

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM120216\  
 Data File : BM008176.D  
 Acq On : 03 Dec 2016 02:59  
 Operator : UM/SJ  
 Sample : H5730-05DL 5X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4WG8DL

Quant Time: Dec 03 04:56:30 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  | 429      | 0.40 | ng/ul | -0.02    |
| 2) Naphthalene-d8         | 10.49 | 136  | 1336     | 0.40 | ng/ul | -0.01    |
| 6) Acenaphthene-d10       | 14.33 | 164  | 722      | 0.40 | ng/ul | -0.02    |
| 10) Phenanthrene-d10      | 17.09 | 188  | 1325     | 0.40 | ng/ul | -0.02    |
| 16) Chrysene-d12          | 21.28 | 240  | 1548     | 0.40 | ng/ul | -0.01    |
| 20) Perylene-d12          | 23.51 | 264  | 1538     | 0.40 | ng/ul | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.11 | 152  | 86       | 0.05 | ng/ul | 0.01     |
| 14) Fluoranthene-d10        | 19.12 | 212  | 1039     | 0.28 | ng/ul | -0.01    |

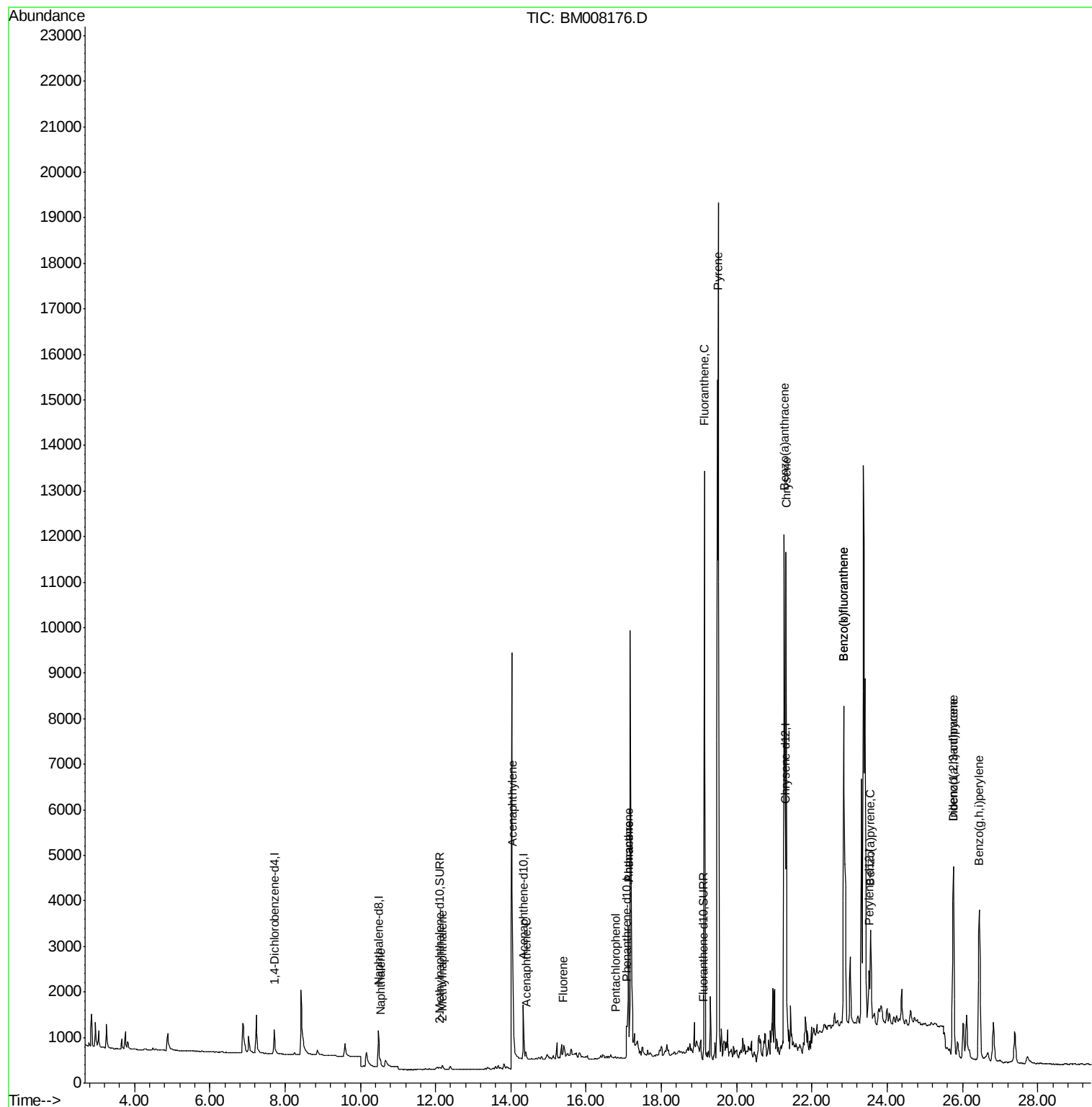
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.54 | 128  | 227      | 0.06 | ng/ul# | 37     |
| 5) 2-Methylnaphthalene     | 12.18 | 142  | 104      | 0.04 | ng/ul  | 95     |
| 7) Acenaphthylene          | 14.04 | 152  | 2891     | 0.89 | ng/ul  | 95     |
| 8) Acenaphthene            | 14.40 | 153  | 149      | 0.06 | ng/ul# | 82     |
| 9) Fluorene                | 15.39 | 166  | 310      | 0.11 | ng/ul# | 80     |
| 11) Pentachlorophenol      | 16.78 | 266  | 11       | 0.02 | ng/ul# | 2      |
| 12) Phenanthrene           | 17.12 | 178  | 3557     | 0.86 | ng/ul  | 95     |
| 13) Anthracene             | 17.12 | 178  | 3539     | 0.91 | ng/ul  | 97     |
| 15) Fluoranthene           | 19.14 | 202  | 13151    | 2.47 | ng/ul  | 94     |
| 17) Pyrene                 | 19.51 | 202  | 18274    | 3.40 | ng/ul  | 97     |
| 18) Benzo(a)anthracene     | 21.26 | 228  | 10923    | 2.30 | ng/ul  | 94     |
| 19) Chrysene               | 21.31 | 228  | 11103    | 1.88 | ng/ul  | 98     |
| 21) Benzo(b)fluoranthene   | 22.85 | 252  | 16416    | 2.67 | ng/ul  | 86     |
| 22) Benzo(k)fluoranthene   | 22.85 | 252  | 16416    | 2.59 | ng/ul# | 88     |
| 23) Benzo(a)pyrene         | 23.56 | 252  | 2540     | 0.44 | ng/ul  | 96     |
| 24) Indeno(1,2,3-cd)pyrene | 25.76 | 276  | 7112     | 1.00 | ng/ul# | 90     |
| 25) Dibenzo(a,h)anthracene | 25.76 | 278  | 1713     | 0.30 | ng/ul# | 84     |
| 26) Benzo(g,h,i)perylene   | 26.44 | 276  | 7303     | 1.16 | ng/ul# | 91     |

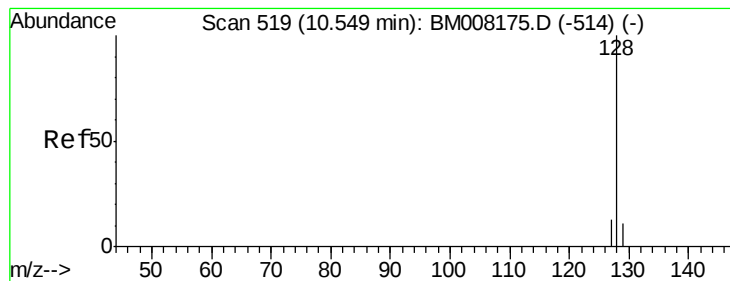
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 0.06 ng/ul

RT: 10.54 min Scan# 518

Delta R.T. -0.01 min

Lab File: BM008176.D

Acq: 03 Dec 2016 02:59

Instrument :

BNA\_M

ClientSampleId :

A4WG8DL

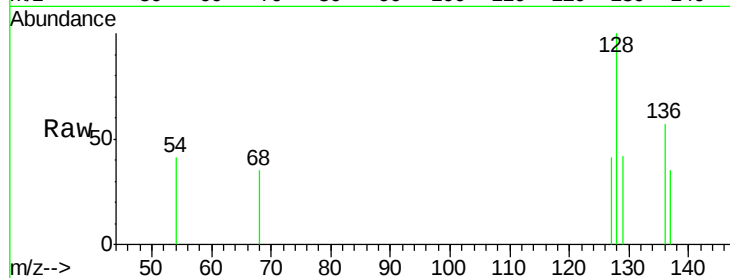
Tgt Ion:128 Resp: 227

Ion Ratio Lower Upper

128 100

129 41.6 11.3 16.9#

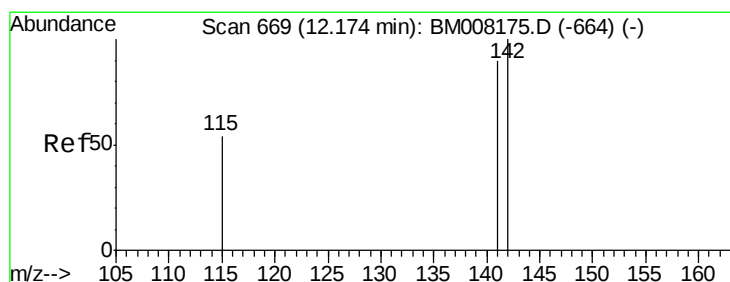
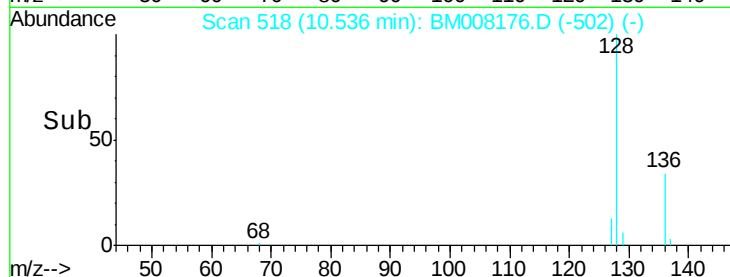
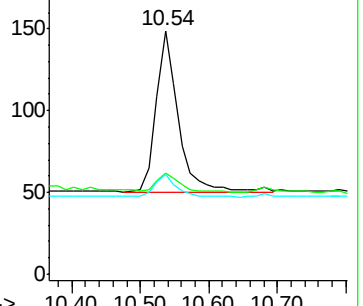
127 40.9 12.8 19.2#



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



#5

2-Methylnaphthalene

Concen: 0.04 ng/ul

RT: 12.18 min Scan# 670

Delta R.T. 0.01 min

Lab File: BM008176.D

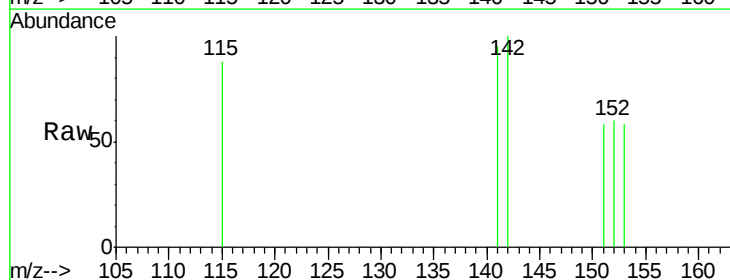
Acq: 03 Dec 2016 02:59

Tgt Ion:142 Resp: 104

Ion Ratio Lower Upper

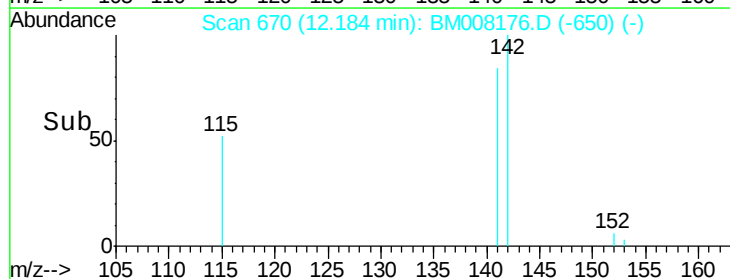
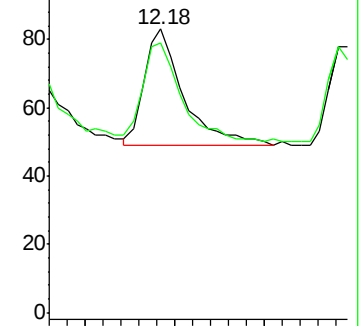
142 100

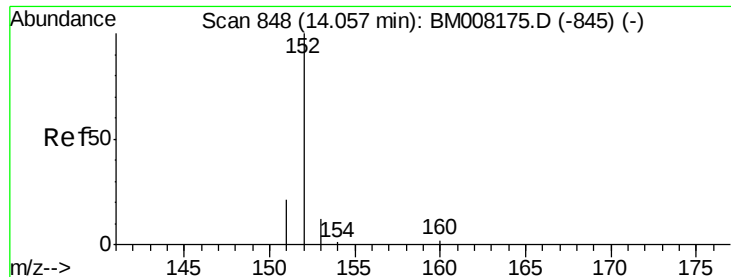
141 85.6 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.89 ng/ul

RT: 14.04 min Scan# 847

Delta R.T. -0.02 min

Lab File: BM008176.D

Acq: 03 Dec 2016 02:59

Instrument :

BNA\_M

ClientSampleId :

A4WG8DL

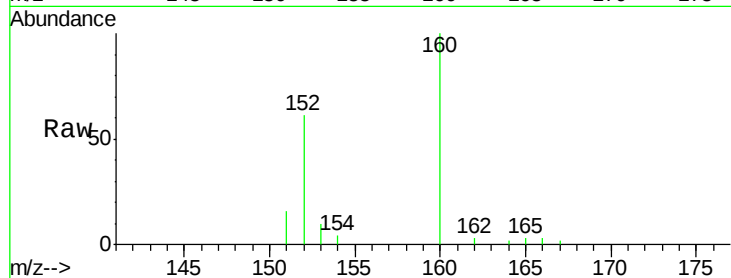
Tgt Ion:152 Resp: 2891

Ion Ratio Lower Upper

152 100

151 25.4 17.1 25.7

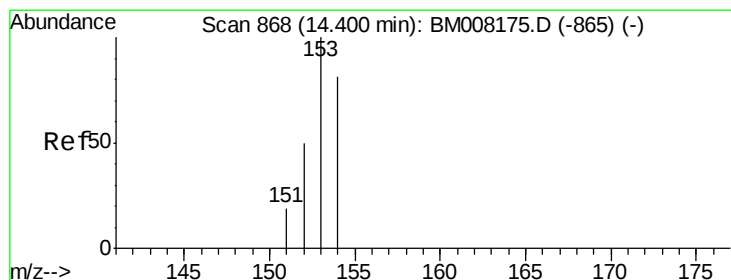
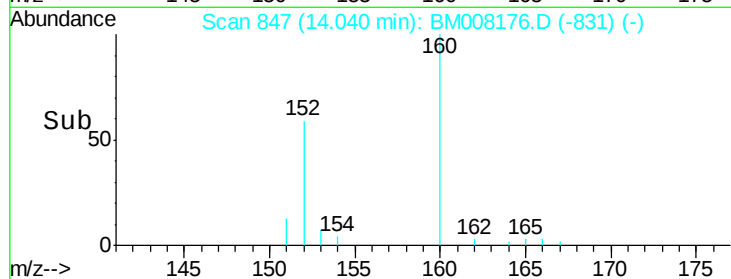
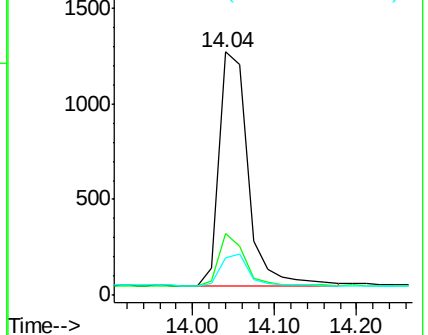
153 15.6 12.8 19.2



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: 0.06 ng/ul

RT: 14.40 min Scan# 868

Delta R.T. -0.00 min

Lab File: BM008176.D

Acq: 03 Dec 2016 02:59

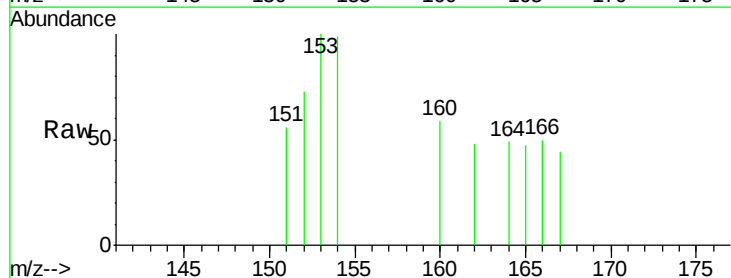
Tgt Ion:153 Resp: 149

Ion Ratio Lower Upper

153 100

152 73.0 40.3 60.5#

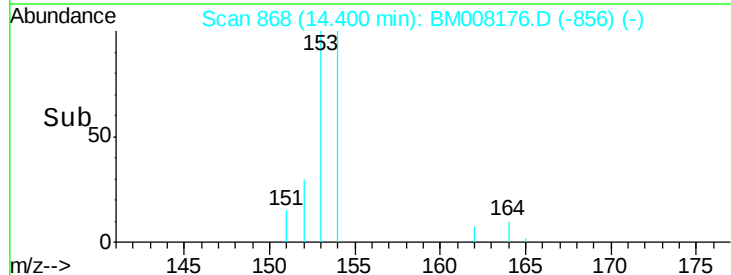
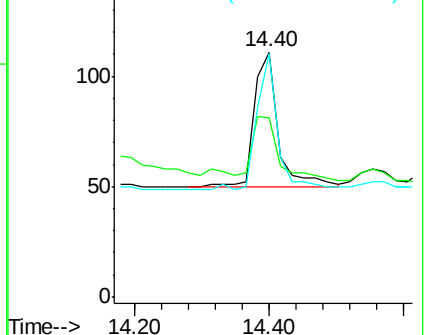
154 99.1 71.4 107.2

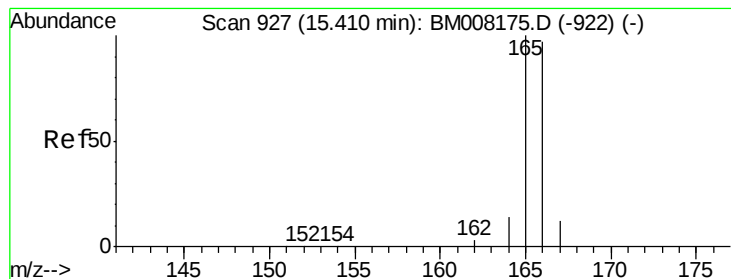


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 0.11 ng/ul

RT: 15.39 min Scan# 926

Delta R.T. -0.02 min

Lab File: BM008176.D

Acq: 03 Dec 2016 02:59

Instrument :

BNA\_M

ClientSampleId :

A4WG8DL

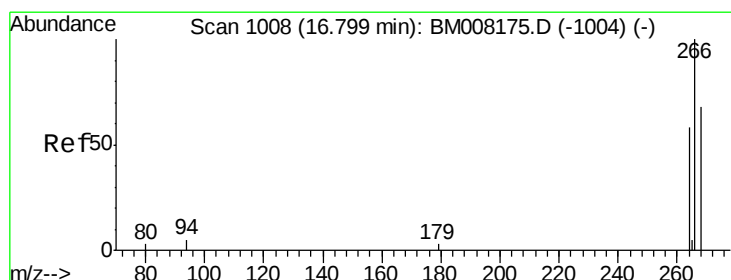
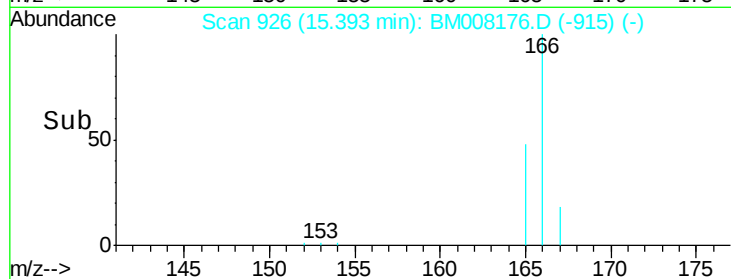
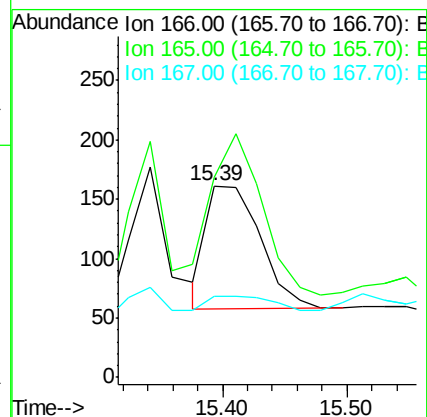
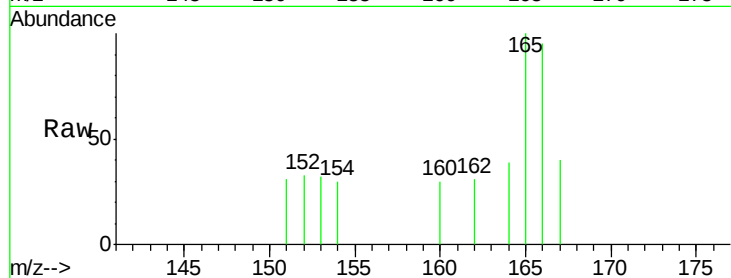
Tgt Ion:166 Resp: 310

Ion Ratio Lower Upper

166 100

165 105.0 73.4 110.2

167 42.2 14.6 22.0#



#11

Pentachlorophenol

Concen: 0.02 ng/ul

RT: 16.78 min Scan# 1007

Delta R.T. -0.02 min

Lab File: BM008176.D

Acq: 03 Dec 2016 02:59

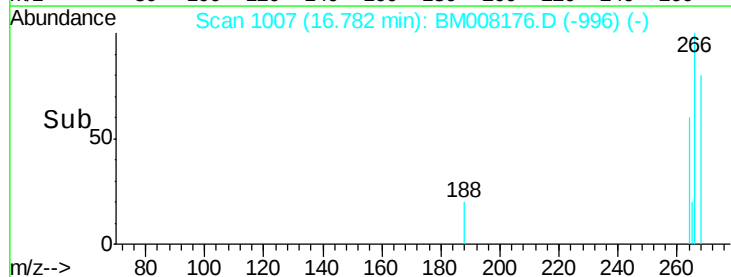
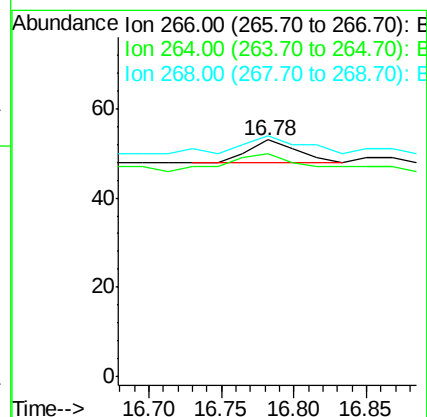
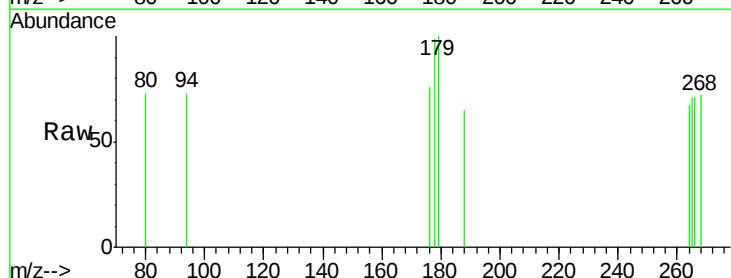
Tgt Ion:266 Resp: 11

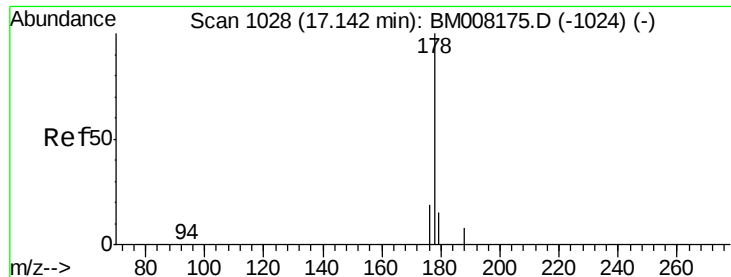
Ion Ratio Lower Upper

266 100

264 154.5 47.9 71.9#

268 118.2 49.8 74.8#





#12

Phenanthrene

Concen: 0.86 ng/ul

RT: 17.12 min Scan# 1027

Delta R.T. -0.02 min

Lab File: BM008176.D

Acq: 03 Dec 2016 02:59

Instrument :

BNA\_M

ClientSampleId :

A4WG8DL

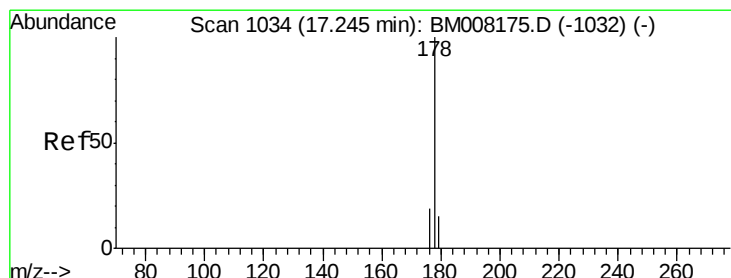
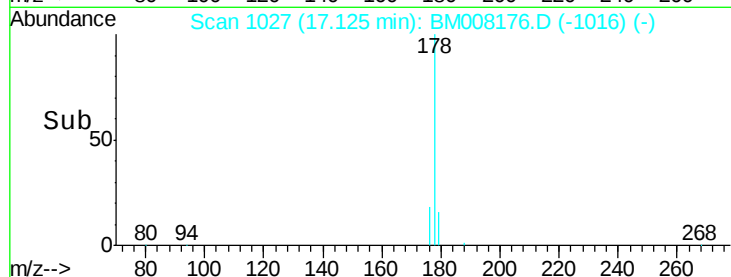
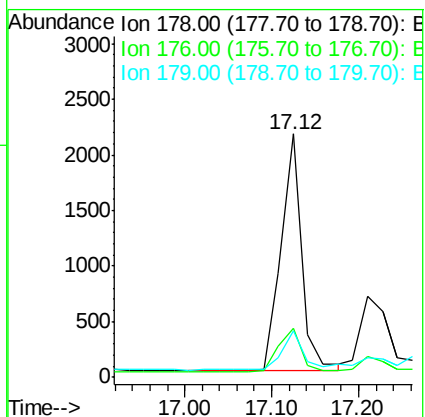
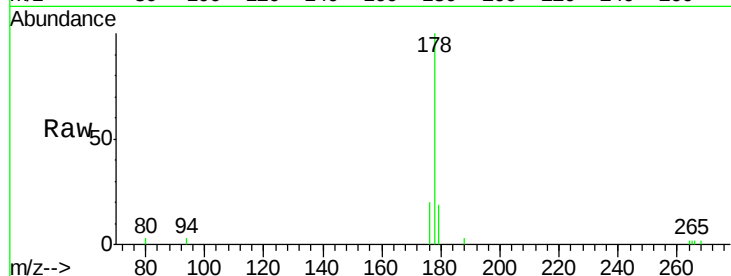
Tgt Ion:178 Resp: 3557

Ion Ratio Lower Upper

178 100

176 20.3 18.4 27.6

179 19.0 13.6 20.4



#13

Anthracene

Concen: 0.91 ng/ul

RT: 17.12 min Scan# 1027

Delta R.T. -0.12 min

Lab File: BM008176.D

Acq: 03 Dec 2016 02:59

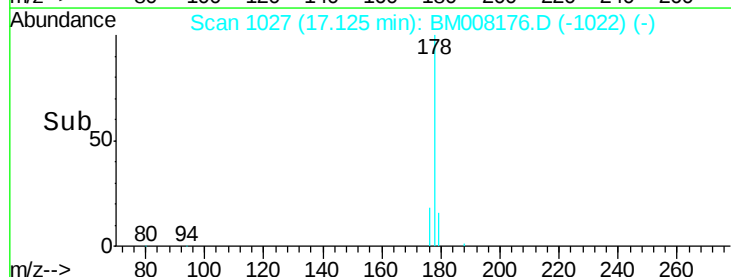
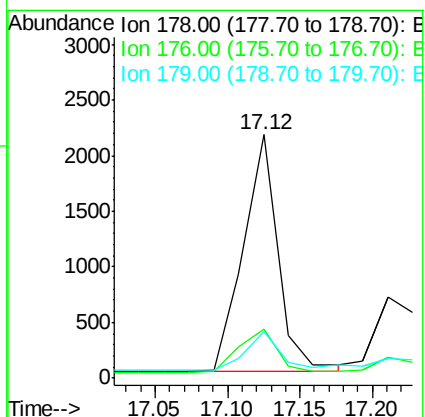
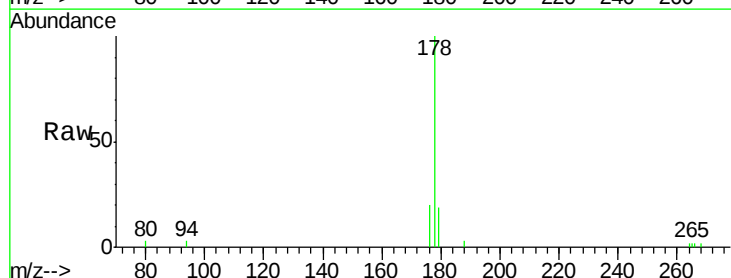
Tgt Ion:178 Resp: 3539

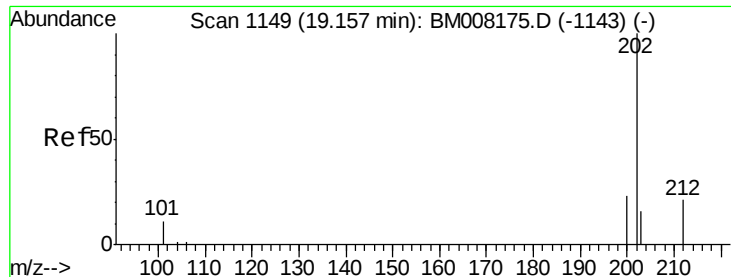
Ion Ratio Lower Upper

178 100

176 20.3 18.1 27.1

179 19.0 14.7 22.1





#15

Fluoranthene

Concen: 2.47 ng/ul

RT: 19.14 min Scan# 1148

Delta R.T. -0.01 min

Lab File: BM008176.D

Acq: 03 Dec 2016 02:59

Instrument :

BNA\_M

ClientSampleId :

A4WG8DL

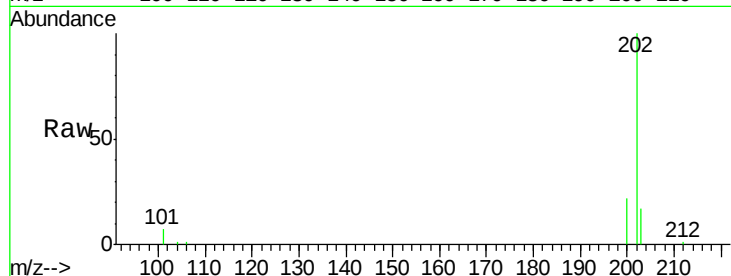
Tgt Ion:202 Resp: 13151

Ion Ratio Lower Upper

202 100

101 7.3 0.0 30.3

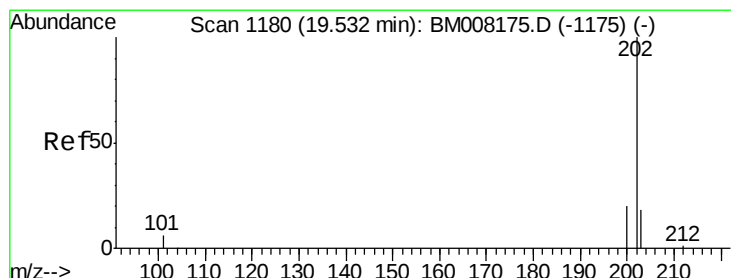
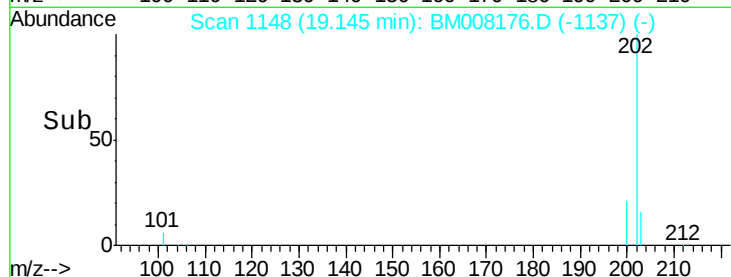
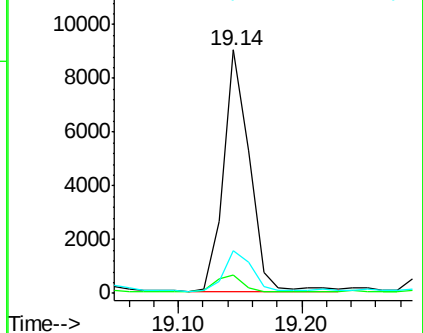
203 17.5 0.0 39.5



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



#17

Pyrene

Concen: 3.40 ng/ul

RT: 19.51 min Scan# 1178

Delta R.T. -0.02 min

Lab File: BM008176.D

Acq: 03 Dec 2016 02:59

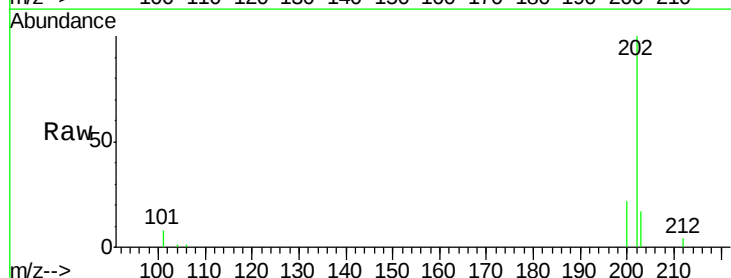
Tgt Ion:202 Resp: 18274

Ion Ratio Lower Upper

202 100

200 22.3 18.2 27.4

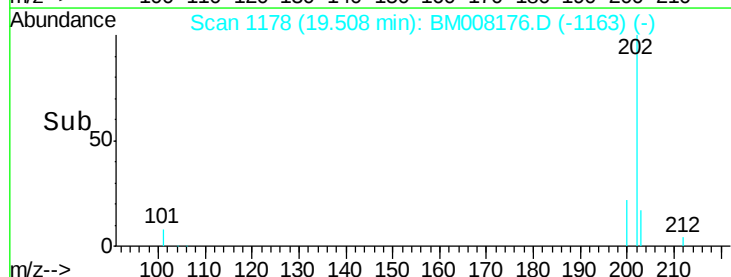
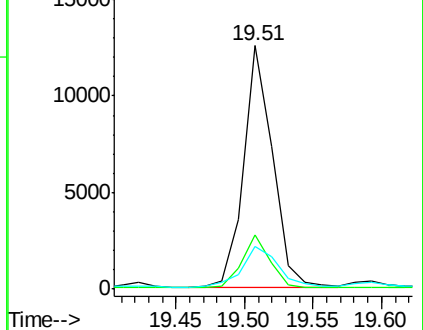
203 17.4 15.6 23.4

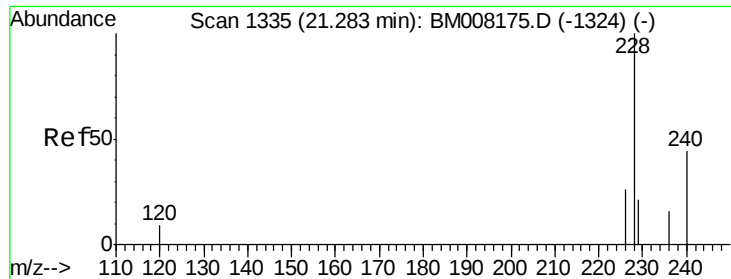


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Benzo(a)anthracene

Concen: 2.30 ng/ul

RT: 21.26 min Scan# 1333

Delta R.T. -0.02 min

Lab File: BM008176.D

Acq: 03 Dec 2016 02:59

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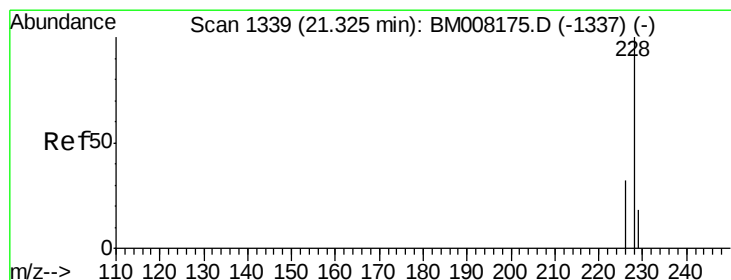
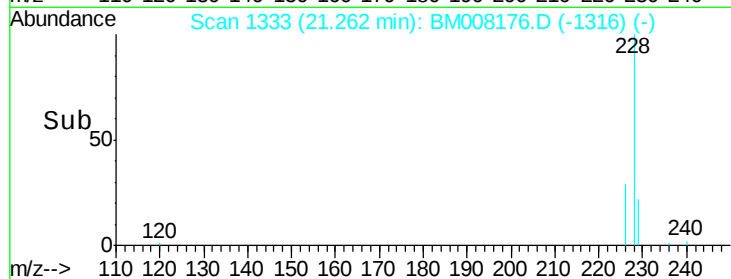
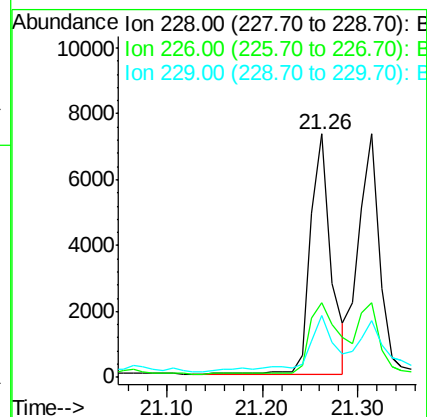
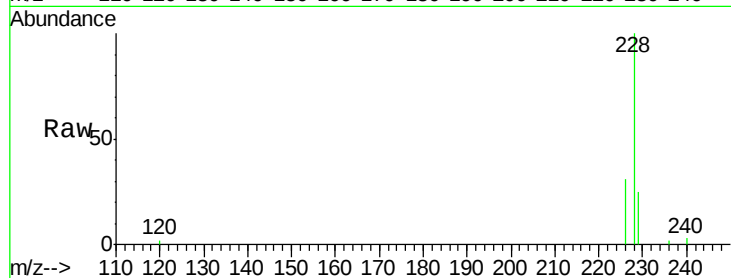
Tgt Ion:228 Resp: 10923

Ion Ratio Lower Upper

228 100

226 30.9 22.8 34.2

229 25.3 17.0 25.6



#19

Chrysene

Concen: 1.88 ng/ul

RT: 21.31 min Scan# 1338

Delta R.T. -0.01 min

Lab File: BM008176.D

Acq: 03 Dec 2016 02:59

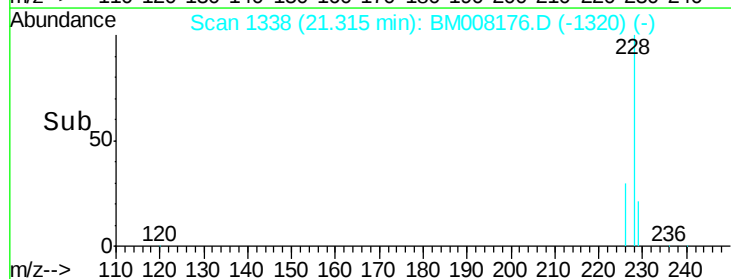
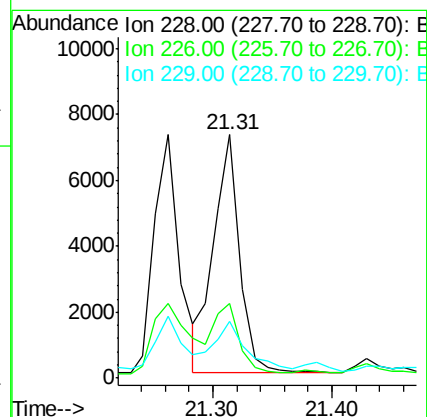
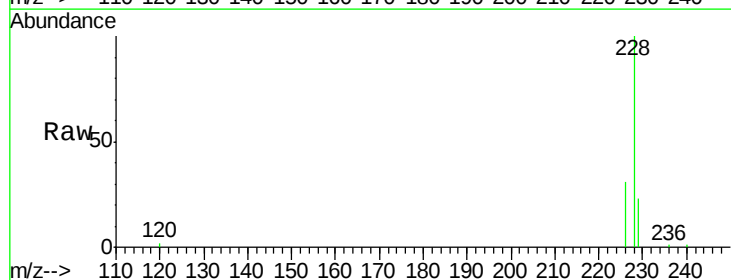
Tgt Ion:228 Resp: 11103

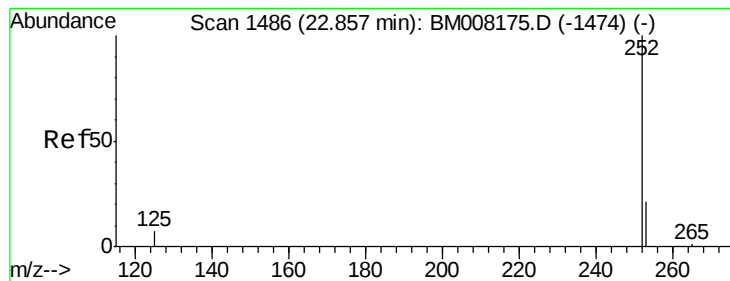
Ion Ratio Lower Upper

228 100

226 30.6 23.4 35.0

229 23.3 17.7 26.5





#21

Benzo(b)fluoranthene

Concen: 2.67 ng/ul

RT: 22.85 min Scan# 1485

Delta R.T. -0.01 min

Lab File: BM008176.D

Acq: 03 Dec 2016 02:59

Instrument :

BNA\_M

ClientSampleId :

A4WG8DL

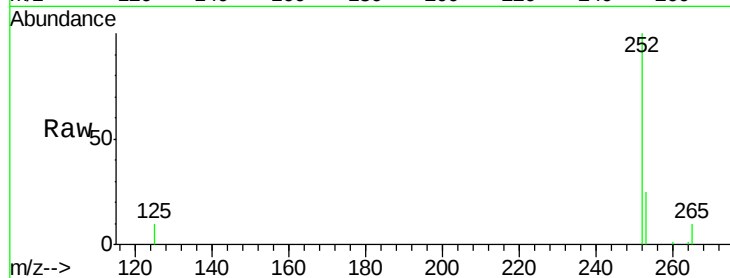
Tgt Ion:252 Resp: 16416

Ion Ratio Lower Upper

252 100

253 25.4 0.0 64.2

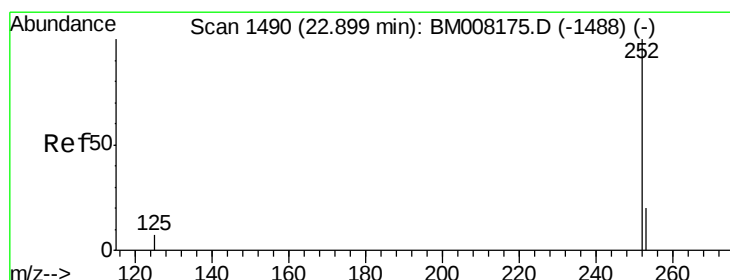
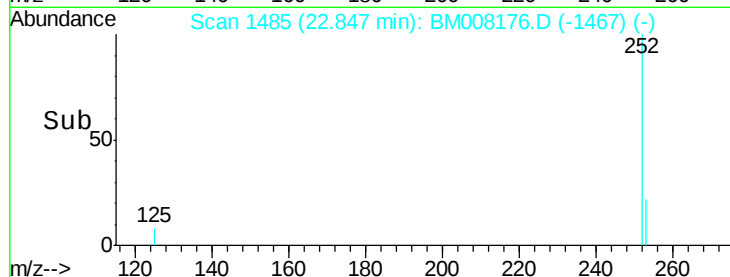
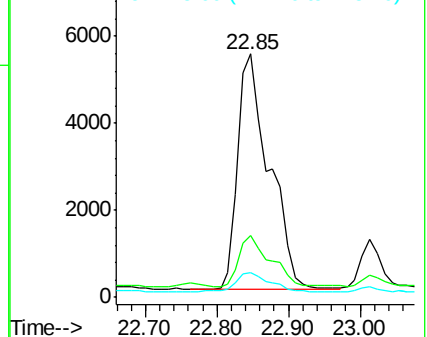
125 10.2 0.0 35.0



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: 2.59 ng/ul

RT: 22.85 min Scan# 1485

Delta R.T. -0.05 min

Lab File: BM008176.D

Acq: 03 Dec 2016 02:59

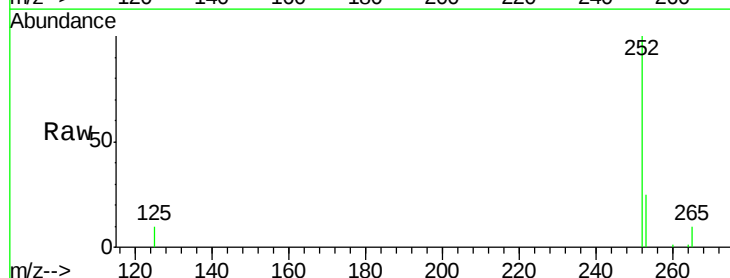
Tgt Ion:252 Resp: 16416

Ion Ratio Lower Upper

252 100

253 25.4 24.5 36.7

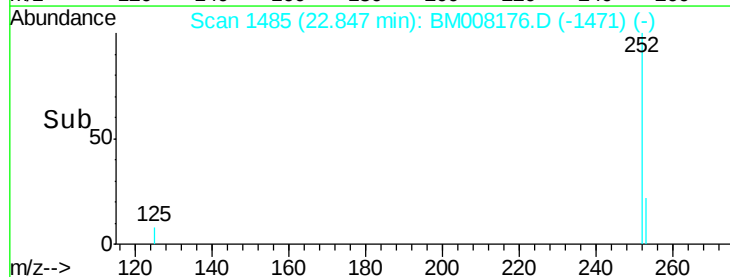
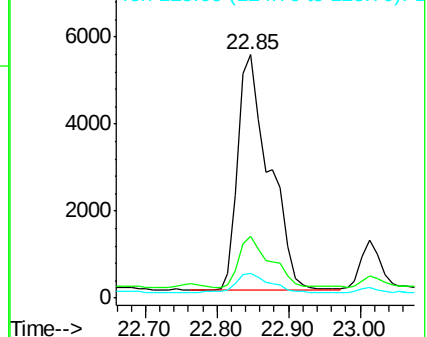
125 10.2 13.7 20.5#

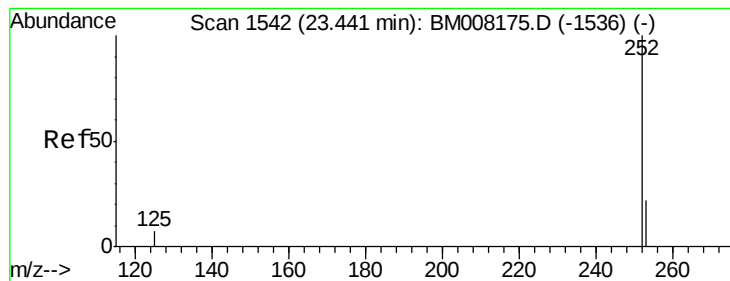


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.44 ng/ul

RT: 23.56 min Scan# 1553

Delta R.T. 0.11 min

Lab File: BM008176.D

Acq: 03 Dec 2016 02:59

Instrument :

BNA\_M

ClientSampleId :

A4WG8DL

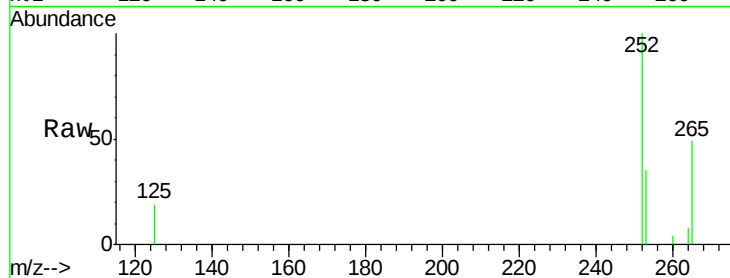
Tgt Ion:252 Resp: 2540

Ion Ratio Lower Upper

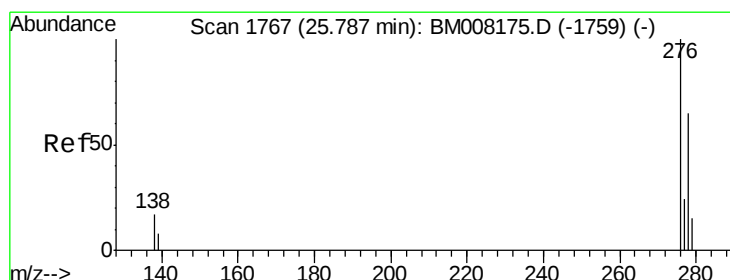
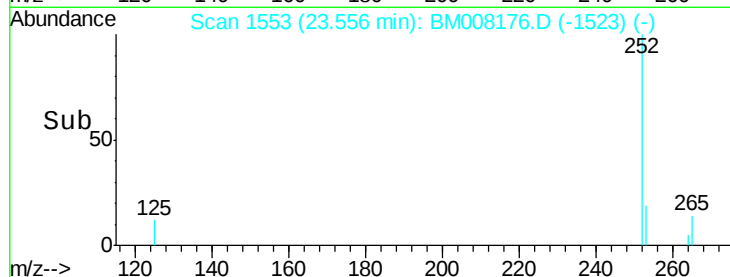
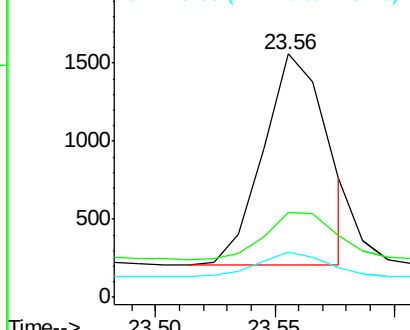
252 100

253 35.1 28.5 42.7

125 18.8 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: 1.00 ng/ul

RT: 25.76 min Scan# 1764

Delta R.T. -0.03 min

Lab File: BM008176.D

Acq: 03 Dec 2016 02:59

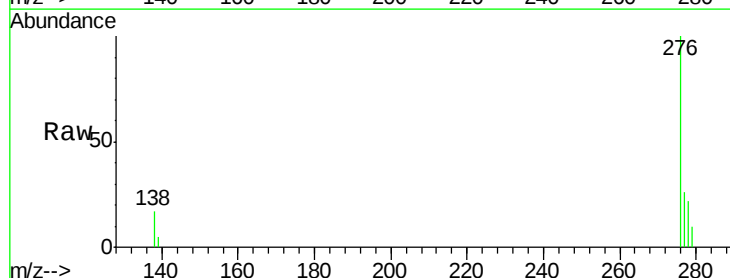
Tgt Ion:276 Resp: 7112

Ion Ratio Lower Upper

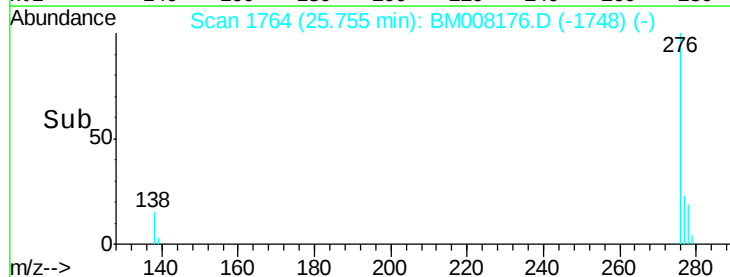
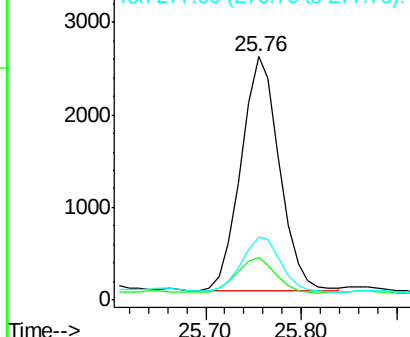
276 100

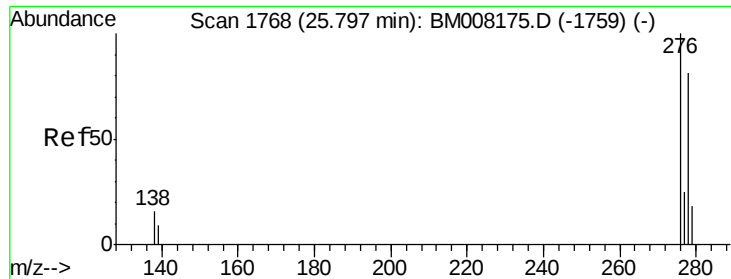
138 15.0 19.1 28.7#

277 23.2 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: 0.30 ng/ul

RT: 25.76 min Scan# 1764

Delta R.T. -0.04 min

Lab File: BM008176.D

Acq: 03 Dec 2016 02:59

Instrument :

BNA\_M

ClientSampleId :

A4WG8DL

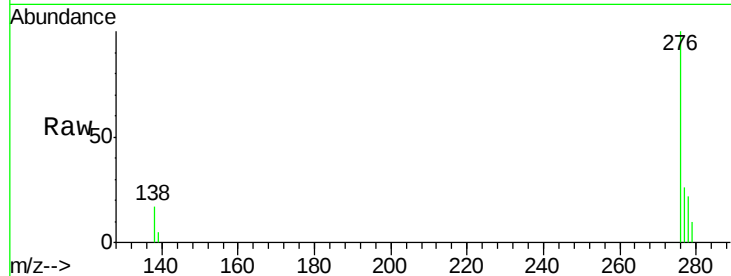
Tgt Ion:278 Resp: 1713

Ion Ratio Lower Upper

278 100

139 24.2 17.4 26.0

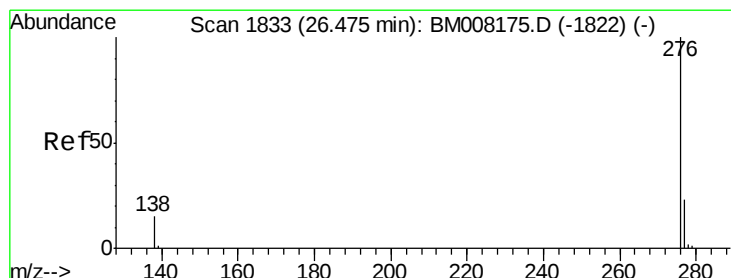
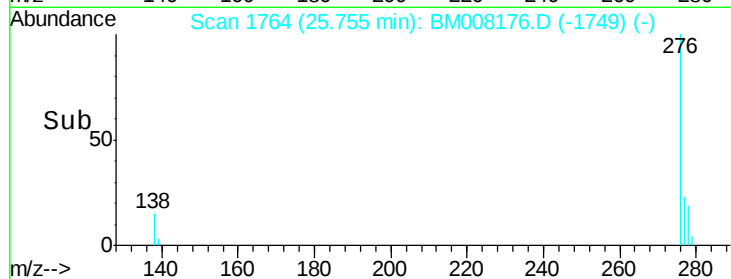
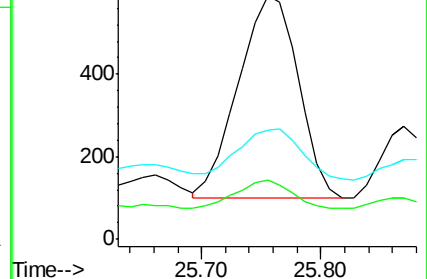
279 44.9 25.9 38.9#



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



#26

Benzo(g,h,i)perylene

Concen: 1.16 ng/ul

RT: 26.44 min Scan# 1830

Delta R.T. -0.03 min

Lab File: BM008176.D

Acq: 03 Dec 2016 02:59

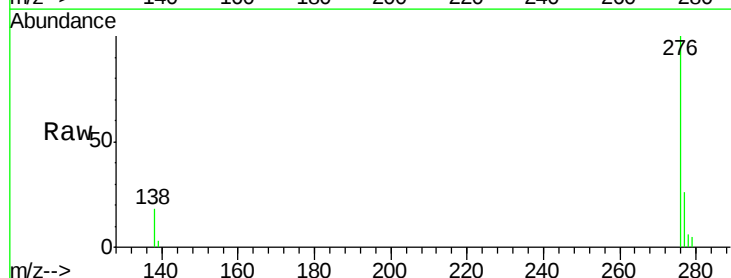
Tgt Ion:276 Resp: 7303

Ion Ratio Lower Upper

276 100

277 25.8 21.8 32.8

138 18.2 20.5 30.7#



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

