

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040815\  
 Data File : BF078352.D  
 Acq On : 8 Apr 2015 23:53  
 Operator : TP/IZ  
 Sample : G1794-02 10X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DBOX

Quant Time: Apr 09 12:32:01 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

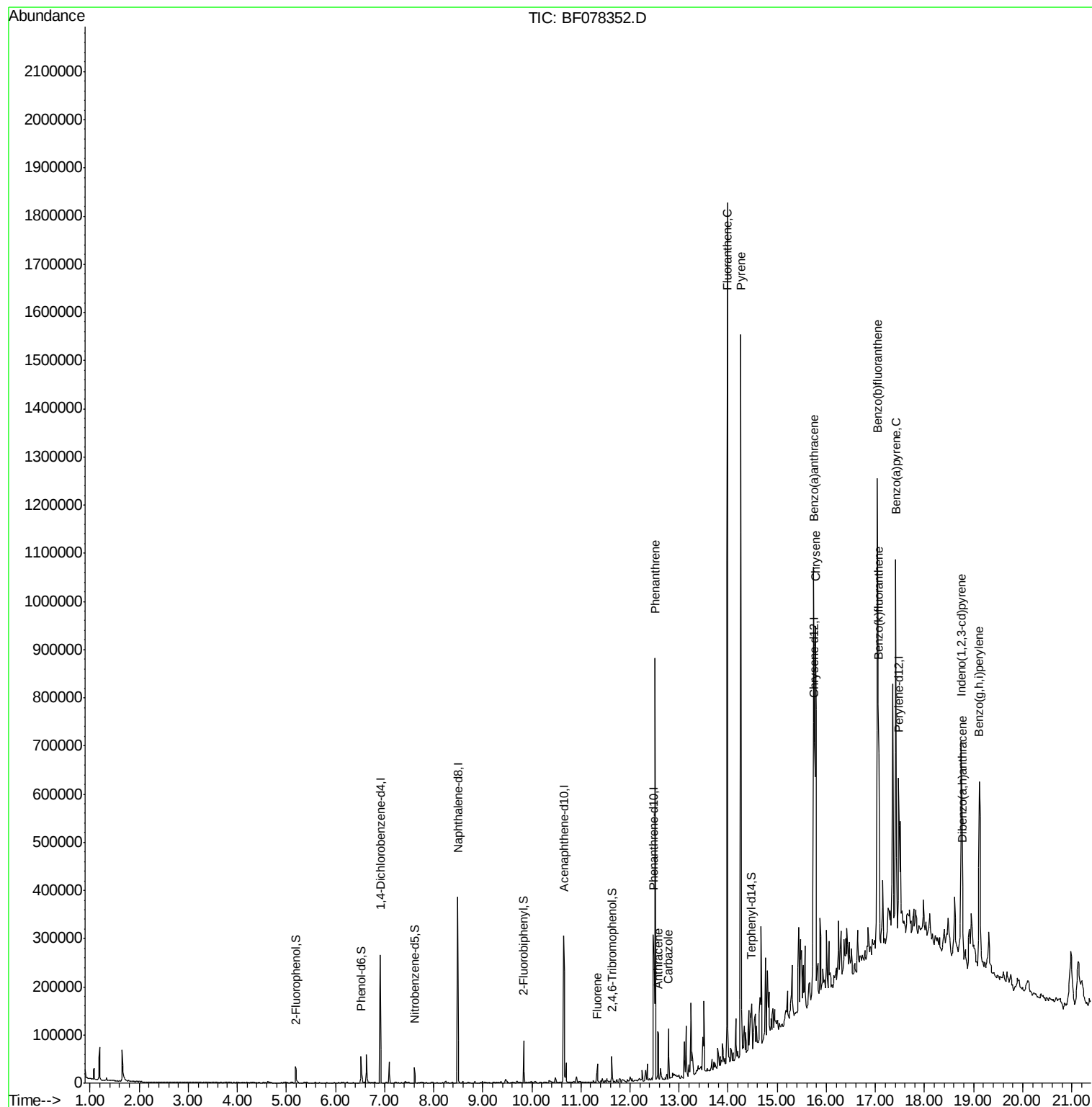
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.91  | 152  | 42248    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.49  | 136  | 173133   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10        | 10.65 | 164  | 82806    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10        | 12.48 | 188  | 161651   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12            | 15.76 | 240  | 176105   | 20.00 | ng    | -0.01    |
| 86) Perylene-d12            | 17.47 | 264  | 170491   | 20.00 | ng    | -0.10    |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.20  | 112  | 16005    | 6.25  | ng    | 0.02     |
| 7) Phenol-d6                | 6.52  | 99   | 23478    | 7.31  | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 7.61  | 82   | 12946    | 4.53  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 11.63 | 330  | 5819     | 8.47  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 9.84  | 172  | 31074    | 5.36  | ng    | 0.00     |
| 78) Terphenyl-d14           | 14.48 | 244  | 35478    | 4.55  | ng    | 0.00     |
| Target Compounds            |       |      |          |       |       | Qvalue   |
| 57) Fluorene                | 11.33 | 166  | 13421    | 2.24  | ng    | 95       |
| 70) Phenanthrene            | 12.51 | 178  | 341750   | 36.55 | ng    | 100      |
| 71) Anthracene              | 12.58 | 178  | 61055    | 6.63  | ng    | 99       |
| 72) Carbazole               | 12.79 | 167  | 48284    | 5.59  | ng    | 99       |
| 74) Fluoranthene            | 13.99 | 202  | 897604   | 91.02 | ng    | 93       |
| 77) Pyrene                  | 14.26 | 202  | 721225   | 65.24 | ng    | 97       |
| 80) Benzo(a)anthracene      | 15.75 | 228  | 388403   | 37.07 | ng    | 97       |
| 82) Chrysene                | 15.78 | 228  | 443653   | 45.07 | ng    | 97       |
| 85) Indeno(1,2,3-cd)pyrene  | 18.75 | 276  | 311420m  | 27.88 | ng    |          |
| 87) Benzo(b)fluoranthene    | 17.04 | 252  | 687212   | 65.22 | ng    | # 94     |
| 88) Benzo(k)fluoranthene    | 17.06 | 252  | 140331m  | 14.99 | ng    |          |
| 89) Benzo(a)pyrene          | 17.41 | 252  | 368448   | 40.07 | ng    | # 95     |
| 90) Dibenzo(a,h)anthracene  | 18.77 | 278  | 62348m   | 6.77  | ng    |          |
| 91) Benzo(g,h,i)perylene    | 19.12 | 276  | 299694   | 32.47 | ng    | 98       |

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

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040815\  
Data File : BF078352.D  
Acq On : 8 Apr 2015 23:53  
Operator : TP/IZ  
Sample : G1794-02 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
DBOX

Quant Time: Apr 09 12:32:01 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



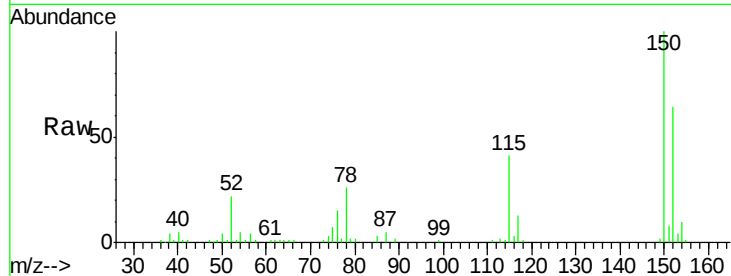


#1

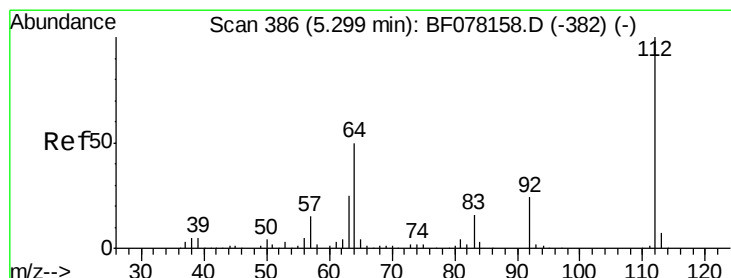
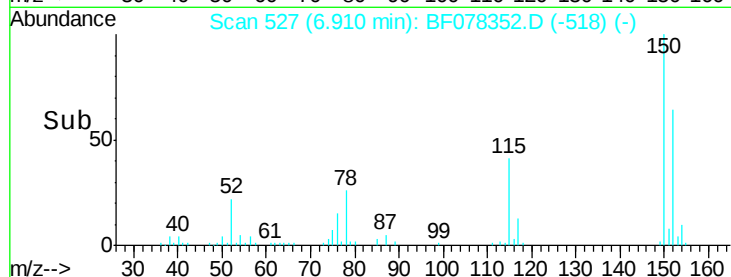
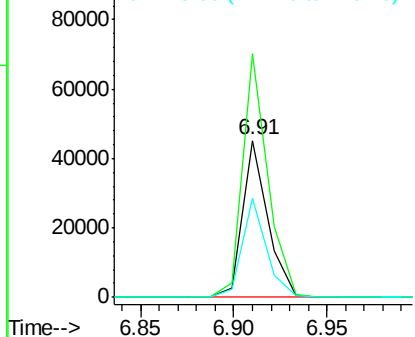
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.91 min Scan# 527  
Delta R.T. -0.00 min  
Lab File: BF078352.D  
Acq: 8 Apr 2015 23:53

Instrument :  
BNA\_F  
ClientSampleId :  
DBOX

Tot Ion:152 Resp: 42248  
Ion Ratio Lower Upper  
152 100  
150 155.3 125.9 188.9  
115 63.1 52.7 79.1



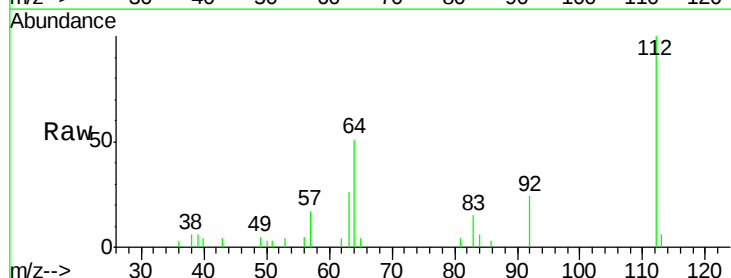
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



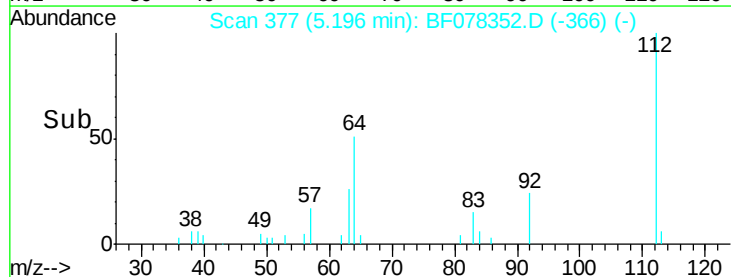
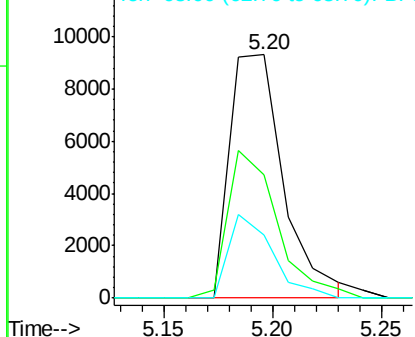
#5

2-Fluorophenol  
Concen: 6.25 ng  
RT: 5.20 min Scan# 377  
Delta R.T. 0.02 min  
Lab File: BF078352.D  
Acq: 8 Apr 2015 23:53

Tgt Ion:112 Resp: 16005  
Ion Ratio Lower Upper  
112 100  
64 50.5 39.9 59.9  
63 25.9 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: 7.31 ng

RT: 6.52 min Scan# 493

Delta R.T. 0.01 min

Lab File: BF078352.D

Acq: 8 Apr 2015 23:53

Instrument :

BNA\_F

ClientSampleId :

DBOX

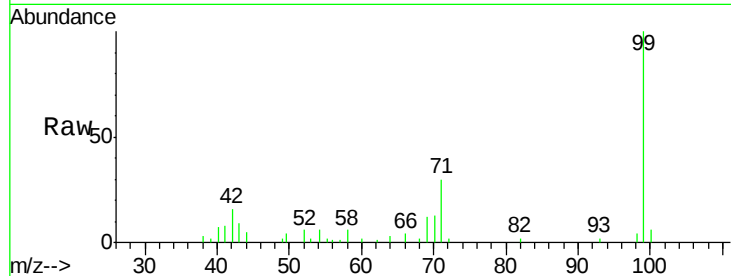
Tot Ion: 99 Resp: 23478

Ion Ratio Lower Upper

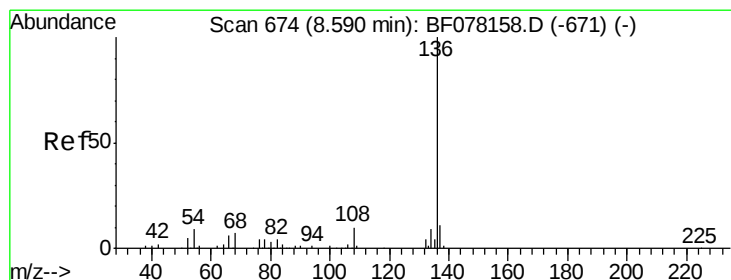
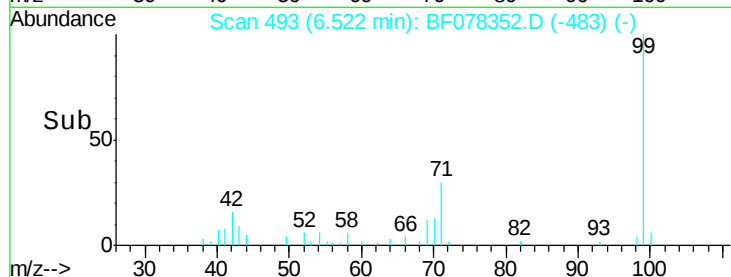
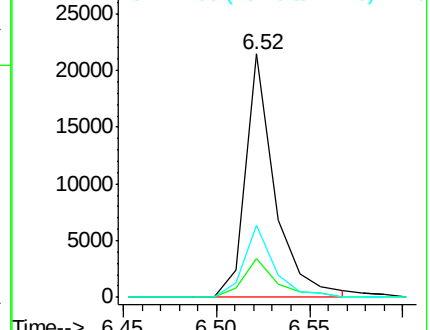
99 100

42 16.1 14.8 22.2

71 29.6 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: BF078352.D

Acq: 8 Apr 2015 23:53

Tgt Ion: 136 Resp: 173133

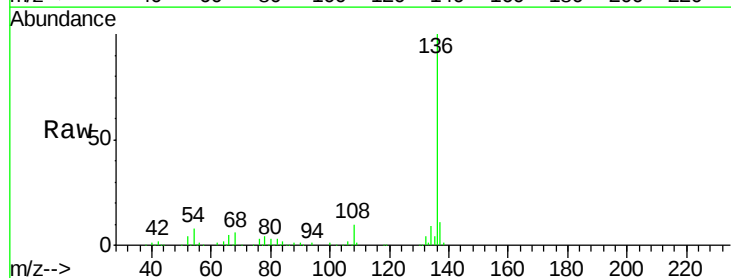
Ion Ratio Lower Upper

136 100

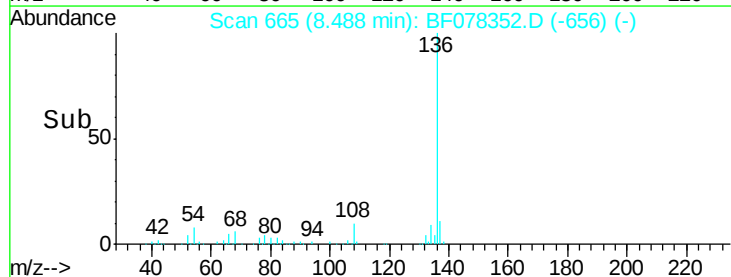
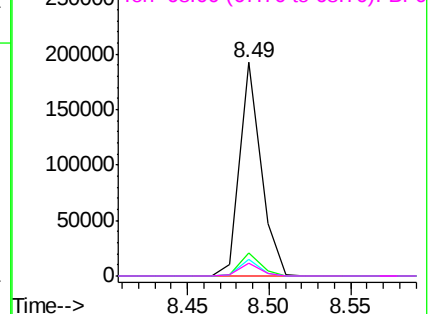
137 11.0 9.0 13.4

54 7.9 7.0 10.6

68 6.0 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

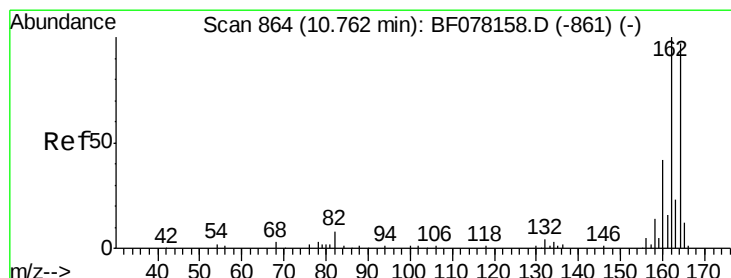
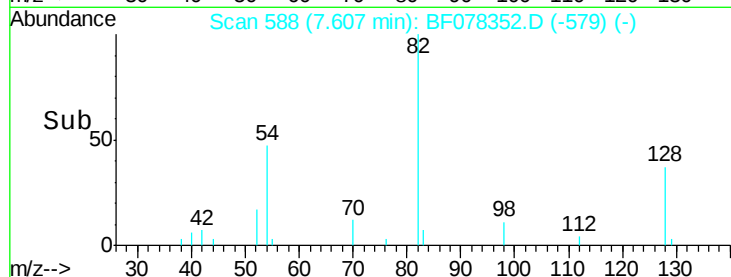
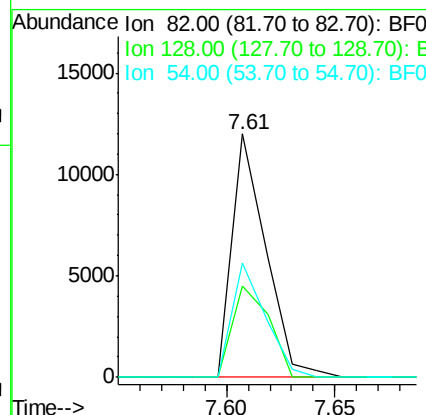
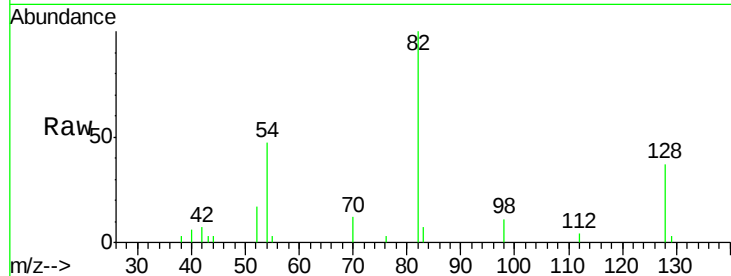




#23  
 Nitrobenzene-d5  
 Concen: 4.53 ng  
 RT: 7.61 min Scan# 588  
 Delta R.T. -0.00 min  
 Lab File: BF078352.D  
 Acq: 8 Apr 2015 23:53

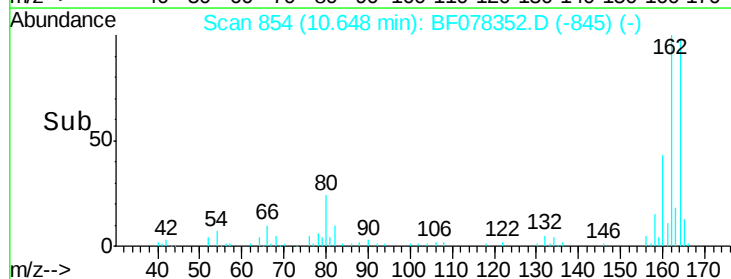
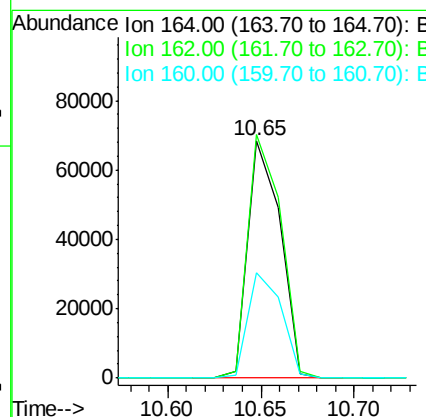
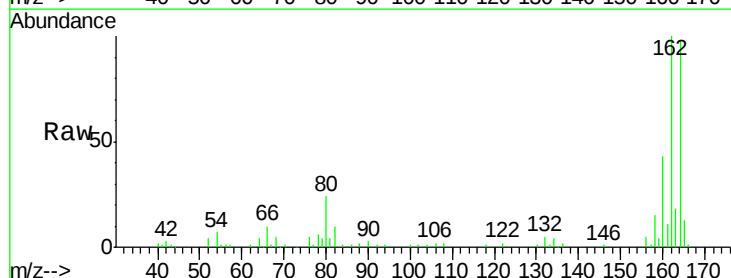
Instrument :  
 BNA\_F  
 ClientSampleId :  
 DBOX

Tot Ion: 82 Resp: 12946  
 Ion Ratio Lower Upper  
 82 100  
 128 37.3 31.8 47.8  
 54 47.1 41.5 62.3



#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 10.65 min Scan# 854  
 Delta R.T. -0.00 min  
 Lab File: BF078352.D  
 Acq: 8 Apr 2015 23:53

Tgt Ion:164 Resp: 82806  
 Ion Ratio Lower Upper  
 164 100  
 162 102.5 82.2 123.2  
 160 44.5 34.7 52.1

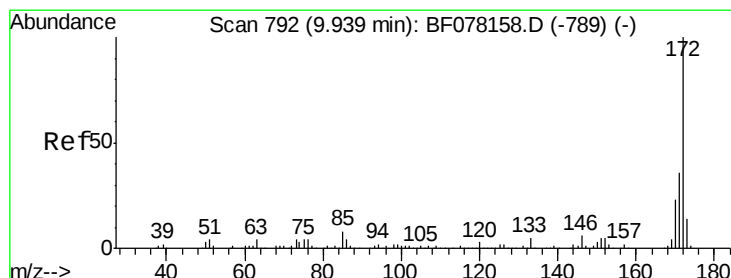
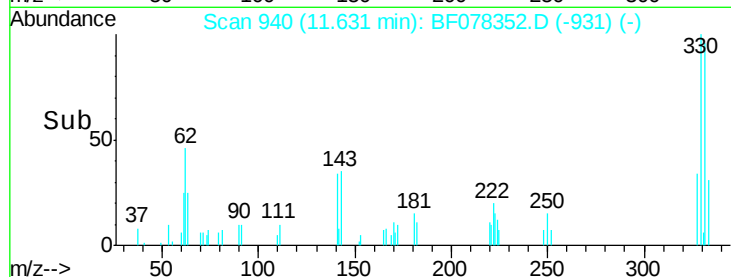
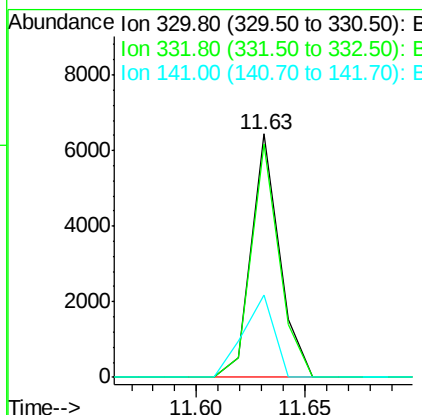
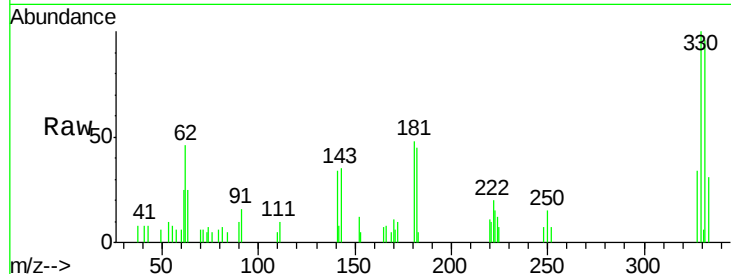




#41  
 2,4,6-Tribromophenol  
 Concen: 8.47 ng  
 RT: 11.63 min Scan# 940  
 Delta R.T. -0.00 min  
 Lab File: BF078352.D  
 Acq: 8 Apr 2015 23:53

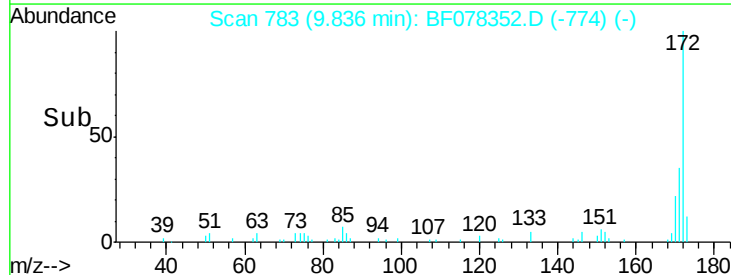
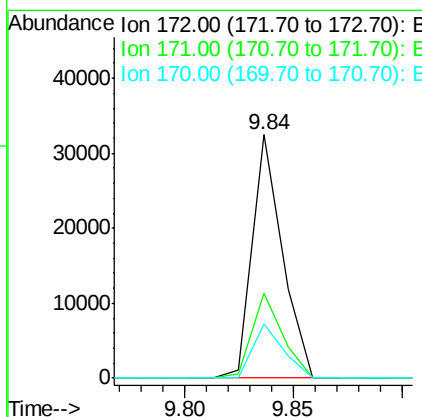
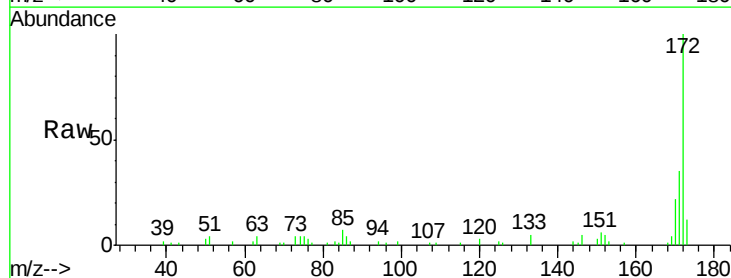
Instrument :  
 BNA\_F  
 ClientSampleId :  
 DBOX

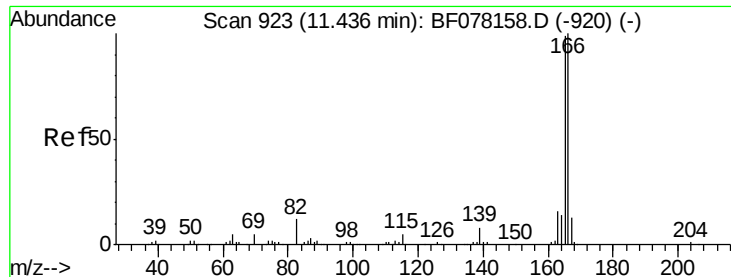
Tot Ion:330 Resp: 5819  
 Ion Ratio Lower Upper  
 330 100  
 332 95.0 78.6 117.8  
 141 36.9 31.2 46.8



#44  
 2-Fluorobiphenyl  
 Concen: 5.36 ng  
 RT: 9.84 min Scan# 783  
 Delta R.T. -0.00 min  
 Lab File: BF078352.D  
 Acq: 8 Apr 2015 23:53

Tgt Ion:172 Resp: 31074  
 Ion Ratio Lower Upper  
 172 100  
 171 34.7 28.6 42.8  
 170 22.2 18.5 27.7

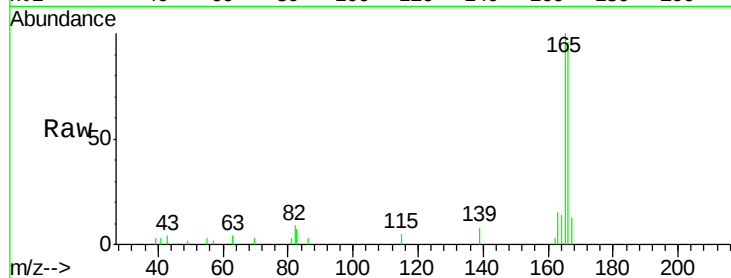




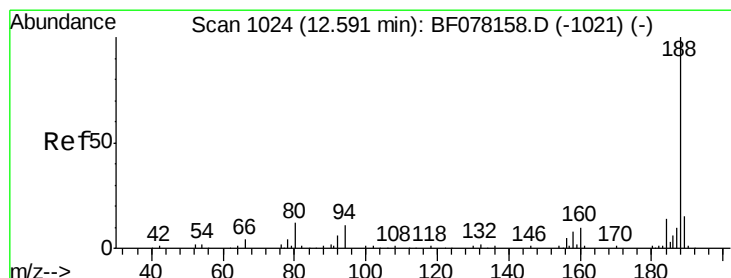
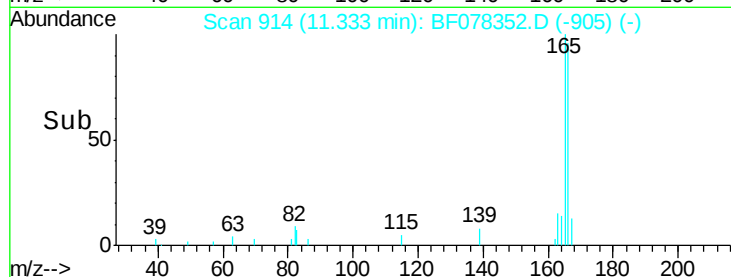
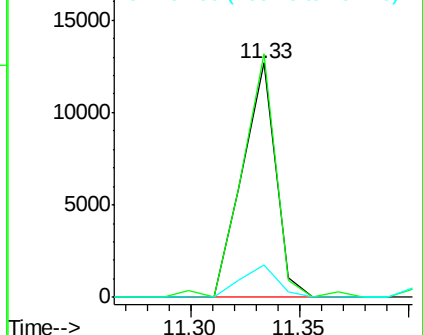
#57  
 Fluorene  
 Concen: 2.24 ng  
 RT: 11.33 min Scan# 914  
 Delta R.T. -0.00 min  
 Lab File: BF078352.D  
 Acq: 8 Apr 2015 23:53

Instrument :  
 BNA\_F  
 ClientSampleId :  
 DBOX

Tot Ion:166 Resp: 13421  
 Ion Ratio Lower Upper  
 166 100  
 165 104.0 78.9 118.3  
 167 13.6 10.7 16.1

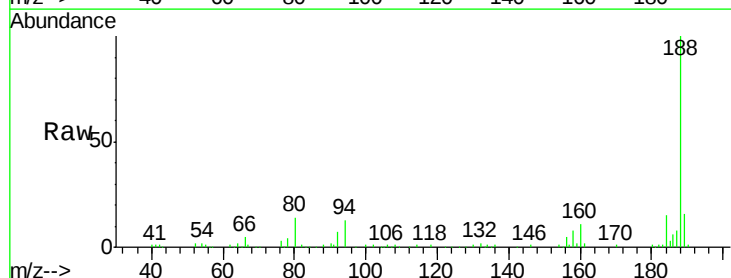


Abundance Ion 166.00 (165.70 to 166.70): E  
 Ion 165.00 (164.70 to 165.70): E  
 Ion 167.00 (166.70 to 167.70): E

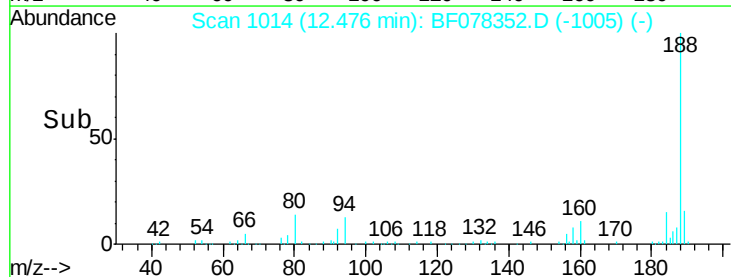
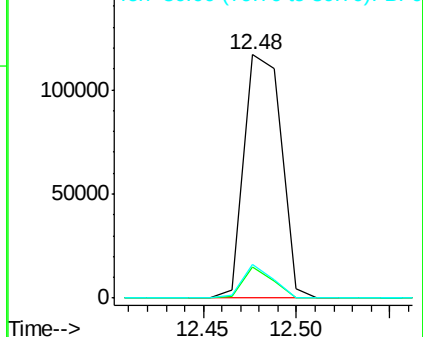


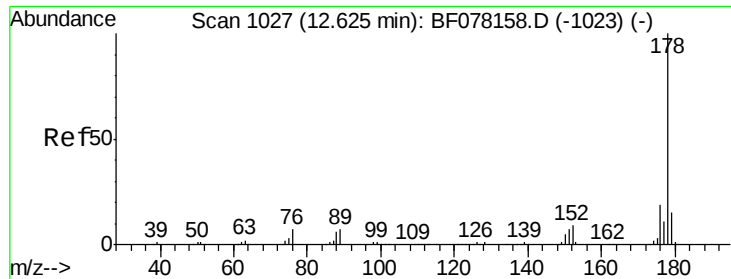
#63  
 Phenanthrene-d10  
 Concen: 20.00 ng  
 RT: 12.48 min Scan# 1014  
 Delta R.T. -0.00 min  
 Lab File: BF078352.D  
 Acq: 8 Apr 2015 23:53

Tgt Ion:188 Resp: 161651  
 Ion Ratio Lower Upper  
 188 100  
 94 12.6 9.0 13.4  
 80 14.1 9.5 14.3



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

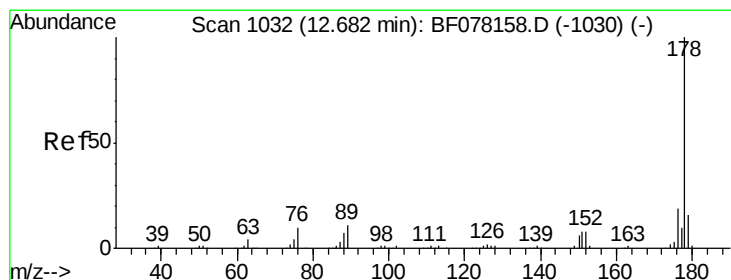
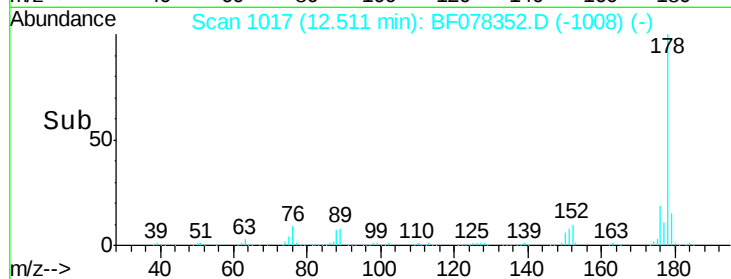
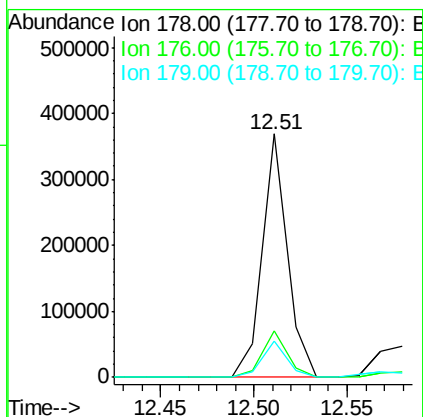
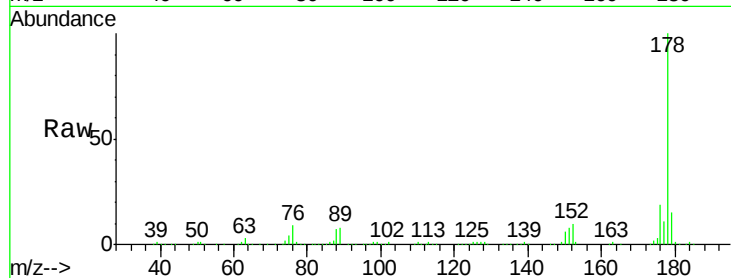




#70  
Phenanthrene  
Concen: 36.55 ng  
RT: 12.51 min Scan# 1017  
Delta R.T. -0.00 min  
Lab File: BF078352.D  
Acq: 8 Apr 2015 23:53

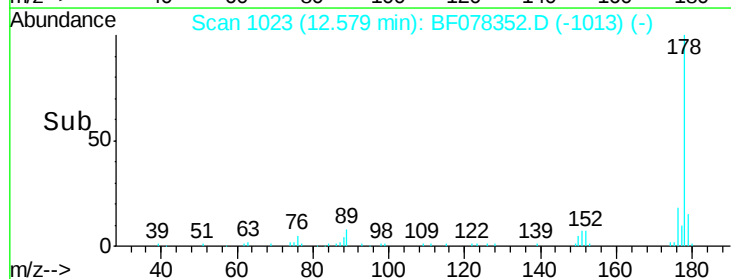
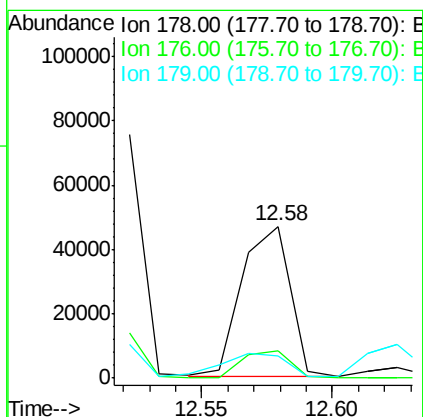
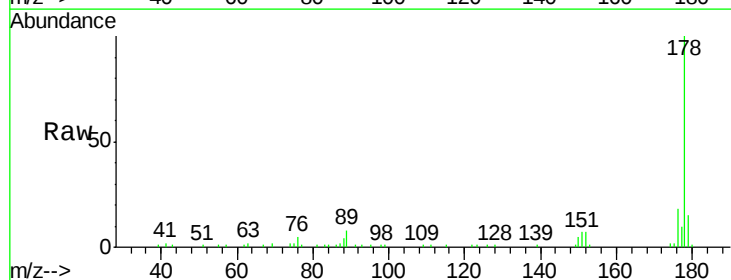
Instrument :  
BNA\_F  
ClientSampleId :  
DBOX

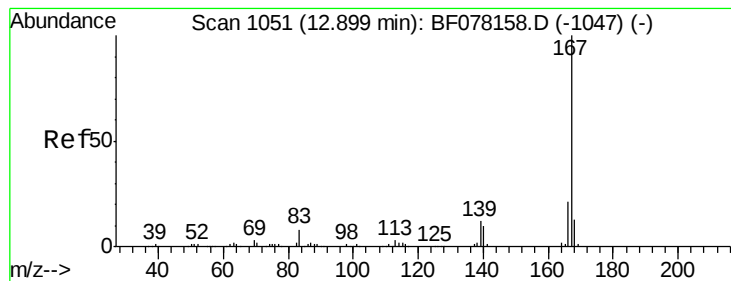
Tot Ion:178 Resp: 341750  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.4 23.0  
179 15.1 12.2 18.2



#71  
Anthracene  
Concen: 6.63 ng  
RT: 12.58 min Scan# 1023  
Delta R.T. 0.01 min  
Lab File: BF078352.D  
Acq: 8 Apr 2015 23:53

Tgt Ion:178 Resp: 61055  
Ion Ratio Lower Upper  
178 100  
176 18.0 14.8 22.2  
179 14.8 12.4 18.6





#72

Carbazole

Concen: 5.59 ng

RT: 12.79 min Scan# 1041

Delta R.T. -0.00 min

Lab File: BF078352.D

Acq: 8 Apr 2015 23:53

Instrument :

BNA\_F

ClientSampleId :

DBOX

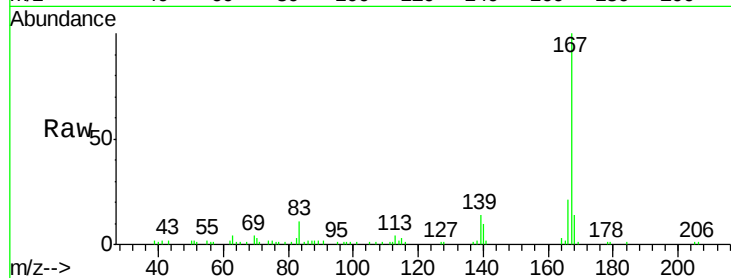
Tot Ion:167 Resp: 48284

Ion Ratio Lower Upper

167 100

166 20.9 16.8 25.2

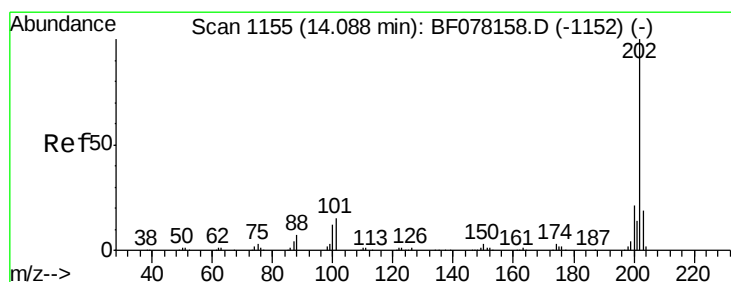
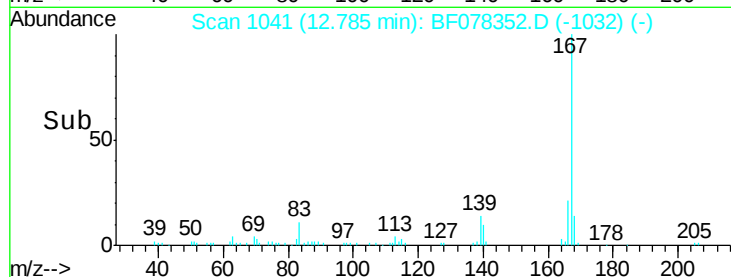
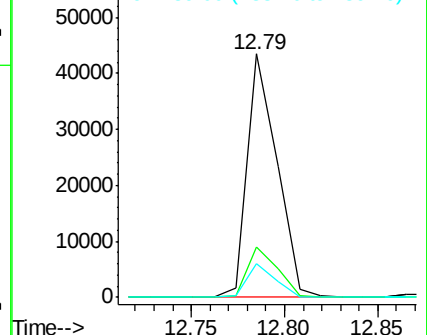
139 13.9 10.0 15.0



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: 91.02 ng

RT: 13.99 min Scan# 1146

Delta R.T. 0.01 min

Lab File: BF078352.D

Acq: 8 Apr 2015 23:53

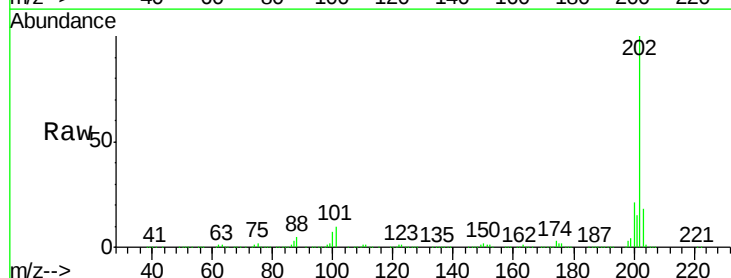
Tgt Ion:202 Resp: 897604

Ion Ratio Lower Upper

202 100

101 9.8 0.0 35.2

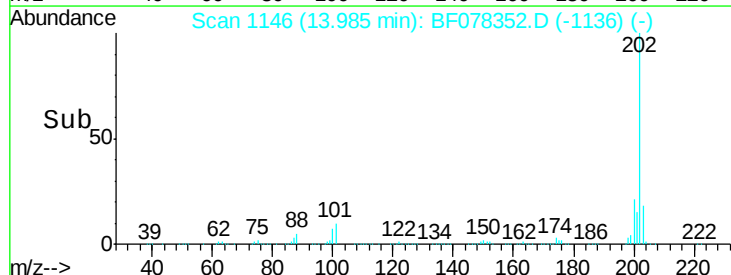
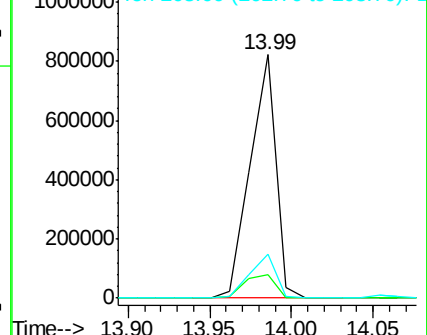
203 17.9 0.0 38.5

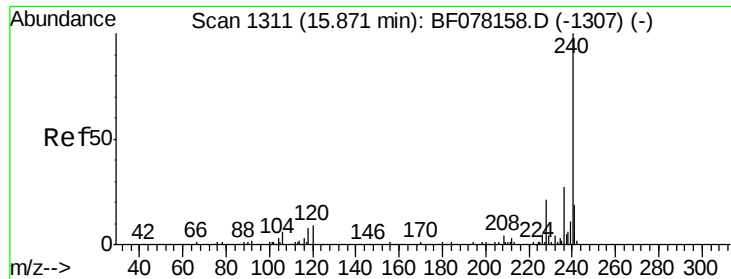


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

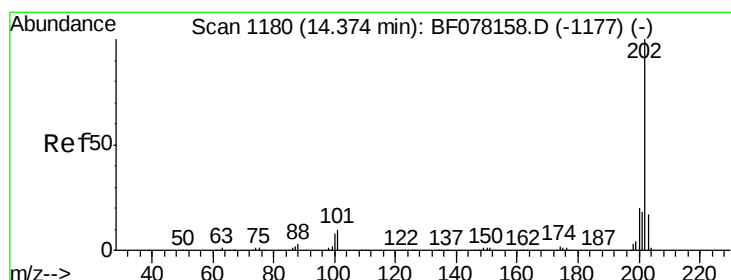
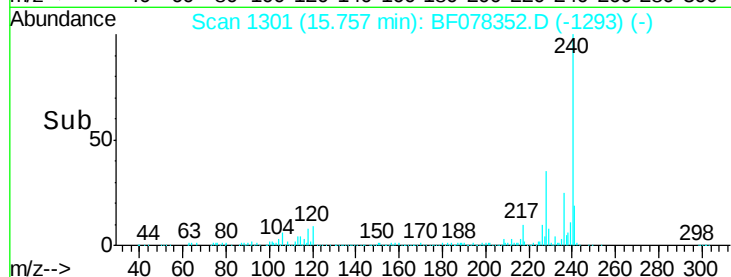
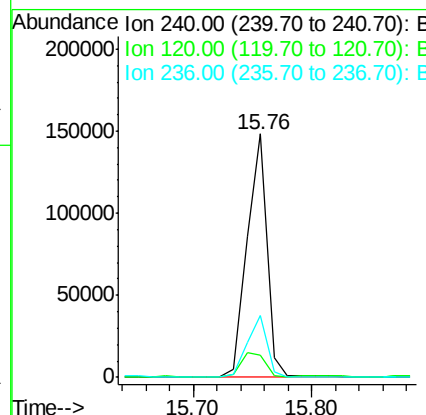
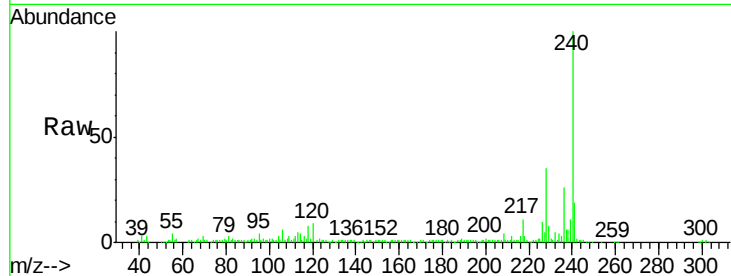




#75  
Chrysene-d12  
Concen: 20.00 ng  
RT: 15.76 min Scan# 1301  
Delta R.T. -0.01 min  
Lab File: BF078352.D  
Acq: 8 Apr 2015 23:53

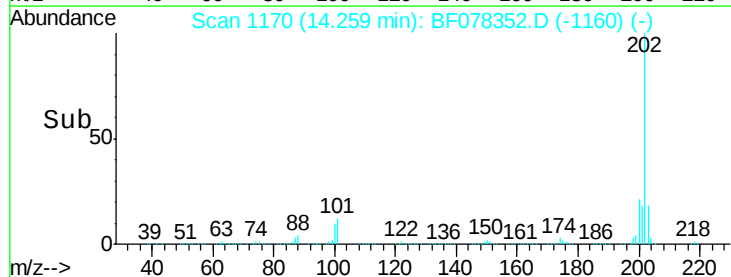
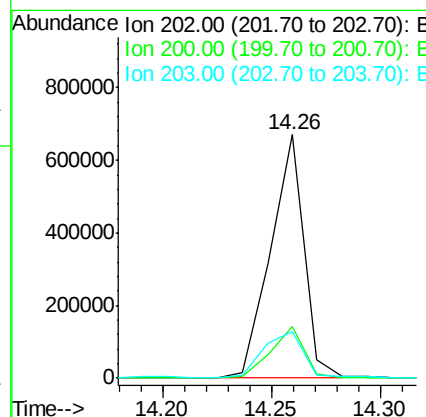
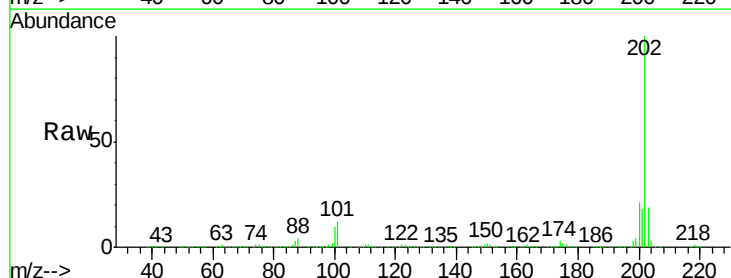
Instrument :  
BNA\_F  
ClientSampleId :  
DBOX

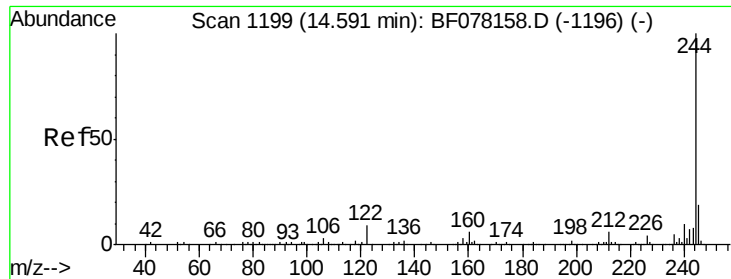
Tot Ion:240 Resp: 176105  
Ion Ratio Lower Upper  
240 100  
120 9.2 7.1 10.7  
236 25.6 21.4 32.2



#77  
Pyrene  
Concen: 65.24 ng  
RT: 14.26 min Scan# 1170  
Delta R.T. 0.01 min  
Lab File: BF078352.D  
Acq: 8 Apr 2015 23:53

Tgt Ion:202 Resp: 721225  
Ion Ratio Lower Upper  
202 100  
200 21.3 16.3 24.5  
203 18.9 13.8 20.6





#78

Terphenyl-d14

Concen: 4.55 ng

RT: 14.48 min Scan# 1189

Delta R.T. -0.00 min

Lab File: BF078352.D

Acq: 8 Apr 2015 23:53

Instrument :

BNA\_F

ClientSampleId :

DBOX

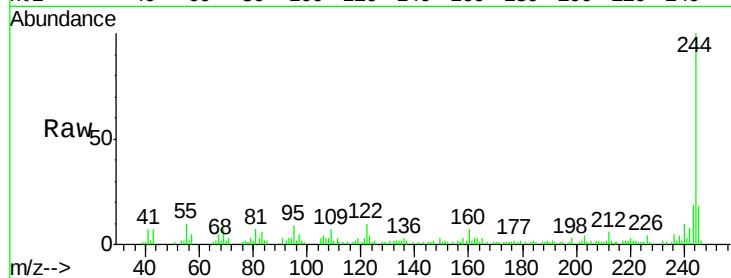
Tot Ion:244 Resp: 35478

Ion Ratio Lower Upper

244 100

212 6.1 5.0 7.4

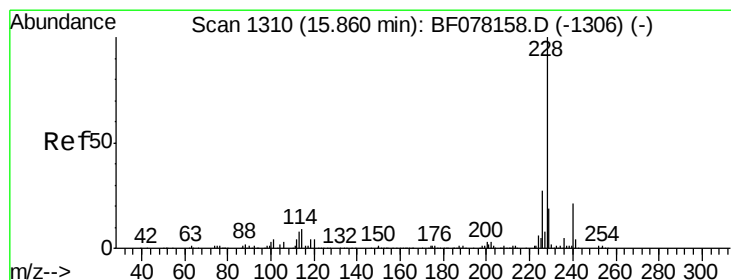
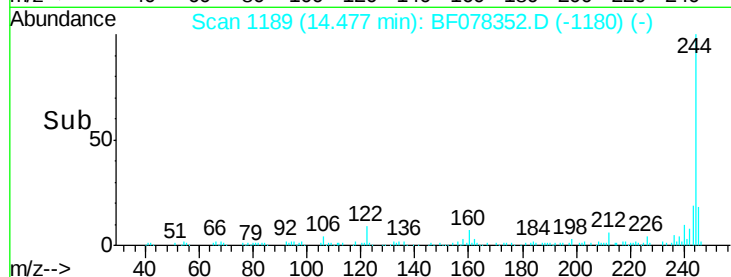
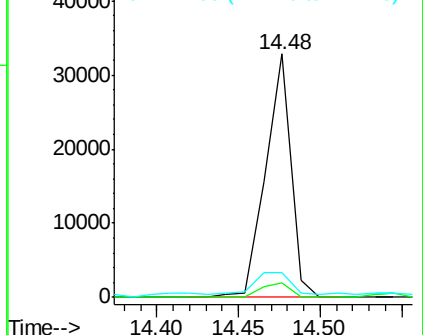
122 10.2 7.1 10.7



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: 37.07 ng

RT: 15.75 min Scan# 1300

Delta R.T. -0.01 min

Lab File: BF078352.D

Acq: 8 Apr 2015 23:53

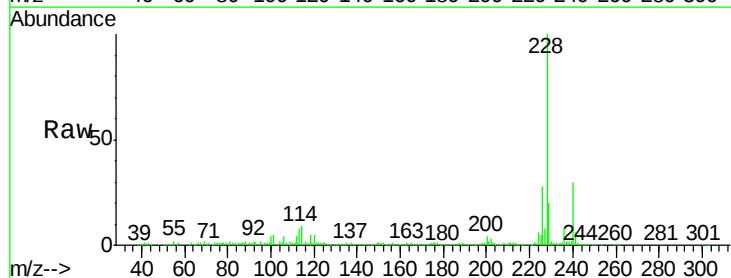
Tgt Ion:228 Resp: 388403

Ion Ratio Lower Upper

228 100

226 28.0 21.3 31.9

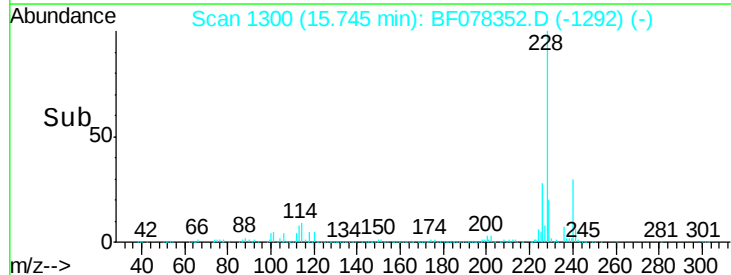
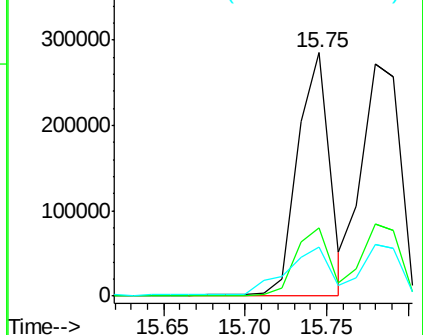
229 20.3 15.4 23.2

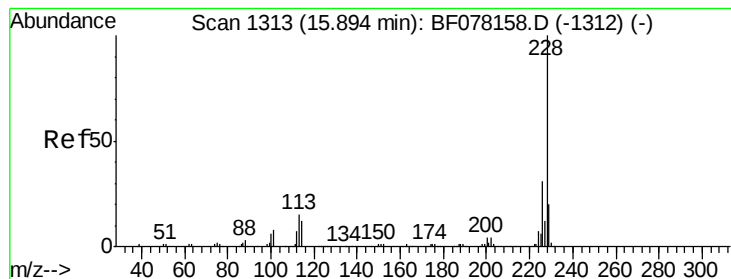


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 45.07 ng

RT: 15.78 min Scan# 1303

Delta R.T. -0.02 min

Lab File: BF078352.D

Acq: 8 Apr 2015 23:53

Instrument :

BNA\_F

ClientSampleId :

DBOX

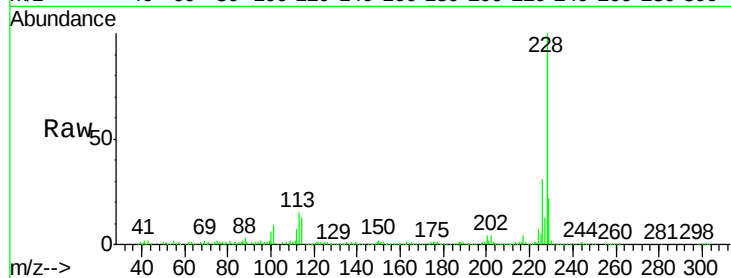
Tot Ion:228 Resp: 443653

Ion Ratio Lower Upper

228 100

226 30.8 24.2 36.4

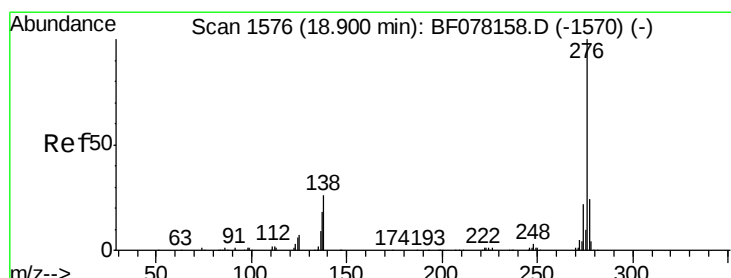
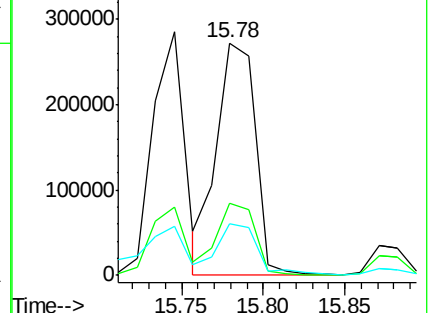
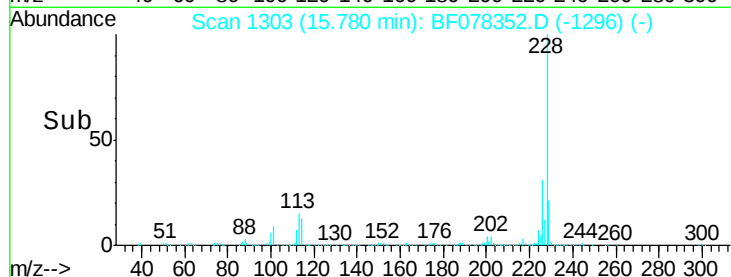
229 22.2 15.8 23.8



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: 27.88 ng m

RT: 18.75 min Scan# 1563

Delta R.T. -0.14 min

Lab File: BF078352.D

Acq: 8 Apr 2015 23:53

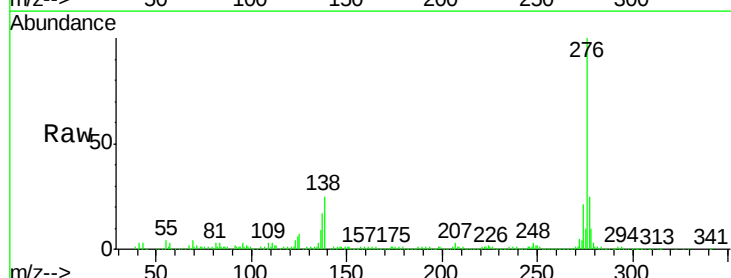
Tgt Ion:276 Resp: 311420

Ion Ratio Lower Upper

276 100

138 2.0 16.9 25.3#

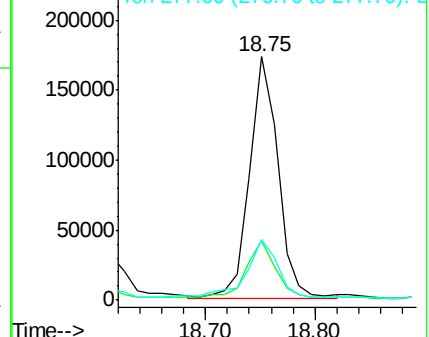
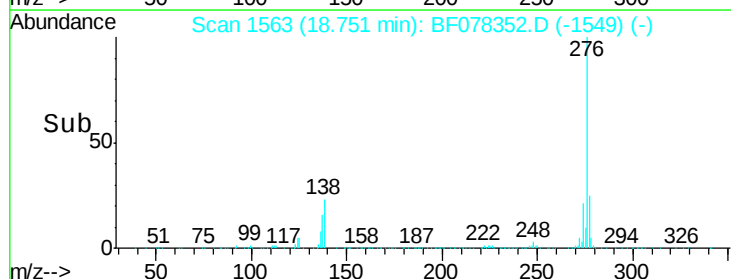
277 1.6 15.8 23.6#

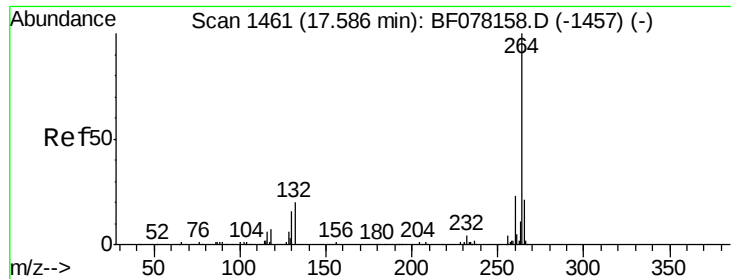


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



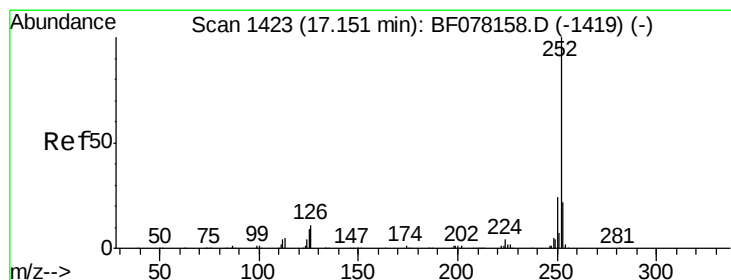
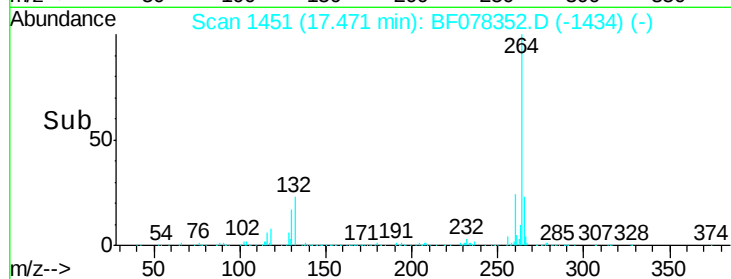
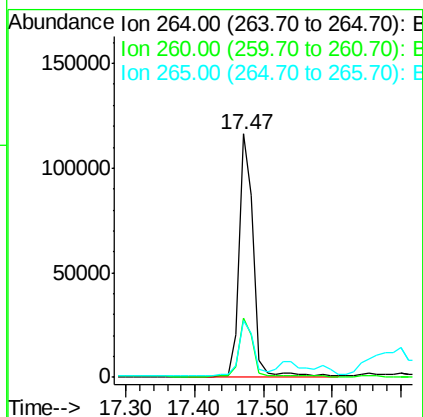
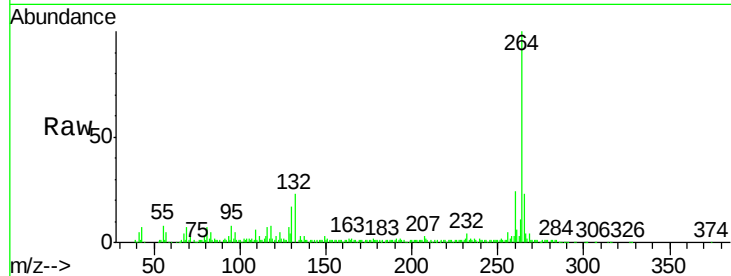


#86  
Pervlene-d12  
Concen: 20.00 ng  
RT: 17.47 min Scan# 1451  
Delta R.T. -0.10 min  
Lab File: BF078352.D  
Acq: 8 Apr 2015 23:53

Instrument :  
BNA\_F  
ClientSampleId :  
DBOX

Tot Ion:264 Resp: 170491  

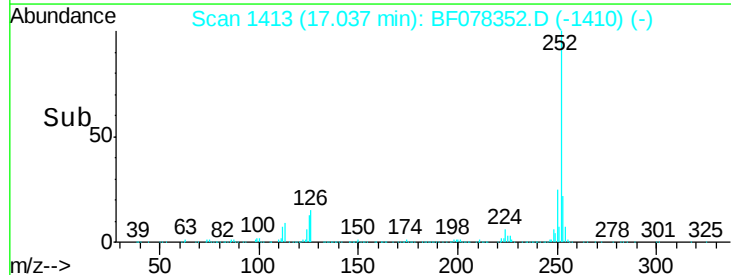
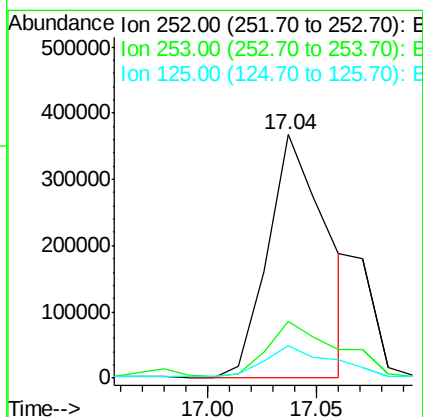
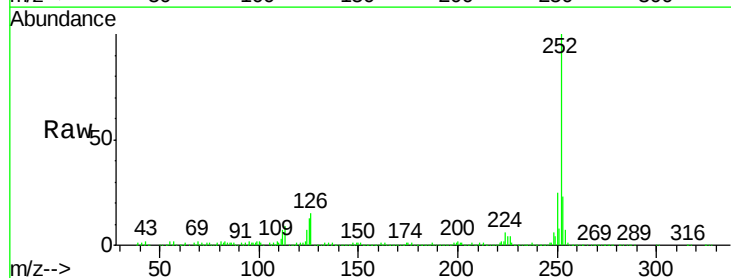
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.4  | 18.6  | 27.8  |
| 265 | 23.4  | 17.0  | 25.6  |

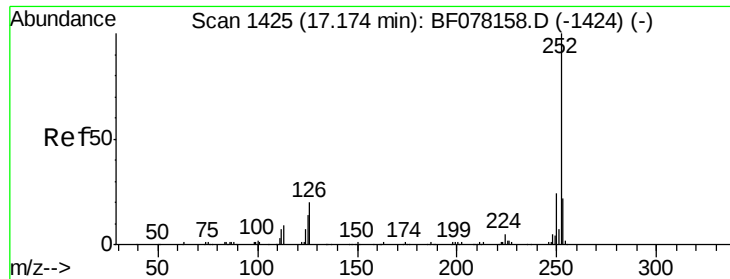


#87  
Benzo(b)fluoranthene  
Concen: 65.22 ng  
RT: 17.04 min Scan# 1413  
Delta R.T. -0.07 min  
Lab File: BF078352.D  
Acq: 8 Apr 2015 23:53

Tgt Ion:252 Resp: 687212  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 23.1  | 17.2  | 25.8  |
| 125 | 13.5  | 7.0   | 10.4# |

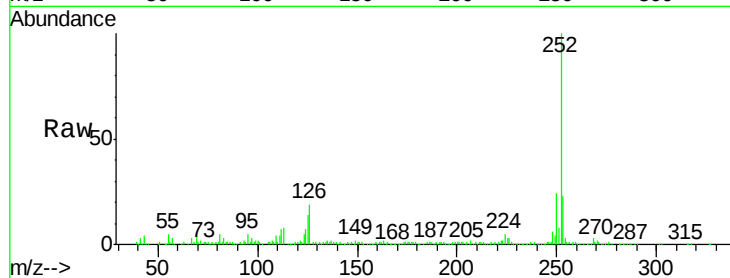




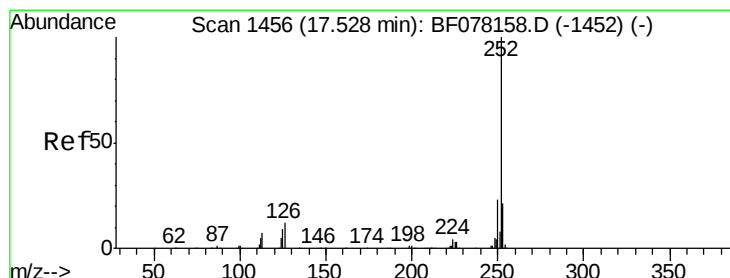
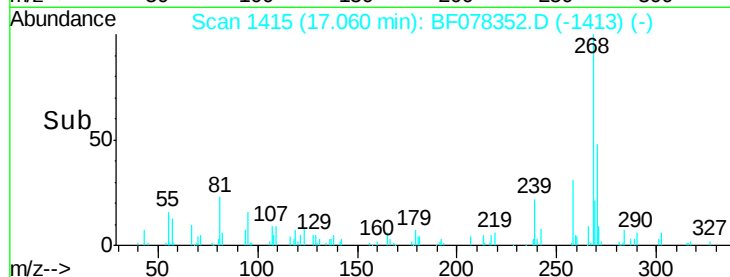
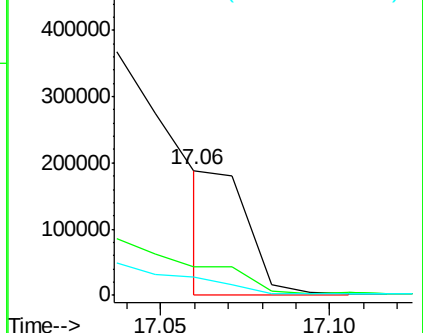
#88  
Benzo(k)fluoranthene  
Concen: 14.99 ng m  
RT: 17.06 min Scan# 1415  
Delta R.T. -0.08 min  
Lab File: BF078352.D  
Acq: 8 Apr 2015 23:53

Instrument :  
BNA\_F  
ClientSampleId :  
DBOX

Tot Ion:252 Resp: 140331  
Ion Ratio Lower Upper  
252 100  
253 22.5 17.5 26.3  
125 14.3 11.6 17.4

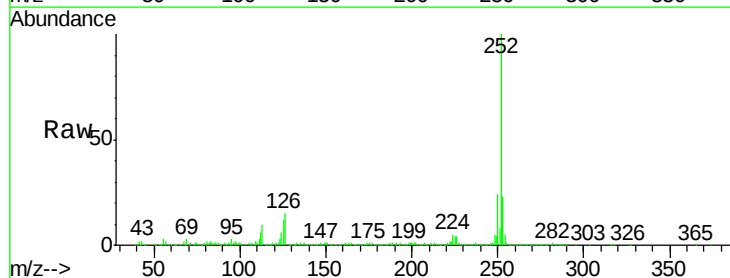


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

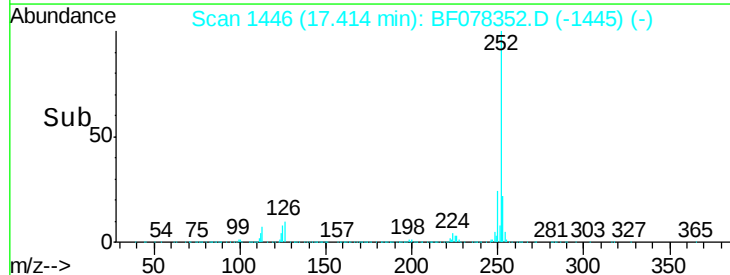
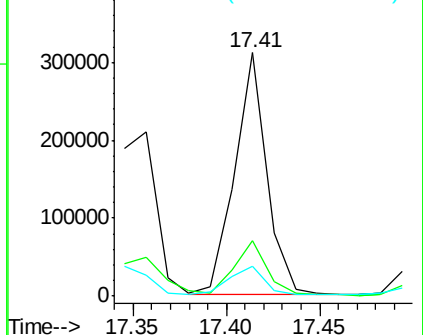


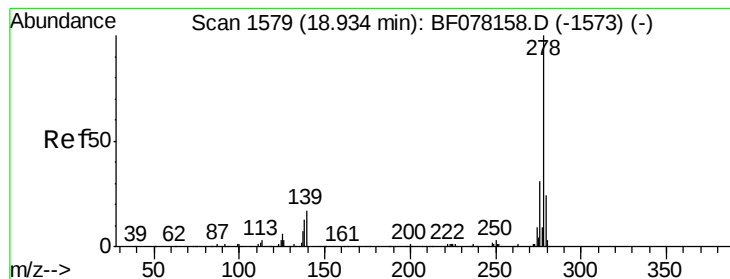
#89  
Benzo(a)pyrene  
Concen: 40.07 ng  
RT: 17.41 min Scan# 1446  
Delta R.T. -0.09 min  
Lab File: BF078352.D  
Acq: 8 Apr 2015 23:53

Tgt Ion:252 Resp: 368448  
Ion Ratio Lower Upper  
252 100  
253 22.8 16.8 25.2  
125 12.4 7.4 11.0#



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





#90

Dibenzo(a,h)anthracene

Concen: 6.77 ng/mL

RT: 18.77 min Scan# 1565

Delta R.T. -0.15 min

Lab File: BF078352.D

Acq: 8 Apr 2015 23:53

Instrument :

BNA\_F

ClientSampleId :

DBOX

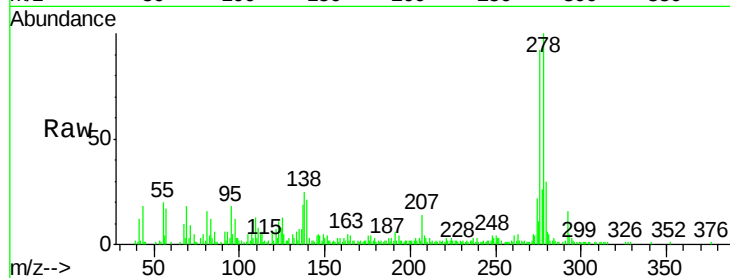
Tot Ion:278 Resp: 62348

Ion Ratio Lower Upper

278 100

139 20.5 13.6 20.4#

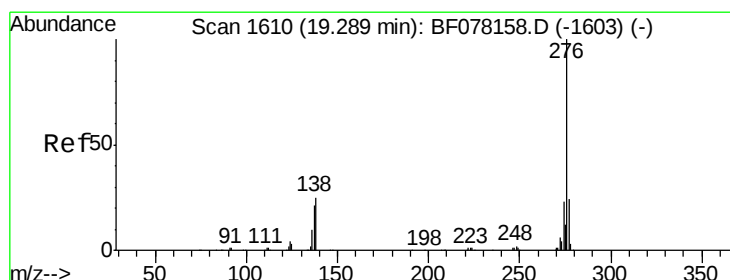
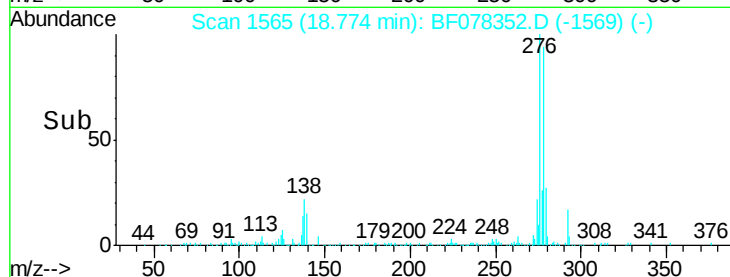
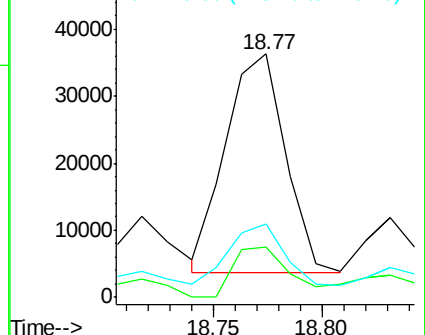
279 30.0 19.0 28.6#



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: 32.47 ng/mL

RT: 19.12 min Scan# 1595

Delta R.T. -0.14 min

Lab File: BF078352.D

Acq: 8 Apr 2015 23:53

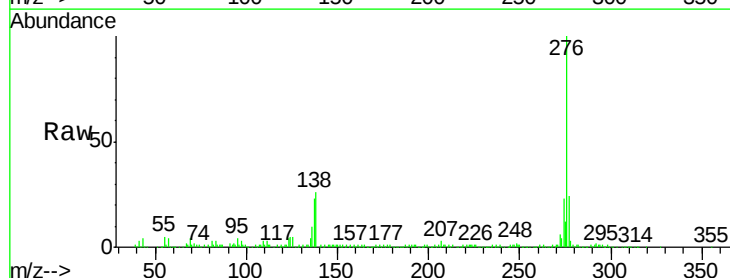
Tgt Ion:276 Resp: 299694

Ion Ratio Lower Upper

276 100

277 24.3 19.0 28.4

138 26.2 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

