

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040815\  
 Data File : BF078347.D  
 Acq On : 8 Apr 2015 21:31  
 Operator : TP/IZ  
 Sample : G1793-01  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-2S

Quant Time: Apr 09 01:49:55 2015  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040115.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Apr 09 00:49:15 2015  
 Response via : Initial Calibration

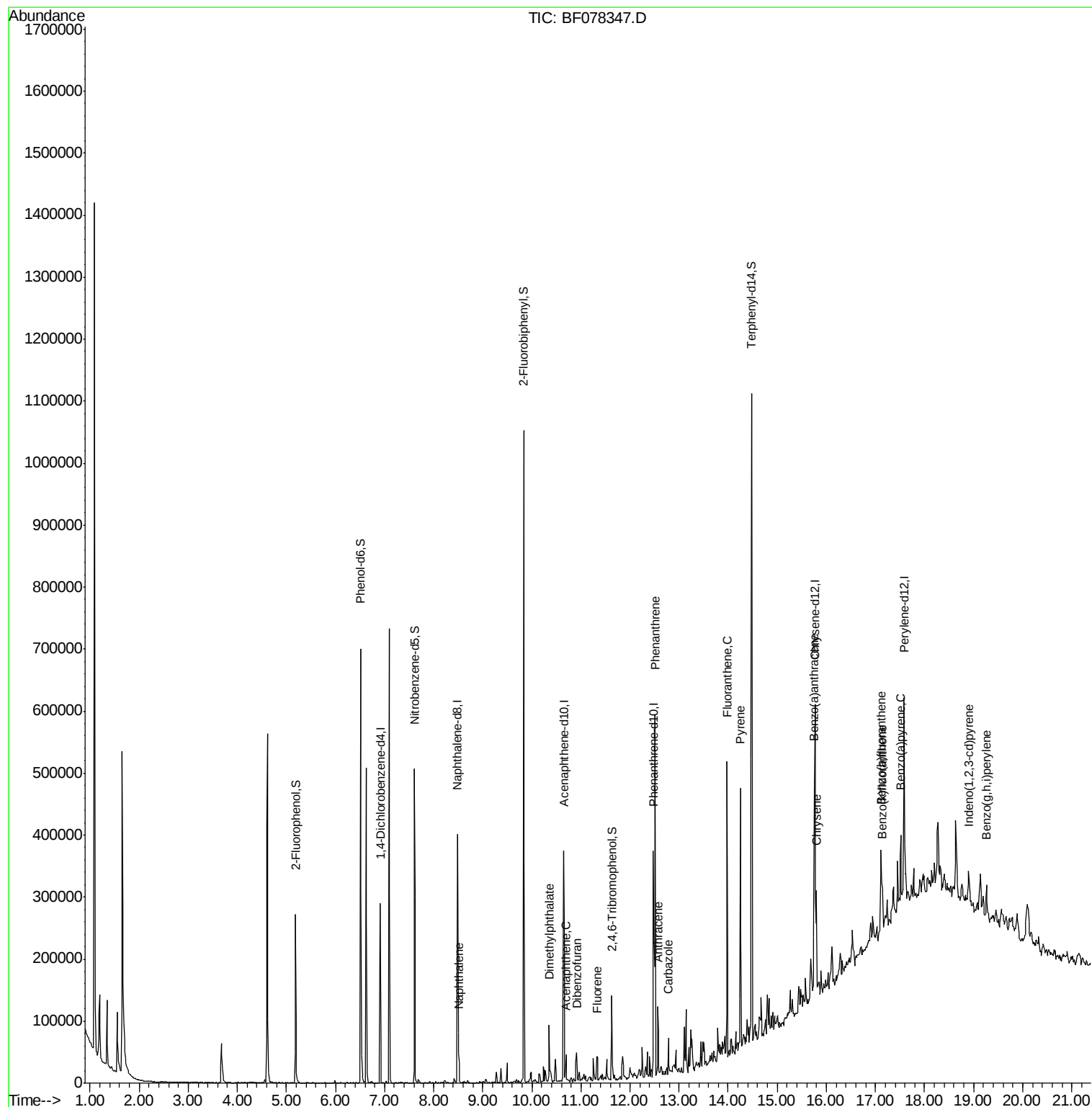
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.91  | 152  | 44877    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.49  | 136  | 180204   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 10.65 | 164  | 86943    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 12.48 | 188  | 167343   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 15.77 | 240  | 176881   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 17.59 | 264  | 168234   | 20.00 | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.18  | 112  | 95932    | 35.25 | ng    | 0.01     |
| 7) Phenol-d6                | 6.51  | 99   | 287353   | 84.24 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.61  | 82   | 201469   | 67.77 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 11.63 | 330  | 15703    | 21.78 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.84  | 172  | 359181   | 59.05 | ng    | 0.00     |
| 78) Terphenyl-d14           | 14.48 | 244  | 387868   | 49.55 | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 31) Naphthalene             | 8.51  | 128  | 22969    | 2.45  | ng    | 97       |
| 49) Dimethylphthalate       | 10.35 | 163  | 37231    | 5.70  | ng    | 98       |
| 51) Acenaphthene            | 10.69 | 154  | 11126    | 2.19  | ng    | 99       |
| 54) Dibenzofuran            | 10.91 | 168  | 21882    | 2.82  | ng    | 94       |
| 57) Fluorene                | 11.33 | 166  | 16411    | 2.61  | ng    | # 93     |
| 70) Phenanthrene            | 12.51 | 178  | 236179   | 24.40 | ng    | 100      |
| 71) Anthracene              | 12.57 | 178  | 55280    | 5.80  | ng    | 96       |
| 72) Carbazole               | 12.79 | 167  | 25127    | 2.81  | ng    | 98       |
| 74) Fluoranthene            | 13.97 | 202  | 214861   | 21.05 | ng    | 95       |
| 77) Pyrene                  | 14.25 | 202  | 181641   | 16.36 | ng    | # 93     |
| 80) Benzo(a)anthracene      | 15.76 | 228  | 100879   | 9.59  | ng    | 97       |
| 82) Chrysene                | 15.80 | 228  | 75304    | 7.62  | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene  | 18.90 | 276  | 35633    | 3.18  | ng    | # 82     |
| 87) Benzo(b)fluoranthene    | 17.12 | 252  | 81140m   | 7.80  | ng    |          |
| 88) Benzo(k)fluoranthene    | 17.13 | 252  | 37482m   | 4.06  | ng    |          |
| 89) Benzo(a)pyrene          | 17.52 | 252  | 63803    | 7.03  | ng    | # 88     |
| 91) Benzo(a,h,i)perylene    | 19.27 | 276  | 36151    | 3.97  | ng    | 96       |

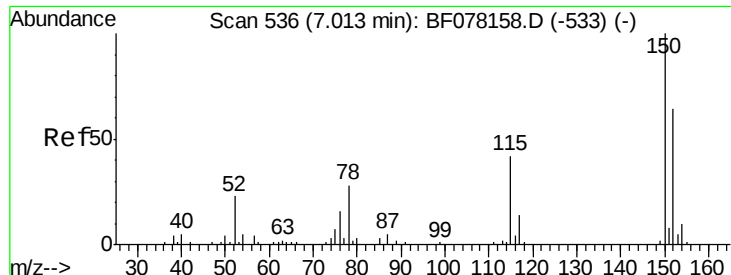
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040815\  
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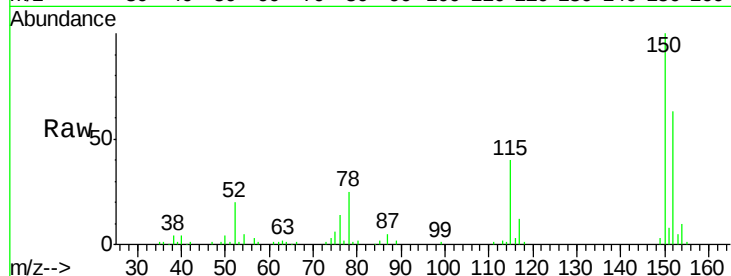


#1

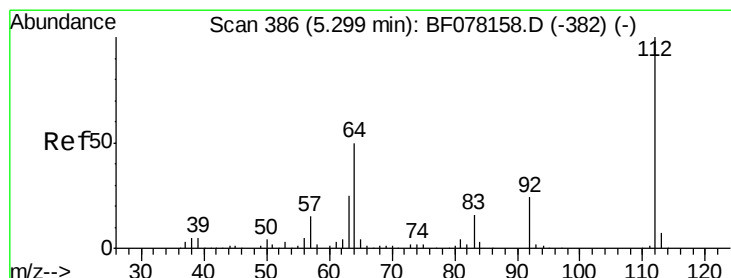
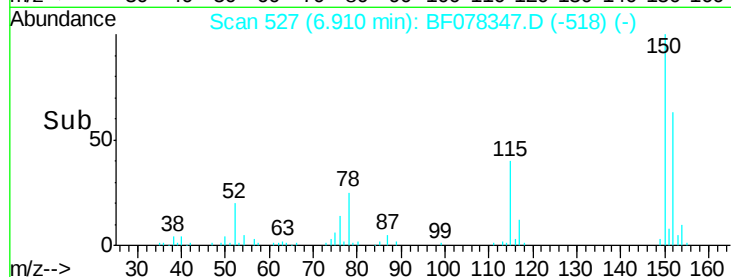
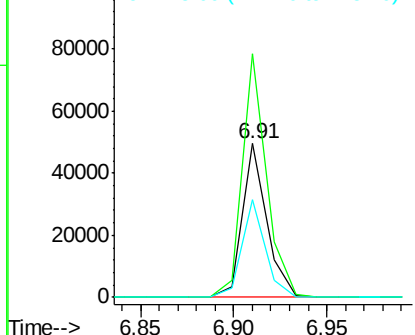
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.91 min Scan# 527  
Delta R.T. -0.00 min  
Lab File: BF078347.D  
Acq: 8 Apr 2015 21:31

Instrument :  
BNA\_F  
ClientSampleId :  
SB-2S

Tot Ion:152 Resp: 44877  
Ion Ratio Lower Upper  
152 100  
150 158.6 125.9 188.9  
115 63.3 52.7 79.1



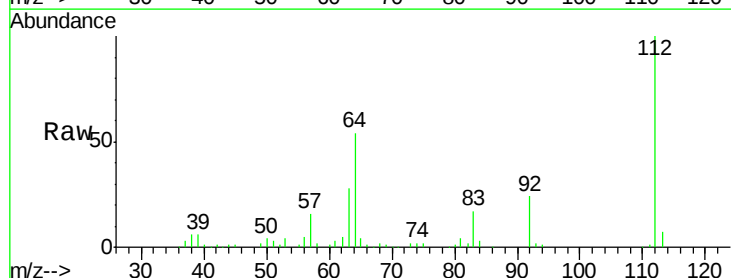
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



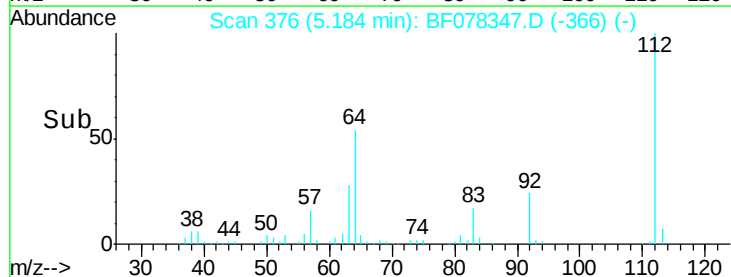
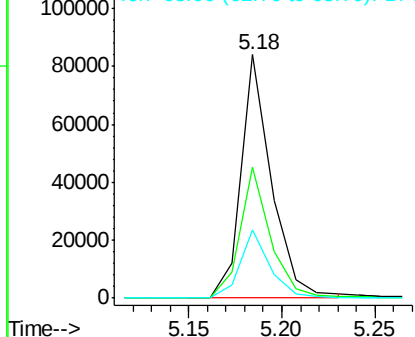
#5

2-Fluorophenol  
Concen: 35.25 ng  
RT: 5.18 min Scan# 376  
Delta R.T. 0.01 min  
Lab File: BF078347.D  
Acq: 8 Apr 2015 21:31

Tgt Ion:112 Resp: 95932  
Ion Ratio Lower Upper  
112 100  
64 53.6 39.9 59.9  
63 27.9 20.2 30.4



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





#7

Phenol-d6

Concen: 84.24 ng

RT: 6.51 min Scan# 492

Delta R.T. -0.00 min

Lab File: BF078347.D

Acq: 8 Apr 2015 21:31

Instrument :

BNA\_F

ClientSampleId :

SB-2S

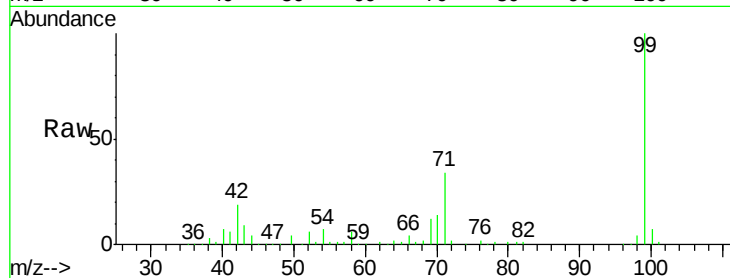
Tot Ion: 99 Resp: 287353

Ion Ratio Lower Upper

99 100

42 18.5 14.8 22.2

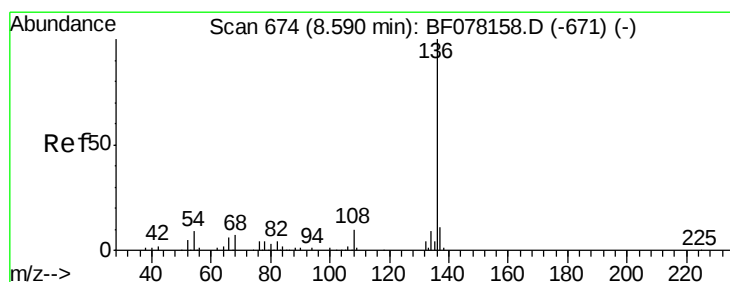
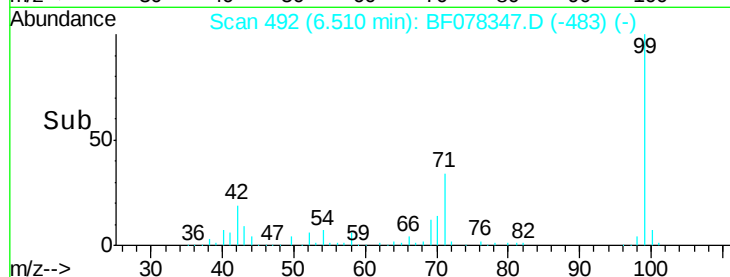
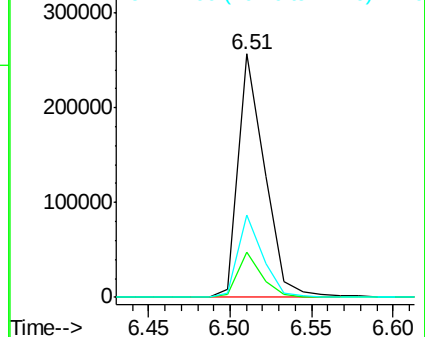
71 33.8 26.6 39.8



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.49 min Scan# 665

Delta R.T. -0.00 min

Lab File: BF078347.D

Acq: 8 Apr 2015 21:31

Tgt Ion: 136 Resp: 180204

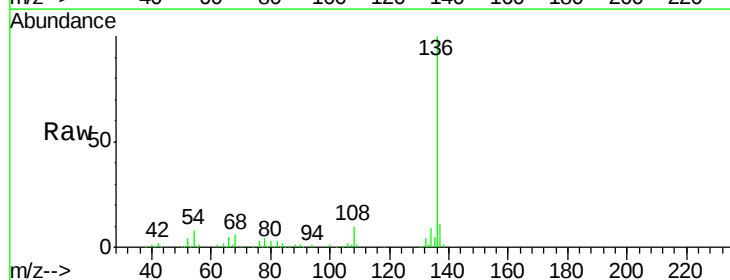
Ion Ratio Lower Upper

136 100

137 11.0 9.0 13.4

54 7.8 7.0 10.6

68 5.9 5.4 8.2

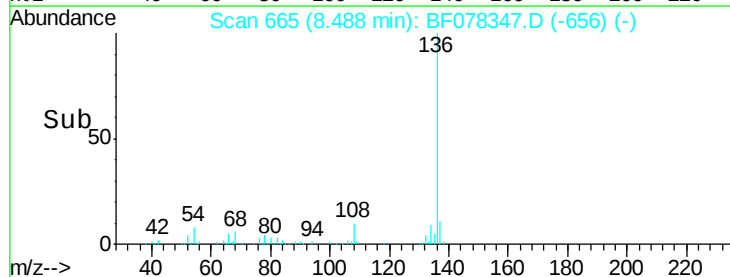
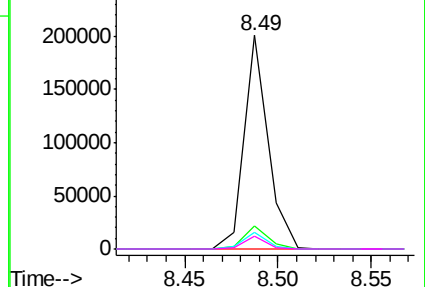


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

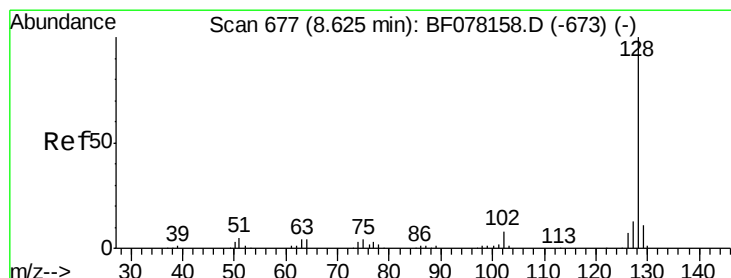
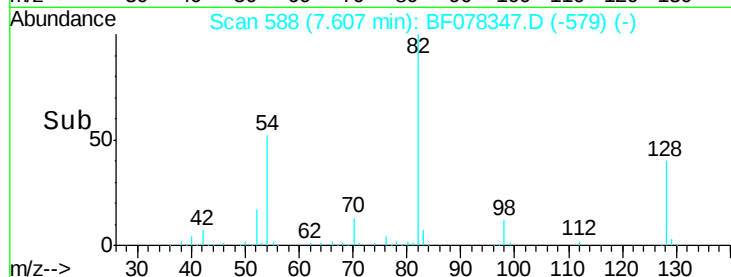
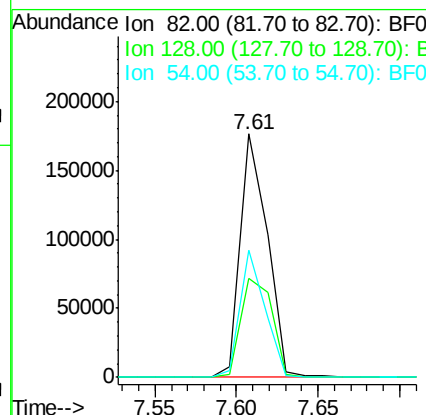
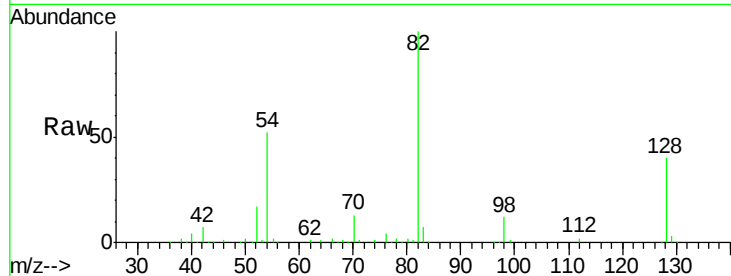




#23  
 Nitrobenzene-d5  
 Concen: 67.77 ng  
 RT: 7.61 min Scan# 588  
 Delta R.T. -0.00 min  
 Lab File: BF078347.D  
 Acq: 8 Apr 2015 21:31

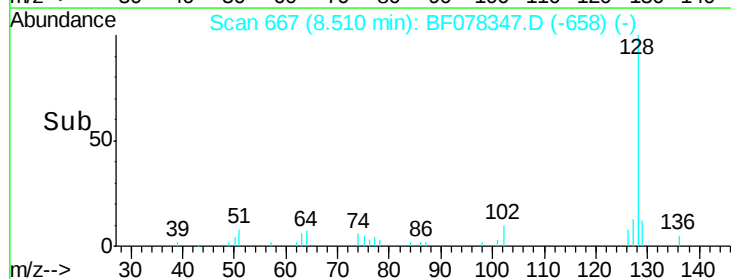
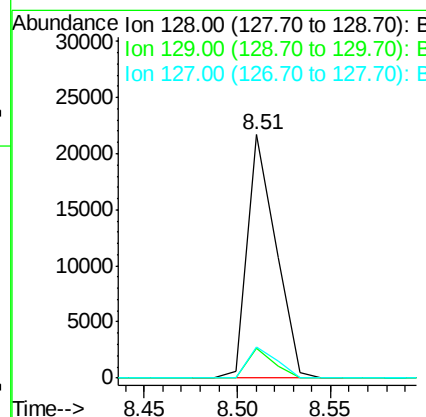
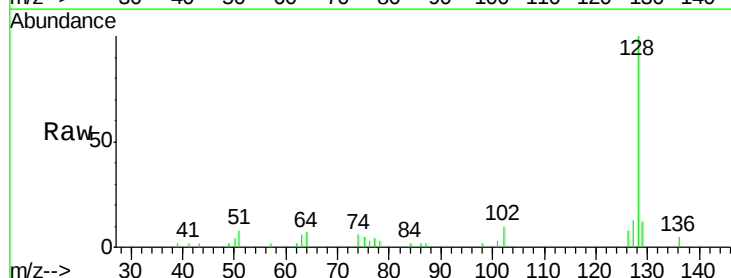
Instrument :  
 BNA\_F  
 ClientSampleID :  
 SB-2S

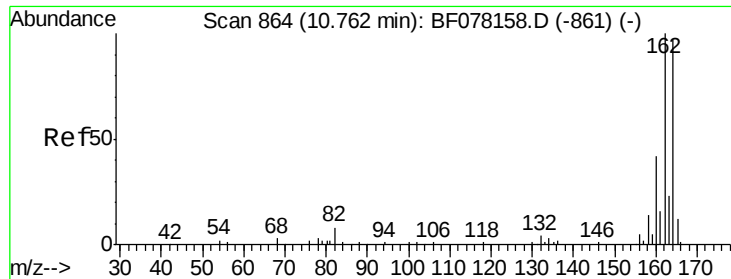
Tot Ion: 82 Resp: 201469  
 Ion Ratio Lower Upper  
 82 100  
 128 40.4 31.8 47.8  
 54 52.2 41.5 62.3



#31  
 Naphthalene  
 Concen: 2.45 ng  
 RT: 8.51 min Scan# 667  
 Delta R.T. -0.00 min  
 Lab File: BF078347.D  
 Acq: 8 Apr 2015 21:31

Tgt Ion: 128 Resp: 22969  
 Ion Ratio Lower Upper  
 128 100  
 129 12.5 8.6 12.8  
 127 12.6 10.7 16.1

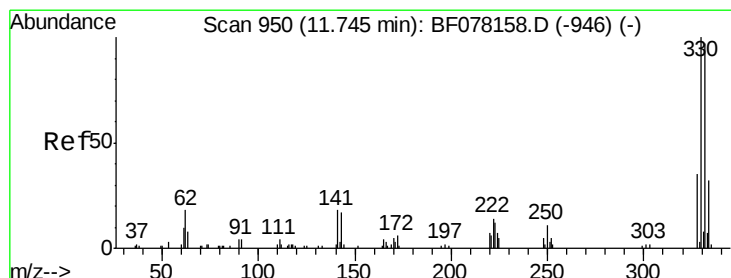
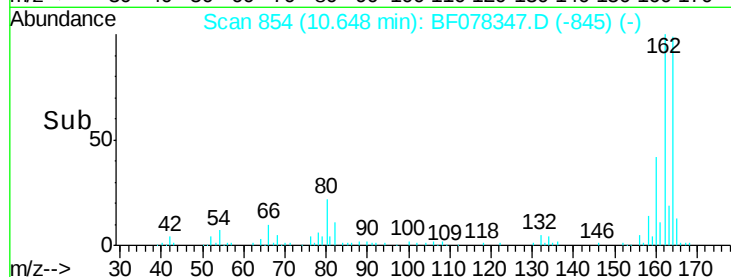
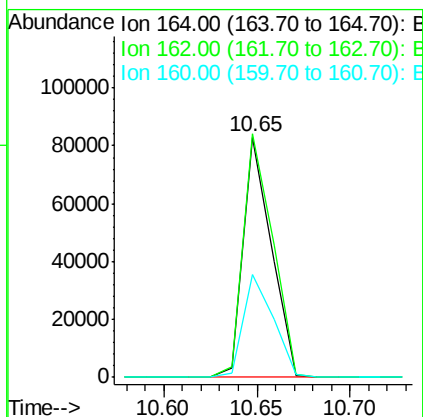
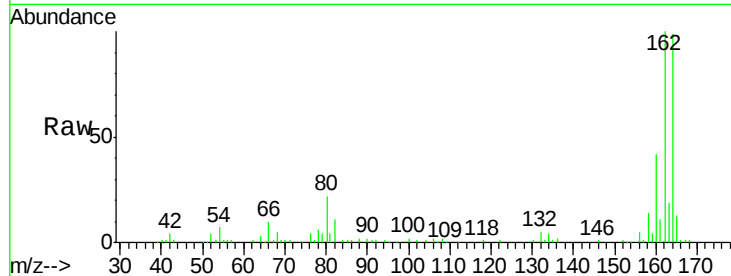




#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 10.65 min Scan# 854  
Delta R.T. -0.00 min  
Lab File: BF078347.D  
Acq: 8 Apr 2015 21:31

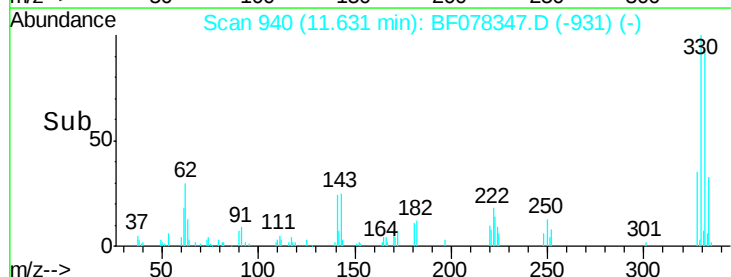
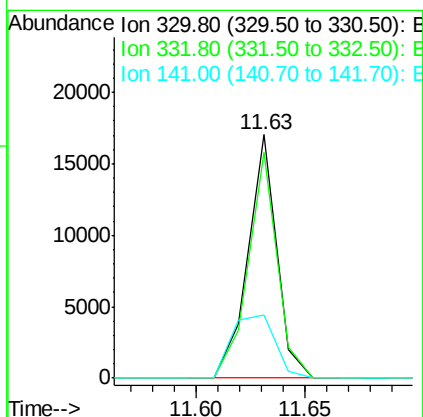
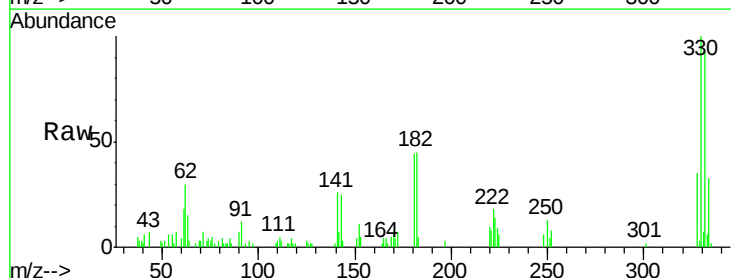
Instrument :  
BNA\_F  
ClientSampled :  
SB-2S

Tot Ion:164 Resp: 86943  
Ion Ratio Lower Upper  
164 100  
162 101.5 82.2 123.2  
160 43.1 34.7 52.1



#41  
2,4,6-Tribromophenol  
Concen: 21.78 ng  
RT: 11.63 min Scan# 940  
Delta R.T. -0.00 min  
Lab File: BF078347.D  
Acq: 8 Apr 2015 21:31

Tgt Ion:330 Resp: 15703  
Ion Ratio Lower Upper  
330 100  
332 93.4 78.6 117.8  
141 39.1 31.2 46.8

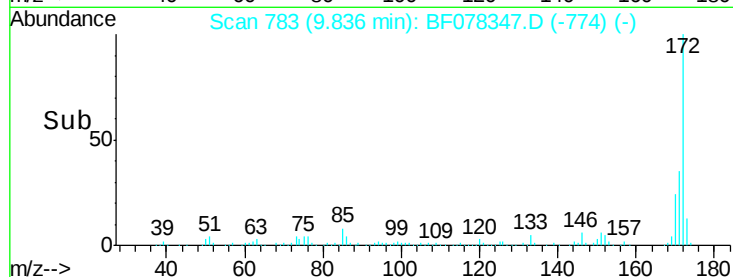
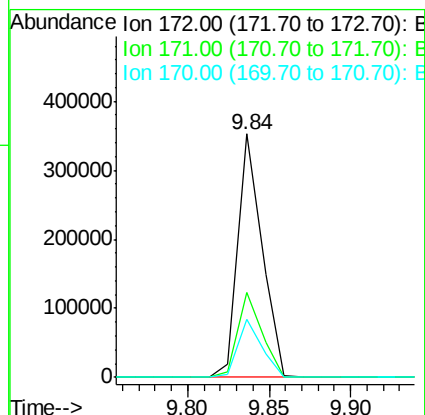
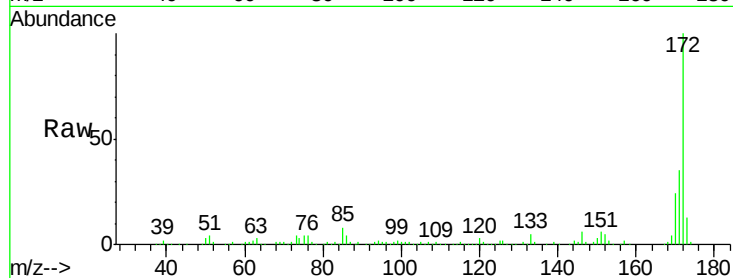




#44  
2-Fluorobiphenyl  
Concen: 59.05 ng  
RT: 9.84 min Scan# 783  
Delta R.T. -0.00 min  
Lab File: BF078347.D  
Acq: 8 Apr 2015 21:31

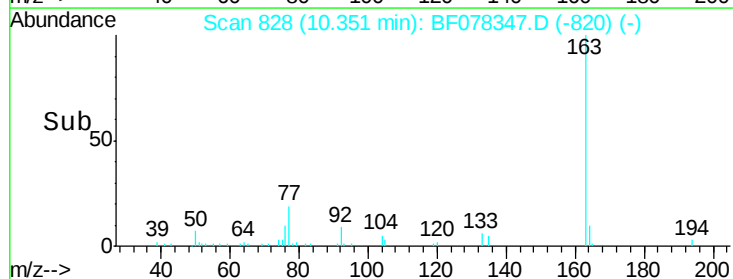
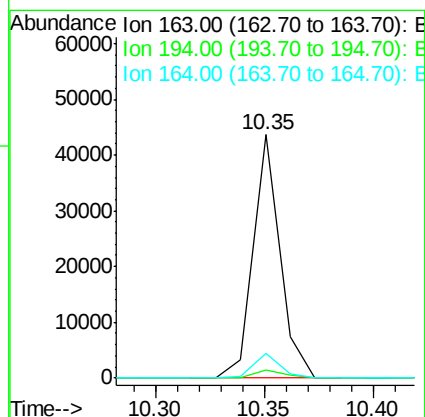
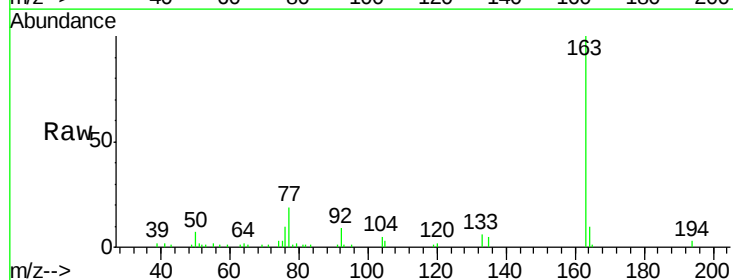
Instrument :  
BNA\_F  
ClientSampleId :  
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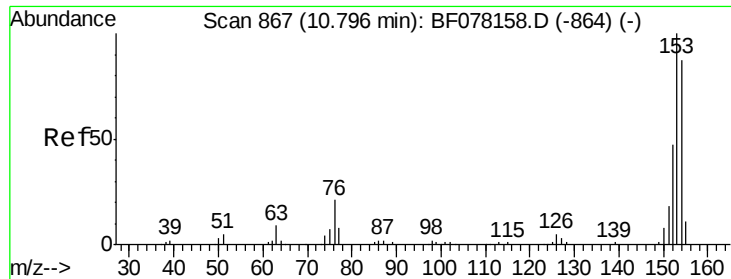
Tot Ion:172 Resp: 359181  
Ion Ratio Lower Upper  
172 100  
171 34.8 28.6 42.8  
170 23.9 18.5 27.7



#49  
Dimethylphthalate  
Concen: 5.70 ng  
RT: 10.35 min Scan# 828  
Delta R.T. -0.01 min  
Lab File: BF078347.D  
Acq: 8 Apr 2015 21:31

Tgt Ion:163 Resp: 37231  
Ion Ratio Lower Upper  
163 100  
194 3.2 2.3 3.5  
164 10.0 8.6 13.0

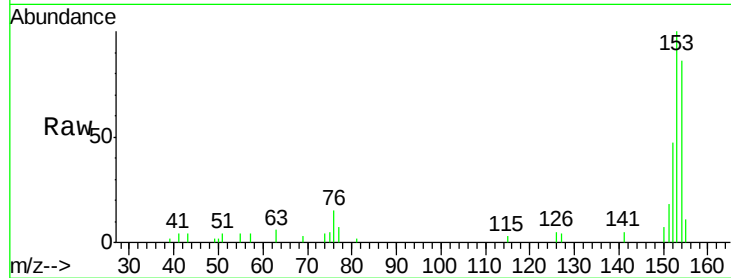




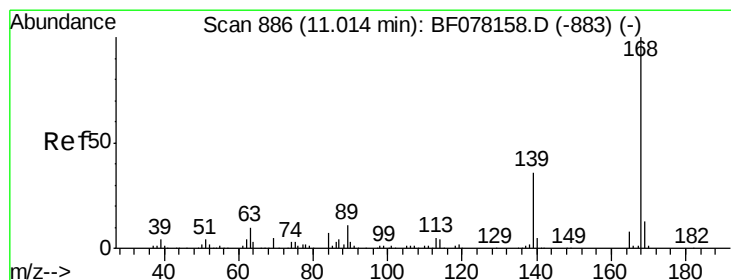
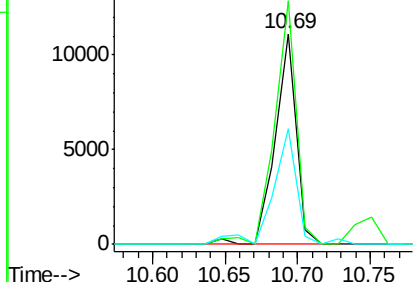
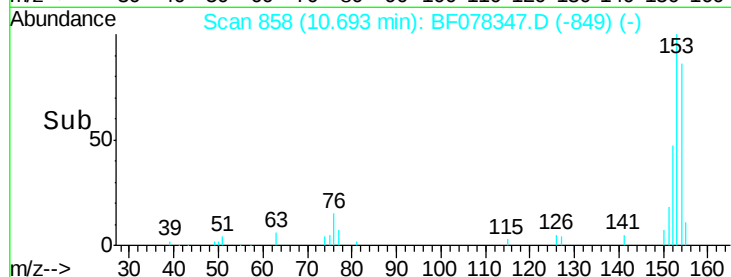
#51  
Acenaphthene  
Concen: 2.19 ng  
RT: 10.69 min Scan# 858  
Delta R.T. -0.00 min  
Lab File: BF078347.D  
Acq: 8 Apr 2015 21:31

Instrument :  
BNA\_F  
ClientSampleId :  
SB-2S

Tot Ion:154 Resp: 11126  
Ion Ratio Lower Upper  
154 100  
153 115.6 91.4 137.2  
152 54.8 43.0 64.6

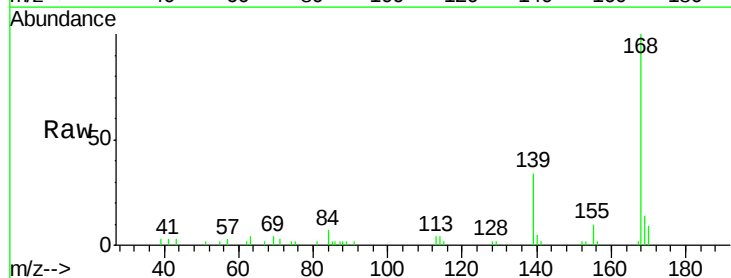


Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E

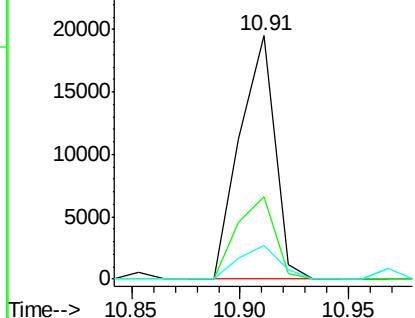
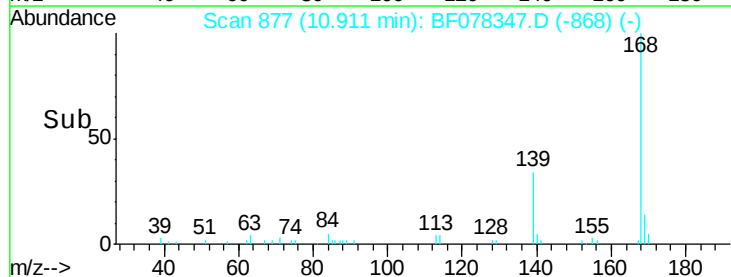


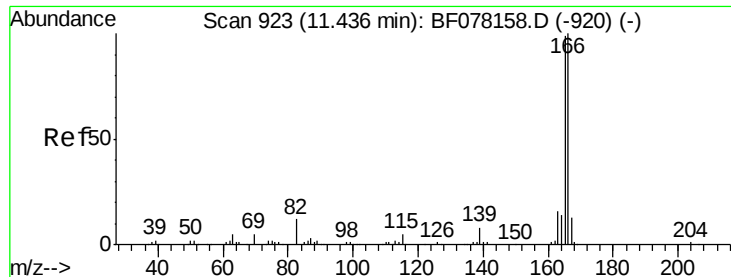
#54  
Dibenzofuran  
Concen: 2.82 ng  
RT: 10.91 min Scan# 877  
Delta R.T. -0.00 min  
Lab File: BF078347.D  
Acq: 8 Apr 2015 21:31

Tgt Ion:168 Resp: 21882  
Ion Ratio Lower Upper  
168 100  
139 33.9 31.0 46.4  
169 13.9 10.7 16.1



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

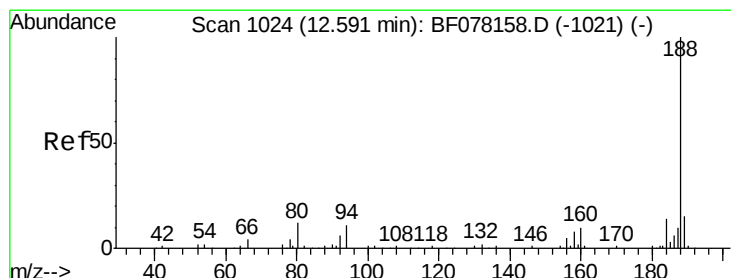
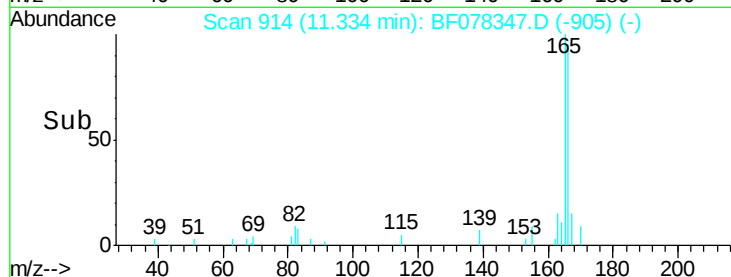
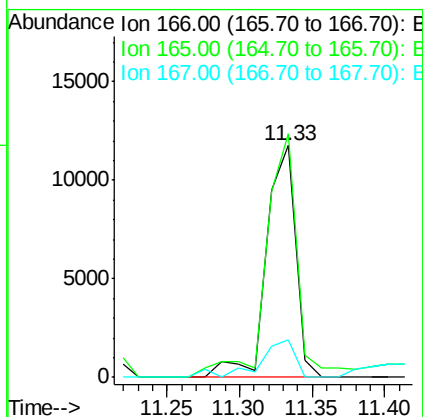
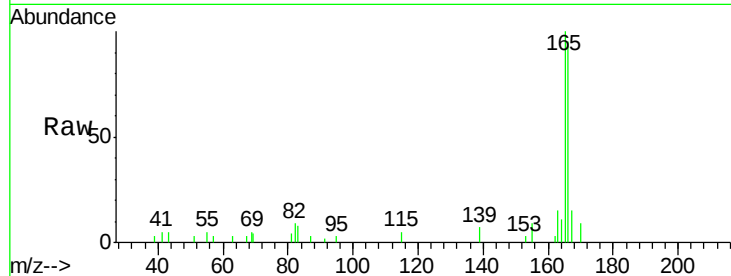




#57  
 Fluorene  
 Concen: 2.61 ng  
 RT: 11.33 min Scan# 914  
 Delta R.T. -0.00 min  
 Lab File: BF078347.D  
 Acq: 8 Apr 2015 21:31

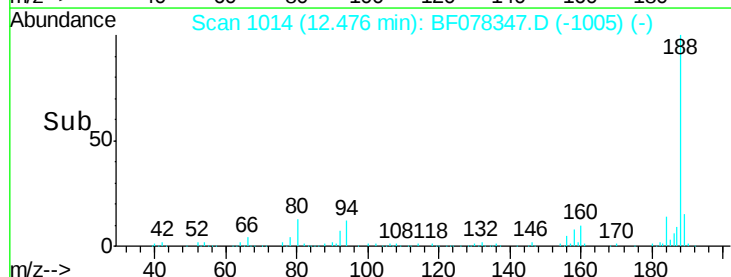
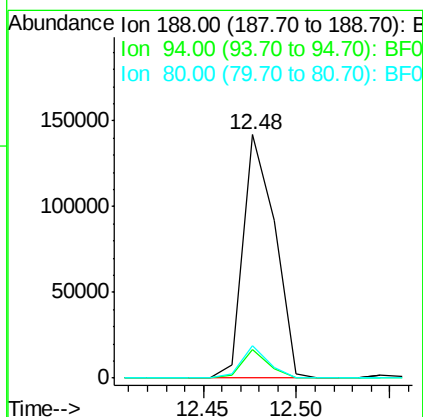
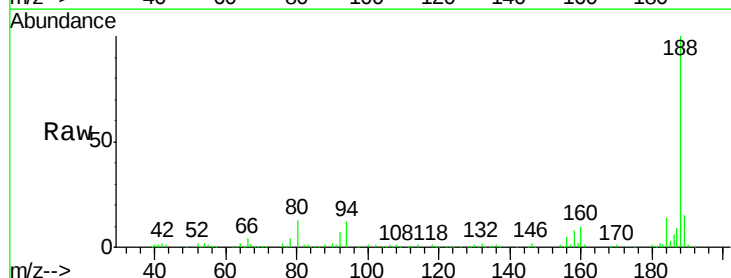
Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-2S

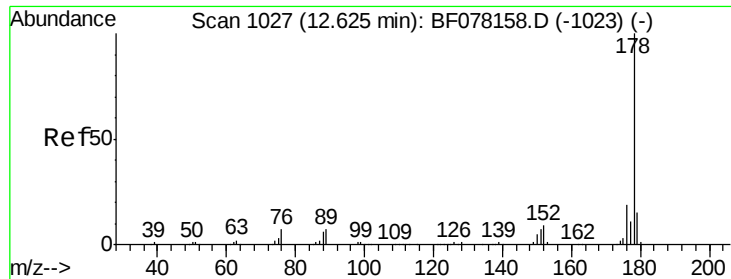
Tot Ion:166 Resp: 16411  
 Ion Ratio Lower Upper  
 166 100  
 165 105.1 78.9 118.3  
 167 16.2 10.7 16.1#



#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 12.48 min Scan# 1014  
 Delta R.T. -0.00 min  
 Lab File: BF078347.D  
 Acq: 8 Apr 2015 21:31

Tgt Ion:188 Resp: 167343  
 Ion Ratio Lower Upper  
 188 100  
 94 12.0 9.0 13.4  
 80 13.1 9.5 14.3

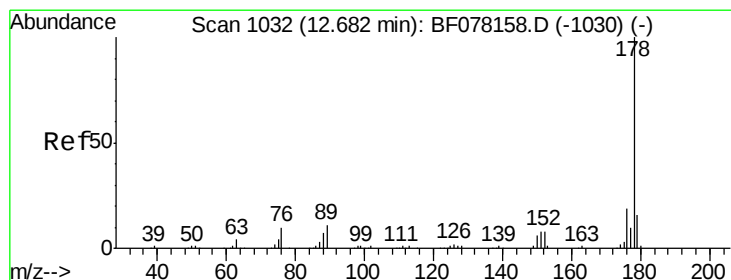
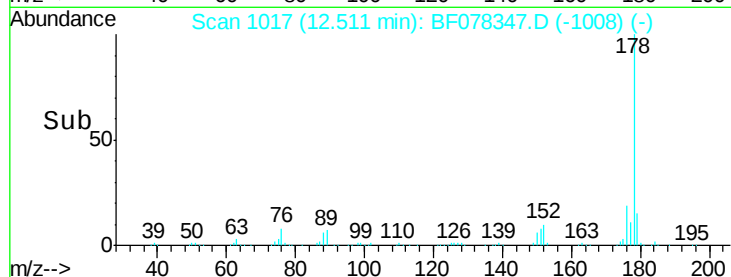
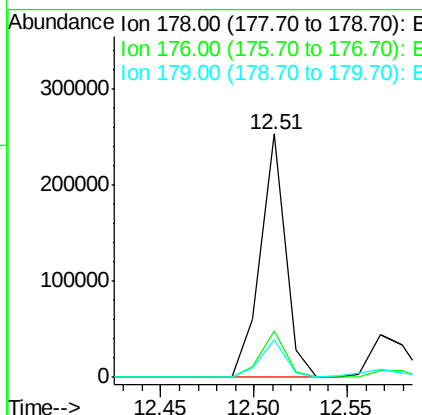
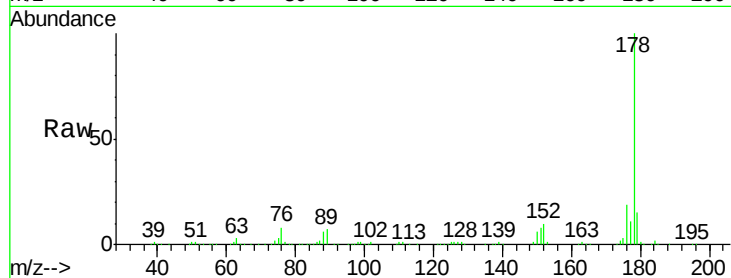




#70  
Phenanthrene  
Concen: 24.40 ng  
RT: 12.51 min Scan# 1017  
Delta R.T. -0.00 min  
Lab File: BF078347.D  
Acq: 8 Apr 2015 21:31

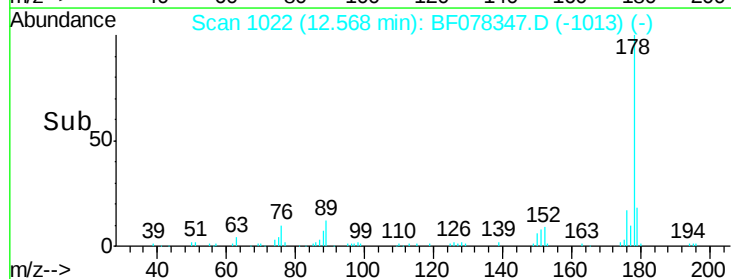
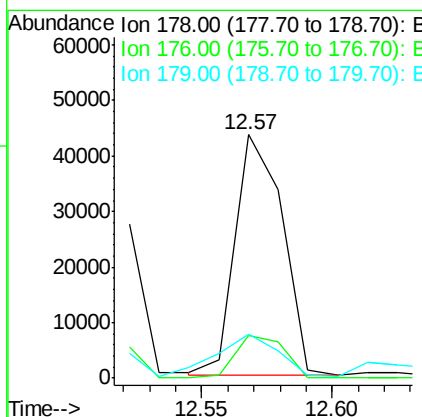
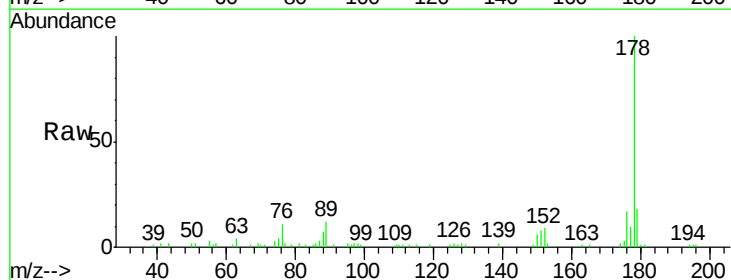
Instrument :  
BNA\_F  
ClientSampleId :  
SB-2S

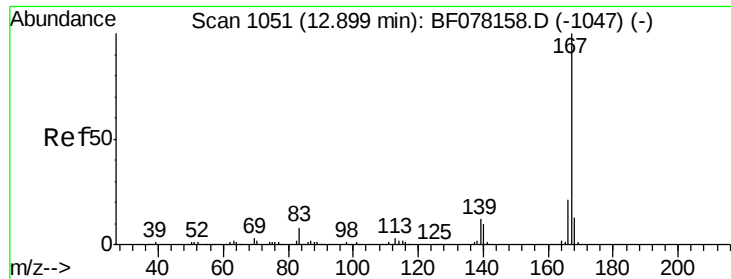
Tot Ion:178 Resp: 236179  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.4 23.0  
179 15.2 12.2 18.2



#71  
Anthracene  
Concen: 5.80 ng  
RT: 12.57 min Scan# 1022  
Delta R.T. -0.00 min  
Lab File: BF078347.D  
Acq: 8 Apr 2015 21:31

Tgt Ion:178 Resp: 55280  
Ion Ratio Lower Upper  
178 100  
176 17.5 14.8 22.2  
179 17.9 12.4 18.6





#72

Carbazole

Concen: 2.81 ng

RT: 12.79 min Scan# 1041

Delta R.T. -0.00 min

Lab File: BF078347.D

Acq: 8 Apr 2015 21:31

Instrument :

BNA\_F

ClientSampleId :

SB-2S

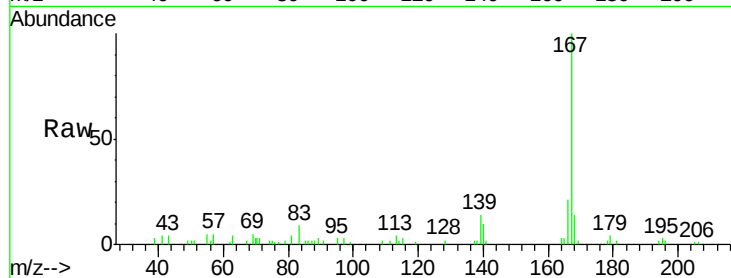
Tot Ion:167 Resp: 25127

Ion Ratio Lower Upper

167 100

166 20.6 16.8 25.2

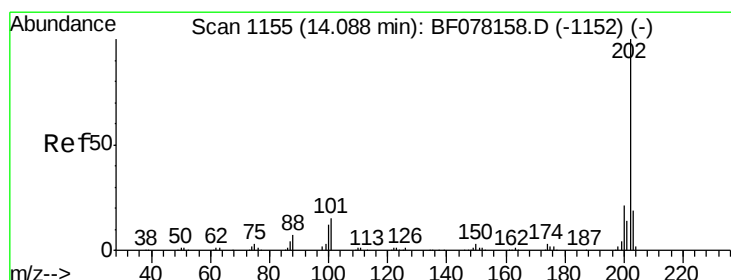
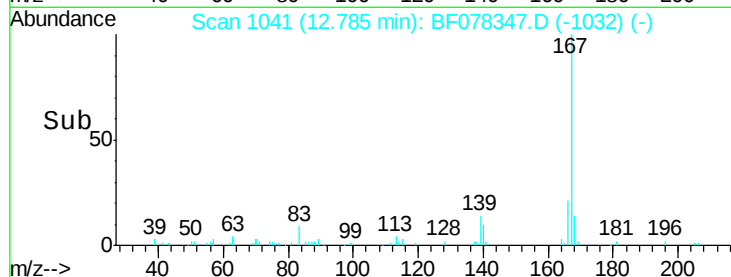
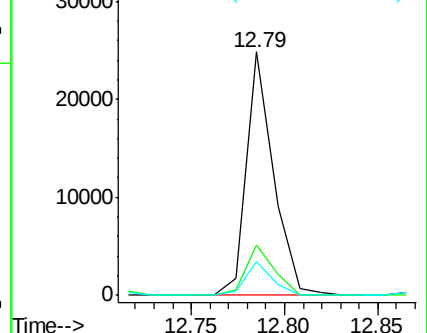
139 13.9 10.0 15.0



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: 21.05 ng

RT: 13.97 min Scan# 1145

Delta R.T. -0.00 min

Lab File: BF078347.D

Acq: 8 Apr 2015 21:31

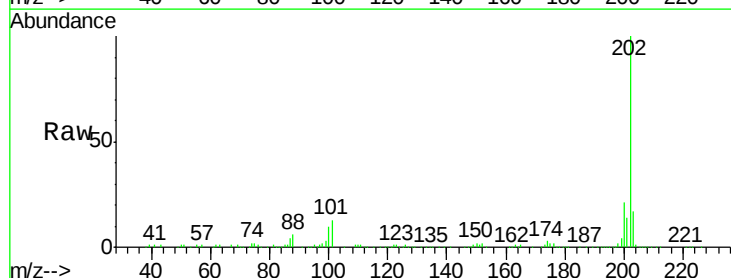
Tgt Ion:202 Resp: 214861

Ion Ratio Lower Upper

202 100

101 12.7 0.0 35.2

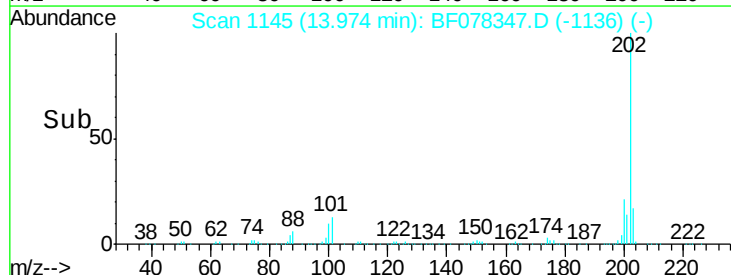
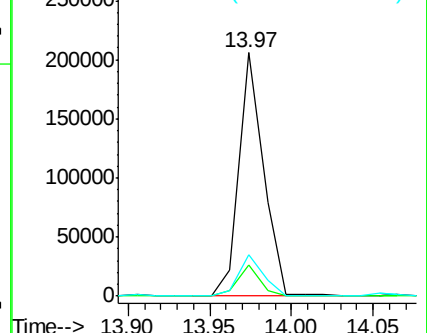
203 17.0 0.0 38.5

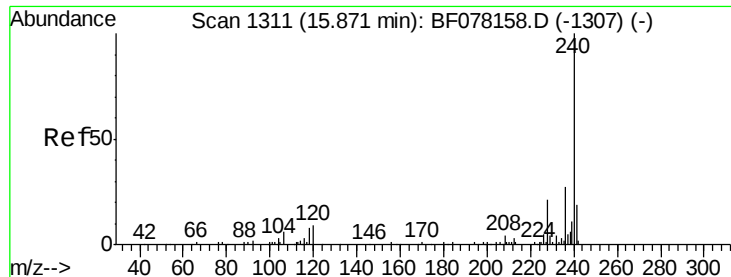


Abundance Ion 202.00 (201.70 to 202.70): E

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: 15.77 min Scan# 1302

Delta R.T. -0.00 min

Lab File: BF078347.D

Acq: 8 Apr 2015 21:31

Instrument :

BNA\_F

ClientSampleId :

SB-2S

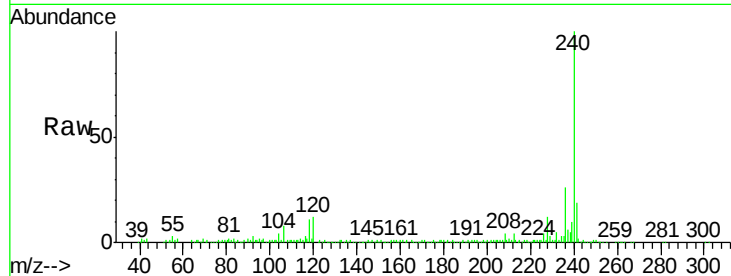
Tot Ion:240 Resp: 176881

Ion Ratio Lower Upper

240 100

120 12.0 7.1 10.7#

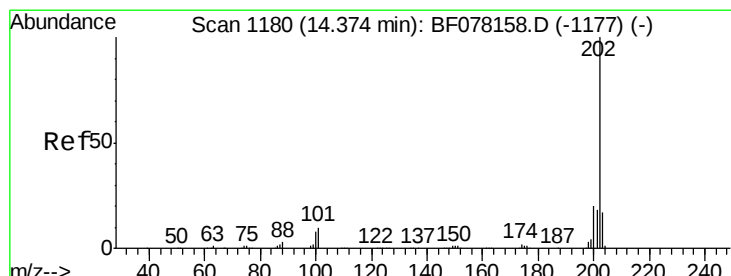
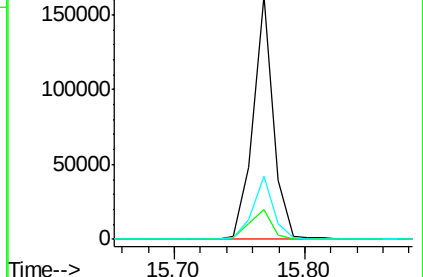
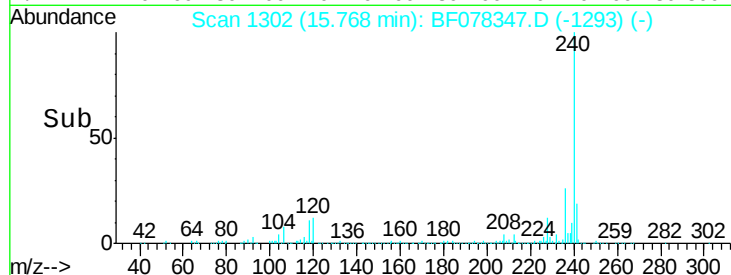
236 26.0 21.4 32.2



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 16.36 ng

RT: 14.25 min Scan# 1169

Delta R.T. -0.00 min

Lab File: BF078347.D

Acq: 8 Apr 2015 21:31

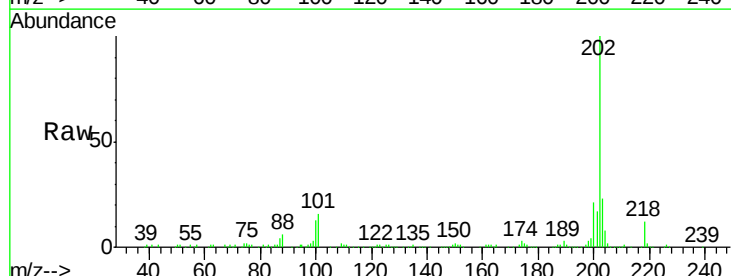
Tgt Ion:202 Resp: 181641

Ion Ratio Lower Upper

202 100

200 21.3 16.3 24.5

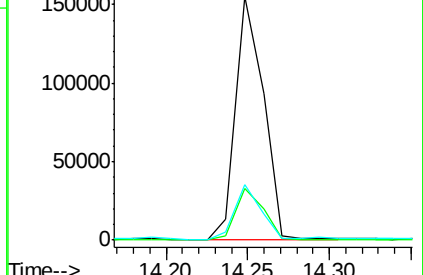
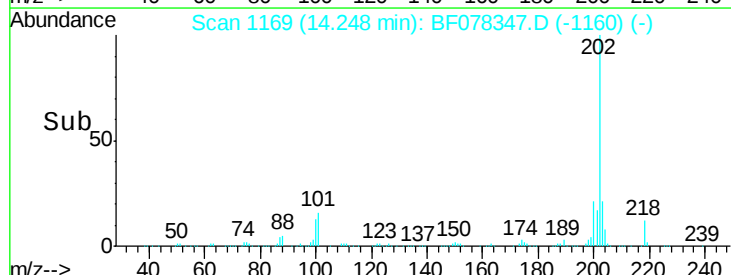
203 22.7 13.8 20.6#

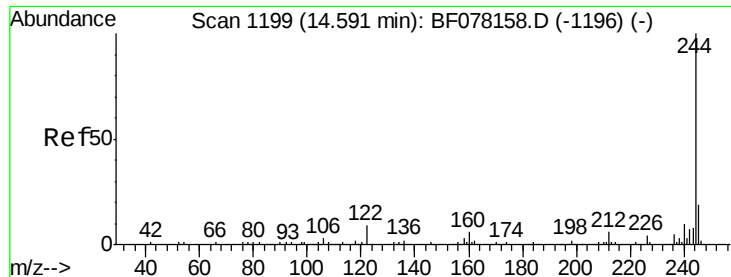


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 49.55 ng

RT: 14.48 min Scan# 1189

Delta R.T. -0.00 min

Lab File: BF078347.D

Acq: 8 Apr 2015 21:31

Instrument :

BNA\_F

ClientSampled :

SB-2S

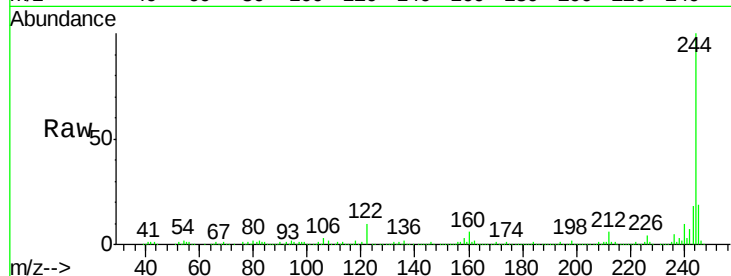
Tot Ion:244 Resp: 387868

Ion Ratio Lower Upper

244 100

212 6.3 5.0 7.4

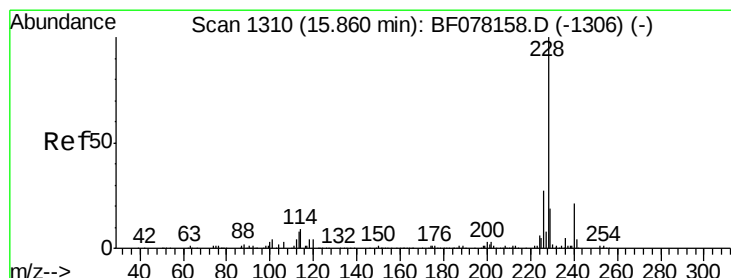
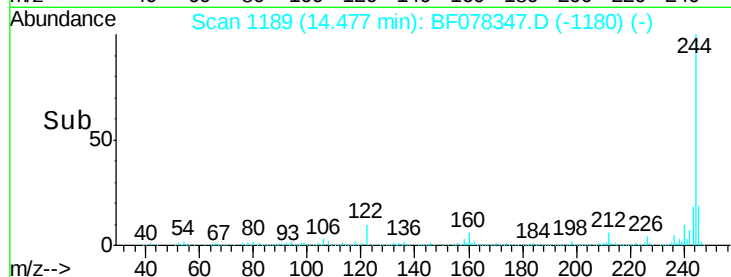
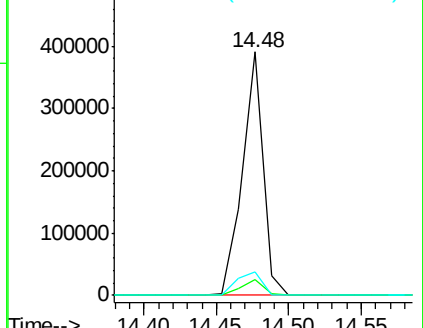
122 9.7 7.1 10.7



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#80

Benzo(a)anthracene

Concen: 9.59 ng

RT: 15.76 min Scan# 1301

Delta R.T. -0.00 min

Lab File: BF078347.D

Acq: 8 Apr 2015 21:31

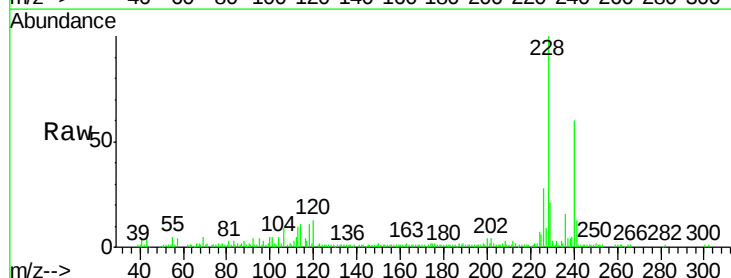
Tgt Ion:228 Resp: 100879

Ion Ratio Lower Upper

228 100

226 28.1 21.3 31.9

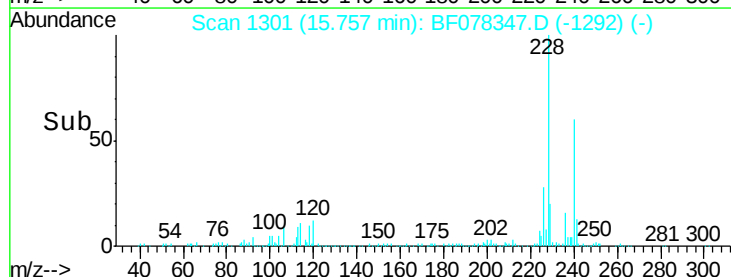
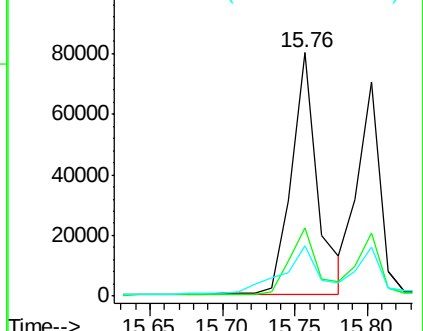
229 20.9 15.4 23.2

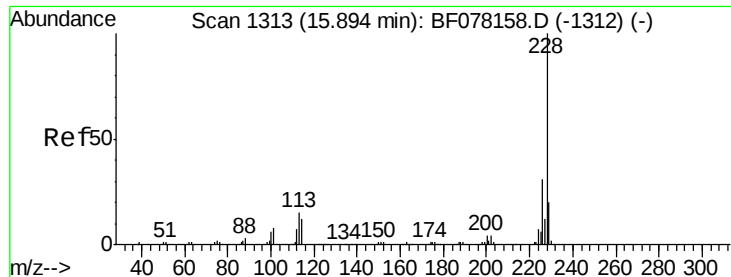


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

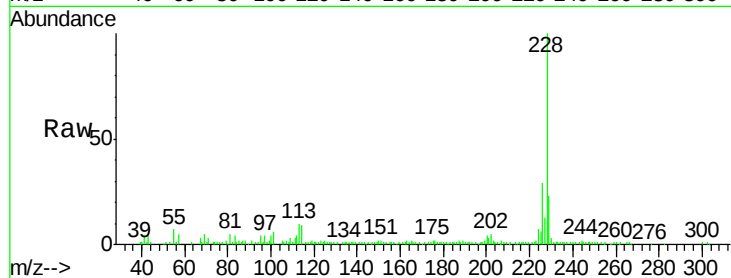




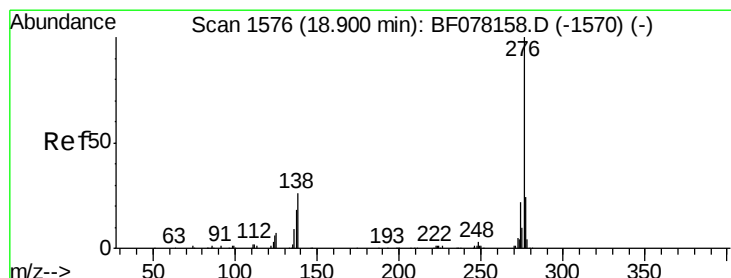
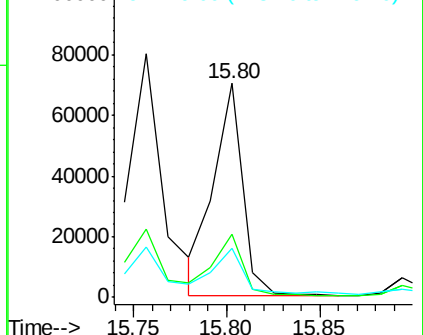
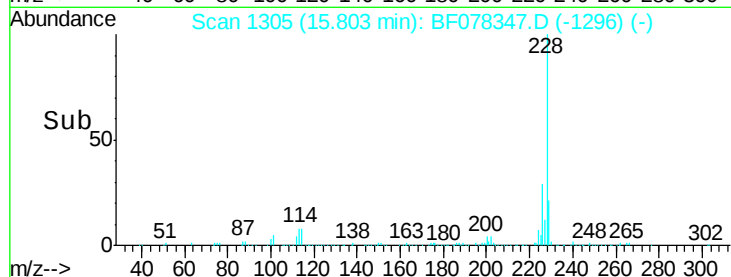
#82  
Chrysene  
Concen: 7.62 ng  
RT: 15.80 min Scan# 1305  
Delta R.T. -0.00 min  
Lab File: BF078347.D  
Acq: 8 Apr 2015 21:31

Instrument :  
BNA\_F  
ClientSampleId :  
SB-2S

Tot Ion:228 Resp: 75304  
Ion Ratio Lower Upper  
228 100  
226 29.5 24.2 36.4  
229 22.8 15.8 23.8

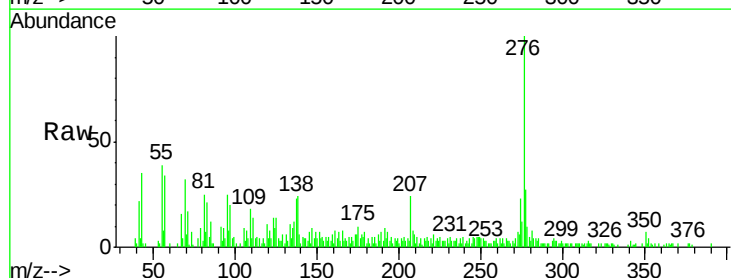


Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E

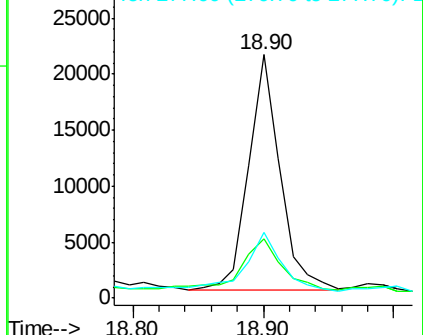
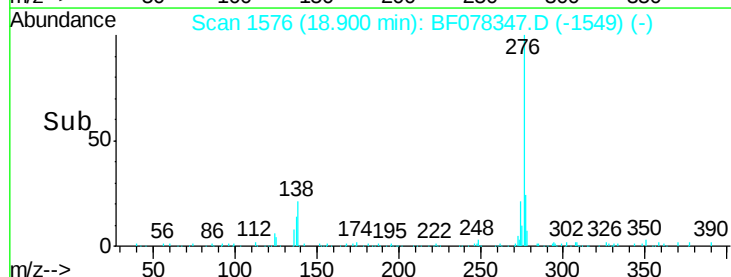


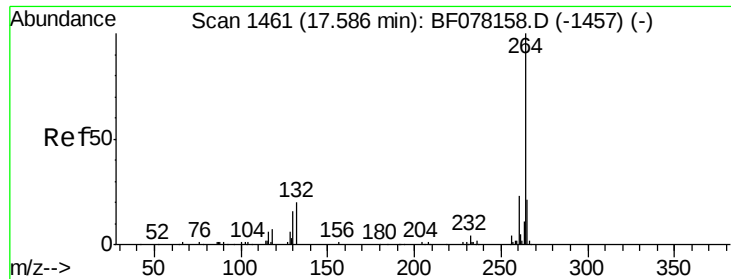
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 3.18 ng  
RT: 18.90 min Scan# 1576  
Delta R.T. 0.01 min  
Lab File: BF078347.D  
Acq: 8 Apr 2015 21:31

Tgt Ion:276 Resp: 35633  
Ion Ratio Lower Upper  
276 100  
138 28.1 16.9 25.3#  
277 29.9 15.8 23.6#



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E





#86

Pervlene-d12

Concen: 20.00 ng

RT: 17.59 min Scan# 1461

Delta R.T. 0.01 min

Lab File: BF078347.D

Acq: 8 Apr 2015 21:31

Instrument :

BNA\_F

ClientSampleId :

SB-2S

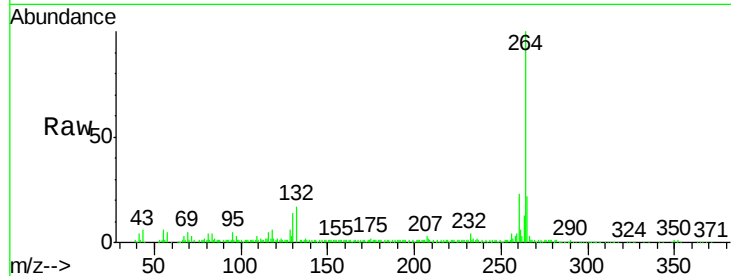
Tot Ion:264 Resp: 168234

Ion Ratio Lower Upper

264 100

260 23.3 18.6 27.8

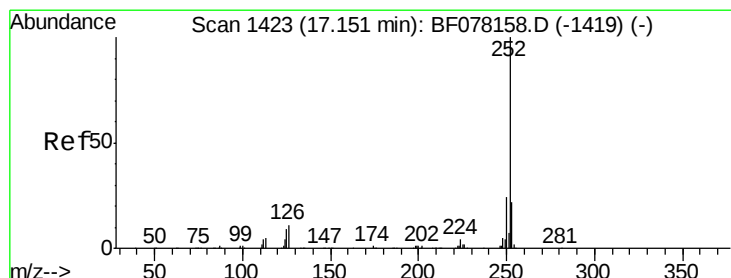
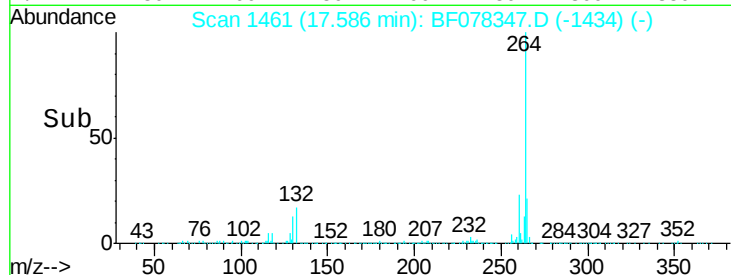
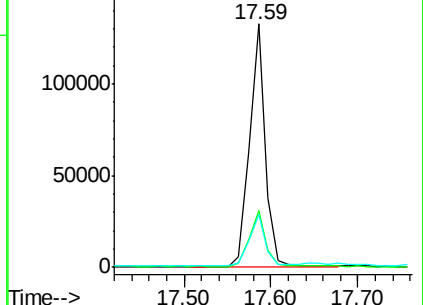
265 21.9 17.0 25.6



Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



#87

Benzo(b)fluoranthene

Concen: 7.80 ng m

RT: 17.12 min Scan# 1420

Delta R.T. 0.01 min

Lab File: BF078347.D

Acq: 8 Apr 2015 21:31

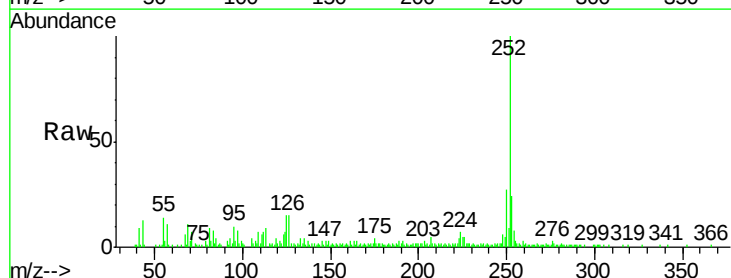
Tgt Ion:252 Resp: 81140

Ion Ratio Lower Upper

252 100

253 23.7 17.2 25.8

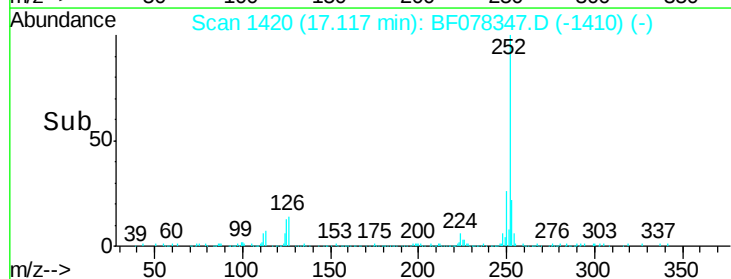
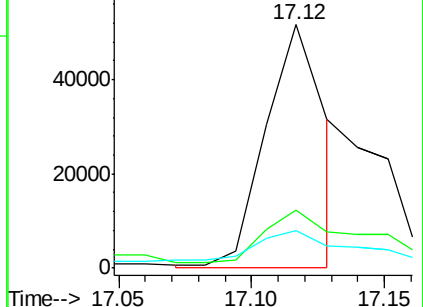
125 15.3 7.0 10.4#

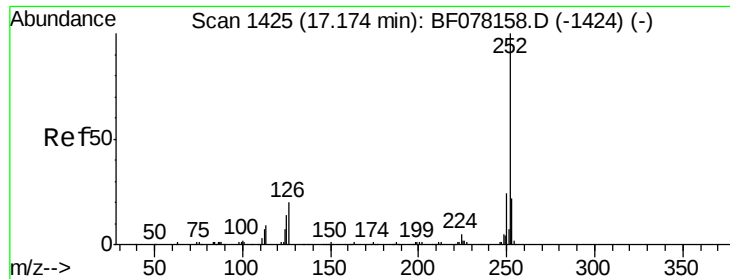


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

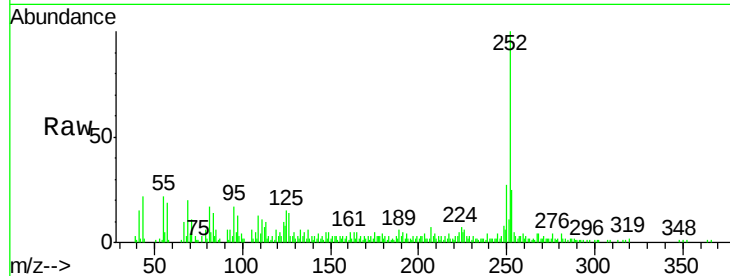




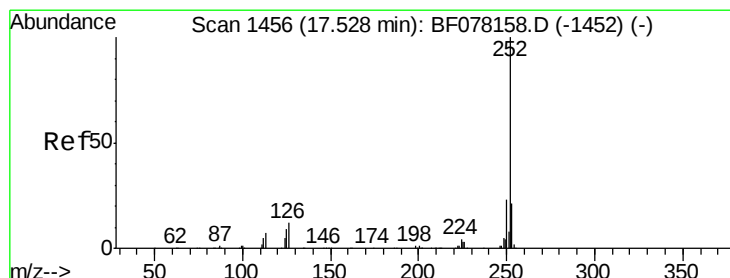
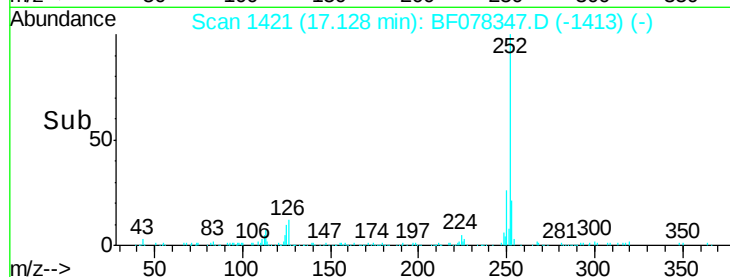
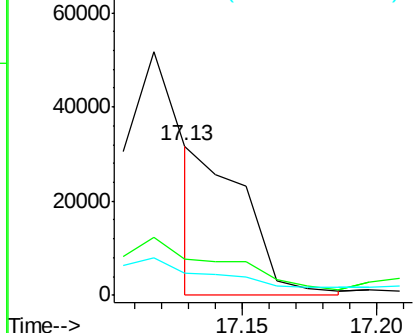
#88  
Benzo(k)fluoranthene  
Concen: 4.06 ng m  
RT: 17.13 min Scan# 1421  
Delta R.T. -0.01 min  
Lab File: BF078347.D  
Acq: 8 Apr 2015 21:31

Instrument :  
BNA\_F  
ClientSampleId :  
SB-2S

Tot Ion:252 Resp: 37482  
Ion Ratio Lower Upper  
252 100  
253 24.5 17.5 26.3  
125 14.7 11.6 17.4

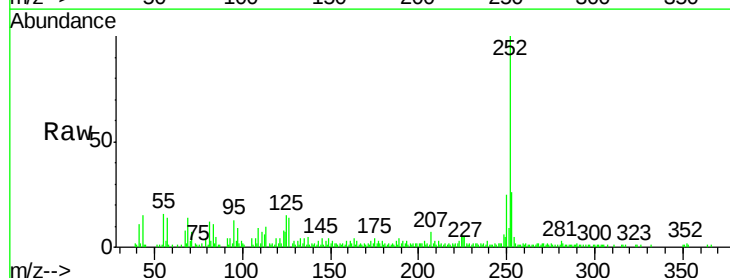


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

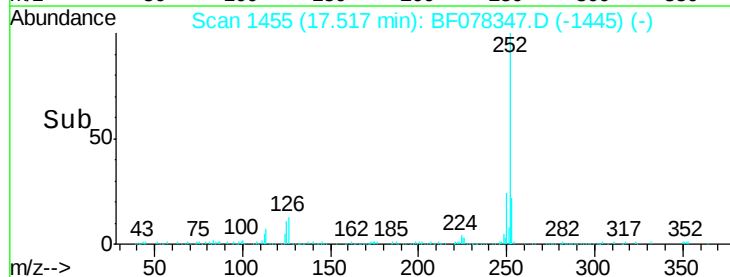
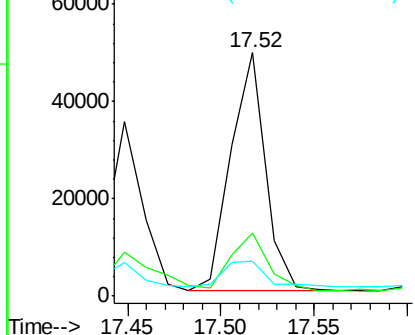


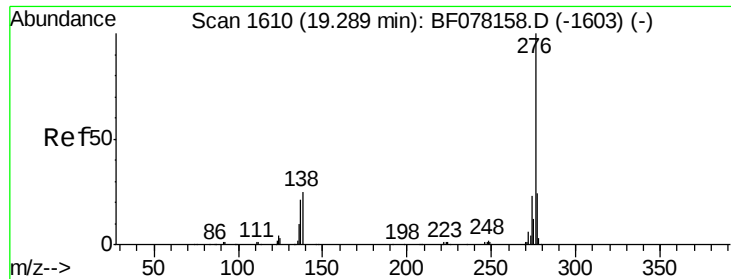
#89  
Benzo(a)pyrene  
Concen: 7.03 ng  
RT: 17.52 min Scan# 1455  
Delta R.T. 0.01 min  
Lab File: BF078347.D  
Acq: 8 Apr 2015 21:31

Tgt Ion:252 Resp: 63803  
Ion Ratio Lower Upper  
252 100  
253 25.7 16.8 25.2#  
125 14.6 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

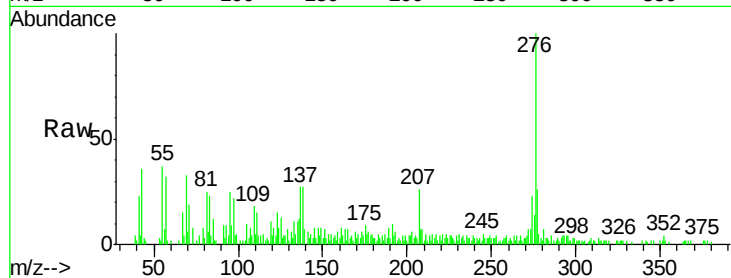




#91  
 Benzo(a,h,i)perylene  
 Concen: 3.97 ng  
 RT: 19.27 min Scan# 1608  
 Delta R.T. 0.01 min  
 Lab File: BF078347.D  
 Acq: 8 Apr 2015 21:31

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-2S

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 25.9  | 19.0  | 28.4  |
| 138     | 26.6  | 19.9  | 29.9  |



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

