

Data Path : Z:\HPCHEM1\BNA M\DATA\BM121016\  
 Data File : BM008256.D  
 Acq On : 11 Dec 2016 05:28  
 Operator : UM/SJ  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Dec 12 06:47:56 2016  
 Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM112116.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 12 03:51:49 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.71  | 152  | 565      | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.48 | 136  | 2061     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.33 | 164  | 1191     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.09 | 188  | 2013     | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.28 | 240  | 1655     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.51 | 264  | 1601     | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 12.07 | 152  | 1188     | 0.41 | ng/ul | -0.01    |
| 14) Fluoranthene-d10        | 19.12 | 212  | 2349     | 0.41 | ng/ul | 0.00     |

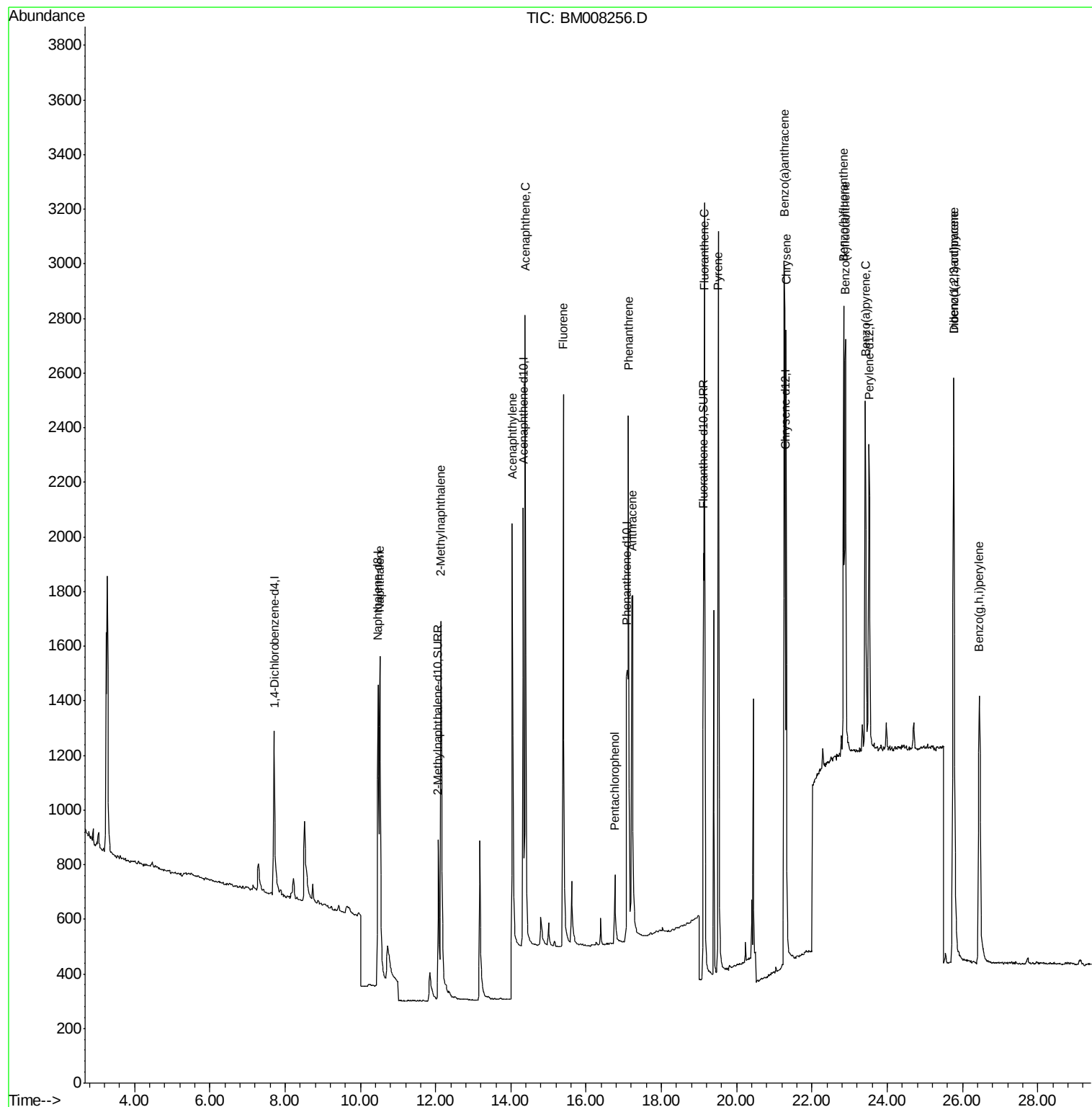
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Ovalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.52 | 128  | 2229     | 0.39 | ng/ul  | 97     |
| 5) 2-Methylnaphthalene     | 12.14 | 142  | 1501     | 0.40 | ng/ul  | 98     |
| 7) Acenaphthylene          | 14.04 | 152  | 2121     | 0.39 | ng/ul  | 97     |
| 8) Acenaphthene            | 14.38 | 153  | 1635     | 0.40 | ng/ul  | 93     |
| 9) Fluorene                | 15.39 | 166  | 1771     | 0.38 | ng/ul  | 94     |
| 11) Pentachlorophenol      | 16.76 | 266  | 269      | 0.38 | ng/ul  | 93     |
| 12) Phenanthrene           | 17.12 | 178  | 2551     | 0.41 | ng/ul  | 96     |
| 13) Anthracene             | 17.23 | 178  | 2519     | 0.43 | ng/ul  | 95     |
| 15) Fluoranthene           | 19.14 | 202  | 3055     | 0.38 | ng/ul  | 95     |
| 17) Pyrene                 | 19.51 | 202  | 3001     | 0.52 | ng/ul  | 97     |
| 18) Benzo(a)anthracene     | 21.26 | 228  | 2434     | 0.48 | ng/ul  | 97     |
| 19) Chrysene               | 21.31 | 228  | 2284     | 0.36 | ng/ul  | 97     |
| 21) Benzo(b)fluoranthene   | 22.84 | 252  | 2276     | 0.36 | ng/ul  | 98     |
| 22) Benzo(k)fluoranthene   | 22.89 | 252  | 2535     | 0.38 | ng/ul  | 93     |
| 23) Benzo(a)pyrene         | 23.42 | 252  | 2354     | 0.39 | ng/ul  | 94     |
| 24) Indeno(1,2,3-cd)pyrene | 25.77 | 276  | 2855     | 0.39 | ng/ul# | 94     |
| 25) Dibenzo(a,h)anthracene | 25.77 | 278  | 2254     | 0.38 | ng/ul  | 96     |
| 26) Benzo(g,h,i)perylene   | 26.44 | 276  | 2424     | 0.37 | ng/ul  | 95     |

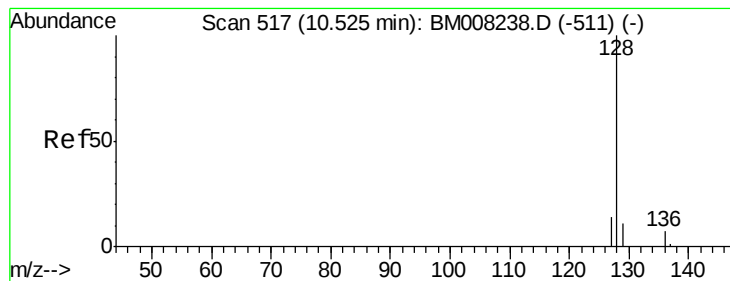
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 12 06:47:56 2016  
Quant Method : Z:\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM112116.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 12 03:51:49 2016  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.39 ng/ul

RT: 10.52 min Scan# 517

Delta R.T. -0.00 min

Lab File: BM008256.D

Acq: 11 Dec 2016 05:28

Instrument :

BNA\_M

ClientSampleId :

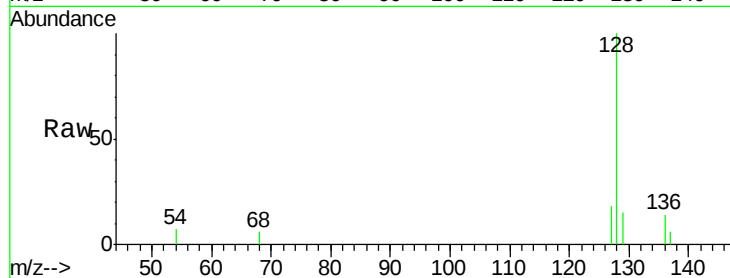
Tot Ion:128 Resp: 2229

Ion Ratio Lower Upper

128 100

129 15.4 11.3 16.9

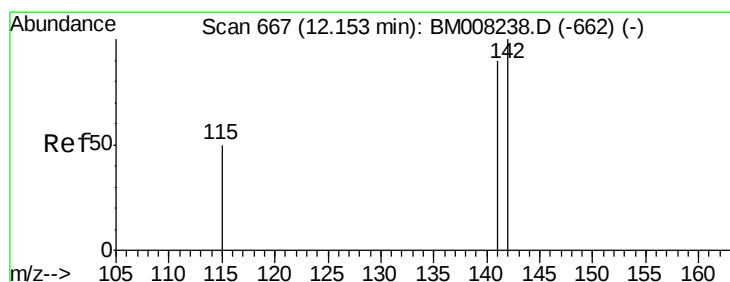
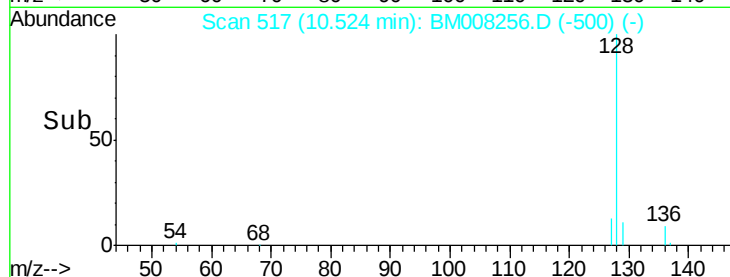
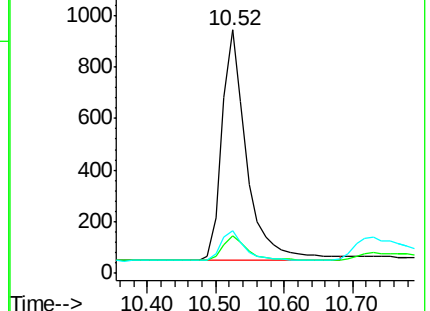
127 17.6 12.8 19.2



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: 0.40 ng/ul

RT: 12.14 min Scan# 666

Delta R.T. -0.01 min

Lab File: BM008256.D

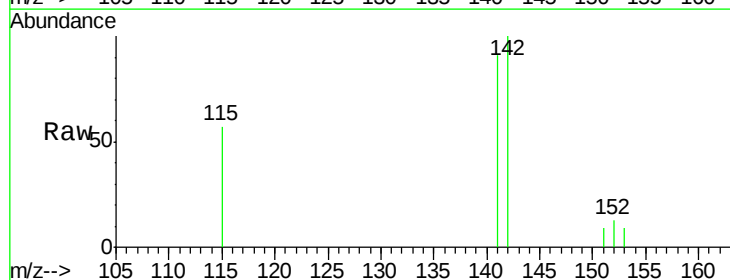
Acq: 11 Dec 2016 05:28

Tgt Ion:142 Resp: 1501

Ion Ratio Lower Upper

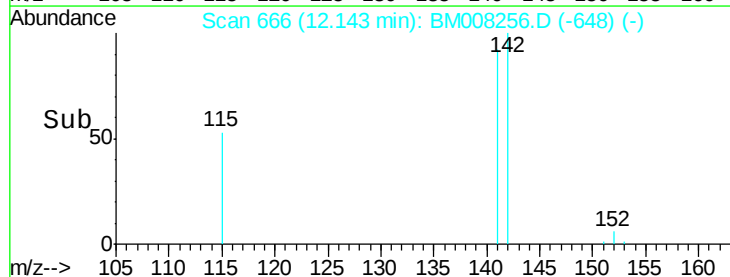
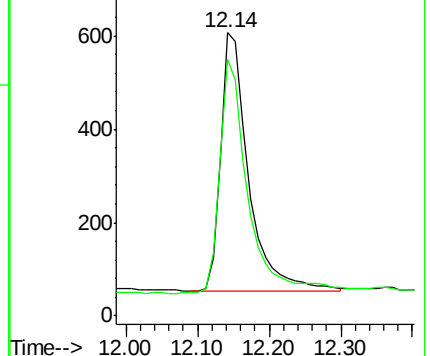
142 100

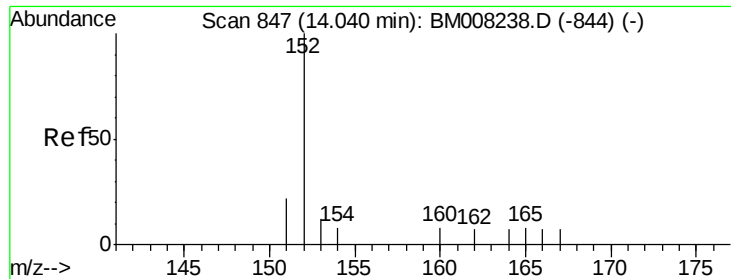
141 92.6 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.39 ng/ul

RT: 14.04 min Scan# 847

Delta R.T. -0.00 min

Lab File: BM008256.D

Acq: 11 Dec 2016 05:28

Instrument :

BNA\_M

ClientSampleId :

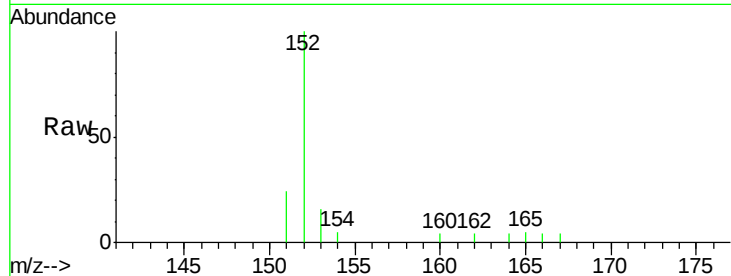
Tot Ion:152 Resp: 2121

Ion Ratio Lower Upper

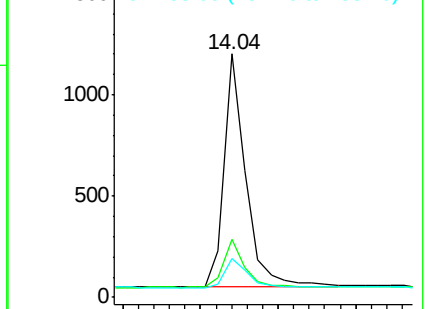
152 100

151 24.0 17.1 25.7

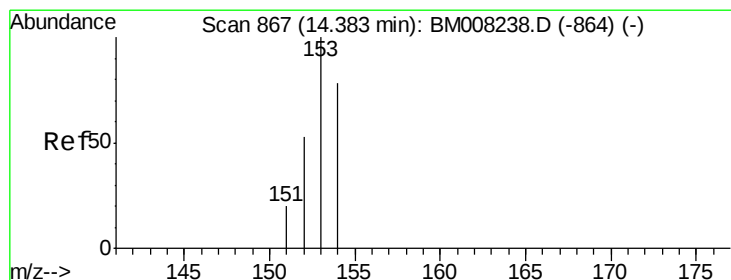
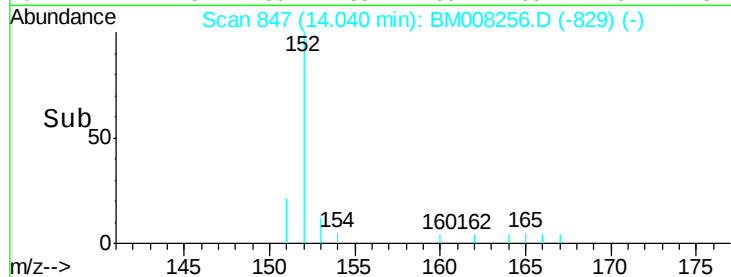
153 15.9 12.8 19.2



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



Time--> 13.90 14.00 14.10 14.20



#8

Acenaphthene

Concen: 0.40 ng/ul

RT: 14.38 min Scan# 867

Delta R.T. -0.00 min

Lab File: BM008256.D

Acq: 11 Dec 2016 05:28

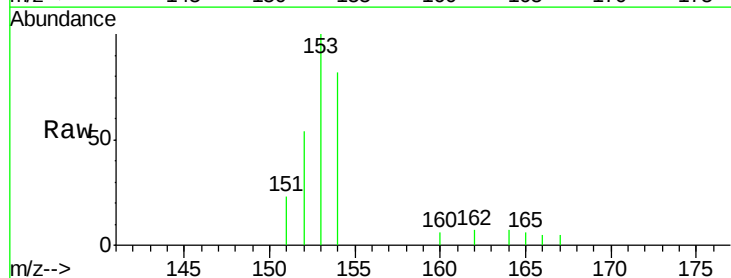
Tgt Ion:153 Resp: 1635

Ion Ratio Lower Upper

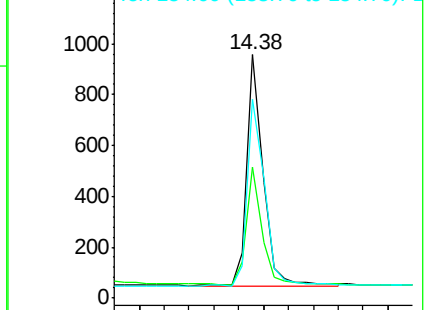
153 100

152 53.9 40.3 60.5

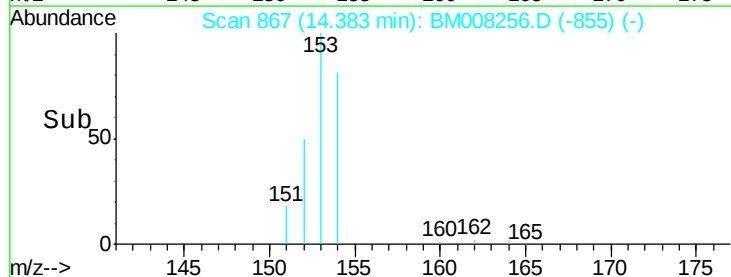
154 81.8 71.4 107.2

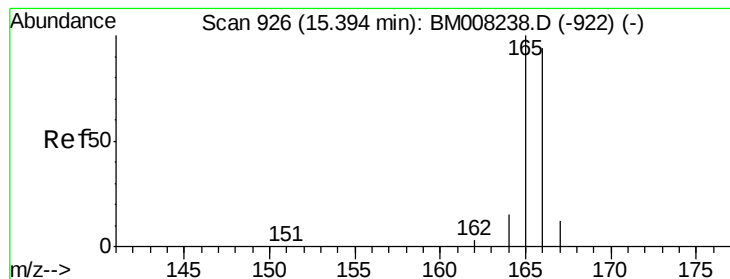


Abundance Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E  
Ion 154.00 (153.70 to 154.70): E



Time--> 14.20 14.40





#9

Fluorene

Concen: 0.38 ng/ul

RT: 15.39 min Scan# 926

Delta R.T. -0.00 min

Lab File: BM008256.D

Acq: 11 Dec 2016 05:28

Instrument :

BNA\_M

ClientSampleId :

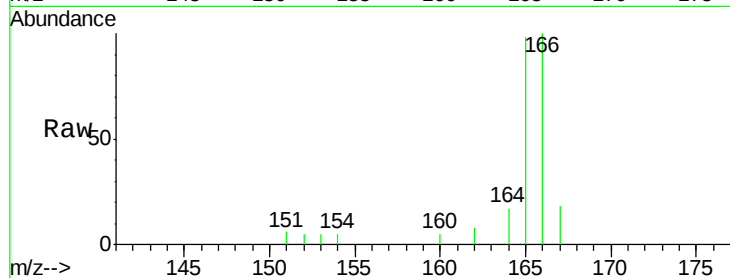
Tot Ion:166 Resp: 1771

Ion Ratio Lower Upper

166 100

165 98.3 73.4 110.2

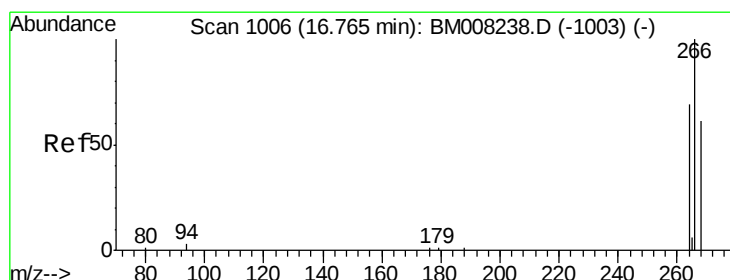
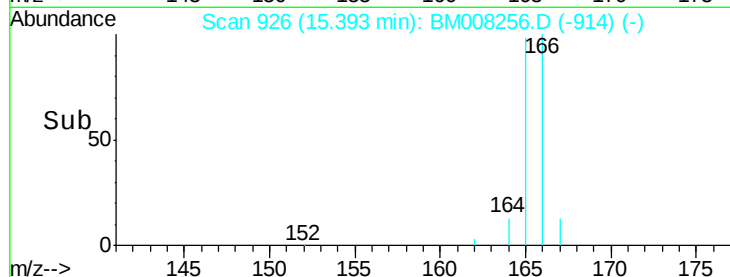
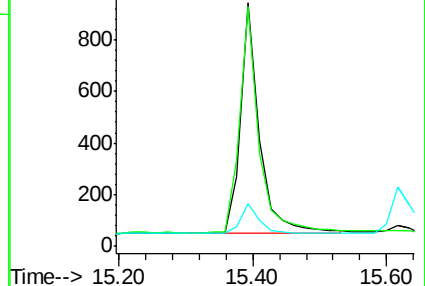
167 17.7 14.6 22.0



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



#11

Pentachlorophenol

Concen: 0.38 ng/ul

RT: 16.76 min Scan# 1006

Delta R.T. -0.00 min

Lab File: BM008256.D

Acq: 11 Dec 2016 05:28

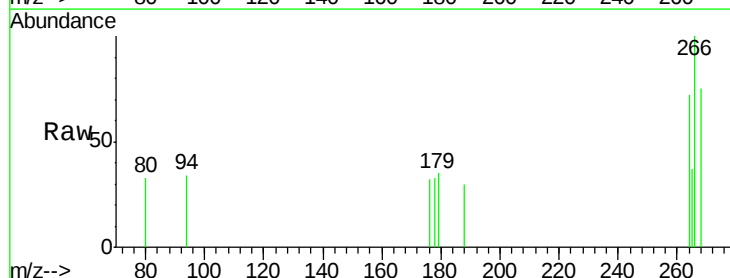
Tgt Ion:266 Resp: 269

Ion Ratio Lower Upper

266 100

264 67.7 47.9 71.9

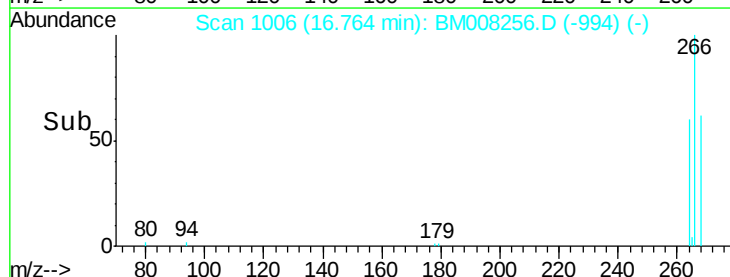
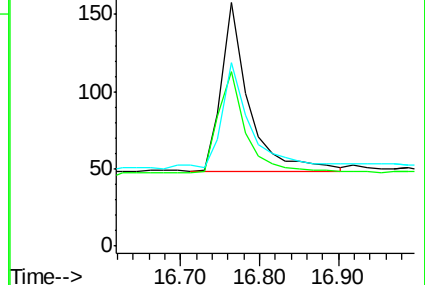
268 65.8 49.8 74.8

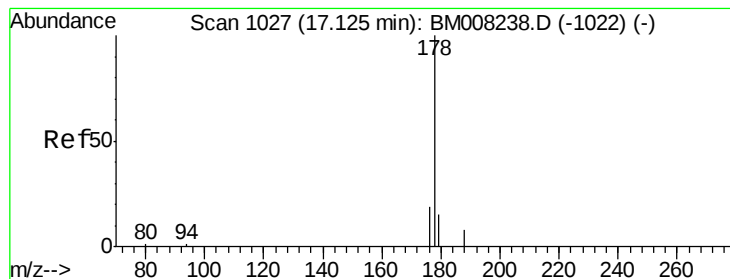


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#12

Phenanthrene

Concen: 0.41 ng/ul

RT: 17.12 min Scan# 1027

Delta R.T. -0.00 min

Lab File: BM008256.D

Acq: 11 Dec 2016 05:28

Instrument :

BNA\_M

ClientSampleId :

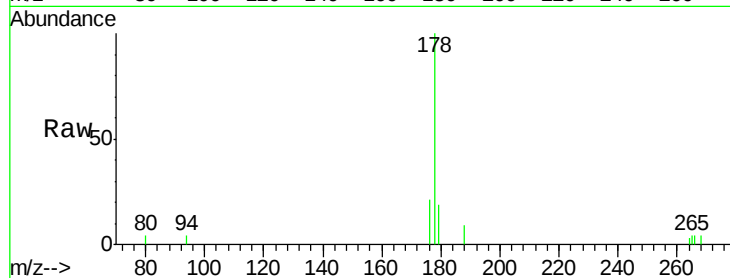
Tot Ion:178 Resp: 2551

Ion Ratio Lower Upper

178 100

176 21.4 18.4 27.6

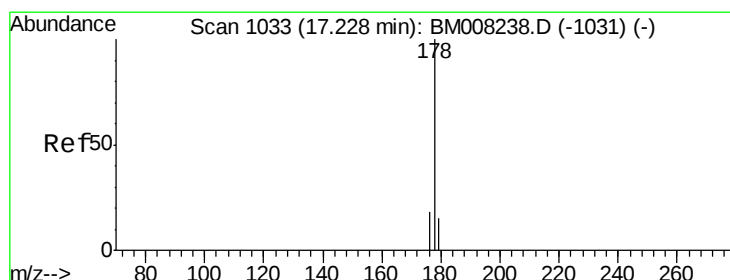
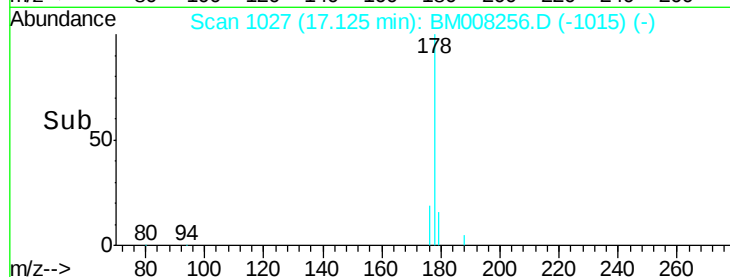
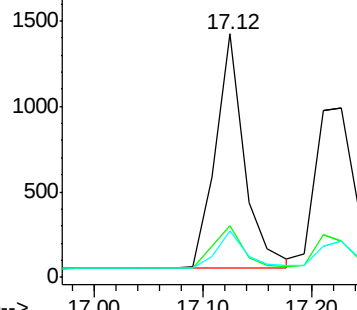
179 19.3 13.6 20.4



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: 0.43 ng/ul

RT: 17.23 min Scan# 1033

Delta R.T. -0.00 min

Lab File: BM008256.D

Acq: 11 Dec 2016 05:28

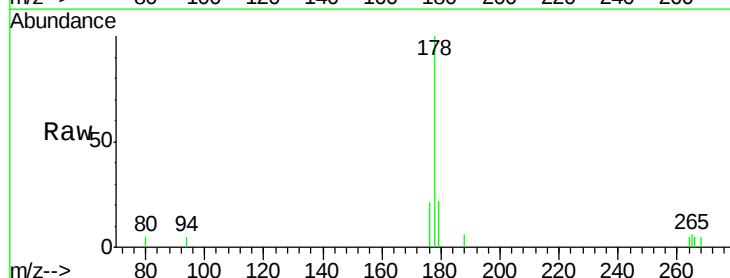
Tgt Ion:178 Resp: 2519

Ion Ratio Lower Upper

178 100

176 21.3 18.1 27.1

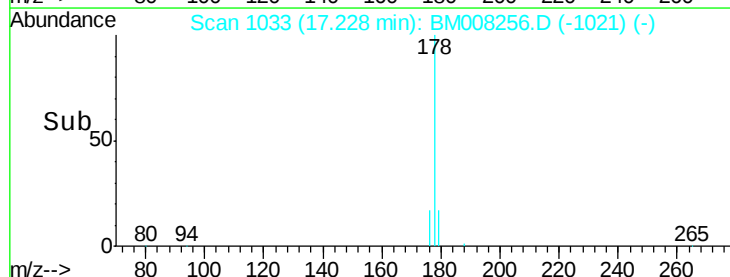
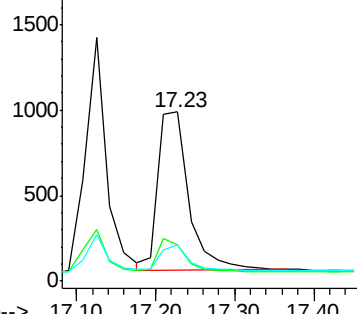
179 21.6 14.7 22.1

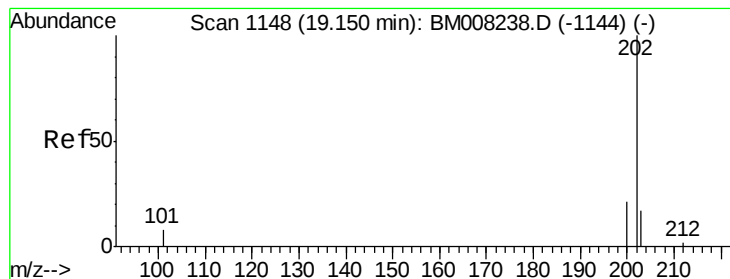


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.38 ng/ul

RT: 19.14 min Scan# 1148

Delta R.T. -0.01 min

Lab File: BM008256.D

Acq: 11 Dec 2016 05:28

Instrument :

BNA\_M

ClientSampleId :

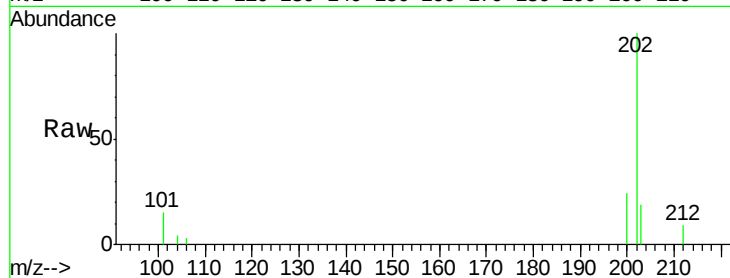
Tot Ion:202 Resp: 3055

Ion Ratio Lower Upper

202 100

101 15.1 0.0 30.3

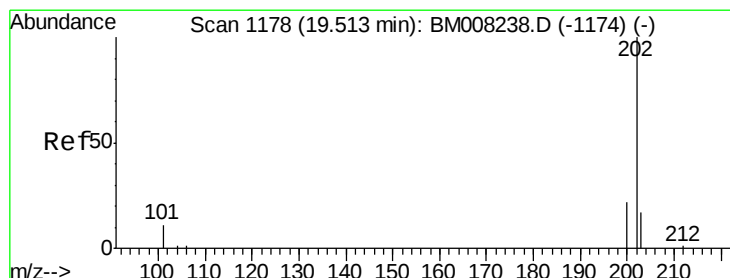
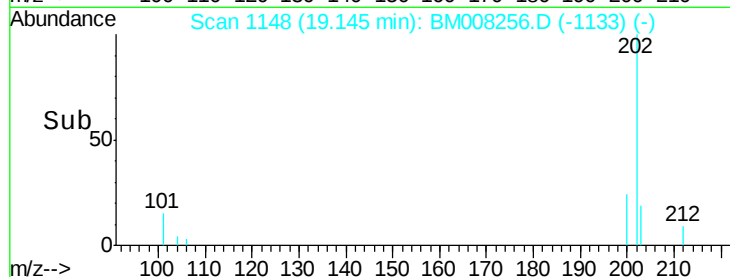
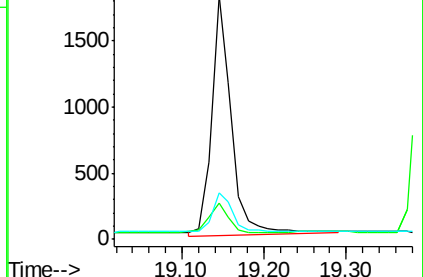
203 19.2 0.0 39.5



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: 0.52 ng/ul

RT: 19.51 min Scan# 1178

Delta R.T. -0.01 min

Lab File: BM008256.D

Acq: 11 Dec 2016 05:28

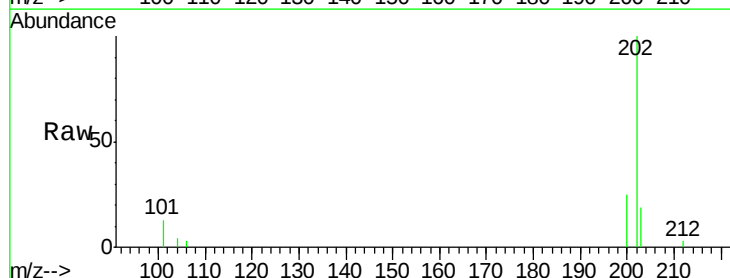
Tgt Ion:202 Resp: 3001

Ion Ratio Lower Upper

202 100

200 25.0 18.2 27.4

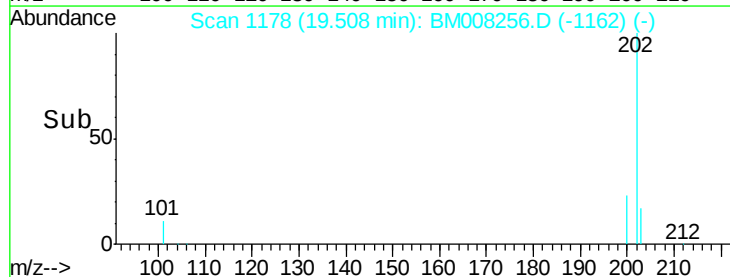
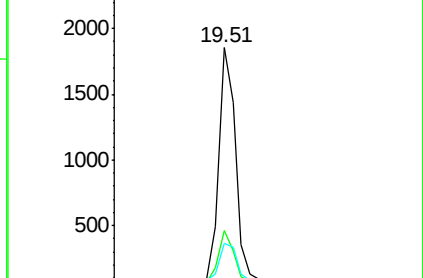
203 19.4 15.6 23.4

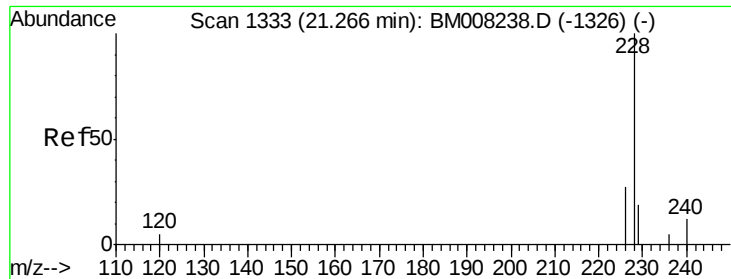


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Benzo(a)anthracene

Concen: 0.48 ng/ul

RT: 21.26 min Scan# 1333

Delta R.T. -0.00 min

Lab File: BM008256.D

Acq: 11 Dec 2016 05:28

Instrument :

BNA\_M

ClientSampleId :

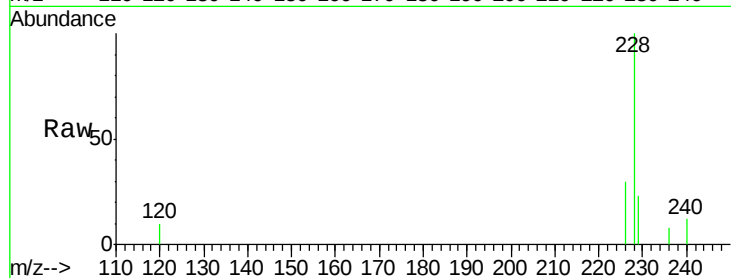
Tot Ion:228 Resp: 2434

Ion Ratio Lower Upper

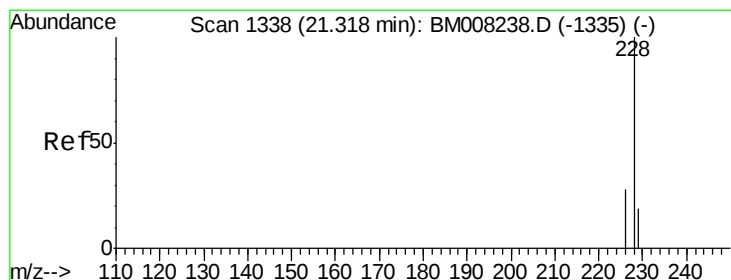
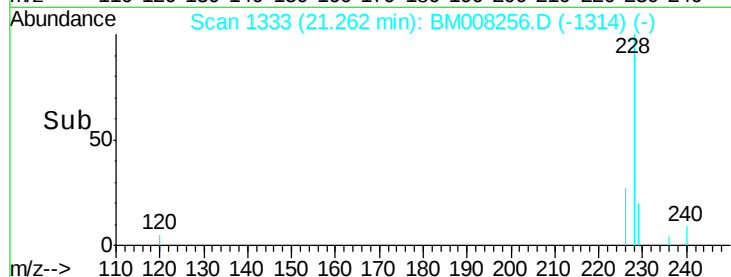
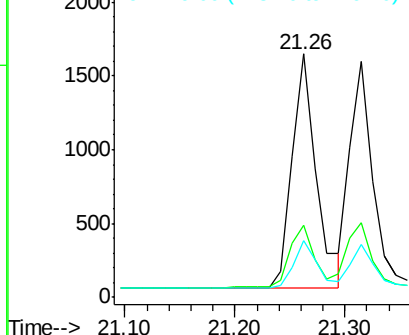
228 100

226 29.6 22.8 34.2

229 23.2 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: 0.36 ng/ul

RT: 21.31 min Scan# 1338

Delta R.T. -0.00 min

Lab File: BM008256.D

Acq: 11 Dec 2016 05:28

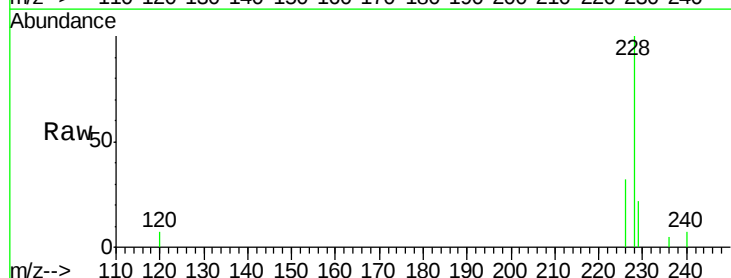
Tgt Ion:228 Resp: 2284

Ion Ratio Lower Upper

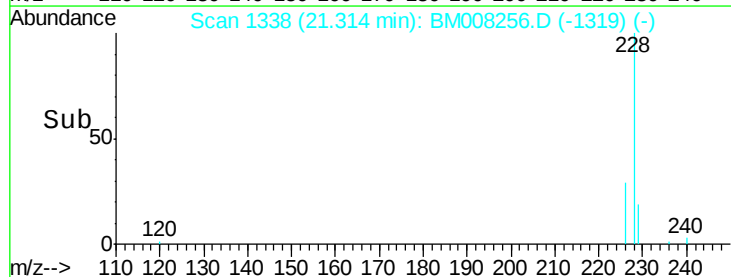
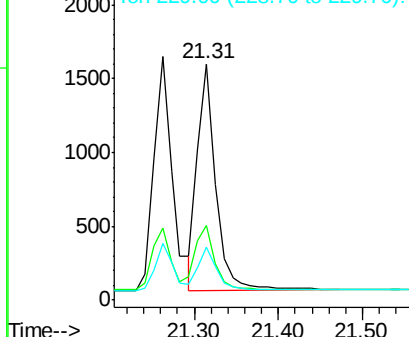
228 100

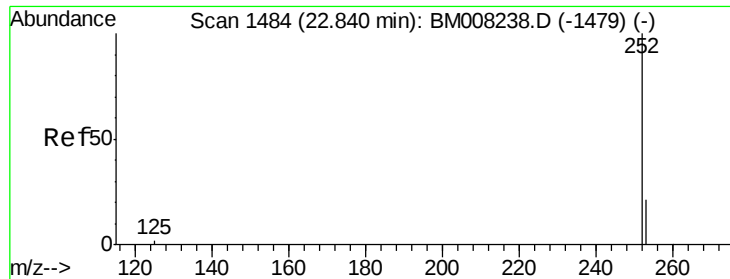
226 31.6 23.4 35.0

229 22.4 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: 0.36 ng/ul

RT: 22.84 min Scan# 1484

Delta R.T. -0.00 min

Lab File: BM008256.D

Acq: 11 Dec 2016 05:28

Instrument :

BNA\_M

ClientSampleId :

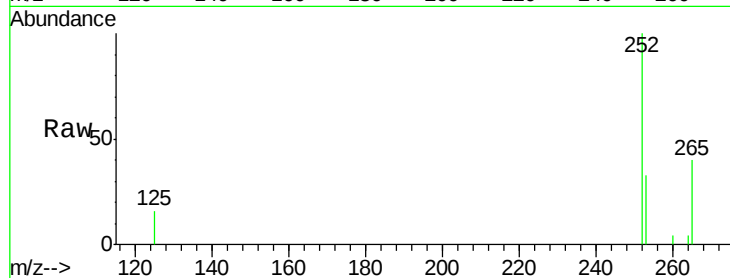
Tot Ion:252 Resp: 2276

Ion Ratio Lower Upper

252 100

253 33.5 0.0 64.2

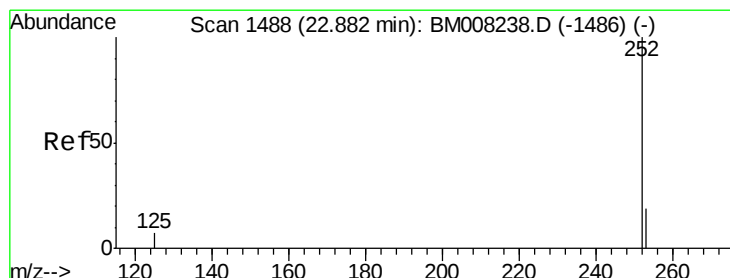
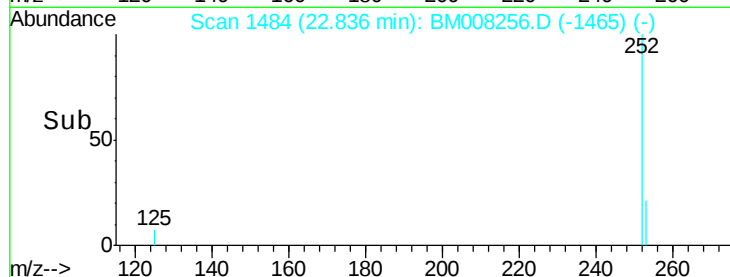
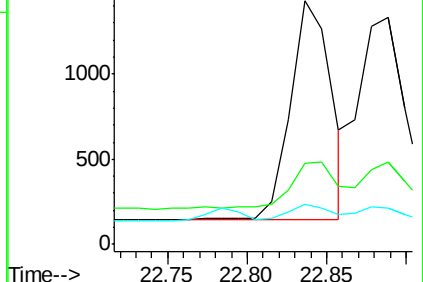
125 16.4 0.0 35.0



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: 0.38 ng/ul

RT: 22.89 min Scan# 1489

Delta R.T. 0.01 min

Lab File: BM008256.D

Acq: 11 Dec 2016 05:28

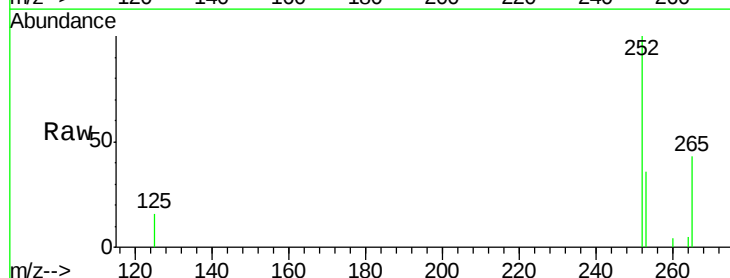
Tgt Ion:252 Resp: 2535

Ion Ratio Lower Upper

252 100

253 36.1 24.5 36.7

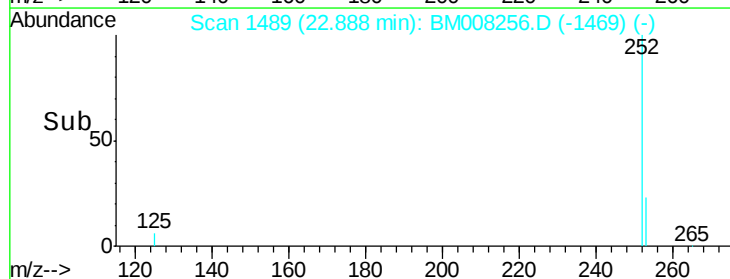
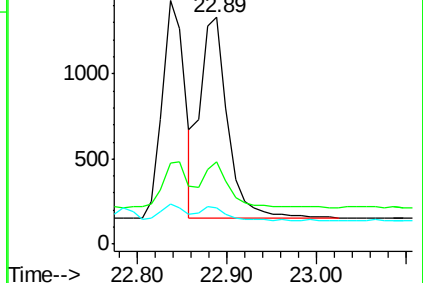
125 15.9 13.7 20.5

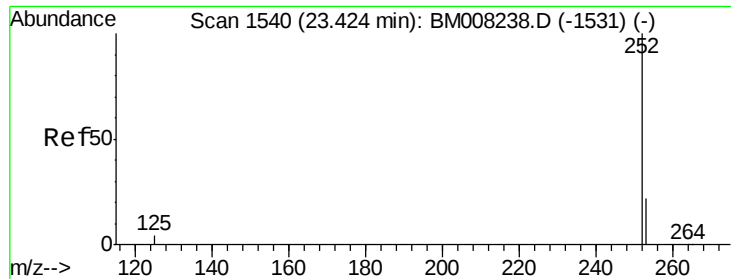


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.39 ng/ul

RT: 23.42 min Scan# 1540

Delta R.T. -0.00 min

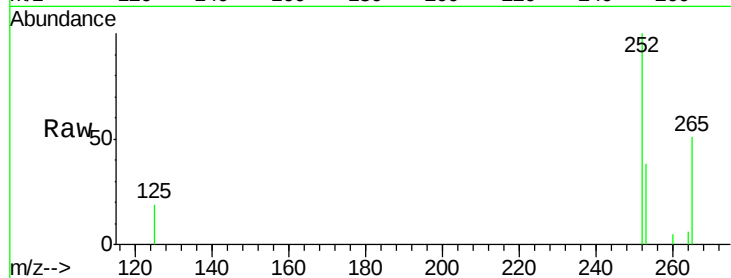
Lab File: BM008256.D

Acq: 11 Dec 2016 05:28

Instrument :

BNA\_M

ClientSampled :



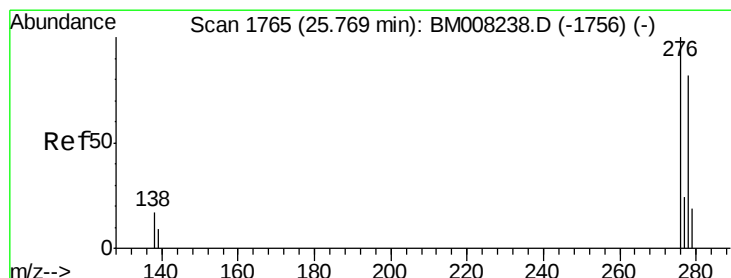
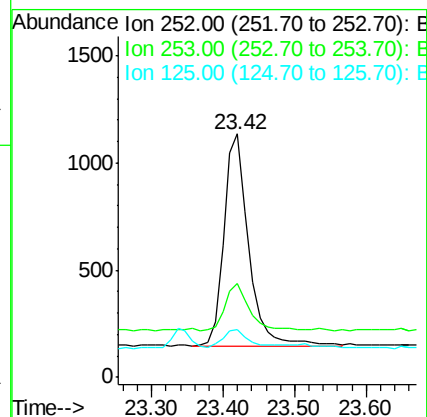
Tot Ion:252 Resp: 2354

Ion Ratio Lower Upper

252 100

253 38.4 28.5 42.7

125 19.4 18.1 27.1



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.39 ng/ul

RT: 25.77 min Scan# 1765

Delta R.T. -0.00 min

Lab File: BM008256.D

Acq: 11 Dec 2016 05:28

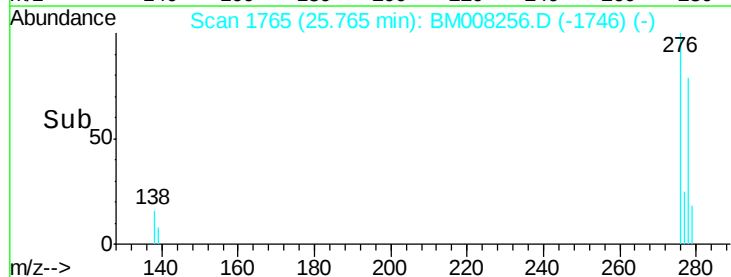
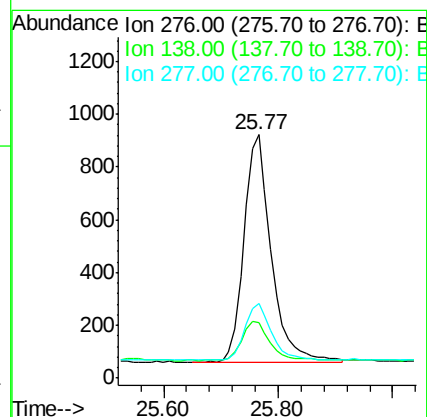
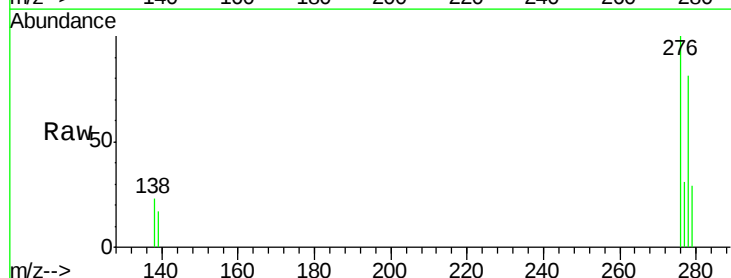
Tgt Ion:276 Resp: 2855

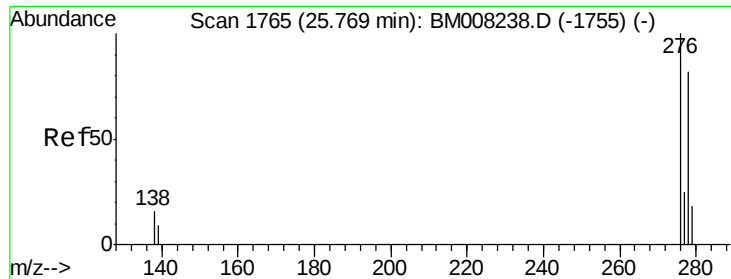
Ion Ratio Lower Upper

276 100

138 18.0 19.1 28.7#

277 24.3 19.6 29.4





#25

Dibenzo(a,h)anthracene

Concen: 0.38 ng/ul

RT: 25.77 min Scan# 1765

Delta R.T. -0.00 min

Lab File: BM008256.D

Acq: 11 Dec 2016 05:28

Instrument :

BNA\_M

ClientSampleId :

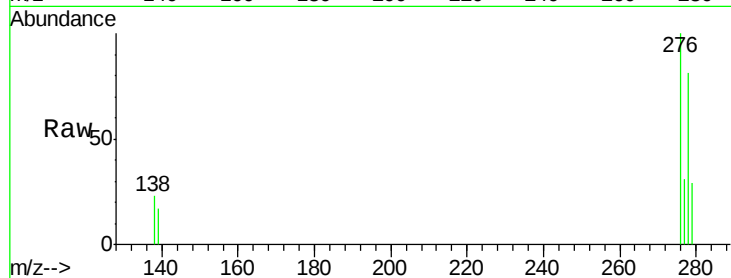
Tot Ion:278 Resp: 2254

Ion Ratio Lower Upper

278 100

139 20.5 17.4 26.0

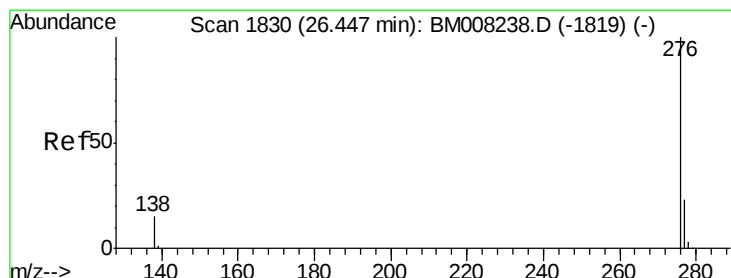
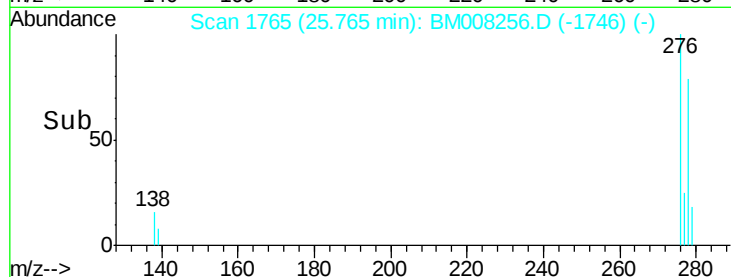
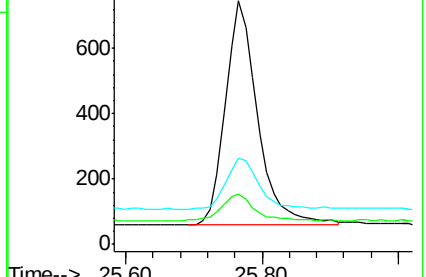
279 35.6 25.9 38.9



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: 0.37 ng/ul

RT: 26.44 min Scan# 1830

Delta R.T. -0.00 min

Lab File: BM008256.D

Acq: 11 Dec 2016 05:28

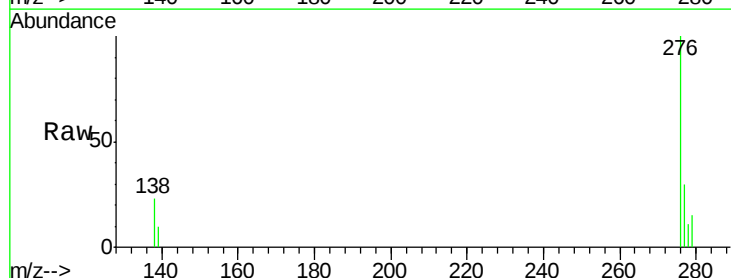
Tgt Ion:276 Resp: 2424

Ion Ratio Lower Upper

276 100

277 30.0 21.8 32.8

138 23.0 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

