

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF060415\  
 Data File : BF079723.D  
 Acq On : 5 Jun 2015 3:16  
 Operator : TP/IZ  
 Sample : G2474-02  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 C-2

Quant Time: Jun 06 03:43:49 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF060415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jun 06 03:31:13 2015  
 Response via : Initial Calibration

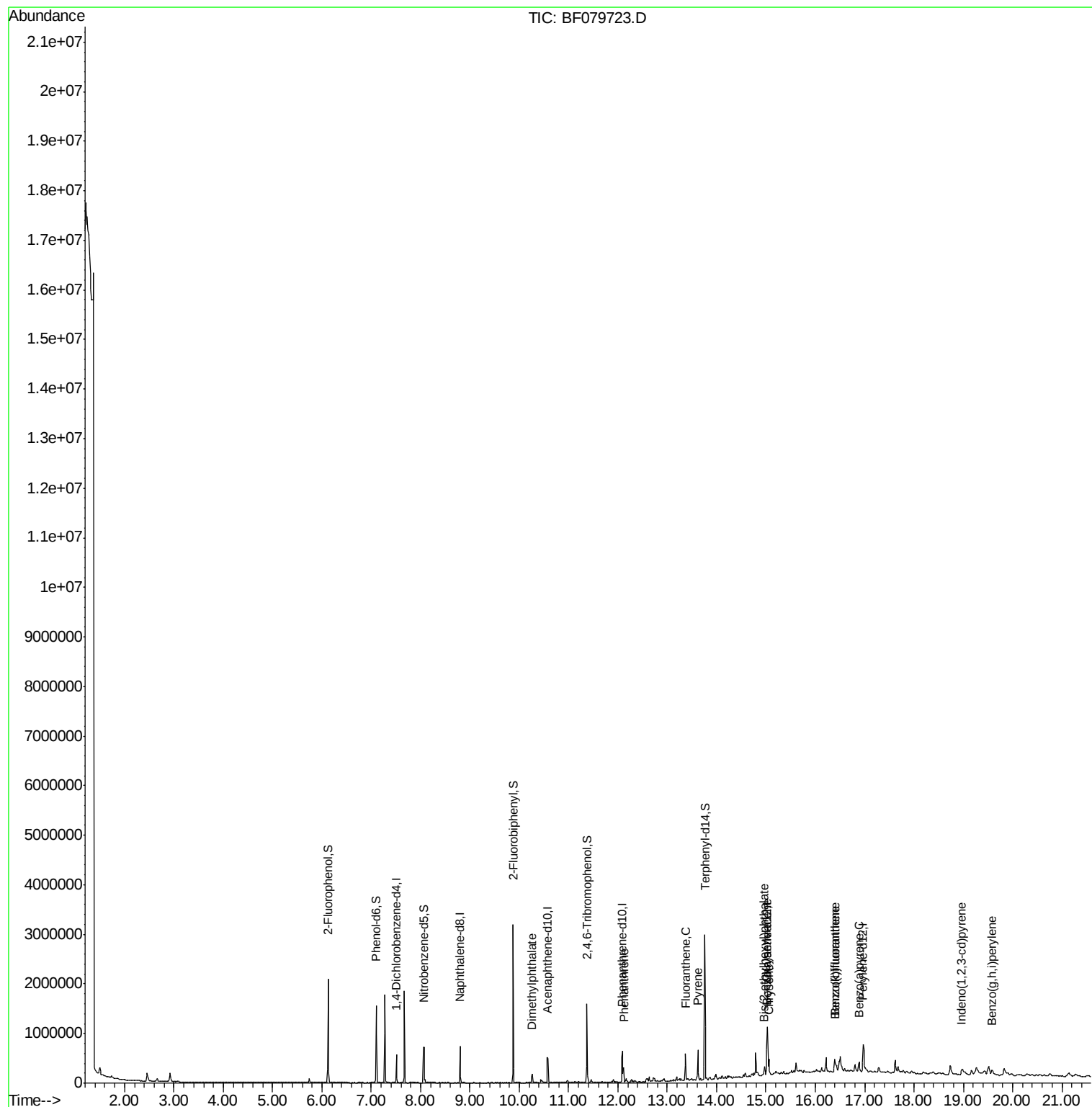
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min)       |
|--------------------------------|-------|------|----------|--------|-------|----------------|
| 1) 1,4-Dichlorobenzene-d4      | 7.51  | 152  | 76549    | 20.00  | ng    | 0.00           |
| 21) Naphthalene-d8             | 8.80  | 136  | 294549   | 20.00  | ng    | 0.00           |
| 38) Acenaphthene-d10           | 10.57 | 164  | 148385   | 20.00  | ng    | -0.01          |
| 63) Phenanthrene-d10           | 12.09 | 188  | 312165   | 20.00  | ng    | 0.01           |
| 75) Chrysene-d12               | 15.03 | 240  | 347263   | 20.00  | ng    | 0.05           |
| 86) Perylene-d12               | 16.97 | 264  | 346876   | 20.00  | ng    | 0.06           |
| System Monitoring Compounds    |       |      |          |        |       |                |
| 5) 2-Fluorophenol              | 6.12  | 112  | 498865   | 111.75 | ng    | 0.00           |
| 7) Phenol-d6                   | 7.10  | 99   | 646600   | 111.26 | ng    | 0.00           |
| 23) Nitrobenzene-d5            | 8.07  | 82   | 337865   | 69.84  | ng    | 0.00           |
| 41) 2,4,6-Tribromophenol       | 11.37 | 330  | 171757   | 128.90 | ng    | 0.00           |
| 44) 2-Fluorobiphenyl           | 9.87  | 172  | 842270   | 82.18  | ng    | 0.00           |
| 78) Terphenyl-d14              | 13.76 | 244  | 1011629  | 68.63  | ng    | 0.02           |
| Target Compounds               |       |      |          |        |       |                |
| 49) Dimethylphthalate          | 10.26 | 163  | 86514    | 7.57   | ng    | Qvalue<br># 98 |
| 70) Phenanthrene               | 12.11 | 178  | 129520   | 7.13   | ng    | 98             |
| 74) Fluoranthene               | 13.37 | 202  | 268508   | 13.63  | ng    | 96             |
| 77) Pyrene                     | 13.62 | 202  | 249855   | 11.58  | ng    | 98             |
| 80) Benzo(a)anthracene         | 15.02 | 228  | 152946   | 7.20   | ng    | 97             |
| 82) Chrysene                   | 15.06 | 228  | 134587   | 6.77   | ng    | 98             |
| 83) Bis(2-ethylhexyl)phthalate | 14.97 | 149  | 56386    | 4.32   | ng    | 100            |
| 85) Indeno(1,2,3-cd)pyrene     | 18.97 | 276  | 100661   | 4.49   | ng    | 98             |
| 87) Benzo(b)fluoranthene       | 16.40 | 252  | 185038m  | 8.27   | ng    |                |
| 88) Benzo(k)fluoranthene       | 16.41 | 252  | 84230m   | 3.94   | ng    |                |
| 89) Benzo(a)pyrene             | 16.89 | 252  | 128710   | 6.30   | ng    | 99             |
| 91) Benzo(g,h,i)perylene       | 19.59 | 276  | 100458   | 5.20   | ng    | 98             |

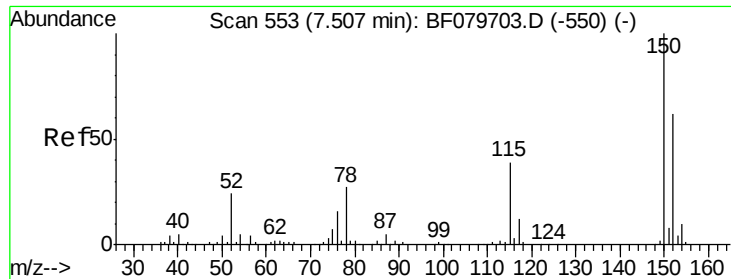
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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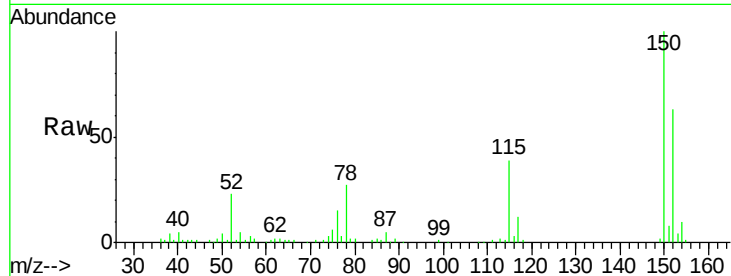




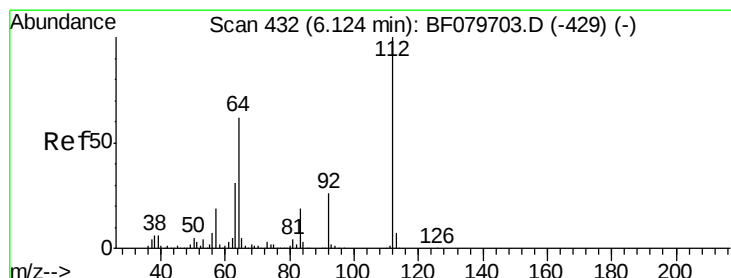
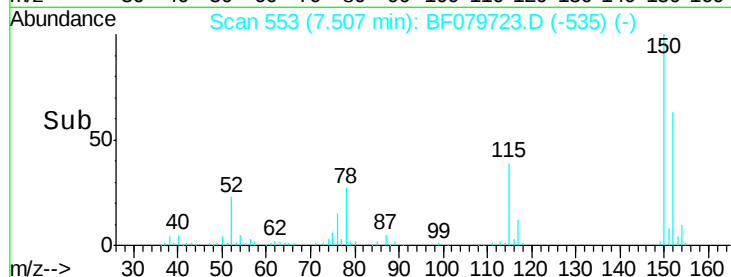
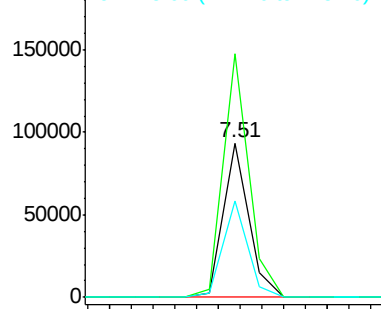
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 7.51 min Scan# 553  
 Delta R.T. 0.00 min  
 Lab File: BF079723.D  
 Acq: 5 Jun 2015 3:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
 C-2

Tgt Ion:152 Resp: 76549  
 Ion Ratio Lower Upper  
 152 100  
 150 157.7 128.1 192.1  
 115 62.1 49.7 74.5

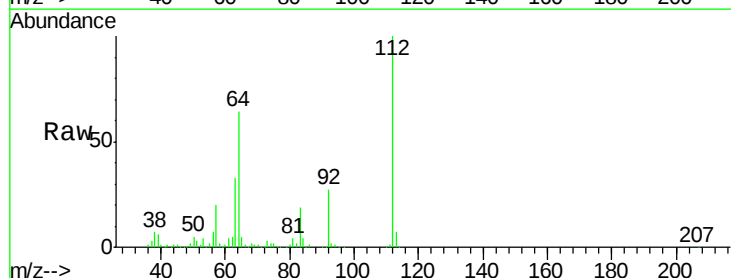


Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E

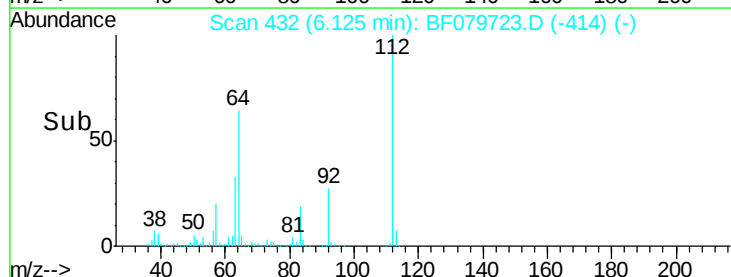
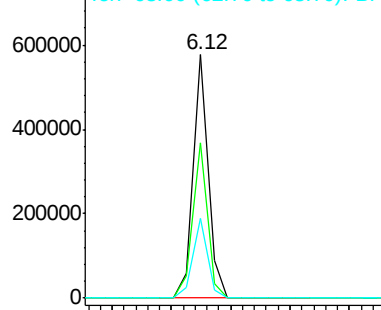


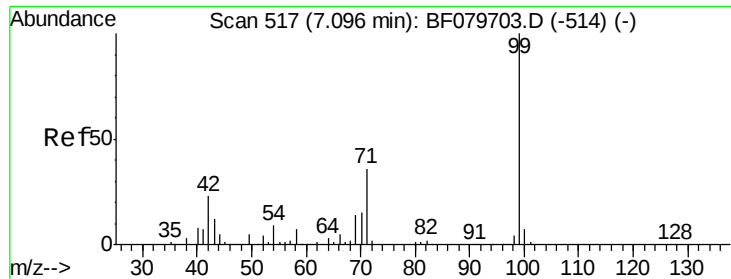
#5  
 2-Fluorophenol  
 Concen: 111.75 ng  
 RT: 6.12 min Scan# 432  
 Delta R.T. 0.00 min  
 Lab File: BF079723.D  
 Acq: 5 Jun 2015 3:16

Tgt Ion:112 Resp: 498865  
 Ion Ratio Lower Upper  
 112 100  
 64 63.9 49.6 74.4  
 63 32.7 24.9 37.3



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





#7

Phenol-d6

Concen: 111.26 ng

RT: 7.10 min Scan# 517

Delta R.T. 0.00 min

Lab File: BF079723.D

Acq: 5 Jun 2015 3:16

Instrument :

BNA\_F

ClientSampleId :

C-2

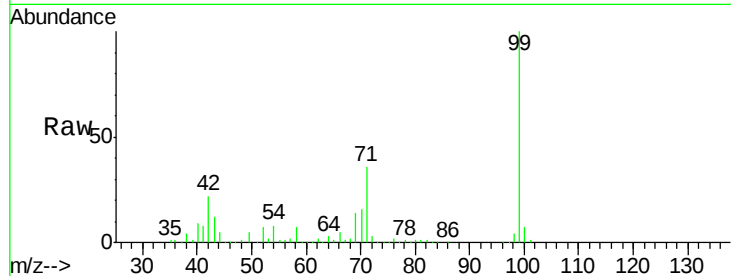
Tgt Ion: 99 Resp: 646600

Ion Ratio Lower Upper

99 100

42 22.0 18.0 27.0

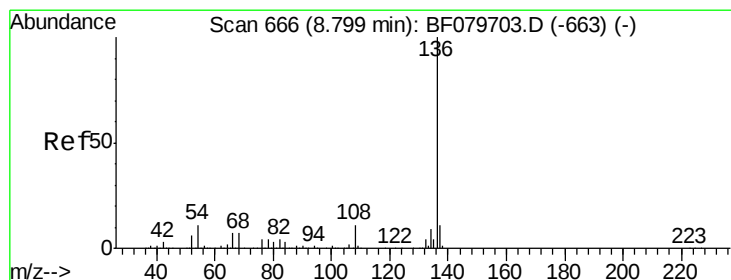
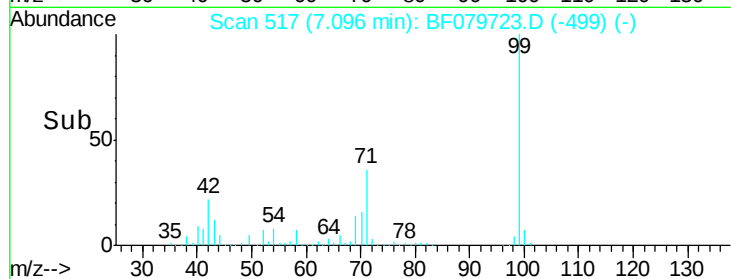
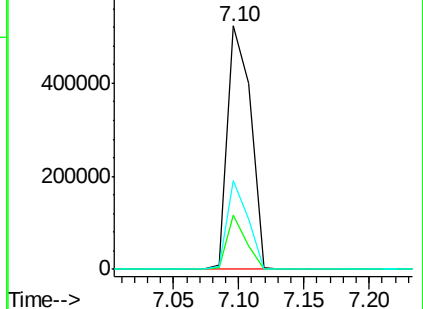
71 36.4 28.4 42.6



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.80 min Scan# 666

Delta R.T. 0.00 min

Lab File: BF079723.D

Acq: 5 Jun 2015 3:16

Tgt Ion: 136 Resp: 294549

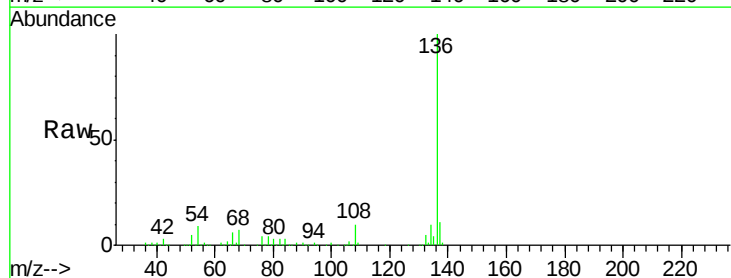
Ion Ratio Lower Upper

136 100

137 10.9 8.8 13.2

54 9.1 8.7 13.1

68 6.9 5.8 8.8

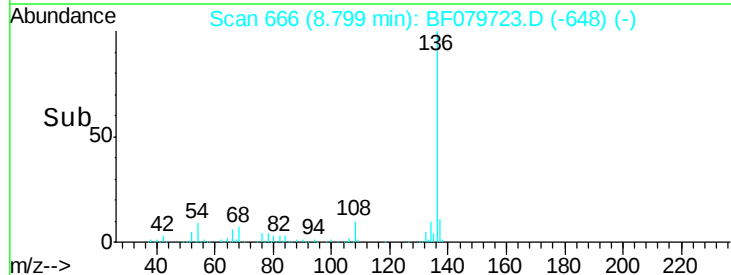
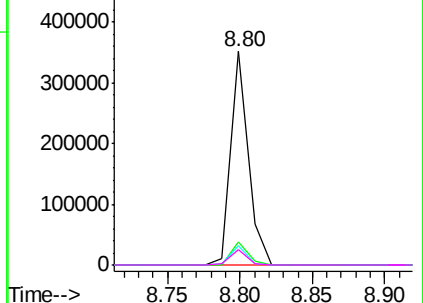


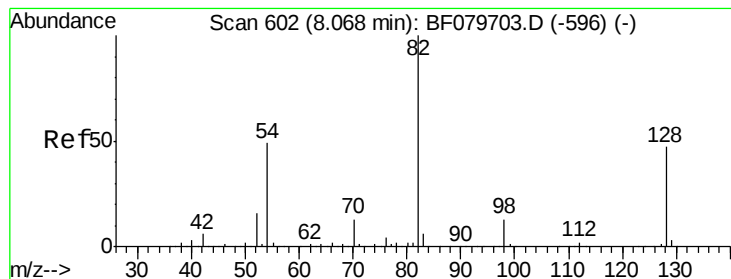
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0





#23

Nitrobenzene-d5

Concen: 69.84 ng

RT: 8.07 min Scan# 602

Delta R.T. 0.00 min

Lab File: BF079723.D

Acq: 5 Jun 2015 3:16

Instrument :

BNA\_F

ClientSampleId :

C-2

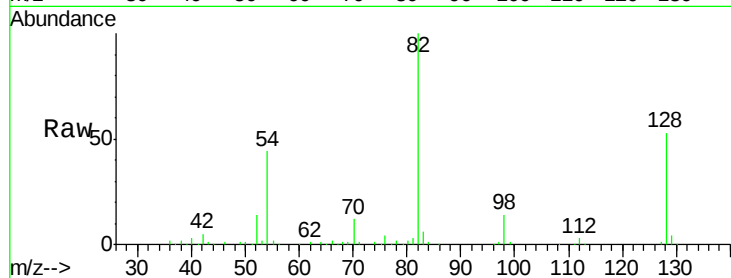
Tgt Ion: 82 Resp: 337865

Ion Ratio Lower Upper

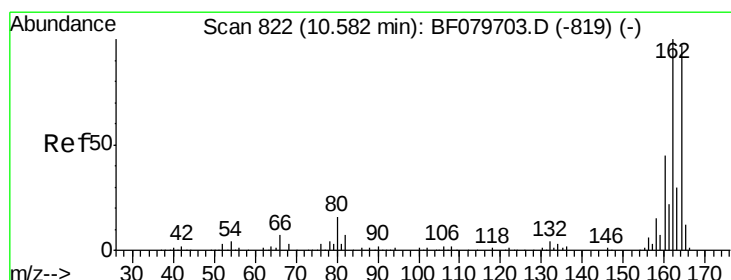
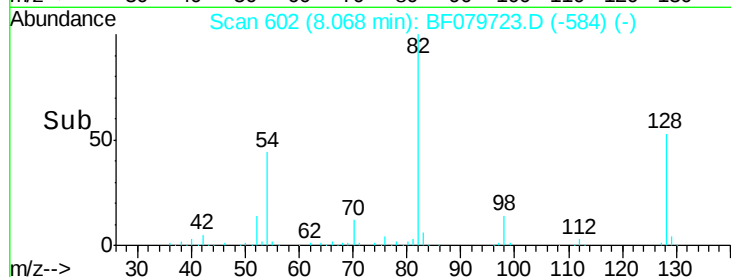
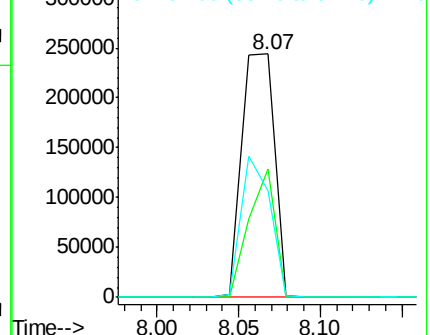
82 100

128 52.8 37.6 56.4

54 43.8 39.4 59.2



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



#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 10.57 min Scan# 821

Delta R.T. -0.01 min

Lab File: BF079723.D

Acq: 5 Jun 2015 3:16

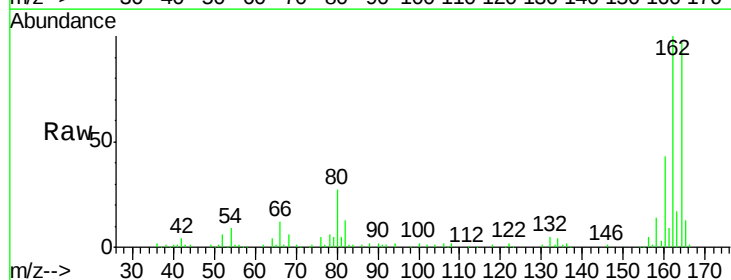
Tgt Ion: 164 Resp: 148385

Ion Ratio Lower Upper

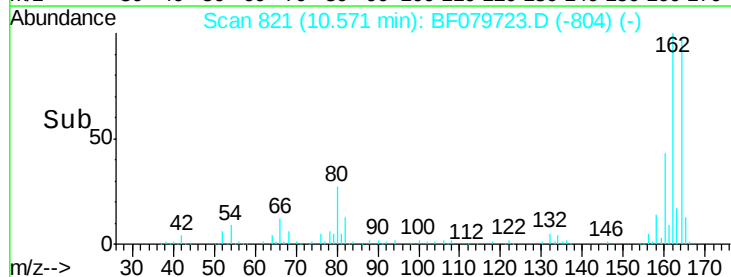
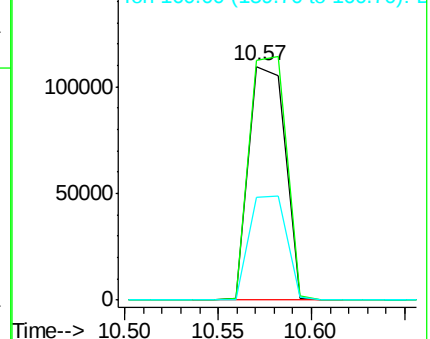
164 100

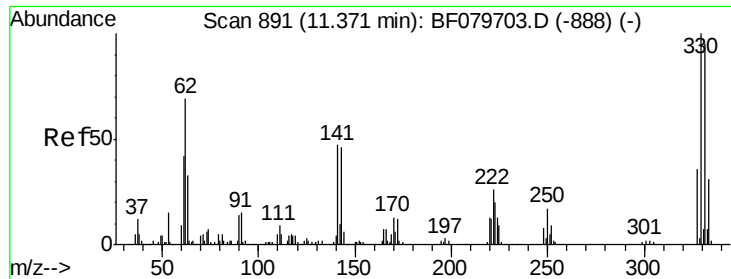
162 102.7 82.6 123.8

160 44.0 36.8 55.2



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

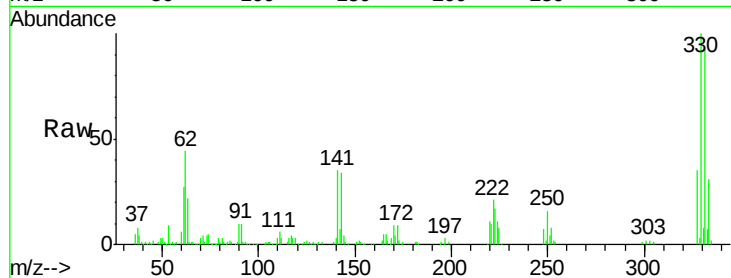




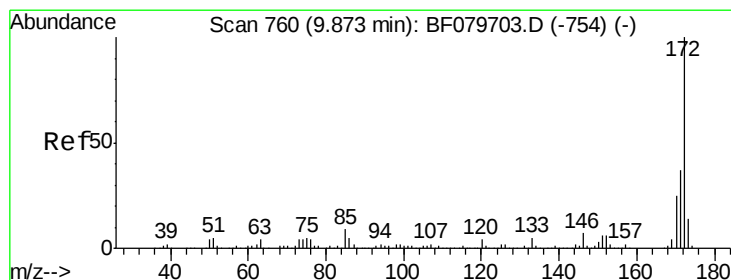
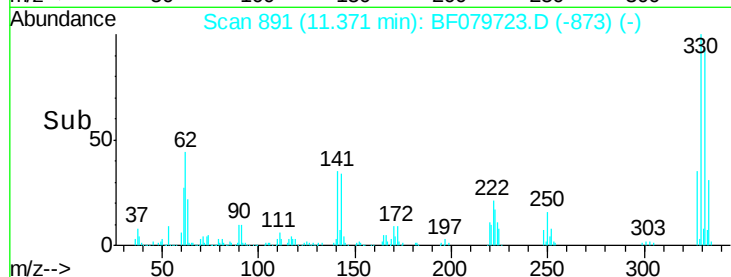
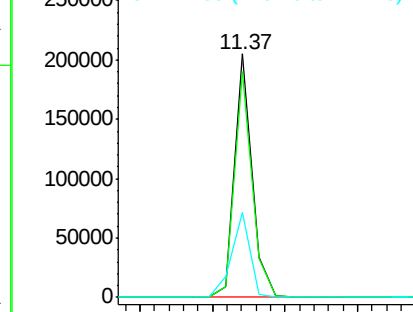
#41  
 2,4,6-Tribromophenol  
 Concen: 128.90 ng  
 RT: 11.37 min Scan# 891  
 Delta R.T. 0.00 min  
 Lab File: BF079723.D  
 Acq: 5 Jun 2015 3:16

Instrument :  
 BNA\_F  
 ClientSampled :  
 C-2

Tgt Ion:330 Resp: 171757  
 Ion Ratio Lower Upper  
 330 100  
 332 93.6 77.4 116.0  
 141 37.0 30.2 45.2

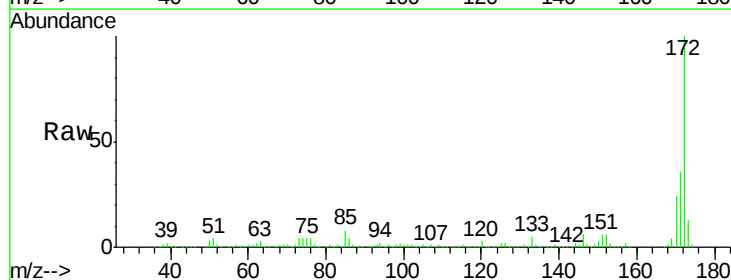


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

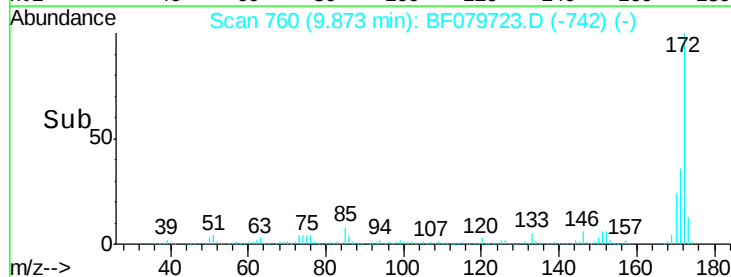
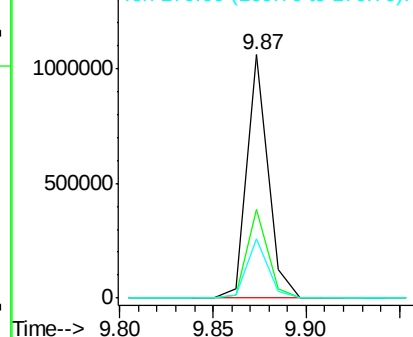


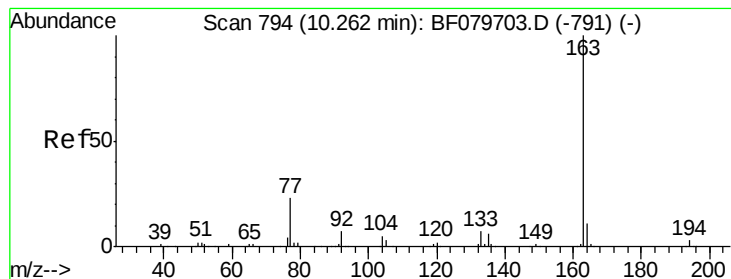
#44  
 2-Fluorobiphenyl  
 Concen: 82.18 ng  
 RT: 9.87 min Scan# 760  
 Delta R.T. 0.00 min  
 Lab File: BF079723.D  
 Acq: 5 Jun 2015 3:16

Tgt Ion:172 Resp: 842270  
 Ion Ratio Lower Upper  
 172 100  
 171 36.3 29.4 44.0  
 170 24.3 19.7 29.5



Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E





#49

Dimethylphthalate

Concen: 7.57 ng

RT: 10.26 min Scan# 794

Delta R.T. 0.00 min

Lab File: BF079723.D

Acq: 5 Jun 2015 3:16

Instrument :

BNA\_F

ClientSampleId :

C-2

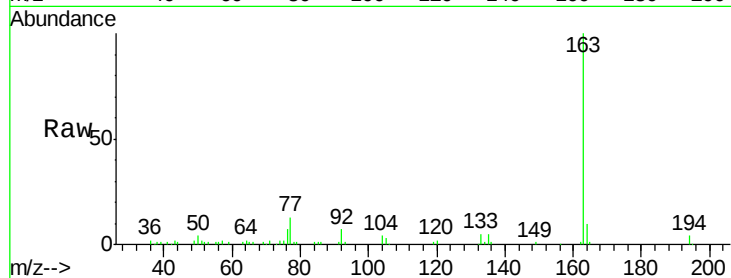
Tgt Ion:163 Resp: 86514

Ion Ratio Lower Upper

163 100

194 3.9 2.6 3.8#

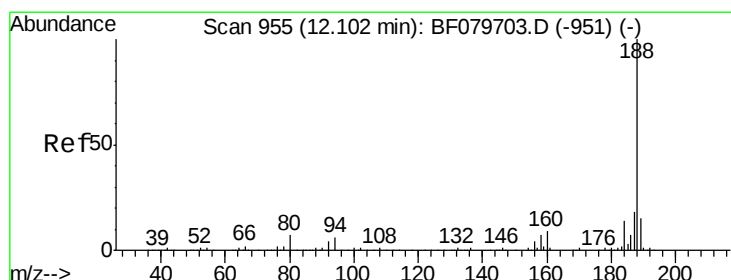
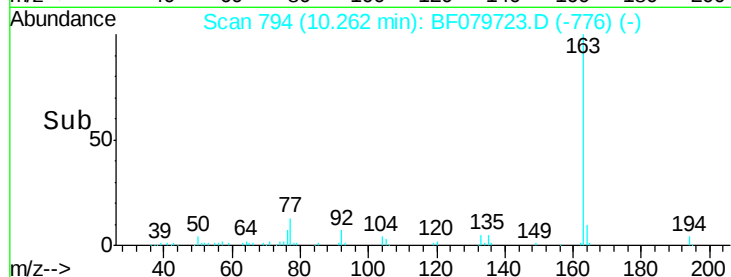
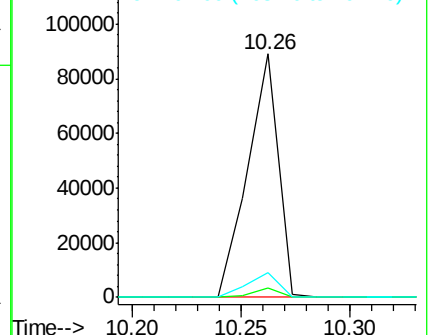
164 10.0 8.5 12.7



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 12.09 min Scan# 954

Delta R.T. 0.01 min

Lab File: BF079723.D

Acq: 5 Jun 2015 3:16

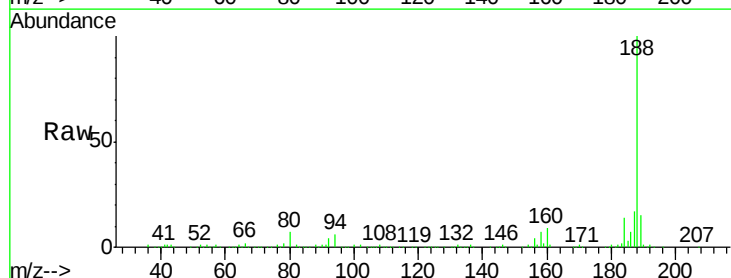
Tgt Ion:188 Resp: 312165

Ion Ratio Lower Upper

188 100

94 6.3 5.0 7.4

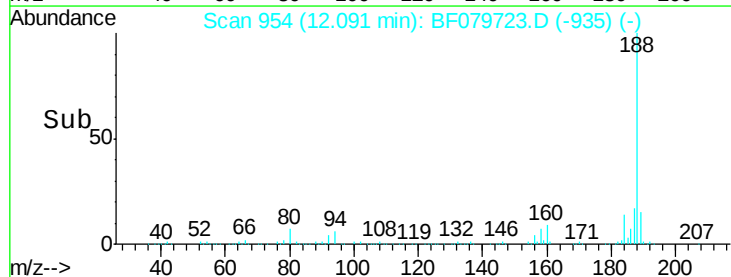
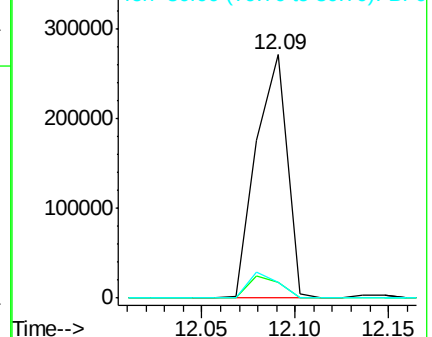
80 6.7 5.3 7.9

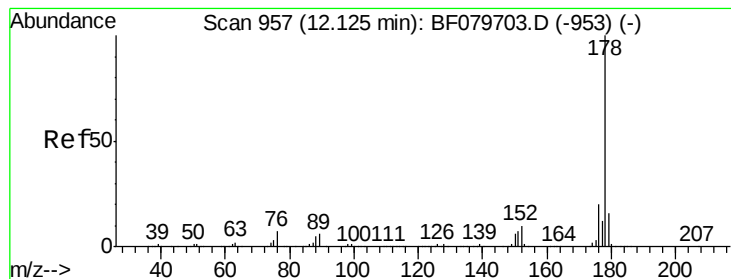


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 7.13 ng

RT: 12.11 min Scan# 956

Delta R.T. 0.00 min

Lab File: BF079723.D

Acq: 5 Jun 2015 3:16

Instrument :

BNA\_F

ClientSampleId :

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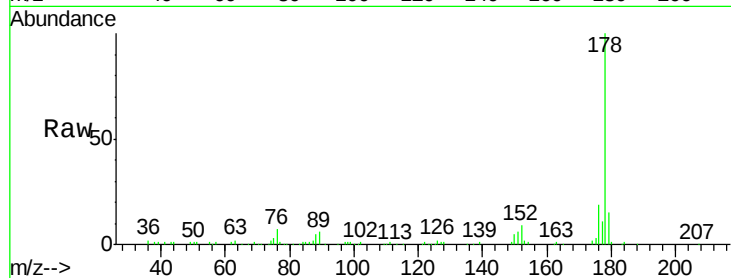
Tgt Ion:178 Resp: 129520

Ion Ratio Lower Upper

178 100

176 19.1 16.2 24.4

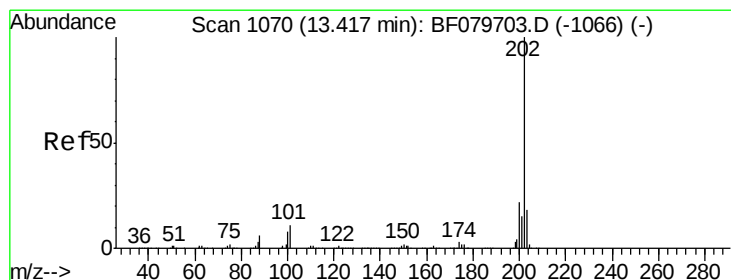
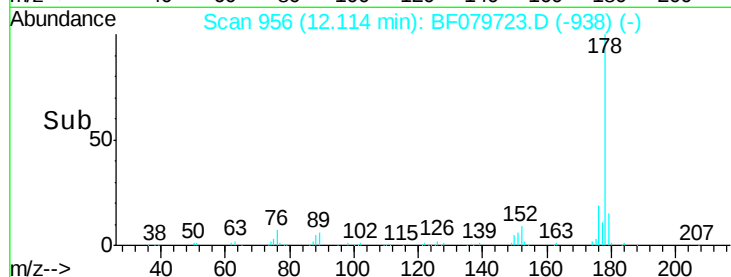
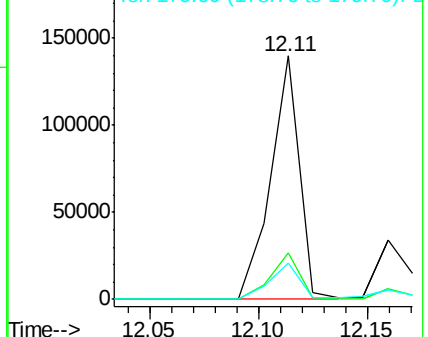
179 15.1 12.6 19.0



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#74

Fluoranthene

Concen: 13.63 ng

RT: 13.37 min Scan# 1066

Delta R.T. 0.02 min

Lab File: BF079723.D

Acq: 5 Jun 2015 3:16

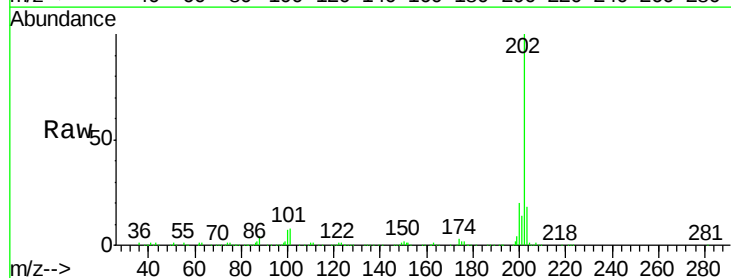
Tgt Ion:202 Resp: 268508

Ion Ratio Lower Upper

202 100

101 7.9 0.0 31.3

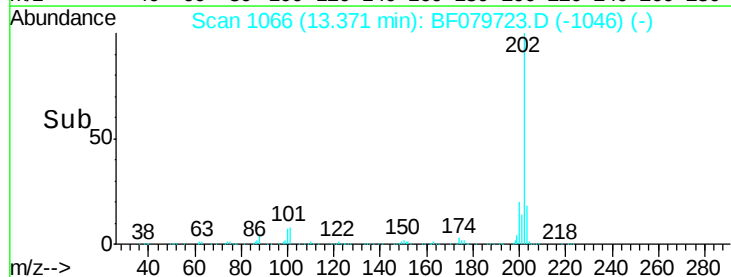
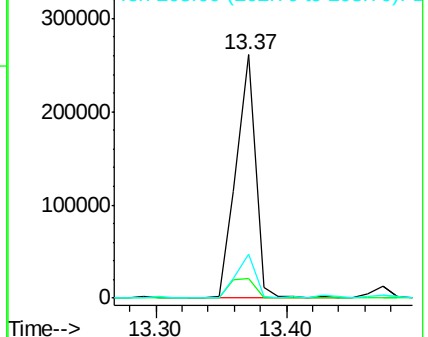
203 17.9 0.0 38.4

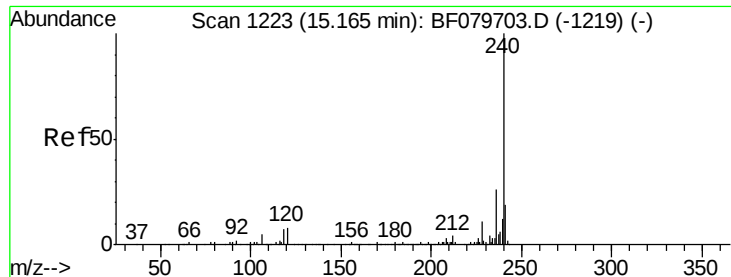


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

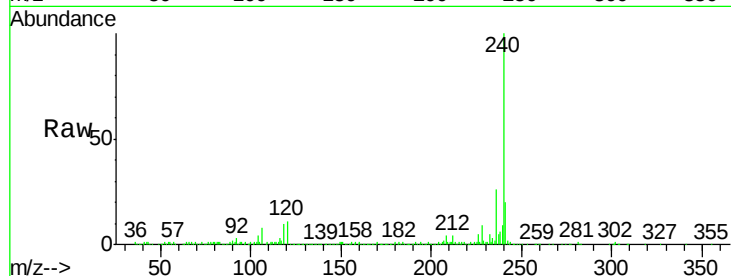




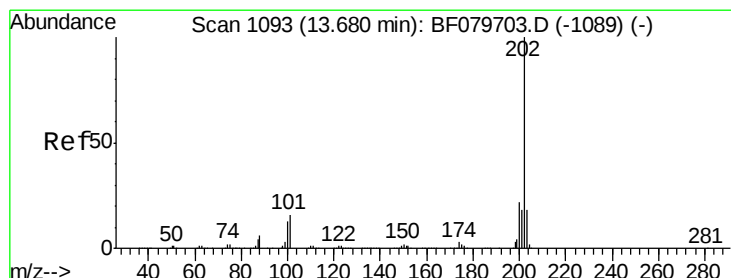
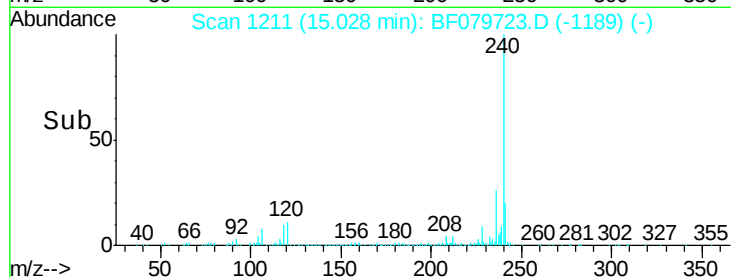
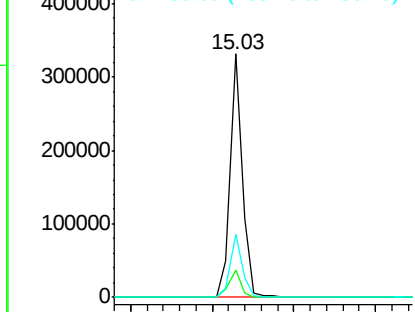
#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 15.03 min Scan# 1211  
 Delta R.T. 0.05 min  
 Lab File: BF079723.D  
 Acq: 5 Jun 2015 3:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
 C-2

Tgt Ion:240 Resp: 347263  
 Ion Ratio Lower Upper  
 240 100  
 120 11.0 6.2 9.2#  
 236 25.8 21.0 31.4

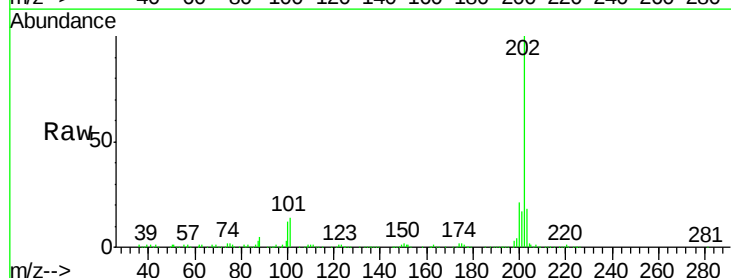


Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E

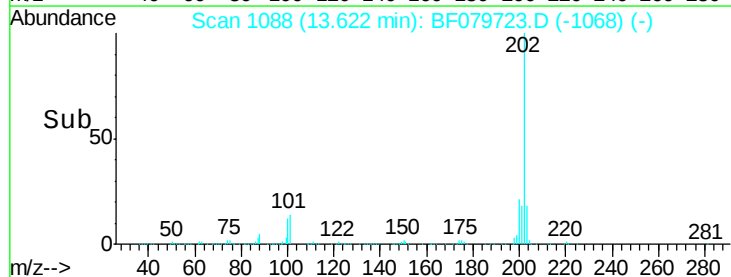
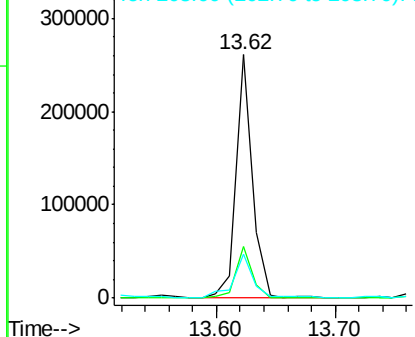


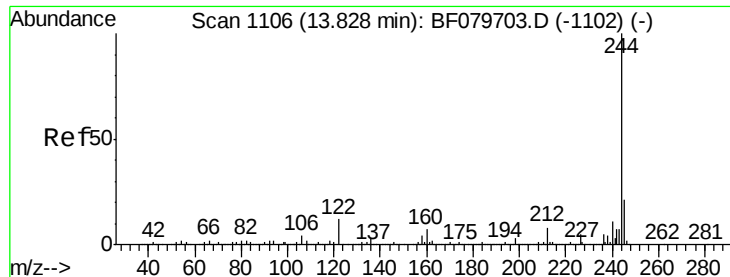
#77  
 Pyrene  
 Concen: 11.58 ng  
 RT: 13.62 min Scan# 1088  
 Delta R.T. 0.02 min  
 Lab File: BF079723.D  
 Acq: 5 Jun 2015 3:16

Tgt Ion:202 Resp: 249855  
 Ion Ratio Lower Upper  
 202 100  
 200 21.0 17.5 26.3  
 203 18.0 14.8 22.2



Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 200.00 (199.70 to 200.70): E  
 Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 68.63 ng

RT: 13.76 min Scan# 1100

Delta R.T. 0.02 min

Lab File: BF079723.D

Acq: 5 Jun 2015 3:16

Instrument :

BNA\_F

ClientSampleId :

C-2

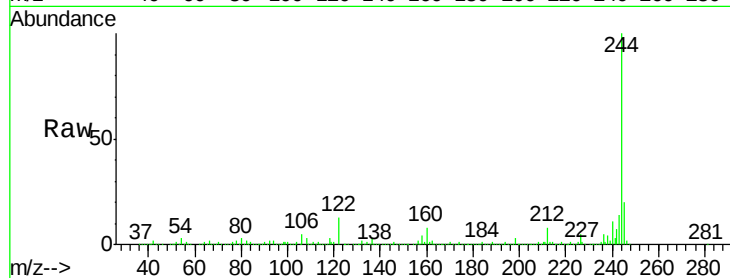
Tgt Ion:244 Resp: 1011629

Ion Ratio Lower Upper

244 100

212 7.6 6.1 9.1

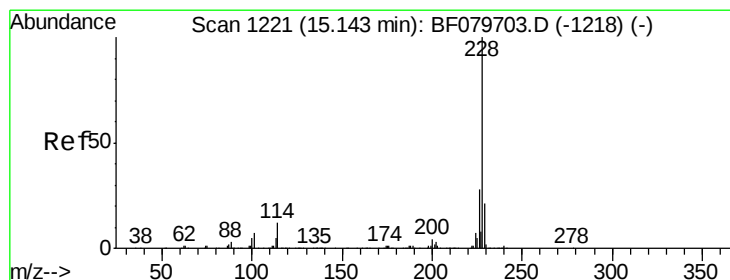
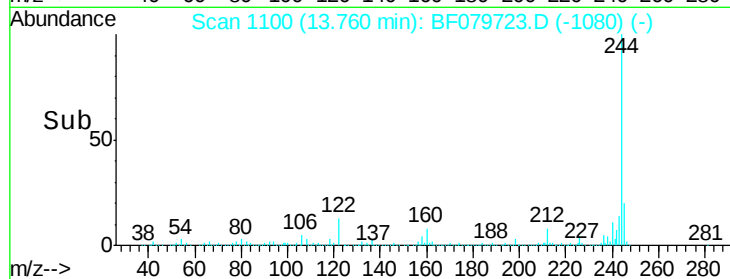
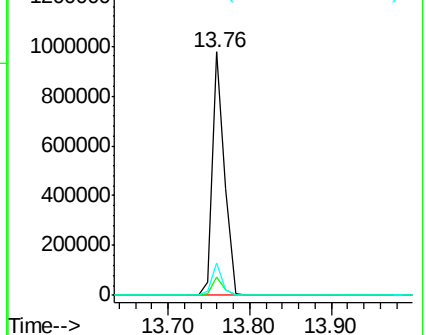
122 13.3 9.3 13.9



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: 7.20 ng

RT: 15.02 min Scan# 1210

Delta R.T. 0.05 min

Lab File: BF079723.D

Acq: 5 Jun 2015 3:16

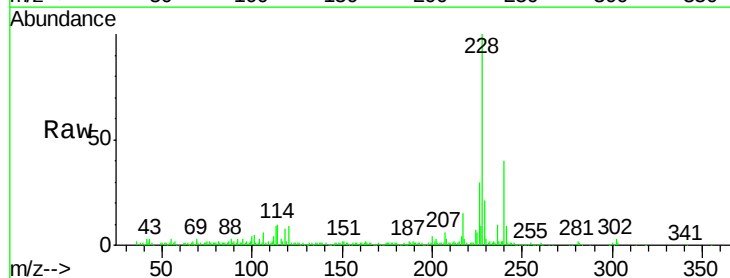
Tgt Ion:228 Resp: 152946

Ion Ratio Lower Upper

228 100

226 30.1 22.2 33.4

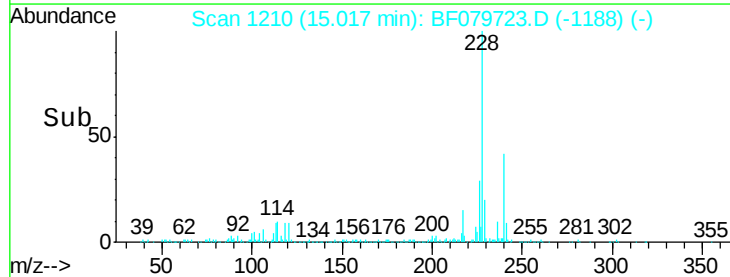
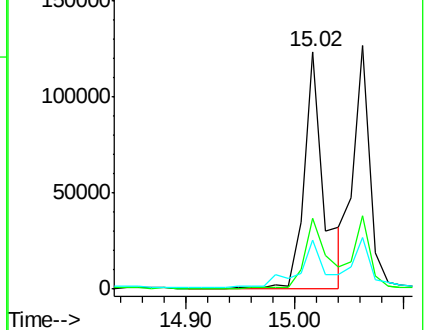
229 20.9 16.6 25.0

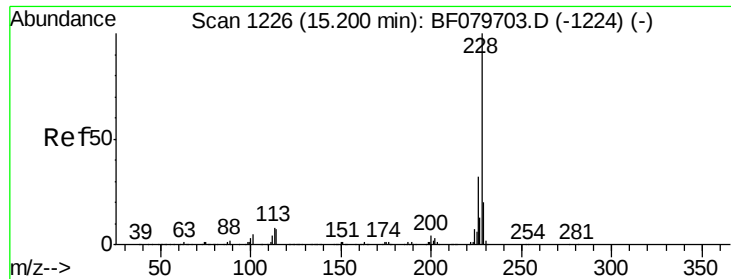


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

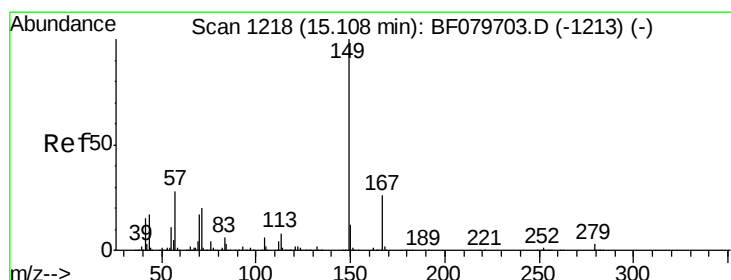
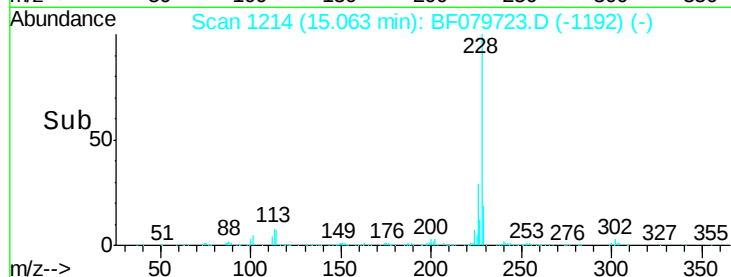
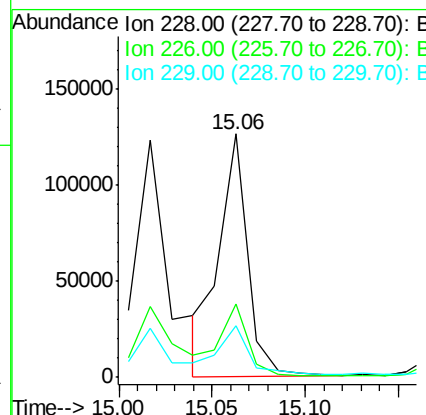
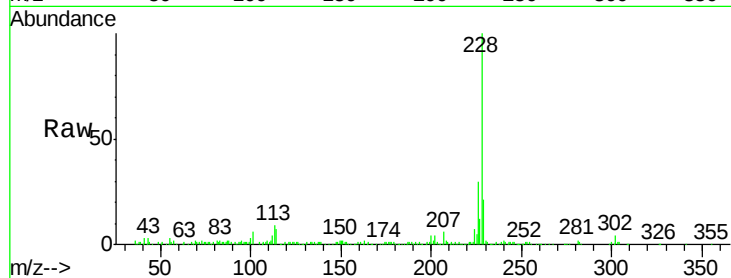




#82  
 Chrysene  
 Concen: 6.77 ng  
 RT: 15.06 min Scan# 1214  
 Delta R.T. 0.05 min  
 Lab File: BF079723.D  
 Acq: 5 Jun 2015 3:16

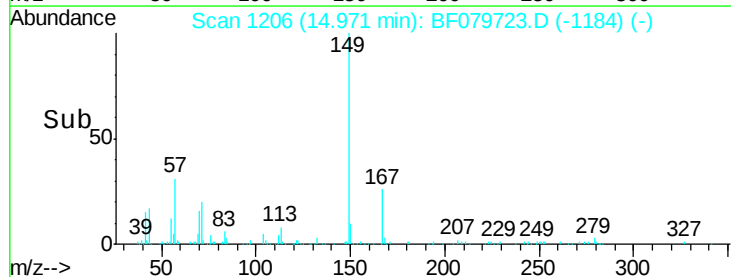
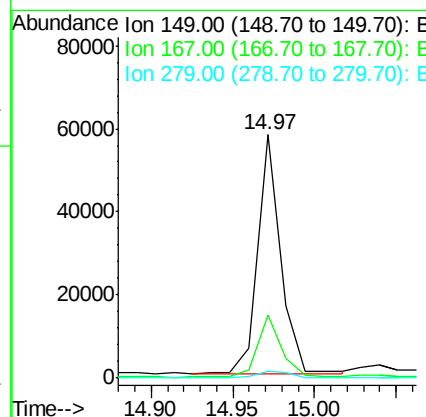
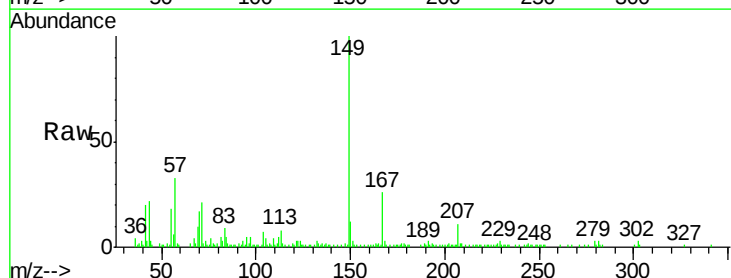
Instrument :  
 BNA\_F  
 ClientSampleId :  
 C-2

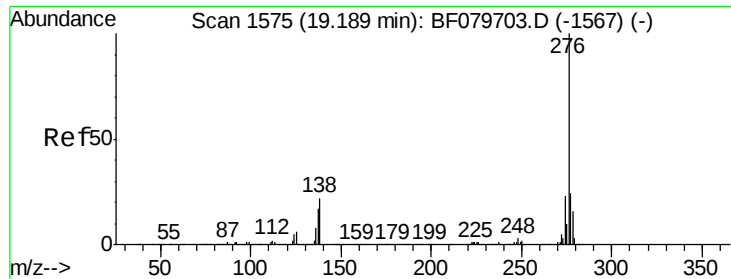
Tgt Ion: 228 Resp: 134587  
 Ion Ratio Lower Upper  
 228 100  
 226 29.9 25.2 37.8  
 229 21.2 16.2 24.4



#83  
 Bis(2-ethylhexyl)phthalate  
 Concen: 4.32 ng  
 RT: 14.97 min Scan# 1206  
 Delta R.T. 0.05 min  
 Lab File: BF079723.D  
 Acq: 5 Jun 2015 3:16

Tgt Ion: 149 Resp: 56386  
 Ion Ratio Lower Upper  
 149 100  
 167 26.1 20.9 31.3  
 279 2.9 2.2 3.2

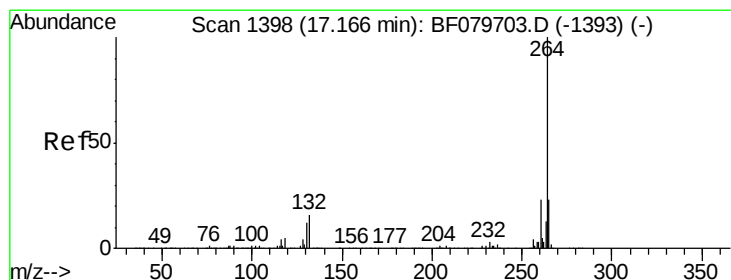
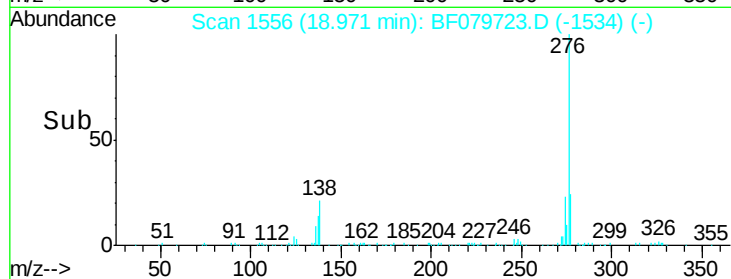
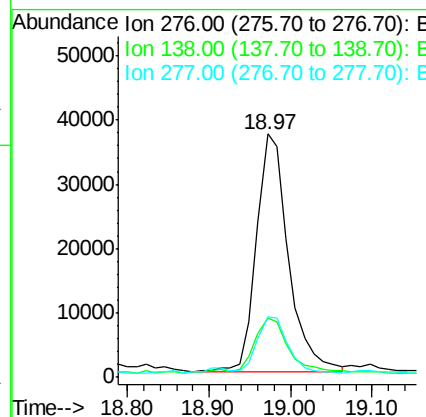
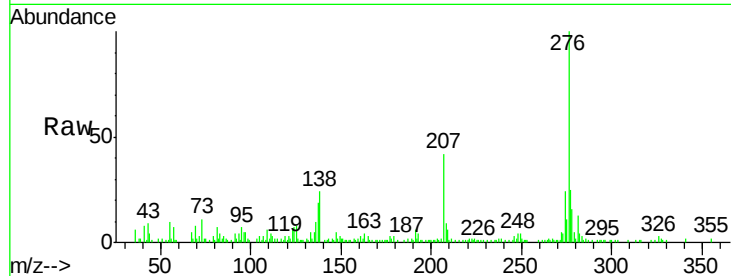




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 4.49 ng  
 RT: 18.97 min Scan# 1556  
 Delta R.T. 0.05 min  
 Lab File: BF079723.D  
 Acq: 5 Jun 2015 3:16

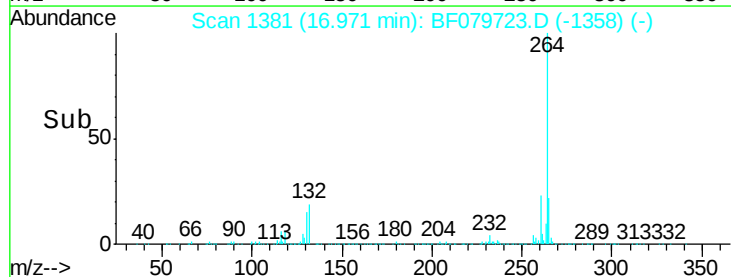
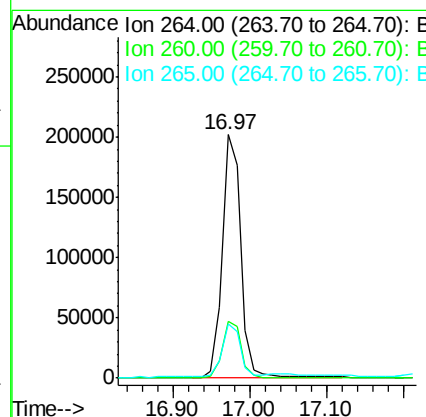
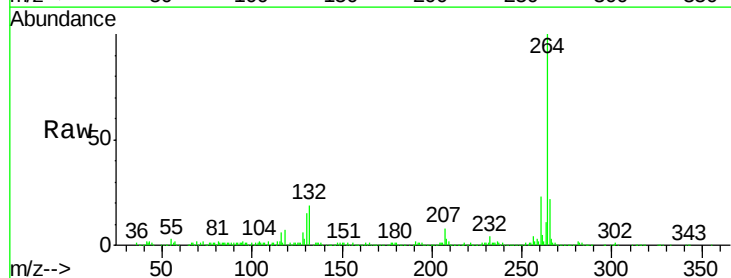
Instrument :  
 BNA\_F  
 ClientSampleId :  
 C-2

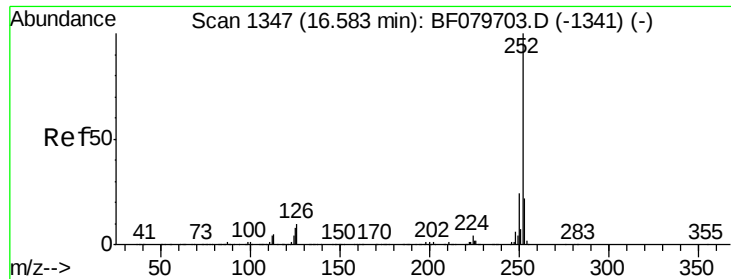
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 26.6  | 20.8  | 31.2  |
| 277     | 23.5  | 20.0  | 30.0  |



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 16.97 min Scan# 1381  
 Delta R.T. 0.06 min  
 Lab File: BF079723.D  
 Acq: 5 Jun 2015 3:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.4  | 18.6  | 27.8  |
| 265     | 22.4  | 18.2  | 27.4  |

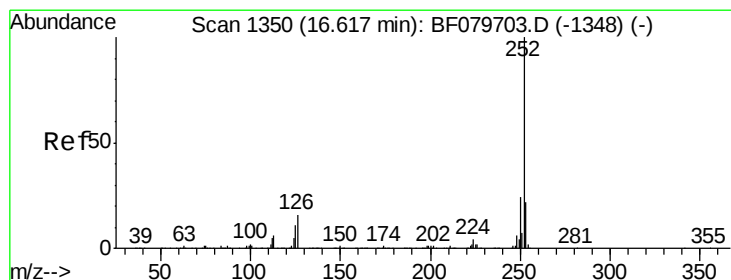
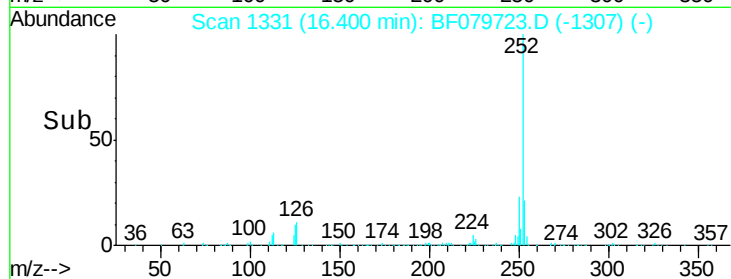
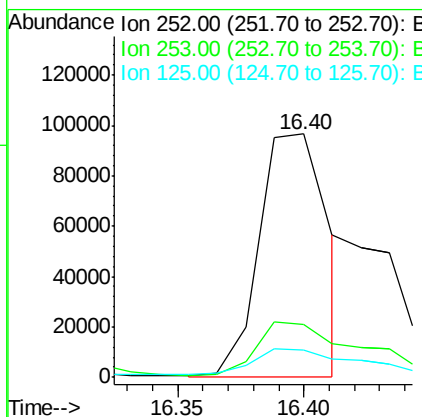
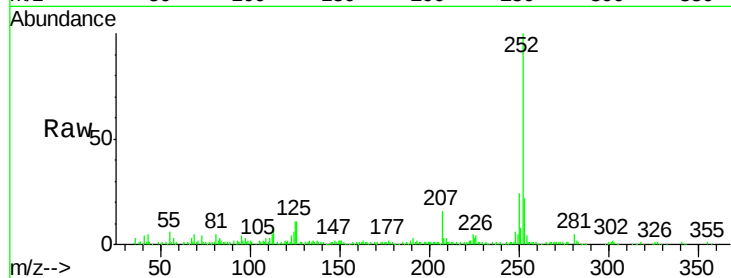




#87  
Benzo(b)fluoranthene  
Concen: 8.27 ng m  
RT: 16.40 min Scan# 1331  
Delta R.T. 0.07 min  
Lab File: BF079723.D  
Acq: 5 Jun 2015 3:16

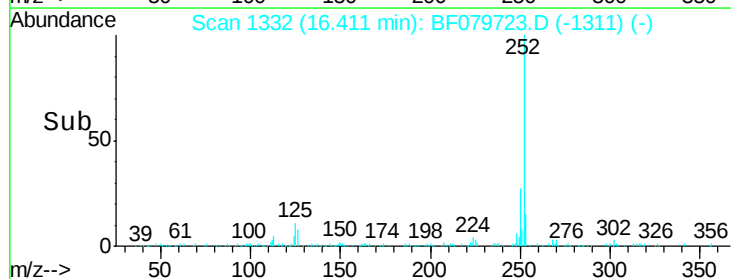
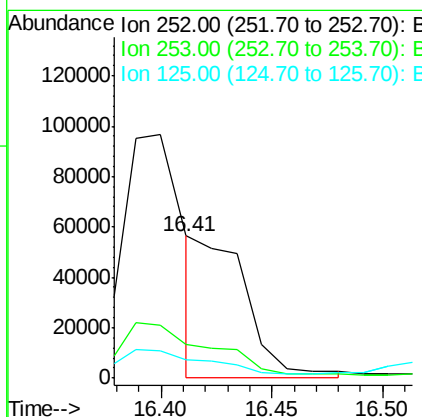
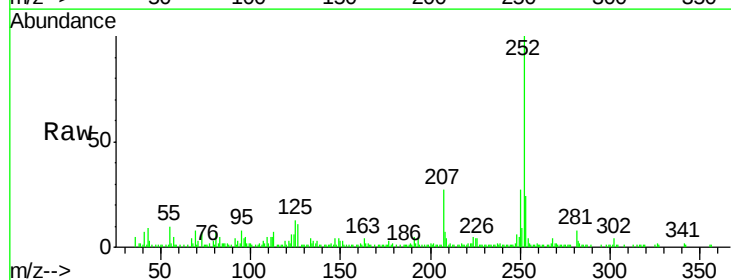
Instrument :  
BNA\_F  
ClientSampleId :  
C-2

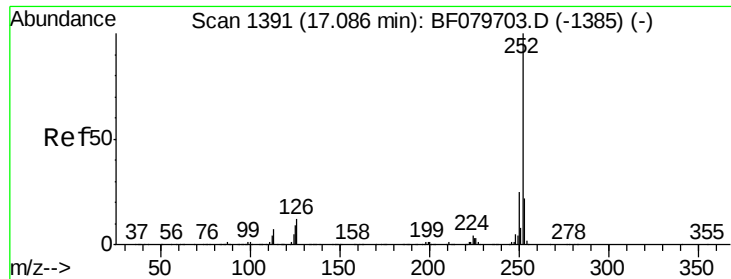
Tgt Ion: 252 Resp: 185038  
Ion Ratio Lower Upper  
252 100  
253 21.9 17.4 26.2  
125 11.0 6.5 9.7#



#88  
Benzo(k)fluoranthene  
Concen: 3.94 ng m  
RT: 16.41 min Scan# 1332  
Delta R.T. 0.03 min  
Lab File: BF079723.D  
Acq: 5 Jun 2015 3:16

Tgt Ion: 252 Resp: 84230  
Ion Ratio Lower Upper  
252 100  
253 24.0 17.8 26.8  
125 13.0 8.4 12.6#





#89

Benzo(a)pyrene

Concen: 6.30 ng

RT: 16.89 min Scan# 1374

Delta R.T. 0.06 min

Lab File: BF079723.D

Acq: 5 Jun 2015 3:16

Instrument :

BNA\_F

ClientSampleId :

C-2

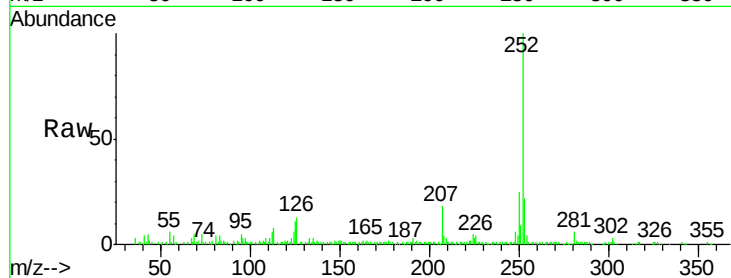
Tgt Ion:252 Resp: 128710

Ion Ratio Lower Upper

252 100

253 21.8 17.6 26.4

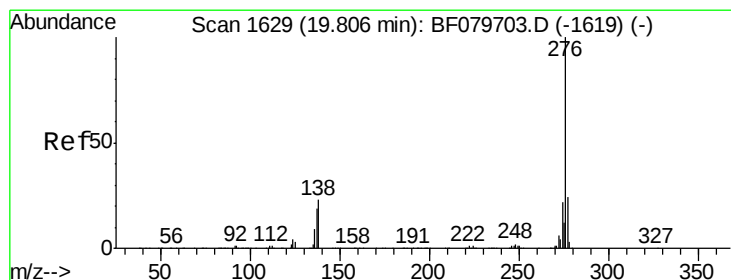
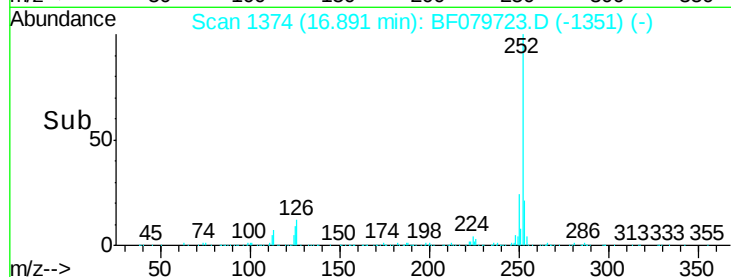
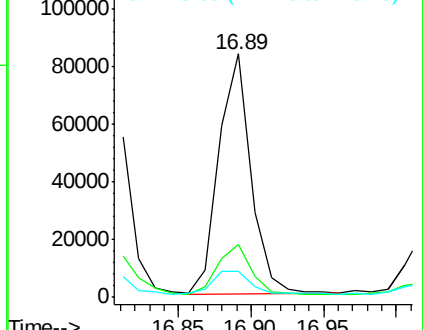
125 10.6 7.4 11.0



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(g,h,i)perylene

Concen: 5.20 ng

RT: 19.59 min Scan# 1610

Delta R.T. 0.06 min

Lab File: BF079723.D

Acq: 5 Jun 2015 3:16

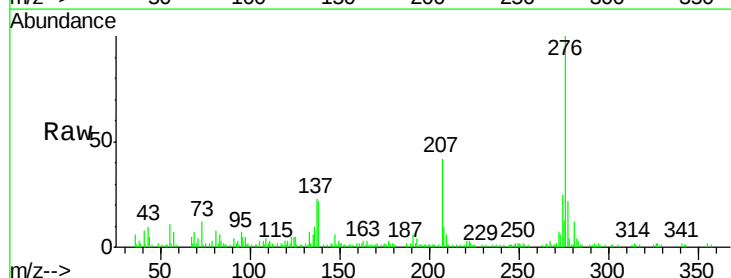
Tgt Ion:276 Resp: 100458

Ion Ratio Lower Upper

276 100

277 22.3 18.8 28.2

138 21.6 18.2 27.2



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

