

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF050715\
 Data File : BF079012.D
 Acq On : 7 May 2015 22:58
 Operator : TP/IZ
 Sample : G2116-10
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-45D

Quant Time: May 08 01:09:50 2015
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF043015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri May 08 00:46:40 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.35	152	57854	20.00	ng	0.01
21) Naphthalene-d8	8.92	136	235974	20.00	ng	0.01
38) Acenaphthene-d10	11.10	164	118873	20.00	ng	0.00
63) Phenanthrene-d10	12.95	188	233859	20.00	ng	0.01
75) Chrysene-d12	16.24	240	255613	20.00	ng	-0.03
86) Perylene-d12	17.99	264	281294	20.00	ng	-0.15

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.64	112	384848	114.51	ng	0.01
7) Phenol-d6	6.90	99	515094	115.95	ng	0.01
23) Nitrobenzene-d5	8.03	82	293946	71.59	ng	0.00
41) 2,4,6-Tribromophenol	12.08	330	143353	111.47	ng	0.00
44) 2-Fluorobiphenyl	10.26	172	524547	61.48	ng	0.00
78) Terphenyl-d14	14.95	244	623551	58.40	ng	0.01

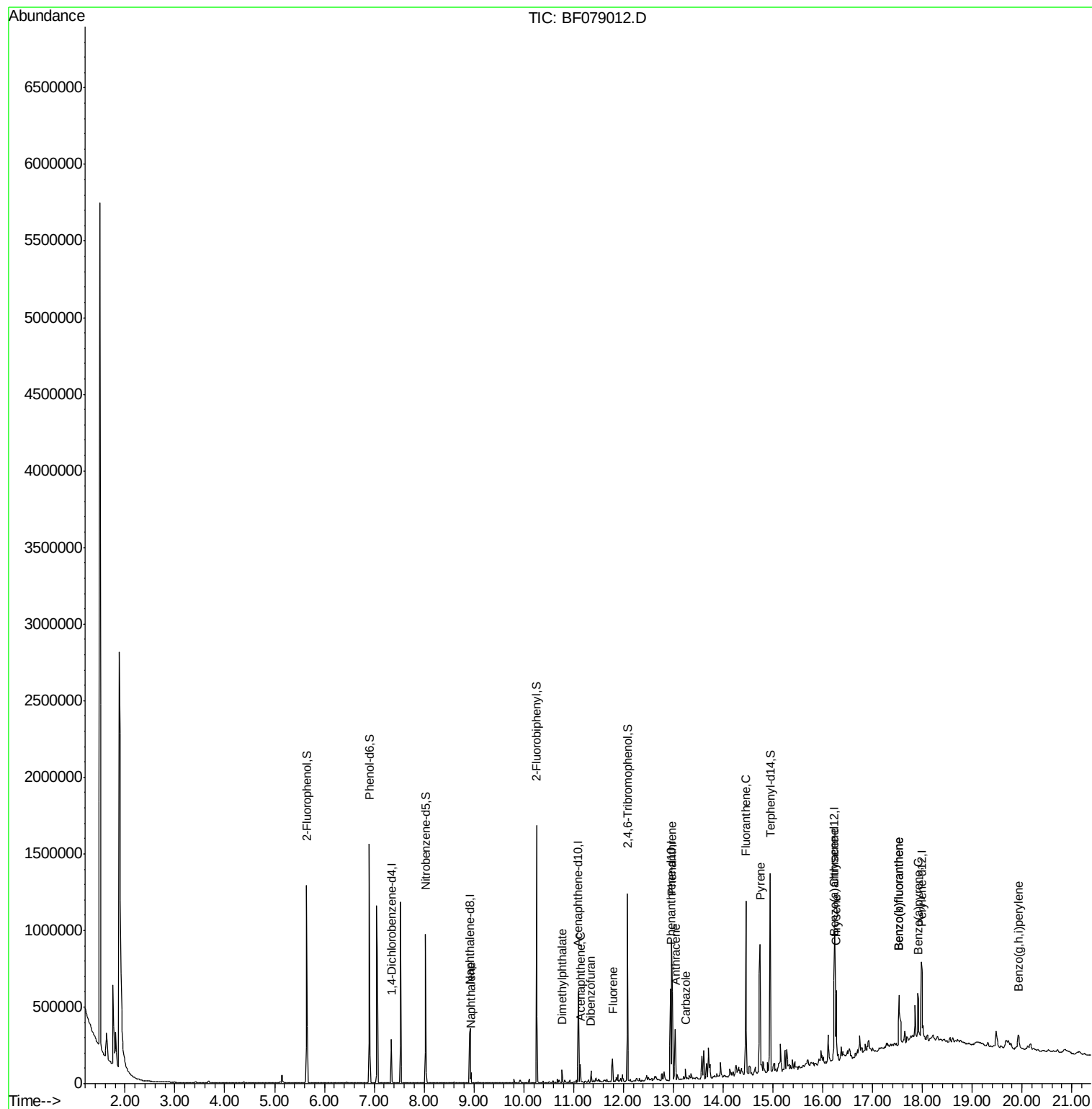
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
31) Naphthalene	8.95	128	29667	2.64	ng	99
49) Dimethylphthalate	10.76	163	36953	4.24	ng	99
51) Acenaphthene	11.14	154	38684	5.36	ng	97
54) Dibenzofuran	11.35	168	31748	3.05	ng	95
57) Fluorene	11.78	166	47799	5.59	ng	100
70) Phenanthrene	12.97	178	443432	33.89	ng	99
71) Anthracene	13.04	178	130173	10.14	ng	99
72) Carbazole	13.25	167	28371	2.32	ng	99
74) Fluoranthene	14.46	202	476399	34.95	ng	98
77) Pyrene	14.74	202	439714	29.85	ng	99
80) Benzo(a)anthracene	16.23	228	221487	15.82	ng	99
82) Chrysene	16.27	228	176262	13.09	ng	97
87) Benzo(b)fluoranthene	17.53	252	232830	15.12	ng	99
88) Benzo(k)fluoranthene	17.53	252	281934	18.92	ng	99
89) Benzo(a)pyrene	17.92	252	167528	11.82	ng	98
91) Benzo(g,h,i)perylene	19.93	276	77922	5.16	ng	97

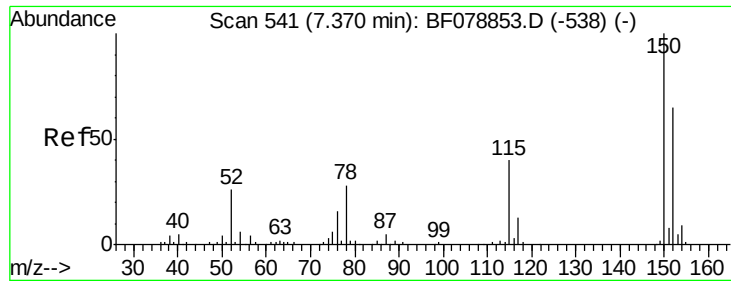
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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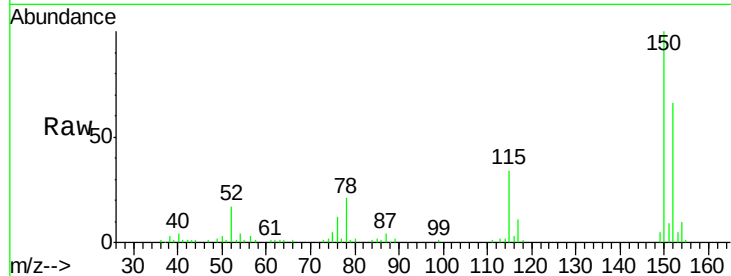




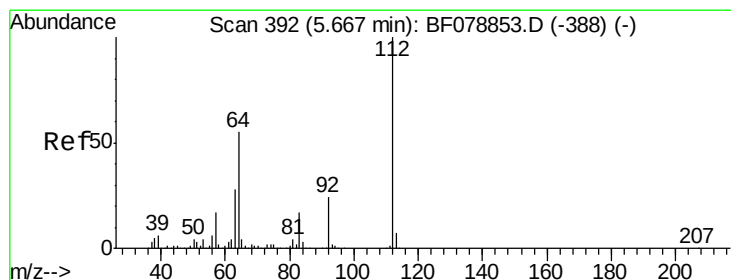
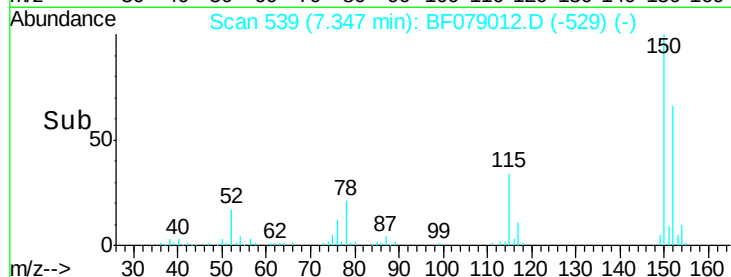
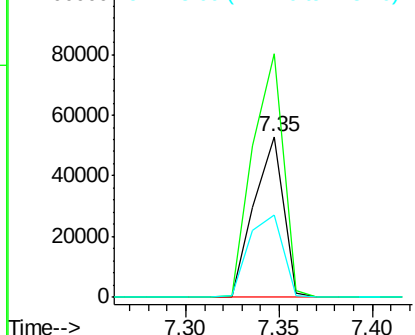
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 7.35 min Scan# 539
 Delta R.T. 0.01 min
 Lab File: BF079012.D
 Acq: 7 May 2015 22:58

Instrument :
 BNA_F
 ClientSampleId :
 SB-45D

Tgt Ion:152 Resp: 57854
 Ion Ratio Lower Upper
 152 100
 150 151.5 122.0 183.0
 115 51.6 46.3 69.5

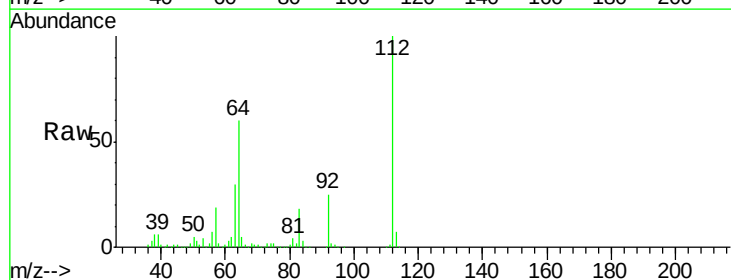


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

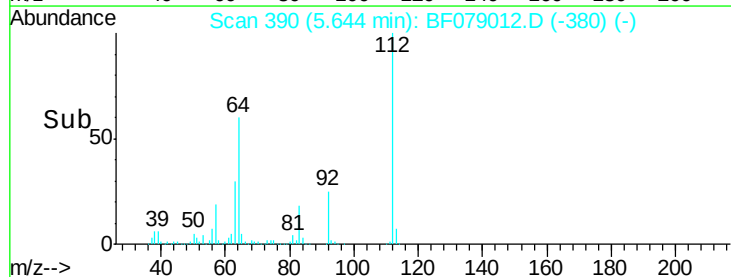
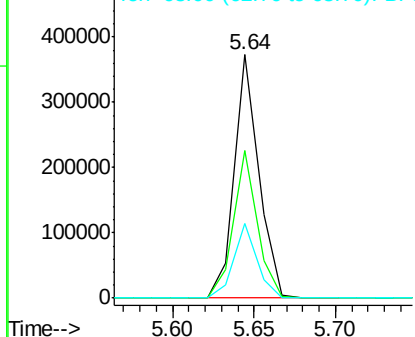


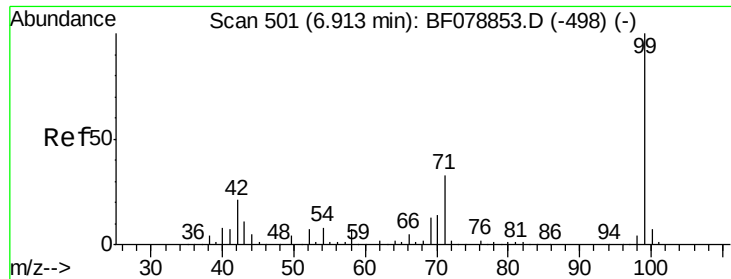
#5
 2-Fluorophenol
 Concen: 114.51 ng
 RT: 5.64 min Scan# 390
 Delta R.T. 0.01 min
 Lab File: BF079012.D
 Acq: 7 May 2015 22:58

Tgt Ion:112 Resp: 384848
 Ion Ratio Lower Upper
 112 100
 64 60.4 53.5 80.3
 63 30.4 27.5 41.3



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF0
 Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 115.95 ng

RT: 6.90 min Scan# 500

Delta R.T. 0.01 min

Lab File: BF079012.D

Acq: 7 May 2015 22:58

Instrument :

BNA_F

ClientSampleId :

SB-45D

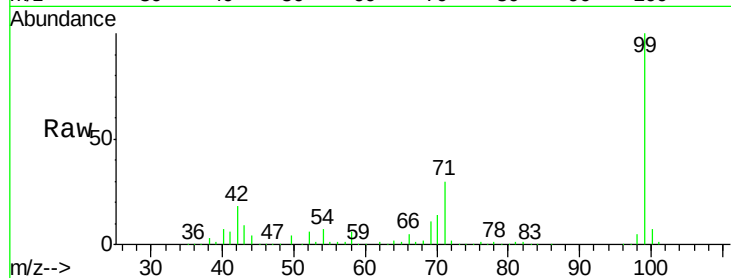
Tgt Ion: 99 Resp: 515094

Ion Ratio Lower Upper

99 100

42 17.7 12.8 19.2

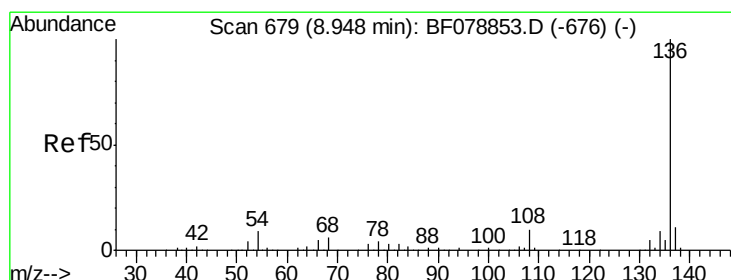
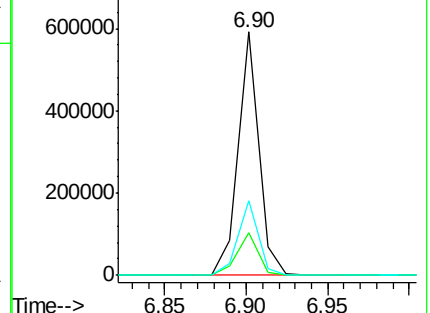
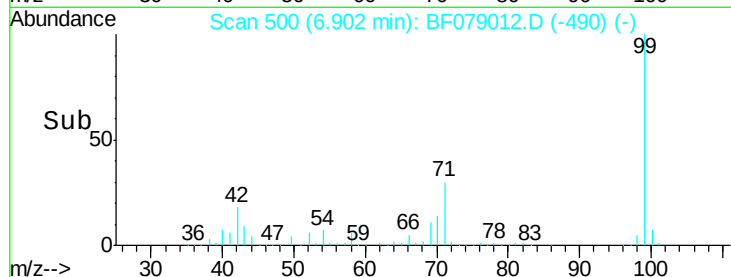
71 30.5 23.4 35.2



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: 8.92 min Scan# 677

Delta R.T. 0.01 min

Lab File: BF079012.D

Acq: 7 May 2015 22:58

Tgt Ion: 136 Resp: 235974

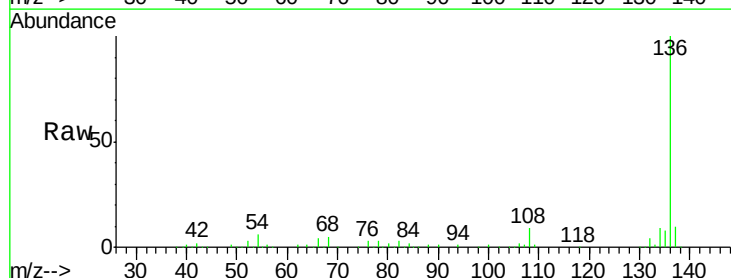
Ion Ratio Lower Upper

136 100

137 10.3 8.7 13.1

54 5.7 5.8 8.8#

68 4.6 4.2 6.4

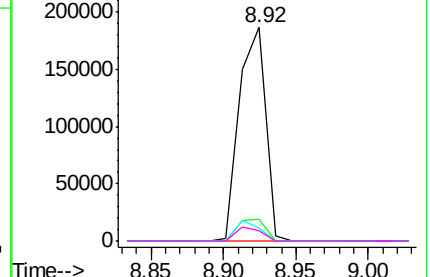
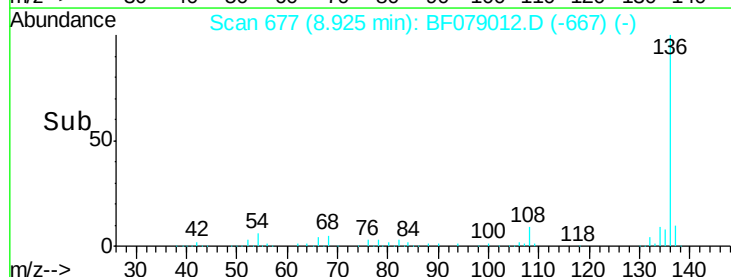


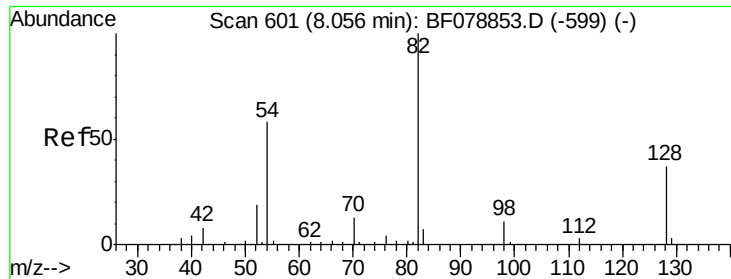
Abundance Ion 136.00 (135.70 to 136.70): E

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

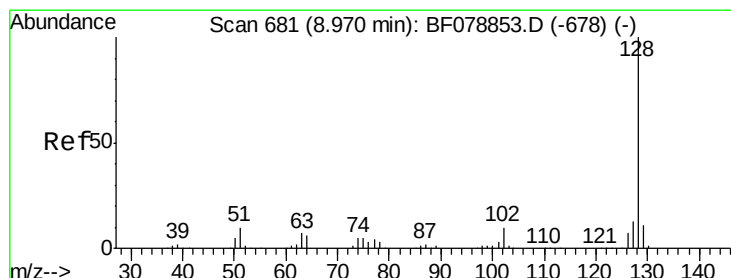
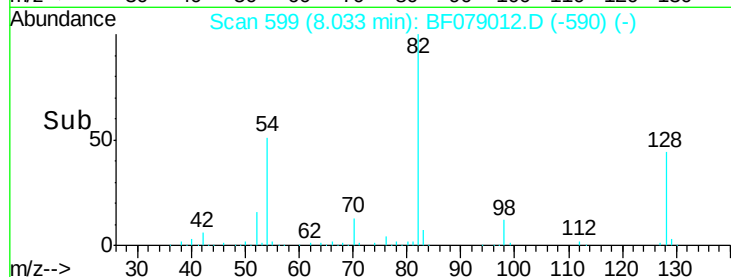
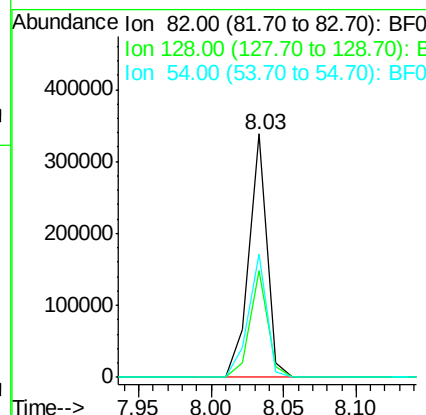
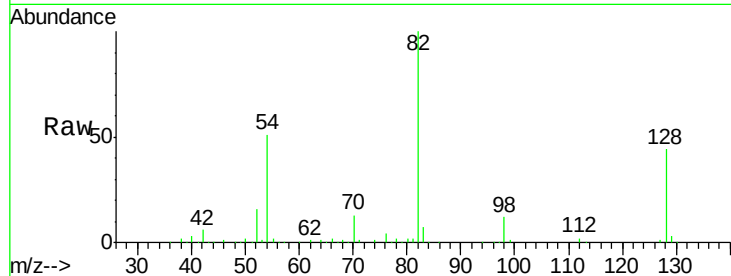




#23
 Nitrobenzene-d5
 Concen: 71.59 ng
 RT: 8.03 min Scan# 599
 Delta R.T. -0.00 min
 Lab File: BF079012.D
 Acq: 7 May 2015 22:58

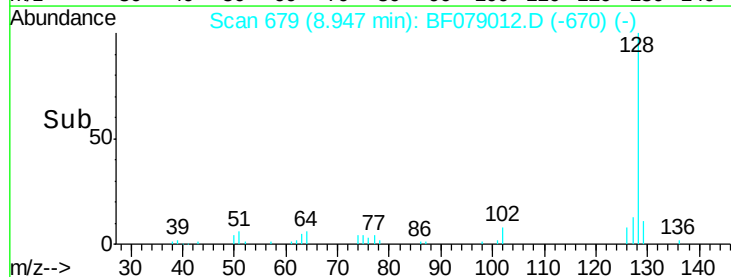
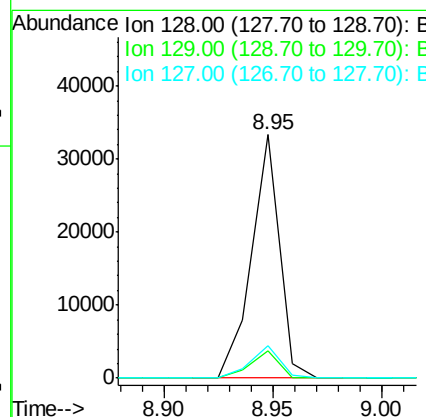
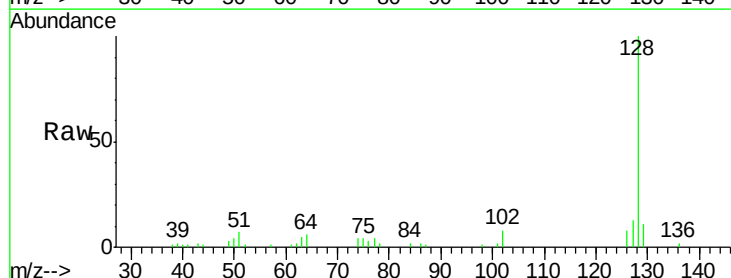
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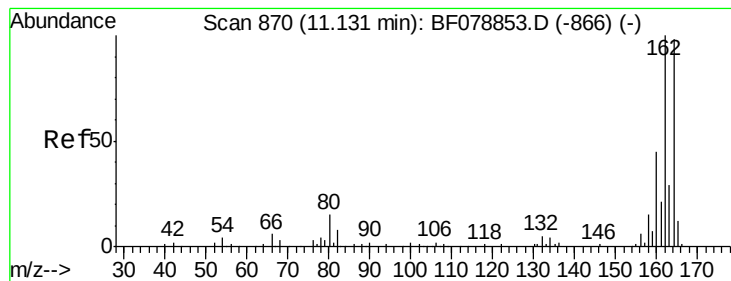
Tgt Ion: 82 Resp: 293946
 Ion Ratio Lower Upper
 82 100
 128 44.0 30.0 45.0
 54 50.7 46.4 69.6



#31
 Naphthalene
 Concen: 2.64 ng
 RT: 8.95 min Scan# 679
 Delta R.T. -0.00 min
 Lab File: BF079012.D
 Acq: 7 May 2015 22:58

Tgt Ion: 128 Resp: 29667
 Ion Ratio Lower Upper
 128 100
 129 11.3 9.3 13.9
 127 13.2 10.7 16.1





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 11.10 min Scan# 867

Delta R.T. -0.00 min

Lab File: BF079012.D

Acq: 7 May 2015 22:58

Instrument :

BNA_F

ClientSampleId :

SB-45D

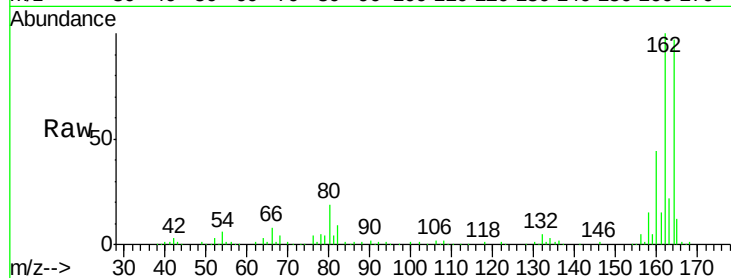
Tgt Ion:164 Resp: 118873

Ion Ratio Lower Upper

164 100

162 102.7 82.7 124.1

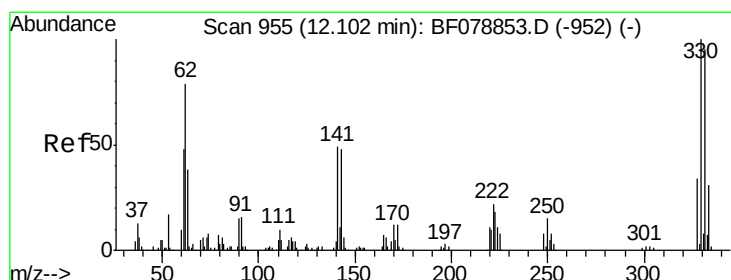
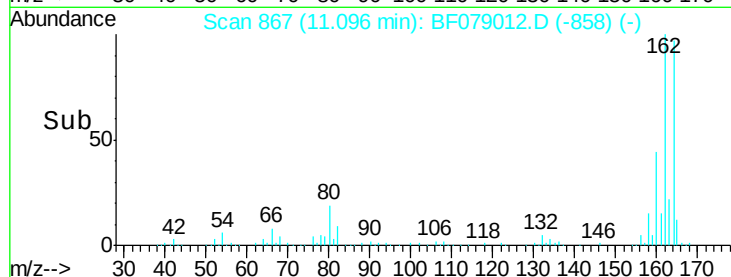
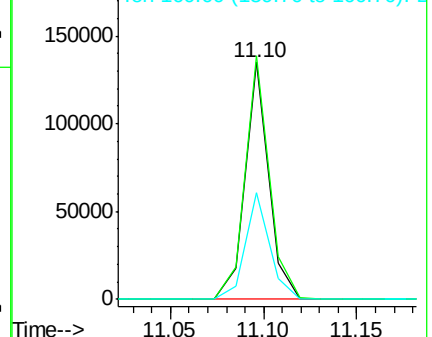
160 44.9 35.8 53.8



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 111.47 ng

RT: 12.08 min Scan# 953

Delta R.T. -0.00 min

Lab File: BF079012.D

Acq: 7 May 2015 22:58

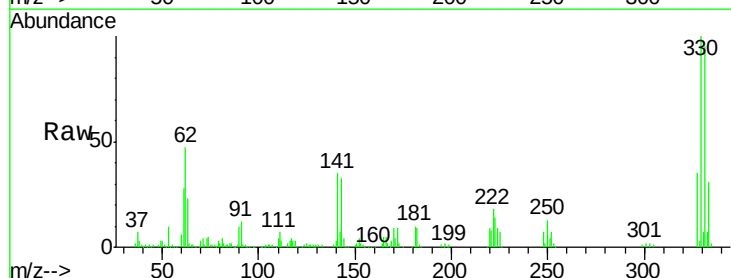
Tgt Ion:330 Resp: 143353

Ion Ratio Lower Upper

330 100

332 95.7 0.0 0.0#

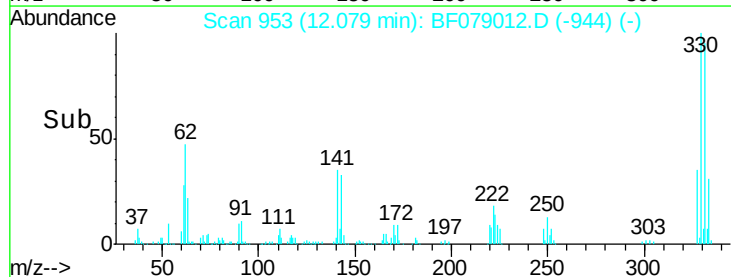
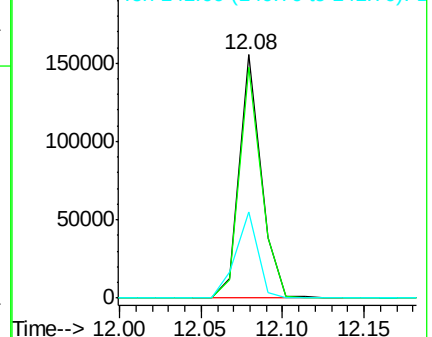
141 37.3 0.0 0.0#

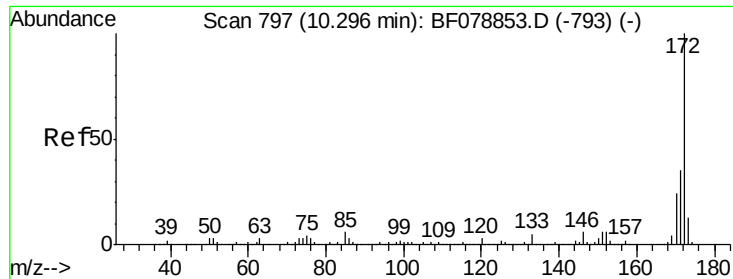


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

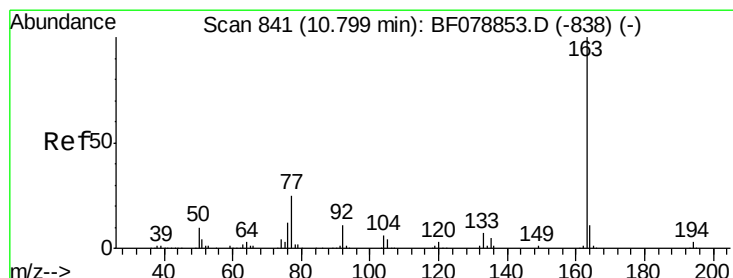
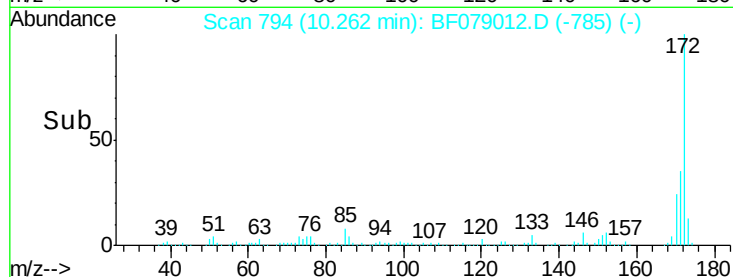
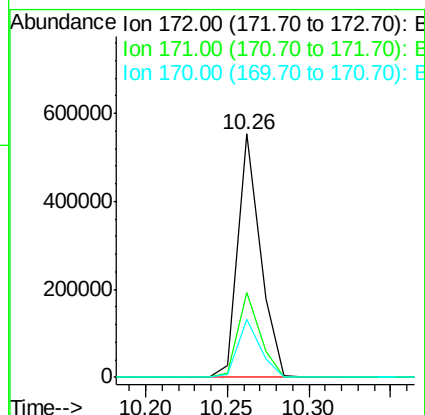
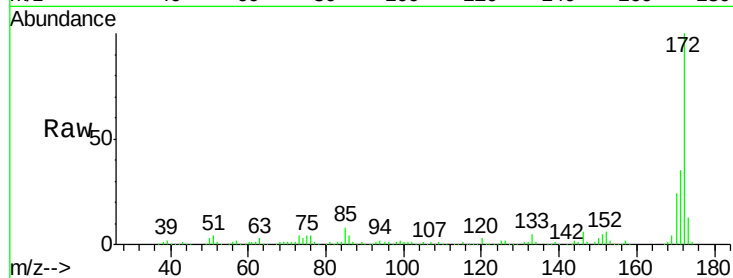




#44
 2-Fluorobiphenyl
 Concen: 61.48 ng
 RT: 10.26 min Scan# 794
 Delta R.T. -0.00 min
 Lab File: BF079012.D
 Acq: 7 May 2015 22:58

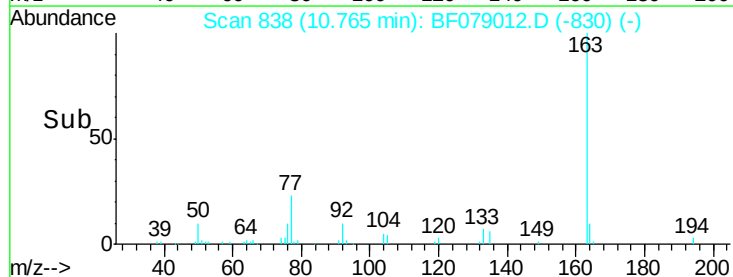
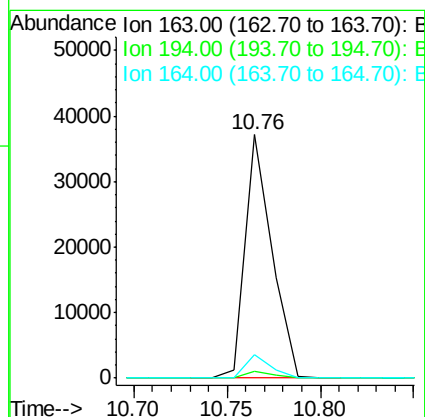
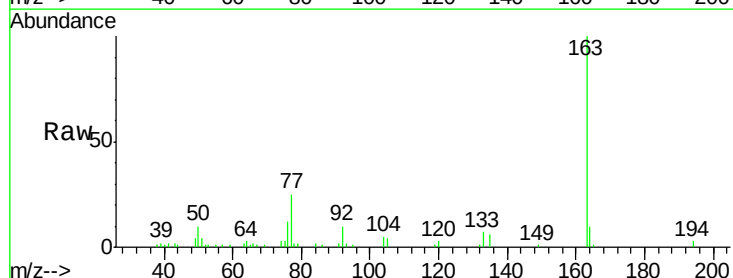
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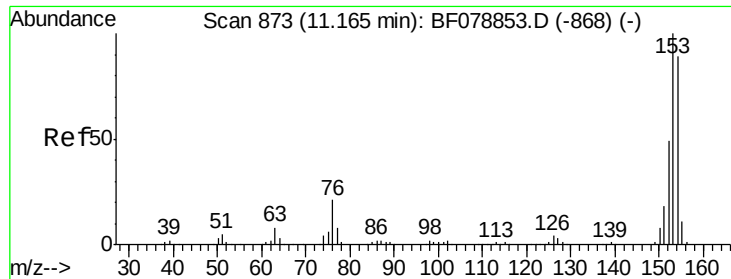
Tgt Ion:172 Resp: 524547
 Ion Ratio Lower Upper
 172 100
 171 35.0 27.9 41.9
 170 23.8 19.4 29.0



#49
 Dimethylphthalate
 Concen: 4.24 ng
 RT: 10.76 min Scan# 838
 Delta R.T. -0.01 min
 Lab File: BF079012.D
 Acq: 7 May 2015 22:58

Tgt Ion:163 Resp: 36953
 Ion Ratio Lower Upper
 163 100
 194 2.7 2.6 4.0
 164 9.6 8.1 12.1





#51

Acenaphthene

Concen: 5.36 ng

RT: 11.14 min Scan# 871

Delta R.T. 0.01 min

Lab File: BF079012.D

Acq: 7 May 2015 22:58

Instrument :

BNA_F

ClientSampleId :

SB-45D

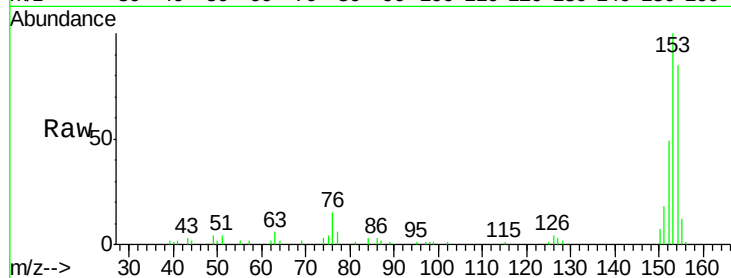
Tgt Ion:154 Resp: 38684

Ion Ratio Lower Upper

154 100

153 117.1 91.5 137.3

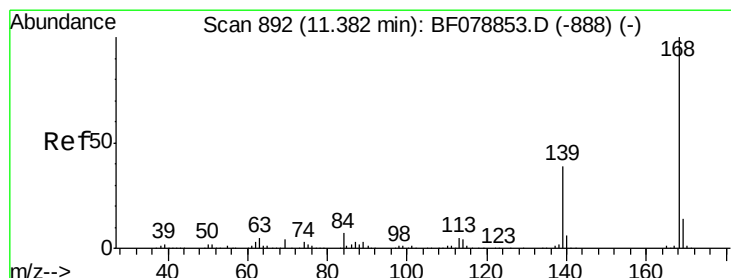
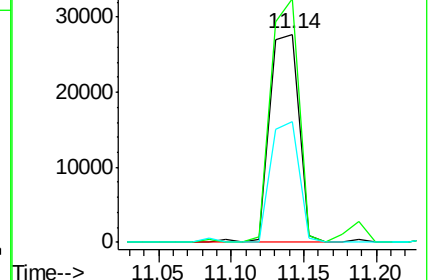
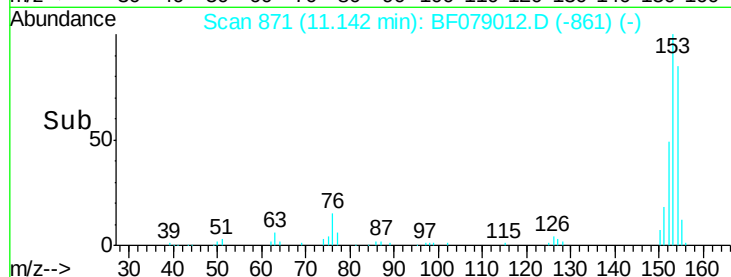
152 57.8 44.2 66.4



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: 3.05 ng

RT: 11.35 min Scan# 889

Delta R.T. -0.00 min

Lab File: BF079012.D

Acq: 7 May 2015 22:58

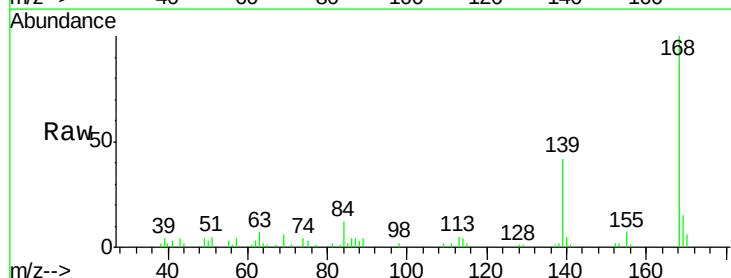
Tgt Ion:168 Resp: 31748

Ion Ratio Lower Upper

168 100

139 42.2 31.0 46.4

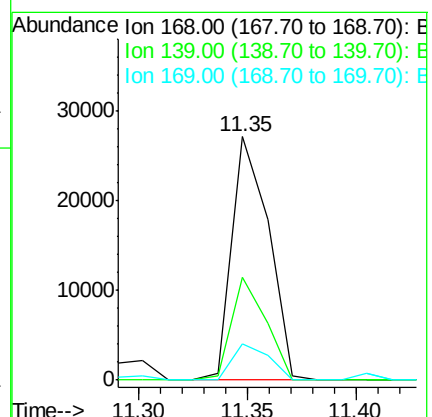
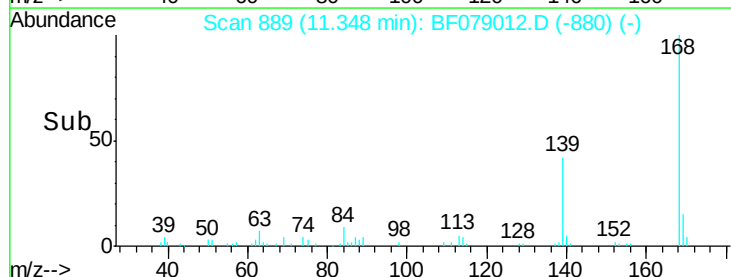
169 14.8 10.6 16.0

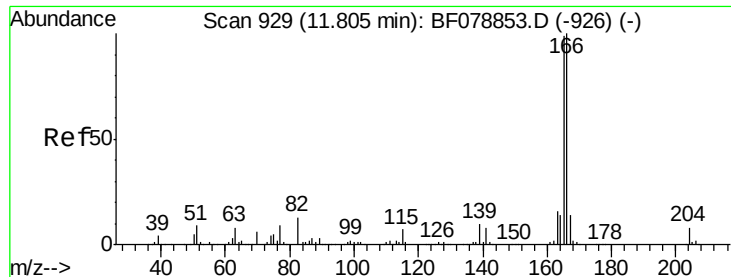


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E

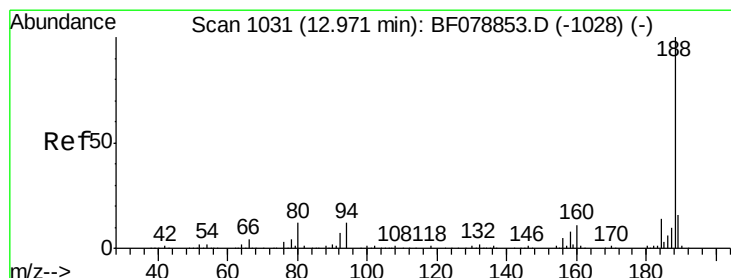
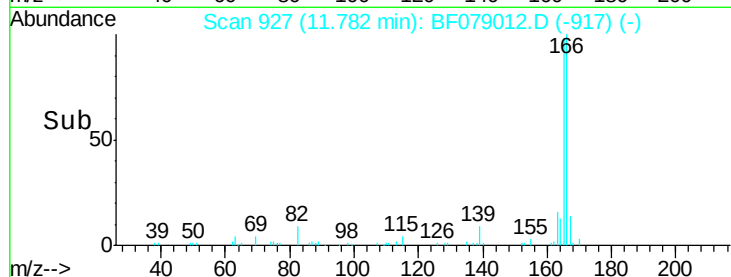
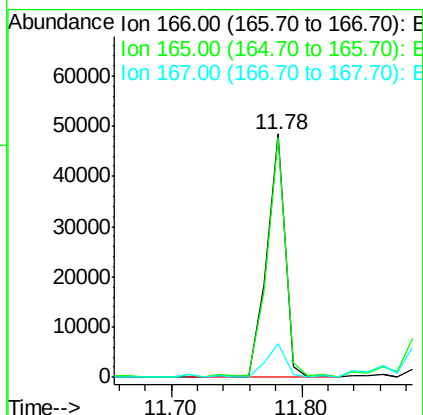
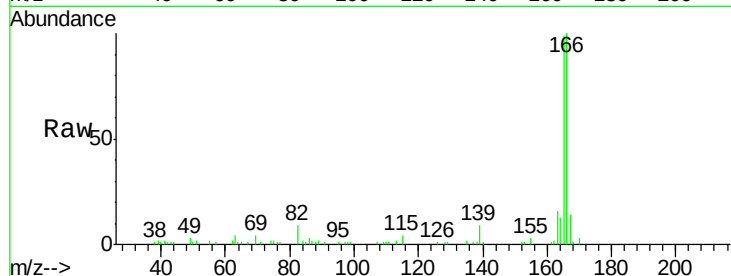




#57
 Fluorene
 Concen: 5.59 ng
 RT: 11.78 min Scan# 927
 Delta R.T. 0.01 min
 Lab File: BF079012.D
 Acq: 7 May 2015 22:58

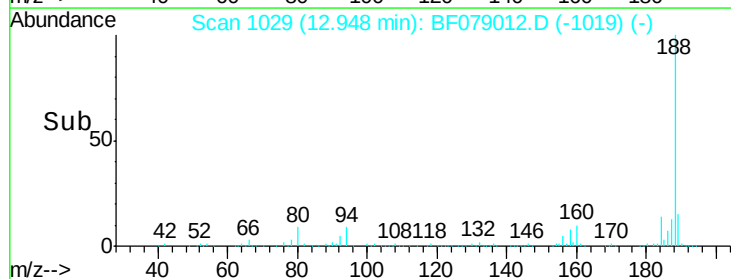
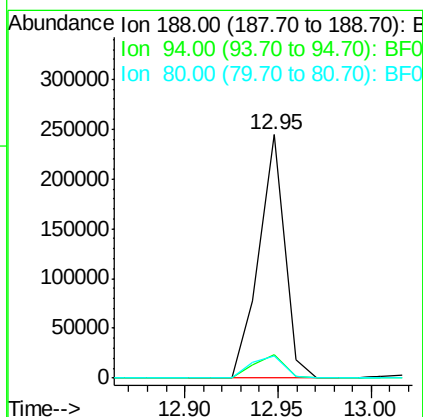
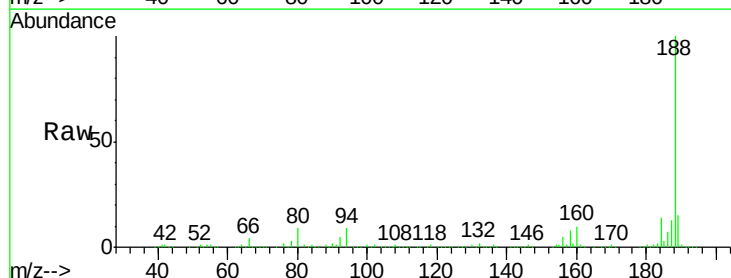
Instrument :
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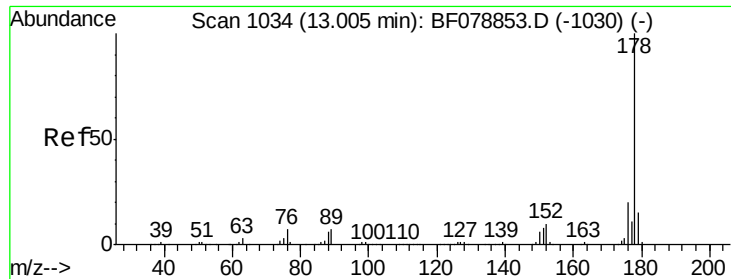
Tgt Ion:166 Resp: 47799
 Ion Ratio Lower Upper
 166 100
 165 98.6 78.5 117.7
 167 13.8 11.0 16.6



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 12.95 min Scan# 1029
 Delta R.T. 0.01 min
 Lab File: BF079012.D
 Acq: 7 May 2015 22:58

Tgt Ion:188 Resp: 233859
 Ion Ratio Lower Upper
 188 100
 94 9.5 8.2 12.2
 80 9.3 8.9 13.3





#70

Phenanthrene

Concen: 33.89 ng

RT: 12.97 min Scan# 1031

Delta R.T. -0.00 min

Lab File: BF079012.D

Acq: 7 May 2015 22:58

Instrument :

BNA_F

ClientSampleId :

SB-45D

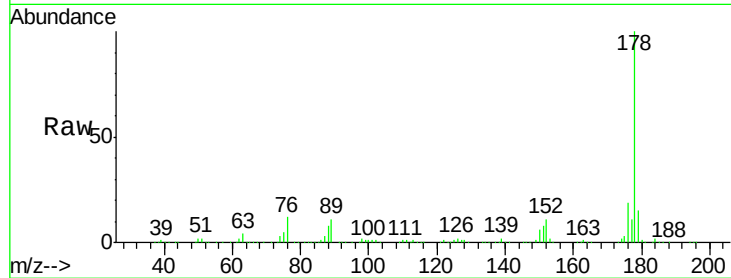
Tgt Ion:178 Resp: 443432

Ion Ratio Lower Upper

178 100

176 19.1 15.8 23.8

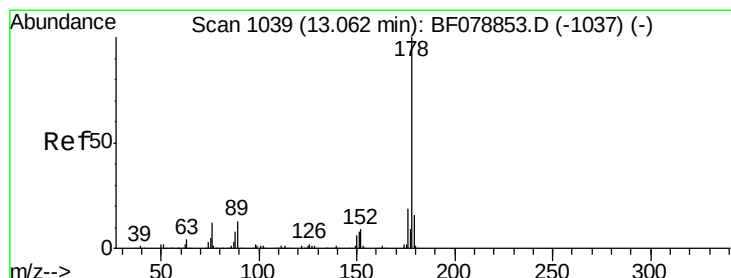
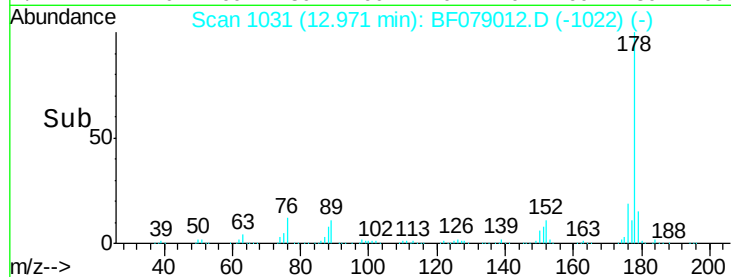
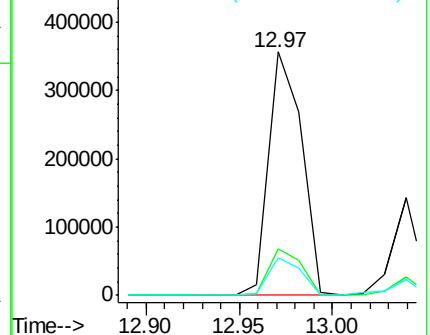
179 15.5 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#71

Anthracene

Concen: 10.14 ng

RT: 13.04 min Scan# 1037

Delta R.T. -0.00 min

Lab File: BF079012.D

Acq: 7 May 2015 22:58

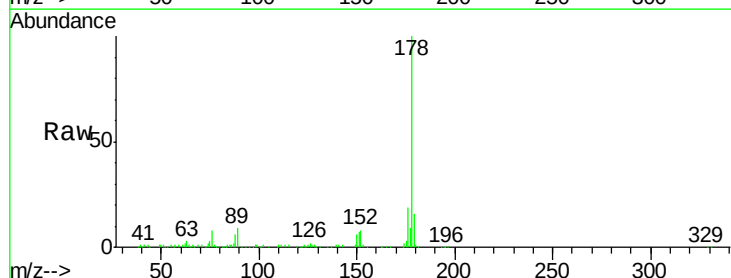
Tgt Ion:178 Resp: 130173

Ion Ratio Lower Upper

178 100

176 18.5 15.5 23.3

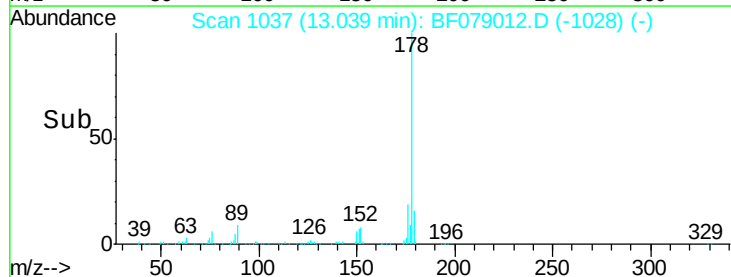
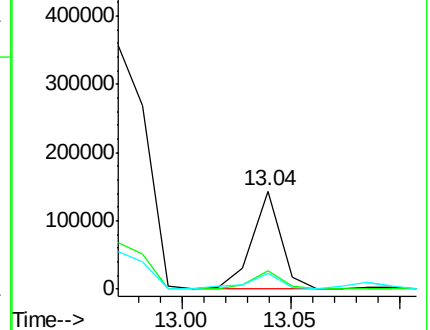
179 15.6 12.7 19.1

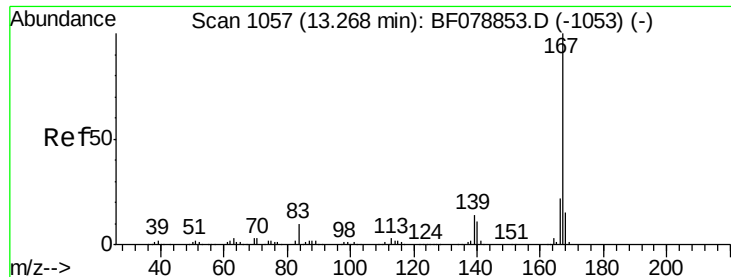


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 2.32 ng

RT: 13.25 min Scan# 1055

Delta R.T. -0.00 min

Lab File: BF079012.D

Acq: 7 May 2015 22:58

Instrument :

BNA_F

ClientSampleId :

SB-45D

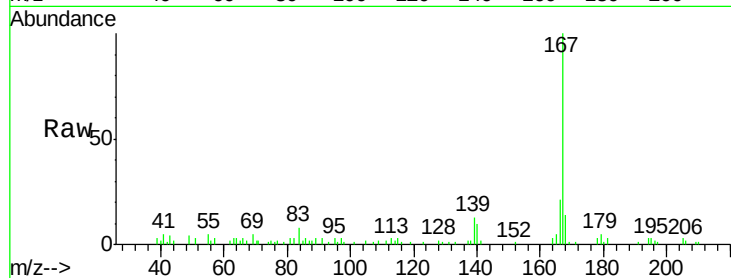
Tgt Ion:167 Resp: 28371

Ion Ratio Lower Upper

167 100

166 21.4 17.8 26.8

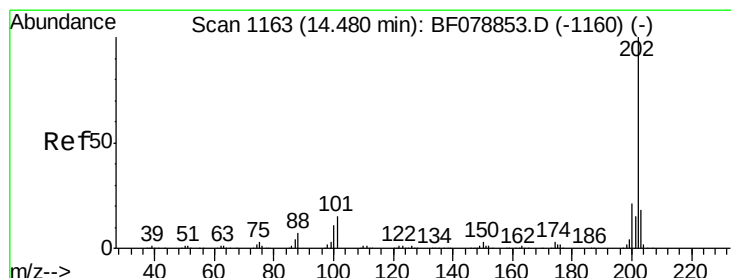
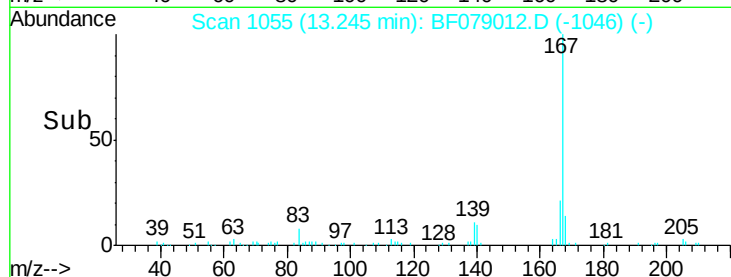
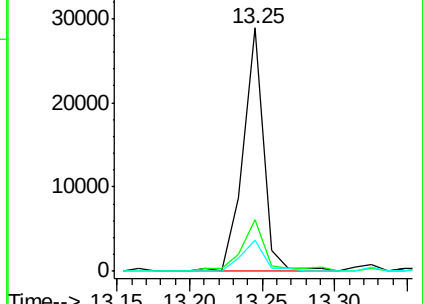
139 12.9 10.6 16.0



Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E



#74

Fluoranthene

Concen: 34.95 ng

RT: 14.46 min Scan# 1161

Delta R.T. -0.00 min

Lab File: BF079012.D

Acq: 7 May 2015 22:58

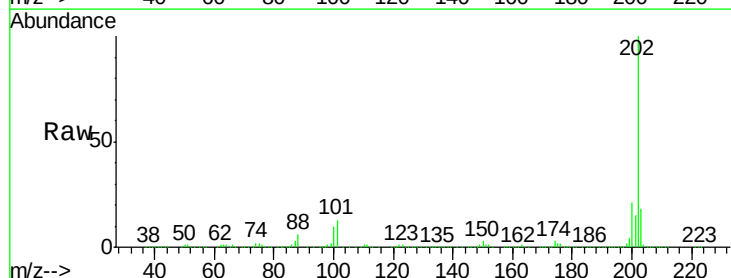
Tgt Ion:202 Resp: 476399

Ion Ratio Lower Upper

202 100

101 13.3 0.0 34.6

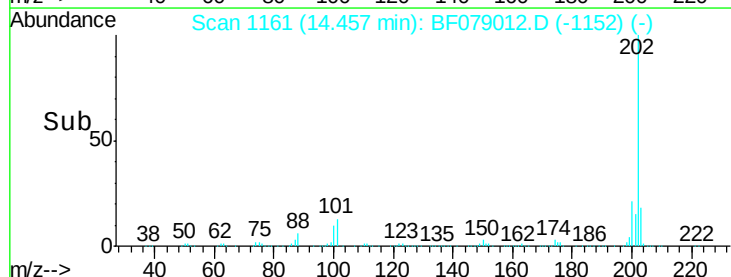
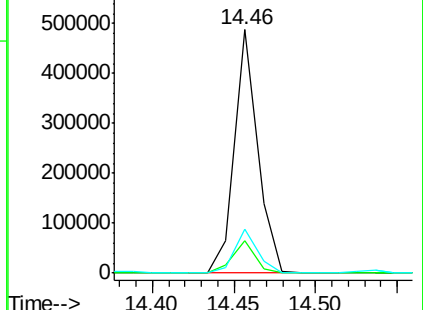
203 18.0 0.0 38.4

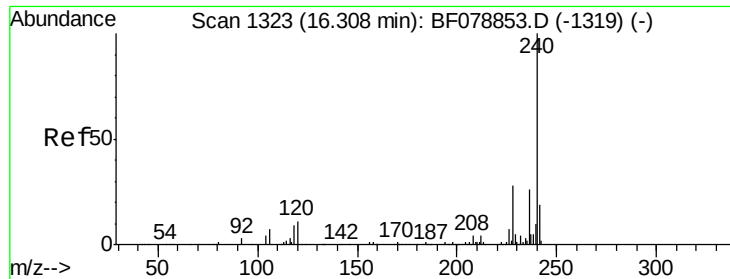


Abundance Ion 202.00 (201.70 to 202.70): E

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

RT: 16.24 min Scan# 1317

Delta R.T. -0.03 min

Lab File: BF079012.D

Acq: 7 May 2015 22:58

Instrument :

BNA_F

ClientSampleId :

SB-45D

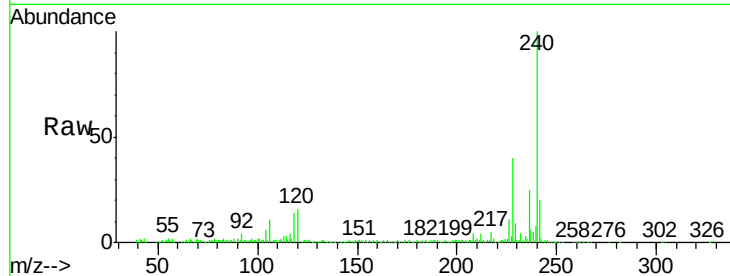
Tgt Ion:240 Resp: 255613

Ion Ratio Lower Upper

240 100

120 15.6 9.7 14.5#

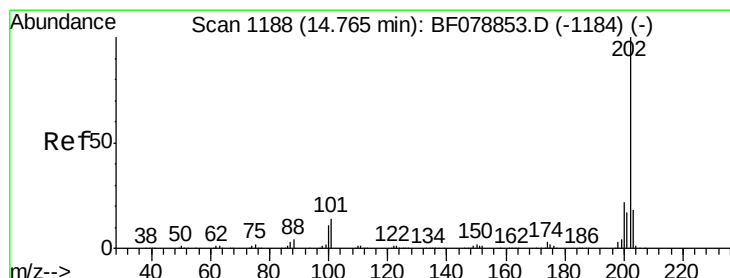
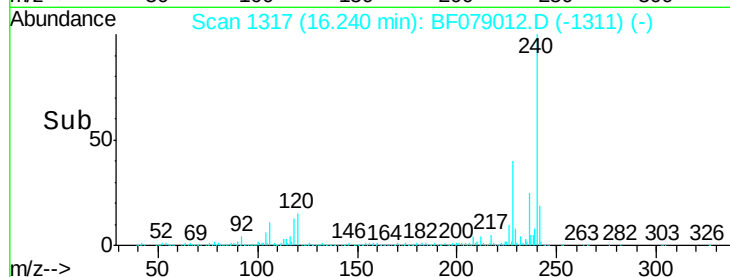
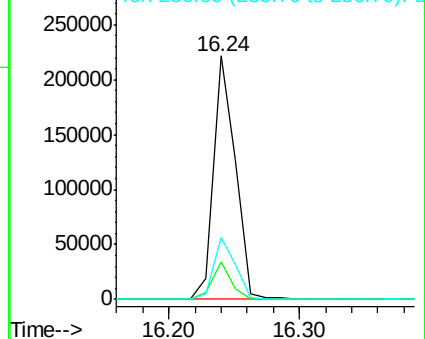
236 25.4 20.2 30.4



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 29.85 ng

RT: 14.74 min Scan# 1186

Delta R.T. 0.01 min

Lab File: BF079012.D

Acq: 7 May 2015 22:58

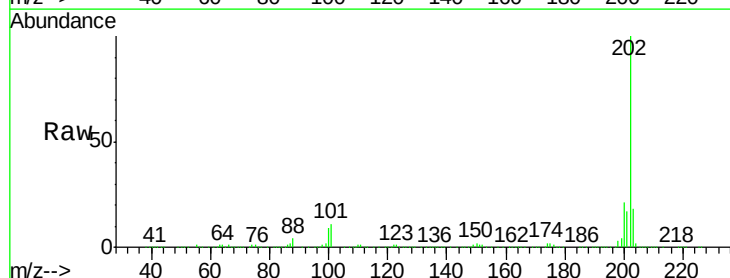
Tgt Ion:202 Resp: 439714

Ion Ratio Lower Upper

202 100

200 21.3 17.5 26.3

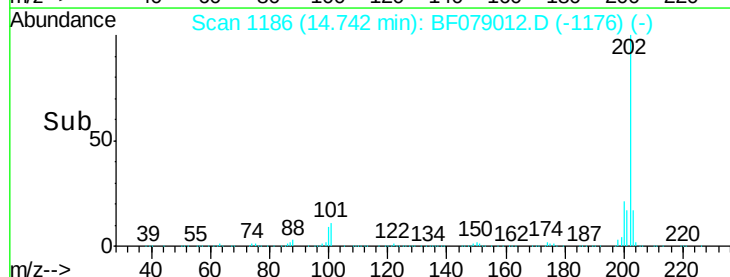
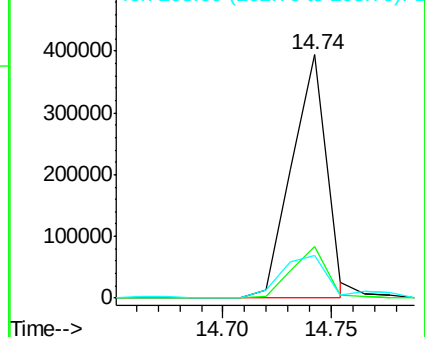
203 17.6 13.9 20.9

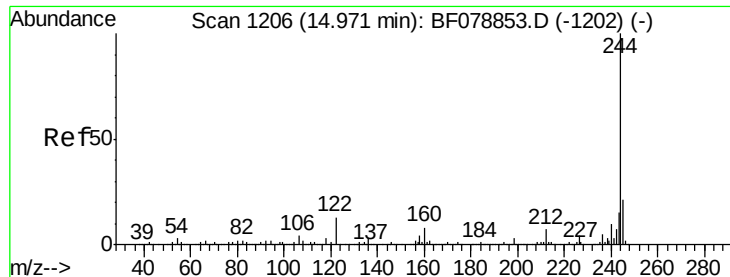


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 58.40 ng

RT: 14.95 min Scan# 1204

Delta R.T. 0.01 min

Lab File: BF079012.D

Acq: 7 May 2015 22:58

Instrument :

BNA_F

ClientSampleId :

SB-45D

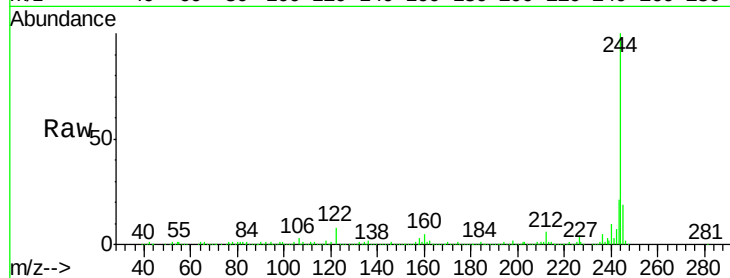
Tgt Ion:244 Resp: 623551

Ion Ratio Lower Upper

244 100

212 5.7 5.6 8.4

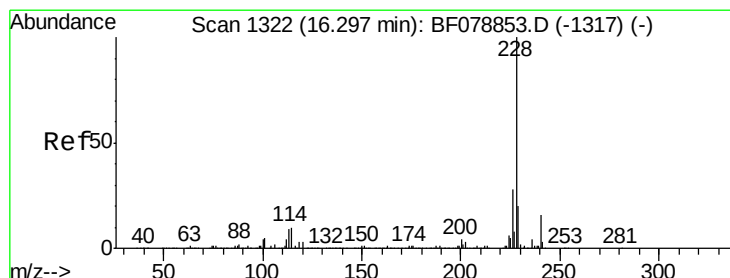
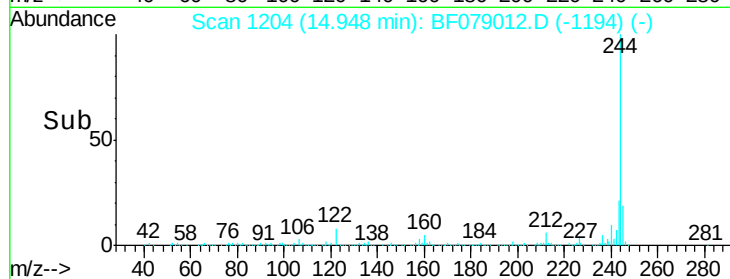
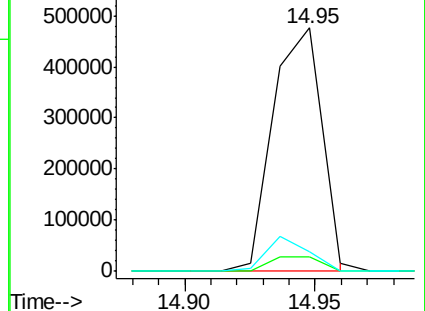
122 8.2 10.3 15.5#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 15.82 ng

RT: 16.23 min Scan# 1316

Delta R.T. -0.03 min

Lab File: BF079012.D

Acq: 7 May 2015 22:58

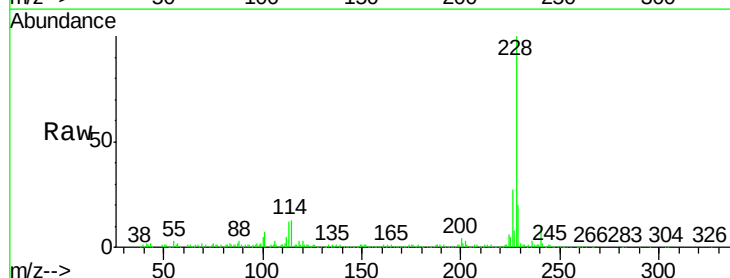
Tgt Ion:228 Resp: 221487

Ion Ratio Lower Upper

228 100

226 27.2 22.6 33.8

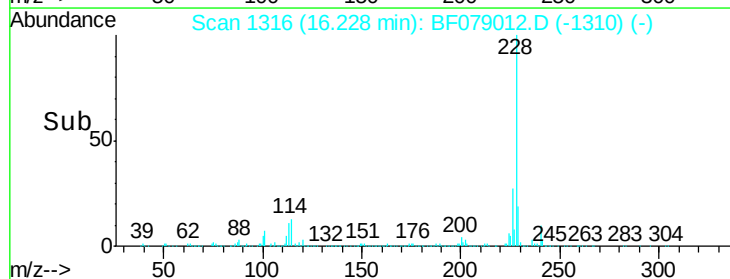
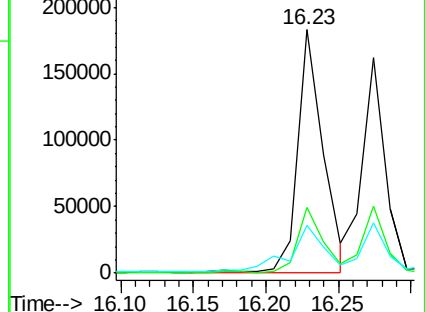
229 19.7 15.9 23.9

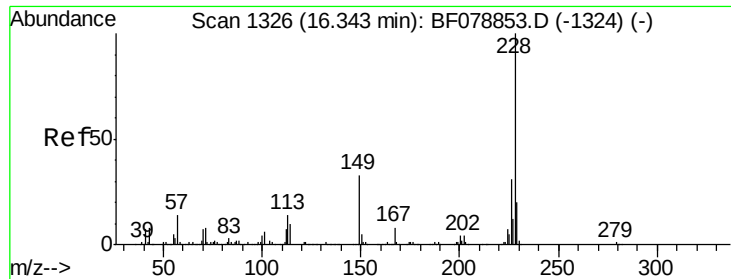


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 13.09 ng

RT: 16.27 min Scan# 1320

Delta R.T. -0.03 min

Lab File: BF079012.D

Acq: 7 May 2015 22:58

Instrument :

BNA_F

ClientSampleId :

SB-45D

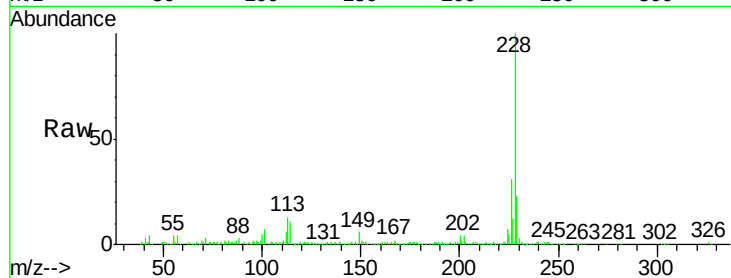
Tgt Ion:228 Resp: 176262

Ion Ratio Lower Upper

228 100

226 30.8 24.9 37.3

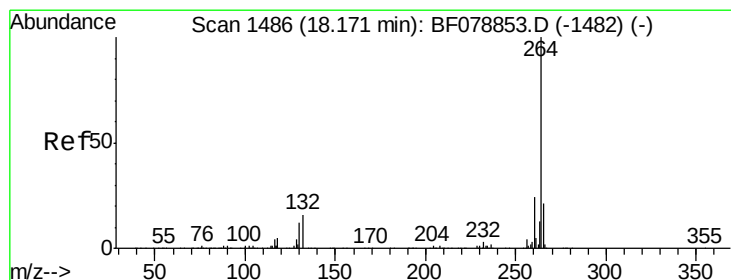
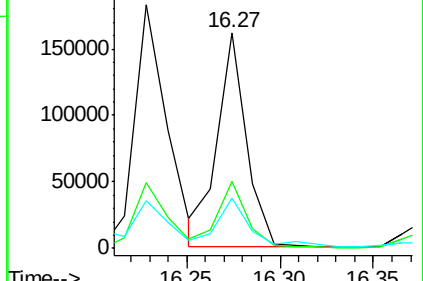
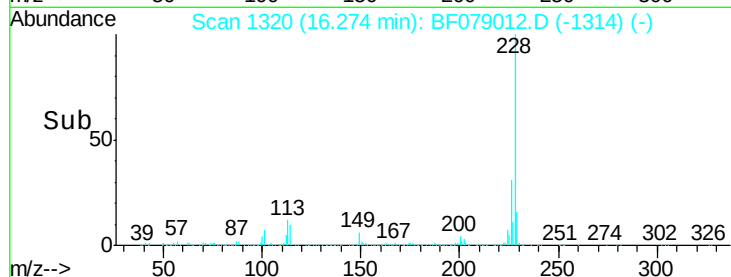
229 23.4 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86

Perylene-d12

Concen: 20.00 ng

RT: 17.99 min Scan# 1470

Delta R.T. -0.15 min

Lab File: BF079012.D

Acq: 7 May 2015 22:58

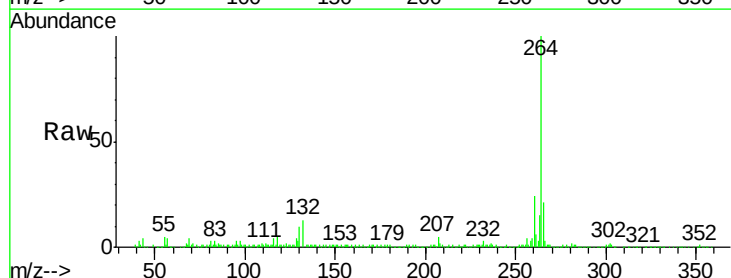
Tgt Ion:264 Resp: 281294

Ion Ratio Lower Upper

264 100

260 23.6 19.4 29.2

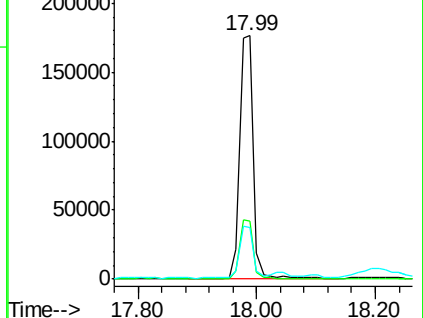
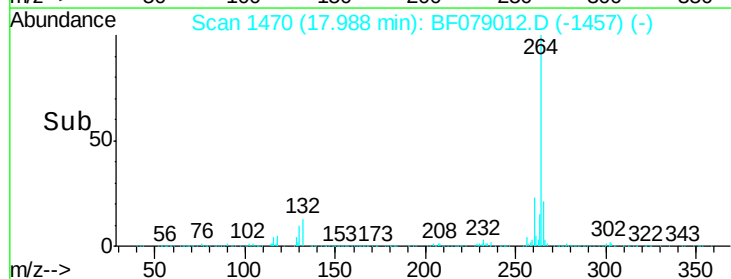
265 21.4 18.3 27.5

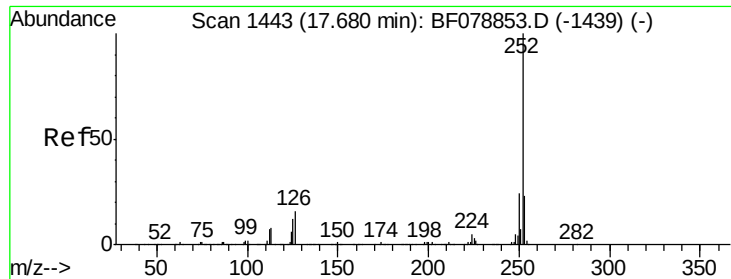


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E

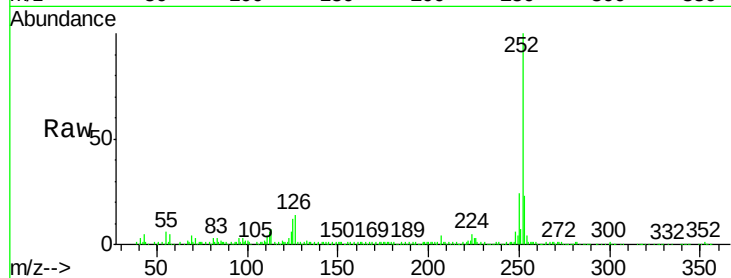




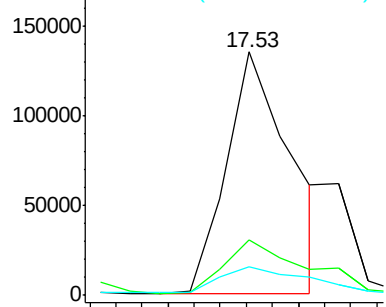
#87
Benzo(b)fluoranthene
Concen: 15.12 ng
RT: 17.53 min Scan# 1430
Delta R.T. -0.13 min
Lab File: BF079012.D
Acq: 7 May 2015 22:58

Instrument :
BNA_F
ClientSampleId :
SB-45D

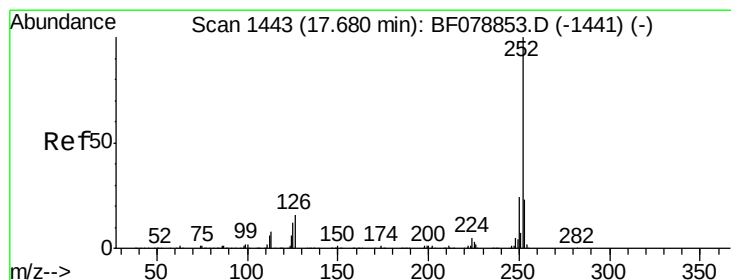
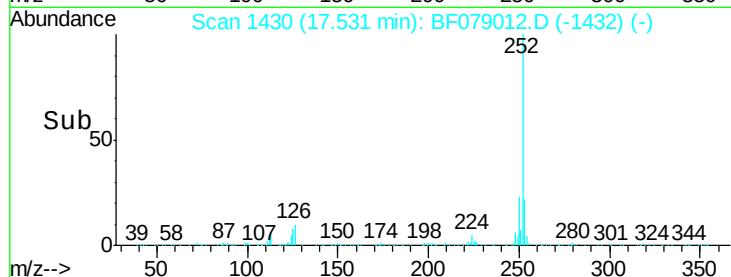
Tgt Ion:252 Resp: 232830
Ion Ratio Lower Upper
252 100
253 23.0 17.7 26.5
125 11.7 9.5 14.3



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

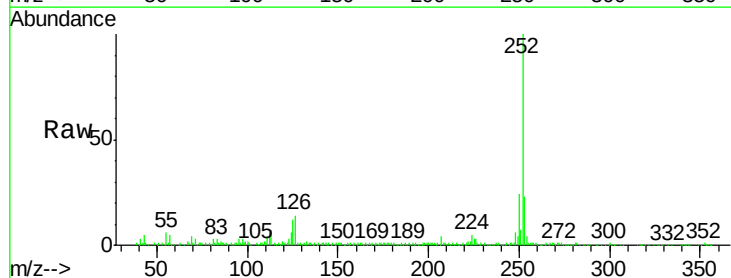


Time-->

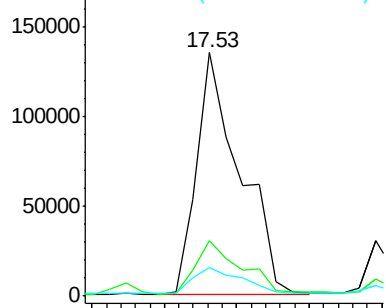


#88
Benzo(k)fluoranthene
Concen: 18.92 ng
RT: 17.53 min Scan# 1430
Delta R.T. -0.16 min
Lab File: BF079012.D
Acq: 7 May 2015 22:58

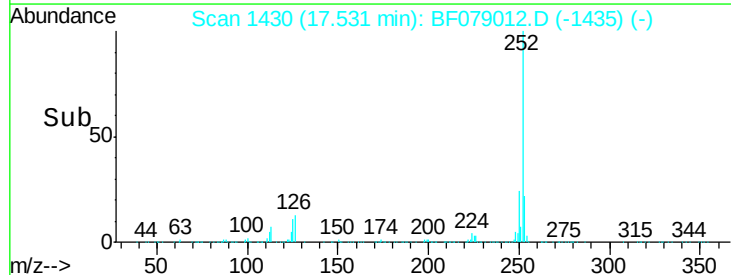
Tgt Ion:252 Resp: 281934
Ion Ratio Lower Upper
252 100
253 23.0 18.1 27.1
125 11.7 10.0 15.0

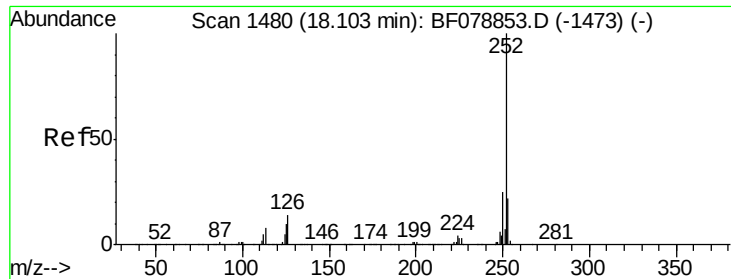


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



Time-->





#89

Benzo(a)pyrene

Concen: 11.82 ng

RT: 17.92 min Scan# 1464

Delta R.T. -0.15 min

Lab File: BF079012.D

Acq: 7 May 2015 22:58

Instrument :

BNA_F

ClientSampleId :

SB-45D

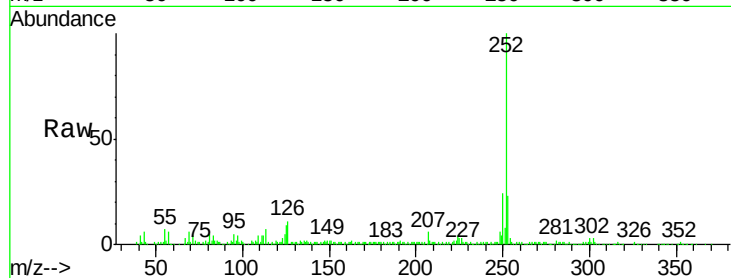
Tgt Ion:252 Resp: 167528

Ion Ratio Lower Upper

252 100

253 22.7 17.3 25.9

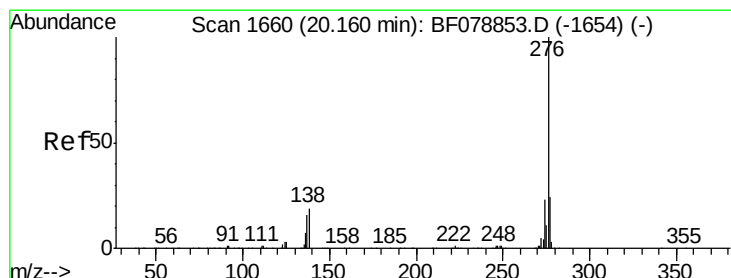
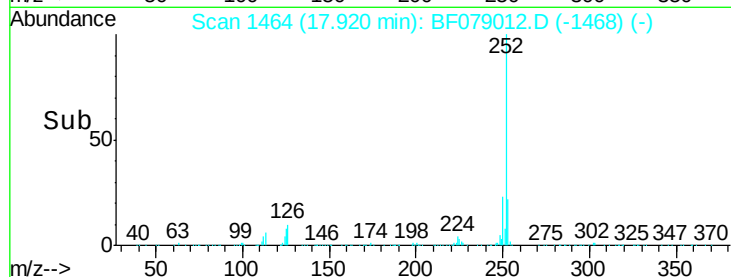
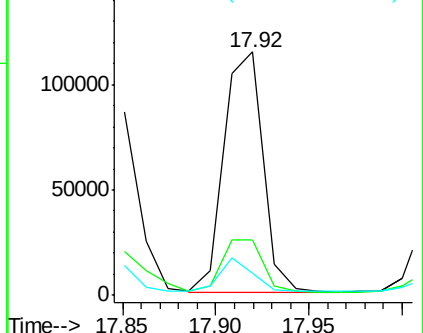
125 9.4 7.0 10.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#91

Benzo(g,h,i)perylene

Concen: 5.16 ng

RT: 19.93 min Scan# 1640

Delta R.T. -0.17 min

Lab File: BF079012.D

Acq: 7 May 2015 22:58

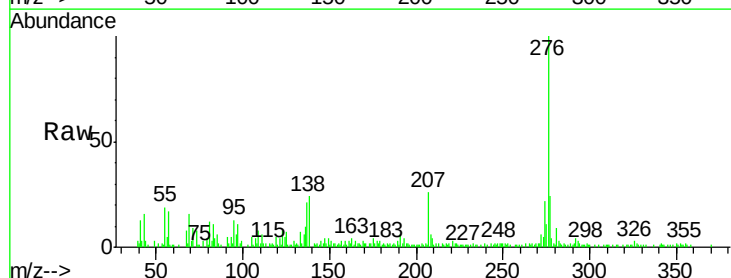
Tgt Ion:276 Resp: 77922

Ion Ratio Lower Upper

276 100

277 24.4 18.6 28.0

138 23.8 17.4 26.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

