

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM102215\  
 Data File : BM002960.D  
 Acq On : 21 Oct 2015 22:49  
 Operator : UM/IZ  
 Sample : G4075-15  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 JG9J3

Quant Time: Oct 22 12:04:38 2015

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-SIM-BM102215.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Oct 21 16:23:48 2015

Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.66  | 152  | 5427     | 0.40 | ng/ul | 0.00     |
| 4) Naphthalene-d8         | 11.49 | 136  | 24990    | 0.40 | ng/ul | -0.01    |
| 8) Acenaphthene-d10       | 15.23 | 164  | 15063    | 0.40 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 18.03 | 188  | 1902049  | 0.40 | ng/ul | 0.08     |
| 18) Chrysene-d12          | 22.04 | 240  | 33038    | 0.40 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.61 | 264  | 33230    | 0.40 | ng/ul | -0.01    |

#### System Monitoring Compounds

|                            |       |     |       |      |       |      |
|----------------------------|-------|-----|-------|------|-------|------|
| 2) 1,4-Dioxane-d8          | 3.71  | 96  | 22534 | 3.89 | ng/uL | 0.00 |
| 6) 2-Methylnaphthalene-d10 | 13.05 | 152 | 10204 | 0.24 | ng/ul | 0.00 |
| 16) Fluoranthene-d10       | 19.93 | 212 | 23339 | 0.00 | ng/ul | 0.00 |

#### Target Compounds

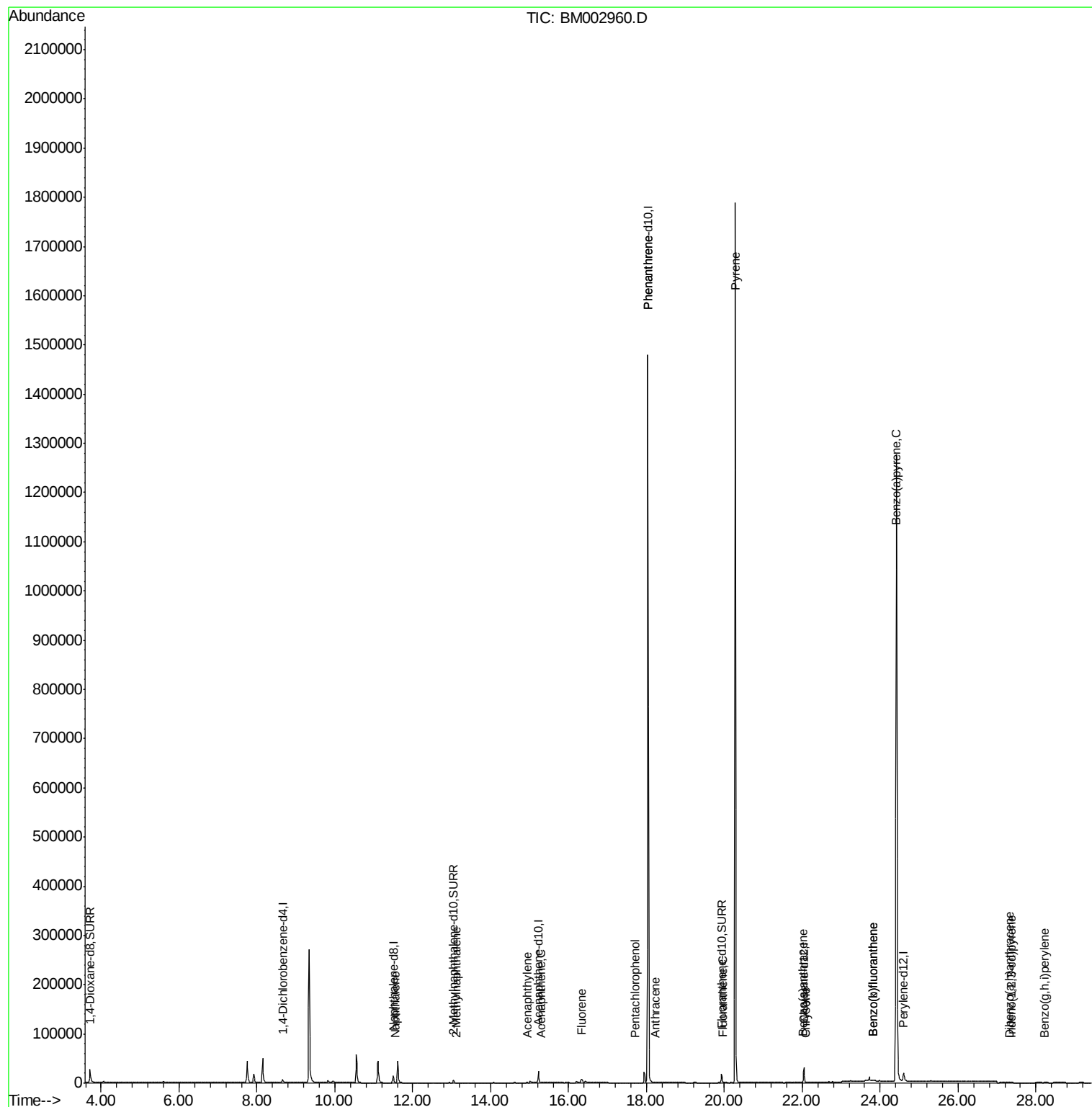
|                            |       |     |      |      |        | Qvalue |
|----------------------------|-------|-----|------|------|--------|--------|
| 5) Naphthalene             | 11.54 | 128 | 258  | 0.00 | ng/ul# | 8      |
| 7) 2-Methylnaphthalene     | 13.12 | 142 | 307  | 0.01 | ng/ul# | 1      |
| 9) Acenaphthylene          | 14.93 | 152 | 215  | 0.00 | ng/ul# | 1      |
| 10) Acenaphthene           | 15.30 | 153 | 73   | 0.00 | ng/ul# | 53     |
| 11) Fluorene               | 16.34 | 166 | 211  | 0.00 | ng/ul# | 1      |
| 13) Pentachlorophenol      | 17.71 | 266 | 4    | 0.00 | ng/ul# | 16     |
| 14) Phenanthrene           | 18.03 | 178 | 955  | 0.00 | ng/ul# | 1      |
| 15) Anthracene             | 18.22 | 178 | 52   | 0.00 | ng/ul# | 1      |
| 17) Fluoranthene           | 19.96 | 202 | 1747 | 0.00 | ng/ul  | 65     |
| 19) Pyrene                 | 20.28 | 202 | 4535 | 0.04 | ng/ul# | 1      |
| 20) Benzo(a)anthracene     | 22.02 | 228 | 822  | 0.01 | ng/ul# | 53     |
| 21) Chrysene               | 22.08 | 228 | 1205 | 0.01 | ng/ul# | 68     |
| 23) Benzo(b)fluoranthene   | 23.82 | 252 | 943  | 0.01 | ng/ul# | 1      |
| 24) Benzo(k)fluoranthene   | 23.82 | 252 | 943  | 0.01 | ng/ul# | 1      |
| 25) Benzo(a)pyrene         | 24.41 | 252 | 7881 | 0.07 | ng/ul# | 54     |
| 26) Indeno(1,2,3-cd)pyrene | 27.37 | 276 | 203  | 0.00 | ng/ul# | 79     |
| 27) Dibenzo(a,h)anthracene | 27.32 | 278 | 96   | 0.00 | ng/ul# | 1      |
| 28) Benzo(g,h,i)perylene   | 28.22 | 276 | 246  | 0.00 | ng/ul# | 1      |

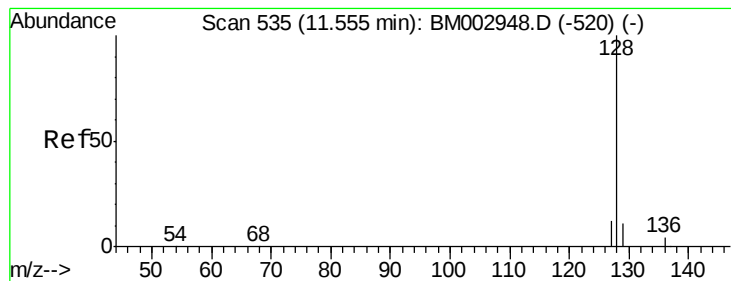
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-SIM-BM102215.M  
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QLast Update : Wed Oct 21 16:23:48 2015  
Response via : Initial Calibration





#5

Naphthalene

Concen: 0.00 ng/ul

RT: 11.54 min Scan# 534

Delta R.T. -0.01 min

Lab File: BM002960.D

Acq: 21 Oct 2015 22:49

Instrument :

BNA\_M

ClientSampleId :

JG9J3

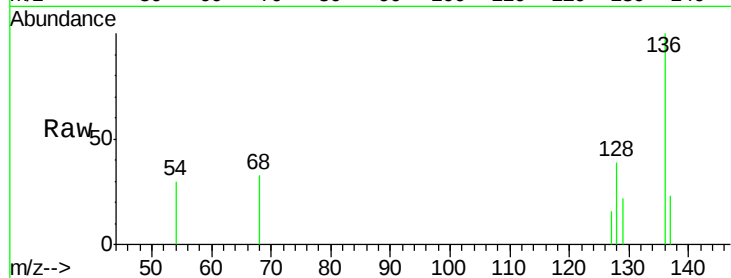
Tgt Ion:128 Resp: 258

Ion Ratio Lower Upper

128 100

129 57.8 9.8 14.8#

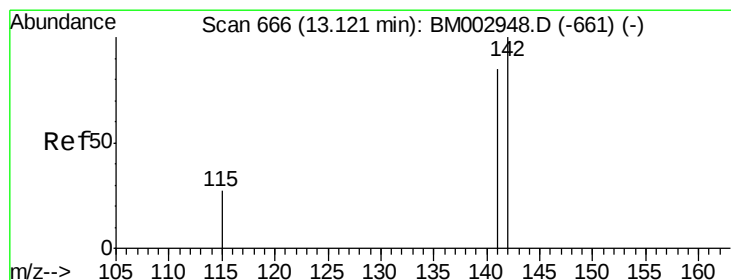
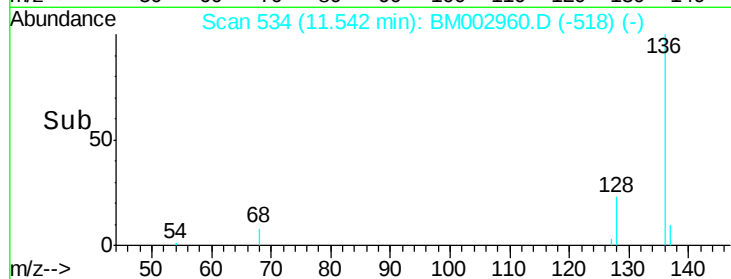
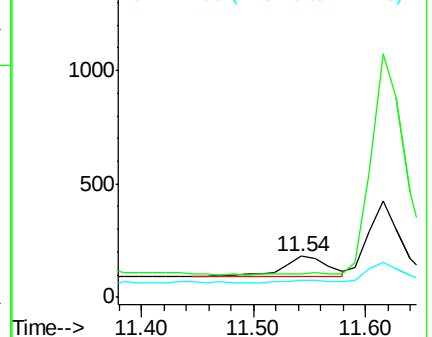
127 41.7 10.7 16.1#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#7

2-Methylnaphthalene

Concen: 0.01 ng/ul

RT: 13.12 min Scan# 666

Delta R.T. 0.00 min

Lab File: BM002960.D

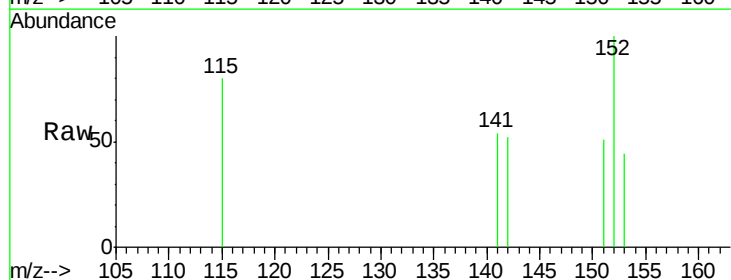
Acq: 21 Oct 2015 22:49

Tgt Ion:142 Resp: 307

Ion Ratio Lower Upper

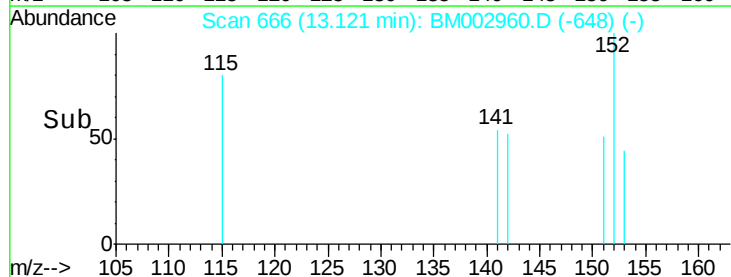
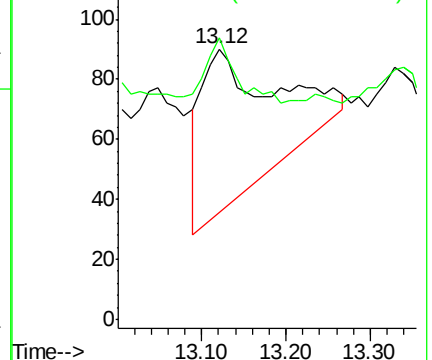
142 100

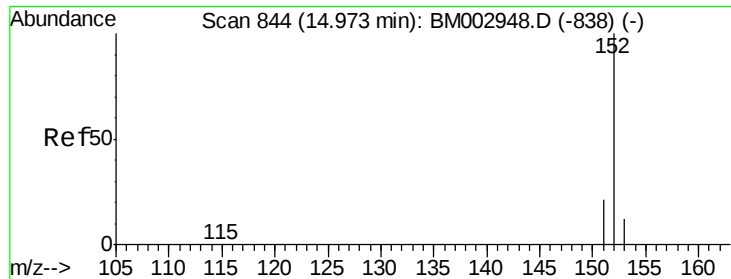
141 410.4 70.3 105.5#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#9

Acenaphthylene

Concen: 0.00 ng/ul

RT: 14.93 min Scan# 840

Delta R.T. -0.04 min

Lab File: BM002960.D

Acq: 21 Oct 2015 22:49

Instrument :

BNA\_M

ClientSampleId :

JG9J3

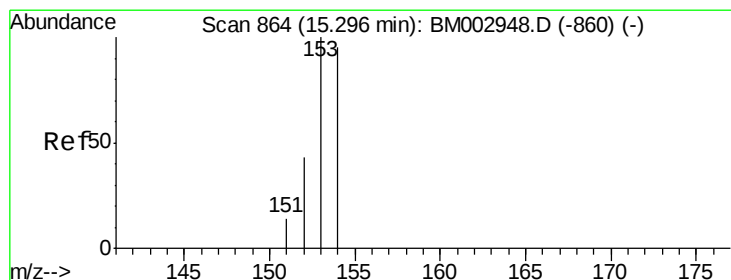
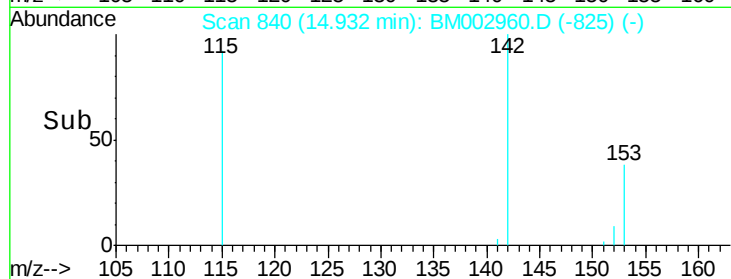
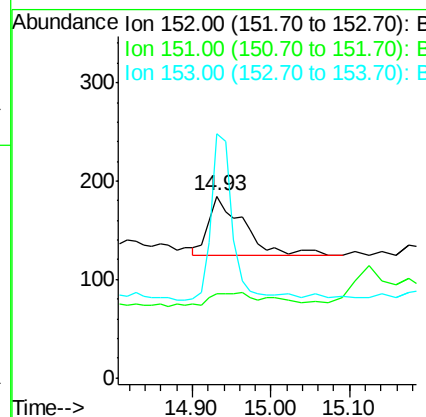
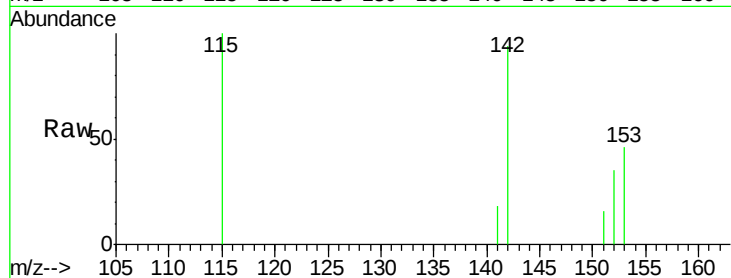
Tgt Ion:152 Resp: 215

Ion Ratio Lower Upper

152 100

151 46.5 16.8 25.2#

153 134.1 11.3 16.9#



#10

Acenaphthene

Concen: 0.00 ng/ul

RT: 15.30 min Scan# 864

Delta R.T. 0.00 min

Lab File: BM002960.D

Acq: 21 Oct 2015 22:49

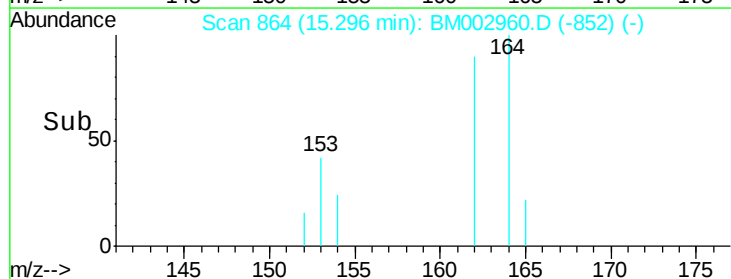
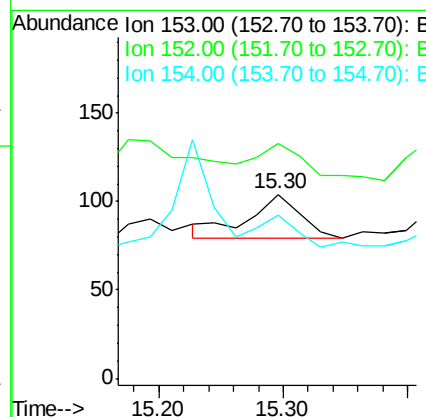
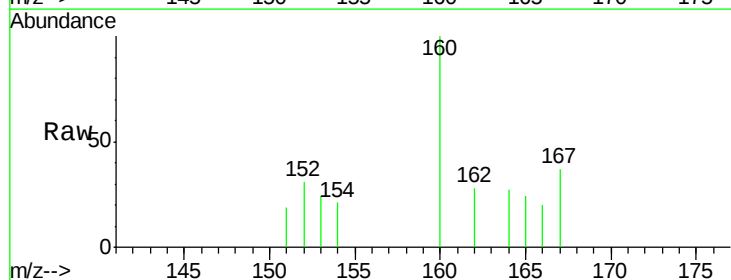
Tgt Ion:153 Resp: 73

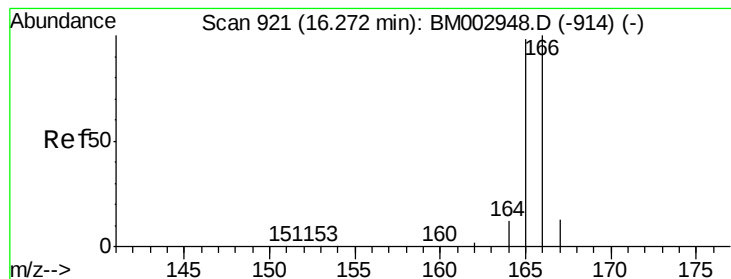
Ion Ratio Lower Upper

153 100

152 127.9 42.3 63.5#

154 88.5 64.7 97.1





#11

Fluorene

Concen: 0.00 ng/ul

RT: 16.34 min Scan# 925

Delta R.T. 0.07 min

Lab File: BM002960.D

Acq: 21 Oct 2015 22:49

Instrument :

BNA\_M

ClientSampled :

JG9J3

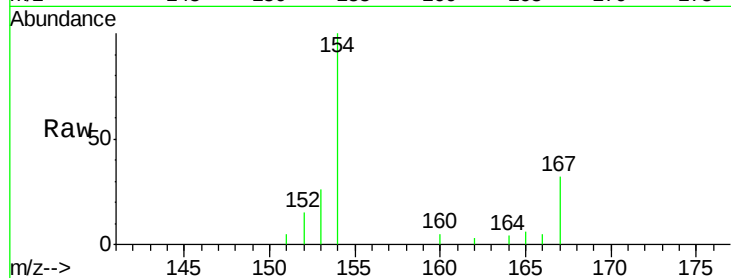
Tgt Ion:166 Resp: 211

Ion Ratio Lower Upper

166 100

165 127.8 87.6 131.4

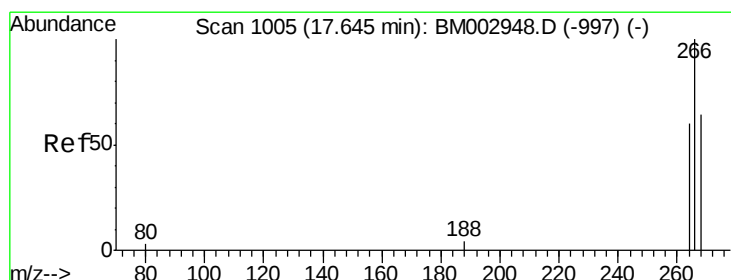
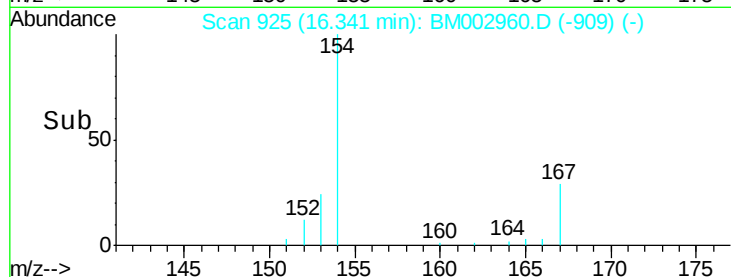
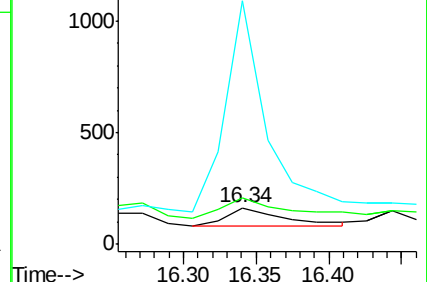
167 672.8 11.1 16.7#



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



#13

Pentachlorophenol

Concen: 0.00 ng/ul

RT: 17.71 min Scan# 1009

Delta R.T. 0.06 min

Lab File: BM002960.D

Acq: 21 Oct 2015 22:49

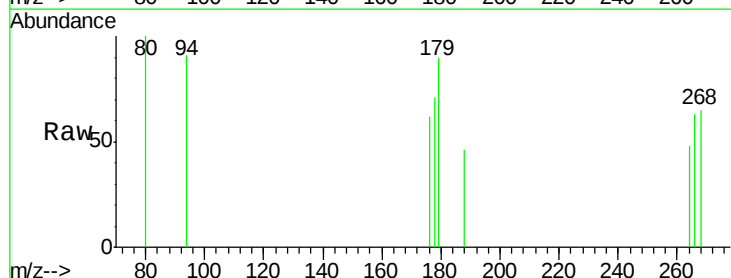
Tgt Ion:266 Resp: 4

Ion Ratio Lower Upper

266 100

264 0.0 53.5 80.3#

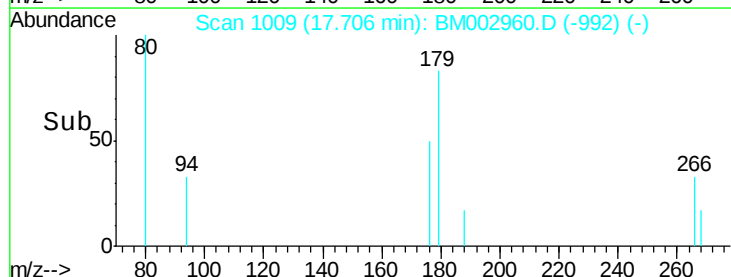
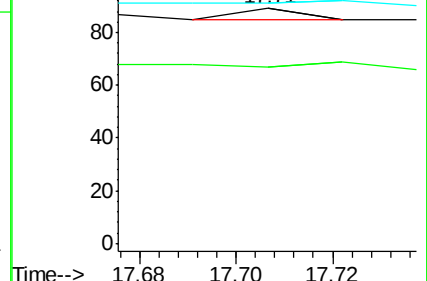
268 0.0 54.2 81.2#

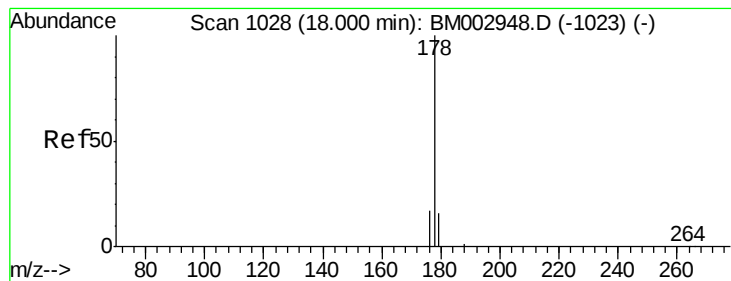


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#14

Phenanthrene

Concen: 0.00 ng/ul

RT: 18.03 min Scan# 1030

Delta R.T. 0.03 min

Lab File: BM002960.D

Acq: 21 Oct 2015 22:49

Instrument :

BNA\_M

ClientSampleId :

JG9J3

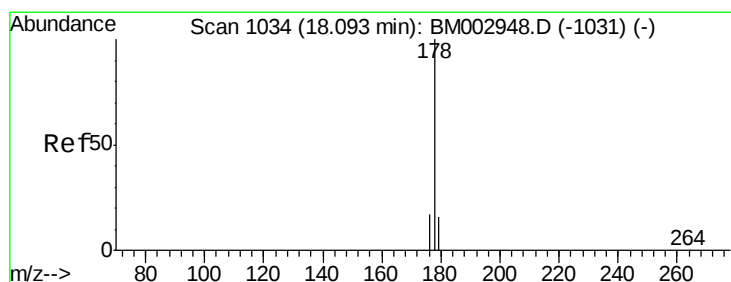
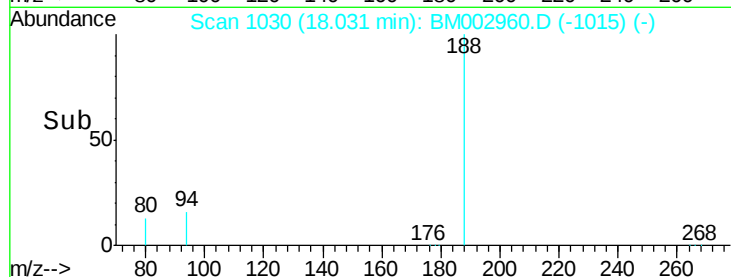
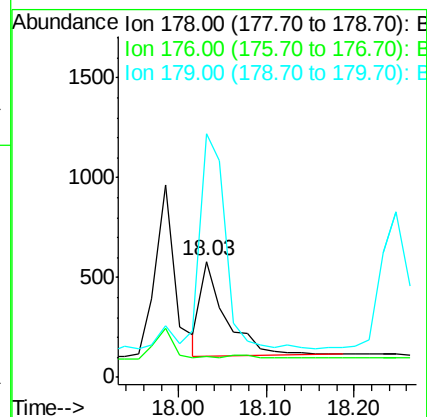
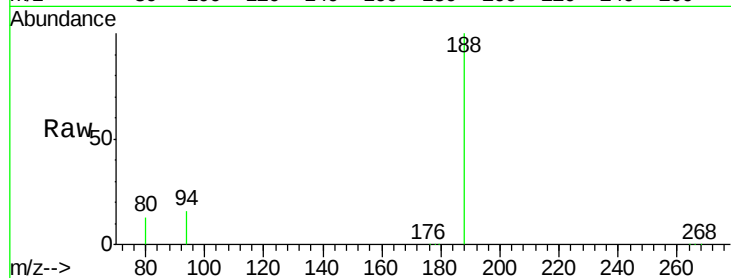
Tgt Ion:178 Resp: 955

Ion Ratio Lower Upper

178 100

176 17.8 16.2 24.4

179 210.7 12.8 19.2#



#15

Anthracene

Concen: 0.00 ng/ul

RT: 18.22 min Scan# 1042

Delta R.T. 0.12 min

Lab File: BM002960.D

Acq: 21 Oct 2015 22:49

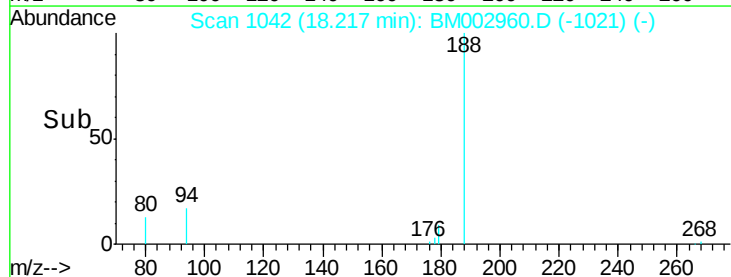
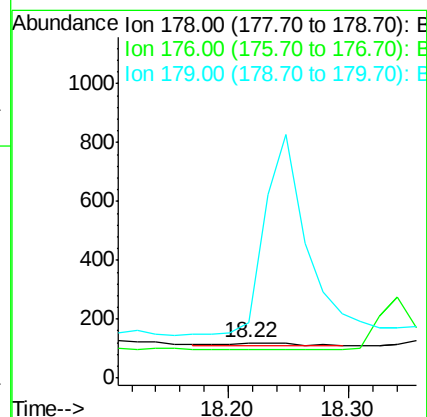
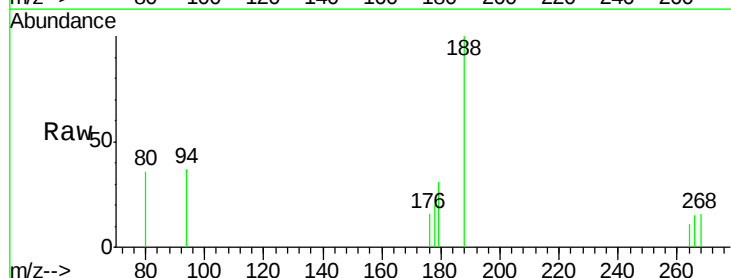
Tgt Ion:178 Resp: 52

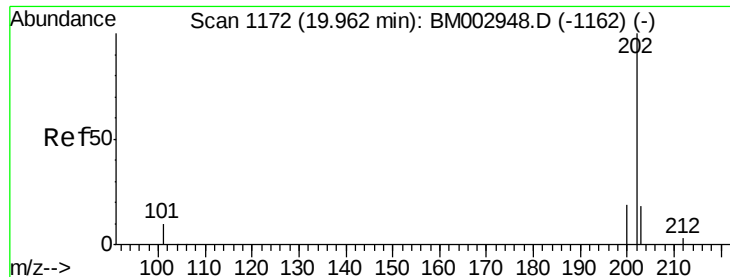
Ion Ratio Lower Upper

178 100

176 80.0 15.8 23.8#

179 157.5 13.3 19.9#

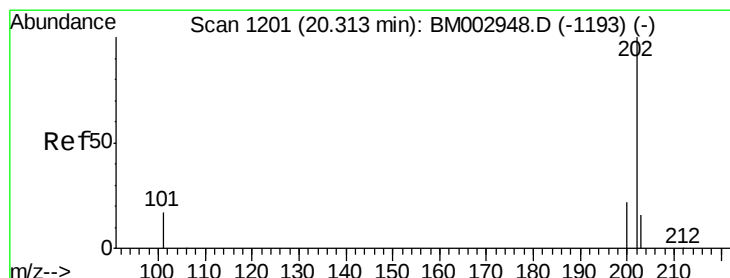
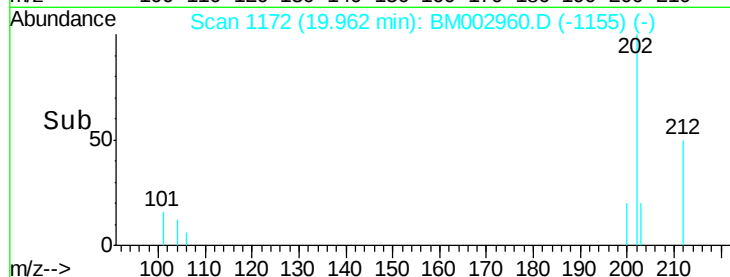
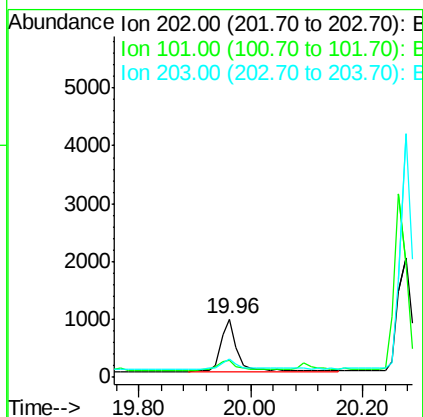
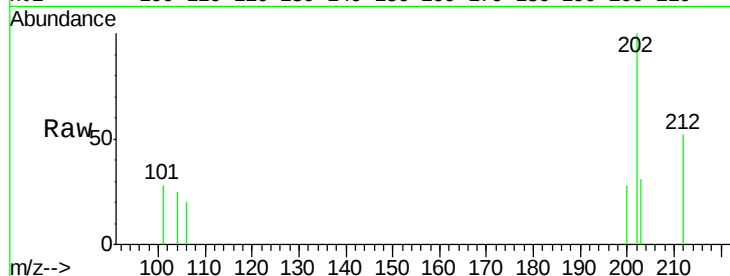




#17  
**Fluoranthene**  
 Concen: 0.00 ng/ul  
 RT: 19.96 min Scan# 1172  
 Delta R.T. 0.00 min  
 Lab File: BM002960.D  
 Acq: 21 Oct 2015 22:49

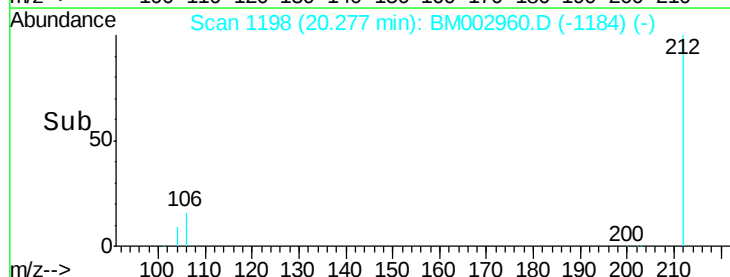
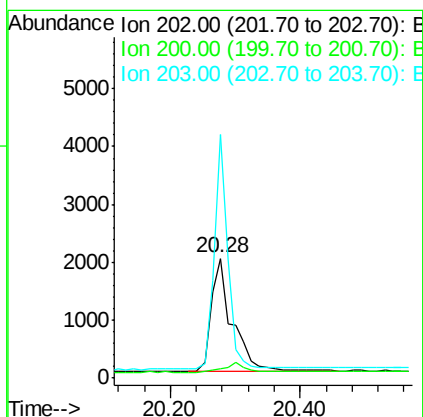
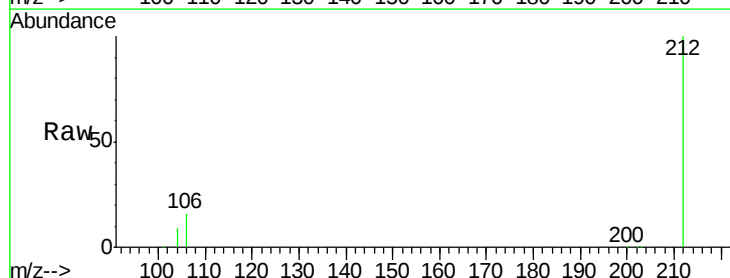
Instrument :  
 BNA\_M  
 ClientSampleId :  
 JG9J3

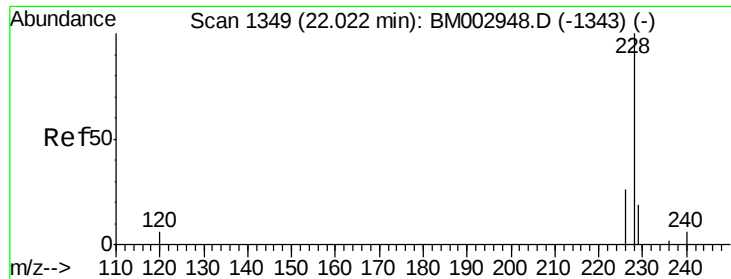
Tgt Ion:202 Resp: 1747  
 Ion Ratio Lower Upper  
 202 100  
 101 28.3 0.0 33.1  
 203 31.4 0.0 37.2



#19  
**Pyrene**  
 Concen: 0.04 ng/ul  
 RT: 20.28 min Scan# 1198  
 Delta R.T. -0.04 min  
 Lab File: BM002960.D  
 Acq: 21 Oct 2015 22:49

Tgt Ion:202 Resp: 4535  
 Ion Ratio Lower Upper  
 202 100  
 200 7.5 18.0 27.0#  
 203 202.7 13.8 20.6#





#20

Benzo(a)anthracene

Concen: 0.01 ng/ul

RT: 22.02 min Scan# 1349

Delta R.T. 0.00 min

Lab File: BM002960.D

Acq: 21 Oct 2015 22:49

Instrument :

BNA\_M

ClientSampleId :

JG9J3

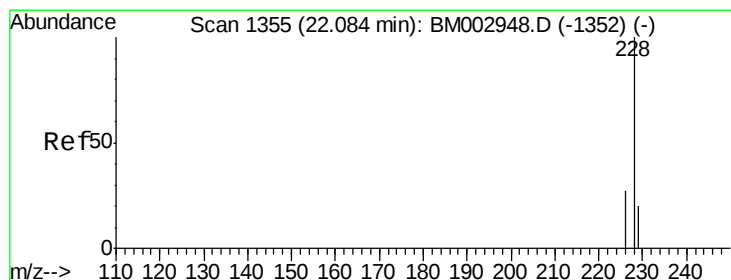
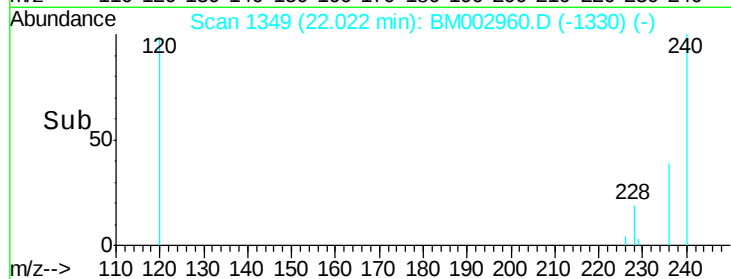
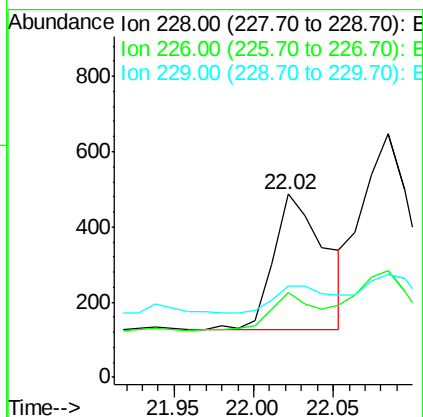
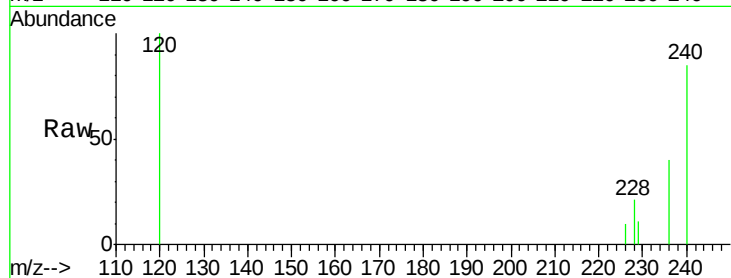
Tgt Ion:228 Resp: 822

Ion Ratio Lower Upper

228 100

226 46.2 23.0 34.4#

229 49.9 15.2 22.8#



#21

Chrysene

Concen: 0.01 ng/ul

RT: 22.08 min Scan# 1355

Delta R.T. 0.00 min

Lab File: BM002960.D

Acq: 21 Oct 2015 22:49

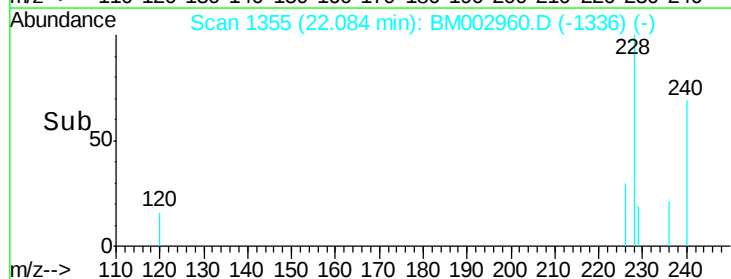
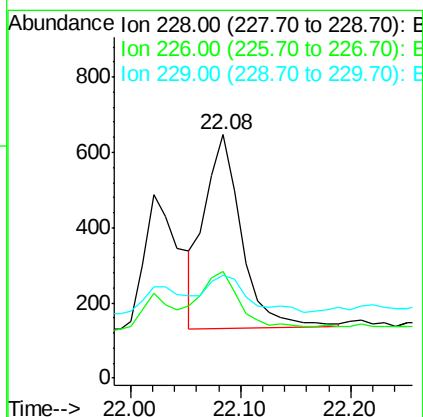
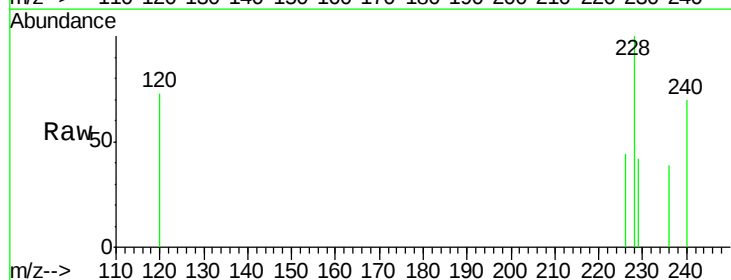
Tgt Ion:228 Resp: 1205

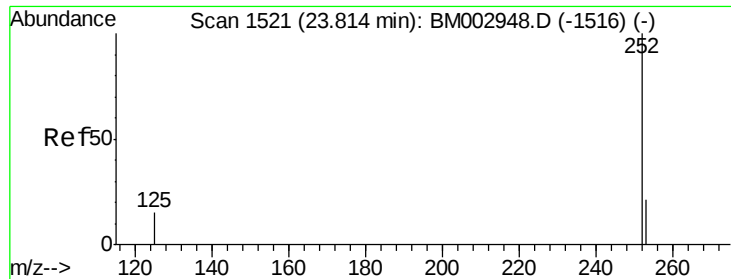
Ion Ratio Lower Upper

228 100

226 43.7 25.7 38.5#

229 42.2 15.2 22.8#





#23

Benzo(b)fluoranthene

Concen: 0.01 ng/ul

RT: 23.82 min Scan# 1522

Delta R.T. 0.01 min

Lab File: BM002960.D

Acq: 21 Oct 2015 22:49

Instrument :

BNA\_M

ClientSampleId :

JG9J3

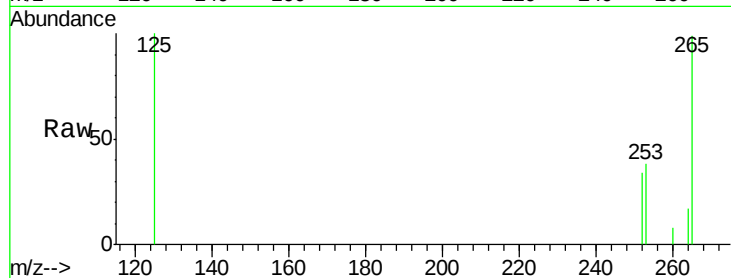
Tgt Ion:252 Resp: 943

Ion Ratio Lower Upper

252 100

253 110.3 0.0 48.0#

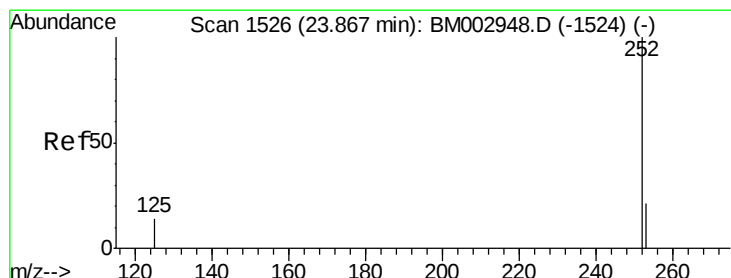
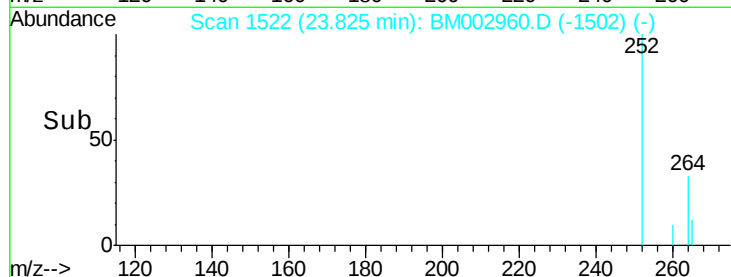
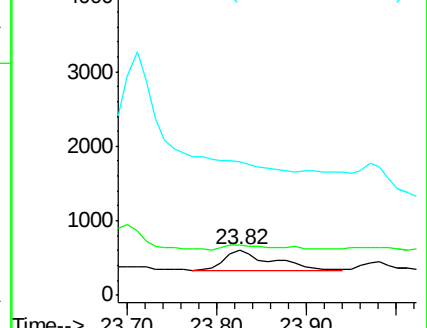
125 292.5 0.0 36.6#



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



#24

Benzo(k)fluoranthene

Concen: 0.01 ng/ul

RT: 23.82 min Scan# 1522

Delta R.T. -0.04 min

Lab File: BM002960.D

Acq: 21 Oct 2015 22:49

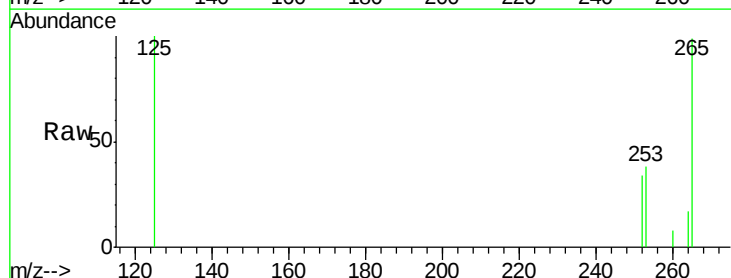
Tgt Ion:252 Resp: 943

Ion Ratio Lower Upper

252 100

253 110.3 20.8 31.2#

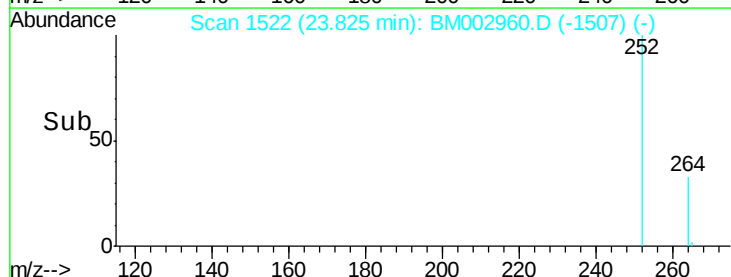
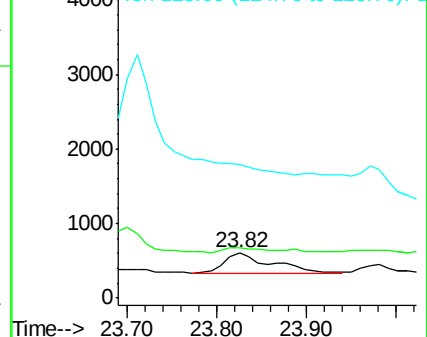
125 292.5 12.2 18.4#

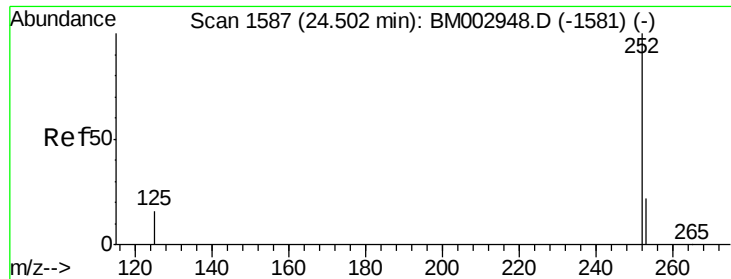


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 0.07 ng/u1

RT: 24.41 min Scan# 1578

Delta R.T. -0.09 min

Lab File: BM002960.D

Acq: 21 Oct 2015 22:49

Instrument :

BNA\_M

ClientSampleId :

JG9J3

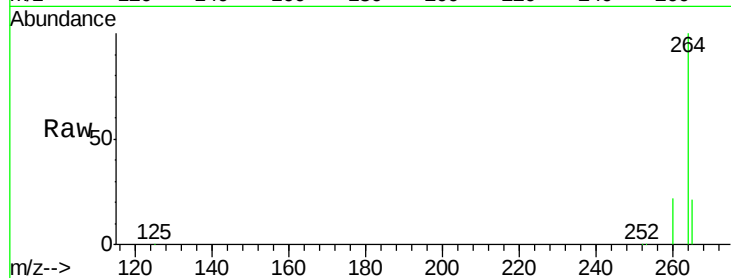
Tgt Ion:252 Resp: 7881

Ion Ratio Lower Upper

252 100

253 39.3 21.8 32.8#

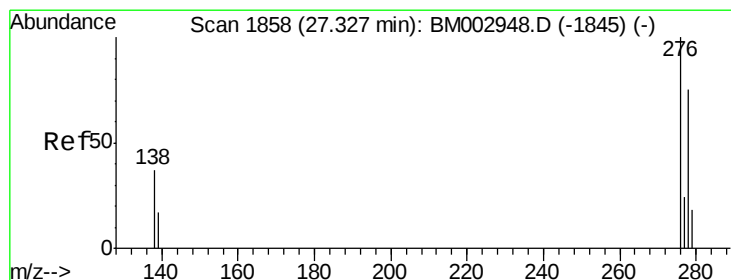
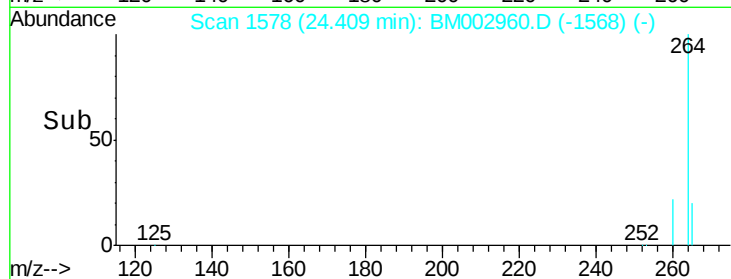
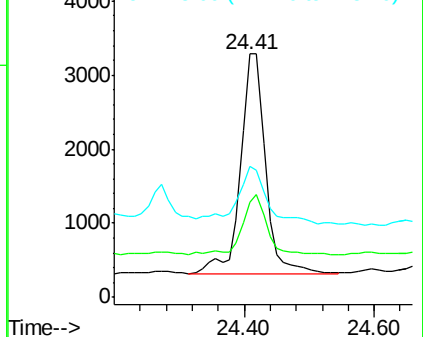
125 53.7 14.5 21.7#



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



#26

Indeno(1,2,3-cd)pyrene

Concen: 0.00 ng/u1

RT: 27.37 min Scan# 1862

Delta R.T. 0.04 min

Lab File: BM002960.D

Acq: 21 Oct 2015 22:49

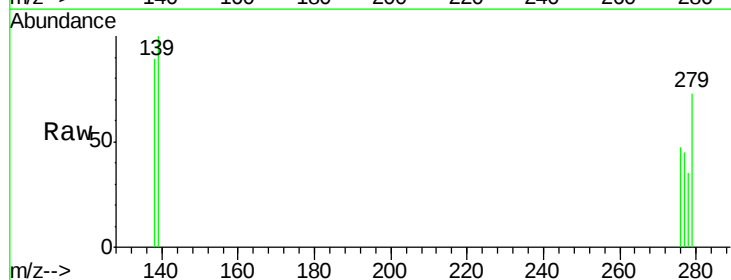
Tgt Ion:276 Resp: 203

Ion Ratio Lower Upper

276 100

138 22.7 27.5 41.3#

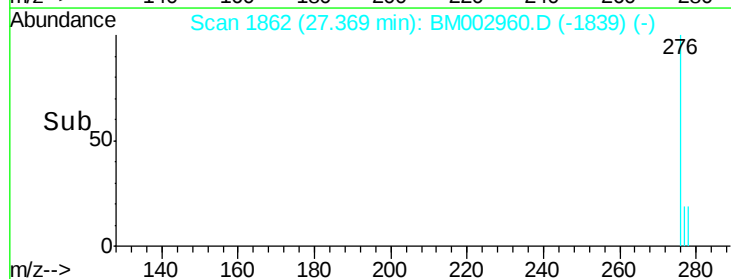
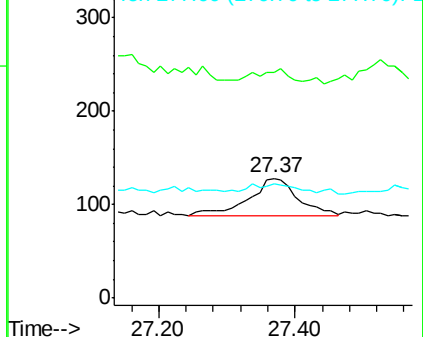
277 12.8 19.3 28.9#

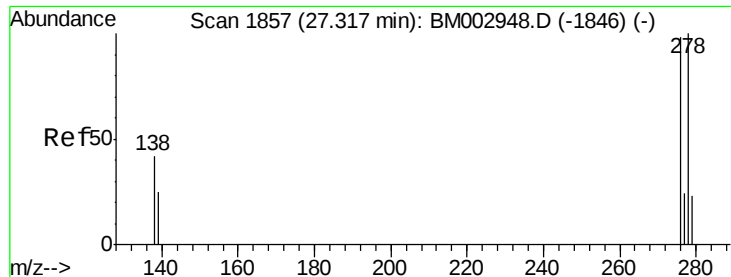


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#27

Dibenzo(a,h)anthracene

Concen: 0.00 ng/ul

RT: 27.32 min Scan# 1857

Delta R.T. 0.00 min

Lab File: BM002960.D

Acq: 21 Oct 2015 22:49

Instrument :

BNA\_M

ClientSampleId :

JG9J3

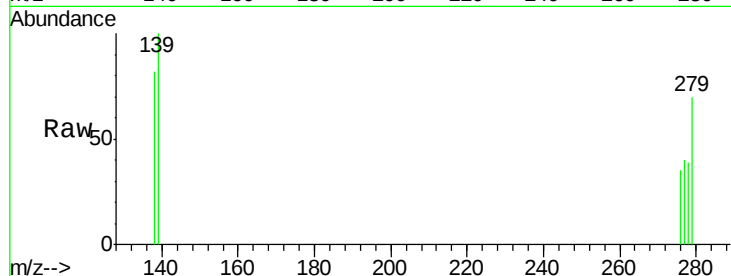
Tgt Ion: 278 Resp: 96

Ion Ratio Lower Upper

278 100

139 258.6 21.7 32.5#

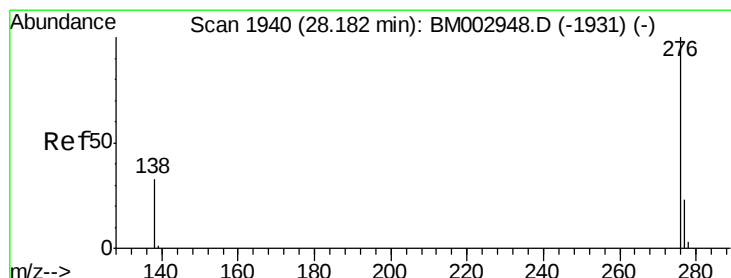
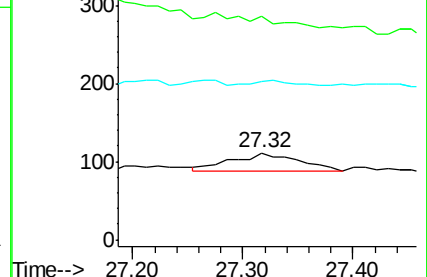
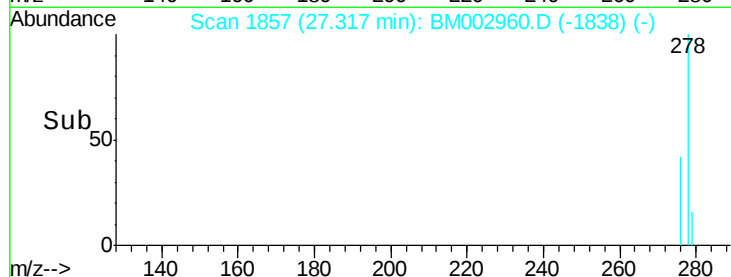
279 182.0 21.9 32.9#



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#28

Benzo(g,h,i)perylene

Concen: 0.00 ng/ul

RT: 28.22 min Scan# 1944

Delta R.T. 0.04 min

Lab File: BM002960.D

Acq: 21 Oct 2015 22:49

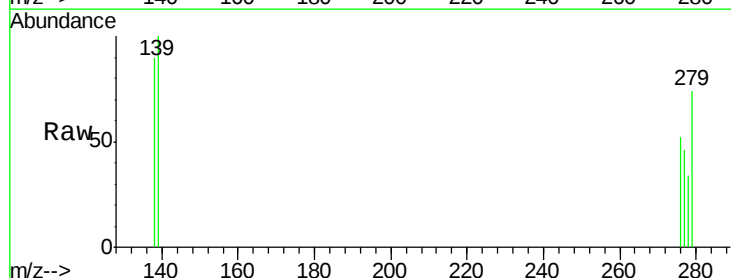
Tgt Ion: 276 Resp: 246

Ion Ratio Lower Upper

276 100

277 87.9 21.3 31.9#

138 172.9 25.5 38.3#



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

