

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM120216\  
 Data File : BM008177.D  
 Acq On : 03 Dec 2016 03:35  
 Operator : UM/SJ  
 Sample : H5730-08DL 2X  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4WH4DL

Quant Time: Dec 03 04:56:41 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Dec 03 04:54:05 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.71  | 152  | 561      | 0.40 | ng/ul | -0.02    |
| 2) Naphthalene-d8         | 10.48 | 136  | 1851     | 0.40 | ng/ul | -0.02    |
| 6) Acenaphthene-d10       | 14.33 | 164  | 1062     | 0.40 | ng/ul | -0.02    |
| 10) Phenanthrene-d10      | 17.07 | 188  | 1859     | 0.40 | ng/ul | -0.03    |
| 16) Chrysene-d12          | 21.29 | 240  | 1628     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.52 | 264  | 1674     | 0.40 | ng/ul | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.09 | 152  | 312      | 0.12 | ng/ul | -0.01    |
| 14) Fluoranthene-d10        | 19.13 | 212  | 691      | 0.13 | ng/ul | 0.00     |

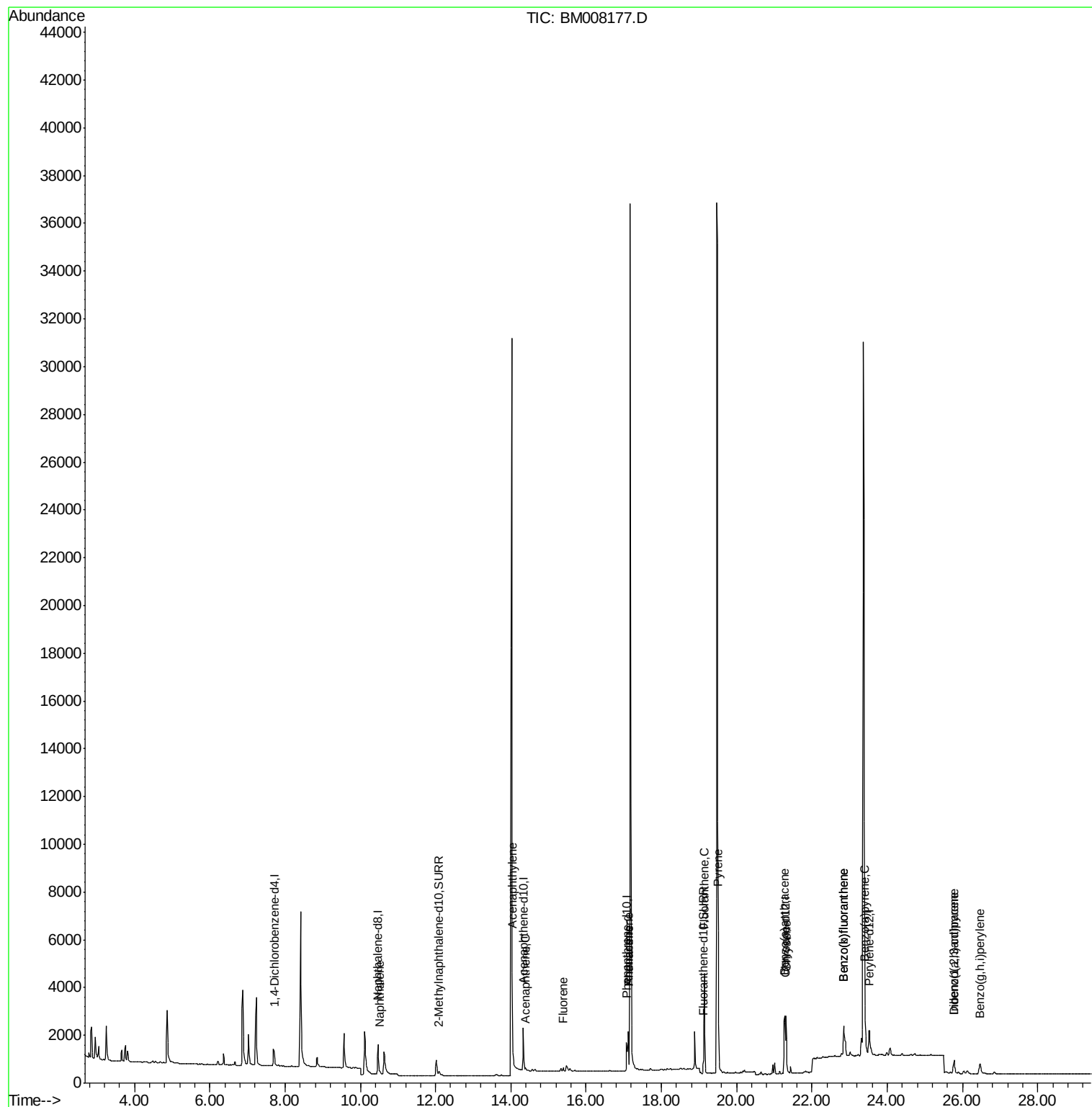
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.52 | 128  | 154      | 0.03 | ng/ul# | 26     |
| 7) Acenaphthylene          | 14.04 | 152  | 97       | 0.02 | ng/ul# | 6      |
| 8) Acenaphthene            | 14.38 | 153  | 79       | 0.02 | ng/ul# | 84     |
| 9) Fluorene                | 15.39 | 166  | 111      | 0.03 | ng/ul# | 81     |
| 12) Phenanthrene           | 17.12 | 178  | 2285     | 0.39 | ng/ul  | 93     |
| 13) Anthracene             | 17.12 | 178  | 2285     | 0.42 | ng/ul  | 95     |
| 15) Fluoranthene           | 19.15 | 202  | 4243     | 0.57 | ng/ul  | 96     |
| 17) Pyrene                 | 19.51 | 202  | 5493     | 0.97 | ng/ul  | 97     |
| 18) Benzo(a)anthracene     | 21.27 | 228  | 2104     | 0.42 | ng/ul  | 95     |
| 19) Chrysene               | 21.32 | 228  | 2587     | 0.42 | ng/ul  | 95     |
| 21) Benzo(b)fluoranthene   | 22.85 | 252  | 3050     | 0.46 | ng/ul  | 92     |
| 22) Benzo(k)fluoranthene   | 22.85 | 252  | 3050     | 0.44 | ng/ul# | 90     |
| 23) Benzo(a)pyrene         | 23.41 | 252  | 1914     | 0.31 | ng/ul  | 95     |
| 24) Indeno(1,2,3-cd)pyrene | 25.78 | 276  | 1057     | 0.14 | ng/ul# | 90     |
| 25) Dibenzo(a,h)anthracene | 25.78 | 278  | 268      | 0.04 | ng/ul# | 13     |
| 26) Benzo(g,h,i)perylene   | 26.47 | 276  | 1031     | 0.15 | ng/ul# | 86     |

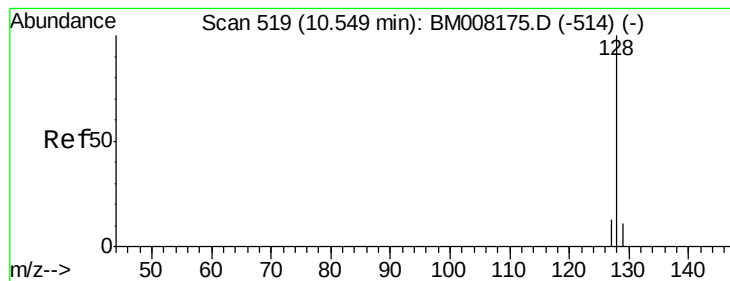
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM120216\  
Data File : BM008177.D  
Acq On : 03 Dec 2016 03:35  
Operator : UM/SJ  
Sample : H5730-08DL 2X  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
A4WH4DL

Quant Time: Dec 03 04:56:41 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM112116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Dec 03 04:54:05 2016  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.03 ng/ul

RT: 10.52 min Scan# 517

Delta R.T. -0.02 min

Lab File: BM008177.D

Acq: 03 Dec 2016 03:35

Instrument :

BNA\_M

ClientSampleId :

A4WH4DL

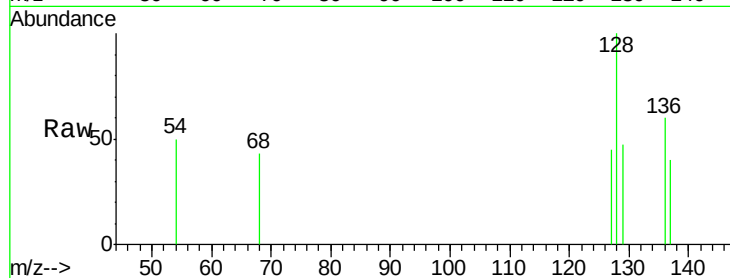
Tgt Ion:128 Resp: 154

Ion Ratio Lower Upper

128 100

129 47.3 11.3 16.9#

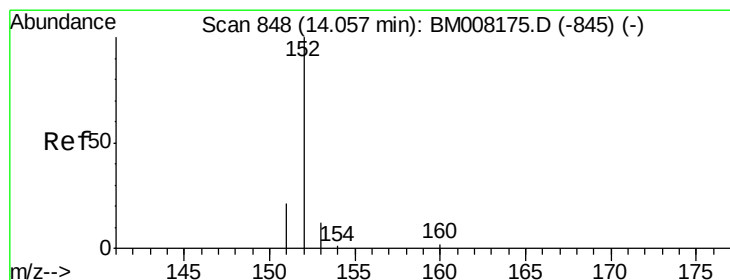
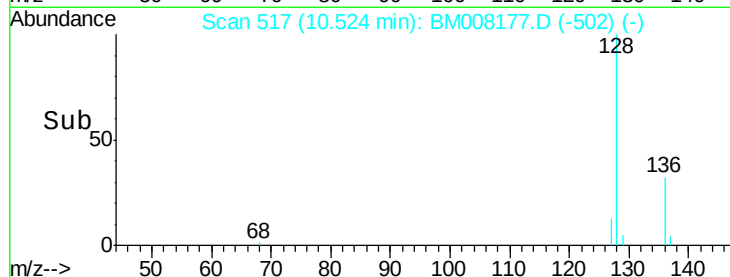
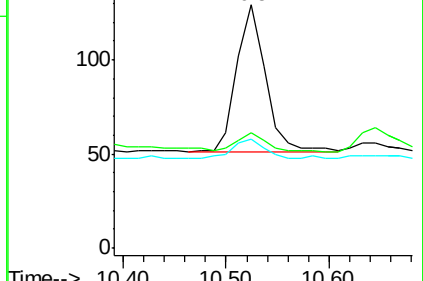
127 45.0 12.8 19.2#



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

Acenaphthylene

Concen: 0.02 ng/ul

RT: 14.04 min Scan# 847

Delta R.T. -0.02 min

Lab File: BM008177.D

Acq: 03 Dec 2016 03:35

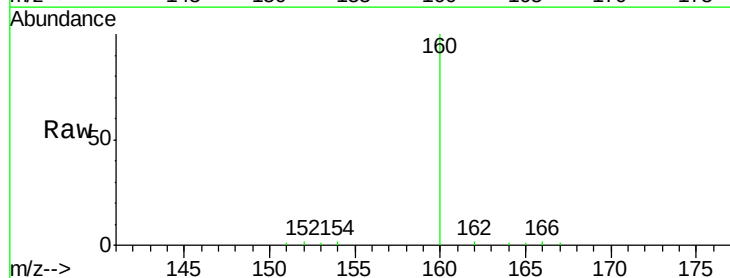
Tgt Ion:152 Resp: 97

Ion Ratio Lower Upper

152 100

151 63.4 17.1 25.7#

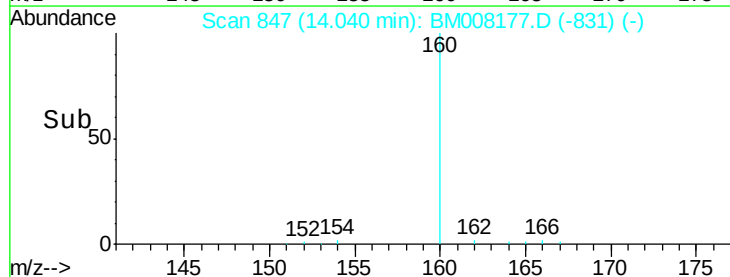
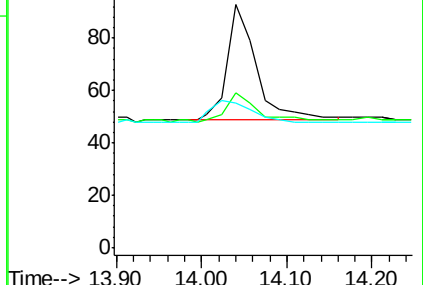
153 59.1 12.8 19.2#

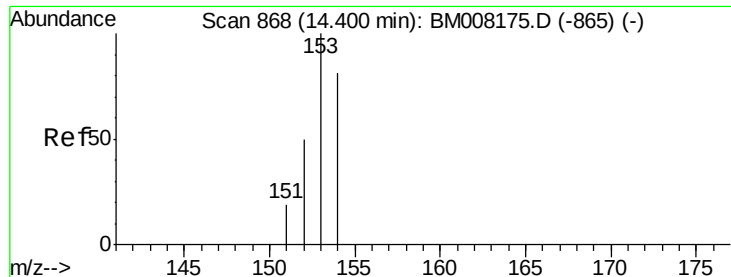


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#8

Acenaphthene

Concen: 0.02 ng/ul

RT: 14.38 min Scan# 867

Delta R.T. -0.02 min

Lab File: BM008177.D

Acq: 03 Dec 2016 03:35

Instrument :

BNA\_M

ClientSampleId :

A4WH4DL

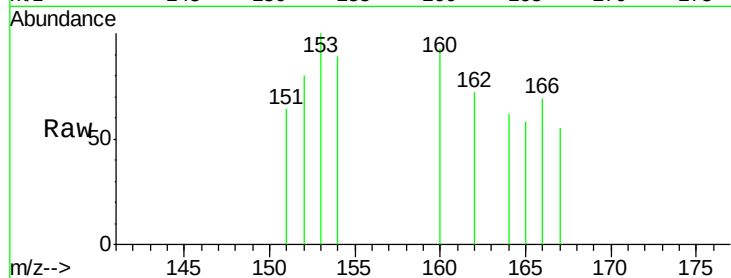
Tgt Ion:153 Resp: 79

Ion Ratio Lower Upper

153 100

152 79.8 40.3 60.5#

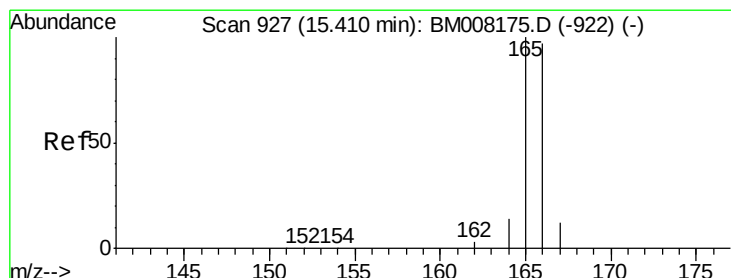
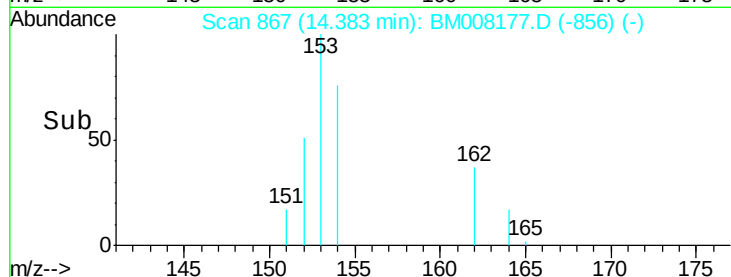
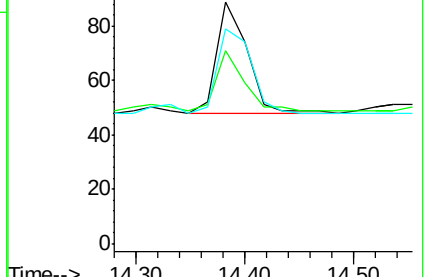
154 88.8 71.4 107.2



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



#9

Fluorene

Concen: 0.03 ng/ul

RT: 15.39 min Scan# 926

Delta R.T. -0.02 min

Lab File: BM008177.D

Acq: 03 Dec 2016 03:35

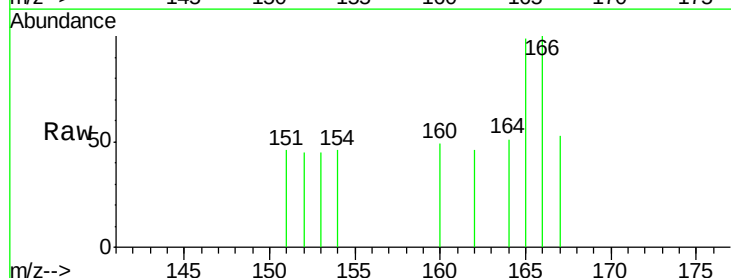
Tgt Ion:166 Resp: 111

Ion Ratio Lower Upper

166 100

165 99.1 73.4 110.2

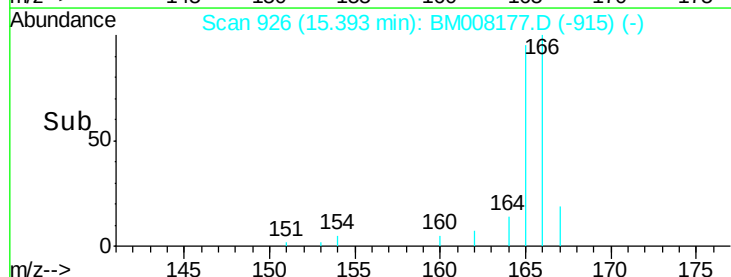
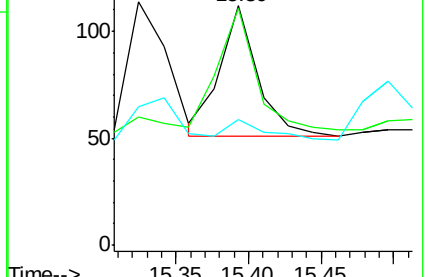
167 52.7 14.6 22.0#

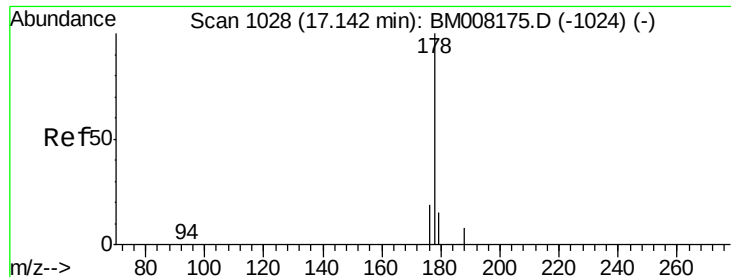


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#12

Phenanthrene

Concen: 0.39 ng/ul

RT: 17.12 min Scan# 1027

Delta R.T. -0.02 min

Lab File: BM008177.D

Acq: 03 Dec 2016 03:35

Instrument :

BNA\_M

ClientSampleId :

A4WH4DL

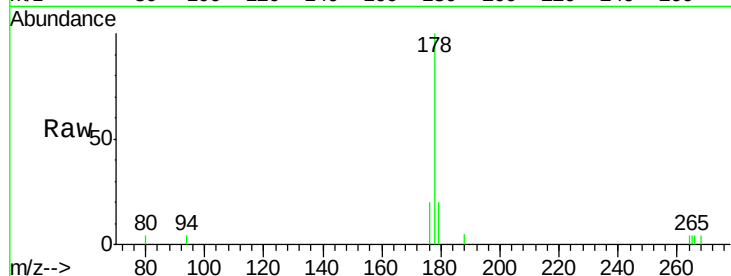
Tgt Ion:178 Resp: 2285

Ion Ratio Lower Upper

178 100

176 20.2 18.4 27.6

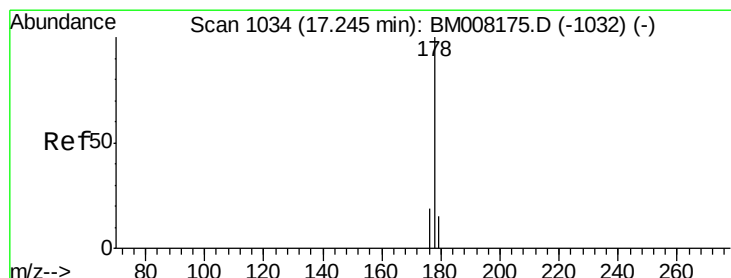
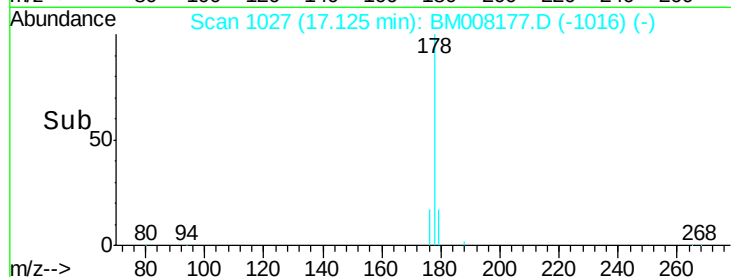
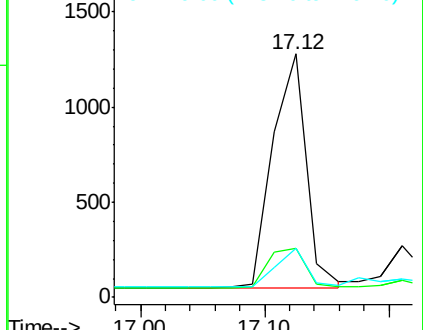
179 20.3 13.6 20.4



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



#13

Anthracene

Concen: 0.42 ng/ul

RT: 17.12 min Scan# 1027

Delta R.T. -0.12 min

Lab File: BM008177.D

Acq: 03 Dec 2016 03:35

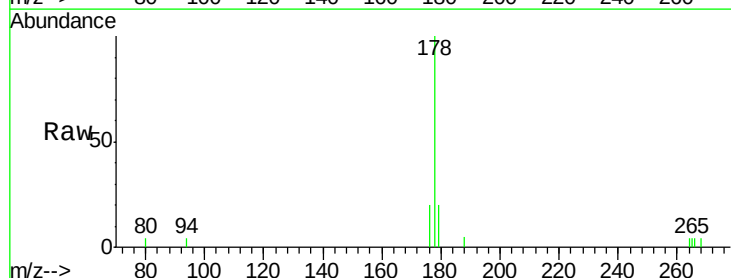
Tgt Ion:178 Resp: 2285

Ion Ratio Lower Upper

178 100

176 20.2 18.1 27.1

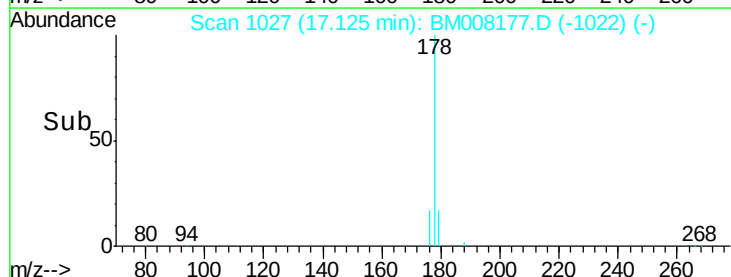
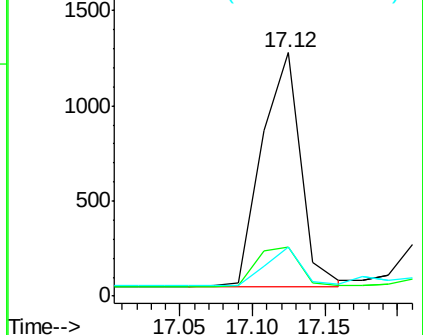
179 20.3 14.7 22.1

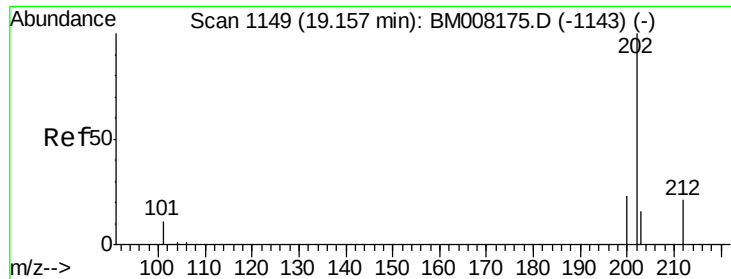


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

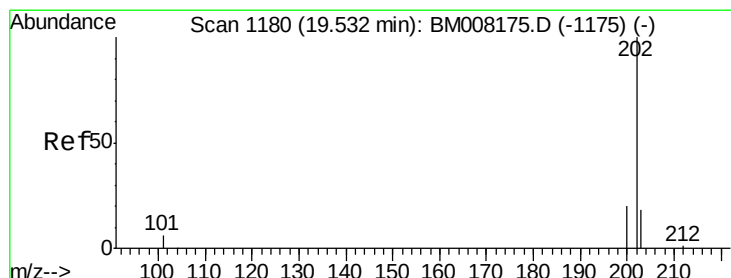
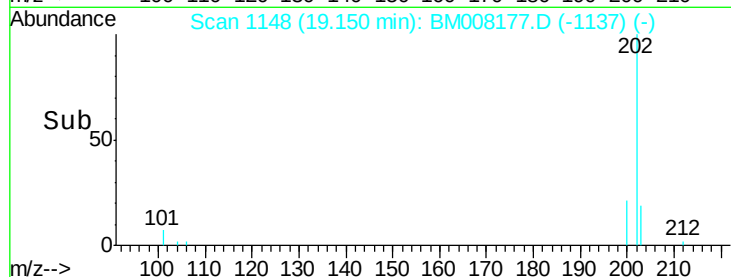
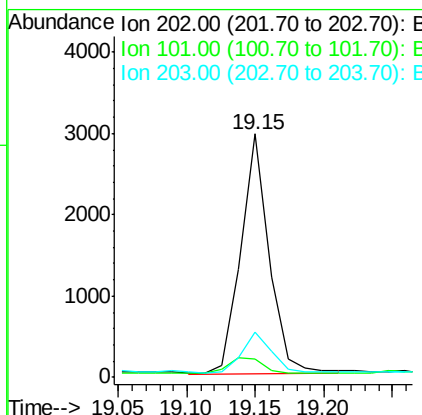
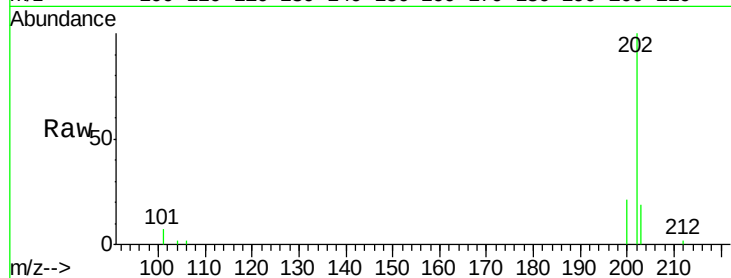




#15  
Fluoranthene  
Concen: 0.57 ng/ul  
RT: 19.15 min Scan# 1148  
Delta R.T. -0.01 min  
Lab File: BM008177.D  
Acq: 03 Dec 2016 03:35

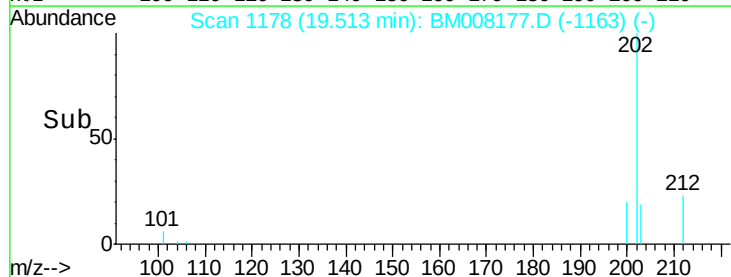
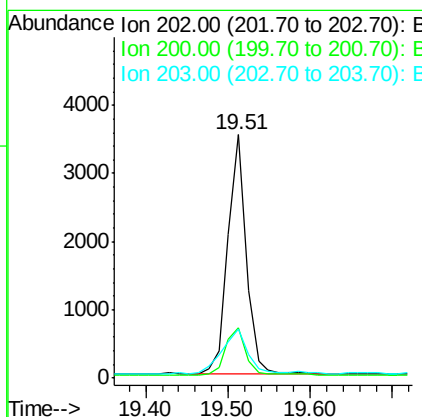
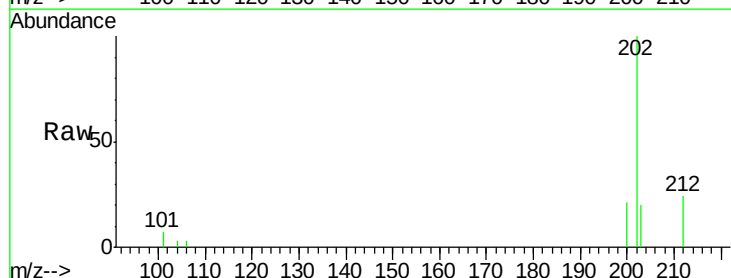
Instrument :  
BNA\_M  
ClientSampleId :  
A4WH4DL

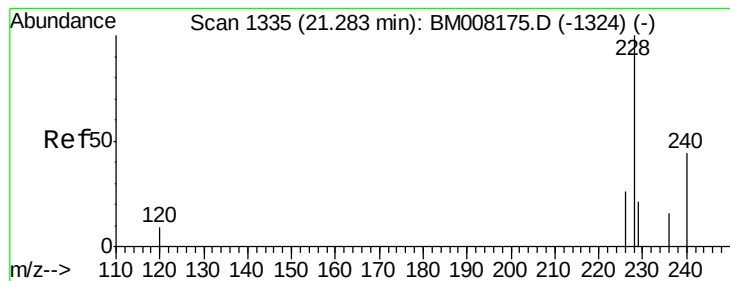
Tgt Ion:202 Resp: 4243  
Ion Ratio Lower Upper  
202 100  
101 7.3 0.0 30.3  
203 18.7 0.0 39.5



#17  
Pyrene  
Concen: 0.97 ng/ul  
RT: 19.51 min Scan# 1178  
Delta R.T. -0.02 min  
Lab File: BM008177.D  
Acq: 03 Dec 2016 03:35

Tgt Ion:202 Resp: 5493  
Ion Ratio Lower Upper  
202 100  
200 20.9 18.2 27.4  
203 20.1 15.6 23.4





#18

Benzo(a)anthracene

Concen: 0.42 ng/ul

RT: 21.27 min Scan# 1333

Delta R.T. -0.02 min

Lab File: BM008177.D

Acq: 03 Dec 2016 03:35

Instrument :

BNA\_M

ClientSampleId :

A4WH4DL

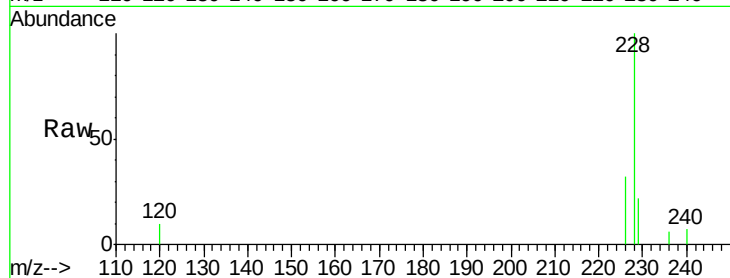
Tgt Ion:228 Resp: 2104

Ion Ratio Lower Upper

228 100

226 32.3 22.8 34.2

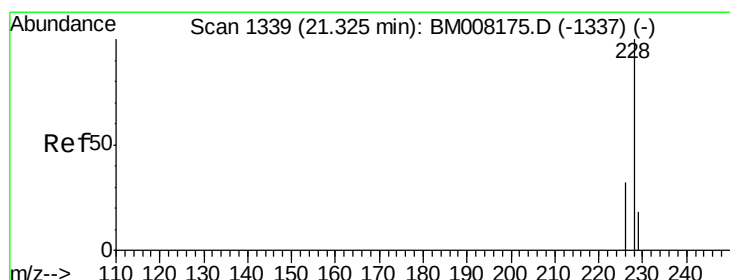
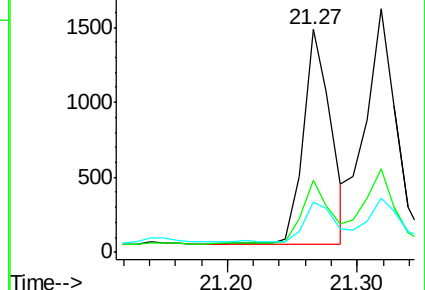
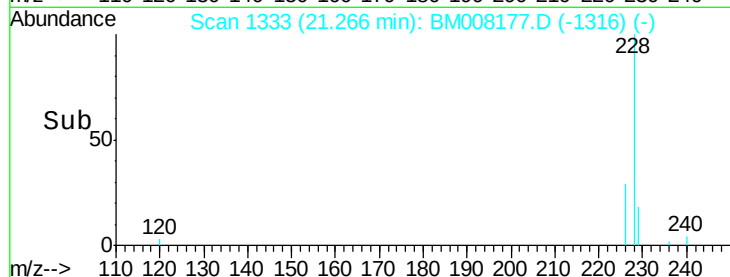
229 22.3 17.0 25.6



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



#19

Chrysene

Concen: 0.42 ng/ul

RT: 21.32 min Scan# 1338

Delta R.T. -0.01 min

Lab File: BM008177.D

Acq: 03 Dec 2016 03:35

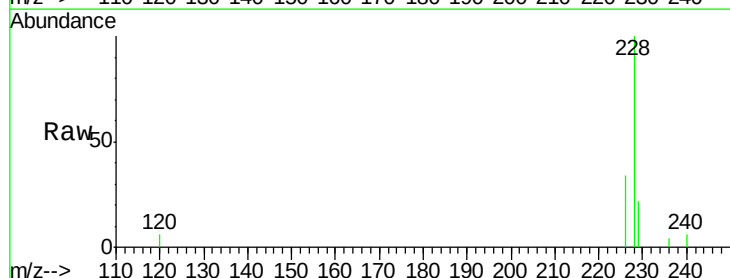
Tgt Ion:228 Resp: 2587

Ion Ratio Lower Upper

228 100

226 34.2 23.4 35.0

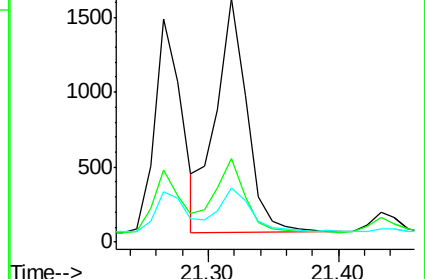
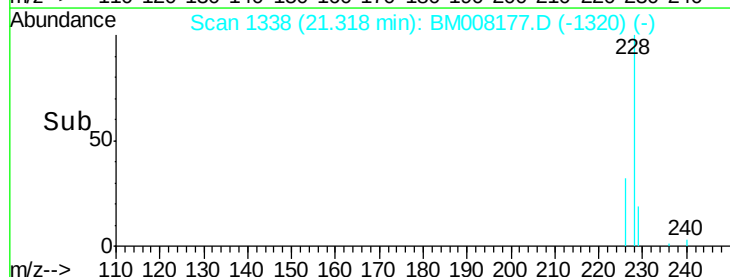
229 22.2 17.7 26.5

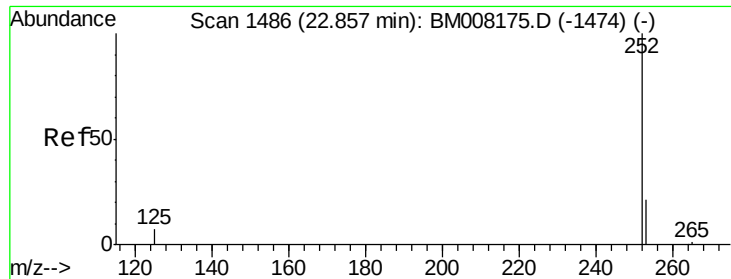


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Benzo(b)fluoranthene

Concen: 0.46 ng/ul

RT: 22.85 min Scan# 1485

Delta R.T. -0.01 min

Lab File: BM008177.D

Acq: 03 Dec 2016 03:35

Instrument :

BNA\_M

ClientSampleId :

A4WH4DL

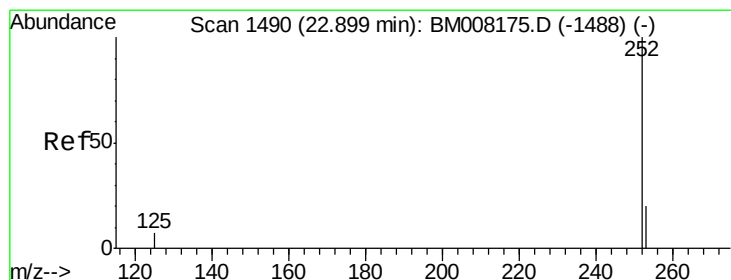
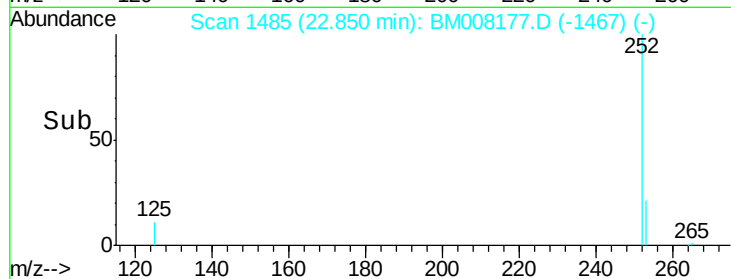
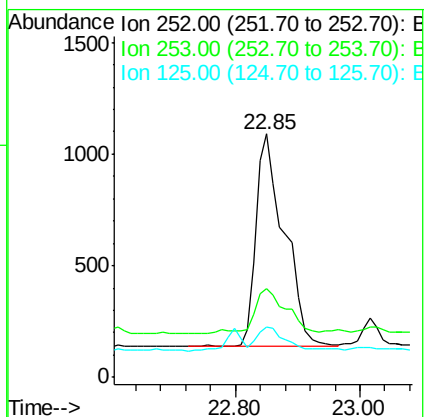
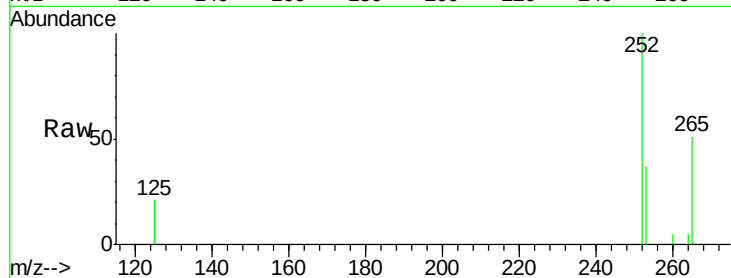
Tgt Ion:252 Resp: 3050

Ion Ratio Lower Upper

252 100

253 36.7 0.0 64.2

125 20.9 0.0 35.0



#22

Benzo(k)fluoranthene

Concen: 0.44 ng/ul

RT: 22.85 min Scan# 1485

Delta R.T. -0.05 min

Lab File: BM008177.D

Acq: 03 Dec 2016 03:35

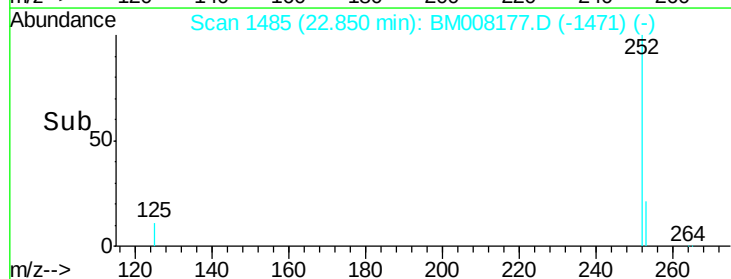
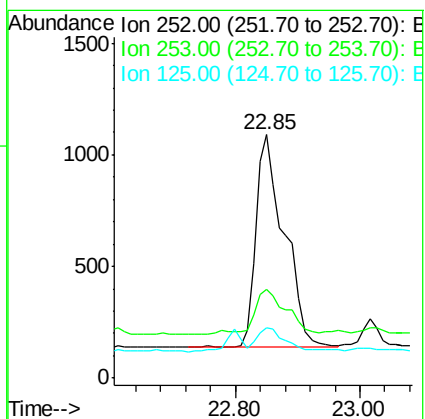
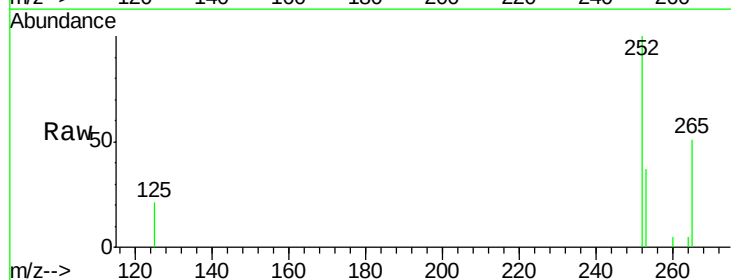
Tgt Ion:252 Resp: 3050

Ion Ratio Lower Upper

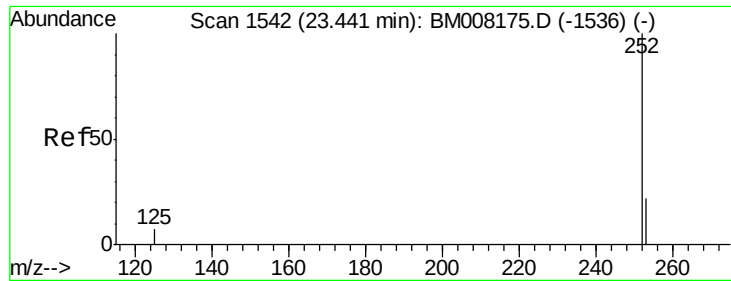
252 100

253 36.7 24.5 36.7

125 20.9 13.7 20.5#







#23

Benzo(a)pyrene

Concen: 0.31 ng/ul

RT: 23.41 min Scan# 1539

Delta R.T. -0.03 min

Lab File: BM008177.D

Acq: 03 Dec 2016 03:35

Instrument :

BNA\_M

ClientSampleId :

A4WH4DL

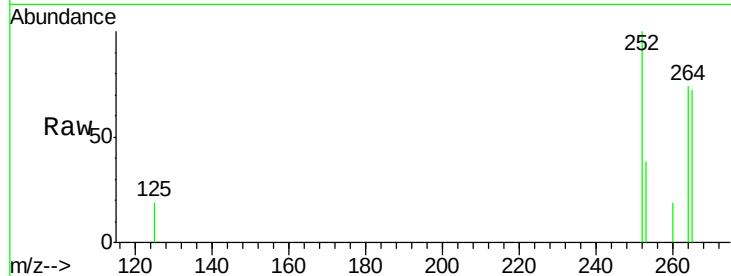
Tgt Ion: 252 Resp: 1914

Ion Ratio Lower Upper

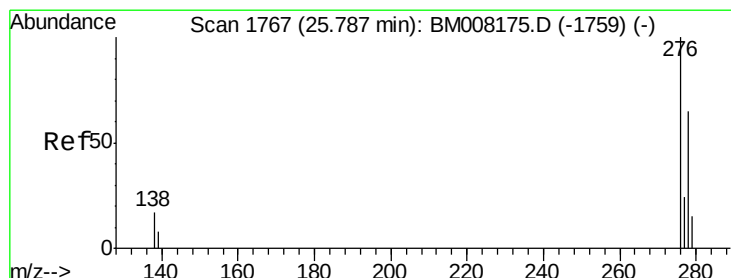
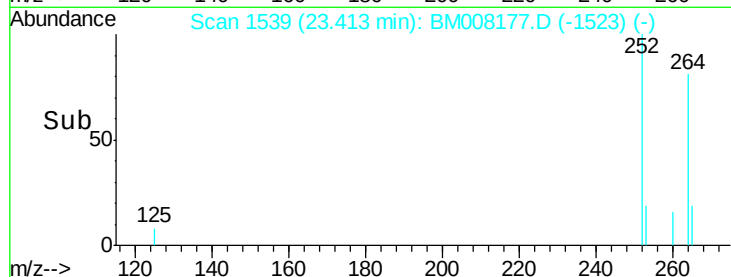
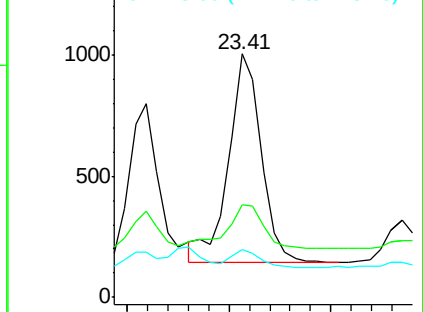
252 100

253 37.9 28.5 42.7

125 19.4 18.1 27.1



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

Indeno(1,2,3-cd)pyrene

Concen: 0.14 ng/ul

RT: 25.78 min Scan# 1766

Delta R.T. -0.01 min

Lab File: BM008177.D

Acq: 03 Dec 2016 03:35

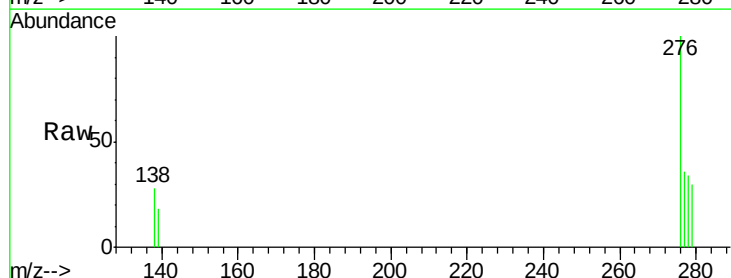
Tgt Ion: 276 Resp: 1057

Ion Ratio Lower Upper

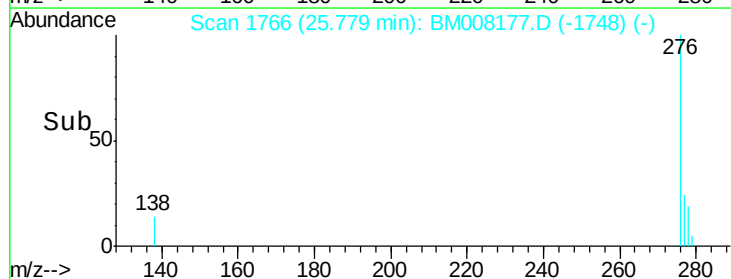
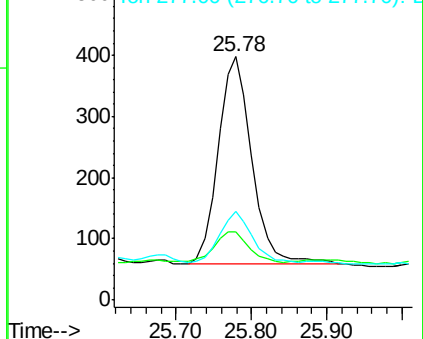
276 100

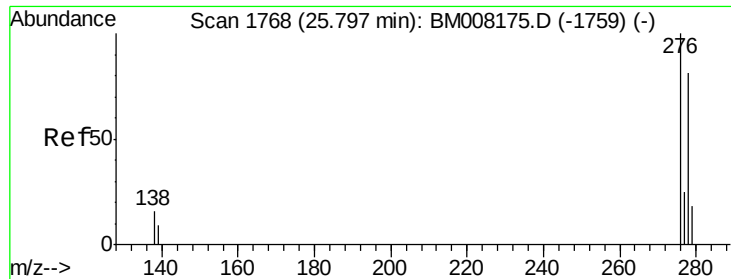
138 14.6 19.1 28.7#

277 23.6 19.6 29.4



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

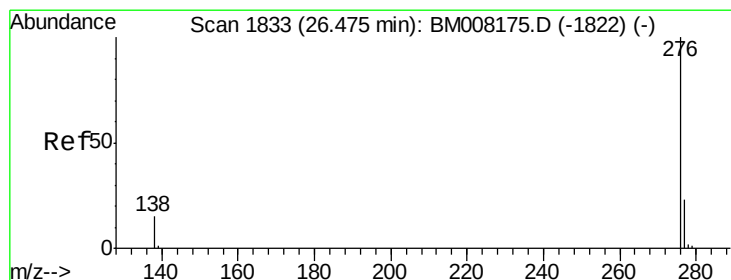
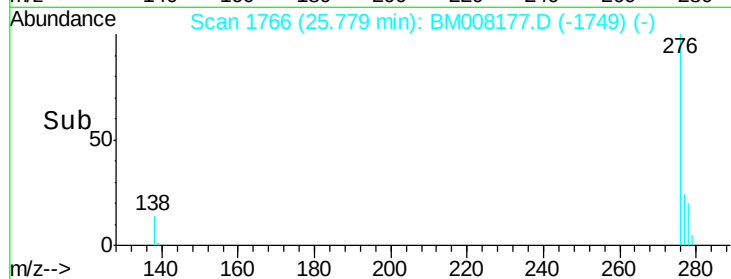
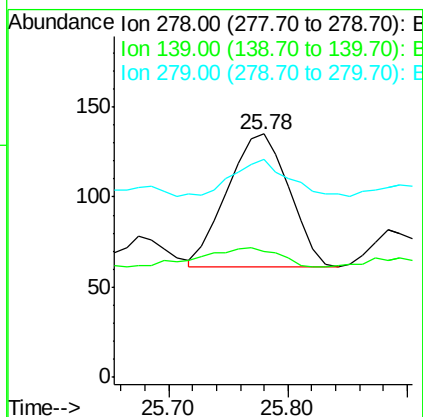
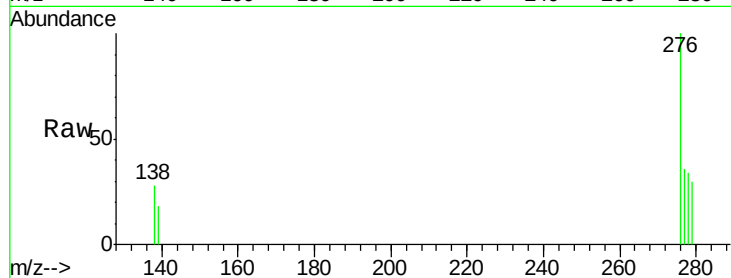




#25  
Dibenzo(a,h)anthracene  
Concen: 0.04 ng/ul  
RT: 25.78 min Scan# 1766  
Delta R.T. -0.02 min  
Lab File: BM008177.D  
Acq: 03 Dec 2016 03:35

Instrument :  
BNA\_M  
ClientSampleId :  
A4WH4DL

Tgt Ion: 278 Resp: 268  
Ion Ratio Lower Upper  
278 100  
139 51.9 17.4 26.0#  
279 89.6 25.9 38.9#



#26  
Benzo(g,h,i)perylene  
Concen: 0.15 ng/ul  
RT: 26.47 min Scan# 1832  
Delta R.T. -0.01 min  
Lab File: BM008177.D  
Acq: 03 Dec 2016 03:35

Tgt Ion: 276 Resp: 1031  
Ion Ratio Lower Upper  
276 100  
277 37.0 21.8 32.8#  
138 30.4 20.5 30.7

