

Data Path : Z:\HPCHEM1\BNA\_M\Data\BM010715\  
 Data File : BM000128.D  
 Acq On : 07 Jan 2015 14:41  
 Operator : TP/IZ  
 Sample : MDL-02-W  
 Misc : MDL-WATER-0.07PPM-SIM  
 ALS Vial : 10 Sample Multiplier: 1

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

Quant Time: Jan 08 03:29:47 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-SIM-BM010715.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jan 08 02:20:43 2015  
 Response via : Initial Calibration

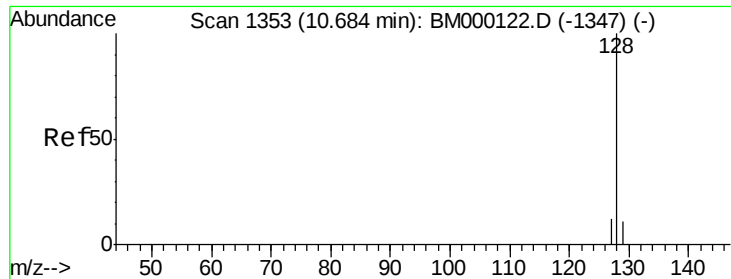
| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.84  | 152  | 2889     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.64 | 136  | 9614     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.47 | 164  | 5634     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.23 | 188  | 10870    | 0.40 | ng/ul | 0.02     |
| 16) Chrysene-d12          | 21.41 | 240  | 9032     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.70 | 264  | 8212     | 0.40 | ng/ul | 0.00     |

|                             |       |     |      |      |       |      |
|-----------------------------|-------|-----|------|------|-------|------|
| System Monitoring Compounds |       |     |      |      |       |      |
| 4) 2-Methylnaphthalene-d10  | 12.22 | 152 | 4535 | 0.36 | ng/ul | 0.00 |
| 14) Fluoranthene-d10        | 19.25 | 212 | 8182 | 0.35 | ng/ul | 0.00 |

|                            |       |     |      |        |        |    |
|----------------------------|-------|-----|------|--------|--------|----|
| Target Compounds           |       |     |      | Qvalue |        |    |
| 3) Naphthalene             | 10.68 | 128 | 1150 | 0.05   | ng/ul# | 85 |
| 5) 2-Methylnaphthalene     | 12.29 | 142 | 765  | 0.04   | ng/ul  | 98 |
| 7) Acenaphthylene          | 12.22 | 152 | 4535 | 0.36   | ng/ul  | 99 |
| 8) Acenaphthene            | 14.54 | 153 | 780  | 0.04   | ng/ul  | 95 |
| 9) Fluorene                | 15.54 | 166 | 946  | 0.05   | ng/ul# | 91 |
| 11) Pentachlorophenol      | 16.90 | 266 | 41   | 0.02   | ng/ul# | 70 |
| 12) Phenanthrene           | 17.26 | 178 | 1503 | 0.04   | ng/ul# | 82 |
| 13) Anthracene             | 17.35 | 178 | 1358 | 0.04   | ng/ul# | 81 |
| 15) Fluoranthene           | 19.28 | 202 | 1766 | 0.05   | ng/ul  | 87 |
| 17) Pyrene                 | 19.65 | 202 | 1822 | 0.05   | ng/ul# | 92 |
| 18) Benzo(a)anthracene     | 21.39 | 228 | 1445 | 0.05   | ng/ul  | 91 |
| 19) Chrysene               | 21.39 | 228 | 1445 | 0.04   | ng/ul  | 96 |
| 21) Benzo(b)fluoranthene   | 23.00 | 252 | 1488 | 0.05   | ng/ul# | 58 |
| 22) Benzo(k)fluoranthene   | 23.05 | 252 | 1424 | 0.05   | ng/ul# | 57 |
| 23) Benzo(a)pyrene         | 23.61 | 252 | 1324 | 0.05   | ng/ul# | 44 |
| 24) Indeno(1,2,3-cd)pyrene | 26.06 | 276 | 1532 | 0.05   | ng/ul  | 98 |
| 25) Dibenzo(a,h)anthracene | 26.08 | 278 | 1270 | 0.05   | ng/ul# | 55 |
| 26) Benzo(g,h,i)perylene   | 26.76 | 276 | 1387 | 0.05   | ng/ul# | 74 |

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





#3

Naphthalene

Concen: 0.05 ng/ul

RT: 10.68 min Scan# 1353

Delta R.T. 0.00 min

Lab File: BM000128.D

Acq: 07 Jan 2015 14:41

Instrument :

BNA\_M

ClientSampleId :

MDL-02-W

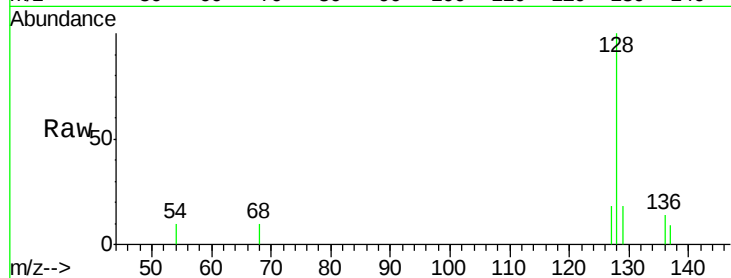
Tgt Ion:128 Resp: 1150

Ion Ratio Lower Upper

128 100

129 18.3 9.5 14.3#

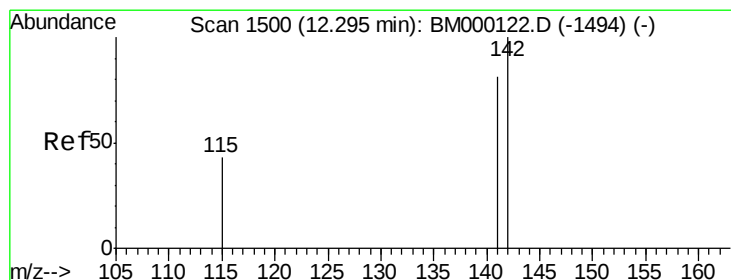
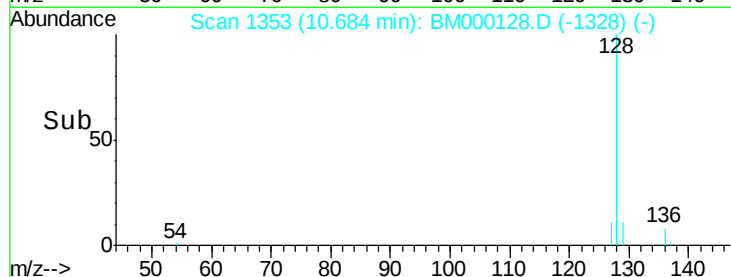
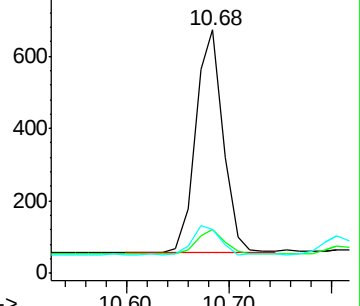
127 18.2 10.4 15.6#



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



#5

2-Methylnaphthalene

Concen: 0.04 ng/ul

RT: 12.29 min Scan# 1500

Delta R.T. 0.00 min

Lab File: BM000128.D

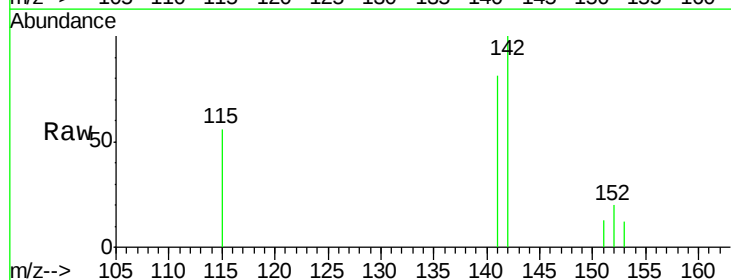
Acq: 07 Jan 2015 14:41

Tgt Ion:142 Resp: 765

Ion Ratio Lower Upper

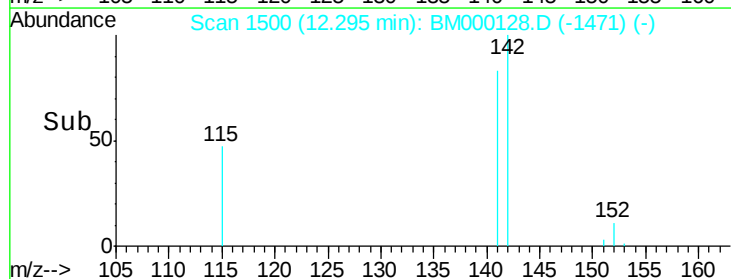
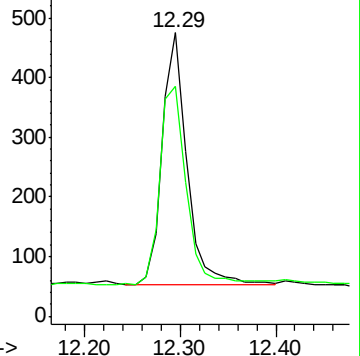
142 100

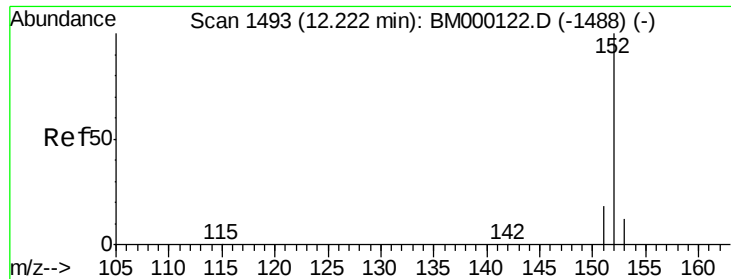
141 84.2 68.9 103.3



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.36 ng/ul

RT: 12.22 min Scan# 1493

Delta R.T. 0.00 min

Lab File: BM000128.D

Acq: 07 Jan 2015 14:41

Instrument :

BNA\_M

ClientSampleId :

MDL-02-W

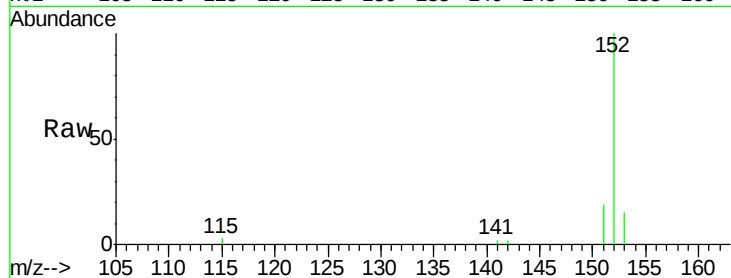
Tgt Ion:152 Resp: 4535

Ion Ratio Lower Upper

152 100

151 19.0 15.4 23.2

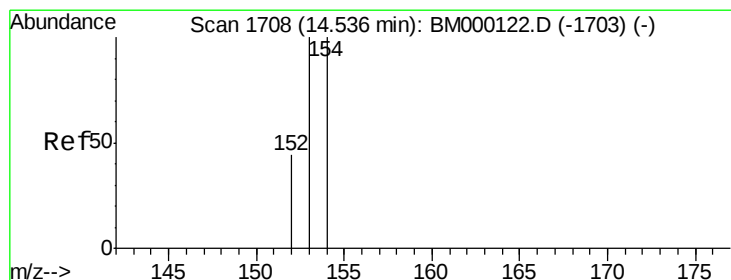
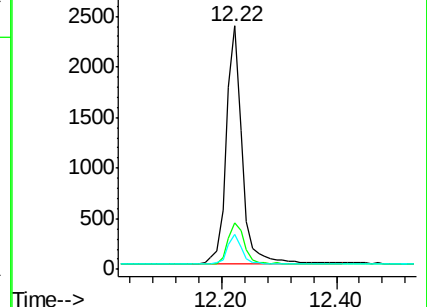
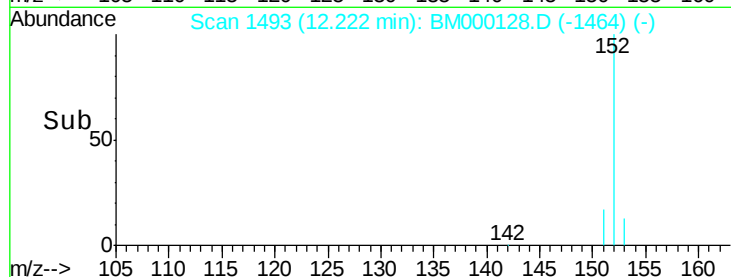
153 14.6 11.0 16.4



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



#8

Acenaphthene

Concen: 0.04 ng/ul

RT: 14.54 min Scan# 1708

Delta R.T. 0.00 min

Lab File: BM000128.D

Acq: 07 Jan 2015 14:41

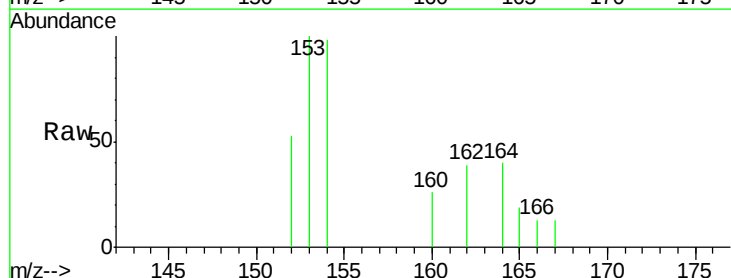
Tgt Ion:153 Resp: 780

Ion Ratio Lower Upper

153 100

152 53.0 35.8 53.6

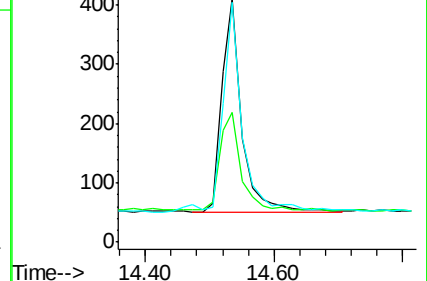
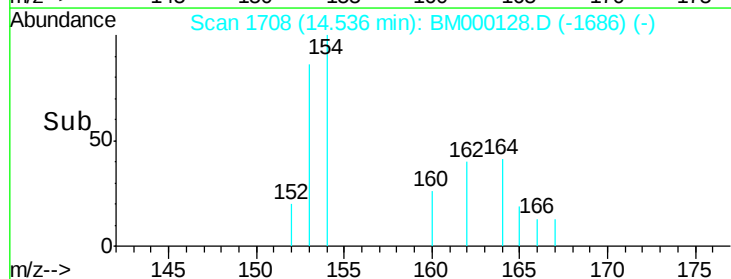
154 98.3 79.9 119.9

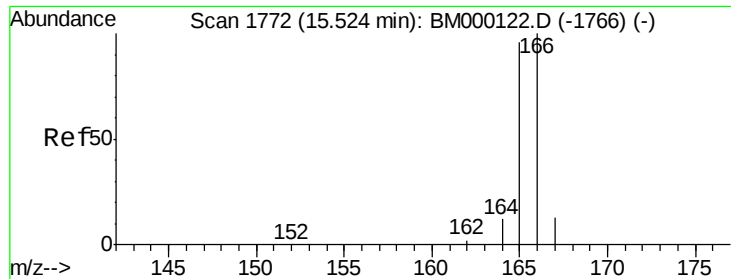


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 0.05 ng/ul

RT: 15.54 min Scan# 1773

Delta R.T. 0.02 min

Lab File: BM000128.D

Acq: 07 Jan 2015 14:41

Instrument :

BNA\_M

ClientSampleId :

MDL-02-W

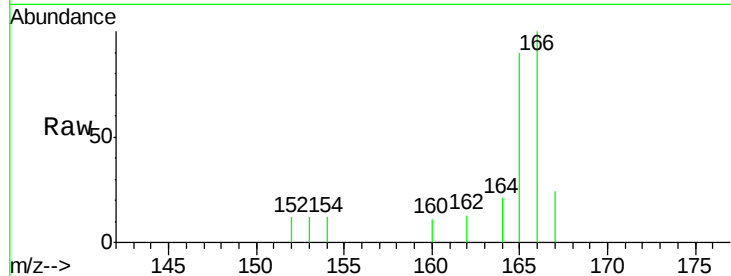
Tgt Ion:166 Resp: 946

Ion Ratio Lower Upper

166 100

165 90.0 77.0 115.4

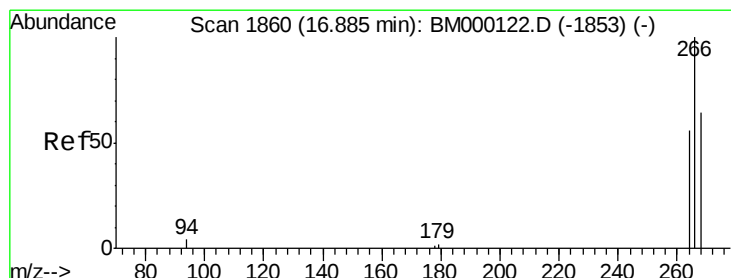
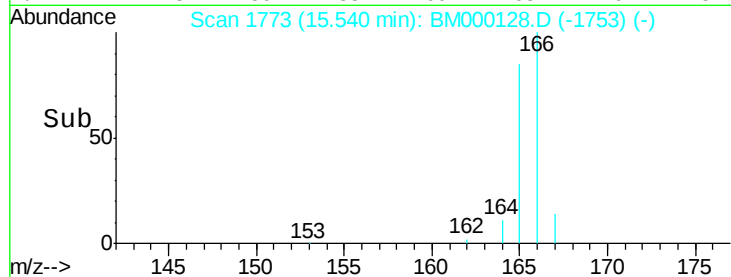
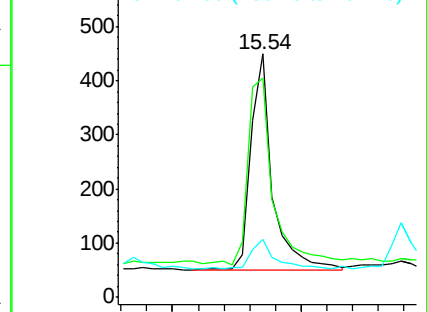
167 24.0 11.0 16.6#



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



#11

Pentachlorophenol

Concen: 0.02 ng/ul

RT: 16.90 min Scan# 1861

Delta R.T. 0.02 min

Lab File: BM000128.D

Acq: 07 Jan 2015 14:41

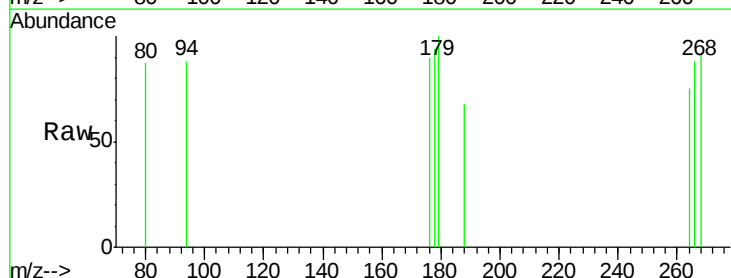
Tgt Ion:266 Resp: 41

Ion Ratio Lower Upper

266 100

264 48.8 53.9 80.9#

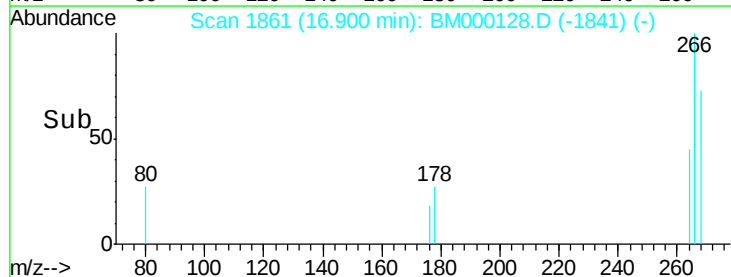
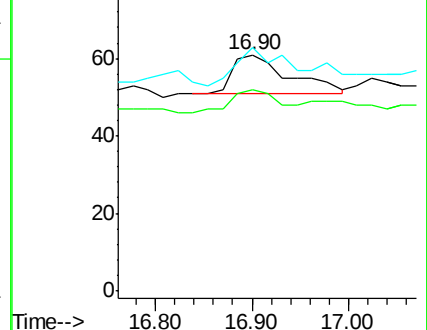
268 90.2 49.2 73.8#

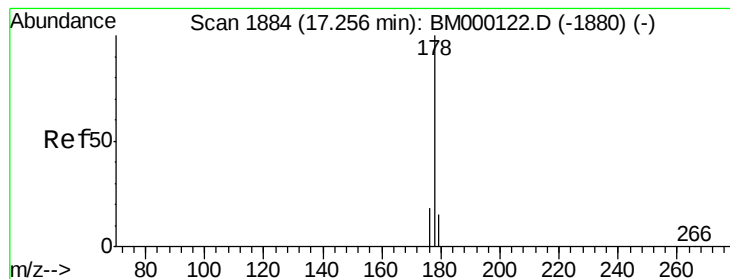


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#12

Phenanthrene

Concen: 0.04 ng/ul

RT: 17.26 min Scan# 1884

Delta R.T. 0.00 min

Lab File: BM000128.D

Acq: 07 Jan 2015 14:41

Instrument :

BNA\_M

ClientSampleId :

MDL-02-W

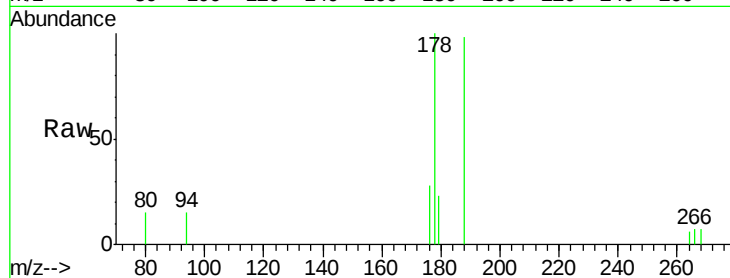
Tgt Ion:178 Resp: 1503

Ion Ratio Lower Upper

178 100

176 27.9 15.1 22.7#

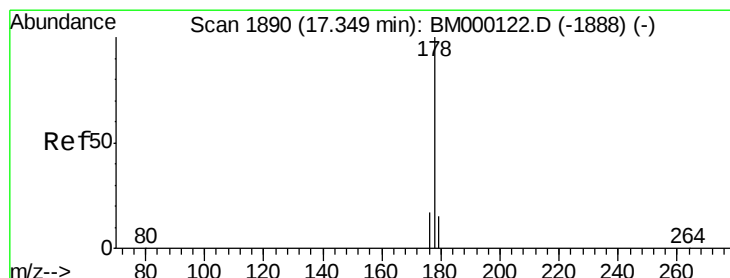
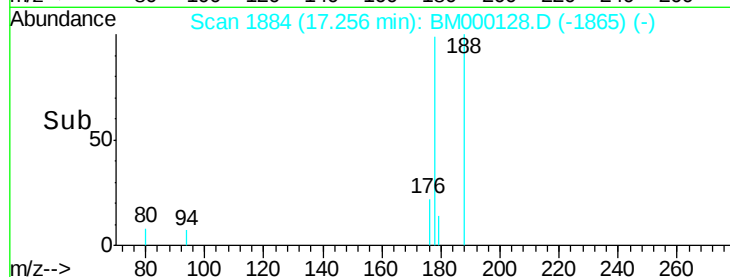
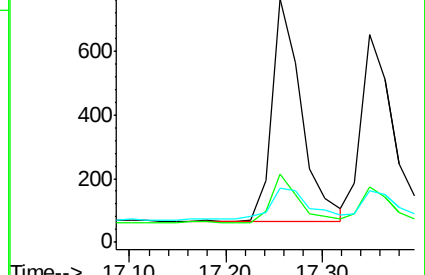
179 22.5 13.0 19.4#



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: 0.04 ng/ul

RT: 17.35 min Scan# 1890

Delta R.T. 0.00 min

Lab File: BM000128.D

Acq: 07 Jan 2015 14:41

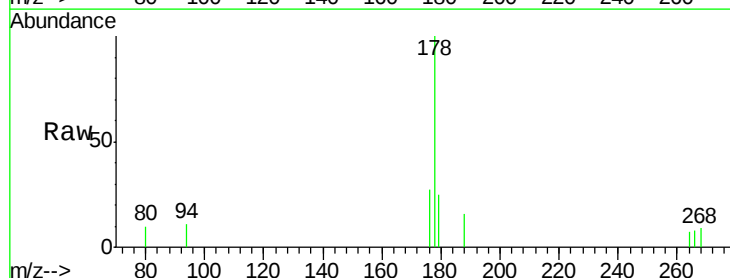
Tgt Ion:178 Resp: 1358

Ion Ratio Lower Upper

178 100

176 26.8 14.6 21.8#

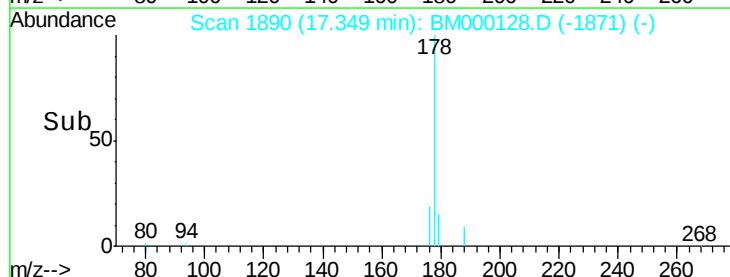
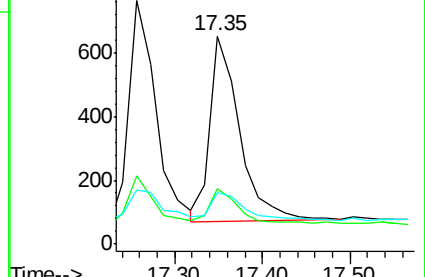
179 24.8 13.1 19.7#

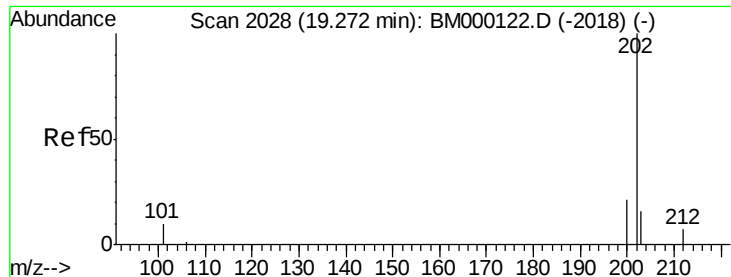


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

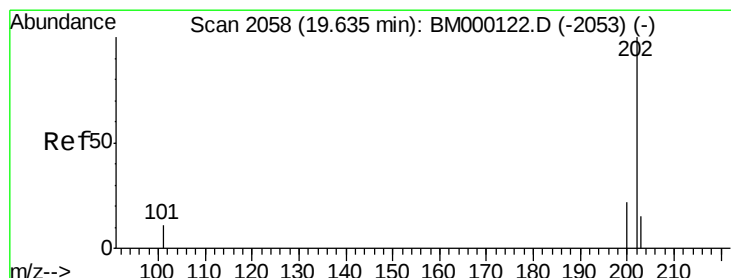
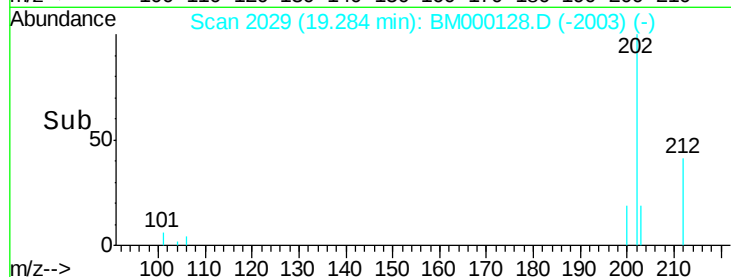
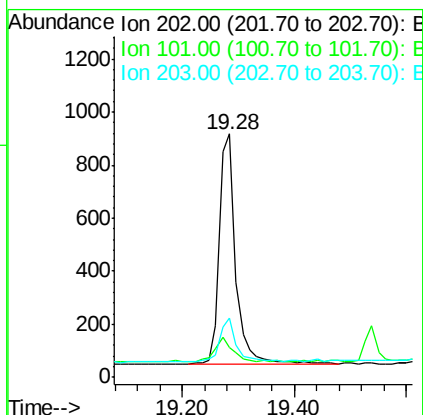
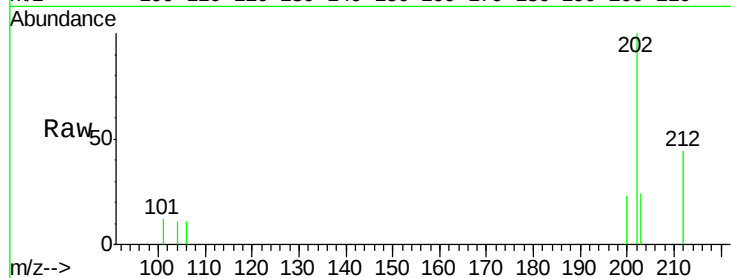




#15  
Fluoranthene  
Concen: 0.05 ng/ul  
RT: 19.28 min Scan# 2029  
Delta R.T. 0.01 min  
Lab File: BM000128.D  
Acq: 07 Jan 2015 14:41

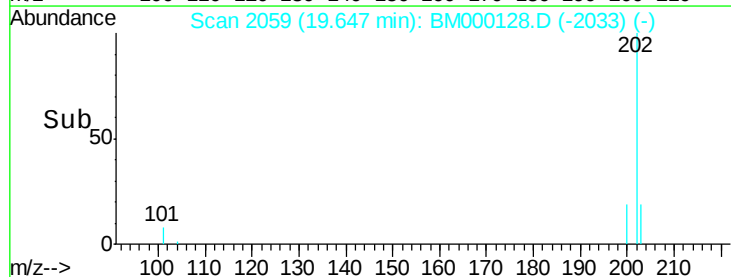
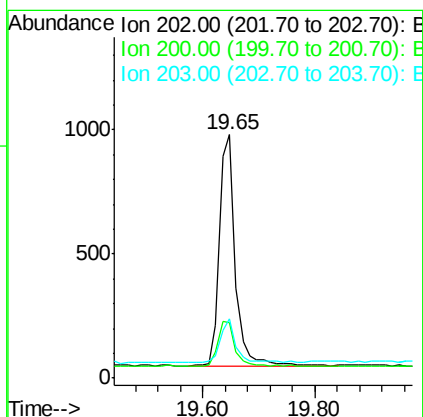
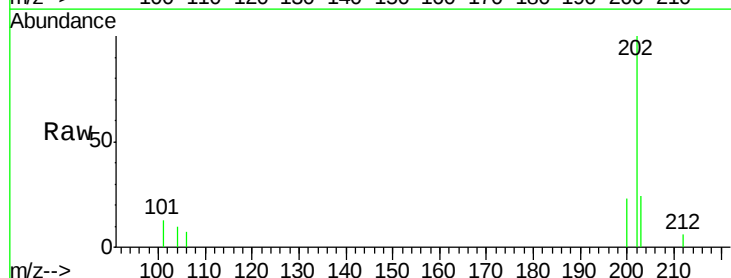
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-02-W

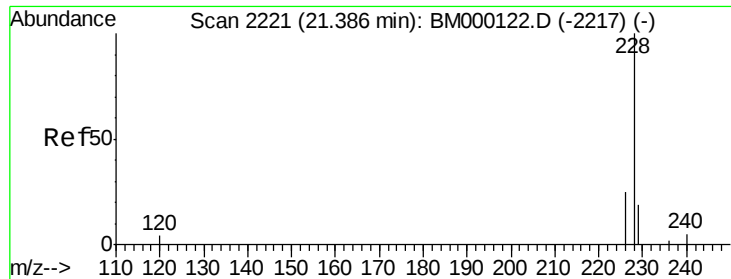
Tgt Ion:202 Resp: 1766  
Ion Ratio Lower Upper  
202 100  
101 12.3 0.0 30.5  
203 24.2 0.0 36.6



#17  
Pyrene  
Concen: 0.05 ng/ul  
RT: 19.65 min Scan# 2059  
Delta R.T. 0.01 min  
Lab File: BM000128.D  
Acq: 07 Jan 2015 14:41

Tgt Ion:202 Resp: 1822  
Ion Ratio Lower Upper  
202 100  
200 22.6 17.9 26.9  
203 24.2 12.8 19.2#





#18

Benzo(a)anthracene

Concen: 0.05 ng/ul

RT: 21.39 min Scan# 2221

Delta R.T. 0.00 min

Lab File: BM000128.D

Acq: 07 Jan 2015 14:41

Instrument :

BNA\_M

ClientSampled :

MDL-02-W

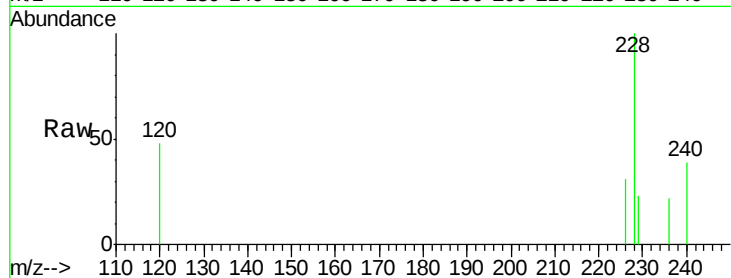
Tgt Ion:228 Resp: 1445

Ion Ratio Lower Upper

228 100

226 31.2 20.8 31.2

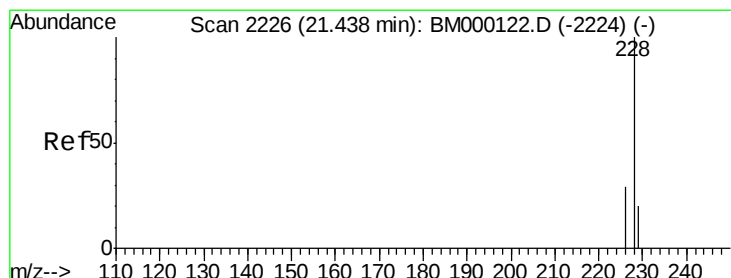
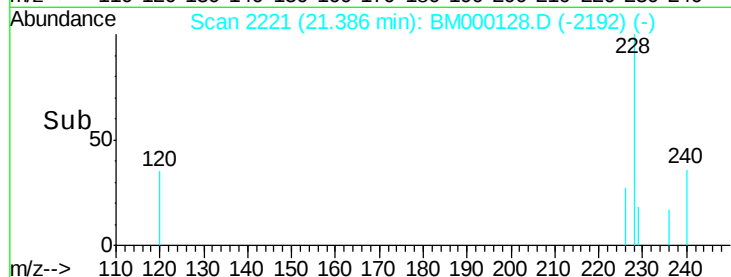
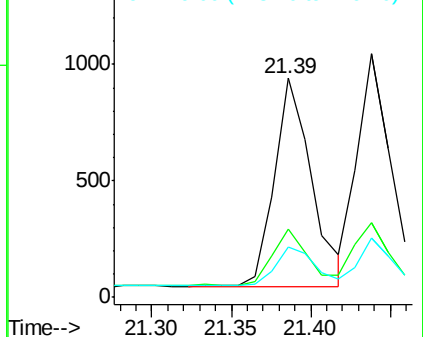
229 22.8 15.5 23.3



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: 0.04 ng/ul

RT: 21.39 min Scan# 2221

Delta R.T. -0.05 min

Lab File: BM000128.D

Acq: 07 Jan 2015 14:41

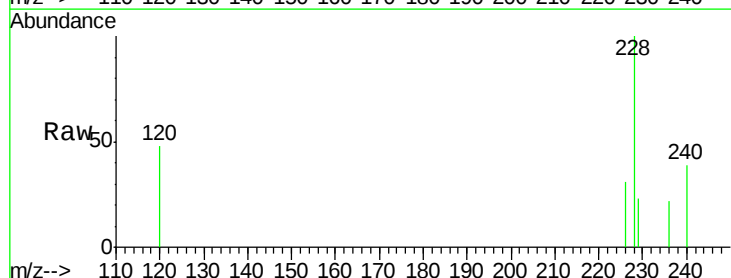
Tgt Ion:228 Resp: 1445

Ion Ratio Lower Upper

228 100

226 31.2 23.8 35.6

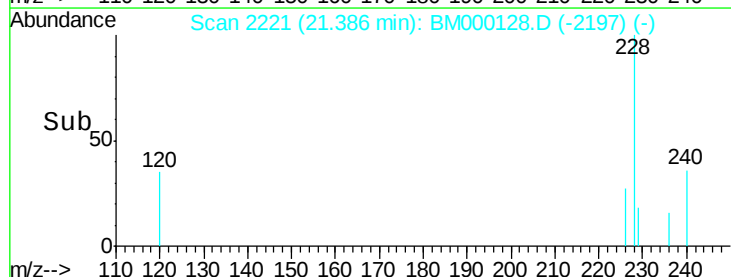
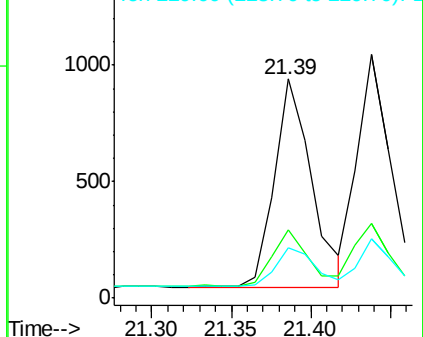
229 22.8 15.8 23.8

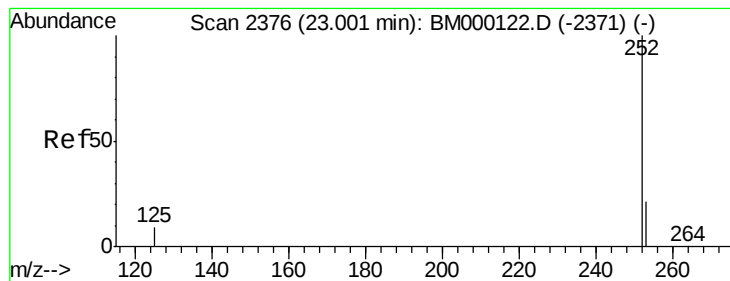


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#21

Benzo(b)fluoranthene

Concen: 0.05 ng/ul

RT: 23.00 min Scan# 2376

Delta R.T. 0.00 min

Lab File: BM000128.D

Acq: 07 Jan 2015 14:41

Instrument :

BNA\_M

ClientSampleId :

MDL-02-W

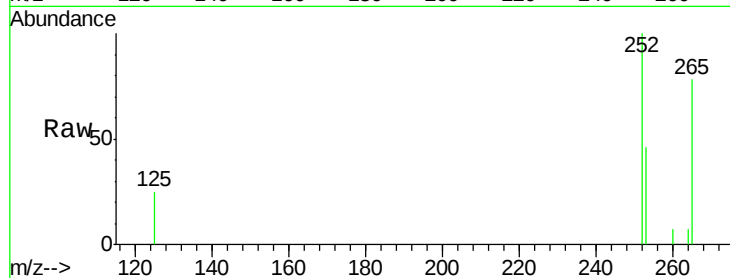
Tgt Ion:252 Resp: 1488

Ion Ratio Lower Upper

252 100

253 46.0 0.0 48.2

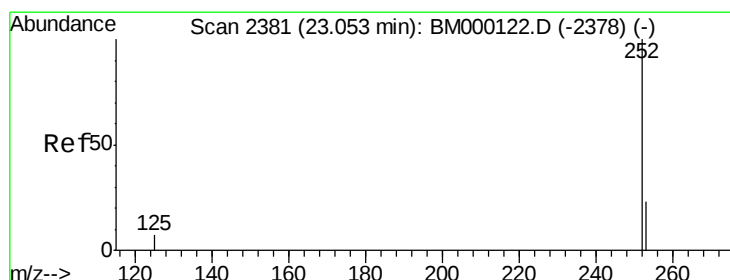
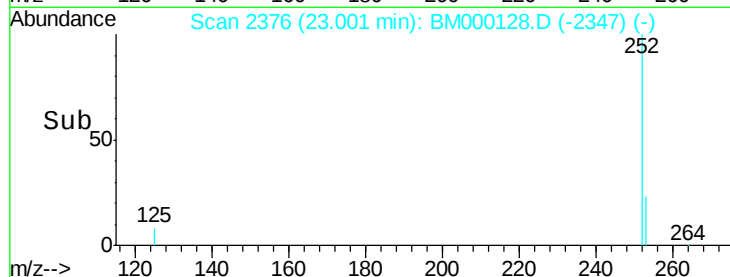
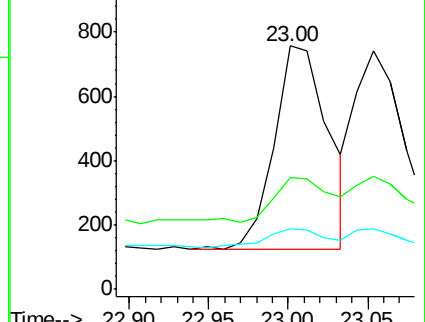
125 24.7 0.0 21.6#



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



#22

Benzo(k)fluoranthene

Concen: 0.05 ng/ul

RT: 23.05 min Scan# 2381

Delta R.T. 0.00 min

Lab File: BM000128.D

Acq: 07 Jan 2015 14:41

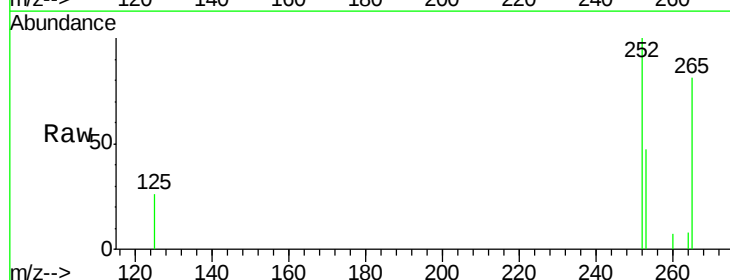
Tgt Ion:252 Resp: 1424

Ion Ratio Lower Upper

252 100

253 47.4 20.5 30.7#

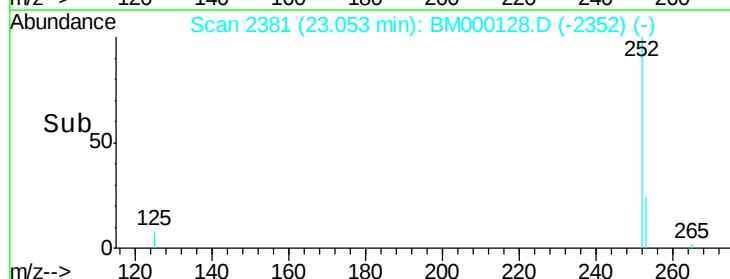
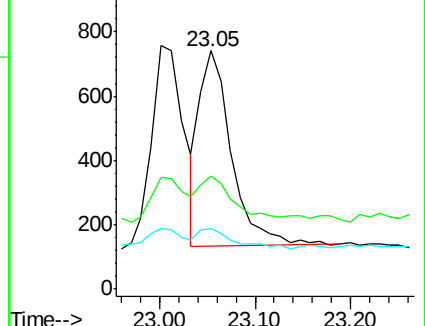
125 25.5 7.8 11.8#

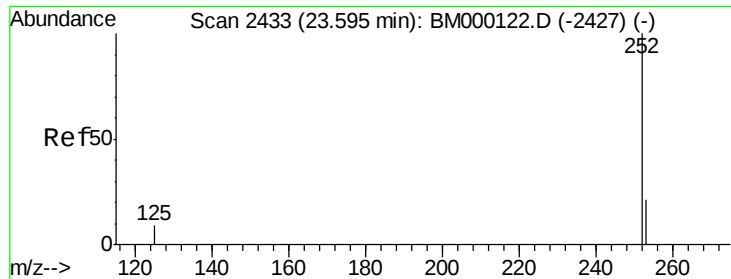


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.05 ng/ul

RT: 23.61 min Scan# 2434

Delta R.T. 0.01 min

Lab File: BM000128.D

Acq: 07 Jan 2015 14:41

Instrument :

BNA\_M

ClientSampleId :

MDL-02-W

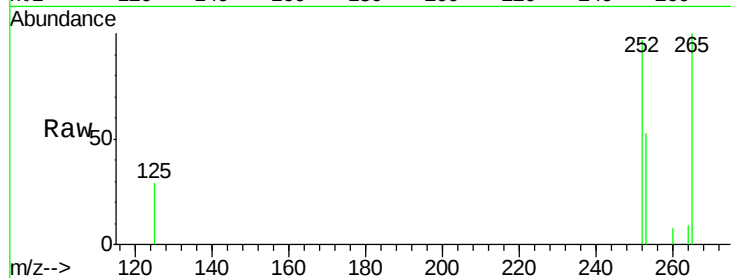
Tgt Ion: 252 Resp: 1324

Ion Ratio Lower Upper

252 100

253 54.6 19.8 29.6#

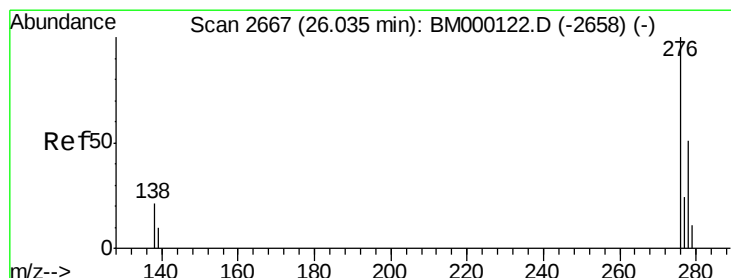
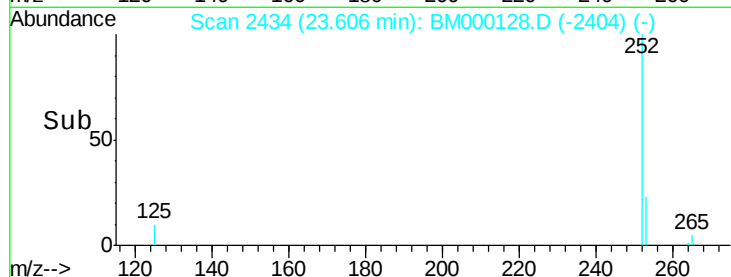
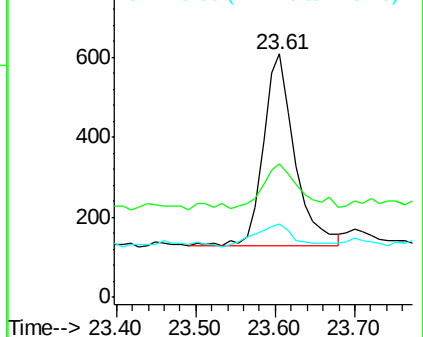
125 30.1 9.2 13.8#



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: 0.05 ng/ul

RT: 26.06 min Scan# 2669

Delta R.T. 0.02 min

Lab File: BM000128.D

Acq: 07 Jan 2015 14:41

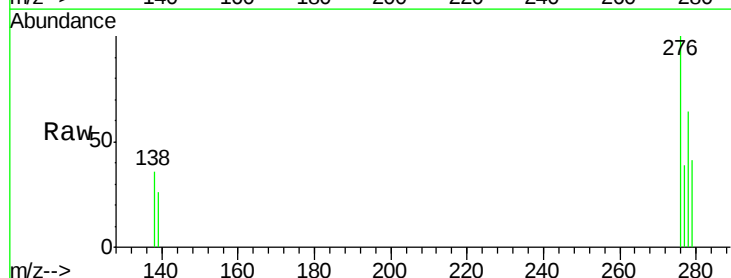
Tgt Ion: 276 Resp: 1532

Ion Ratio Lower Upper

276 100

138 23.2 17.6 26.4

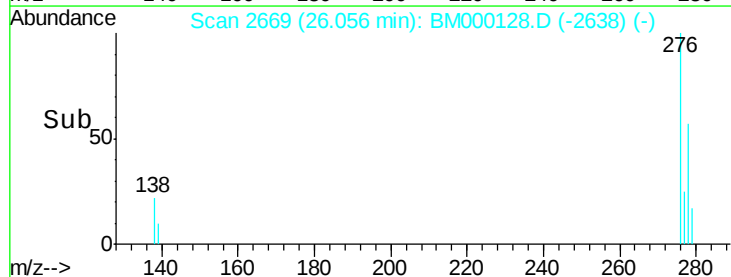
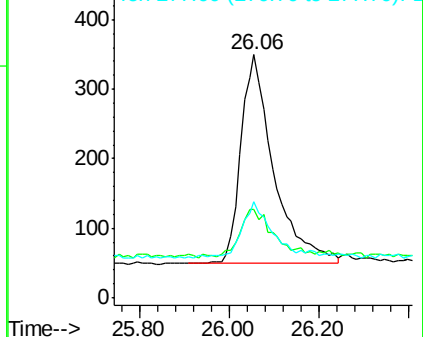
277 24.4 19.9 29.9

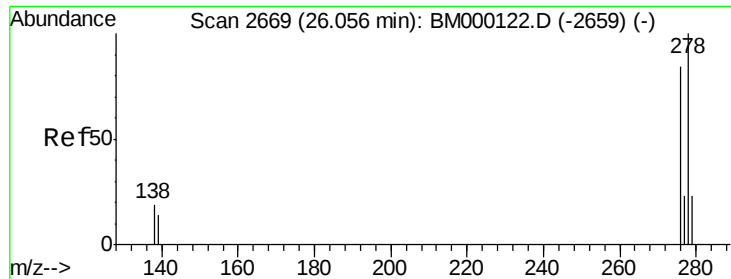


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

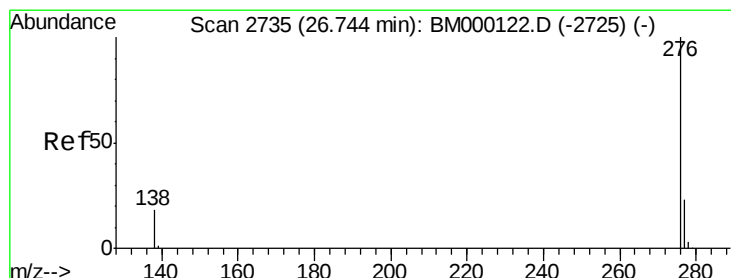
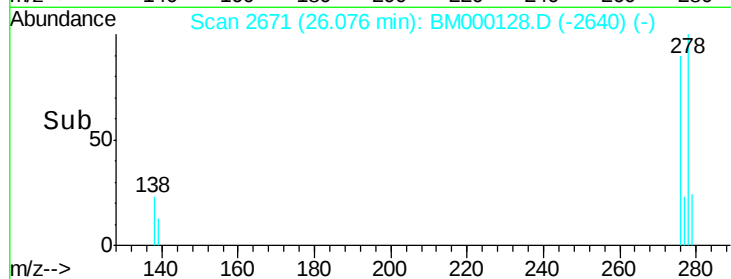
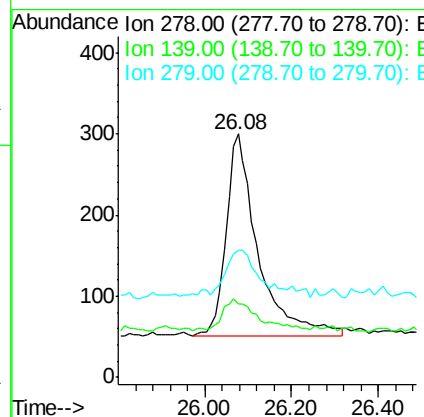
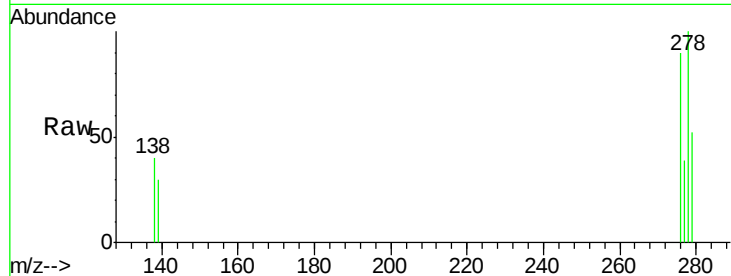




#25  
Dibenzo(a,h)anthracene  
Concen: 0.05 ng/ul  
RT: 26.08 min Scan# 2671  
Delta R.T. 0.02 min  
Lab File: BM000128.D  
Acq: 07 Jan 2015 14:41

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

Tgt Ion: 278 Resp: 1270  
Ion Ratio Lower Upper  
278 100  
139 30.0 12.6 18.8#  
279 52.0 20.6 30.8#



#26  
Benzo(g,h,i)perylene  
Concen: 0.05 ng/ul  
RT: 26.76 min Scan# 2737  
Delta R.T. 0.02 min  
Lab File: BM000128.D  
Acq: 07 Jan 2015 14:41

Tgt Ion: 276 Resp: 1387  
Ion Ratio Lower Upper  
276 100  
277 38.6 20.0 30.0#  
138 31.2 15.7 23.5#

