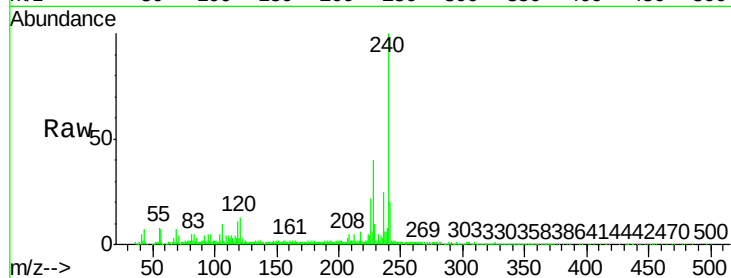
Tgt Ion:240 Resp: 336329

Ion Ratio Lower Upper

240 100

120 13.1 6.2 9.2#

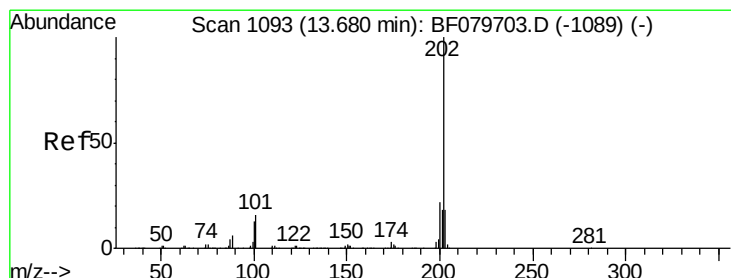
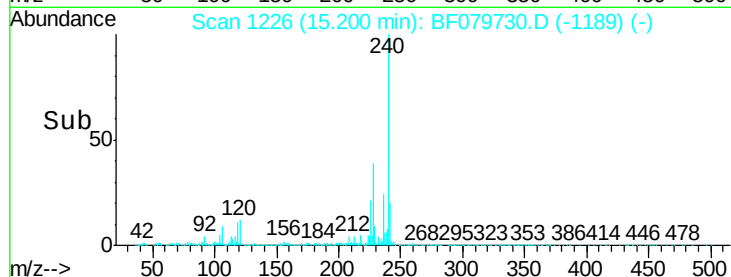
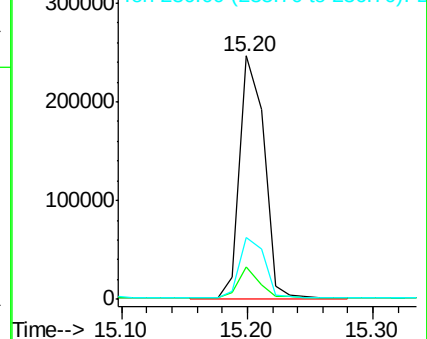
236 25.3 21.0 31.4



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: 19.24 ng

RT: 13.70 min Scan# 1095

Delta R.T. 0.10 min

Lab File: BF079730.D

Acq: 5 Jun 2015 6:39

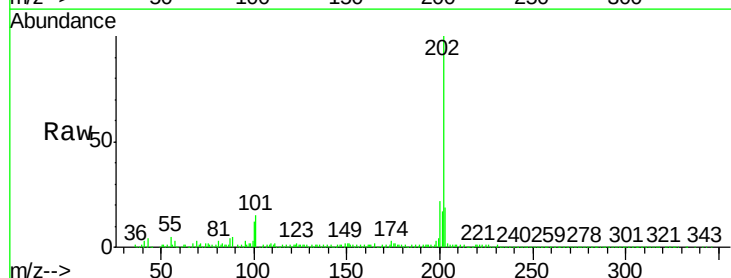
Tgt Ion:202 Resp: 402040

Ion Ratio Lower Upper

202 100

200 21.7 17.5 26.3

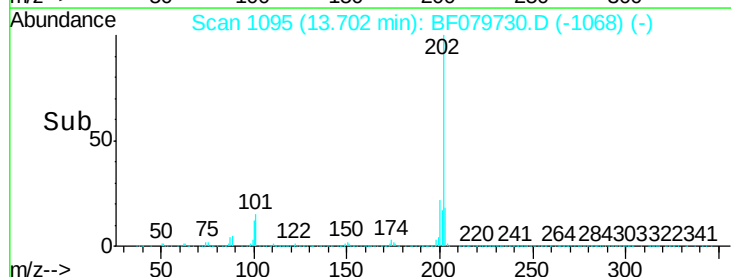
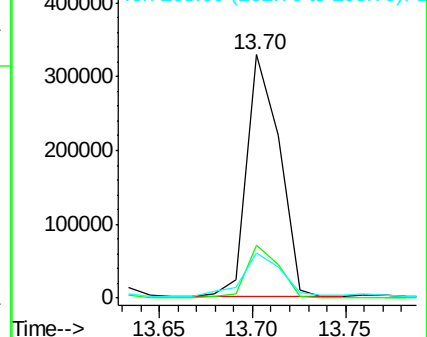
203 18.5 14.8 22.2

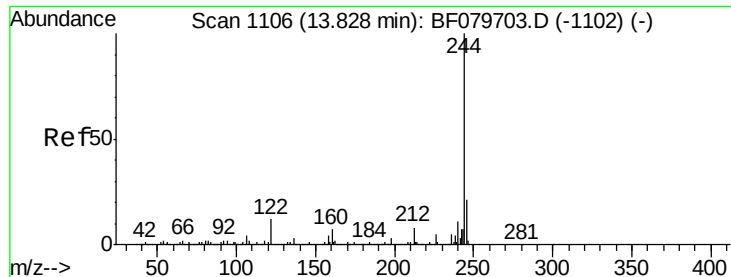


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

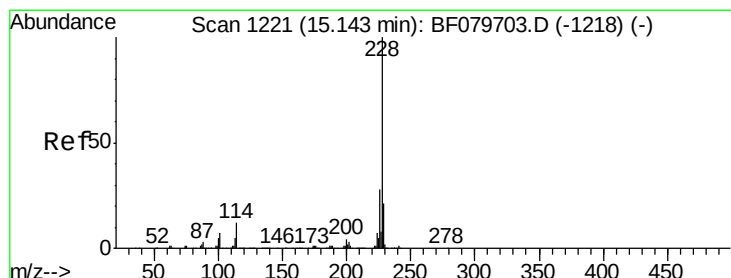
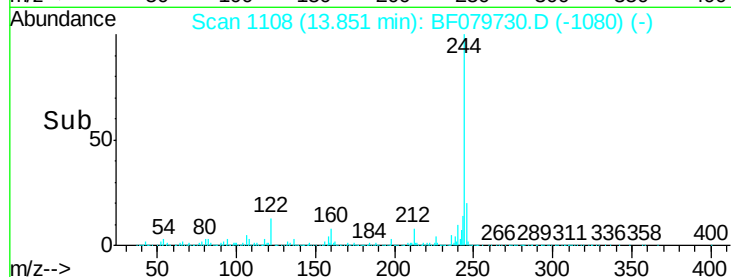
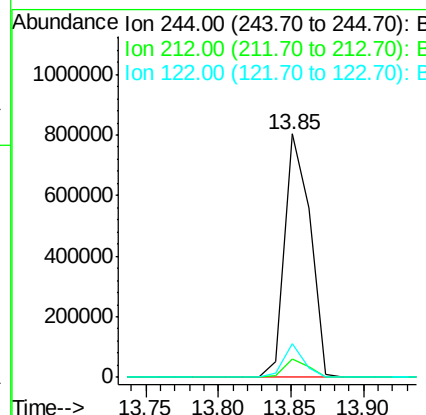
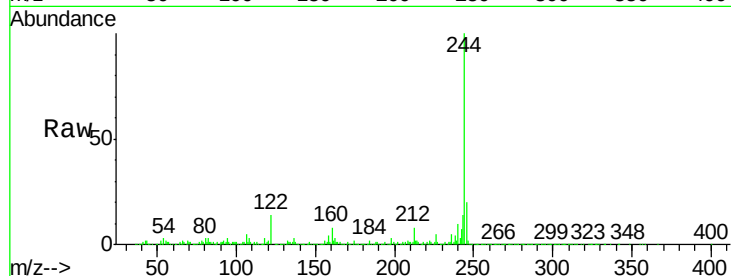




#78
 Terphenyl-d14
 Concen: 68.56 ng
 RT: 13.85 min Scan# 1108
 Delta R.T. 0.11 min
 Lab File: BF079730.D
 Acq: 5 Jun 2015 6:39

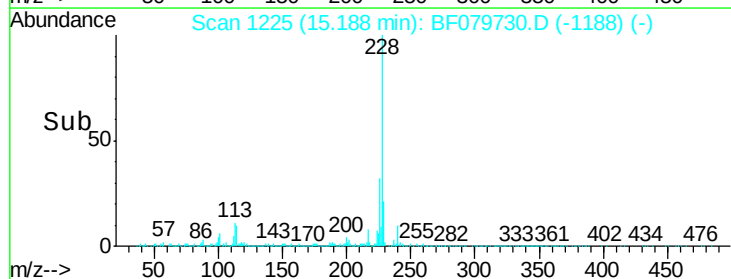
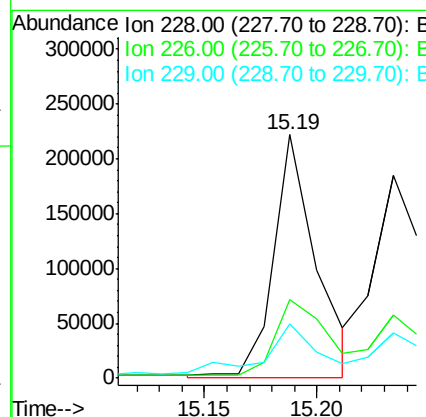
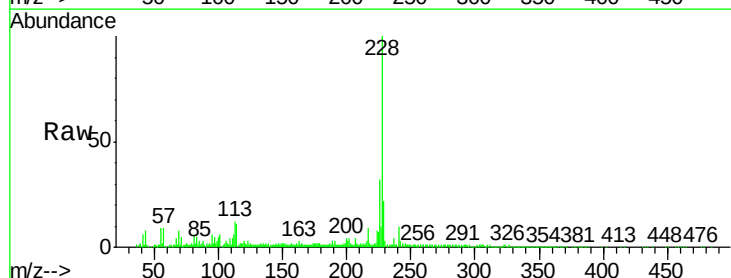
Instrument :
 BNA_F
 ClientSampled :
 SEC-3.2-SP

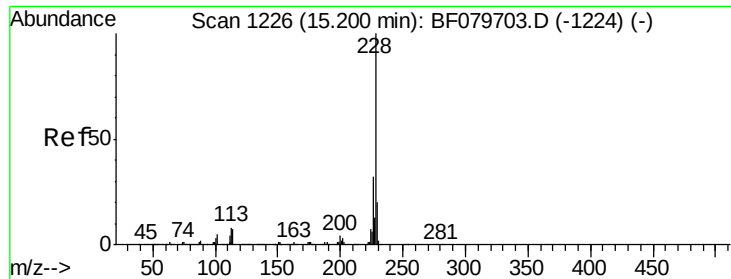
Tgt Ion:244 Resp: 978704
 Ion Ratio Lower Upper
 244 100
 212 7.8 6.1 9.1
 122 13.6 9.3 13.9



#80
 Benzo(a)anthracene
 Concen: 14.03 ng m
 RT: 15.19 min Scan# 1225
 Delta R.T. 0.22 min
 Lab File: BF079730.D
 Acq: 5 Jun 2015 6:39

Tgt Ion:228 Resp: 288442
 Ion Ratio Lower Upper
 228 100
 226 32.5 22.2 33.4
 229 22.1 16.6 25.0





#82

Chrysene

Concen: 14.51 ng m

RT: 15.23 min Scan# 1229

Delta R.T. 0.22 min

Lab File: BF079730.D

Acq: 5 Jun 2015 6:39

Instrument :

BNA_F

ClientSampleId :

SEC-3.2-SP

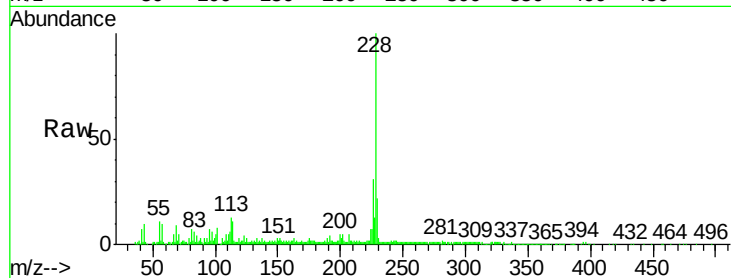
Tgt Ion:228 Resp: 279183

Ion Ratio Lower Upper

228 100

226 31.2 25.2 37.8

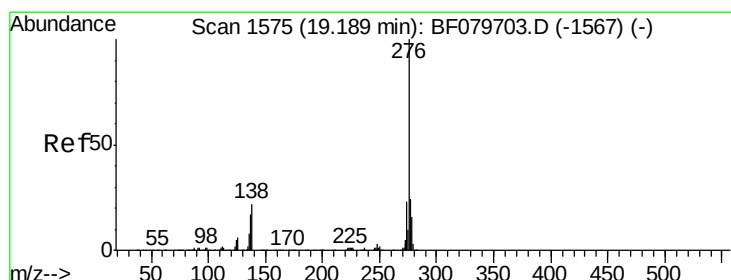
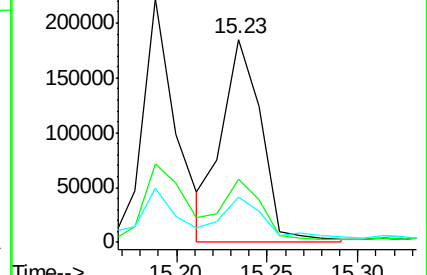
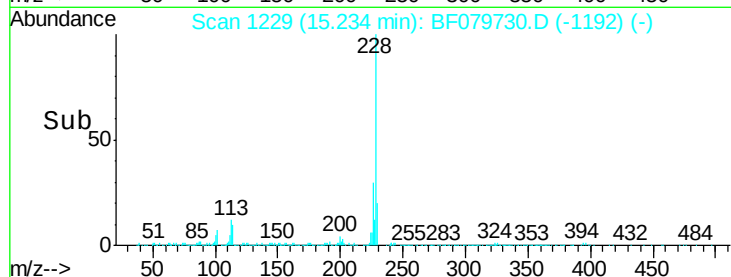
229 22.2 16.2 24.4



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: 9.10 ng m

RT: 19.26 min Scan# 1581

Delta R.T. 0.33 min

Lab File: BF079730.D

Acq: 5 Jun 2015 6:39

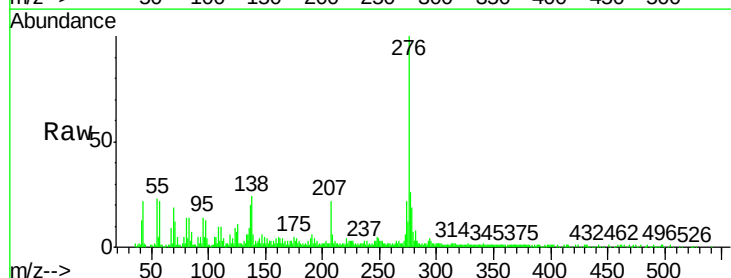
Tgt Ion:276 Resp: 197632

Ion Ratio Lower Upper

276 100

138 5.6 20.8 31.2#

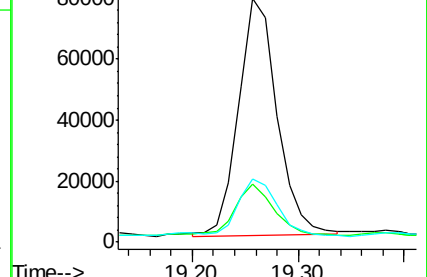
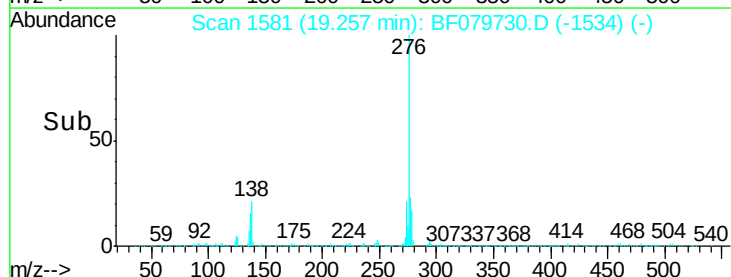
277 4.1 20.0 30.0#

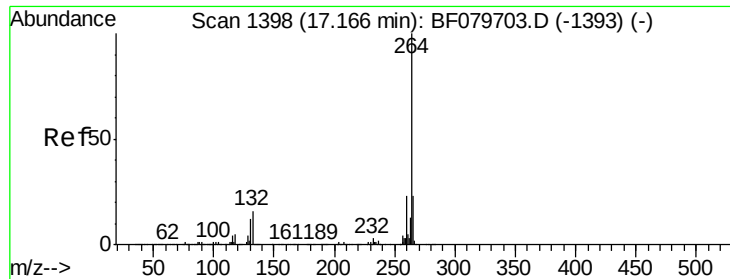


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

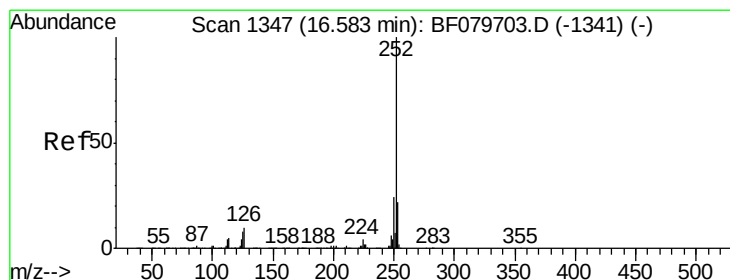
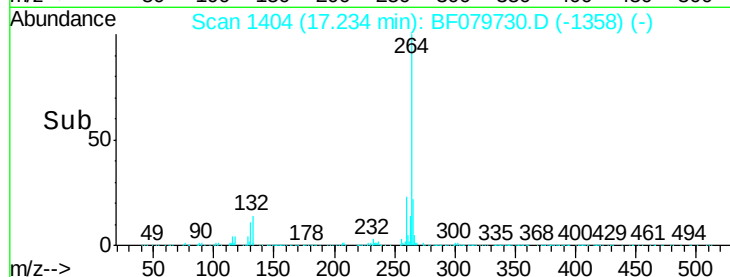
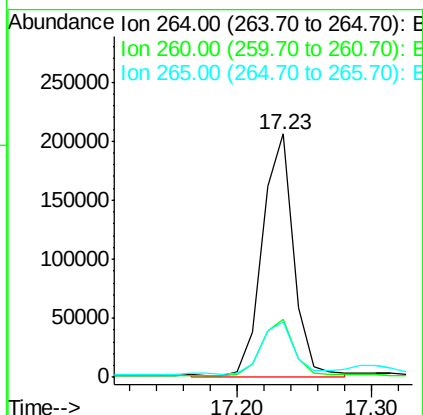
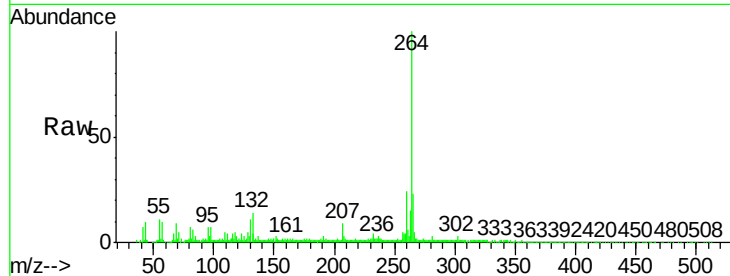




#86
Perylene-d12
Concen: 20.00 ng m
RT: 17.23 min Scan# 1404
Delta R.T. 0.32 min
Lab File: BF079730.D
Acq: 5 Jun 2015 6:39

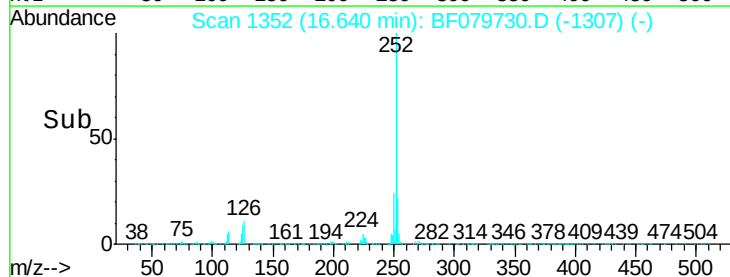
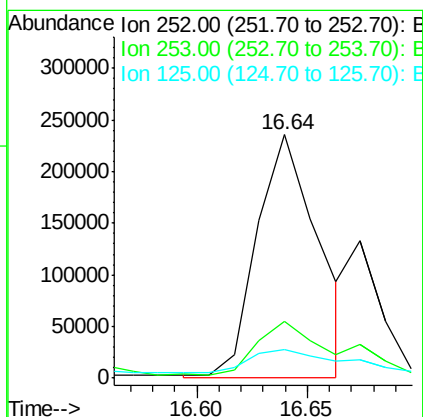
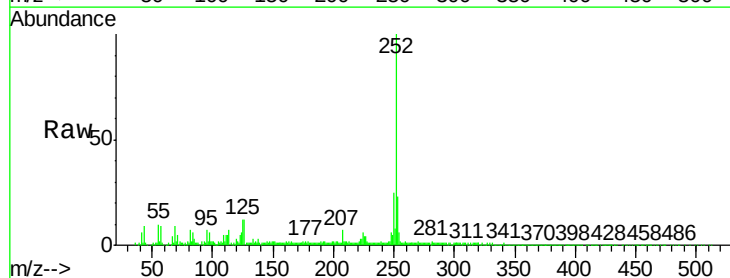
Instrument :
BNA_F
ClientSampleId :
SEC-3.2-SP

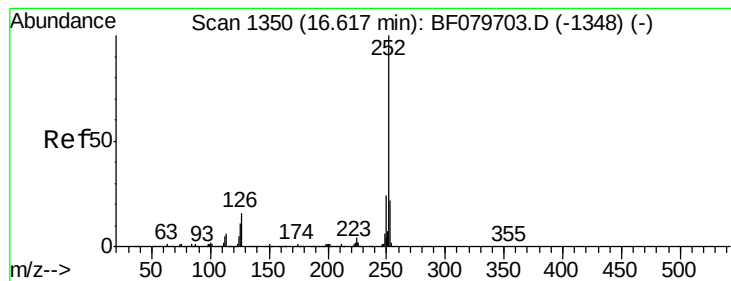
Tgt Ion:264 Resp: 336130
Ion Ratio Lower Upper
264 100
260 24.0 18.6 27.8
265 22.7 18.2 27.4



#87
Benzo(b)fluoranthene
Concen: 20.94 ng m
RT: 16.64 min Scan# 1352
Delta R.T. 0.31 min
Lab File: BF079730.D
Acq: 5 Jun 2015 6:39

Tgt Ion:252 Resp: 453961
Ion Ratio Lower Upper
252 100
253 23.2 17.4 26.2
125 11.9 6.5 9.7#





#88

Benzo(k)fluoranthene

Concen: 6.90 ng m

RT: 16.67 min Scan# 1355

Delta R.T. 0.30 min

Lab File: BF079730.D

Acq: 5 Jun 2015 6:39

Instrument :

BNA_F

ClientSampleId :

SEC-3.2-SP

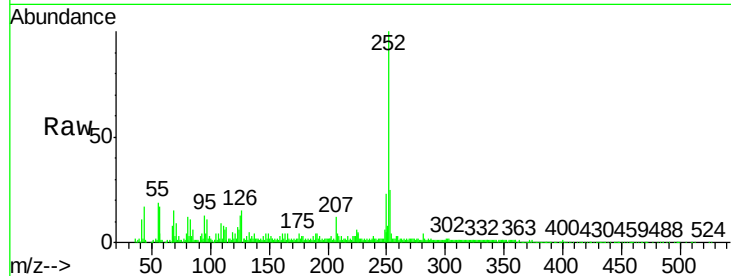
Tgt Ion:252 Resp: 142779

Ion Ratio Lower Upper

252 100

253 24.6 17.8 26.8

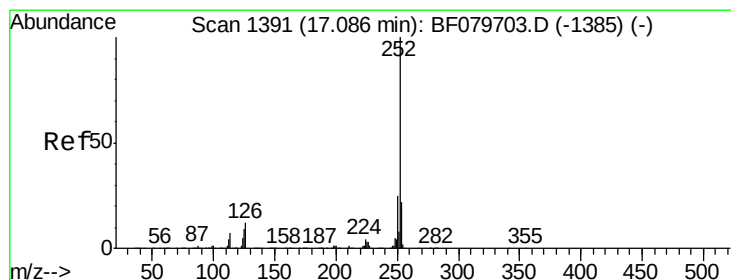
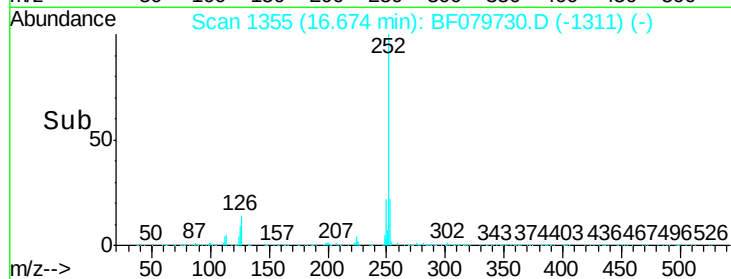
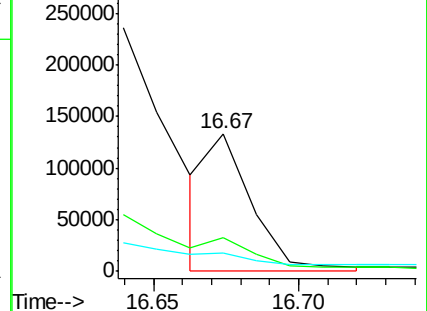
125 13.3 8.4 12.6#



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



#89

Benzo(a)pyrene

Concen: 12.69 ng m

RT: 17.14 min Scan# 1396

Delta R.T. 0.31 min

Lab File: BF079730.D

Acq: 5 Jun 2015 6:39

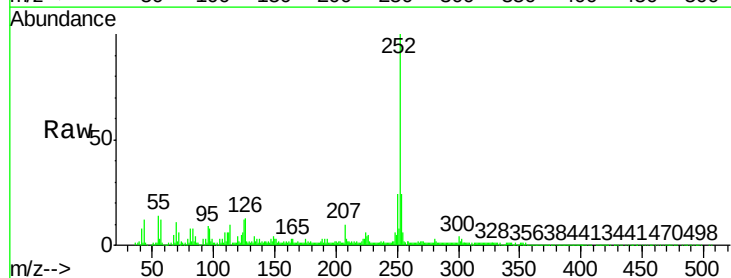
Tgt Ion:252 Resp: 251368

Ion Ratio Lower Upper

252 100

253 23.7 17.6 26.4

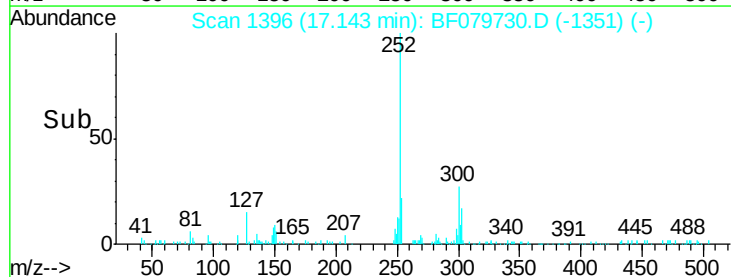
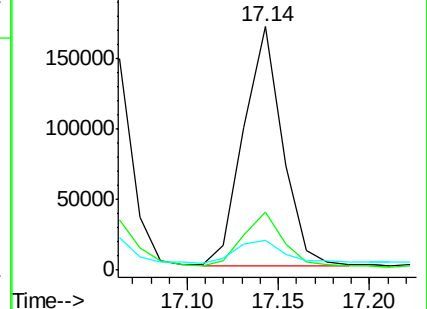
125 12.3 7.4 11.0#

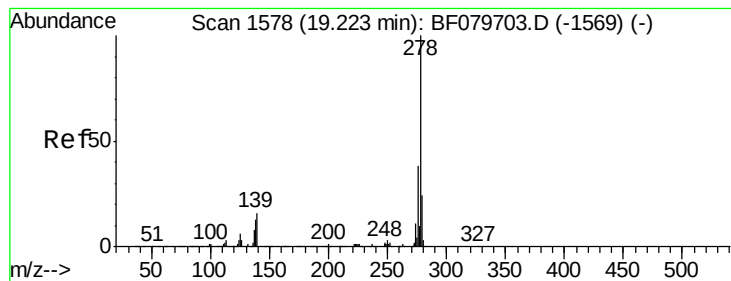


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#90

Dibenzo(a,h)anthracene

Concen: 3.58 ng m

RT: 19.28 min Scan# 1583

Delta R.T. 0.33 min

Lab File: BF079730.D

Acq: 5 Jun 2015 6:39

Instrument :

BNA_F

ClientSampleId :

SEC-3.2-SP

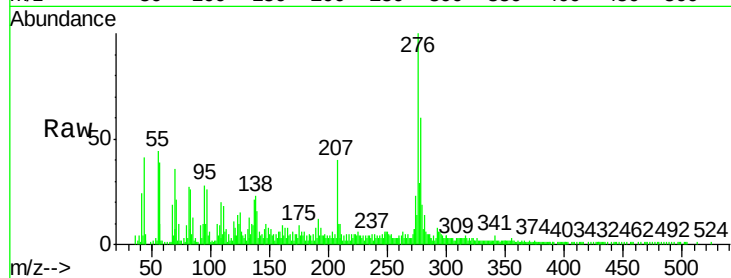
Tgt Ion:278 Resp: 65569

Ion Ratio Lower Upper

278 100

139 27.4 12.7 19.1#

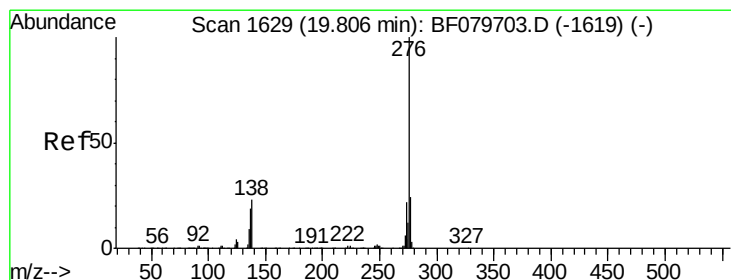
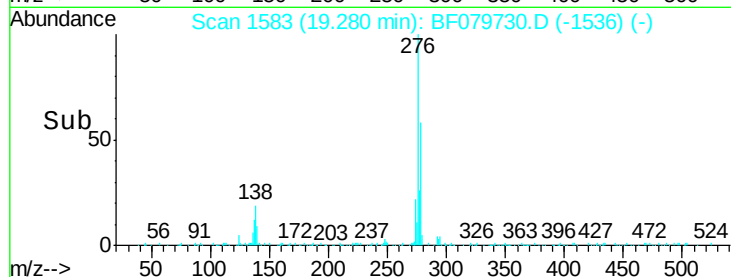
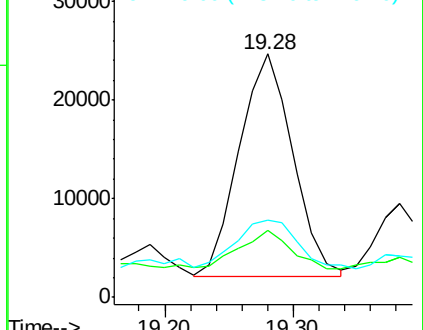
279 31.8 19.4 29.2#



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: 10.68 ng m

RT: 19.87 min Scan# 1635

Delta R.T. 0.34 min

Lab File: BF079730.D

Acq: 5 Jun 2015 6:39

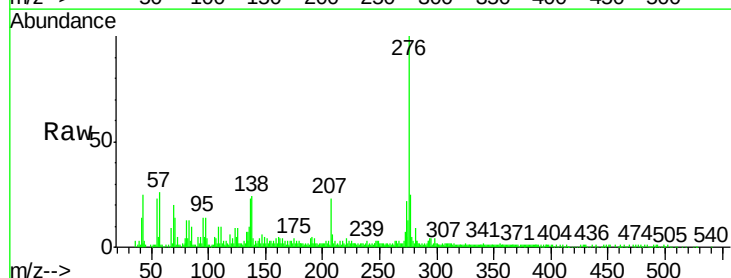
Tgt Ion:276 Resp: 199842

Ion Ratio Lower Upper

276 100

277 25.0 18.8 28.2

138 24.1 18.2 27.2



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

