

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF050615\  
 Data File : BF078967.D  
 Acq On : 6 May 2015 18:28  
 Operator : TP/IZ  
 Sample : G2114-11 2X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GRID-4(6-12)

Quant Time: May 07 01:10:38 2015  
 Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF043015.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu May 07 00:45:56 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.35  | 152  | 66044    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.92  | 136  | 285597   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10      | 11.10 | 164  | 139068   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10      | 12.95 | 188  | 287122   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12          | 16.25 | 240  | 334606   | 20.00 | ng    | -0.06    |
| 86) Perylene-d12          | 18.03 | 264  | 365225   | 20.00 | ng    | -0.19    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.64  | 112  | 85409    | 22.26 | ng    | 0.01     |
| 7) Phenol-d6                | 6.90  | 99   | 156411   | 30.84 | ng    | 0.01     |
| 23) Nitrobenzene-d5         | 8.03  | 82   | 84719    | 17.05 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol    | 12.08 | 330  | 69248    | 46.03 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl        | 10.27 | 172  | 229644   | 23.01 | ng    | 0.00     |
| 78) Terphenyl-d14           | 0.00  | 244  | 0        | 0.00  | ng    |          |

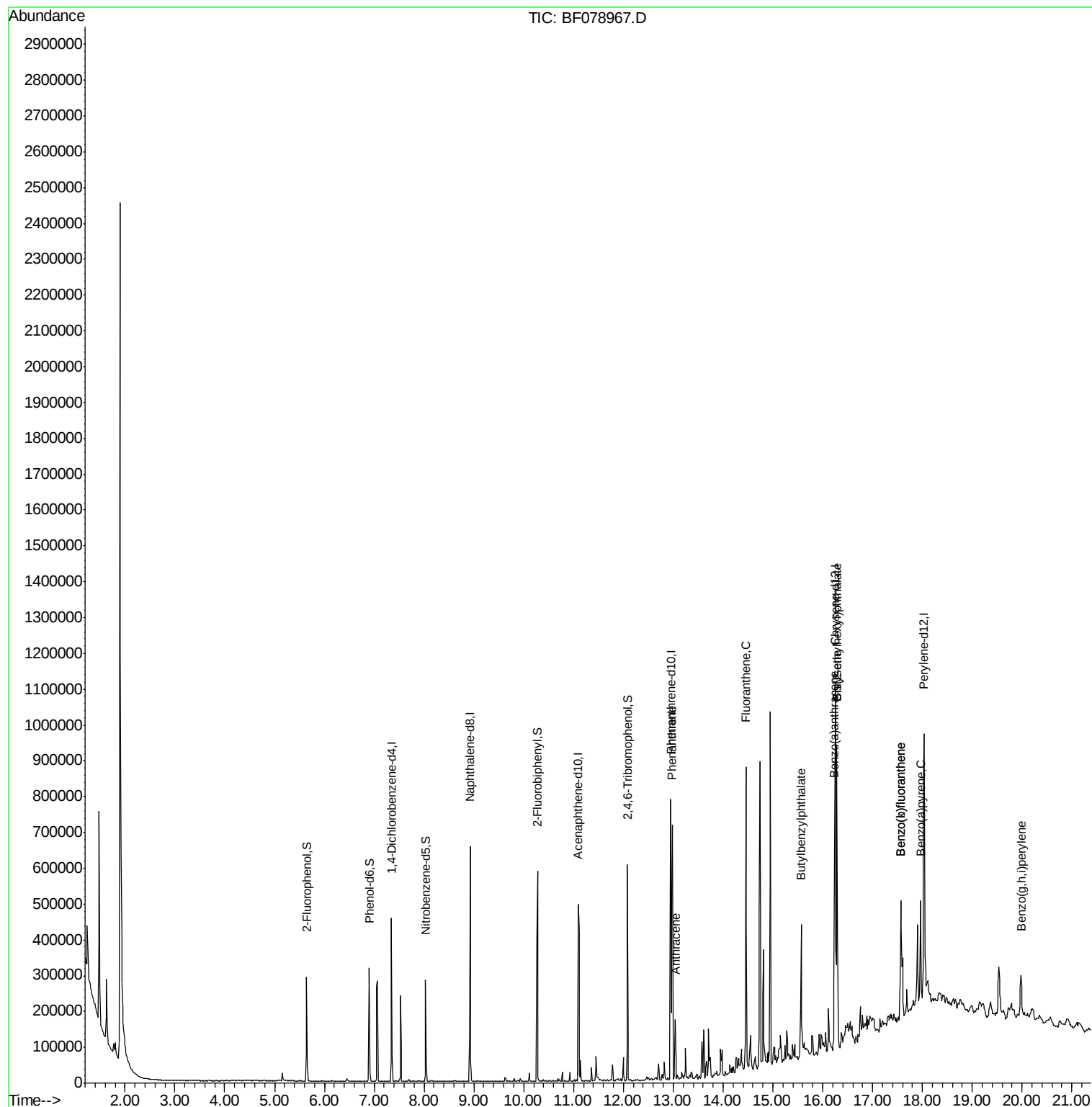
| Target Compounds               | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|--------------------------------|-------|------|----------|-------|-------|--------|
| 70) Phenanthrene               | 12.98 | 178  | 339188   | 21.12 | ng    | 99     |
| 71) Anthracene                 | 13.04 | 178  | 69978    | 4.44  | ng    | 99     |
| 74) Fluoranthene               | 14.46 | 202  | 393166   | 23.49 | ng    | 99     |
| 79) Butylbenzylphthalate       | 15.57 | 149  | 91241    | 10.83 | ng    | # 87   |
| 80) Benzo(a)anthracene         | 16.24 | 228  | 193914   | 10.58 | ng    | 98     |
| 82) Chrysene                   | 16.29 | 228  | 150911   | 8.56  | ng    | 98     |
| 83) Bis(2-ethylhexyl)phthalate | 16.29 | 149  | 174517   | 13.67 | ng    | # 94   |
| 87) Benzo(b)fluoranthene       | 17.57 | 252  | 213979   | 10.70 | ng    | 99     |
| 88) Benzo(k)fluoranthene       | 17.57 | 252  | 275817   | 14.25 | ng    | 99     |
| 89) Benzo(a)pyrene             | 17.97 | 252  | 155148   | 8.43  | ng    | 96     |
| 91) Benzo(g,h,i)perylene       | 19.98 | 276  | 100711   | 5.14  | ng    | 97     |

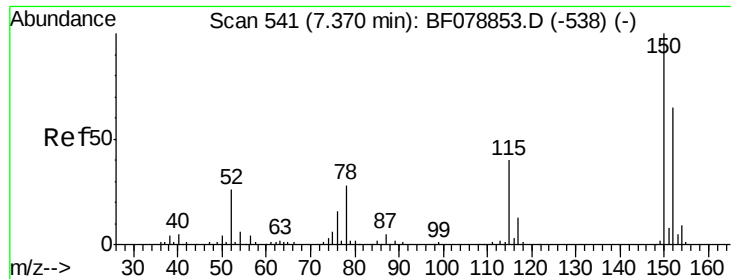
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu May 07 00:45:56 2015  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 7.35 min Scan# 539

Delta R.T. 0.00 min

Lab File: BF078967.D

Acq: 6 May 2015 18:28

Instrument :

BNA\_F

ClientSampleId :

GRID-4(6-12)

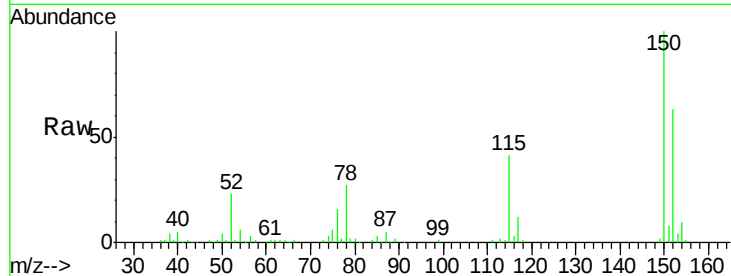
Tgt Ion:152 Resp: 66044

Ion Ratio Lower Upper

152 100

150 157.8 122.0 183.0

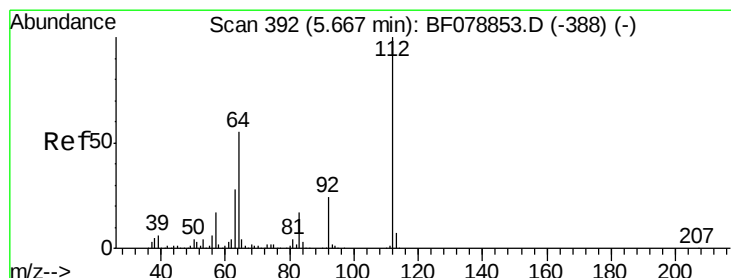
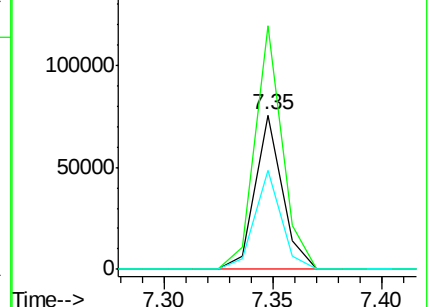
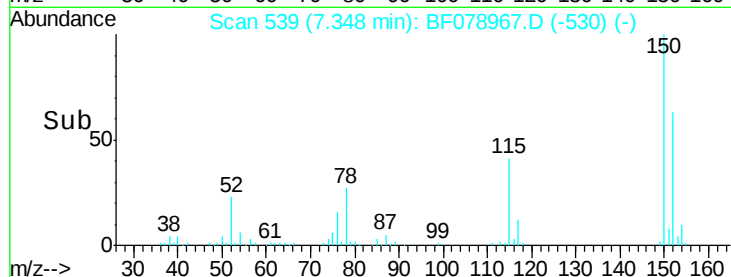
115 64.4 46.3 69.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol

Concen: 22.26 ng

RT: 5.64 min Scan# 390

Delta R.T. 0.01 min

Lab File: BF078967.D

Acq: 6 May 2015 18:28

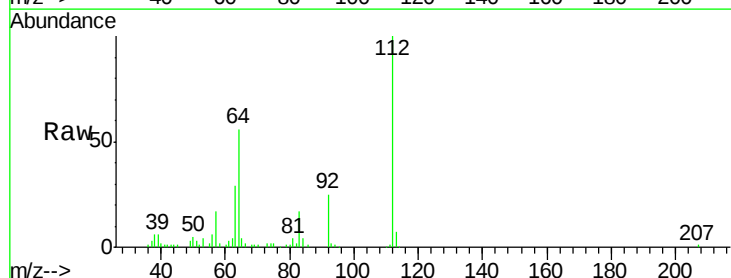
Tgt Ion:112 Resp: 85409

Ion Ratio Lower Upper

112 100

64 55.6 53.5 80.3

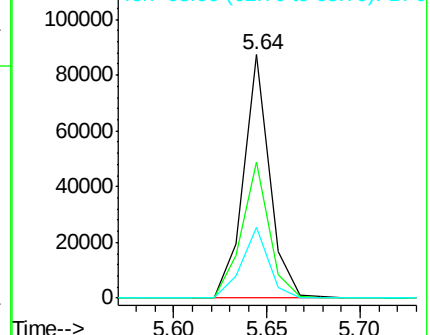
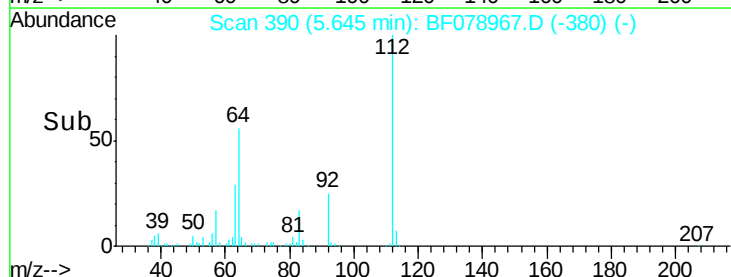
63 29.3 27.5 41.3



Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 30.84 ng

RT: 6.90 min Scan# 500

Delta R.T. 0.01 min

Lab File: BF078967.D

Acq: 6 May 2015 18:28

Instrument :

BNA\_F

ClientSampleId :

GRID-4(6-12)

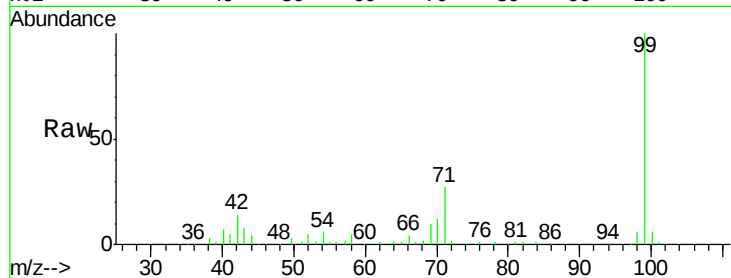
Tgt Ion: 99 Resp: 156411

Ion Ratio Lower Upper

99 100

42 13.8 12.8 19.2

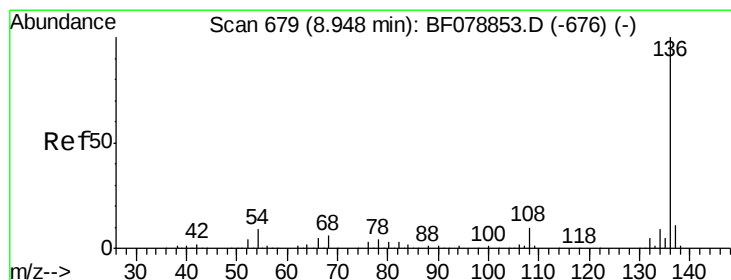
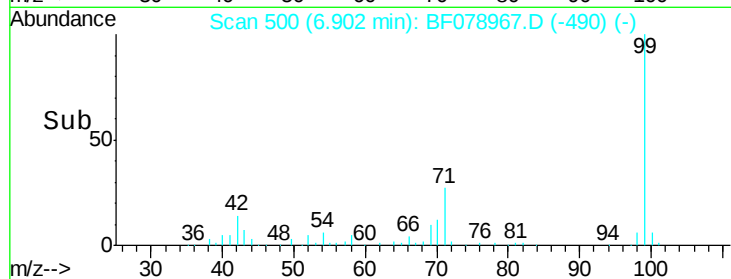
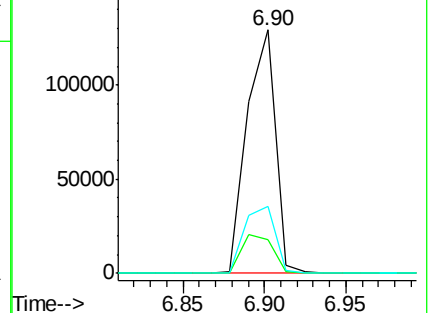
71 27.3 23.4 35.2



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.92 min Scan# 677

Delta R.T. 0.00 min

Lab File: BF078967.D

Acq: 6 May 2015 18:28

Tgt Ion: 136 Resp: 285597

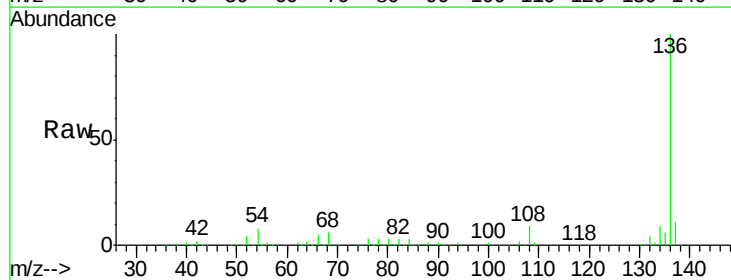
Ion Ratio Lower Upper

136 100

137 11.0 8.7 13.1

54 7.5 5.8 8.8

68 5.9 4.2 6.4

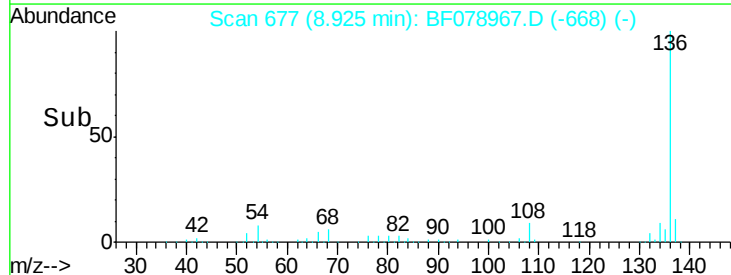
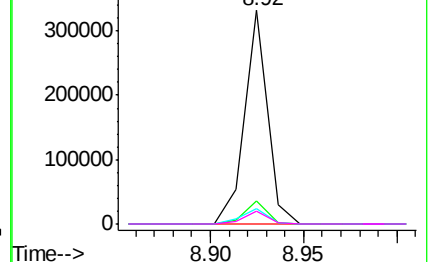


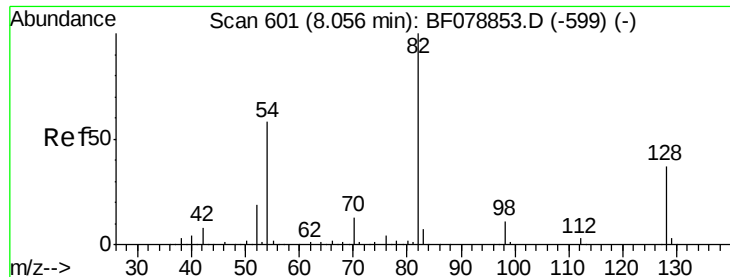
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

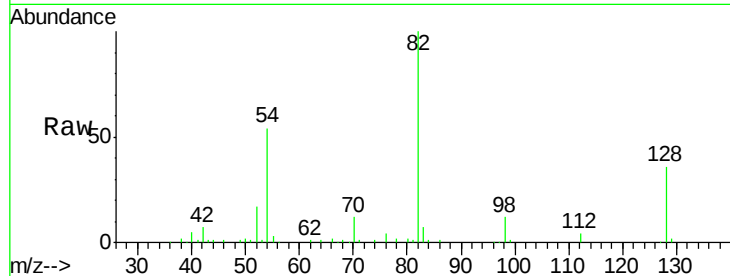




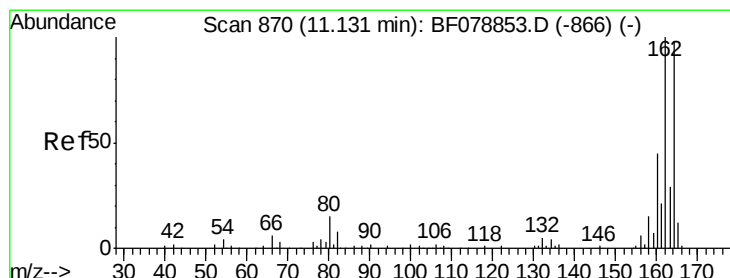
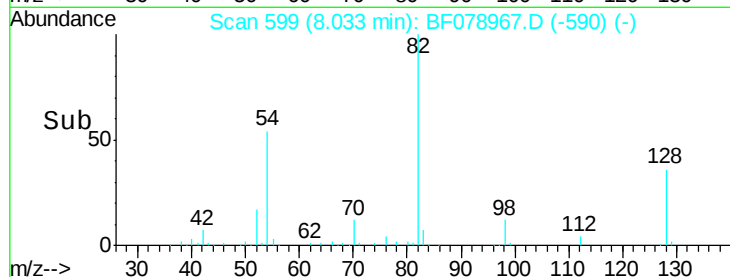
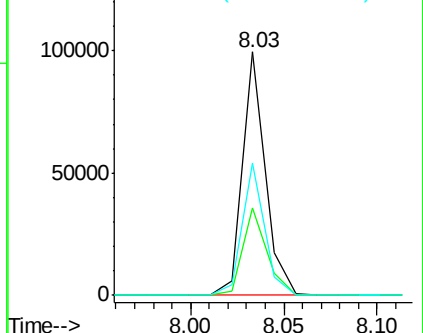
#23  
 Nitrobenzene-d5  
 Concen: 17.05 ng  
 RT: 8.03 min Scan# 599  
 Delta R.T. 0.00 min  
 Lab File: BF078967.D  
 Acq: 6 May 2015 18:28

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GRID-4(6-12)

Tgt Ion: 82 Resp: 84719  
 Ion Ratio Lower Upper  
 82 100  
 128 35.8 30.0 45.0  
 54 54.2 46.4 69.6

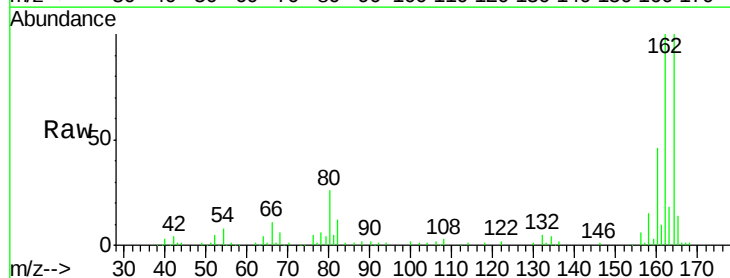


Abundance Ion 82.00 (81.70 to 82.70): BF0  
 Ion 128.00 (127.70 to 128.70): E  
 Ion 54.00 (53.70 to 54.70): BF0

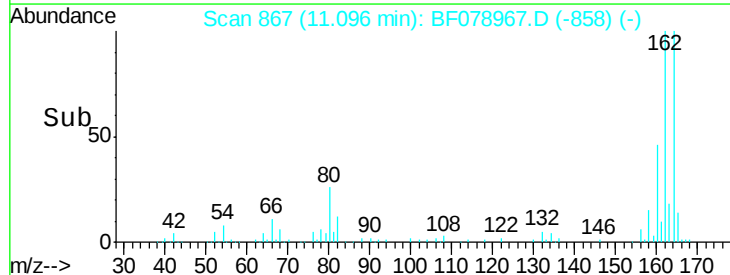
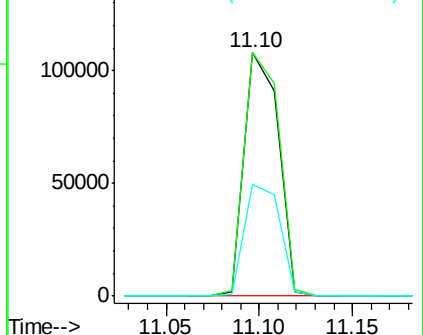


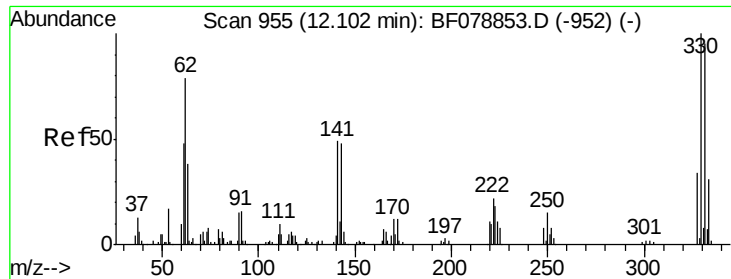
#38  
 Acenaphthene-d10  
 Concen: 20.00 ng  
 RT: 11.10 min Scan# 867  
 Delta R.T. 0.00 min  
 Lab File: BF078967.D  
 Acq: 6 May 2015 18:28

Tgt Ion: 164 Resp: 139068  
 Ion Ratio Lower Upper  
 164 100  
 162 100.1 82.7 124.1  
 160 46.0 35.8 53.8



Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

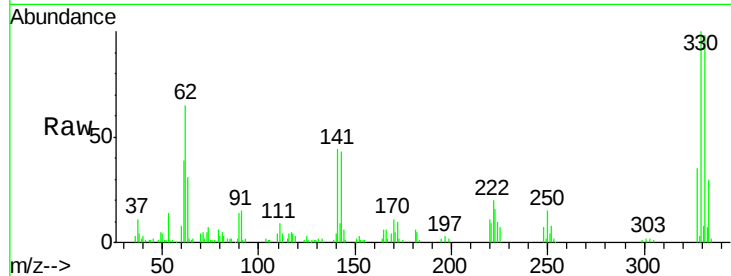




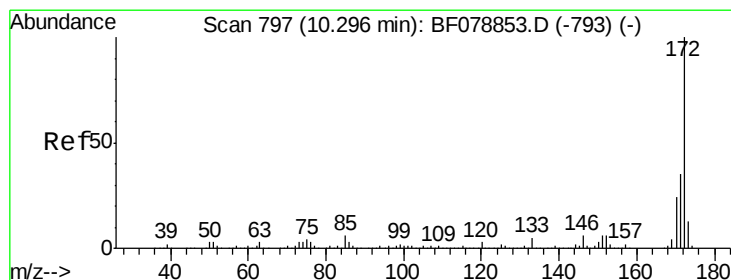
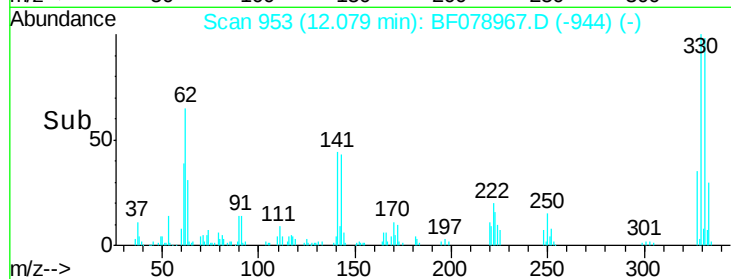
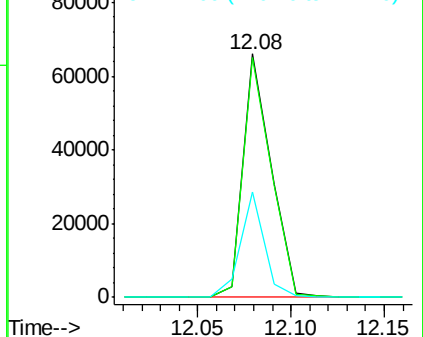
#41  
 2,4,6-Tribromophenol  
 Concen: 46.03 ng  
 RT: 12.08 min Scan# 953  
 Delta R.T. 0.00 min  
 Lab File: BF078967.D  
 Acq: 6 May 2015 18:28

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GRID-4(6-12)

Tgt Ion:330 Resp: 69248  
 Ion Ratio Lower Upper  
 330 100  
 332 98.7 0.0 0.0#  
 141 37.5 0.0 0.0#

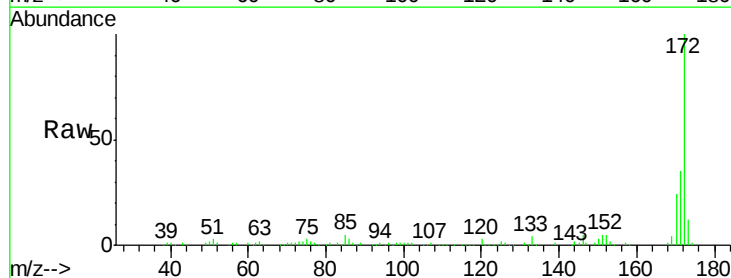


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

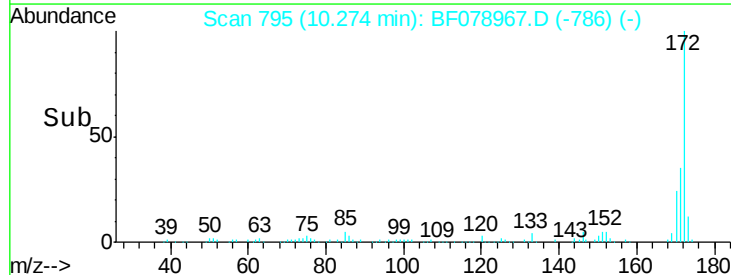
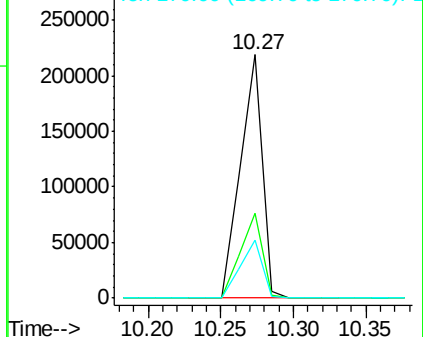


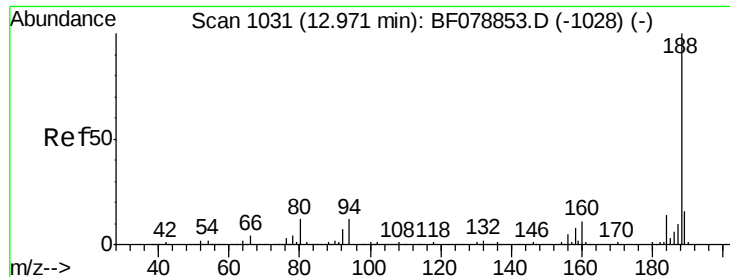
#44  
 2-Fluorobiphenyl  
 Concen: 23.01 ng  
 RT: 10.27 min Scan# 795  
 Delta R.T. 0.00 min  
 Lab File: BF078967.D  
 Acq: 6 May 2015 18:28

Tgt Ion:172 Resp: 229644  
 Ion Ratio Lower Upper  
 172 100  
 171 35.1 27.9 41.9  
 170 23.6 19.4 29.0



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

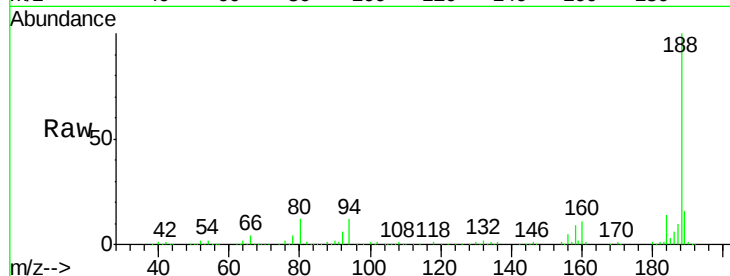




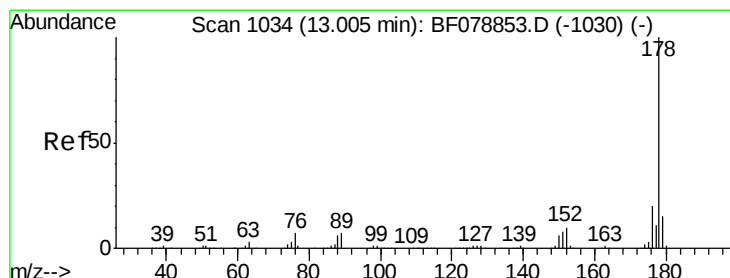
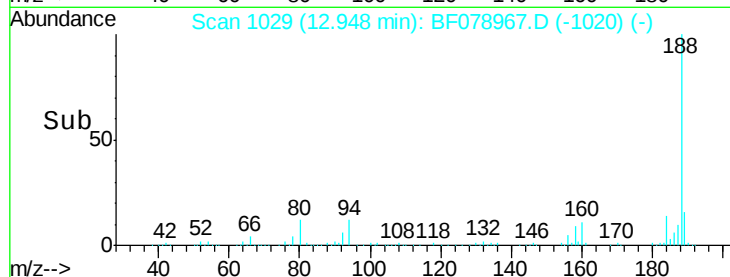
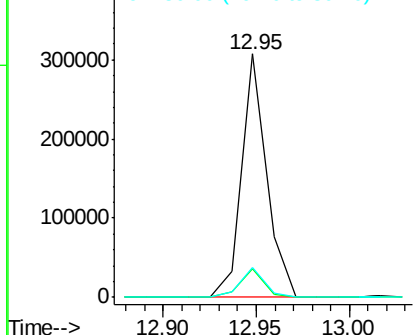
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 12.95 min Scan# 1029  
Delta R.T. 0.00 min  
Lab File: BF078967.D  
Acq: 6 May 2015 18:28

Instrument :  
BNA\_F  
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GRID-4(6-12)

Tgt Ion:188 Resp: 287122  
Ion Ratio Lower Upper  
188 100  
94 11.7 8.2 12.2  
80 12.2 8.9 13.3

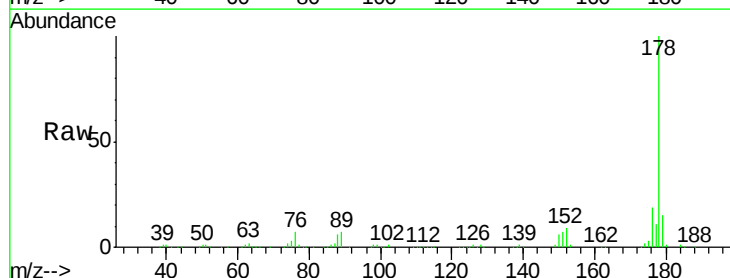


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

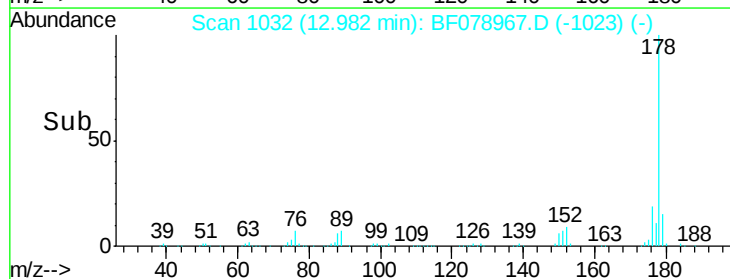
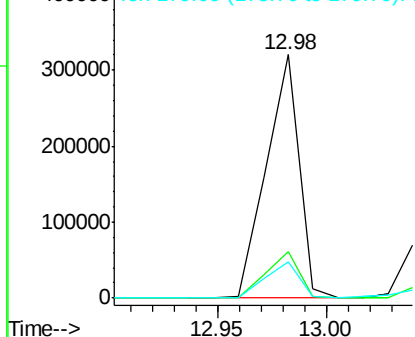


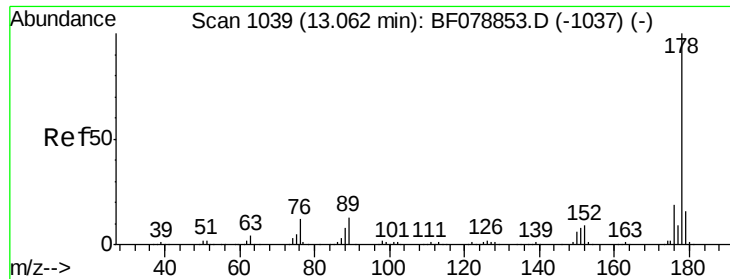
#70  
Phenanthrene  
Concen: 21.12 ng  
RT: 12.98 min Scan# 1032  
Delta R.T. 0.00 min  
Lab File: BF078967.D  
Acq: 6 May 2015 18:28

Tgt Ion:178 Resp: 339188  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.8 23.8  
179 14.9 12.5 18.7



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E

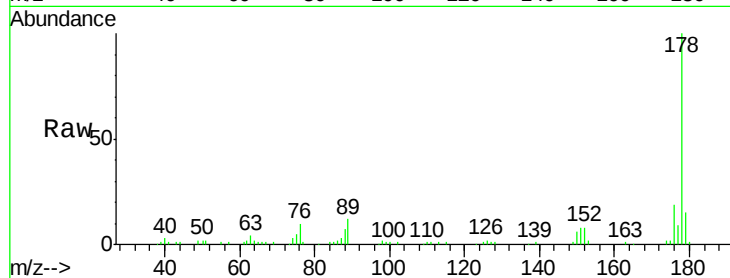




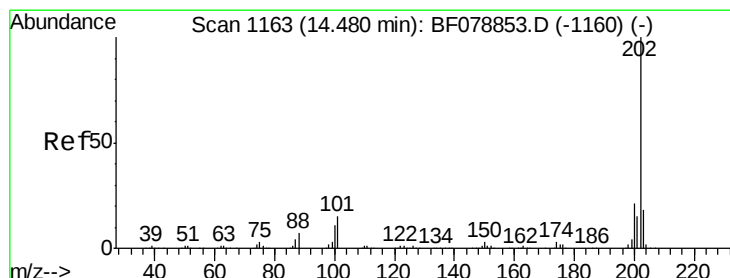
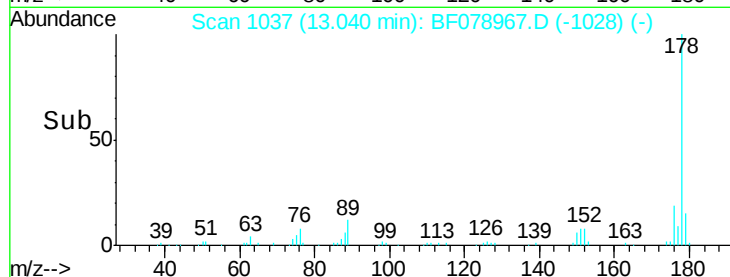
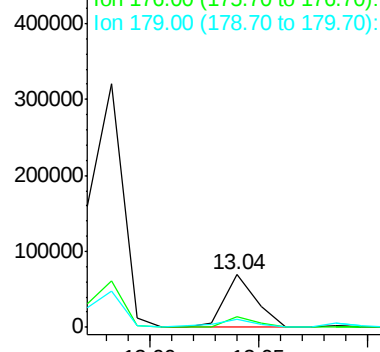
#71  
 Anthracene  
 Concen: 4.44 ng  
 RT: 13.04 min Scan# 1037  
 Delta R.T. 0.00 min  
 Lab File: BF078967.D  
 Acq: 6 May 2015 18:28

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GRID-4(6-12)

Tgt Ion:178 Resp: 69978  
 Ion Ratio Lower Upper  
 178 100  
 176 19.4 15.5 23.3  
 179 14.8 12.7 19.1

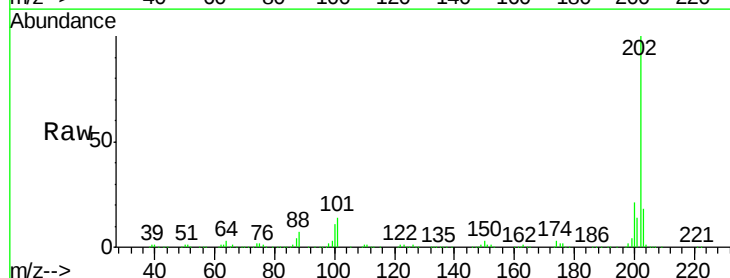


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

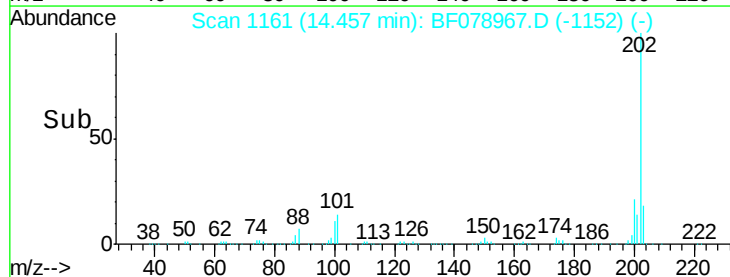
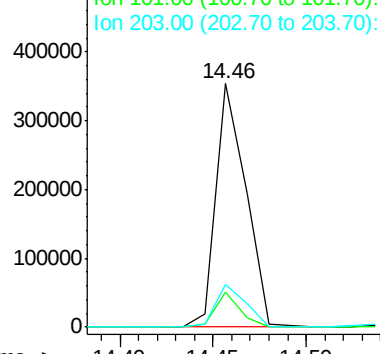


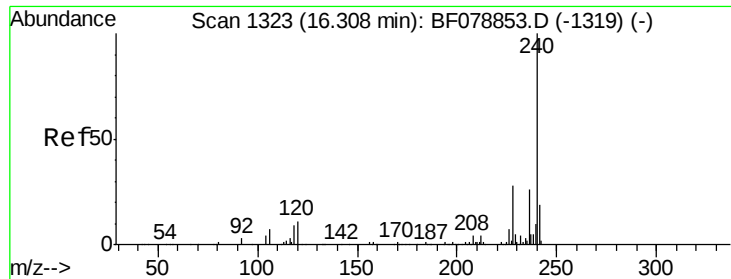
#74  
 Fluoranthene  
 Concen: 23.49 ng  
 RT: 14.46 min Scan# 1161  
 Delta R.T. 0.00 min  
 Lab File: BF078967.D  
 Acq: 6 May 2015 18:28

Tgt Ion:202 Resp: 393166  
 Ion Ratio Lower Upper  
 202 100  
 101 14.5 0.0 34.6  
 203 17.6 0.0 38.4



Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 16.25 min Scan# 1318

Delta R.T. -0.06 min

Lab File: BF078967.D

Acq: 6 May 2015 18:28

Instrument :

BNA\_F

ClientSampleId :

GRID-4(6-12)

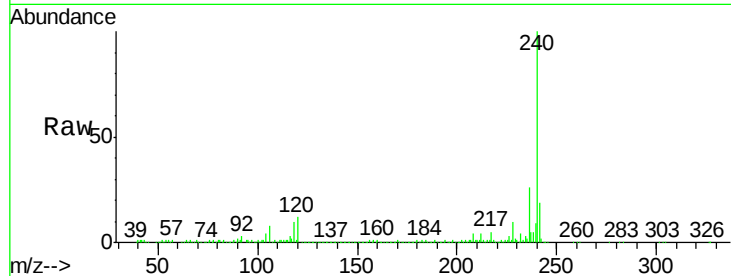
Tgt Ion: 240 Resp: 334606

Ion Ratio Lower Upper

240 100

120 11.7 9.7 14.5

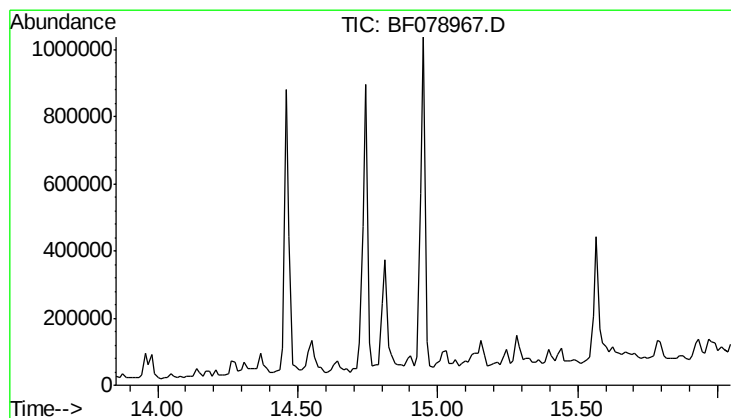
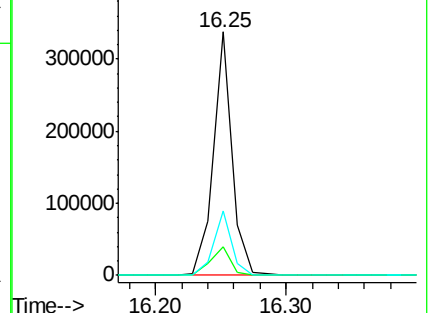
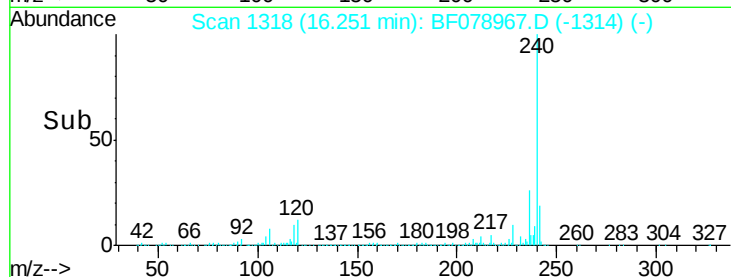
236 26.4 20.2 30.4



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78

Terphenyl-d14

Concen: 0.00 ng

Expected RT: 14.95 min

Lab File: BF078967.D

Acq: 6 May 2015 18:28

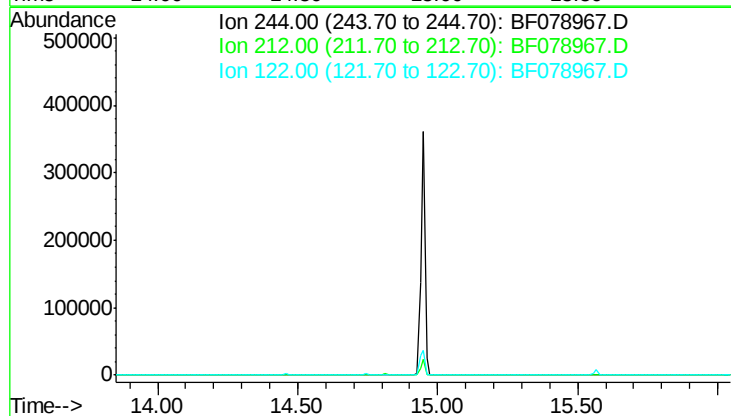
Tgt Ion: 244

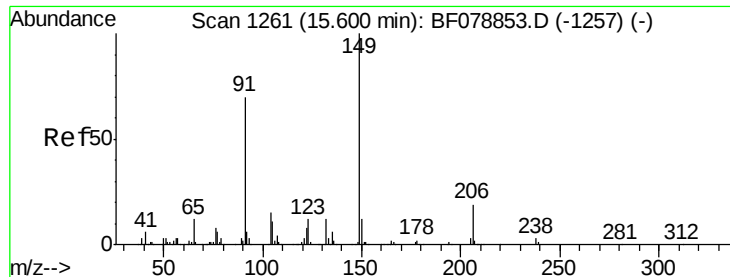
Sig Exp Ratio

244 100

212 7.0

122 12.9

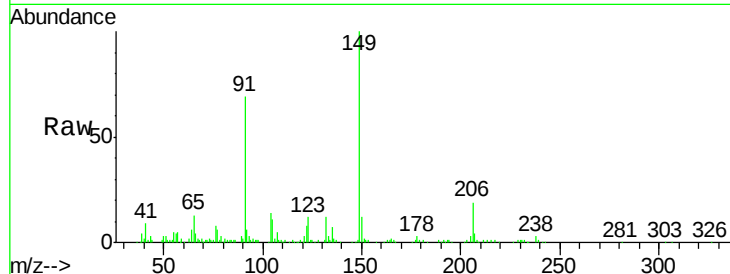




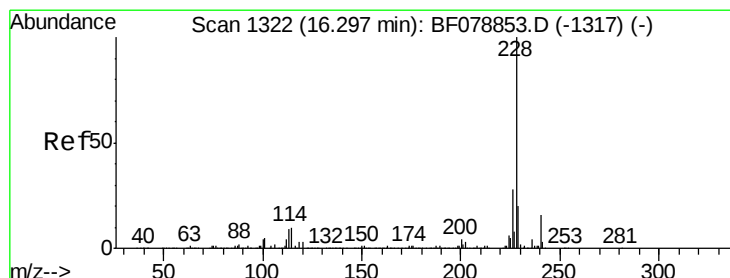
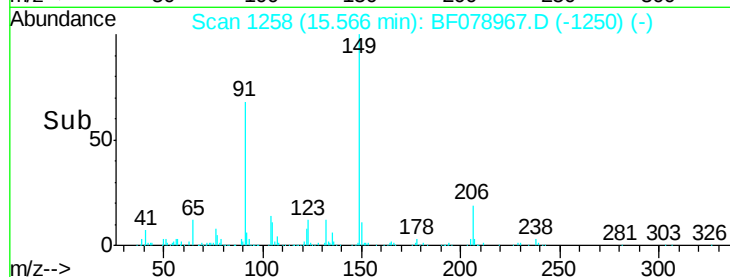
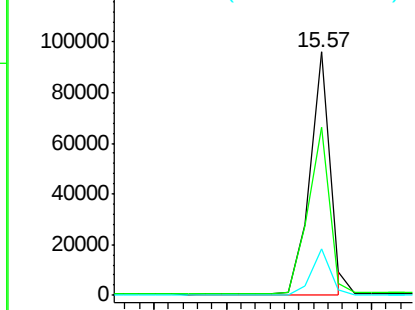
#79  
Butylbenzylphthalate  
Concen: 10.83 ng  
RT: 15.57 min Scan# 1258  
Delta R.T. -0.01 min  
Lab File: BF078967.D  
Acq: 6 May 2015 18:28

Instrument :  
BNA\_F  
ClientSampleId :  
GRID-4(6-12)

Tgt Ion:149 Resp: 91241  
Ion Ratio Lower Upper  
149 100  
91 68.9 64.6 97.0  
206 19.2 12.2 18.4#

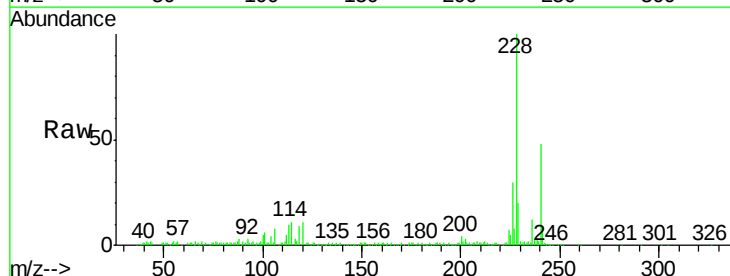


Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 91.00 (90.70 to 91.70): BF0  
Ion 206.00 (205.70 to 206.70): E

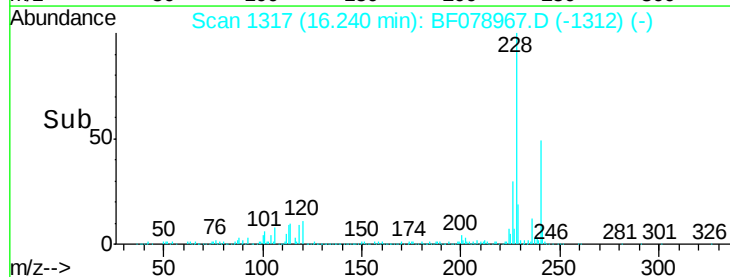
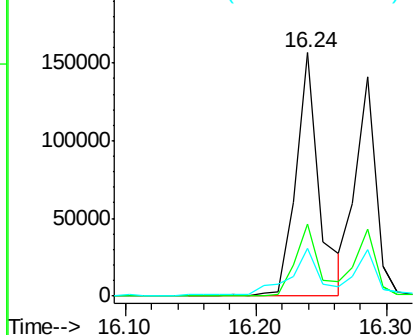


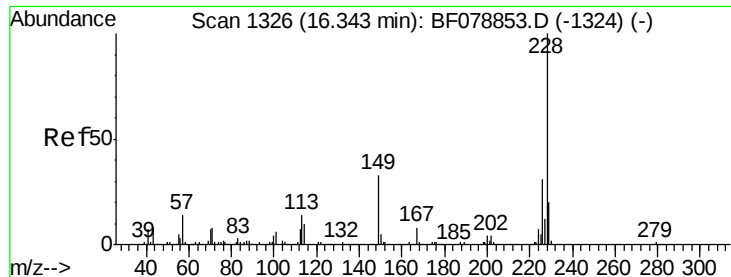
#80  
Benzo(a)anthracene  
Concen: 10.58 ng  
RT: 16.24 min Scan# 1317  
Delta R.T. -0.05 min  
Lab File: BF078967.D  
Acq: 6 May 2015 18:28

Tgt Ion:228 Resp: 193914  
Ion Ratio Lower Upper  
228 100  
226 29.9 22.6 33.8  
229 19.7 15.9 23.9



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





#82

Chrysene

Concen: 8.56 ng

RT: 16.29 min Scan# 1321

Delta R.T. -0.06 min

Lab File: BF078967.D

Acq: 6 May 2015 18:28

Instrument :

BNA\_F

ClientSampleId :

GRID-4(6-12)

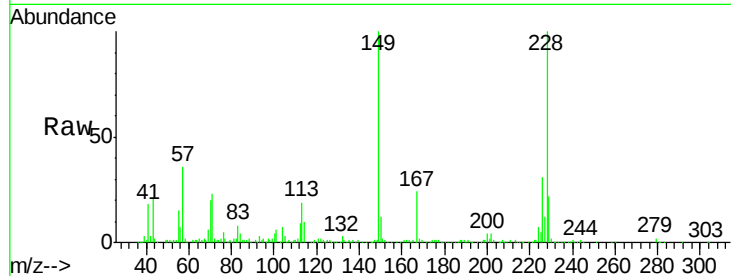
Tgt Ion:228 Resp: 150911

Ion Ratio Lower Upper

228 100

226 30.7 24.9 37.3

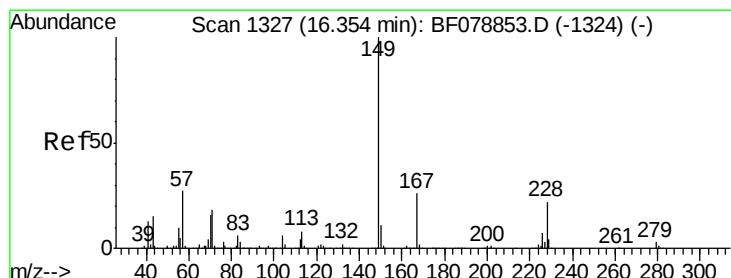
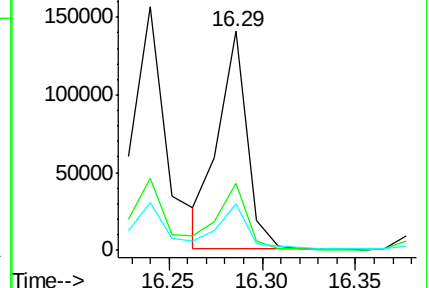
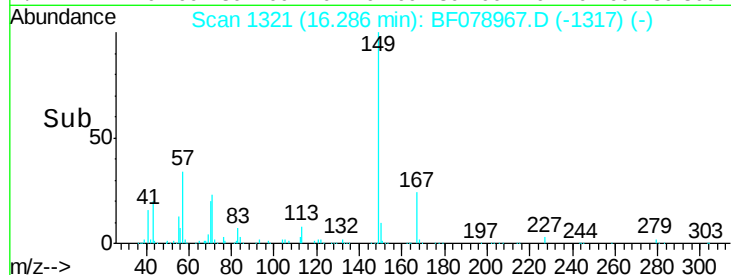
229 21.5 16.0 24.0



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 13.67 ng

RT: 16.29 min Scan# 1321

Delta R.T. -0.07 min

Lab File: BF078967.D

Acq: 6 May 2015 18:28

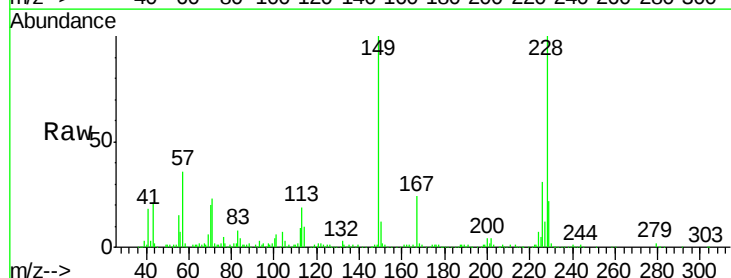
Tgt Ion:149 Resp: 174517

Ion Ratio Lower Upper

149 100

167 23.8 21.8 32.8

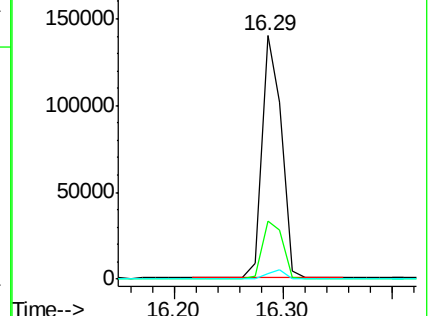
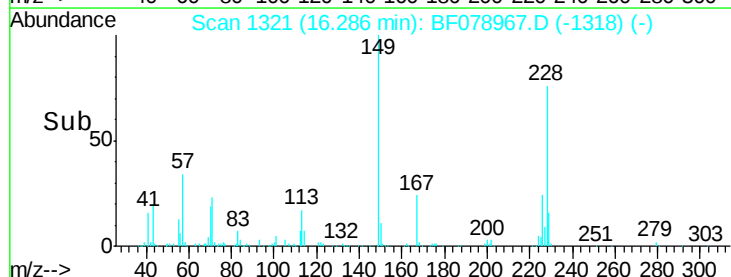
279 2.1 2.9 4.3#

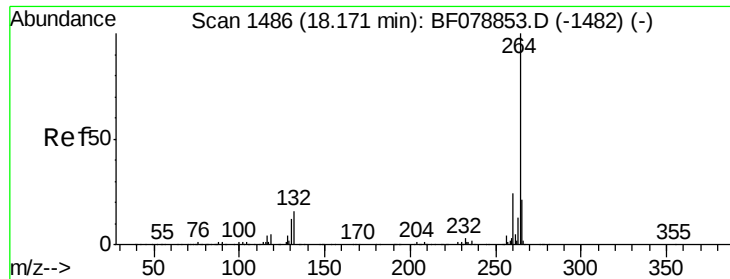


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

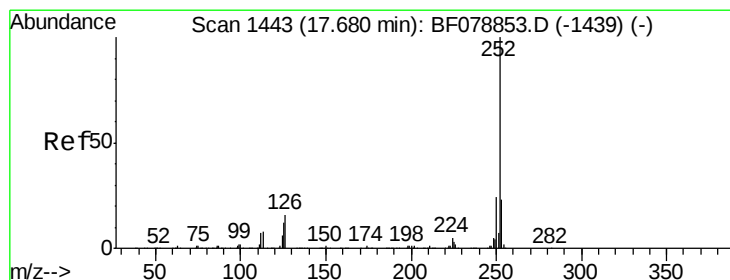
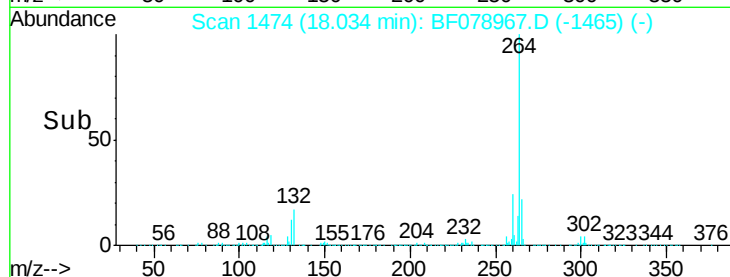
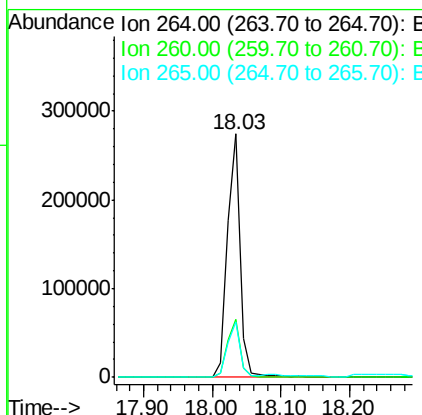
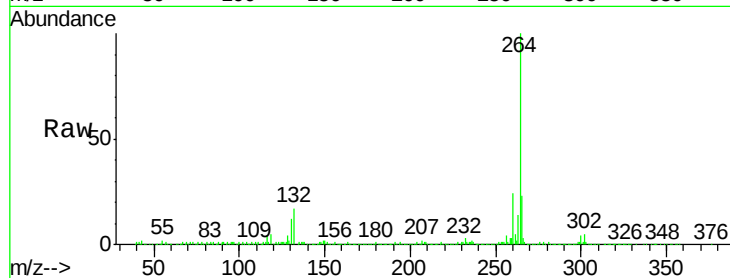




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 18.03 min Scan# 1474  
Delta R.T. -0.19 min  
Lab File: BF078967.D  
Acq: 6 May 2015 18:28

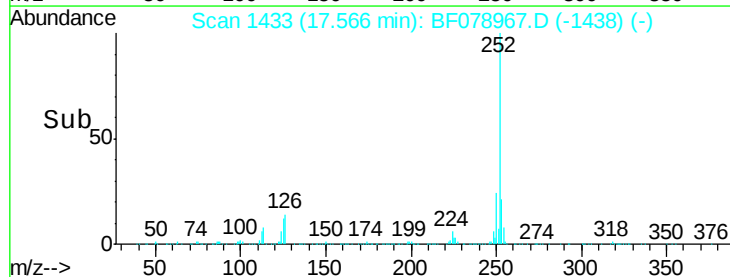
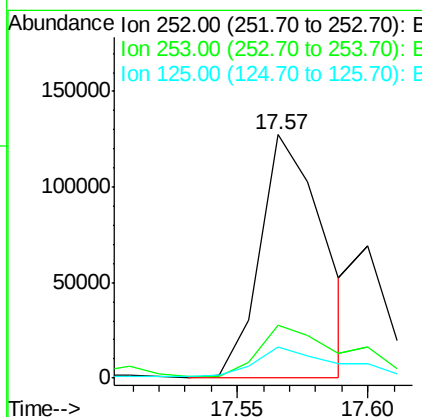
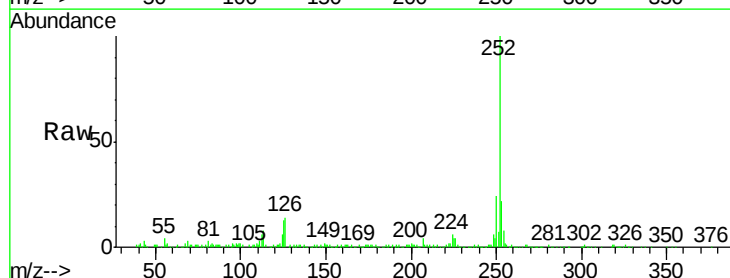
Instrument :  
BNA\_F  
ClientSampleId :  
GRID-4(6-12)

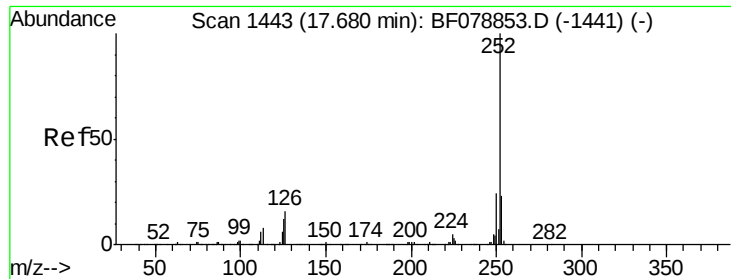
Tgt Ion:264 Resp: 365225  
Ion Ratio Lower Upper  
264 100  
260 23.8 19.4 29.2  
265 22.5 18.3 27.5



#87  
Benzo(b)fluoranthene  
Concen: 10.70 ng  
RT: 17.57 min Scan# 1433  
Delta R.T. -0.16 min  
Lab File: BF078967.D  
Acq: 6 May 2015 18:28

Tgt Ion:252 Resp: 213979  
Ion Ratio Lower Upper  
252 100  
253 21.9 17.7 26.5  
125 12.9 9.5 14.3

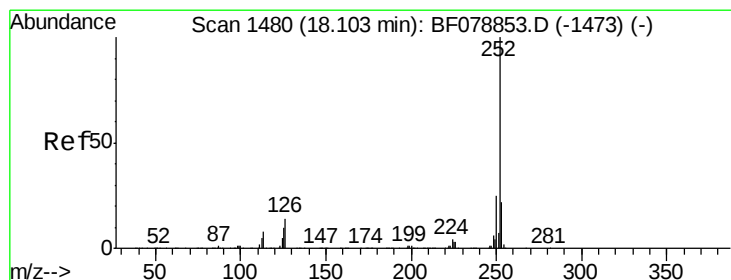
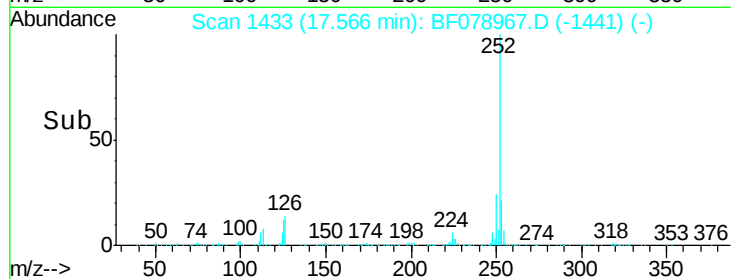
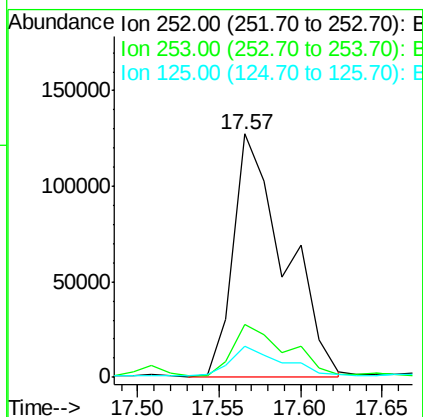
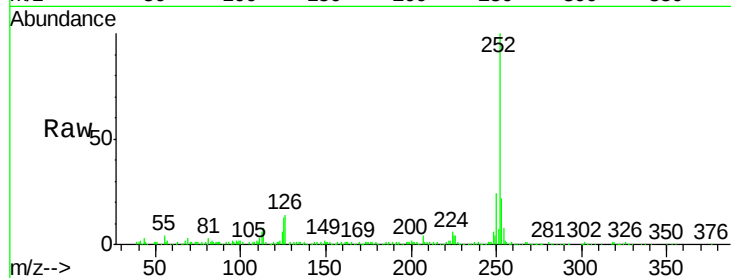




#88  
Benzo(k)fluoranthene  
Concen: 14.25 ng  
RT: 17.57 min Scan# 1433  
Delta R.T. -0.19 min  
Lab File: BF078967.D  
Acq: 6 May 2015 18:28

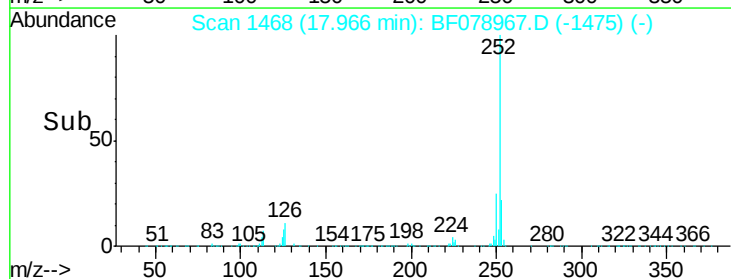
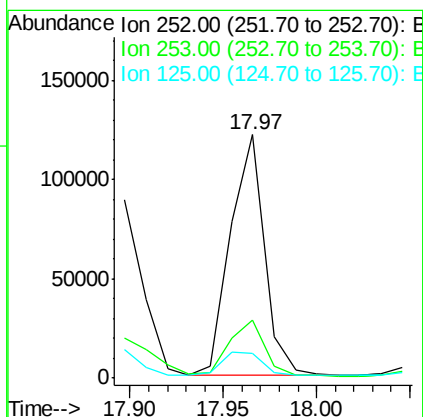
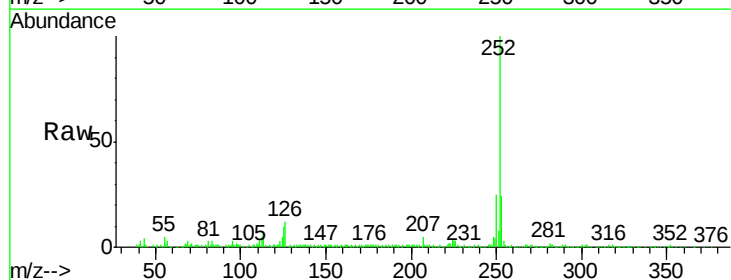
Instrument :  
BNA\_F  
ClientSampleId :  
GRID-4(6-12)

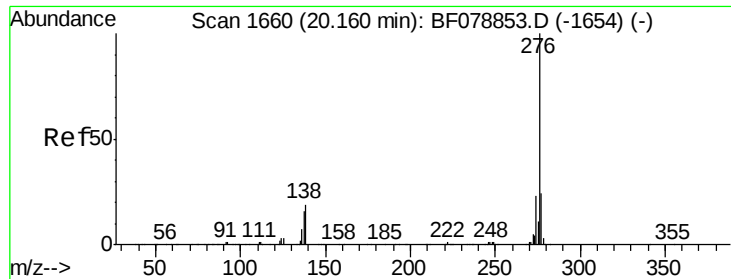
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.9  | 18.1  | 27.1  |
| 125     | 12.9  | 10.0  | 15.0  |



#89  
Benzo(a)pyrene  
Concen: 8.43 ng  
RT: 17.97 min Scan# 1468  
Delta R.T. -0.18 min  
Lab File: BF078967.D  
Acq: 6 May 2015 18:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 17.3  | 25.9  |
| 125     | 10.0  | 7.0   | 10.6  |





#91

Benzo(g,h,i)perylene

Concen: 5.14 ng

RT: 19.98 min Scan# 1644

Delta R.T. -0.23 min

Lab File: BF078967.D

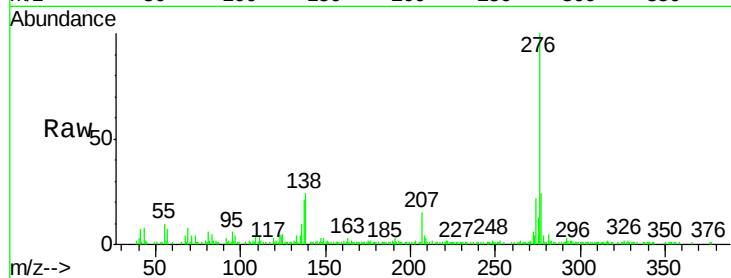
Acq: 6 May 2015 18:28

Instrument :

BNA\_F

ClientSampleId :

GRID-4(6-12)



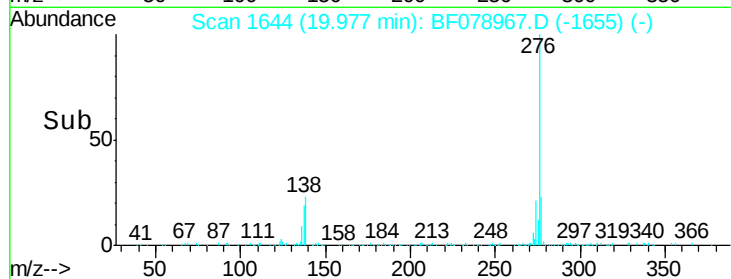
Tgt Ion: 276 Resp: 100711

Ion Ratio Lower Upper

276 100

277 24.3 18.6 28.0

138 24.1 17.4 26.0



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

