

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011215\
 Data File : BF076830.D
 Acq On : 13 Jan 2015 5:19
 Operator : IZ / TP
 Sample : G1030-08 5X
 Misc : S
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TP3-SS-2(4-6)

Quant Time: Jan 13 10:39:54 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010915.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Jan 12 10:43:48 2015
 Response via : Initial Calibration

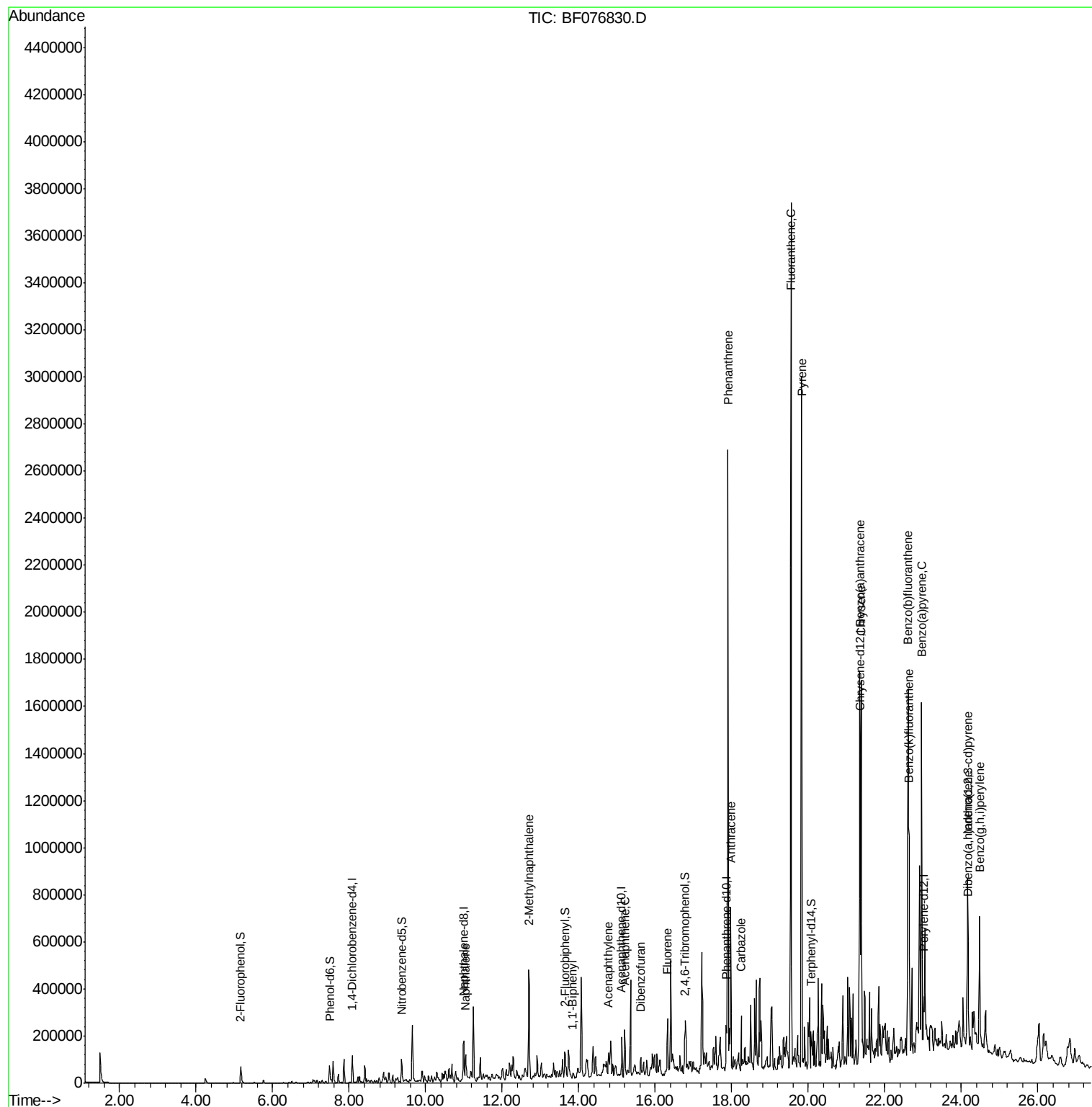
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.08	152	31415	20.00	ng	0.00
21) Naphthalene-d8	11.00	136	123666	20.00	ng	0.00
38) Acenaphthene-d10	15.12	164	65237	20.00	ng	-0.01
63) Phenanthrene-d10	17.85	188	104358	20.00	ng	0.00
75) Chrysene-d12	21.35	240	108248	20.00	ng	0.00
86) Perylene-d12	23.02	264	101117	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.17	112	38794	20.61	ng	-0.01
7) Phenol-d6	7.49	99	52383	22.10	ng	-0.01
23) Nitrobenzene-d5	9.37	82	32749	14.72	ng	-0.01
41) 2,4,6-Tribromophenol	16.77	330	10508	19.30	ng	-0.01
44) 2-Fluorobiphenyl	13.64	172	57881	13.06	ng	-0.01
78) Terphenyl-d14	20.07	244	51307	10.41	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	11.04	128	58860	9.28	ng	97
37) 2-Methylnaphthalene	12.70	142	61869	13.90	ng	96
45) 1,1'-Biphenyl	13.84	154	11312	2.26	ng	99
48) Acenaphthylene	14.78	152	81975	12.00	ng	99
51) Acenaphthene	15.20	154	63527	16.46	ng	95
54) Dibenzofuran	15.63	168	51212	9.07	ng	98
57) Fluorene	16.32	166	86665	18.38	ng	98
70) Phenanthrene	17.90	178	1072861	164.97	ng	97
71) Anthracene	17.97	178	308547	48.85	ng	99
72) Carbazole	18.24	167	117575	18.99	ng	97
74) Fluoranthene	19.55	202	1895813	284.62	ng	95
77) Pvrene	19.83	202	1670842	214.52	ng	97
80) Benzo(a)anthracene	21.34	228	972483	141.02	ng	96
82) Chrysene	21.39	228	732489m	117.40	ng	
85) Indeno(1,2,3-cd)pyrene	24.16	276	407619	66.02	ng	# 100
87) Benzo(b)fluoranthene	22.61	252	948121m	135.37	ng	
88) Benzo(k)fluoranthene	22.62	252	360839m	58.94	ng	
89) Benzo(a)pyrene	22.96	252	675619m	112.25	ng	
90) Dibenzo(a,h)anthracene	24.17	278	96234m	17.55	ng	
91) Benzo(a,h,i)perylene	24.47	276	377769	67.50	ng	99

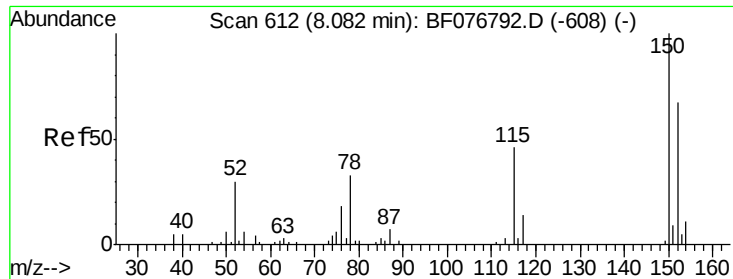
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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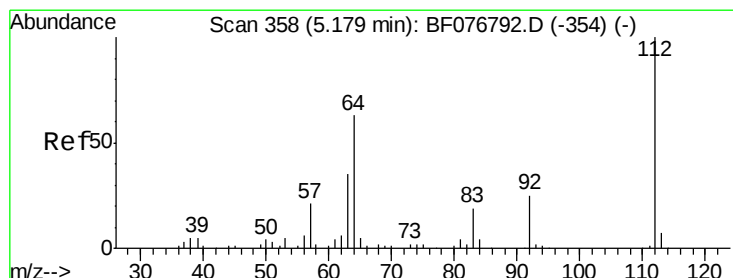
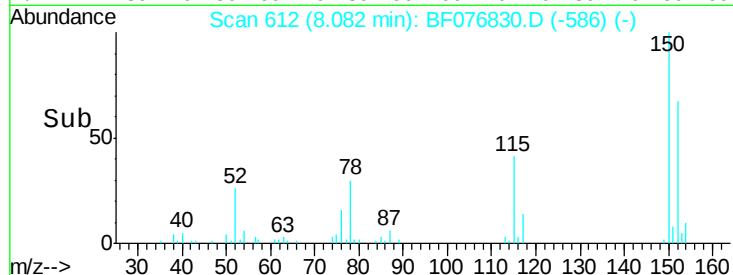
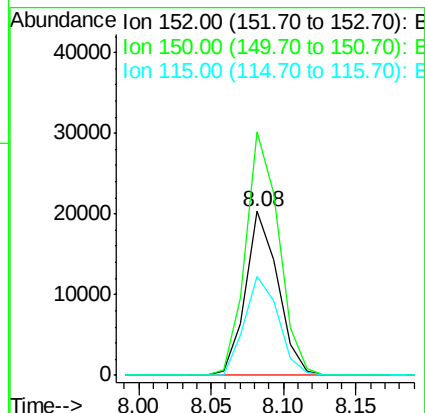
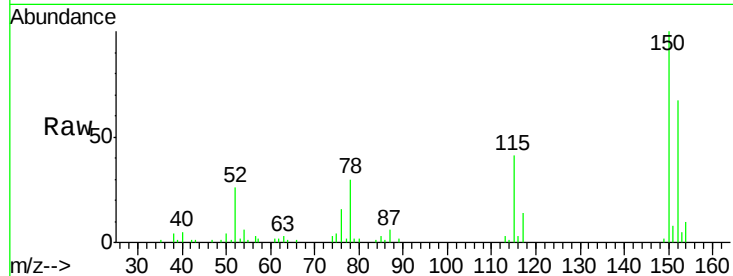


#1

1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 8.08 min Scan# 612
Delta R.T. -0.00 min
Lab File: BF076830.D
Acq: 13 Jan 2015 5:19

Instrument :
BNA_F
ClientSampleId :
TP3-SS-2(4-6)

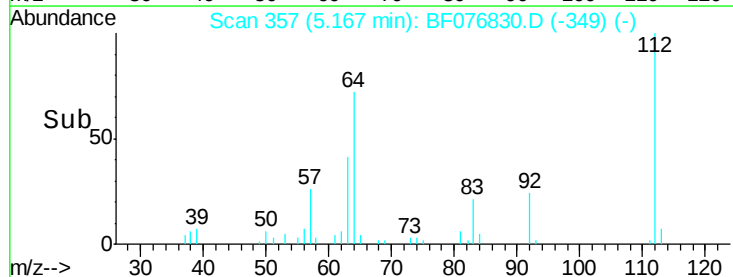
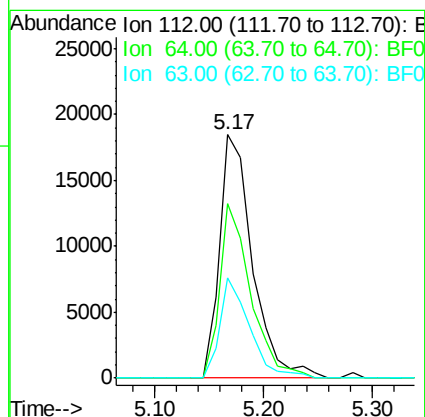
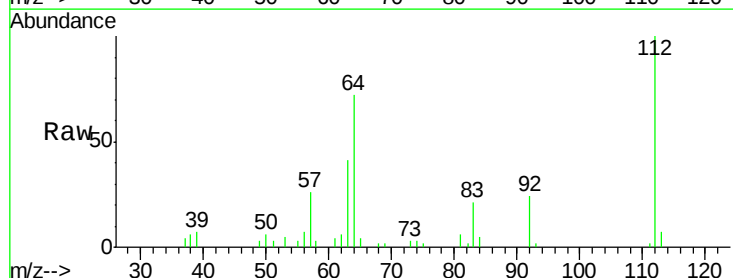
Tot Ion:152 Resp: 31415
Ion Ratio Lower Upper
152 100
150 148.3 119.5 179.3
115 60.6 54.6 81.8

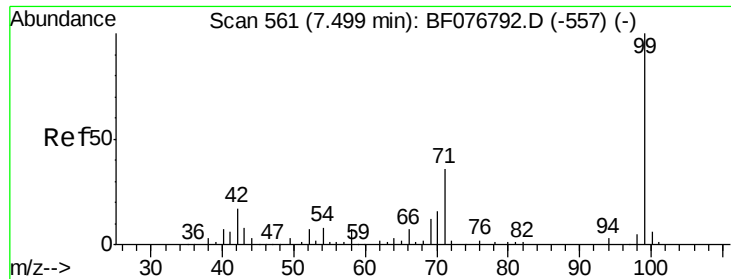


#5

2-Fluorophenol
Concen: 20.61 ng
RT: 5.17 min Scan# 357
Delta R.T. -0.01 min
Lab File: BF076830.D
Acq: 13 Jan 2015 5:19

Tgt Ion:112 Resp: 38794
Ion Ratio Lower Upper
112 100
64 71.9 50.2 75.4
63 40.9 27.8 41.6





#7

Phenol-d6

Concen: 22.10 ng

RT: 7.49 min Scan# 560

Delta R.T. -0.01 min

Lab File: BF076830.D

Acq: 13 Jan 2015 5:19

Instrument :

BNA_F

ClientSampleId :

TP3-SS-2(4-6)

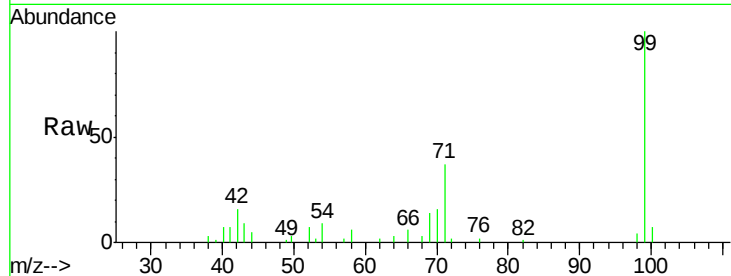
Tot Ion: 99 Resp: 52383

Ion Ratio Lower Upper

99 100

42 15.5 13.3 19.9

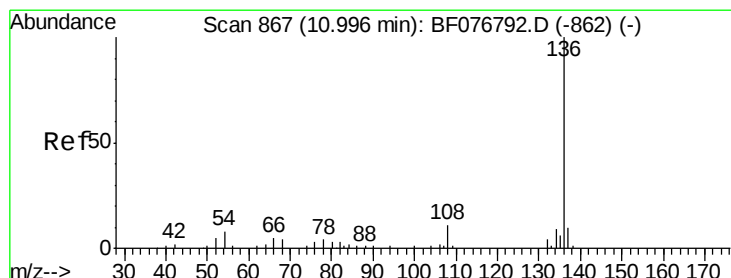
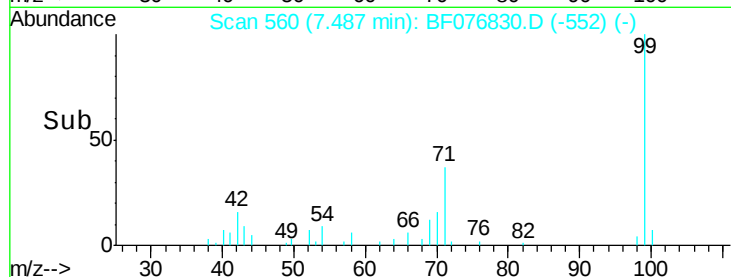
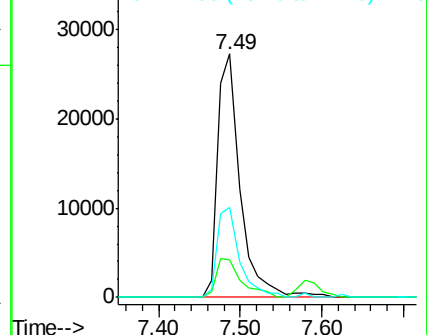
71 36.7 29.2 43.8



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 11.00 min Scan# 867

Delta R.T. -0.00 min

Lab File: BF076830.D

Acq: 13 Jan 2015 5:19

Tgt Ion: 136 Resp: 123666

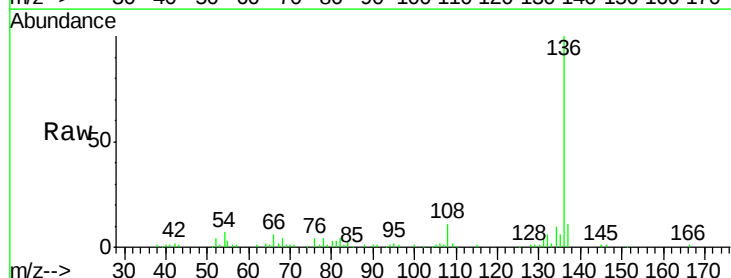
Ion Ratio Lower Upper

136 100

137 11.4 8.1 12.1

54 6.6 6.3 9.5

68 4.5 3.4 5.0

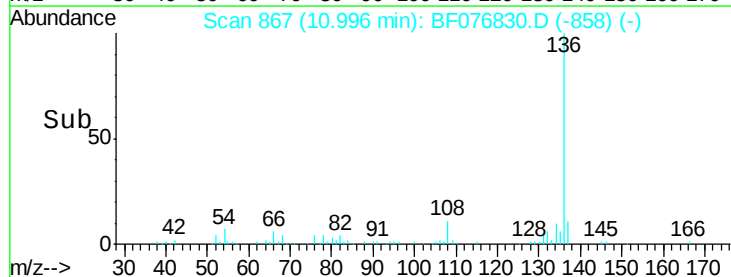
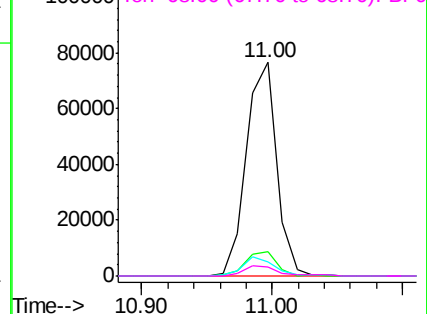


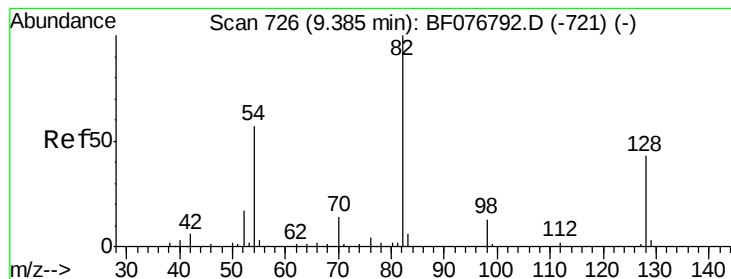
Abundance Ion 136.00 (135.70 to 136.70): E

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: 14.72 ng

RT: 9.37 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF076830.D

Acq: 13 Jan 2015 5:19

Instrument :

BNA_F

ClientSampleId :

TP3-SS-2(4-6)

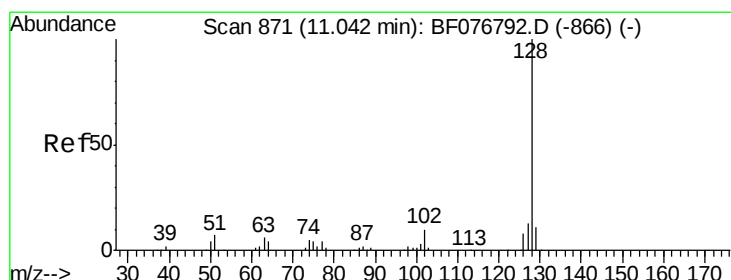
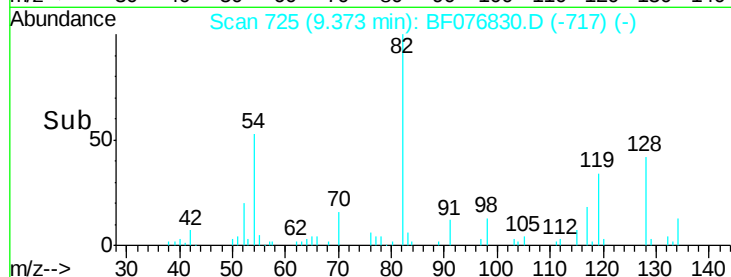
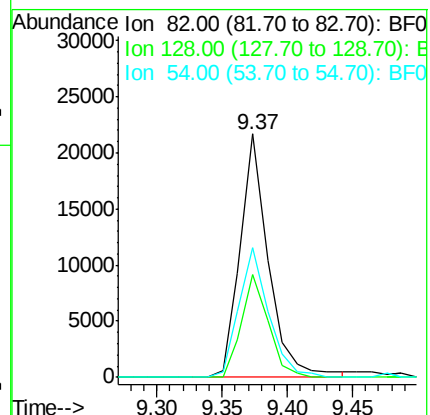
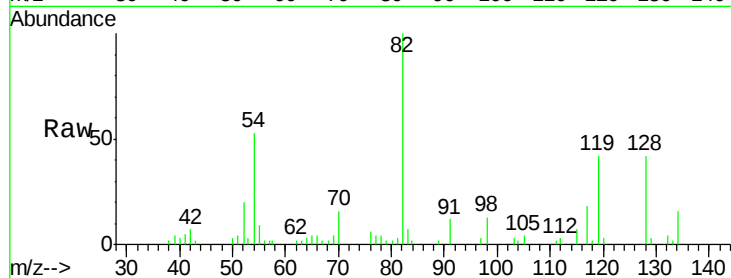
Tot Ion: 82 Resp: 32749

Ion Ratio Lower Upper

82 100

128 42.2 34.0 51.0

54 53.1 45.6 68.4



#31

Naphthalene

Concen: 9.28 ng

RT: 11.04 min Scan# 871

Delta R.T. -0.00 min

Lab File: BF076830.D

Acq: 13 Jan 2015 5:19

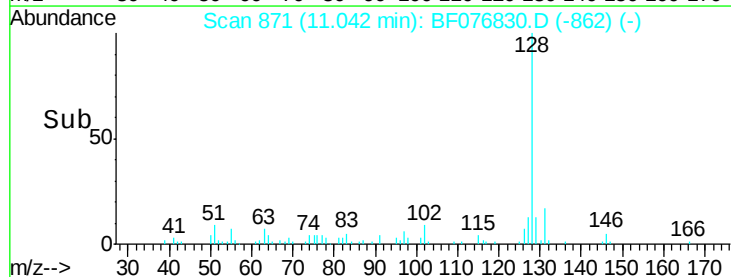
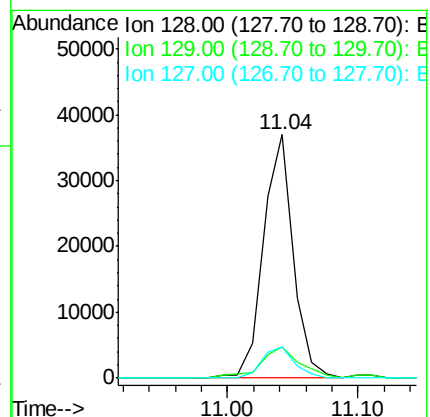
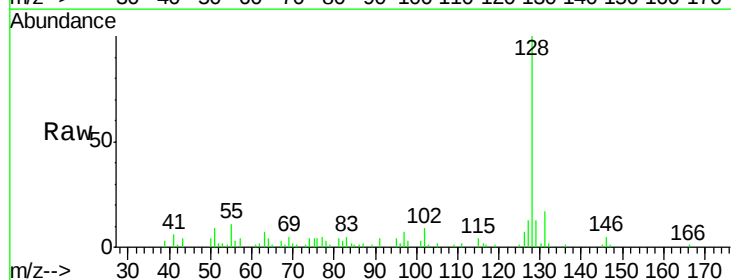
Tgt Ion: 128 Resp: 58860

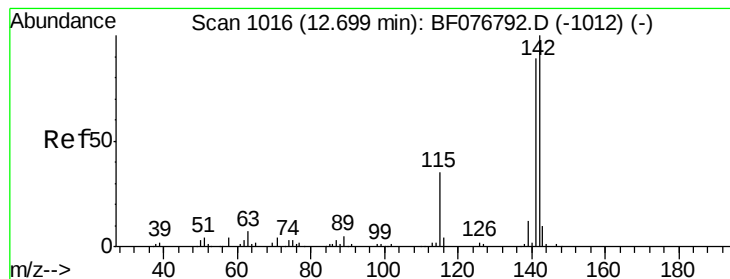
Ion Ratio Lower Upper

128 100

129 12.6 8.6 13.0

127 13.0 10.1 15.1





#37

2-Methylnaphthalene

Concen: 13.90 ng

RT: 12.70 min Scan# 1016

Delta R.T. -0.00 min

Lab File: BF076830.D

Acq: 13 Jan 2015 5:19

Instrument :

BNA_F

ClientSampleId :

TP3-SS-2(4-6)

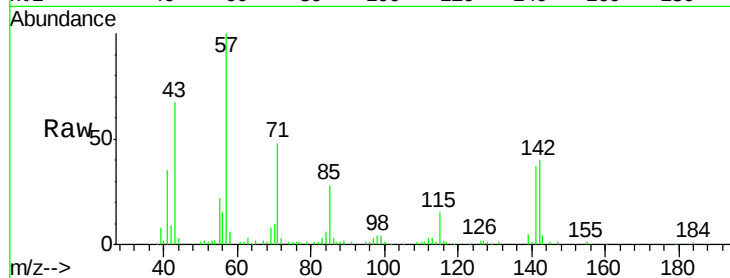
Tot Ion:142 Resp: 61869

Ion Ratio Lower Upper

142 100

141 91.8 71.0 106.4

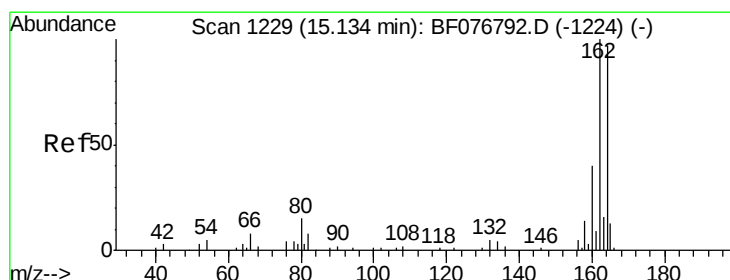
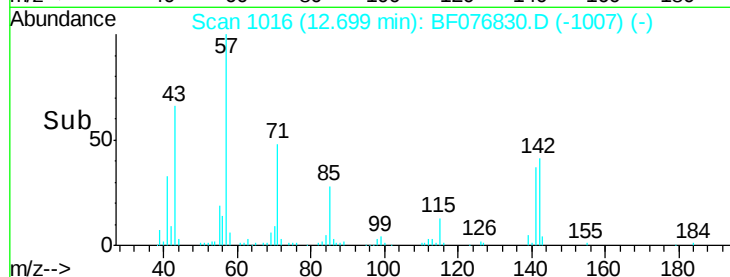
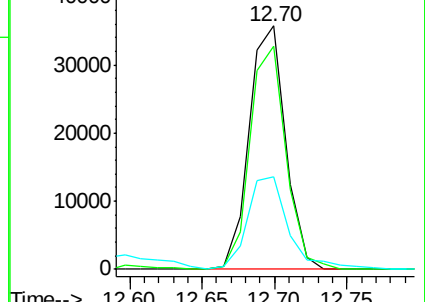
115 38.0 28.2 42.2



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 15.12 min Scan# 1228

Delta R.T. -0.01 min

Lab File: BF076830.D

Acq: 13 Jan 2015 5:19

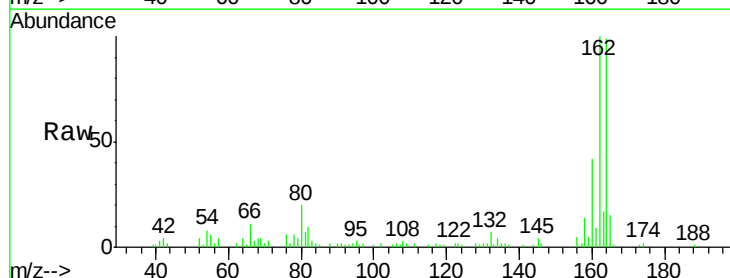
Tgt Ion:164 Resp: 65237

Ion Ratio Lower Upper

164 100

162 101.3 82.5 123.7

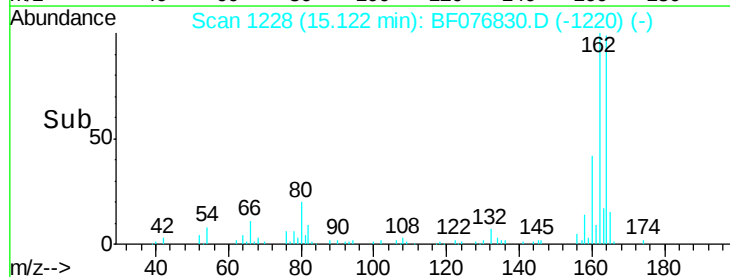
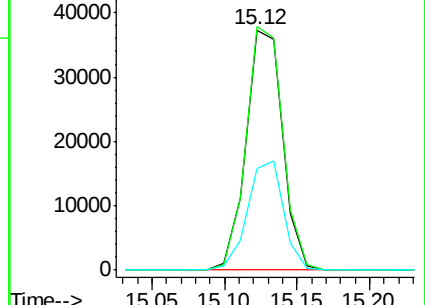
160 42.3 33.1 49.7

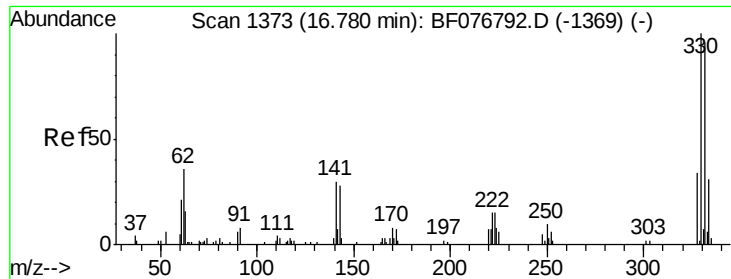


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#41

2,4,6-Tribromophenol

Concen: 19.30 ng

RT: 16.77 min Scan# 1372

Delta R.T. -0.01 min

Lab File: BF076830.D

Acq: 13 Jan 2015 5:19

Instrument :

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TP3-SS-2(4-6)

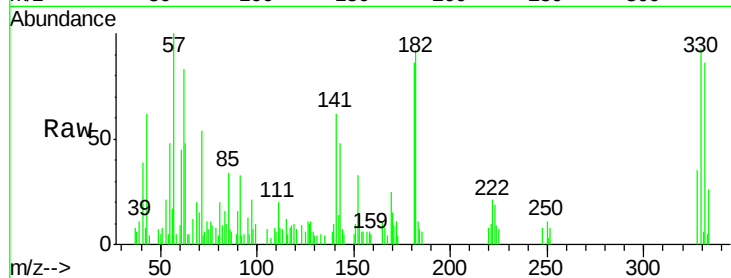
Tot Ion:330 Resp: 10508

Ion Ratio Lower Upper

330 100

332 89.5 74.8 112.2

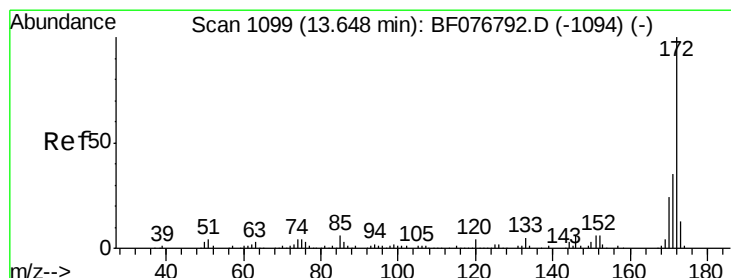
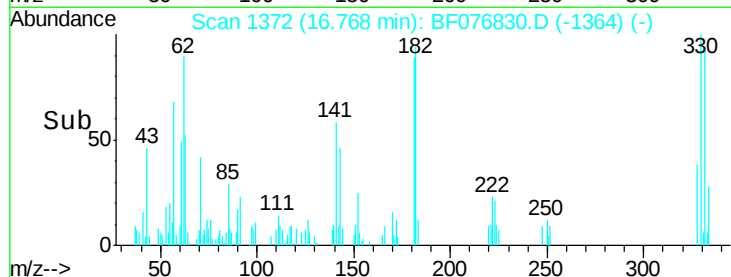
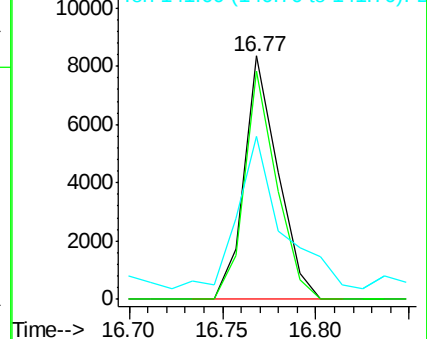
141 83.8 42.4 63.6#



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: 13.06 ng

RT: 13.64 min Scan# 1098

Delta R.T. -0.01 min

Lab File: BF076830.D

Acq: 13 Jan 2015 5:19

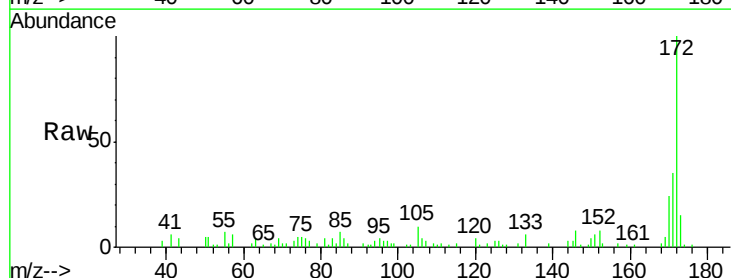
Tgt Ion:172 Resp: 57881

Ion Ratio Lower Upper

172 100

171 35.2 27.8 41.8

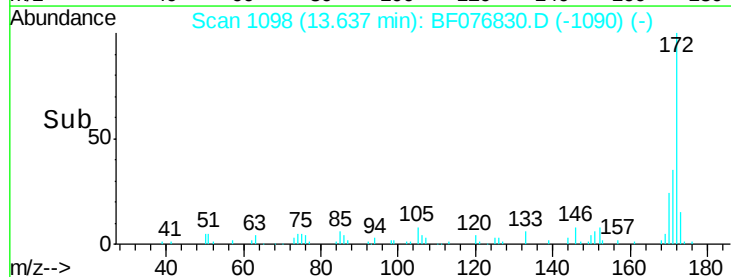
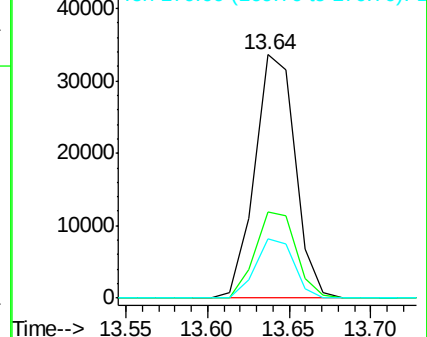
170 24.3 18.8 28.2

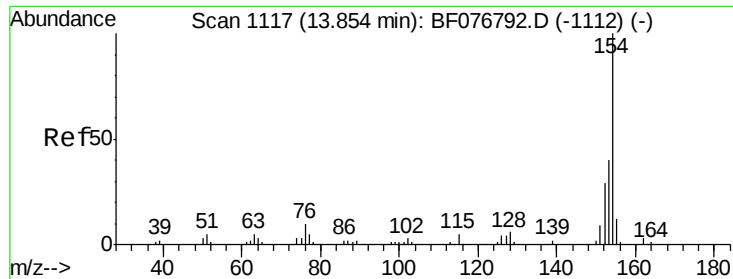


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

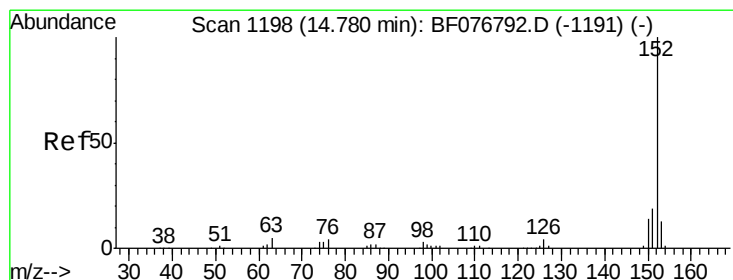
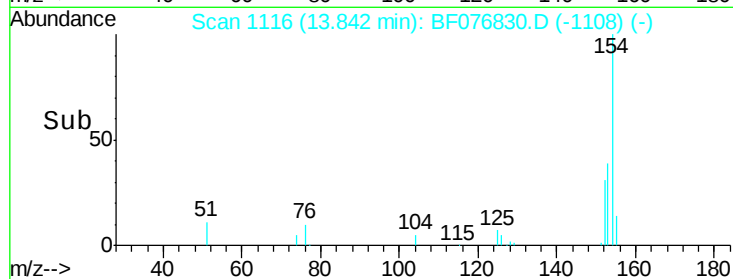
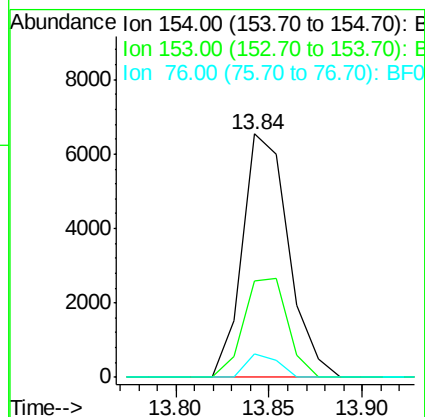
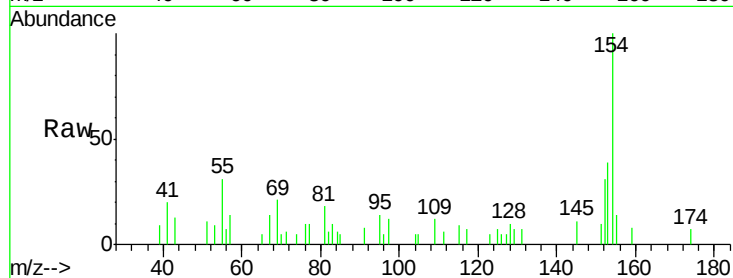




#45
 1,1'-Biphenyl
 Concen: 2.26 ng
 RT: 13.84 min Scan# 1116
 Delta R.T. -0.01 min
 Lab File: BF076830.D
 Acq: 13 Jan 2015 5:19

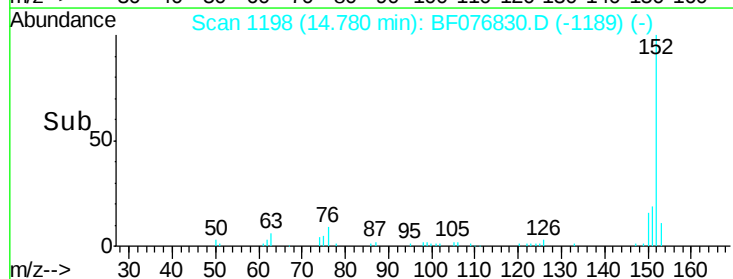
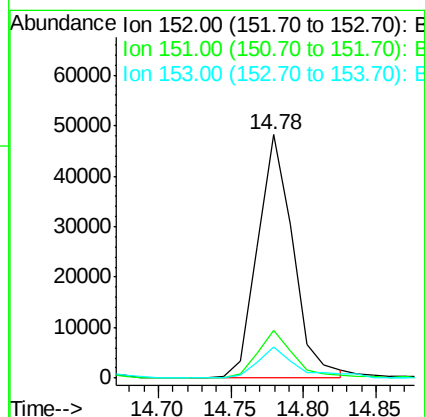
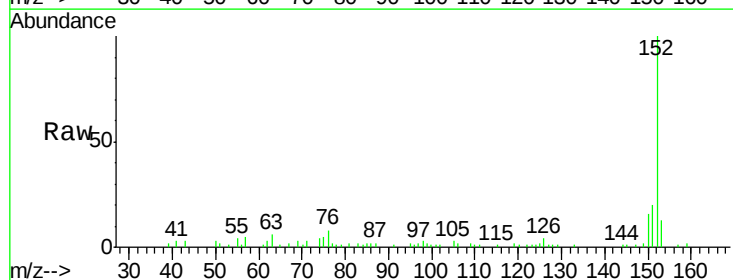
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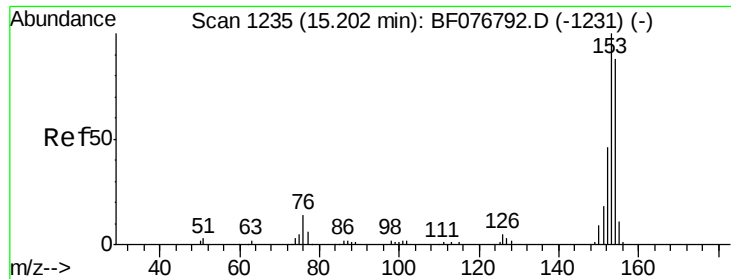
Tot Ion:154	Resp:	11312
Ion Ratio	Lower	Upper
154	100	
153	39.5	19.9 59.9
76	9.6	0.0 29.9



#48
 Acenaphthylene
 Concen: 12.00 ng
 RT: 14.78 min Scan# 1198
 Delta R.T. -0.00 min
 Lab File: BF076830.D
 Acq: 13 Jan 2015 5:19

Tgt Ion:152	Resp:	81975
Ion Ratio	Lower	Upper
152	100	
151	19.7	15.2 22.8
153	12.7	10.5 15.7





#51

Acenaphthene

Concen: 16.46 ng

RT: 15.20 min Scan# 1235

Delta R.T. -0.00 min

Lab File: BF076830.D

Acq: 13 Jan 2015 5:19

Instrument :

BNA_F

ClientSampleId :

TP3-SS-2(4-6)

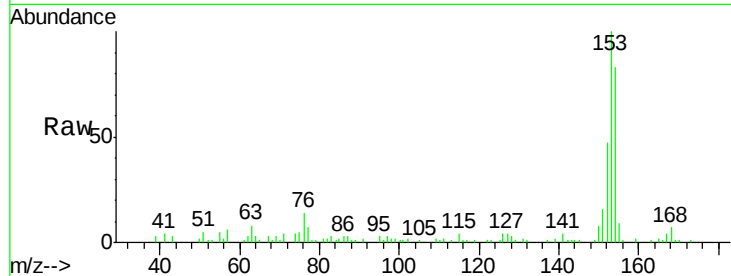
Tot Ion:154 Resp: 63527

Ion Ratio Lower Upper

154 100

153 119.9 91.0 136.6

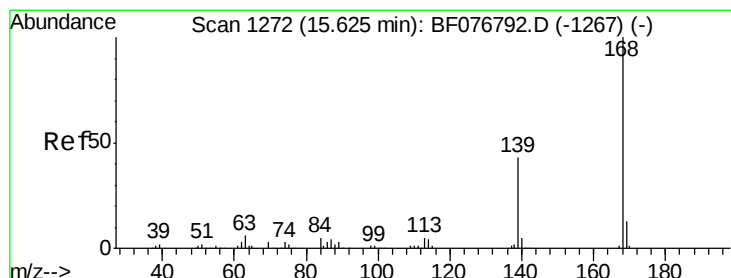
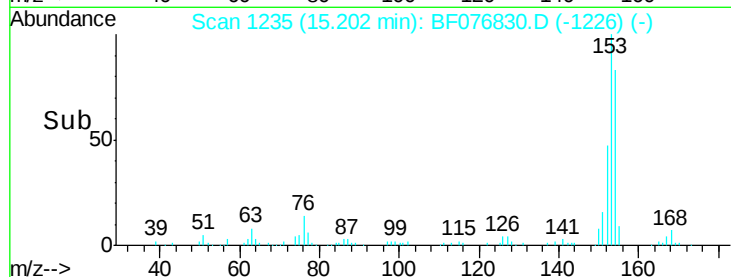
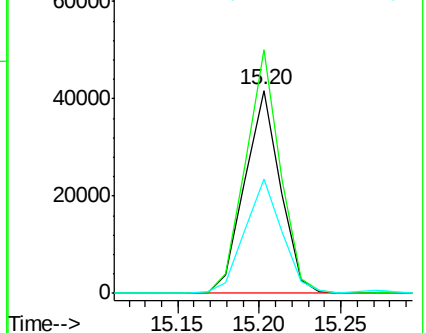
152 56.1 42.2 63.2



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: 9.07 ng

RT: 15.63 min Scan# 1272

Delta R.T. -0.00 min

Lab File: BF076830.D

Acq: 13 Jan 2015 5:19

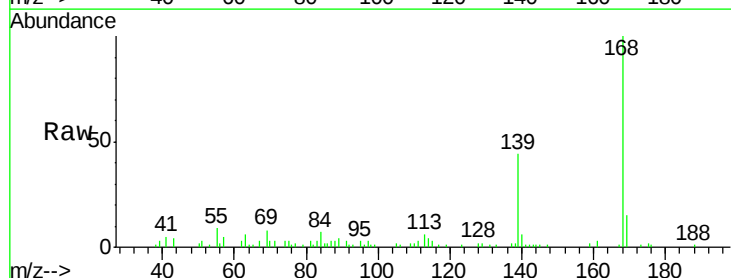
Tgt Ion:168 Resp: 51212

Ion Ratio Lower Upper

168 100

139 43.8 34.2 51.4

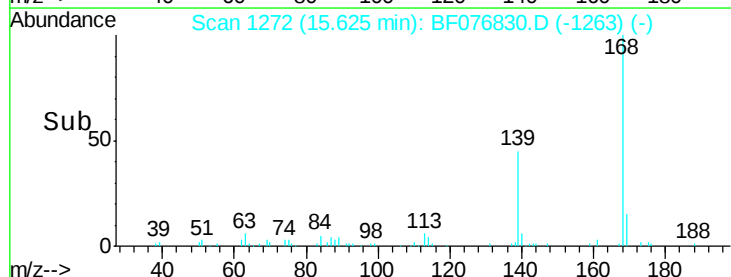
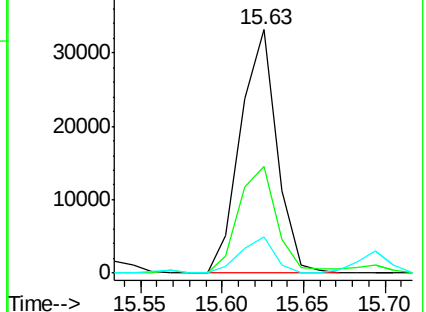
169 14.8 10.5 15.7

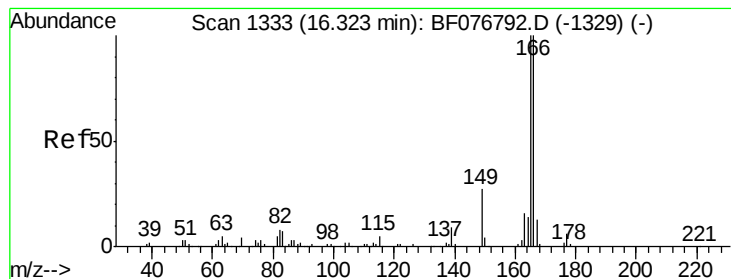


Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E





#57

Fluorene

Concen: 18.38 ng

RT: 16.32 min Scan# 1333

Delta R.T. -0.00 min

Lab File: BF076830.D

Acq: 13 Jan 2015 5:19

Instrument :

BNA_F

ClientSampleId :

TP3-SS-2(4-6)

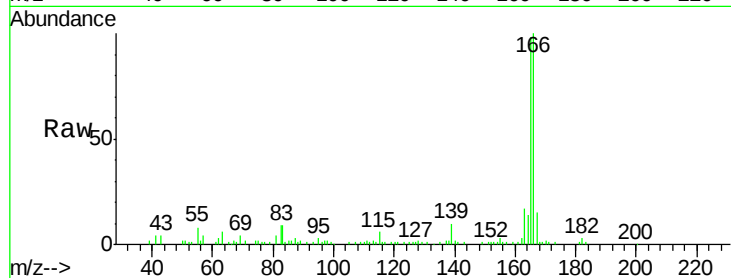
Tot Ion:166 Resp: 86665

Ion Ratio Lower Upper

166 100

165 98.2 79.6 119.4

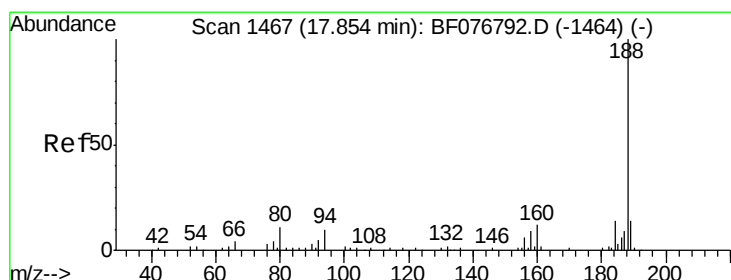
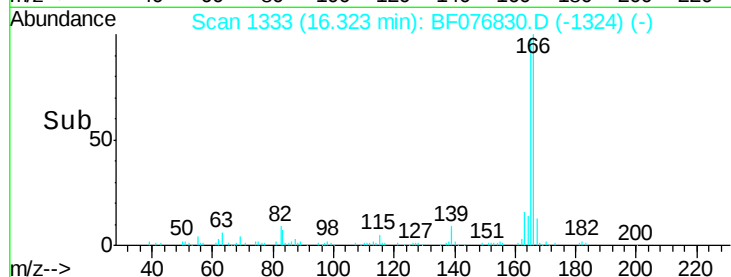
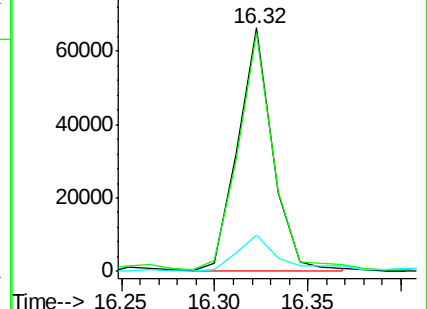
167 14.6 10.2 15.2



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 17.85 min Scan# 1467

Delta R.T. -0.00 min

Lab File: BF076830.D

Acq: 13 Jan 2015 5:19

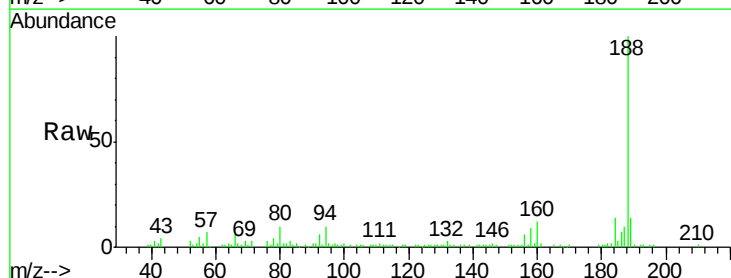
Tgt Ion:188 Resp: 104358

Ion Ratio Lower Upper

188 100

94 10.1 7.8 11.6

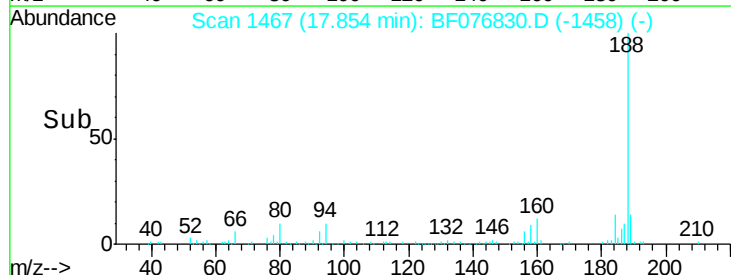
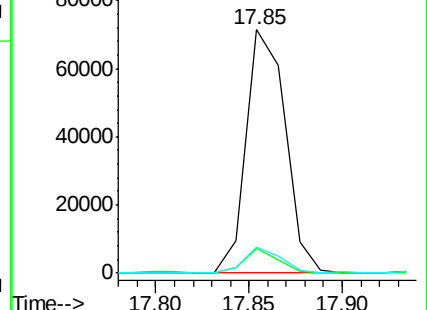
80 10.5 8.6 13.0

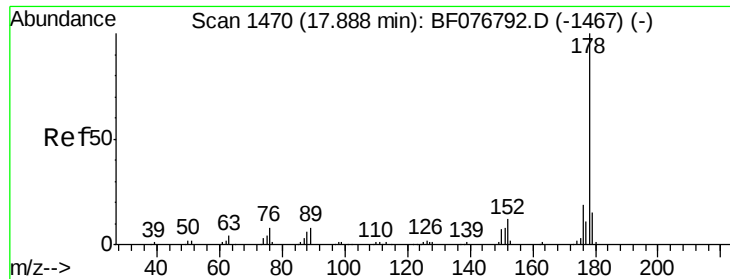


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

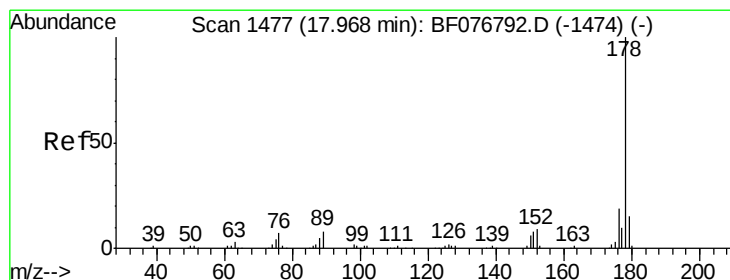
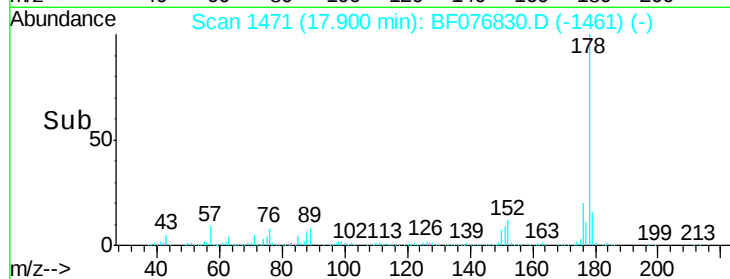
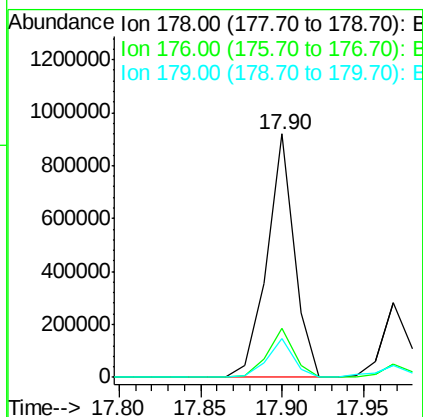
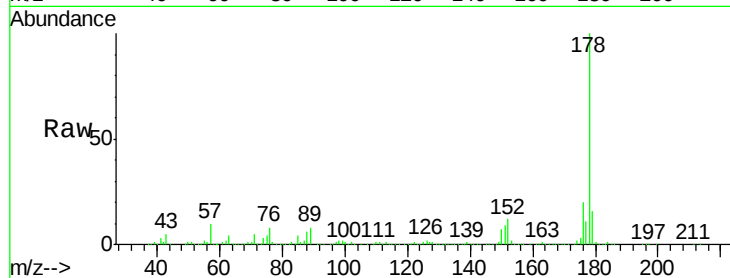




#70
Phenanthrene
Concen: 164.97 ng
RT: 17.90 min Scan# 1471
Delta R.T. 0.01 min
Lab File: BF076830.D
Acq: 13 Jan 2015 5:19

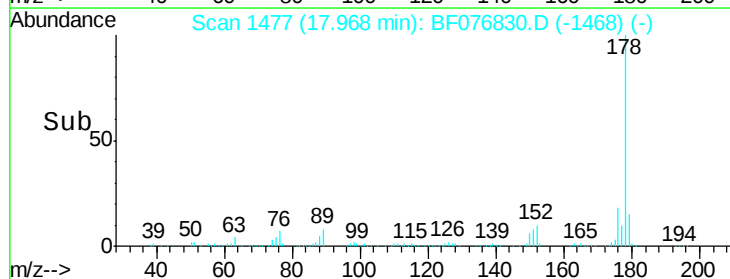
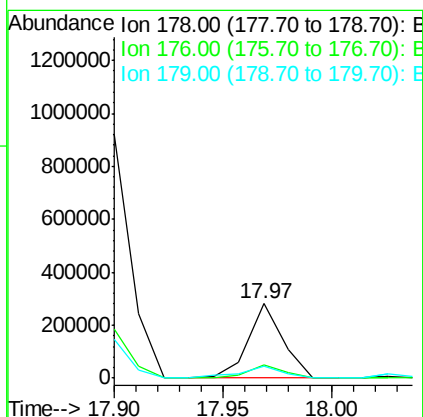
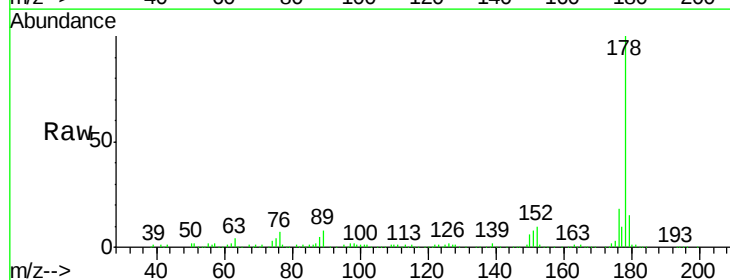
Instrument :
BNA_F
ClientSampleId :
TP3-SS-2(4-6)

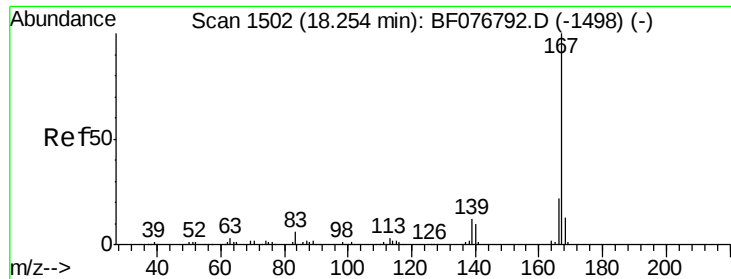
Tot Ion:178 Resp: 1072861
Ion Ratio Lower Upper
178 100
176 20.1 15.2 22.8
179 15.9 11.8 17.8



#71
Anthracene
Concen: 48.85 ng
RT: 17.97 min Scan# 1477
Delta R.T. -0.00 min
Lab File: BF076830.D
Acq: 13 Jan 2015 5:19

Tgt Ion:178 Resp: 308547
Ion Ratio Lower Upper
178 100
176 18.3 15.3 22.9
179 15.5 12.2 18.4

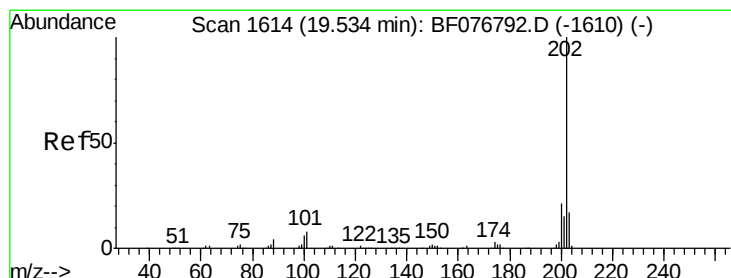
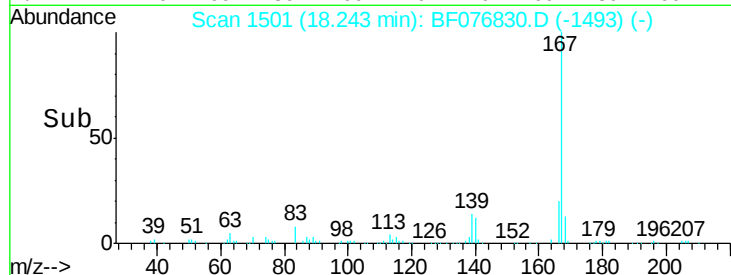
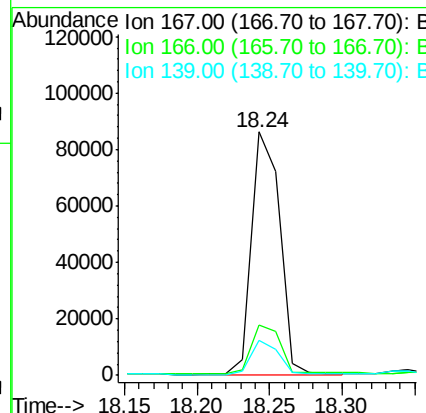
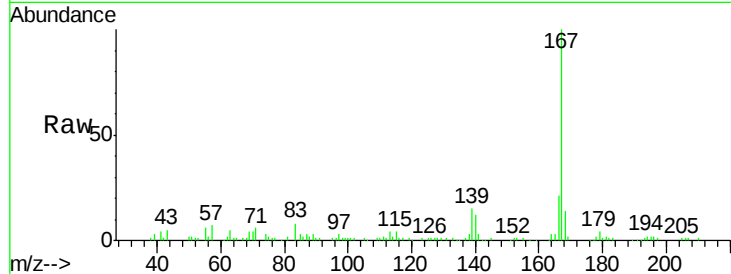




#72
 Carbazole
 Concen: 18.99 ng
 RT: 18.24 min Scan# 1501
 Delta R.T. -0.01 min
 Lab File: BF076830.D
 Acq: 13 Jan 2015 5:19

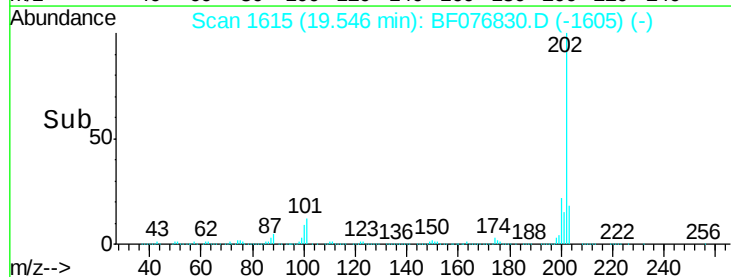
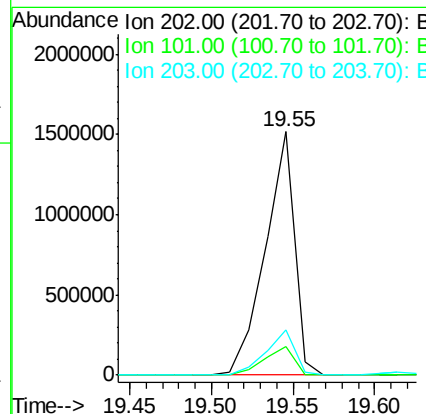
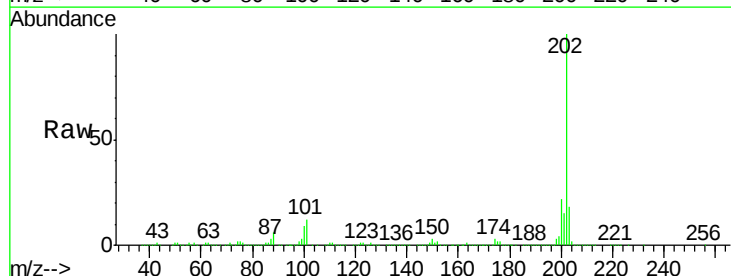
Instrument :
 BNA_F
 ClientSampleId :
 TP3-SS-2(4-6)

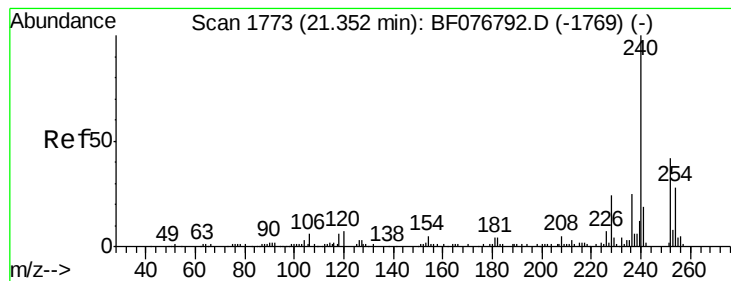
Tot Ion	Ratio	Lower	Upper
167	100		
166	20.8	17.2	25.8
139	14.6	10.0	15.0



#74
 Fluoranthene
 Concen: 284.62 ng
 RT: 19.55 min Scan# 1615
 Delta R.T. 0.01 min
 Lab File: BF076830.D
 Acq: 13 Jan 2015 5:19

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.8	0.0	28.0
203	18.3	0.0	37.2





#75

Chrysene-d12

Concen: 20.00 ng

RT: 21.35 min Scan# 1773

Delta R.T. -0.00 min

Lab File: BF076830.D

Acq: 13 Jan 2015 5:19

Instrument :

BNA_F

ClientSampleId :

TP3-SS-2(4-6)

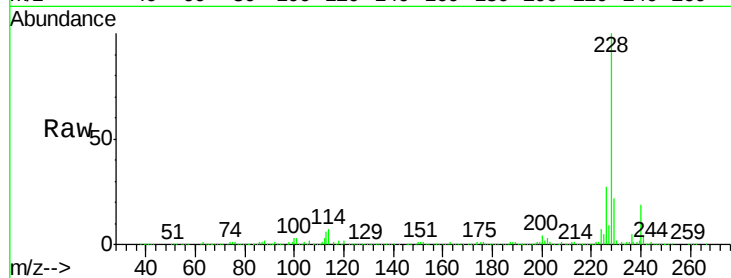
Tot Ion:240 Resp: 108248

Ion Ratio Lower Upper

240 100

120 12.3 5.7 8.5#

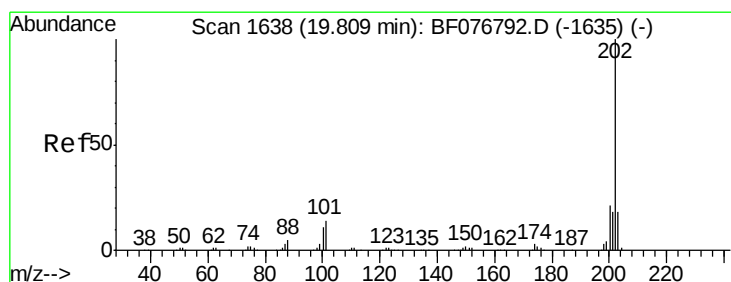
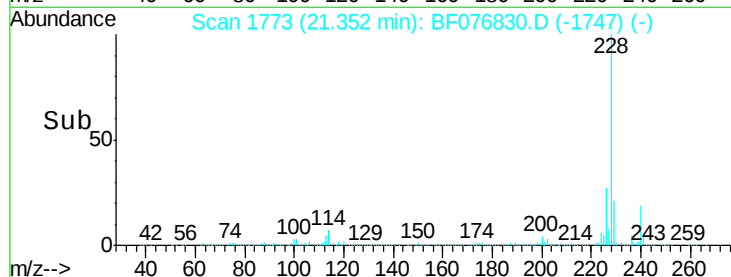
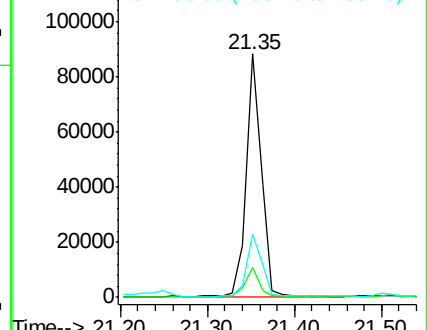
236 26.2 19.7 29.5



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: 214.52 ng

RT: 19.83 min Scan# 1640

Delta R.T. 0.02 min

Lab File: BF076830.D

Acq: 13 Jan 2015 5:19

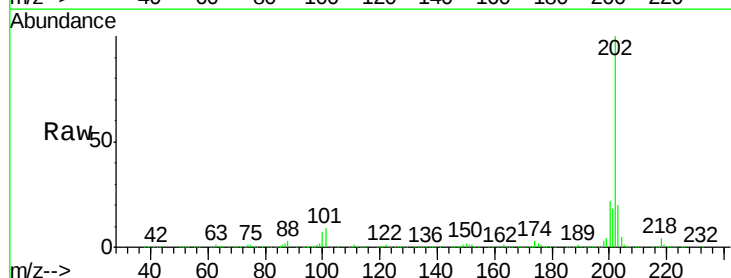
Tgt Ion:202 Resp: 1670842

Ion Ratio Lower Upper

202 100

200 21.8 16.6 25.0

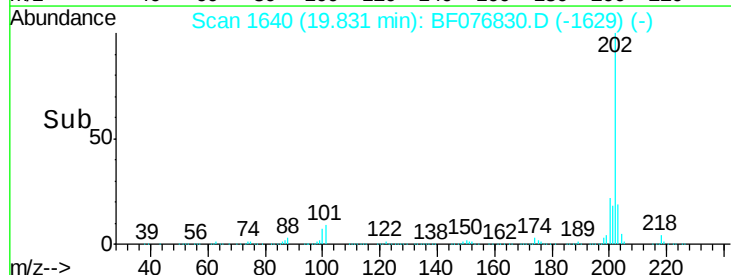
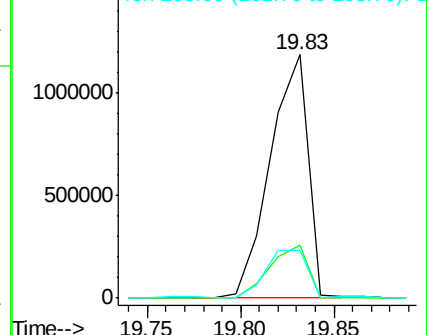
203 19.7 14.6 22.0

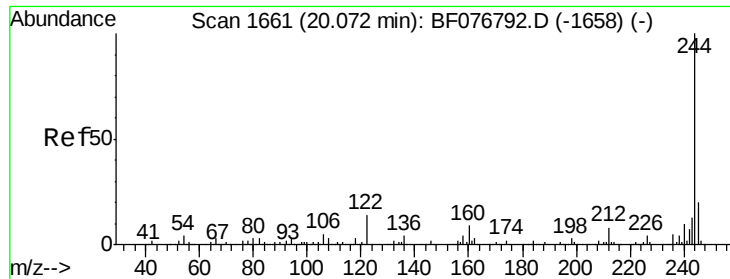


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

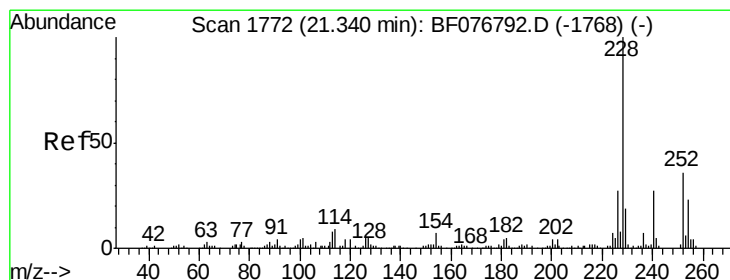
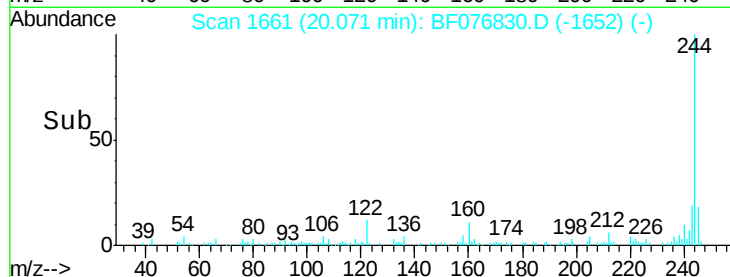
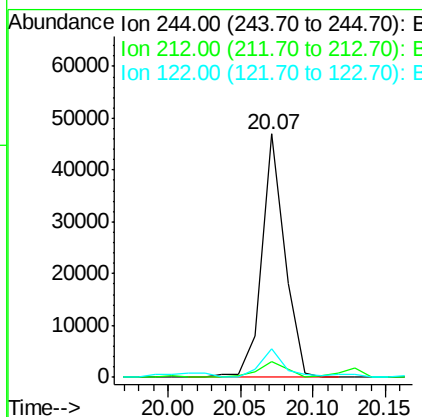
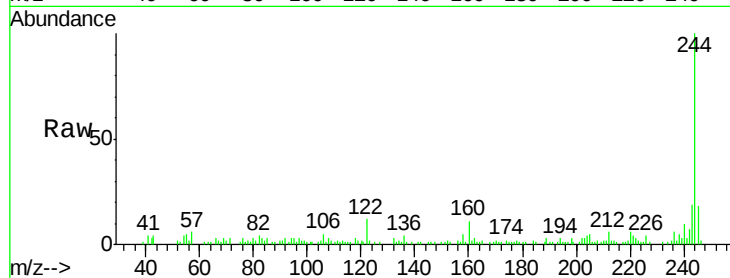




#78
 Terphenyl-d14
 Concen: 10.41 ng
 RT: 20.07 min Scan# 1661
 Delta R.T. -0.00 min
 Lab File: BF076830.D
 Acq: 13 Jan 2015 5:19

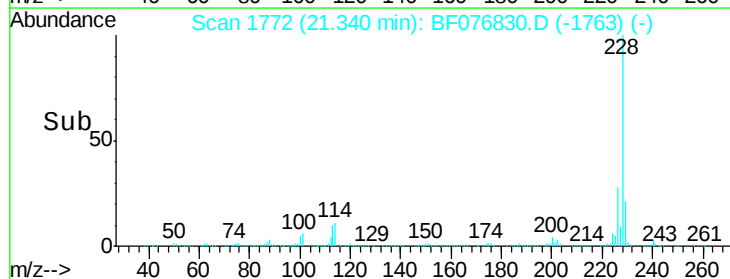
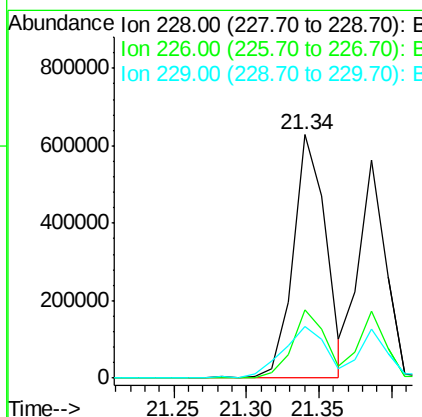
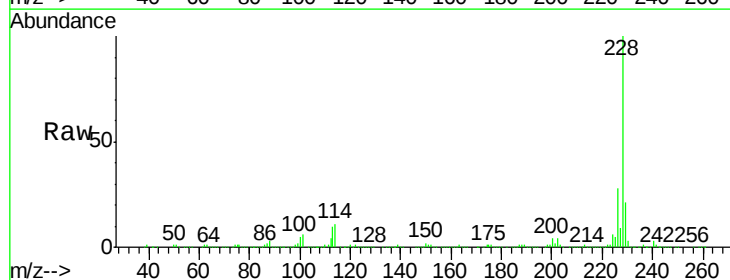
Instrument :
 BNA_F
 ClientSampleId :
 TP3-SS-2(4-6)

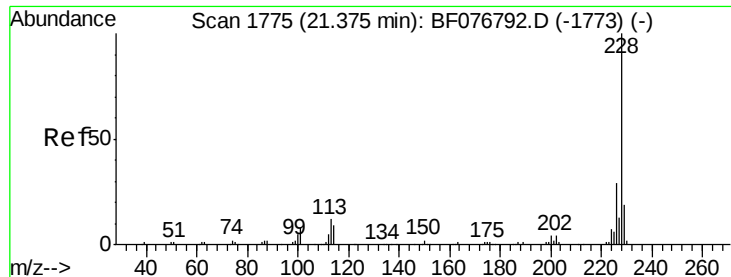
Tot Ion:244 Resp: 51307
 Ion Ratio Lower Upper
 244 100
 212 6.4 6.2 9.2
 122 11.9 11.3 16.9



#80
 Benzo(a)anthracene
 Concen: 141.02 ng
 RT: 21.34 min Scan# 1772
 Delta R.T. -0.00 min
 Lab File: BF076830.D
 Acq: 13 Jan 2015 5:19

Tgt Ion:228 Resp: 972483
 Ion Ratio Lower Upper
 228 100
 226 27.9 21.4 32.0
 229 21.2 15.0 22.4





#82

Chrysene

Concen: 117.40 ng/mL

RT: 21.39 min Scan# 1776

Delta R.T. 0.01 min

Lab File: BF076830.D

Acq: 13 Jan 2015 5:19

Instrument :

BNA_F

ClientSampleId :

TP3-SS-2(4-6)

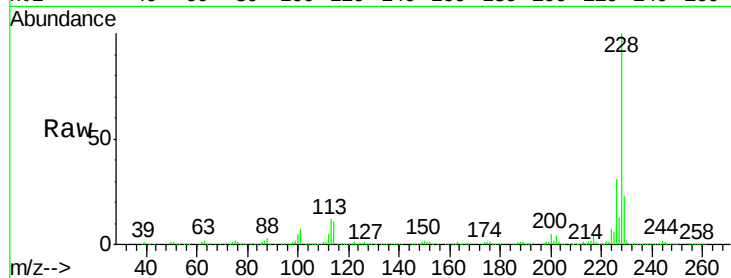
Tot Ion:228 Resp: 732489

Ion Ratio Lower Upper

228 100

226 30.8 23.3 34.9

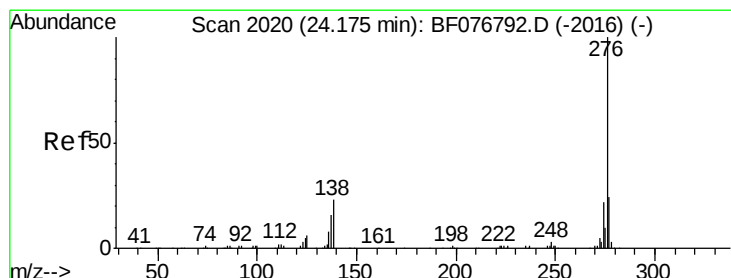
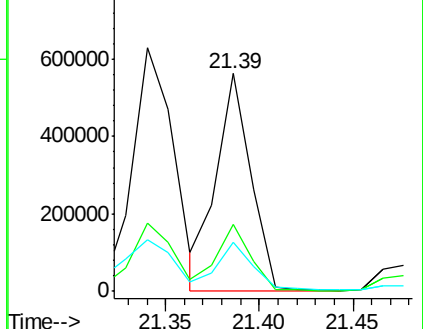
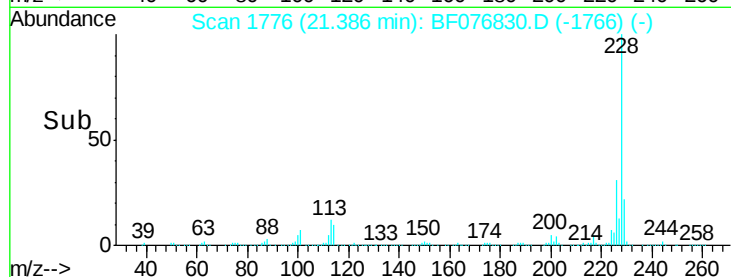
229 22.8 14.6 22.0#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 66.02 ng/mL

RT: 24.16 min Scan# 2019

Delta R.T. -0.01 min

Lab File: BF076830.D

Acq: 13 Jan 2015 5:19

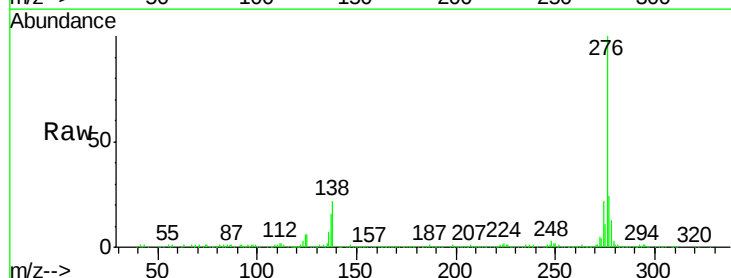
Tgt Ion:276 Resp: 407619

Ion Ratio Lower Upper

276 100

138 22.6 0.0 0.0#

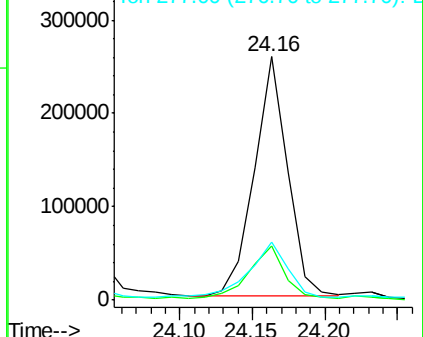
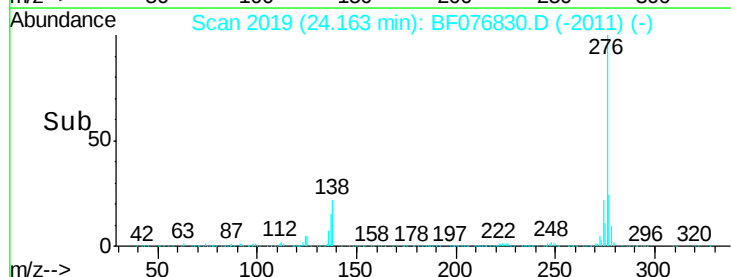
277 27.2 0.0 0.0#

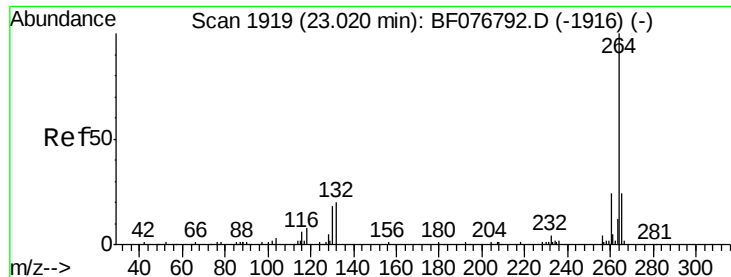


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.00 ng

RT: 23.02 min Scan# 1919

Delta R.T. -0.00 min

Lab File: BF076830.D

Acq: 13 Jan 2015 5:19

Instrument :

BNA_F

ClientSampleId :

TP3-SS-2(4-6)

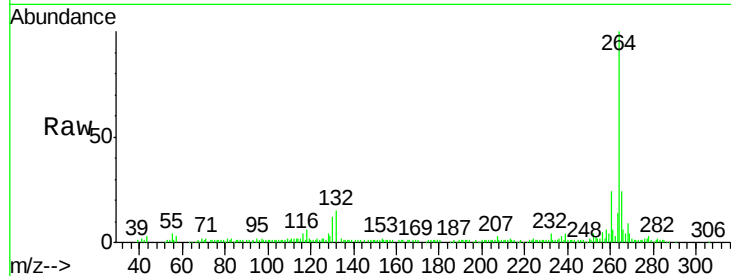
Tot Ion:264 Resp: 101117

Ion Ratio Lower Upper

264 100

260 24.3 19.4 29.0

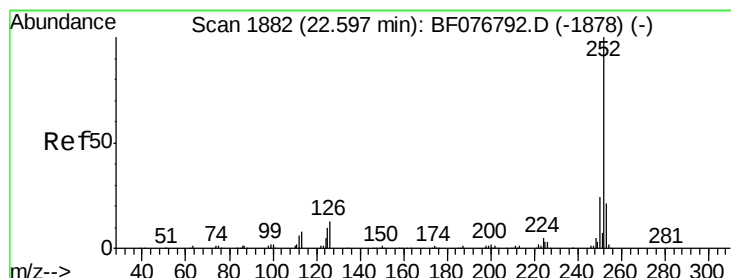
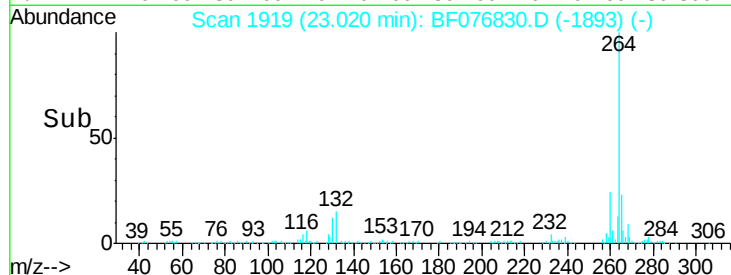
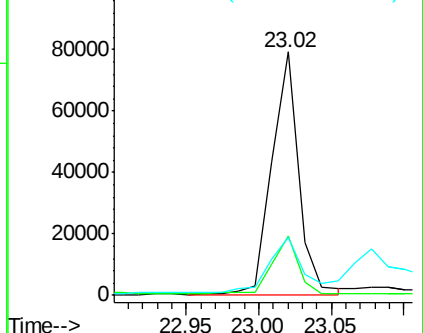
265 23.6 18.9 28.3



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: 135.37 ng m

RT: 22.61 min Scan# 1883

Delta R.T. 0.01 min

Lab File: BF076830.D

Acq: 13 Jan 2015 5:19

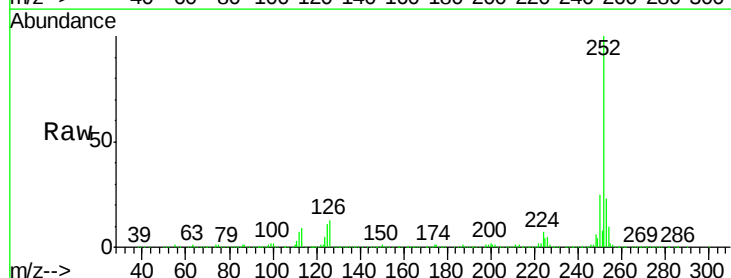
Tgt Ion:252 Resp: 948121

Ion Ratio Lower Upper

252 100

253 23.0 16.6 25.0

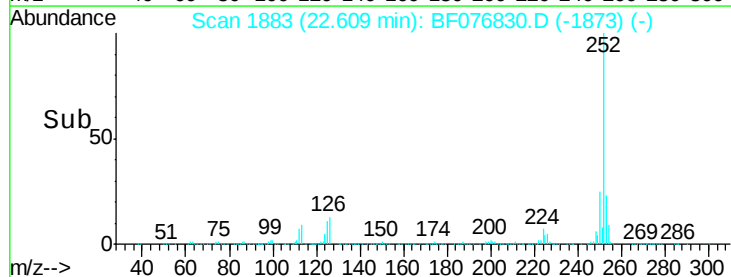
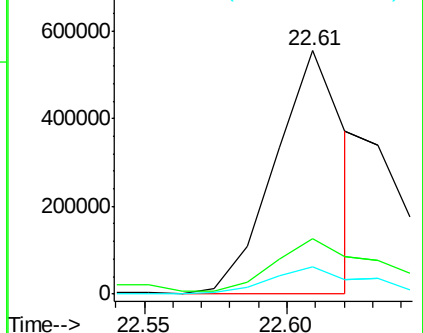
125 11.4 8.1 12.1

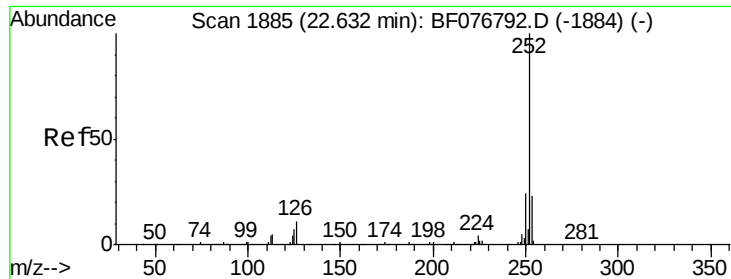


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

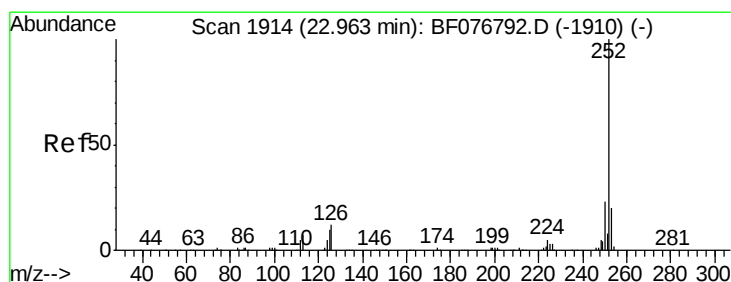
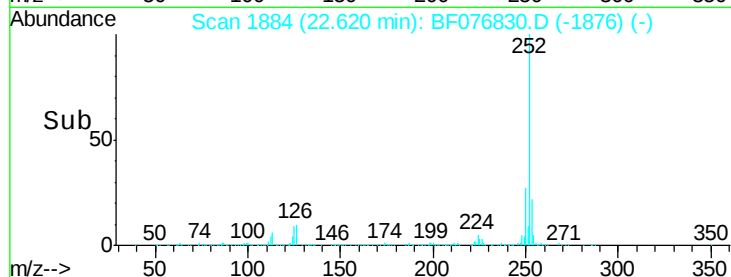
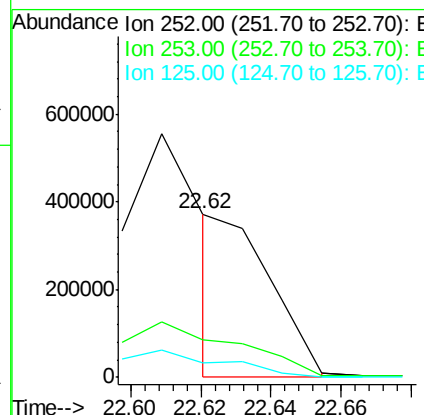
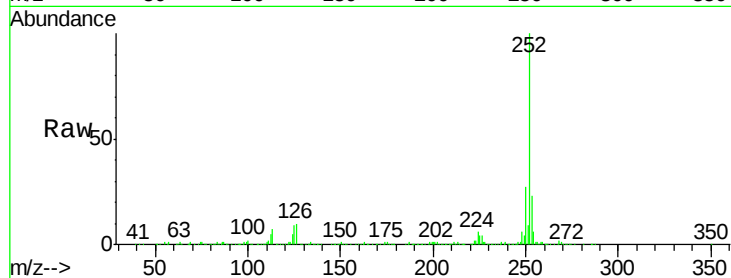




#88
Benzo(k)fluoranthene
Concen: 58.94 ng m
RT: 22.62 min Scan# 1884
Delta R.T. -0.01 min
Lab File: BF076830.D
Acq: 13 Jan 2015 5:19

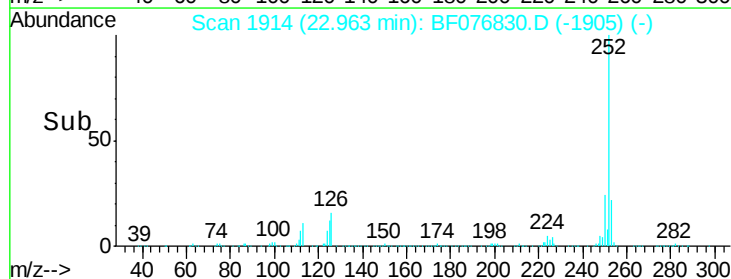
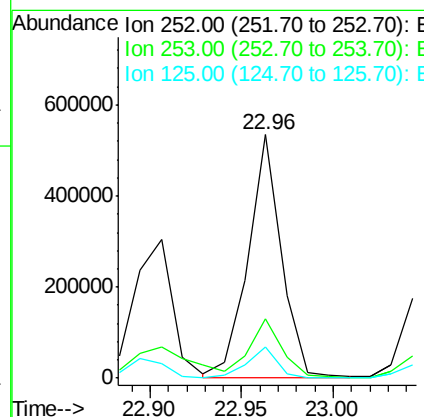
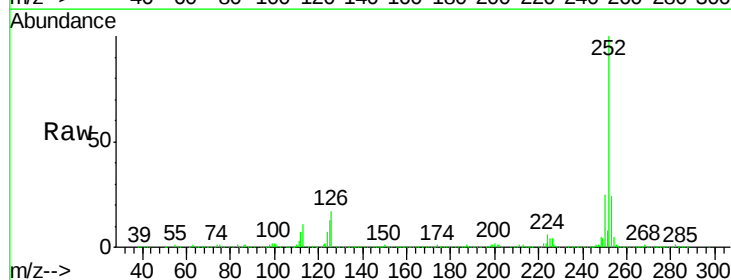
Instrument :
BNA_F
ClientSampleId :
TP3-SS-2(4-6)

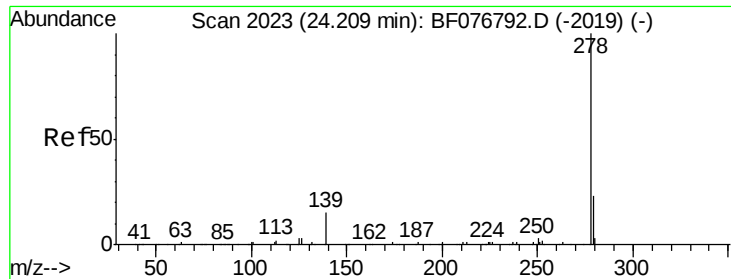
Tot Ion:252 Resp: 360839
Ion Ratio Lower Upper
252 100
253 23.3 17.7 26.5
125 8.9 7.5 11.3



#89
Benzo(a)pyrene
Concen: 112.25 ng m
RT: 22.96 min Scan# 1914
Delta R.T. -0.00 min
Lab File: BF076830.D
Acq: 13 Jan 2015 5:19

Tgt Ion:252 Resp: 675619
Ion Ratio Lower Upper
252 100
253 24.3 16.2 24.4
125 12.5 7.8 11.6#





#90

Dibenzo(a,h)anthracene

Concen: 17.55 ng

RT: 24.17 min Scan# 2020

Delta R.T. -0.03 min

Lab File: BF076830.D

Acq: 13 Jan 2015 5:19

Instrument :

BNA_F

ClientSampleId :

TP3-SS-2(4-6)

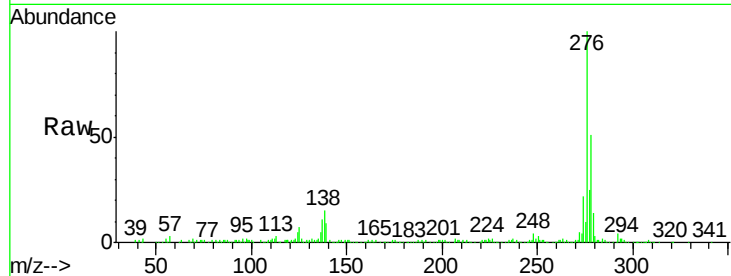
Tot Ion:278 Resp: 96234

Ion Ratio Lower Upper

278 100

139 17.0 12.2 18.4

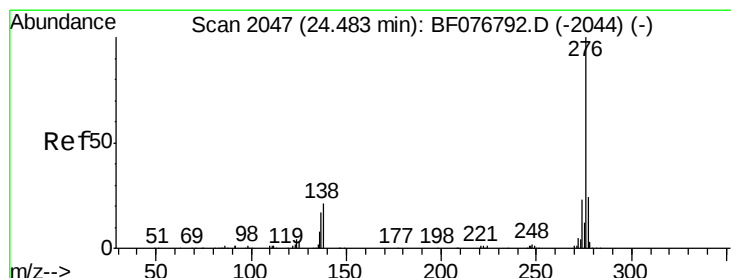
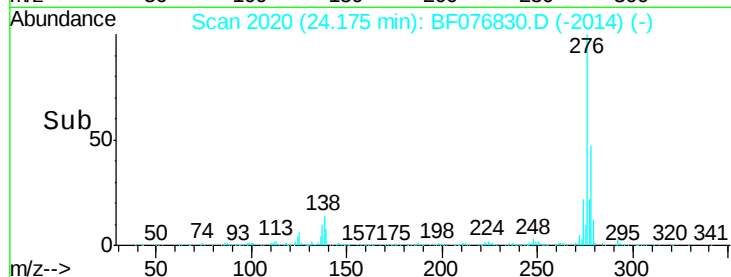
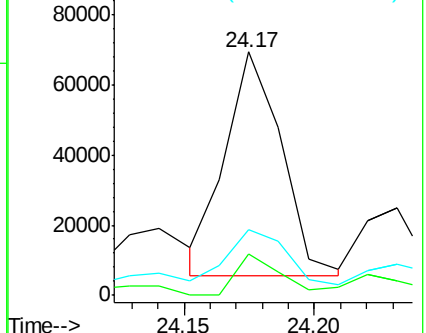
279 27.2 17.9 26.9#



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: 67.50 ng

RT: 24.47 min Scan# 2046

Delta R.T. -0.01 min

Lab File: BF076830.D

Acq: 13 Jan 2015 5:19

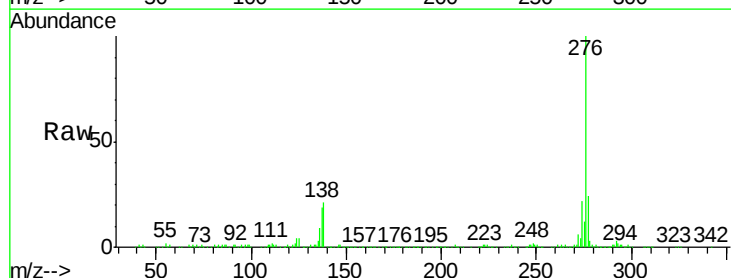
Tgt Ion:276 Resp: 377769

Ion Ratio Lower Upper

276 100

277 24.3 19.0 28.6

138 21.1 16.7 25.1



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

