

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM030315\  
 Data File : BM000624.D  
 Acq On : 03 Mar 2015 19:47  
 Operator : TP/IZ  
 Sample : MDL-02-W  
 Misc : MDL-WATER-0.4PPM  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-02-W

Quant Time: Mar 04 03:12:48 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM01.2-EPA-SIM-BM030315.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 04 02:50:23 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.67  | 152  | 3643     | 0.40 | ng/ul | 0.00     |
| 4) Naphthalene-d8         | 10.46 | 136  | 11911    | 0.40 | ng/ul | 0.00     |
| 8) Acenaphthene-d10       | 14.31 | 164  | 5551     | 0.40 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.07 | 188  | 11525    | 0.40 | ng/ul | 0.02     |
| 18) Chrysene-d12          | 21.26 | 240  | 8548     | 0.40 | ng/ul | 0.00     |
| 22) Perylene-d12          | 23.46 | 264  | 7591     | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 2) 1,4-Dioxane-d8           | 3.14  | 96   | 4700     | 1.77 | ng/uL | 0.00     |
| 6) 2-Methylnaphthalene-d10  | 12.02 | 152  | 4        | 0.00 | ng/ul | -0.02    |
| 16) Fluoranthene-d10        | 19.12 | 212  | 10       | 0.00 | ng/ul | 0.04     |

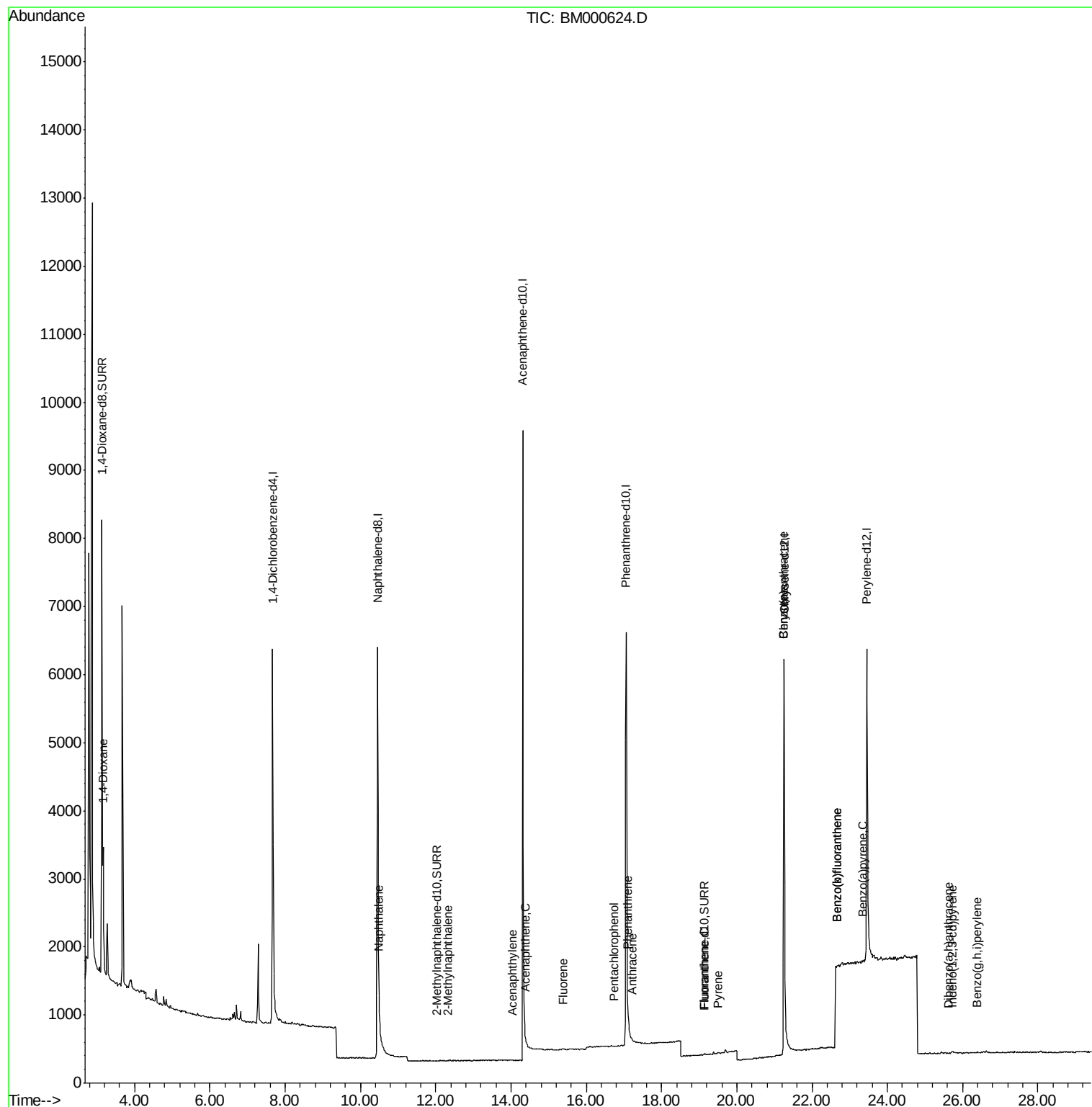
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) 1,4-Dioxane             | 3.17  | 88   | 3141     | 0.76 | ng/ul# | 50     |
| 5) Naphthalene             | 10.49 | 128  | 14       | 0.00 | ng/ul# | 1      |
| 7) 2-Methylnaphthalene     | 12.33 | 142  | 6        | 0.00 | ng/ul  | 87     |
| 9) Acenaphthylene          | 14.03 | 152  | 14       | 0.00 | ng/ul# | 1      |
| 10) Acenaphthene           | 14.38 | 153  | 6        | 0.00 | ng/ul# | 73     |
| 11) Fluorene               | 15.38 | 166  | 6        | 0.00 | ng/ul# | 35     |
| 13) Pentachlorophenol      | 16.74 | 266  | 6        | 0.01 | ng/ul# | 30     |
| 14) Phenanthrene           | 17.10 | 178  | 28       | 0.00 | ng/ul# | 1      |
| 15) Anthracene             | 17.22 | 178  | 32       | 0.00 | ng/ul# | 1      |
| 17) Fluoranthene           | 19.14 | 202  | 25       | 0.00 | ng/ul# | 1      |
| 19) Pyrene                 | 19.50 | 202  | 22       | 0.00 | ng/ul# | 1      |
| 20) Benzo(a)anthracene     | 21.25 | 228  | 47       | 0.00 | ng/ul# | 1      |
| 21) Chrysene               | 21.25 | 228  | 47       | 0.00 | ng/ul# | 1      |
| 23) Benzo(b)fluoranthene   | 22.66 | 252  | 961      | 0.04 | ng/ul# | 1      |
| 24) Benzo(k)fluoranthene   | 22.66 | 252  | 961      | 0.03 | ng/ul# | 1      |
| 25) Benzo(a)pyrene         | 23.34 | 252  | 19       | 0.00 | ng/ul# | 1      |
| 26) Indeno(1,2,3-cd)pyrene | 25.72 | 276  | 24       | 0.00 | ng/ul# | 35     |
| 27) Dibenzo(a,h)anthracene | 25.64 | 278  | 1        | 0.00 | ng/ul# | 1      |
| 28) Benzo(g,h,i)perylene   | 26.39 | 276  | 27       | 0.00 | ng/ul# | 1      |

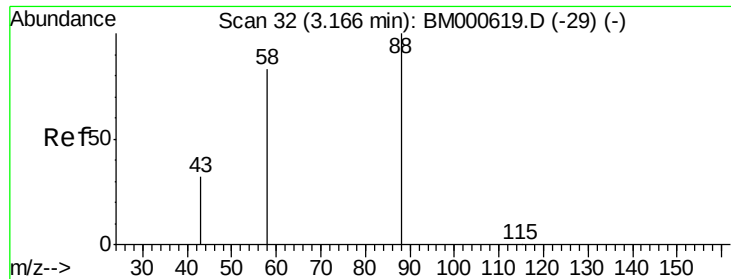
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM030315\  
Data File : BM000624.D  
Acq On : 03 Mar 2015 19:47  
Operator : TP/IZ  
Sample : MDL-02-W  
Misc : MDL-WATER-0.4PPM  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
MDL-02-W

Quant Time: Mar 04 03:12:48 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM01.2-EPA-SIM-BM030315.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Mar 04 02:50:23 2015  
Response via : Initial Calibration





#3

1,4-Dioxane

Concen: 0.76 ng/ul

RT: 3.17 min Scan# 32

Delta R.T. -0.00 min

Lab File: BM000624.D

Acq: 03 Mar 2015 19:47

Instrument :

BNA\_M

ClientSampled :

MDL-02-W

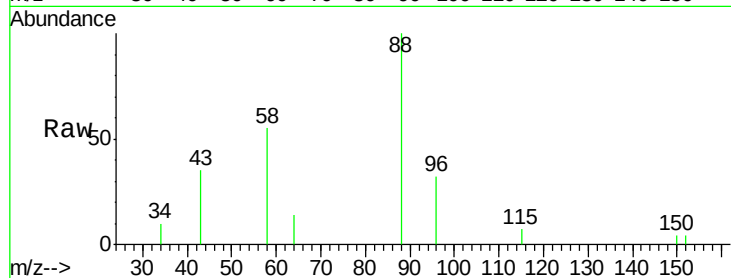
Tgt Ion: 88 Resp: 3141

Ion Ratio Lower Upper

88 100

58 30.9 55.4 83.2#

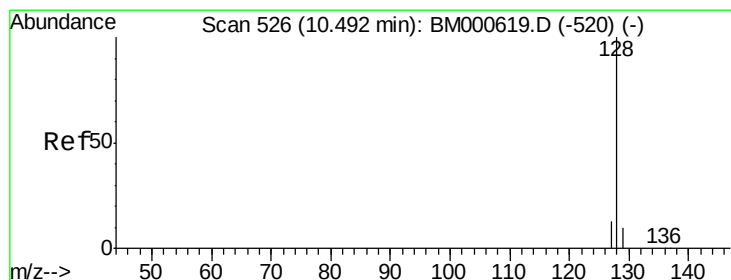
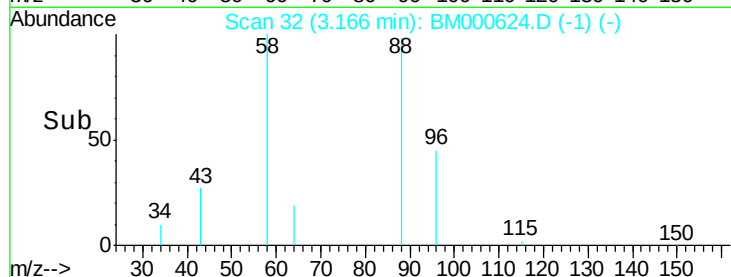
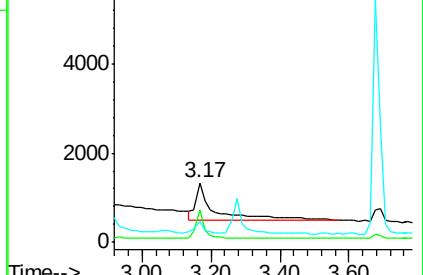
43 0.0 24.2 36.2#



Abundance Ion 88.00 (87.70 to 88.70): BM000624.D (-1) (-)

Ion 58.00 (57.70 to 58.70): BM000624.D (-1) (-)

Ion 43.00 (42.70 to 43.70): BM000624.D (-1) (-)



#5

Naphthalene

Concen: 0.00 ng/ul

RT: 10.49 min Scan# 526

Delta R.T. -0.00 min

Lab File: BM000624.D

Acq: 03 Mar 2015 19:47

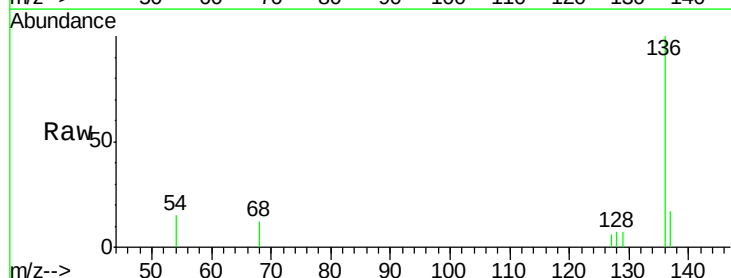
Tgt Ion: 128 Resp: 14

Ion Ratio Lower Upper

128 100

129 92.9 8.5 12.7#

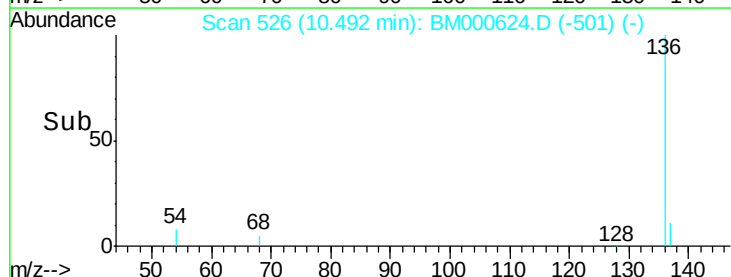
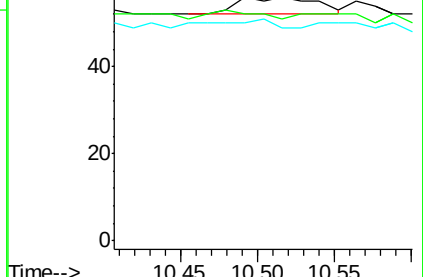
127 89.3 11.0 16.6#

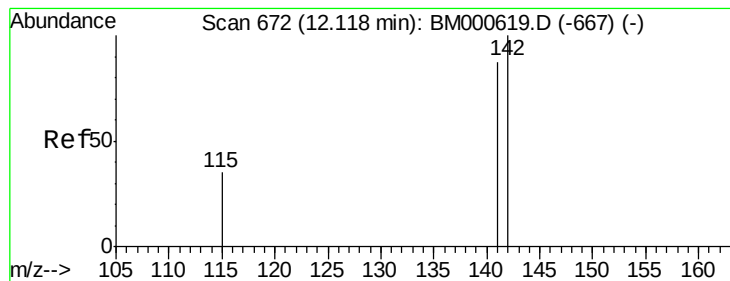


Abundance Ion 128.00 (127.70 to 128.70): BM000624.D (-501) (-)

Ion 129.00 (128.70 to 129.70): BM000624.D (-501) (-)

Ion 127.00 (126.70 to 127.70): BM000624.D (-501) (-)





#7

2-Methylnaphthalene

Concen: 0.00 ng/ul

RT: 12.33 min Scan# 692

Delta R.T. 0.21 min

Lab File: BM000624.D

Acq: 03 Mar 2015 19:47

Instrument :

BNA\_M

ClientSampleId :

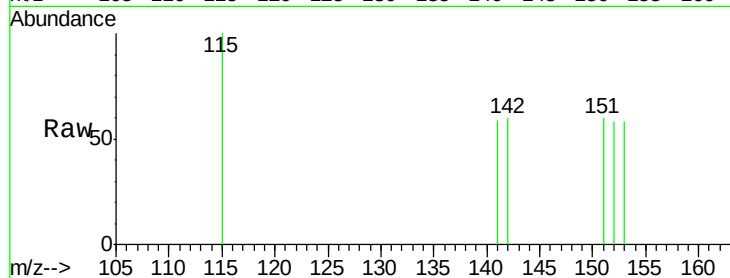
MDL-02-W

Tgt Ion:142 Resp: 6

Ion Ratio Lower Upper

142 100

141 100.0 70.6 106.0

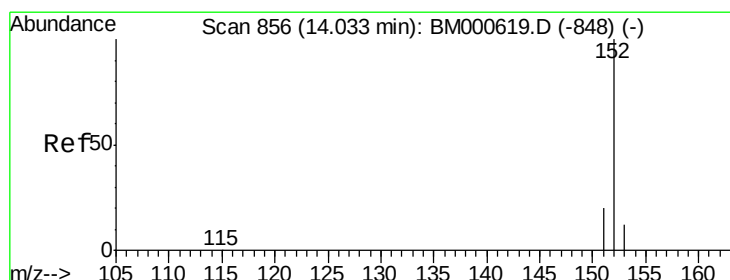
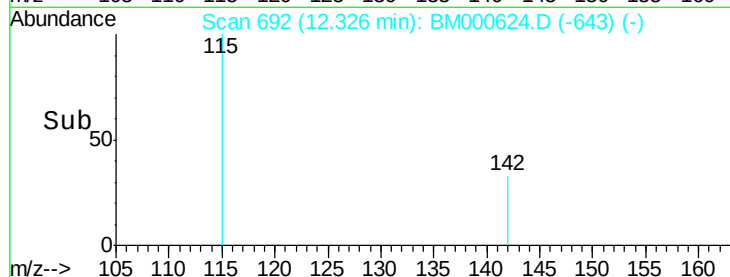


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

12.33

Time--> 12.25 12.30 12.35



#9

Acenaphthylene

Concen: 0.00 ng/ul

RT: 14.03 min Scan# 856

Delta R.T. -0.00 min

Lab File: BM000624.D

Acq: 03 Mar 2015 19:47

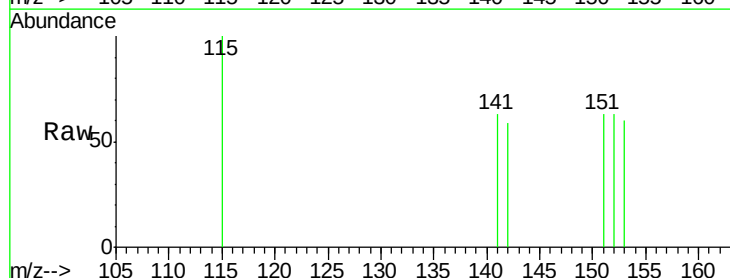
Tgt Ion:152 Resp: 14

Ion Ratio Lower Upper

152 100

151 100.0 16.0 24.0#

153 96.1 10.2 15.4#



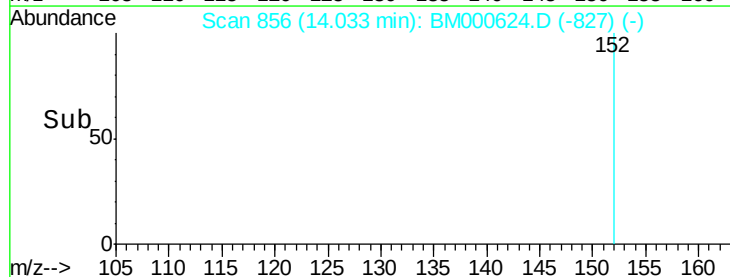
Abundance Ion 152.00 (151.70 to 152.70): E

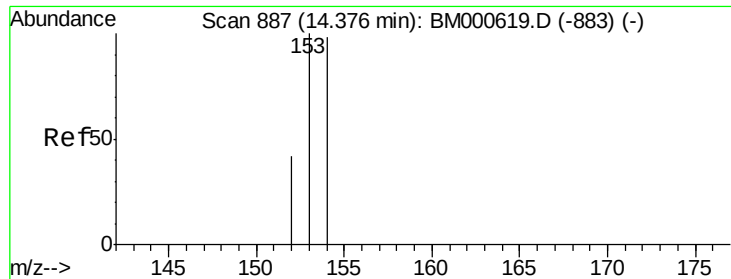
Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E

14.03

Time--> 14.00 14.10 14.20





#10

Acenaphthene

Concen: 0.00 ng/ul

RT: 14.38 min Scan# 887

Delta R.T. -0.00 min

Lab File: BM000624.D

Acq: 03 Mar 2015 19:47

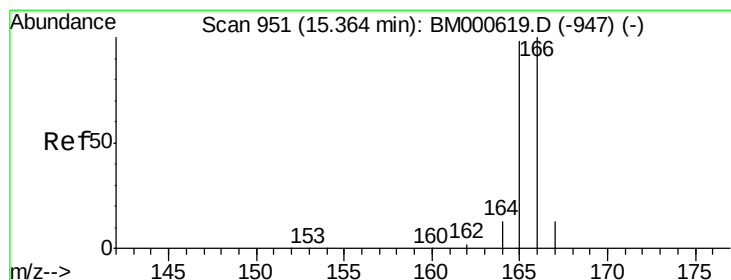
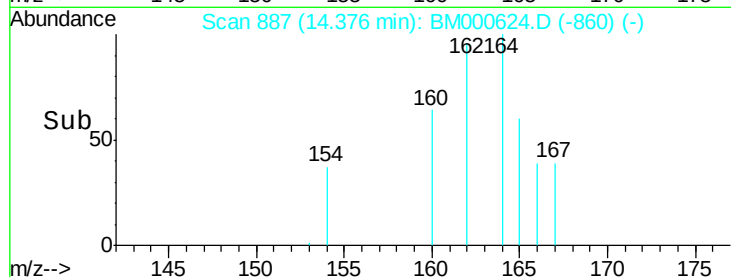
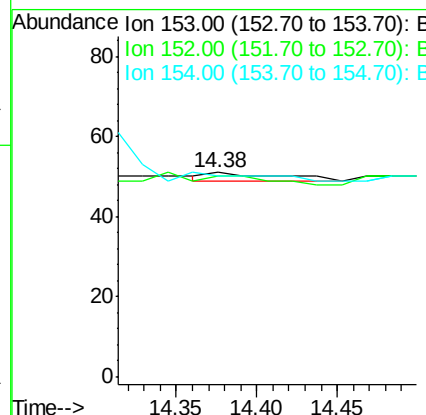
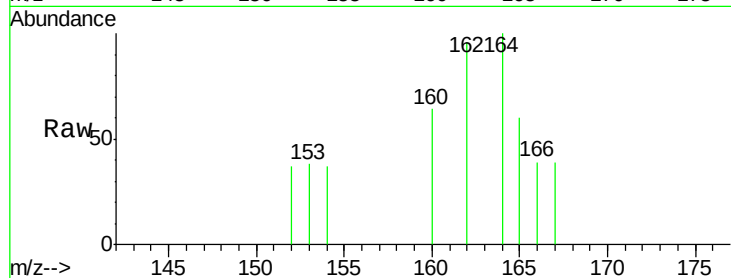
Instrument :

BNA\_M

ClientSampleId :

MDL-02-W

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 153   | Resp: | 6     |
| Ion      | Ratio | Lower | Upper |
| 153      | 100   |       |       |
| 152      | 98.0  | 34.2  | 51.2# |
| 154      | 98.0  | 78.8  | 118.2 |



#11

Fluorene

Concen: 0.00 ng/ul

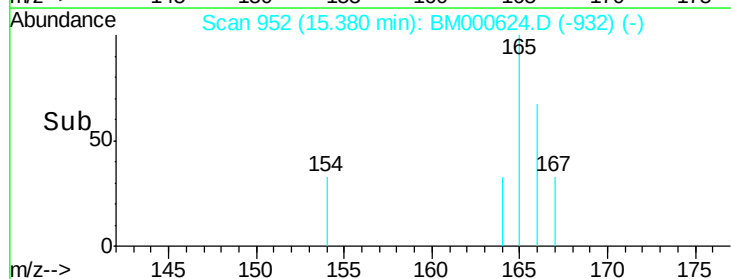
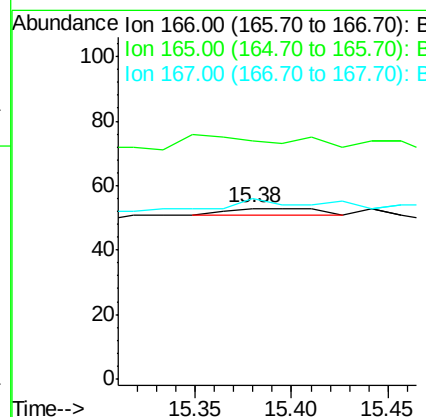
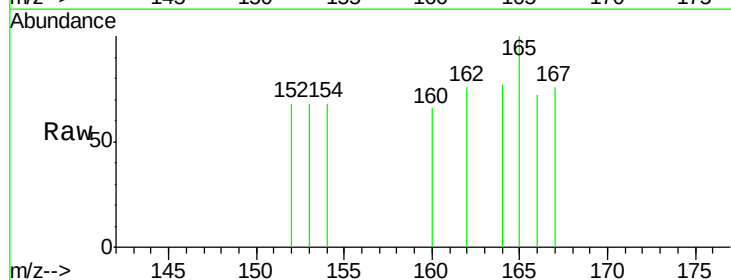
RT: 15.38 min Scan# 952

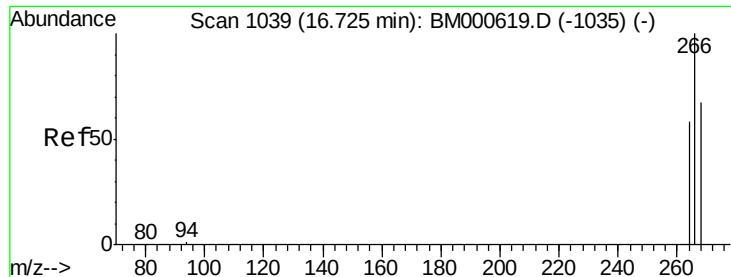
Delta R.T. 0.02 min

Lab File: BM000624.D

Acq: 03 Mar 2015 19:47

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 166   | Resp: | 6      |
| Ion      | Ratio | Lower | Upper  |
| 166      | 100   |       |        |
| 165      | 139.6 | 78.5  | 117.7# |
| 167      | 105.7 | 10.6  | 16.0#  |

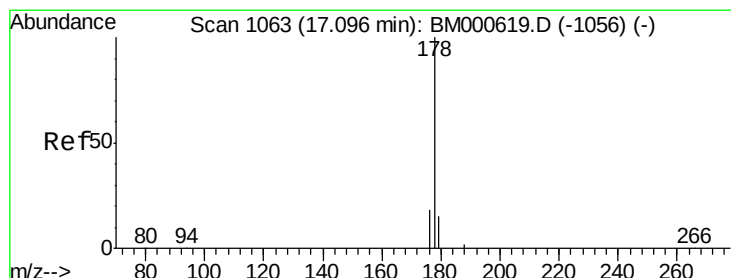
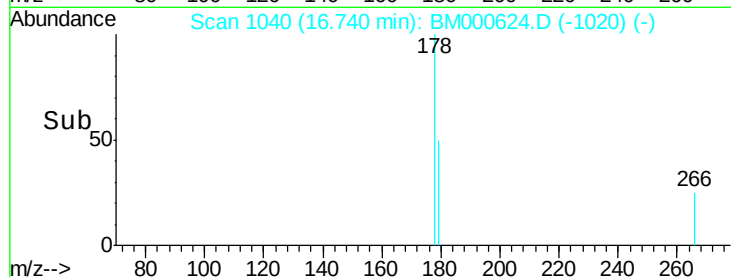
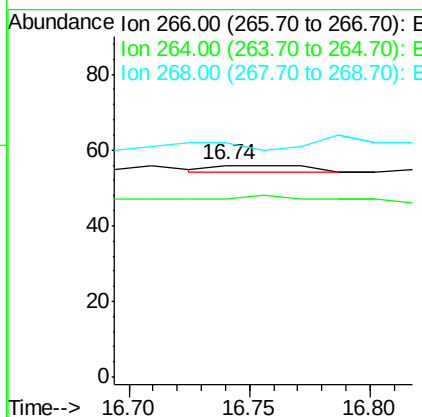
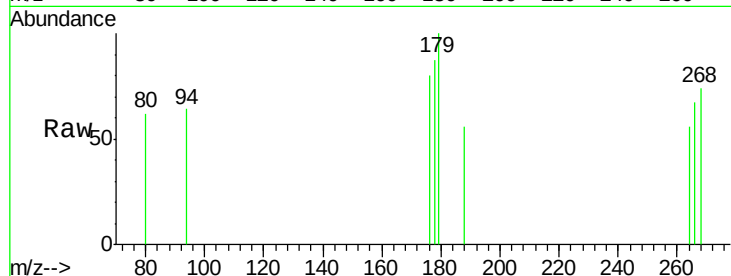




#13  
 Pentachlorophenol  
 Concen: 0.01 ng/ul  
 RT: 16.74 min Scan# 1040  
 Delta R.T. 0.02 min  
 Lab File: BM000624.D  
 Acq: 03 Mar 2015 19:47

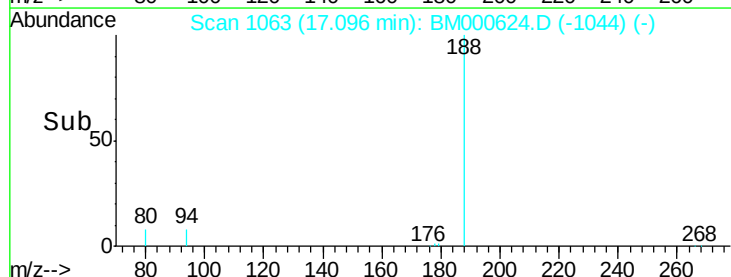
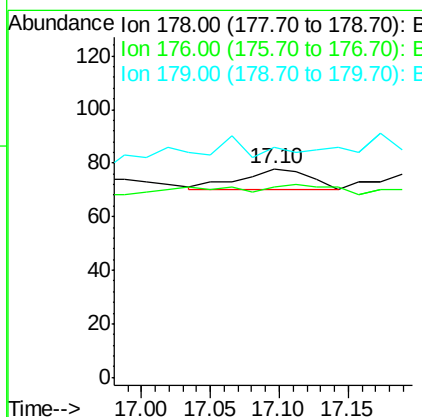
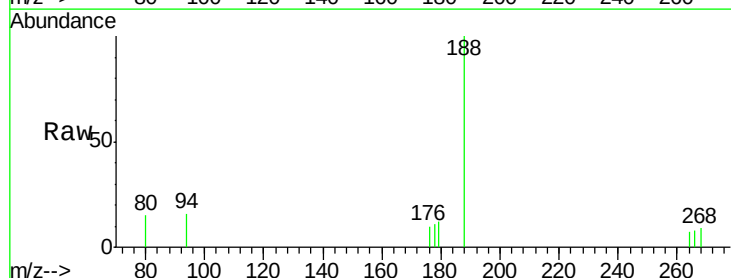
Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-02-W

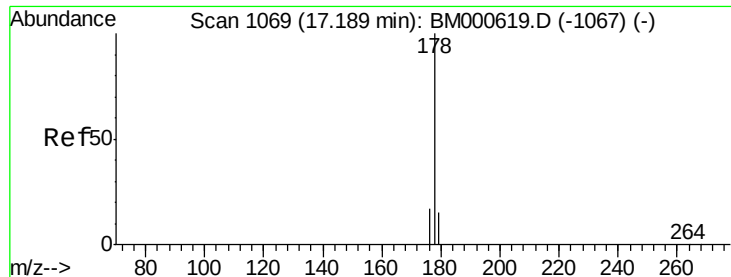
Tgt Ion: 266 Resp: 6  
 Ion Ratio Lower Upper  
 266 100  
 264 16.7 51.0 76.4#  
 268 0.0 49.4 74.2#



#14  
 Phenanthrene  
 Concen: 0.00 ng/ul  
 RT: 17.10 min Scan# 1063  
 Delta R.T. -0.00 min  
 Lab File: BM000624.D  
 Acq: 03 Mar 2015 19:47

Tgt Ion: 178 Resp: 28  
 Ion Ratio Lower Upper  
 178 100  
 176 91.0 14.8 22.2#  
 179 110.3 12.7 19.1#

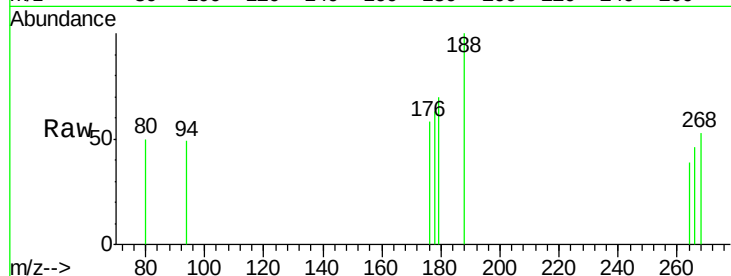




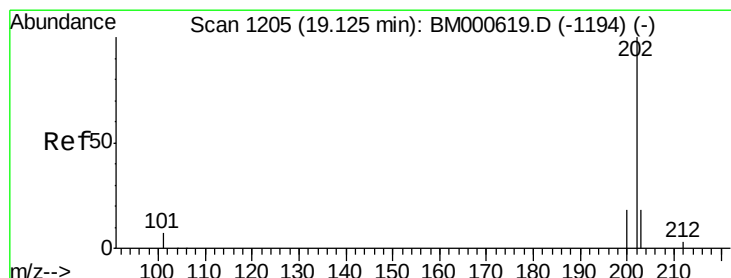
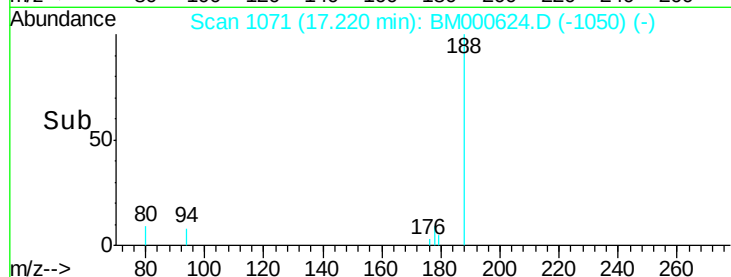
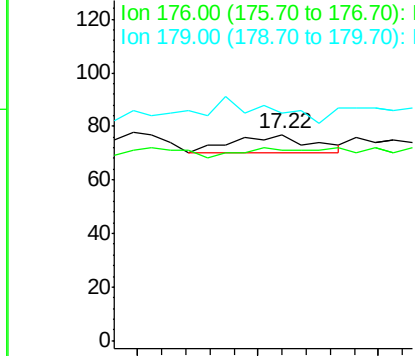
#15  
 Anthracene  
 Concen: 0.00 ng/ul  
 RT: 17.22 min Scan# 1071  
 Delta R.T. 0.03 min  
 Lab File: BM000624.D  
 Acq: 03 Mar 2015 19:47

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-02-W

Tgt Ion:178 Resp: 32  
 Ion Ratio Lower Upper  
 178 100  
 176 92.2 14.2 21.4#  
 179 110.4 12.8 19.2#

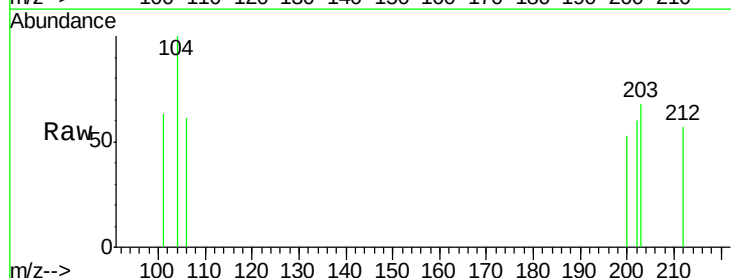


Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 176.00 (175.70 to 176.70): E  
 Ion 179.00 (178.70 to 179.70): E

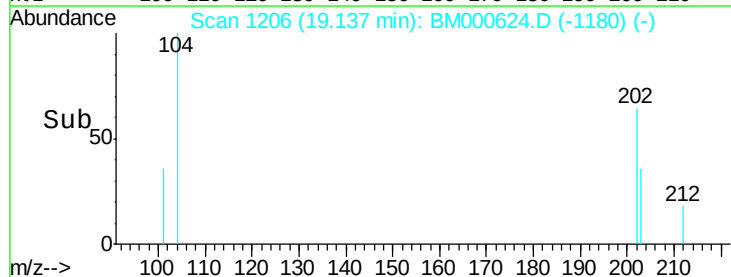
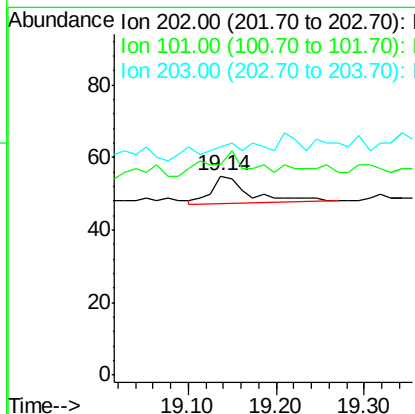


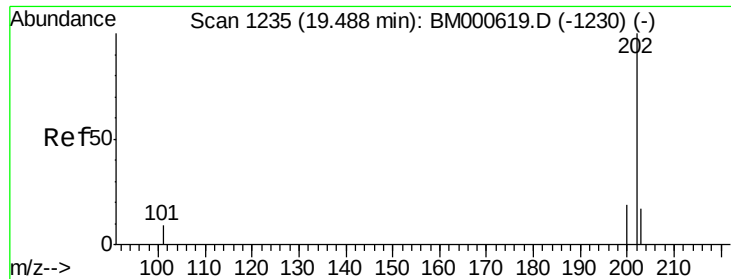
#17  
 Fluoranthene  
 Concen: 0.00 ng/ul  
 RT: 19.14 min Scan# 1206  
 Delta R.T. 0.01 min  
 Lab File: BM000624.D  
 Acq: 03 Mar 2015 19:47

Tgt Ion:202 Resp: 25  
 Ion Ratio Lower Upper  
 202 100  
 101 105.5 0.0 27.0#  
 203 114.5 0.0 38.5#



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





#19

Pyrene

Concen: 0.00 ng/ul

RT: 19.50 min Scan# 1236

Delta R.T. 0.01 min

Lab File: BM000624.D

Acq: 03 Mar 2015 19:47

Instrument :

BNA\_M

ClientSampleId :

MDL-02-W

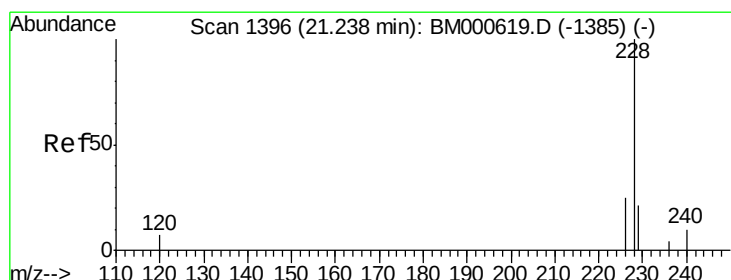
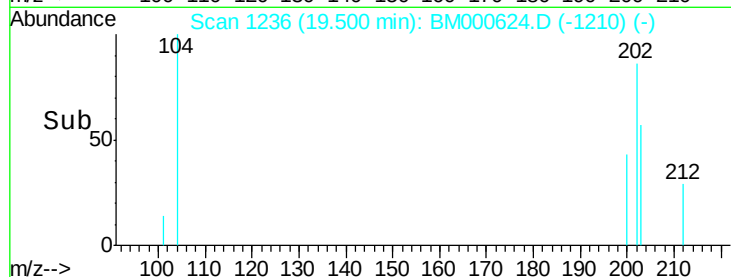
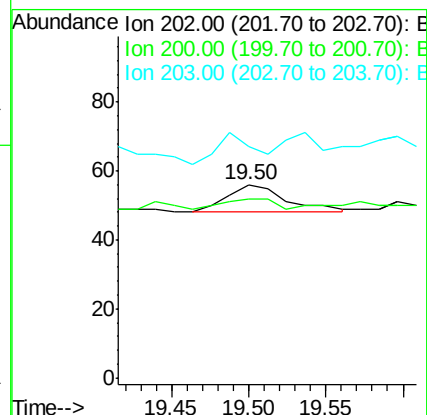
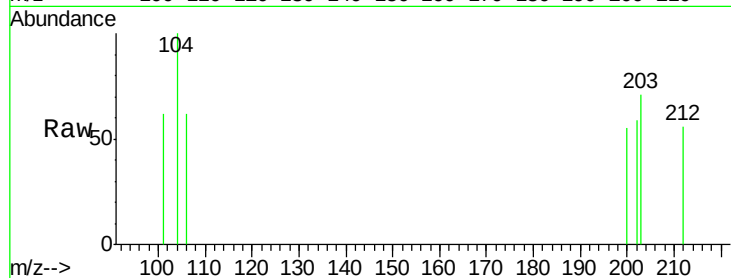
Tgt Ion:202 Resp: 22

Ion Ratio Lower Upper

202 100

200 92.9 15.5 23.3#

203 119.6 14.2 21.2#



#20

Benzo(a)anthracene

Concen: 0.00 ng/ul

RT: 21.25 min Scan# 1397

Delta R.T. 0.01 min

Lab File: BM000624.D

Acq: 03 Mar 2015 19:47

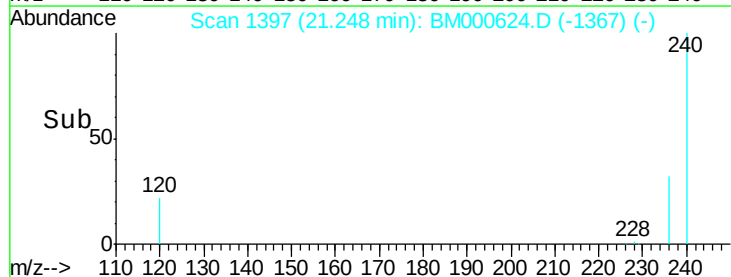
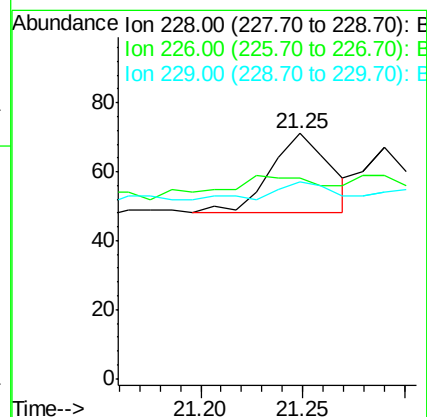
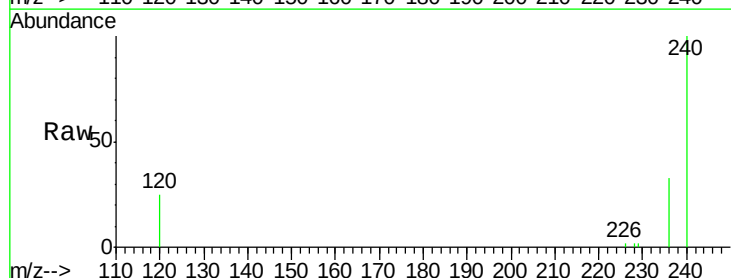
Tgt Ion:228 Resp: 47

Ion Ratio Lower Upper

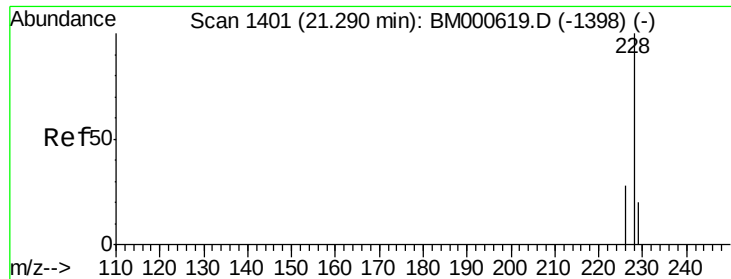
228 100

226 81.7 20.0 30.0#

229 80.3 16.7 25.1#







#21

Chrysene

Concen: 0.00 ng/ul

RT: 21.25 min Scan# 1397

Delta R.T. -0.04 min

Lab File: BM000624.D

Acq: 03 Mar 2015 19:47

Instrument :

BNA\_M

ClientSampleId :

MDL-02-W

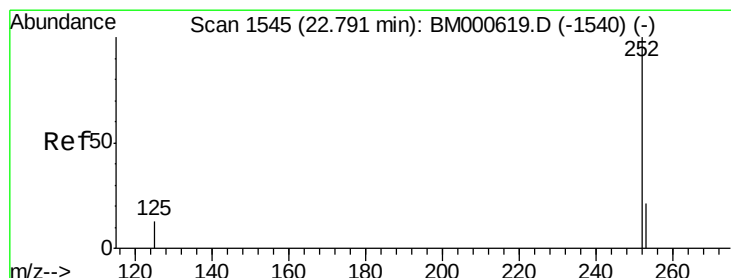
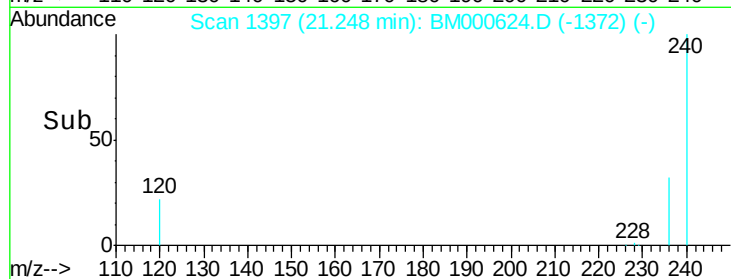
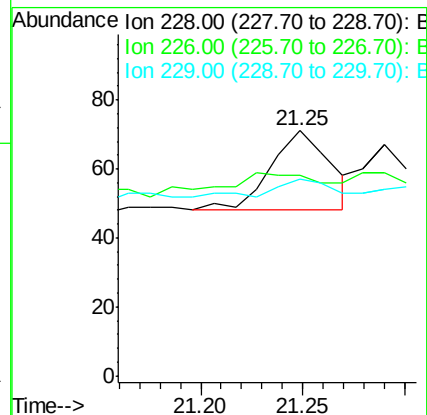
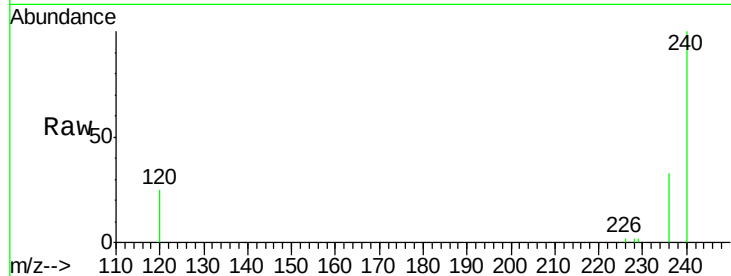
Tgt Ion:228 Resp: 47

Ion Ratio Lower Upper

228 100

226 81.7 22.6 33.8#

229 80.3 16.4 24.6#



#23

Benzo(b)fluoranthene

Concen: 0.04 ng/ul

RT: 22.66 min Scan# 1532

Delta R.T. -0.14 min

Lab File: BM000624.D

Acq: 03 Mar 2015 19:47

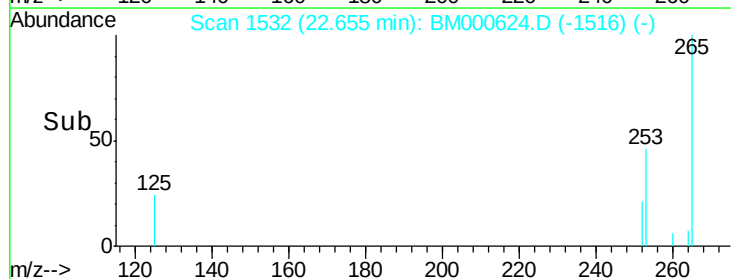
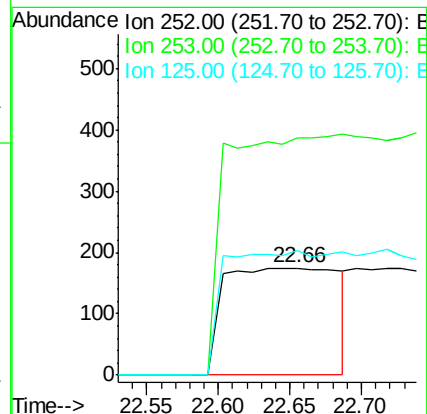
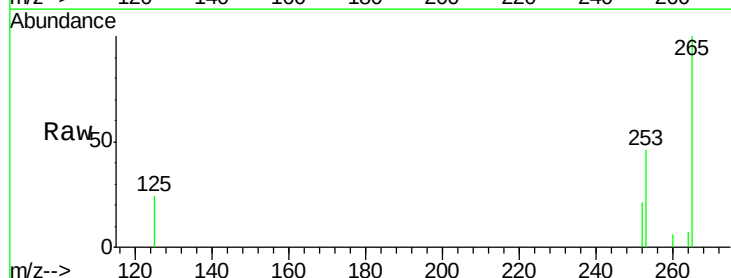
Tgt Ion:252 Resp: 961

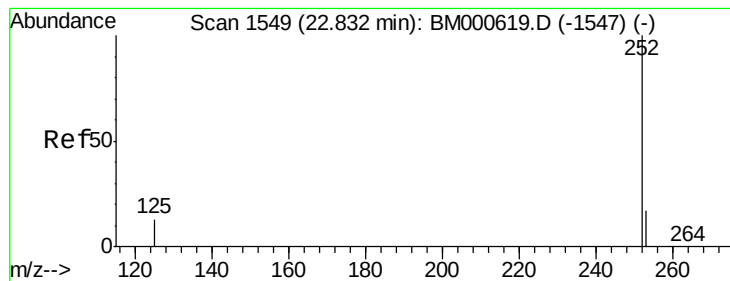
Ion Ratio Lower Upper

252 100

253 222.4 0.0 51.2#

125 117.2 0.0 30.0#





#24

Benzo(k)fluoranthene

Concen: 0.03 ng/ul

RT: 22.66 min Scan# 1532

Delta R.T. -0.18 min

Lab File: BM000624.D

Acq: 03 Mar 2015 19:47

Instrument :

BNA\_M

ClientSampleId :

MDL-02-W

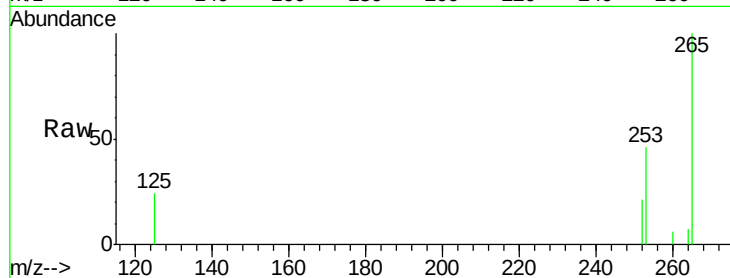
Tgt Ion: 252 Resp: 961

Ion Ratio Lower Upper

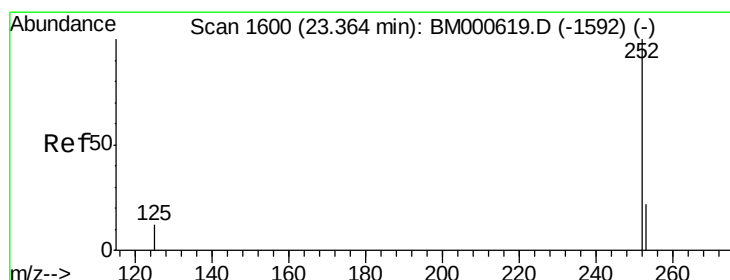
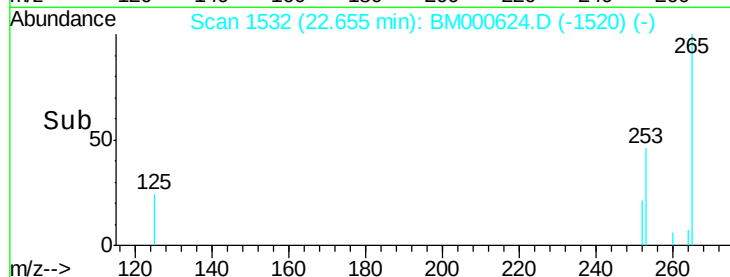
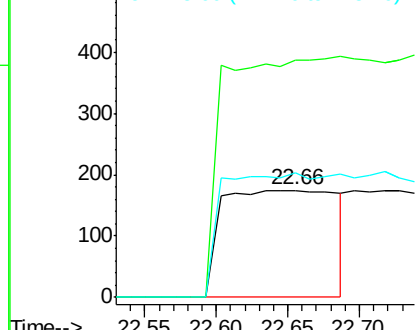
252 100

253 222.4 20.5 30.7#

125 117.2 11.8 17.6#



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



#25

Benzo(a)pyrene

Concen: 0.00 ng/ul

RT: 23.34 min Scan# 1598

Delta R.T. -0.02 min

Lab File: BM000624.D

Acq: 03 Mar 2015 19:47

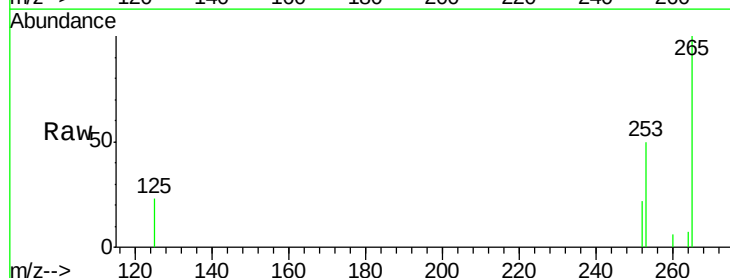
Tgt Ion: 252 Resp: 19

Ion Ratio Lower Upper

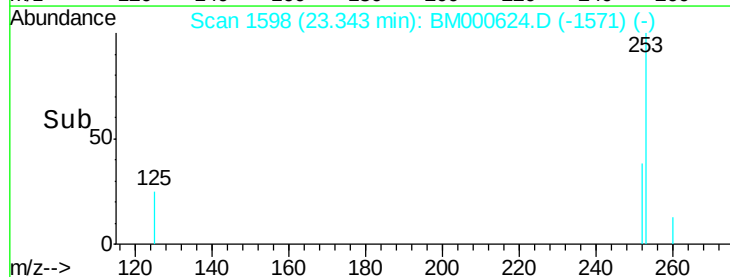
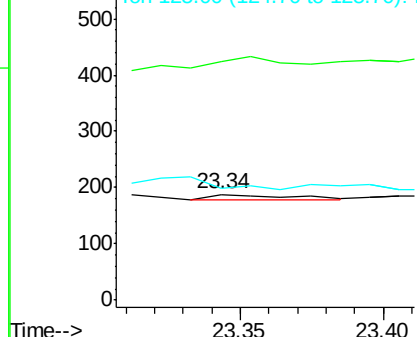
252 100

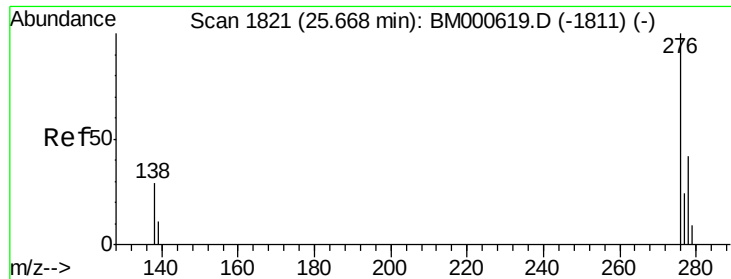
253 225.5 23.4 35.0#

125 105.9 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





#26

Indeno(1,2,3-cd)pyrene

Concen: 0.00 ng/ul

RT: 25.72 min Scan# 1826

Delta R.T. 0.05 min

Lab File: BM000624.D

Acq: 03 Mar 2015 19:47

Instrument :

BNA\_M

ClientSampleId :

MDL-02-W

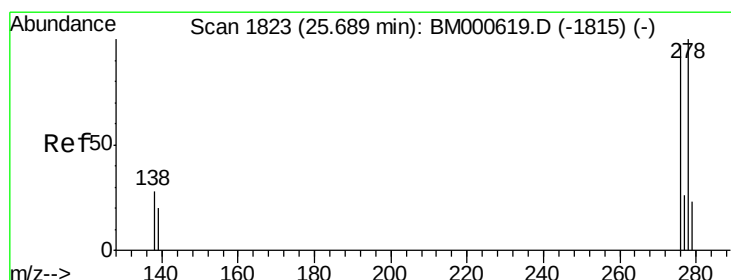
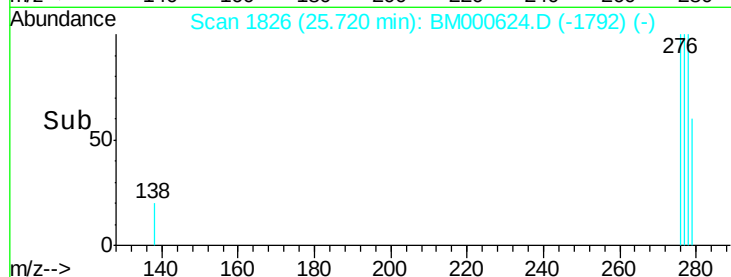
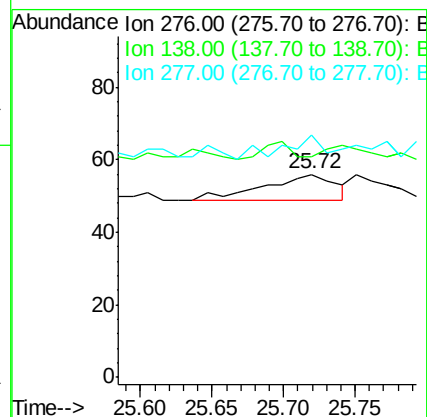
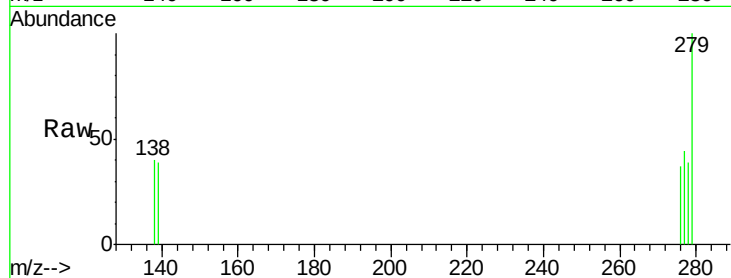
Tgt Ion: 276 Resp: 24

Ion Ratio Lower Upper

276 100

138 0.0 23.8 35.8#

277 62.5 19.7 29.5#



#27

Dibenzo(a,h)anthracene

Concen: 0.00 ng/ul

RT: 25.64 min Scan# 1818

Delta R.T. -0.05 min

Lab File: BM000624.D

Acq: 03 Mar 2015 19:47

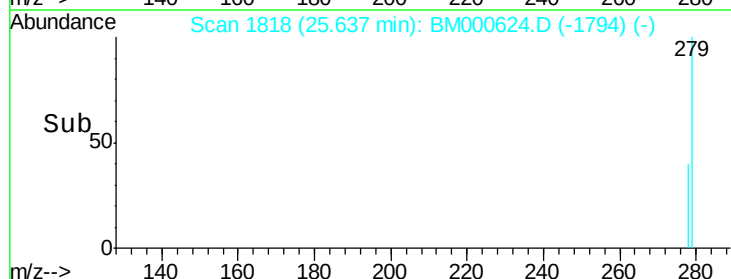
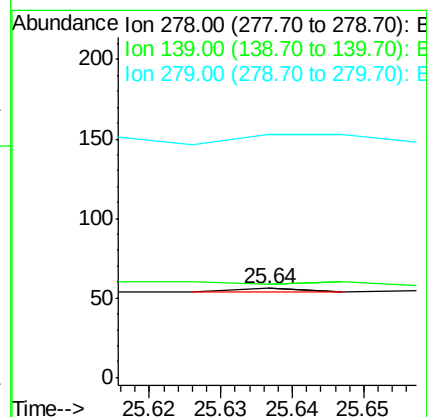
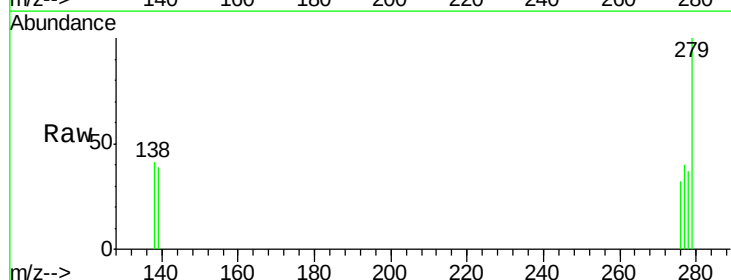
Tgt Ion: 278 Resp: 1

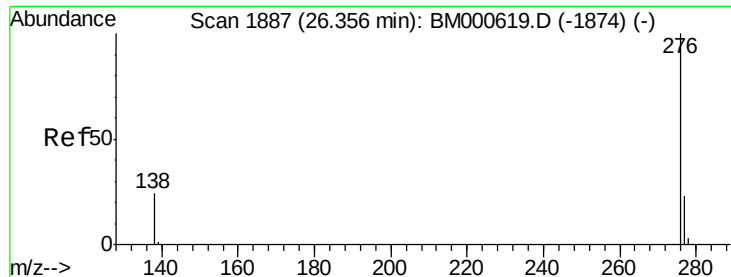
Ion Ratio Lower Upper

278 100

139 105.4 17.0 25.6#

279 273.2 22.3 33.5#





#28

Benzo(g,h,i)perylene

Concen: 0.00 ng/ul

RT: 26.39 min Scan# 1890

Delta R.T. 0.03 min

Lab File: BM000624.D

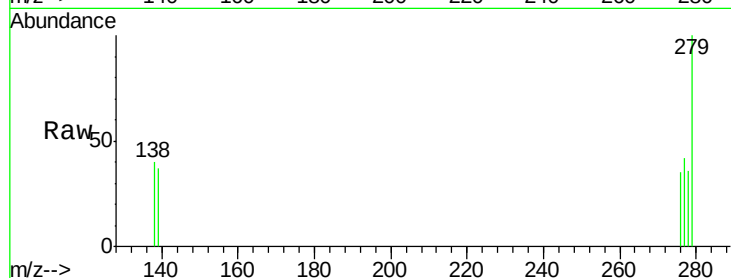
Acq: 03 Mar 2015 19:47

Instrument :

BNA\_M

ClientSampleId :

MDL-02-W



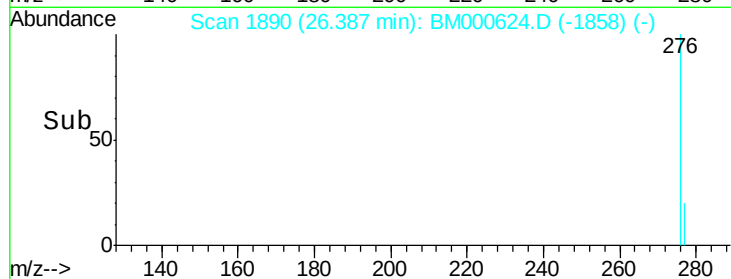
Tgt Ion: 276 Resp: 27

Ion Ratio Lower Upper

276 100

277 118.2 19.9 29.9#

138 114.5 20.6 30.8#



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

