

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM090315\  
 Data File : BM002651.D  
 Acq On : 03 Sep 2015 17:00  
 Operator : UM/IZ  
 Sample : MDL-01-W  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-01-W

Quant Time: Sep 04 04:22:13 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-SIM-BM90315.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Sep 03 14:33:37 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.78  | 152  | 7597     | 0.40 | ng/ul | 0.00     |
| 4) Naphthalene-d8         | 11.64 | 136  | 32111    | 0.40 | ng/ul | 0.00     |
| 8) Acenaphthene-d10       | 15.36 | 164  | 14548    | 0.40 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 18.08 | 188  | 26099    | 0.40 | ng/ul | 0.00     |
| 18) Chrysene-d12          | 22.17 | 240  | 19261    | 0.40 | ng/ul | 0.01     |
| 22) Perylene-d12          | 24.78 | 264  | 18967    | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 2) 1,4-Dioxane-d8           | 0.00  | 96   | 0d       | 0.00 | ng/uL |          |
| 6) 2-Methylnaphthalene-d10  | 13.17 | 152  | 17068    | 0.40 | ng/ul | 0.00     |
| 16) Fluoranthene-d10        | 20.05 | 212  | 22783    | 0.38 | ng/ul | 0.00     |

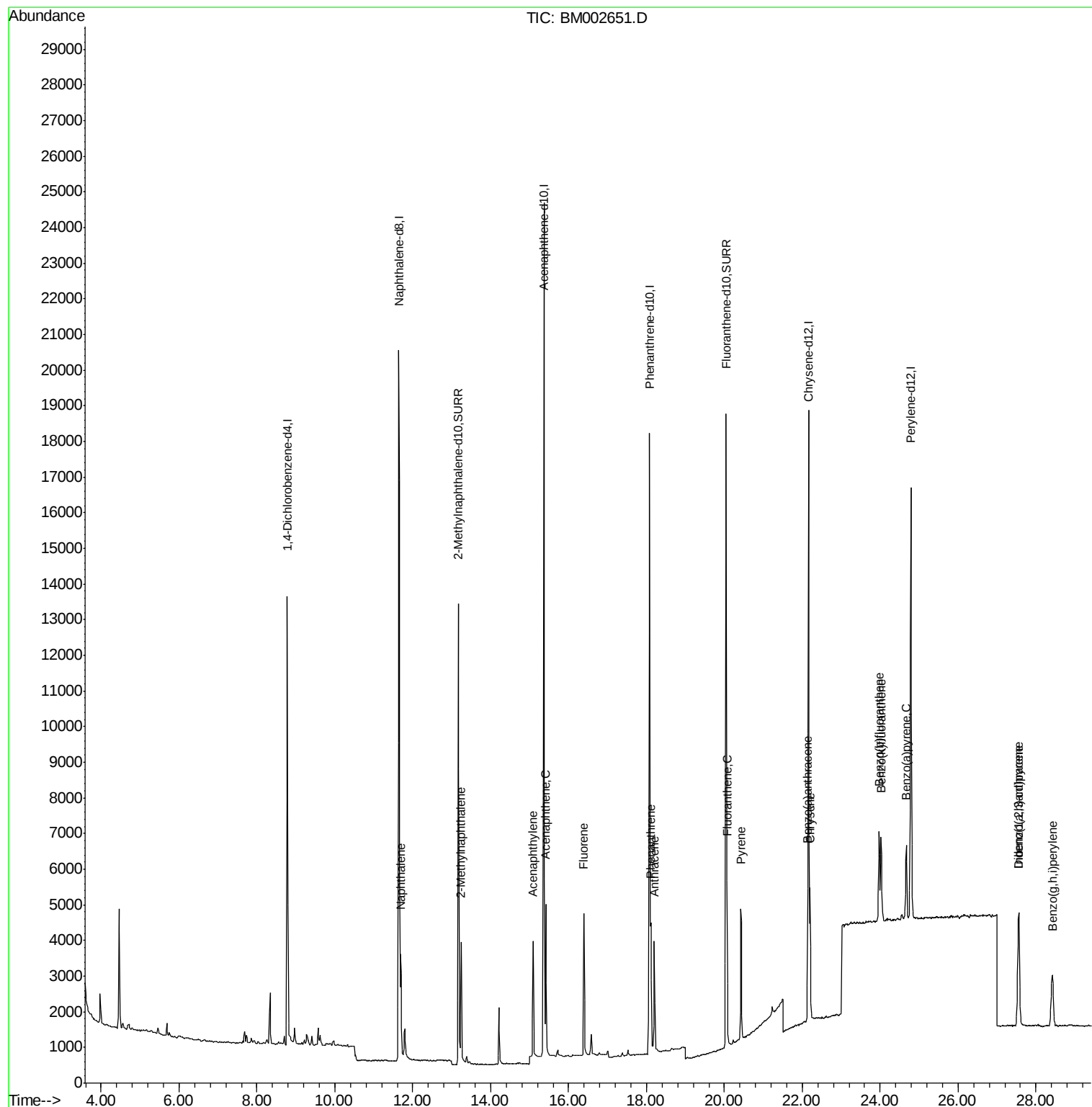
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 5) Naphthalene             | 11.69 | 128  | 4187     | 0.05 | ng/ul  | 96     |
| 7) 2-Methylnaphthalene     | 13.25 | 142  | 3371     | 0.06 | ng/ul  | 94     |
| 9) Acenaphthylene          | 15.09 | 152  | 3908     | 0.05 | ng/ul  | 97     |
| 10) Acenaphthene           | 15.42 | 153  | 2769     | 0.05 | ng/ul  | 99     |
| 11) Fluorene               | 16.39 | 166  | 2972     | 0.05 | ng/ul  | 94     |
| 14) Phenanthrene           | 18.11 | 178  | 4119     | 0.05 | ng/ul  | 94     |
| 15) Anthracene             | 18.20 | 178  | 3935     | 0.05 | ng/ul  | 95     |
| 17) Fluoranthene           | 20.07 | 202  | 4217     | 0.05 | ng/ul  | 91     |
| 19) Pyrene                 | 20.42 | 202  | 4205     | 0.06 | ng/ul# | 86     |
| 20) Benzo(a)anthracene     | 22.14 | 228  | 3626     | 0.06 | ng/ul# | 82     |
| 21) Chrysene               | 22.20 | 228  | 3588     | 0.06 | ng/ul# | 87     |
| 23) Benzo(b)fluoranthene   | 23.97 | 252  | 4087     | 0.06 | ng/ul# | 42     |
| 24) Benzo(k)fluoranthene   | 24.02 | 252  | 3320     | 0.05 | ng/ul# | 39     |
| 25) Benzo(a)pyrene         | 24.67 | 252  | 3449     | 0.06 | ng/ul# | 37     |
| 26) Indeno(1,2,3-cd)pyrene | 27.56 | 276  | 4108     | 0.06 | ng/ul  | 98     |
| 27) Dibenzo(a,h)anthracene | 27.56 | 278  | 3395     | 0.06 | ng/ul# | 57     |
| 28) Benzo(g,h,i)perylene   | 28.42 | 276  | 3516     | 0.06 | ng/ul# | 66     |

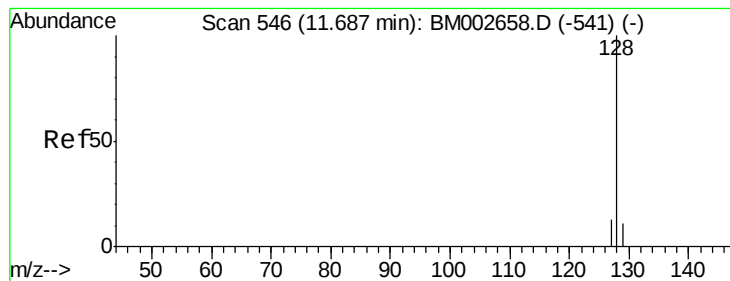
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM090315\  
Data File : BM002651.D  
Acq On : 03 Sep 2015 17:00  
Operator : UM/IZ  
Sample : MDL-01-W  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
MDL-01-W

Quant Time: Sep 04 04:22:13 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-SIM-BM90315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Sep 03 14:33:37 2015  
Response via : Initial Calibration





#5

Naphthalene

Concen: 0.05 ng/ul

RT: 11.69 min Scan# 546

Delta R.T. 0.00 min

Lab File: BM002651.D

Acq: 03 Sep 2015 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-01-W

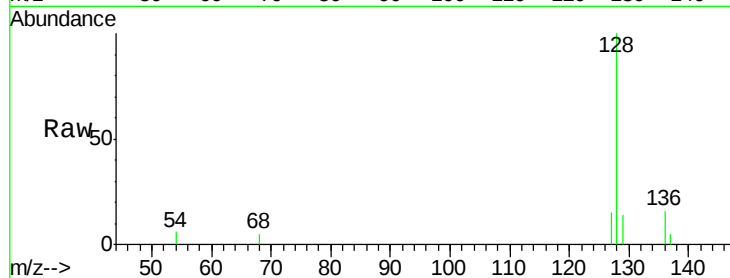
Tgt Ion:128 Resp: 4187

Ion Ratio Lower Upper

128 100

129 14.0 9.8 14.8

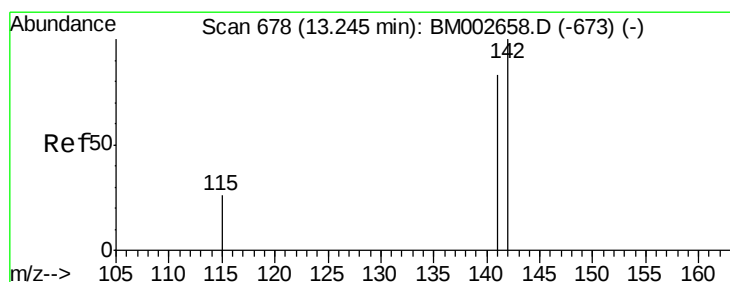
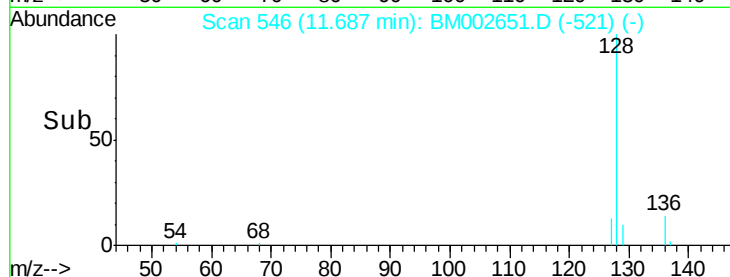
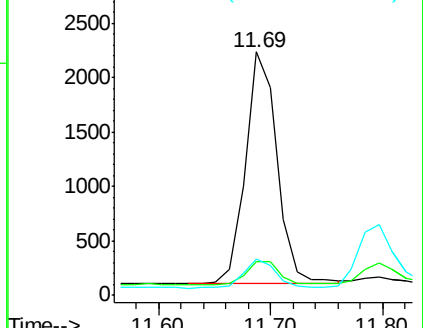
127 15.1 10.7 16.1



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: 0.06 ng/ul

RT: 13.25 min Scan# 678

Delta R.T. -0.00 min

Lab File: BM002651.D

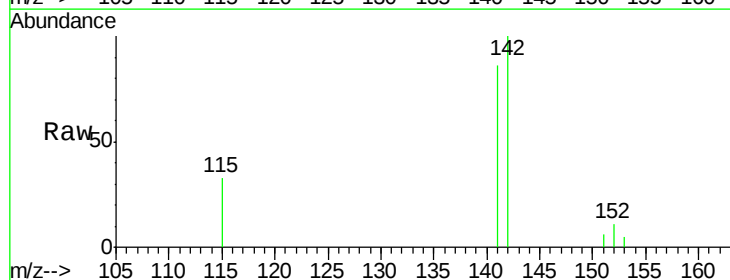
Acq: 03 Sep 2015 17:00

Tgt Ion:142 Resp: 3371

Ion Ratio Lower Upper

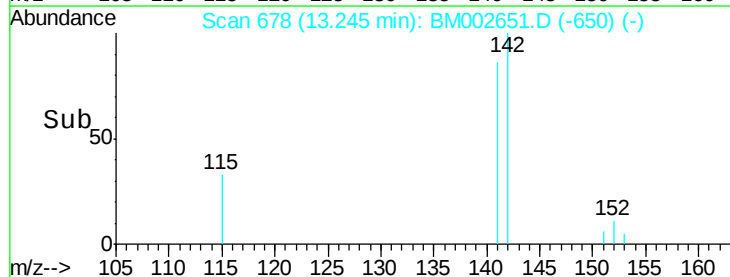
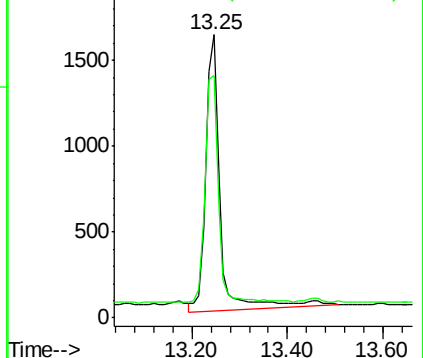
142 100

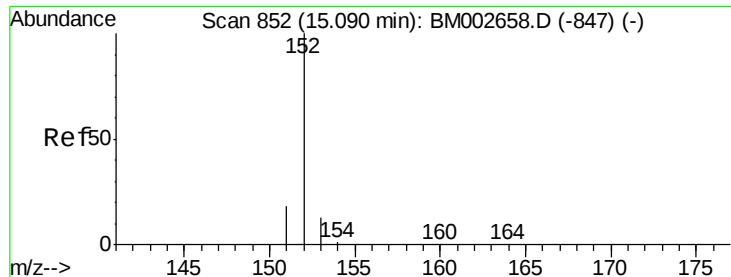
141 93.3 70.3 105.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#9

Acenaphthylene

Concen: 0.05 ng/ul

RT: 15.09 min Scan# 852

Delta R.T. -0.00 min

Lab File: BM002651.D

Acq: 03 Sep 2015 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-01-W

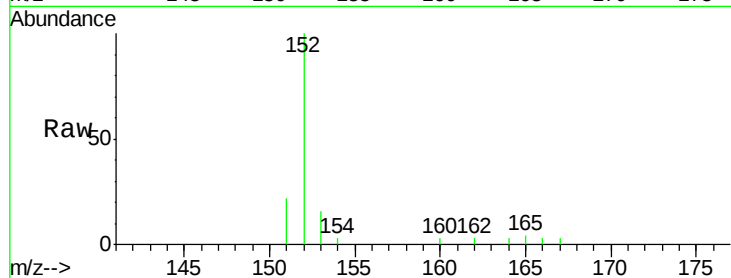
Tgt Ion:152 Resp: 3908

Ion Ratio Lower Upper

152 100

151 21.7 16.8 25.2

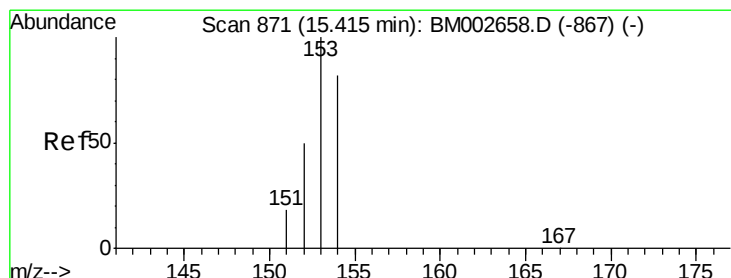
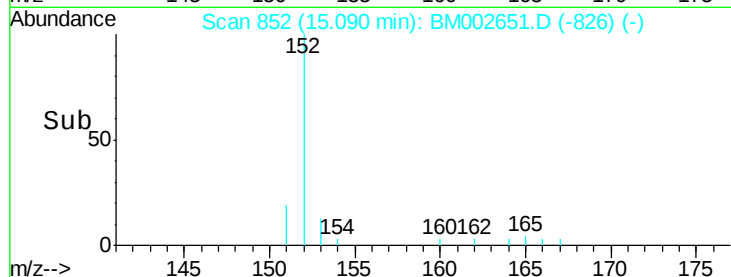
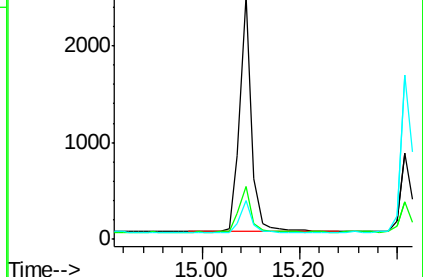
153 15.8 11.3 16.9



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#10

Acenaphthene

Concen: 0.05 ng/ul

RT: 15.42 min Scan# 871

Delta R.T. 0.00 min

Lab File: BM002651.D

Acq: 03 Sep 2015 17:00

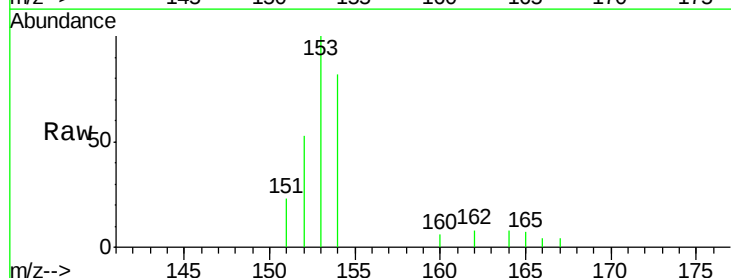
Tgt Ion:153 Resp: 2769

Ion Ratio Lower Upper

153 100

152 52.7 42.3 63.5

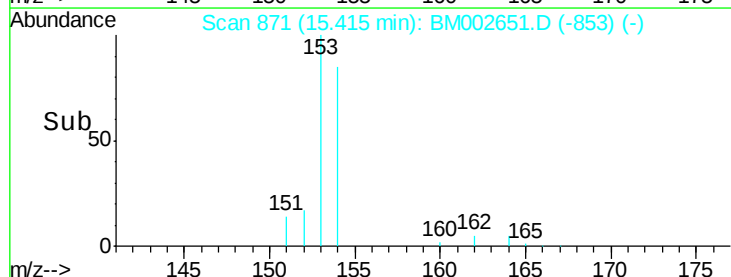
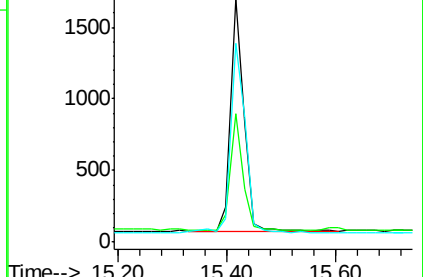
154 81.8 64.7 97.1

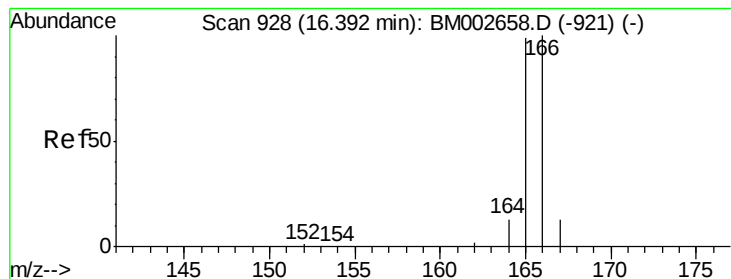


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#11

Fluorene

Concen: 0.05 ng/ul

RT: 16.39 min Scan# 928

Delta R.T. 0.00 min

Lab File: BM002651.D

Acq: 03 Sep 2015 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-01-W

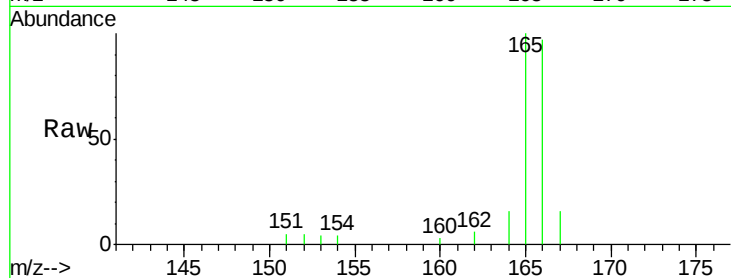
Tgt Ion:166 Resp: 2972

Ion Ratio Lower Upper

166 100

165 103.1 87.6 131.4

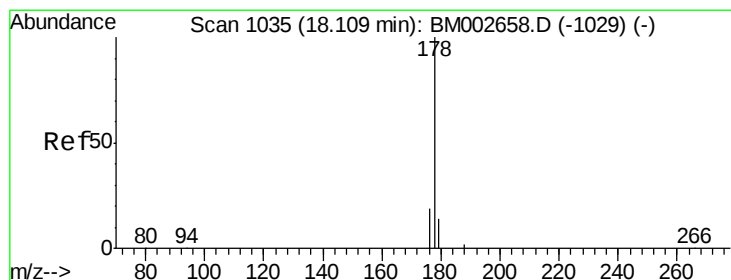
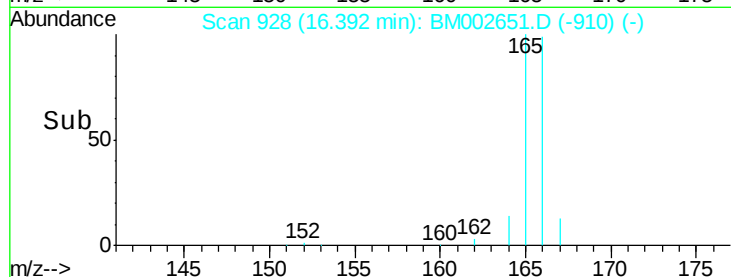
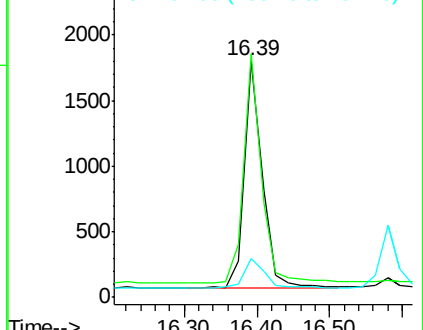
167 16.5 11.1 16.7



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



#14

Phenanthrene

Concen: 0.05 ng/ul

RT: 18.11 min Scan# 1035

Delta R.T. 0.00 min

Lab File: BM002651.D

Acq: 03 Sep 2015 17:00

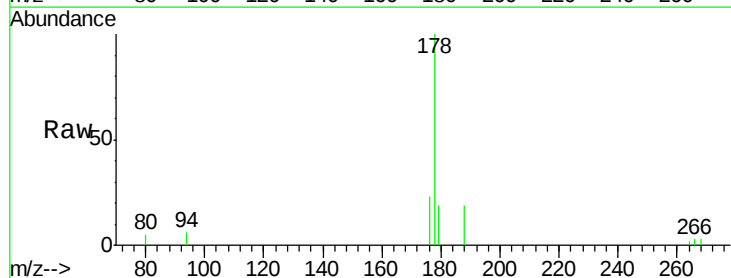
Tgt Ion:178 Resp: 4119

Ion Ratio Lower Upper

178 100

176 22.5 16.2 24.4

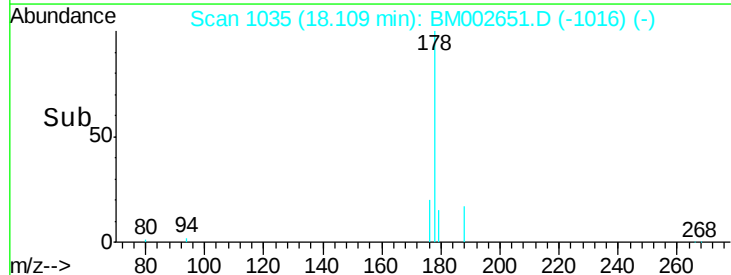
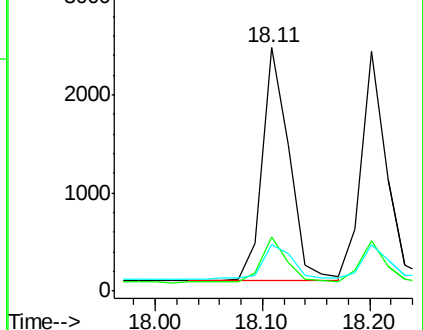
179 19.0 12.8 19.2

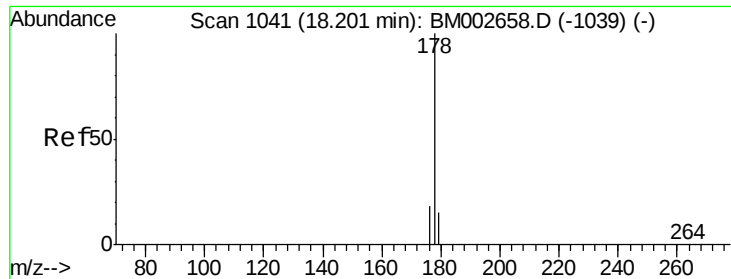


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

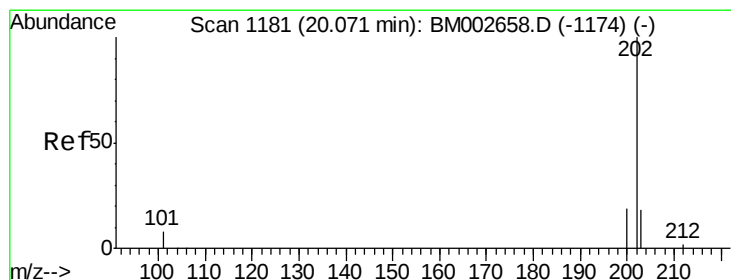
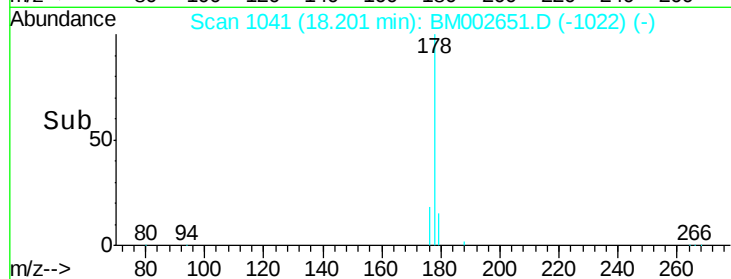
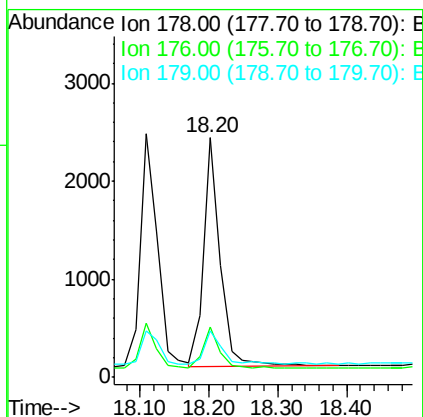
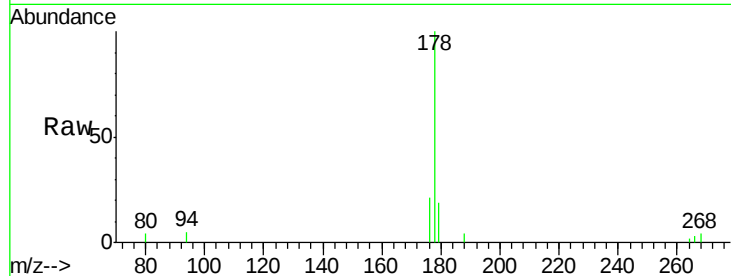




#15  
 Anthracene  
 Concen: 0.05 ng/ul  
 RT: 18.20 min Scan# 1041  
 Delta R.T. 0.00 min  
 Lab File: BM002651.D  
 Acq: 03 Sep 2015 17:00

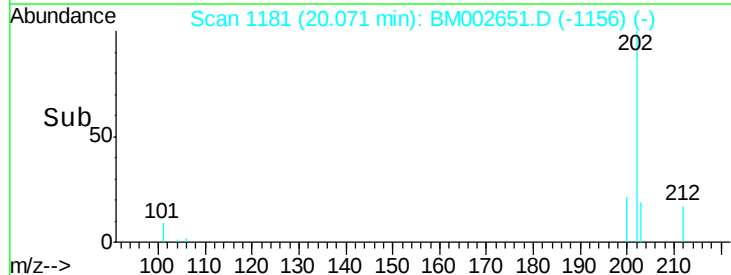
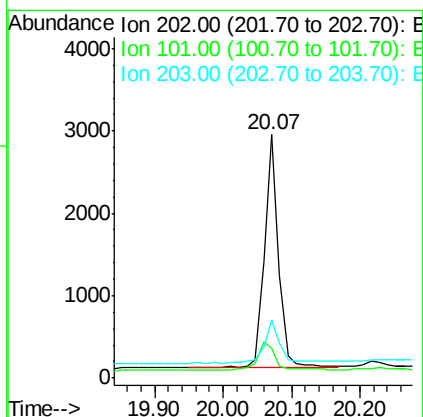
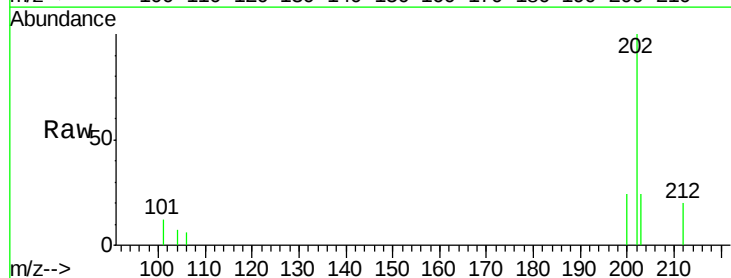
Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-01-W

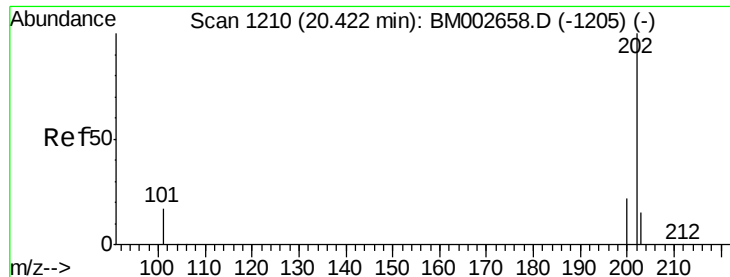
Tgt Ion:178 Resp: 3935  
 Ion Ratio Lower Upper  
 178 100  
 176 21.2 15.8 23.8  
 179 19.4 13.3 19.9



#17  
 Fluoranthene  
 Concen: 0.05 ng/ul  
 RT: 20.07 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: BM002651.D  
 Acq: 03 Sep 2015 17:00

Tgt Ion:202 Resp: 4217  
 Ion Ratio Lower Upper  
 202 100  
 101 12.2 0.0 33.1  
 203 23.7 0.0 37.2





#19

Pyrene

Concen: 0.06 ng/ul

RT: 20.42 min Scan# 1210

Delta R.T. -0.00 min

Lab File: BM002651.D

Acq: 03 Sep 2015 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-01-W

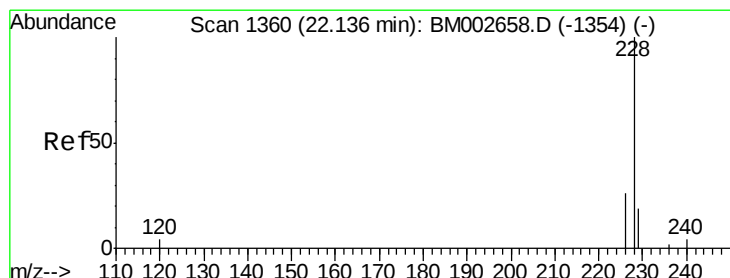
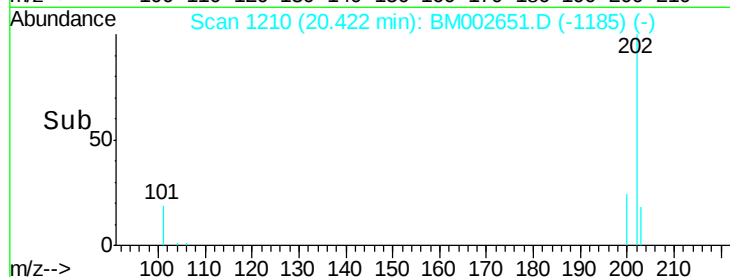
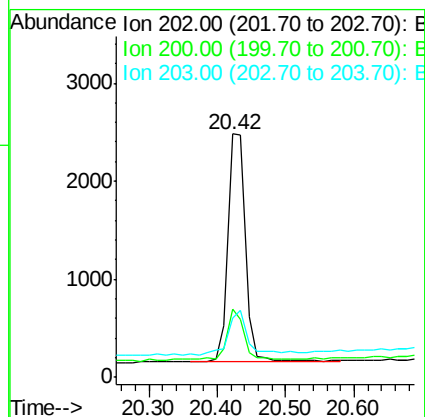
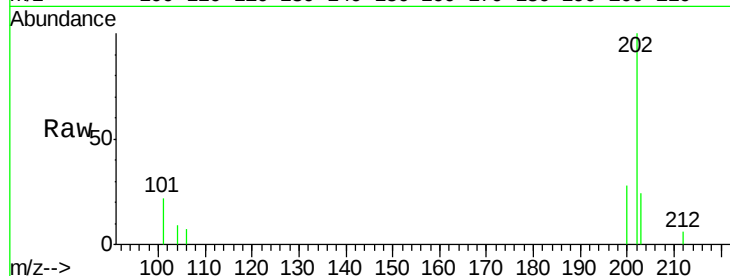
Tgt Ion:202 Resp: 4205

Ion Ratio Lower Upper

202 100

200 28.3 18.0 27.0#

203 24.4 13.8 20.6#



#20

Benzo(a)anthracene

Concen: 0.06 ng/ul

RT: 22.14 min Scan# 1360

Delta R.T. 0.00 min

Lab File: BM002651.D

Acq: 03 Sep 2015 17:00

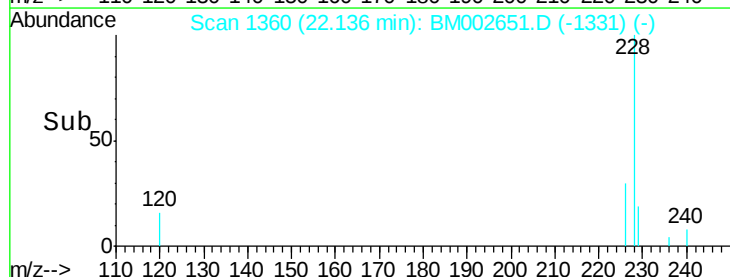
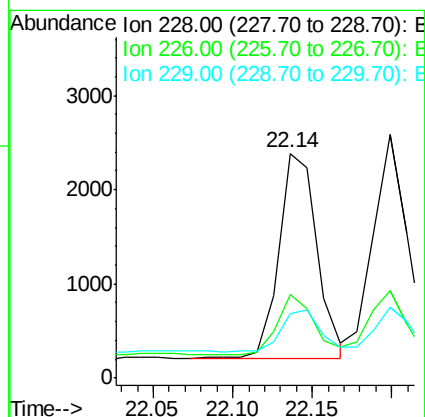
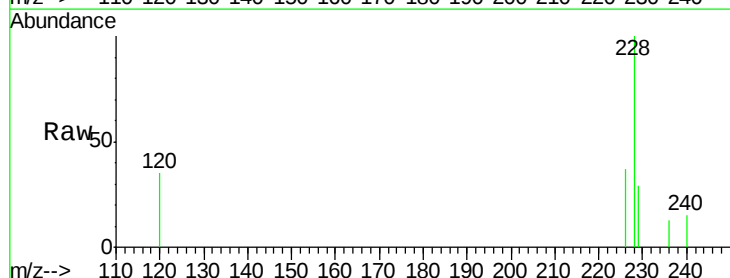
Tgt Ion:228 Resp: 3626

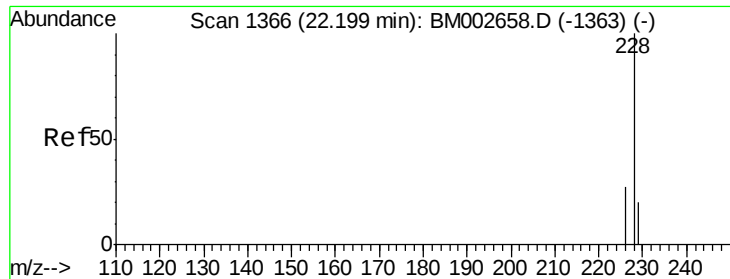
Ion Ratio Lower Upper

228 100

226 37.4 23.0 34.4#

229 28.5 15.2 22.8#





#21

Chrysene

Concen: 0.06 ng/ul

RT: 22.20 min Scan# 1366

Delta R.T. 0.00 min

Lab File: BM002651.D

Acq: 03 Sep 2015 17:00

Instrument :

BNA\_M

ClientSampleId :

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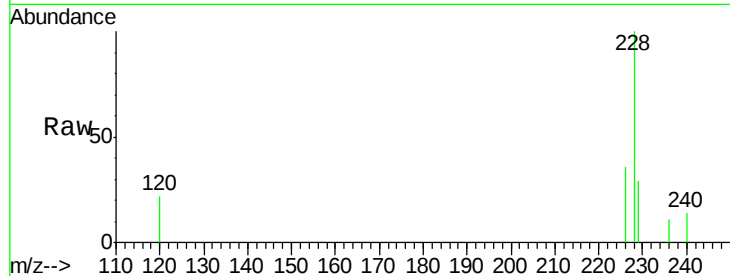
Tgt Ion:228 Resp: 3588

Ion Ratio Lower Upper

228 100

226 36.1 25.7 38.5

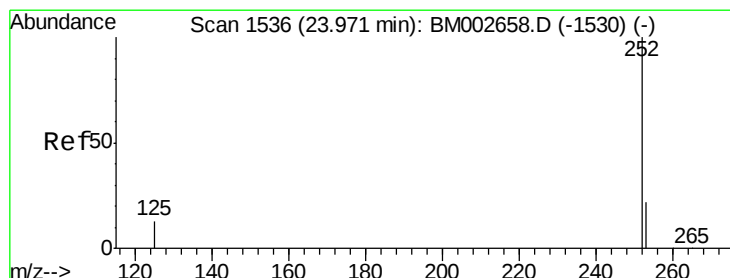
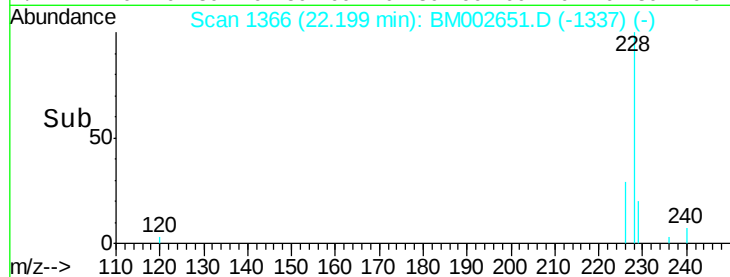
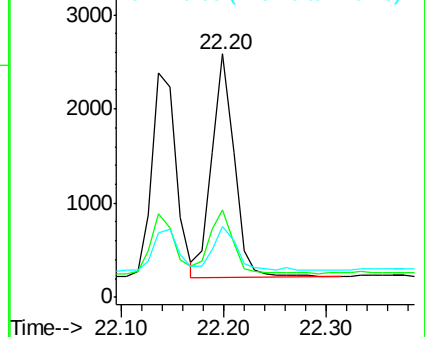
229 29.0 15.2 22.8#



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



#23

Benzo(b)fluoranthene

Concen: 0.06 ng/ul

RT: 23.97 min Scan# 1536

Delta R.T. 0.00 min

Lab File: BM002651.D

Acq: 03 Sep 2015 17:00

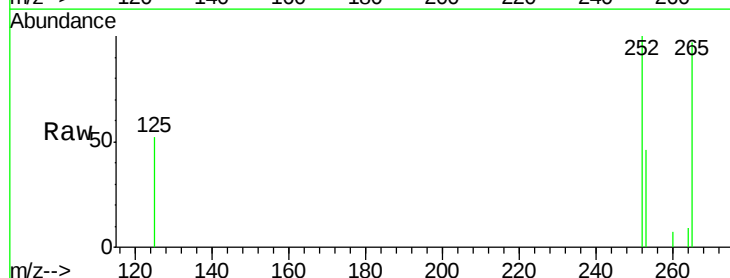
Tgt Ion:252 Resp: 4087

Ion Ratio Lower Upper

252 100

253 45.7 0.0 48.0

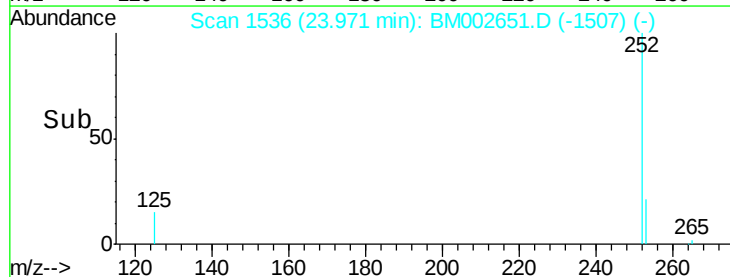
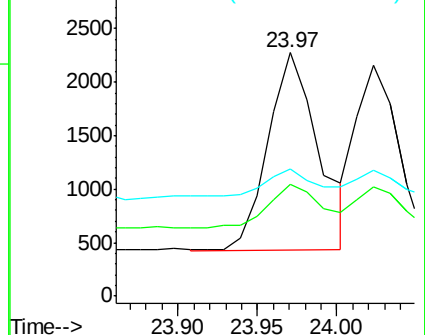
125 52.4 0.0 36.6#

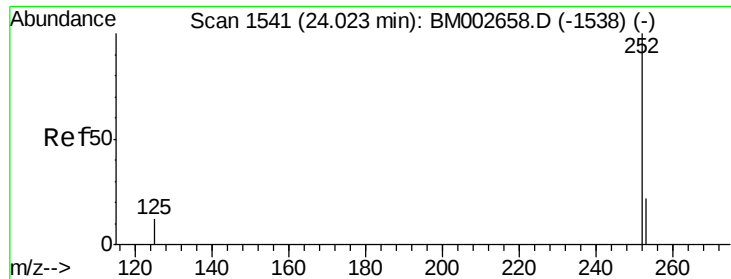


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#24

Benzo(k)fluoranthene

Concen: 0.05 ng/ul

RT: 24.02 min Scan# 1541

Delta R.T. 0.00 min

Lab File: BM002651.D

Acq: 03 Sep 2015 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-01-W

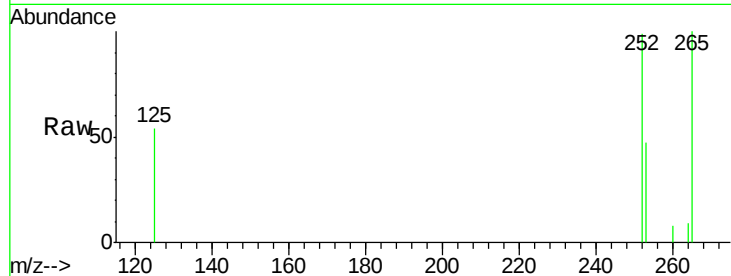
Tgt Ion:252 Resp: 3320

Ion Ratio Lower Upper

252 100

253 47.2 20.8 31.2#

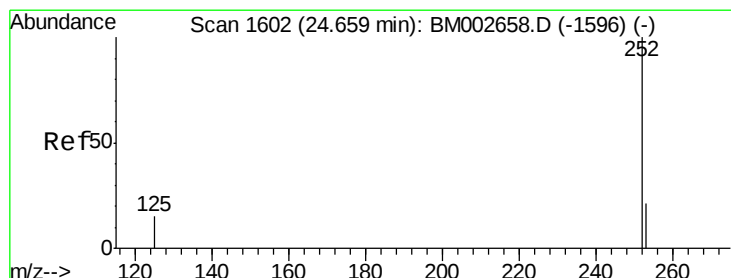
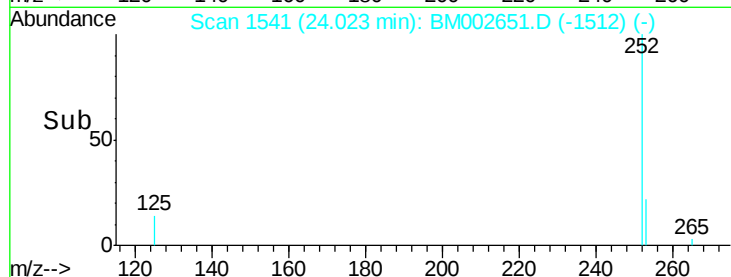
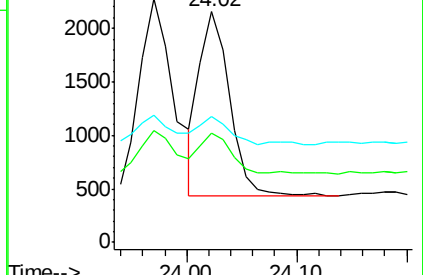
125 54.6 12.2 18.4#



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: 0.06 ng/ul

RT: 24.67 min Scan# 1603

Delta R.T. 0.00 min

Lab File: BM002651.D

Acq: 03 Sep 2015 17:00

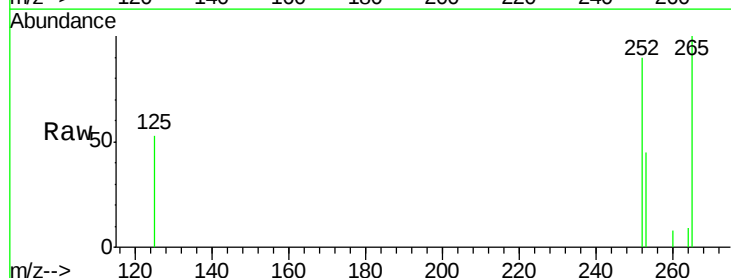
Tgt Ion:252 Resp: 3449

Ion Ratio Lower Upper

252 100

253 49.6 21.8 32.8#

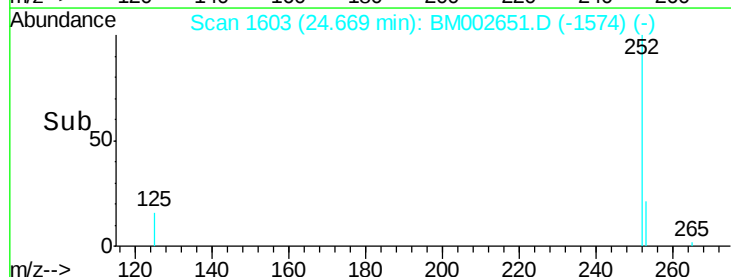
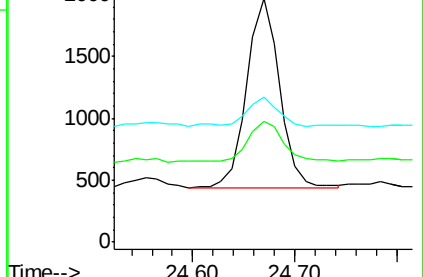
125 59.6 14.5 21.7#

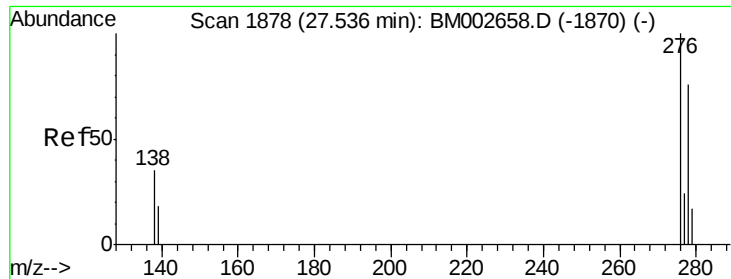


Abundance Ion 252.00 (251.70 to 252.70): E

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: 0.06 ng/ul

RT: 27.56 min Scan# 1880

Delta R.T. 0.01 min

Lab File: BM002651.D

Acq: 03 Sep 2015 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-01-W

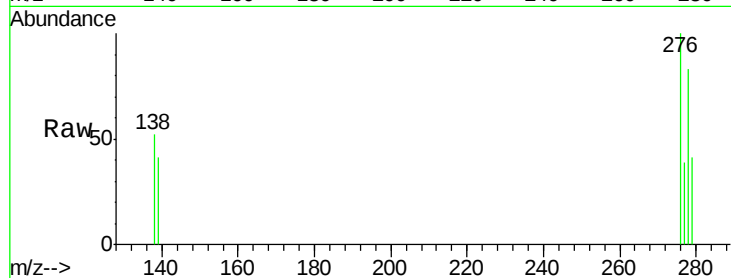
Tgt Ion:276 Resp: 4108

Ion Ratio Lower Upper

276 100

138 36.1 27.5 41.3

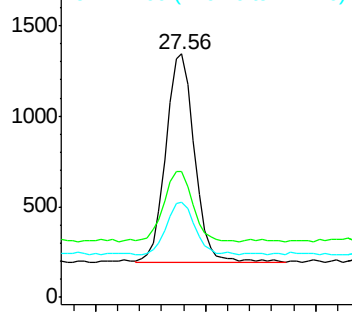
277 25.0 19.3 28.9



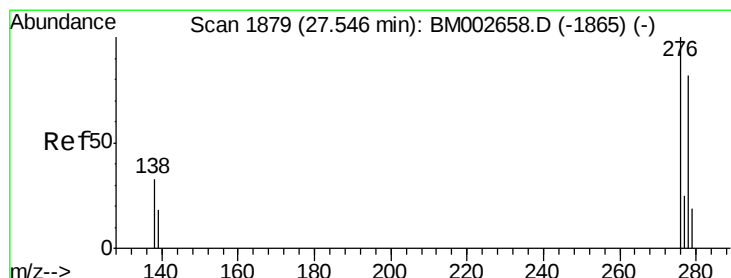
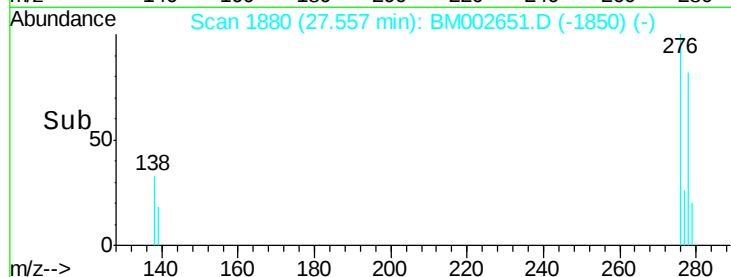
Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



Time-->



#27

Dibenzo(a,h)anthracene

Concen: 0.06 ng/ul

RT: 27.56 min Scan# 1880

Delta R.T. 0.00 min

Lab File: BM002651.D

Acq: 03 Sep 2015 17:00

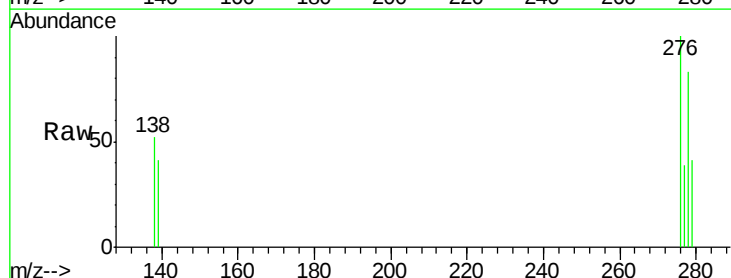
Tgt Ion:278 Resp: 3395

Ion Ratio Lower Upper

278 100

139 50.0 21.7 32.5#

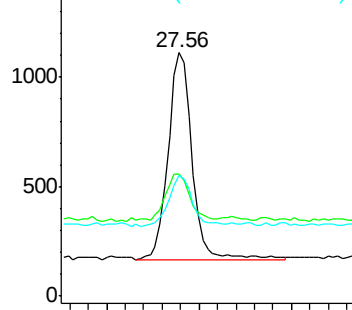
279 49.6 21.9 32.9#



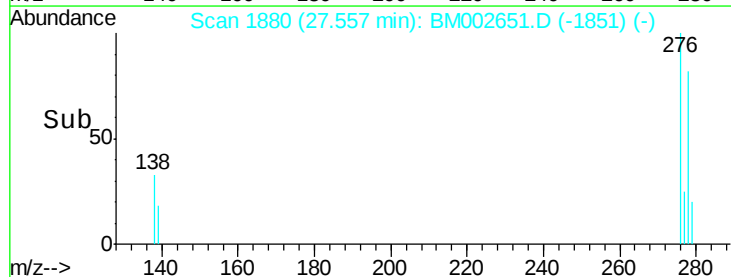
Abundance Ion 278.00 (277.70 to 278.70): E

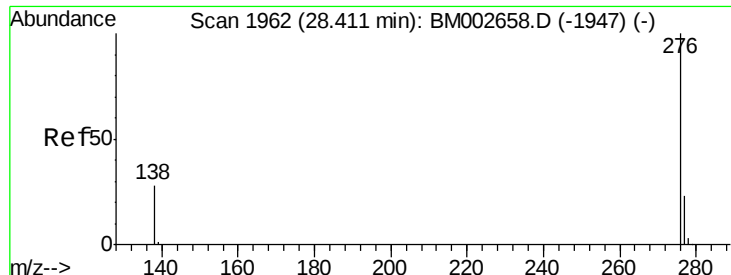
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



Time-->





#28

Benzo(g,h,i)perylene

Concen: 0.06 ng/ul

RT: 28.42 min Scan# 1963

Delta R.T. 0.01 min

Lab File: BM002651.D

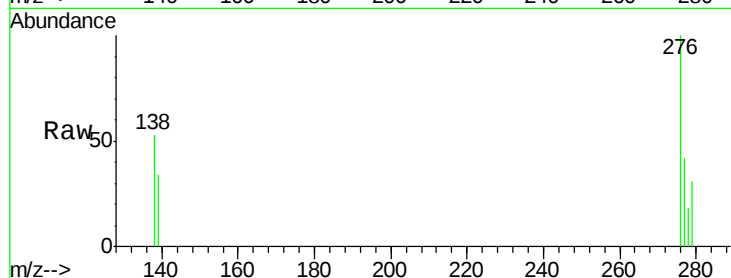
Acq: 03 Sep 2015 17:00

Instrument :

BNA\_M

ClientSampleId :

MDL-01-W



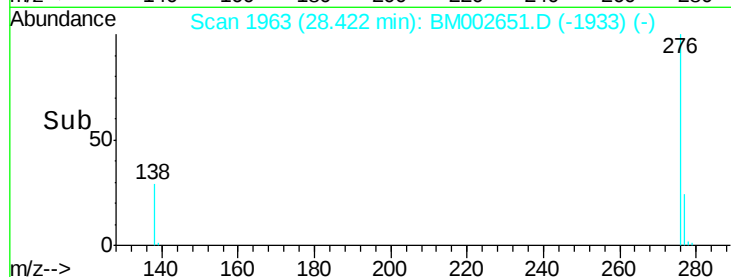
Tgt Ion: 276 Resp: 3516

Ion Ratio Lower Upper

276 100

277 41.7 21.3 31.9#

138 52.9 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

