

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM112115\  
 Data File : BM003259.D  
 Acq On : 21 Nov 2015 21:41  
 Operator : UM/IZ  
 Sample : G4323-32MS  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A4J60MS

Quant Time: Nov 22 04:46:08 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-SIM-BM111815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sun Nov 22 04:42:03 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.74  | 152  | 15963    | 0.40 | ng/ul | 0.00     |
| 4) Naphthalene-d8         | 10.52 | 136  | 63586    | 0.40 | ng/ul | -0.01    |
| 8) Acenaphthene-d10       | 14.38 | 164  | 32099    | 0.40 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.12 | 188  | 63199    | 0.40 | ng/ul | 0.00     |
| 18) Chrysene-d12          | 21.33 | 240  | 56314    | 0.40 | ng/ul | 0.00     |
| 22) Perylene-d12          | 23.59 | 264  | 57060    | 0.40 | ng/ul | 0.00     |

|                             |       |     |       |      |       |       |
|-----------------------------|-------|-----|-------|------|-------|-------|
| System Monitoring Compounds |       |     |       |      |       |       |
| 2) 1,4-Dioxane-d8           | 3.16  | 96  | 646   | 0.04 | ng/uL | -0.03 |
| 6) 2-Methylnaphthalene-d10  | 12.12 | 152 | 18687 | 0.22 | ng/ul | 0.00  |
| 16) Fluoranthene-d10        | 19.16 | 212 | 34340 | 0.22 | ng/ul | 0.00  |

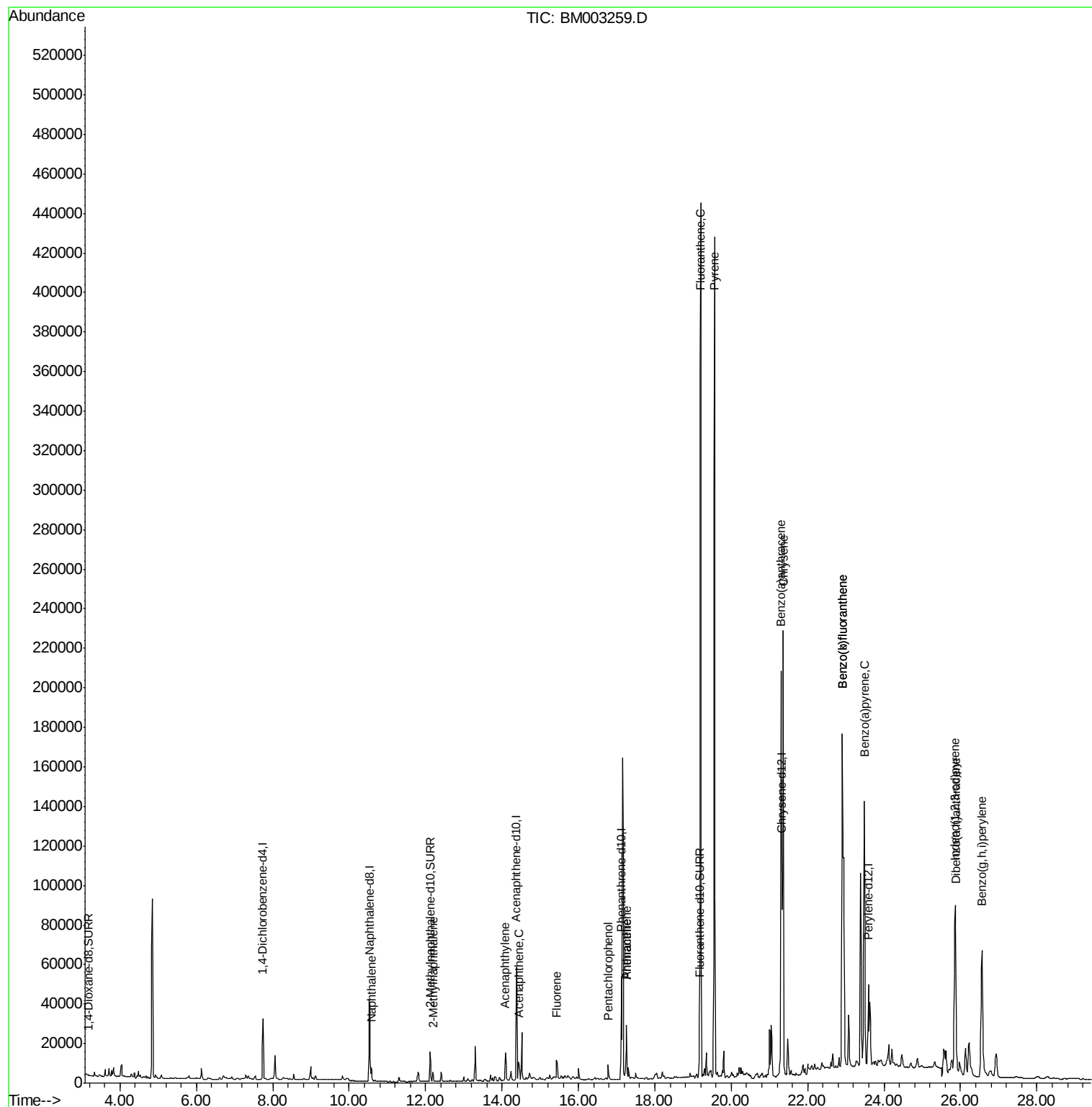
|                            |       |     |        |        |        |     |
|----------------------------|-------|-----|--------|--------|--------|-----|
| Target Compounds           |       |     |        | Qvalue |        |     |
| 5) Naphthalene             | 10.57 | 128 | 9873   | 0.06   | ng/ul# | 94  |
| 7) 2-Methylnaphthalene     | 12.19 | 142 | 3509   | 0.03   | ng/ul# | 100 |
| 9) Acenaphthylene          | 14.09 | 152 | 18778  | 0.14   | ng/ul  | 99  |
| 10) Acenaphthene           | 14.43 | 153 | 7023   | 0.06   | ng/ul# | 78  |
| 11) Fluorene               | 15.44 | 166 | 10375  | 0.08   | ng/ul# | 96  |
| 13) Pentachlorophenol      | 16.78 | 266 | 5165   | 0.35   | ng/ul  | 94  |
| 14) Phenanthrene           | 17.26 | 178 | 34319  | 0.19   | ng/ul  | 99  |
| 15) Anthracene             | 17.26 | 178 | 37808  | 0.25   | ng/ul  | 98  |
| 17) Fluoranthene           | 19.20 | 202 | 455153 | 2.24   | ng/ul  | 92  |
| 19) Pyrene                 | 19.56 | 202 | 416514 | 2.16   | ng/ul  | 93  |
| 20) Benzo(a)anthracene     | 21.31 | 228 | 180250 | 1.10   | ng/ul# | 91  |
| 21) Chrysene               | 21.36 | 228 | 215596 | 1.17   | ng/ul  | 95  |
| 23) Benzo(b)fluoranthene   | 22.90 | 252 | 383195 | 1.77   | ng/ul  | 98  |
| 24) Benzo(k)fluoranthene   | 22.90 | 252 | 383195 | 1.87   | ng/ul# | 94  |
| 25) Benzo(a)pyrene         | 23.48 | 252 | 189148 | 0.98   | ng/ul  | 98  |
| 26) Indeno(1,2,3-cd)pyrene | 25.86 | 276 | 139217 | 0.61   | ng/ul# | 93  |
| 27) Dibenzo(a,h)anthracene | 25.87 | 278 | 31600  | 0.17   | ng/ul# | 84  |
| 28) Benzo(g,h,i)perylene   | 26.56 | 276 | 132504 | 0.66   | ng/ul  | 99  |

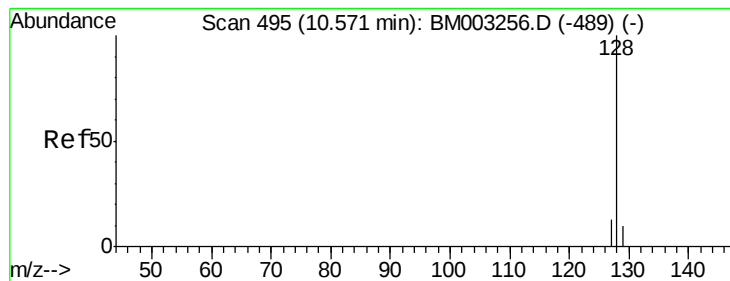
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM112115\  
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Quant Time: Nov 22 04:46:08 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-SIM-BM111815.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sun Nov 22 04:42:03 2015  
Response via : Initial Calibration





#5

Naphthalene

Concen: 0.06 ng/ul

RT: 10.57 min Scan# 495

Delta R.T. 0.00 min

Lab File: BM003259.D

Acq: 21 Nov 2015 21:41

Instrument :

BNA\_M

ClientSampleId :

A4J60MS

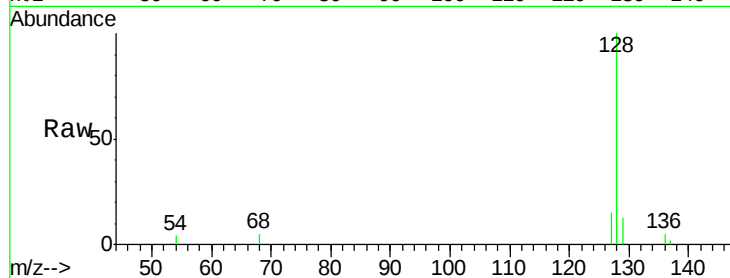
Tgt Ion:128 Resp: 9873

Ion Ratio Lower Upper

128 100

129 12.7 9.0 13.6

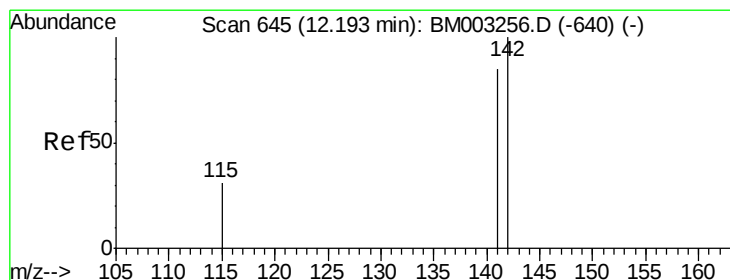
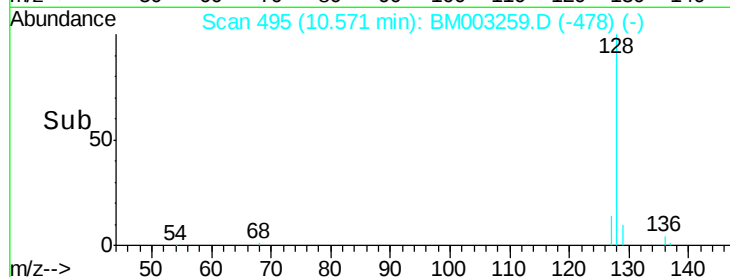
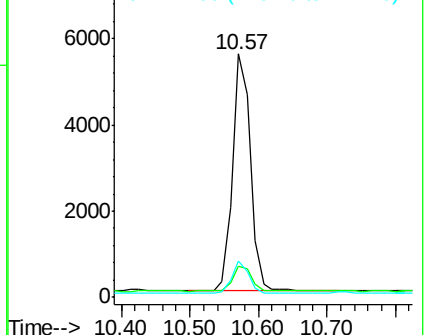
127 14.9 9.6 14.4#



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

2-Methylnaphthalene

Concen: 0.03 ng/ul

RT: 12.19 min Scan# 645

Delta R.T. 0.00 min

Lab File: BM003259.D

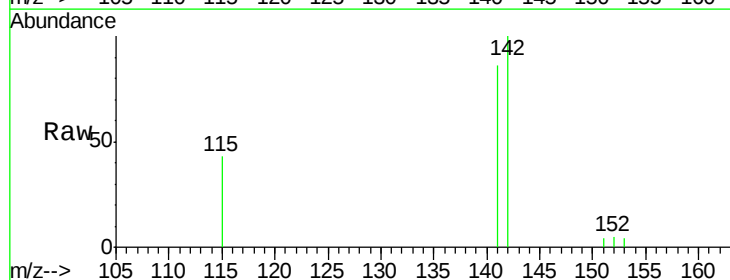
Acq: 21 Nov 2015 21:41

Tgt Ion:142 Resp: 3509

Ion Ratio Lower Upper

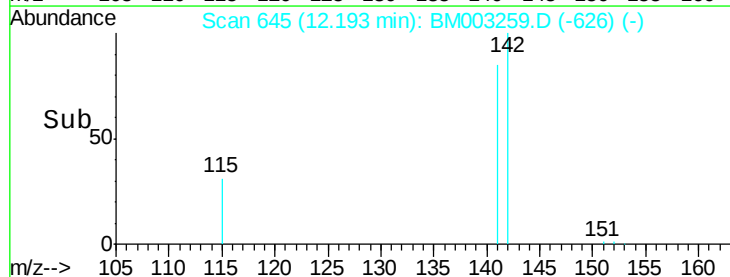
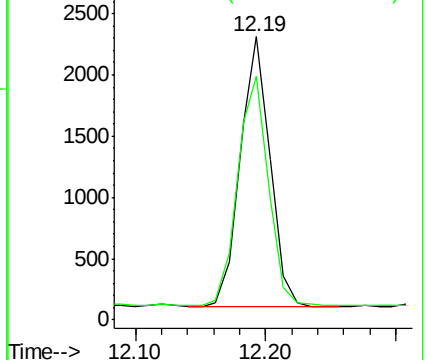
142 100

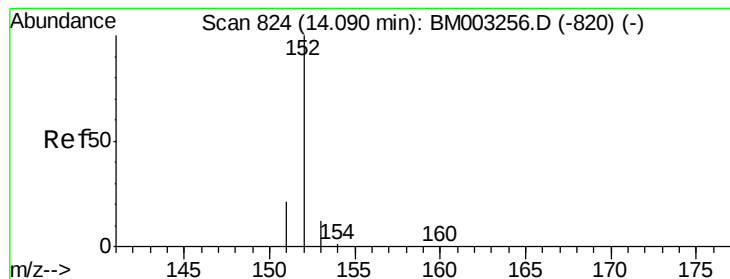
141 86.9 0.0 0.0#



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#9

Acenaphthylene

Concen: 0.14 ng/ul

RT: 14.09 min Scan# 824

Delta R.T. 0.00 min

Lab File: BM003259.D

Acq: 21 Nov 2015 21:41

Instrument :

BNA\_M

ClientSampleId :

A4J60MS

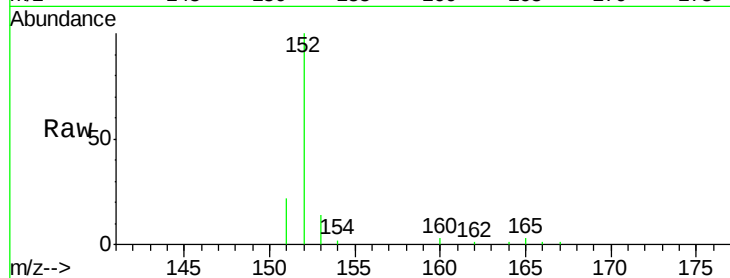
Tgt Ion:152 Resp: 18778

Ion Ratio Lower Upper

152 100

151 22.0 17.6 26.4

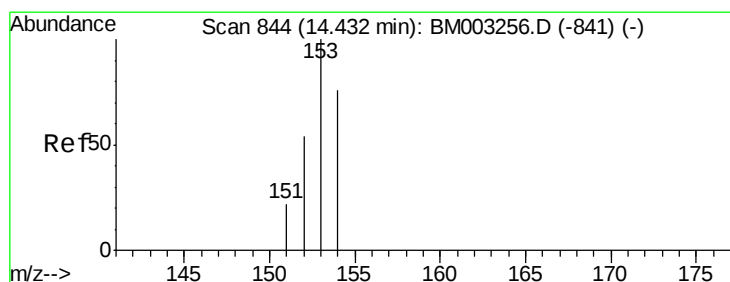
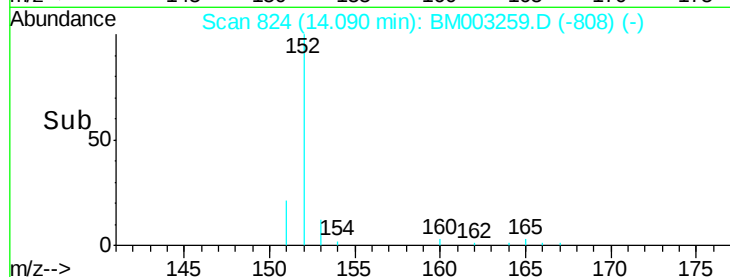
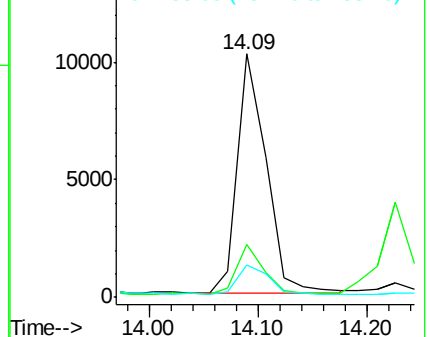
153 13.6 9.7 14.5



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



#10

Acenaphthene

Concen: 0.06 ng/ul

RT: 14.43 min Scan# 844

Delta R.T. 0.00 min

Lab File: BM003259.D

Acq: 21 Nov 2015 21:41

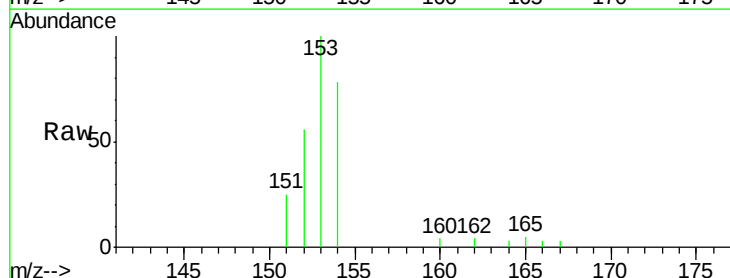
Tgt Ion:153 Resp: 7023

Ion Ratio Lower Upper

153 100

152 56.0 33.9 50.9#

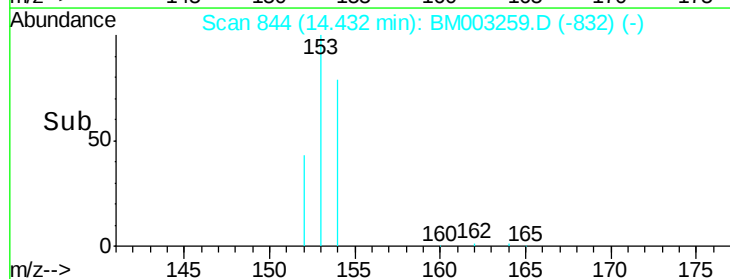
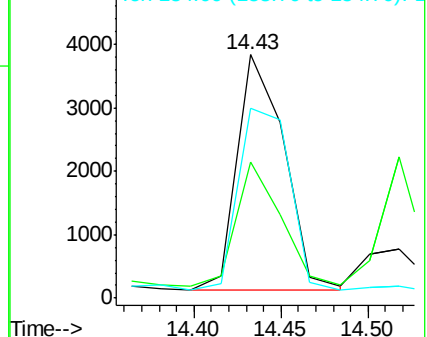
154 78.1 80.6 121.0#

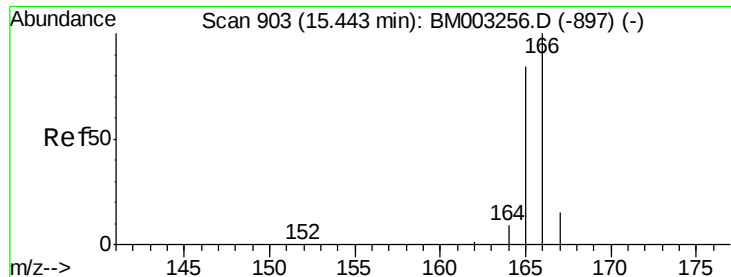


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#11

Fluorene

Concen: 0.08 ng/ul

RT: 15.44 min Scan# 903

Delta R.T. 0.00 min

Lab File: BM003259.D

Acq: 21 Nov 2015 21:41

Instrument :

BNA\_M

ClientSampleId :

A4J60MS

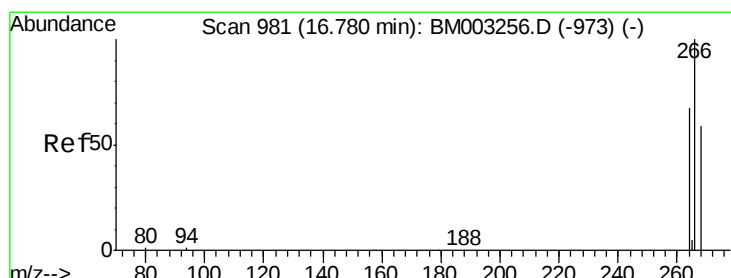
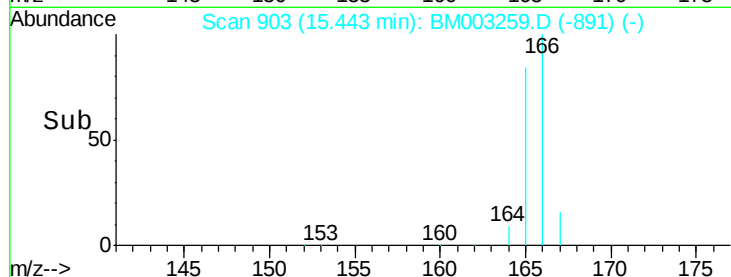
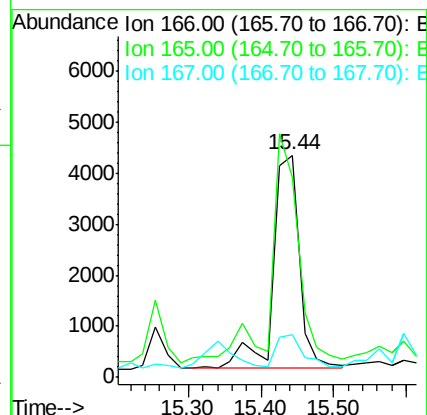
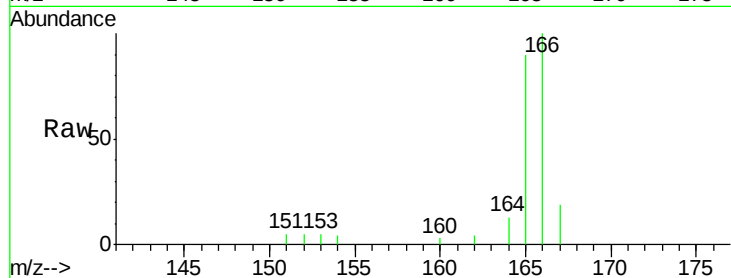
Tgt Ion:166 Resp: 10375

Ion Ratio Lower Upper

166 100

165 89.8 69.6 104.4

167 19.1 11.9 17.9#



#13

Pentachlorophenol

Concen: 0.35 ng/ul

RT: 16.78 min Scan# 981

Delta R.T. 0.00 min

Lab File: BM003259.D

Acq: 21 Nov 2015 21:41

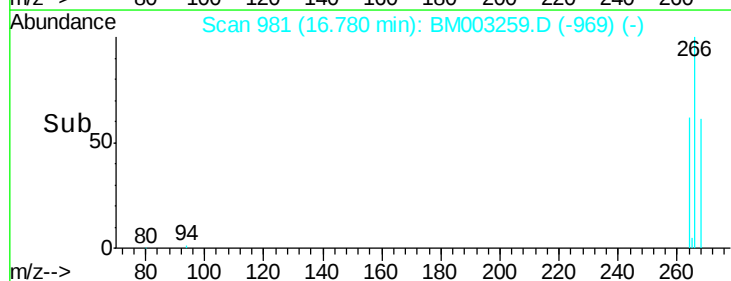
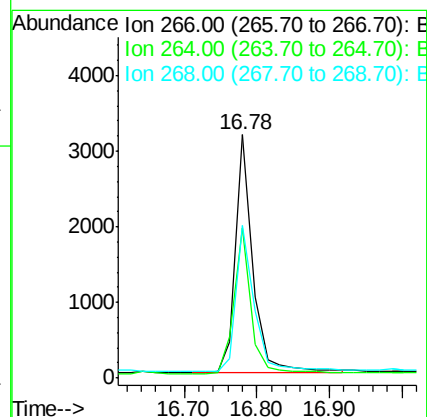
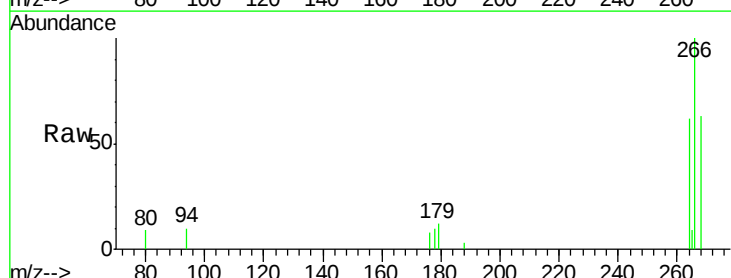
Tgt Ion:266 Resp: 5165

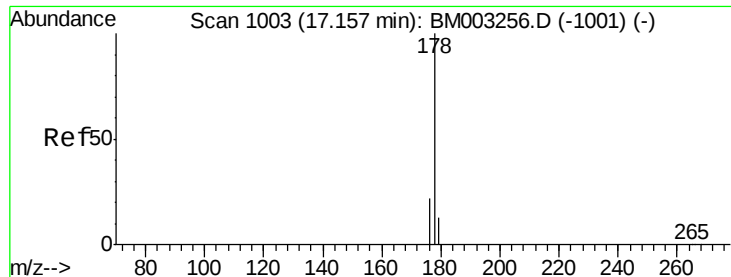
Ion Ratio Lower Upper

266 100

264 61.2 51.8 77.8

268 63.9 46.8 70.2





#14

Phenanthrene

Concen: 0.19 ng/ul

RT: 17.26 min Scan# 1009

Delta R.T. 0.10 min

Lab File: BM003259.D

Acq: 21 Nov 2015 21:41

Instrument :

BNA\_M

ClientSampleId :

A4J60MS

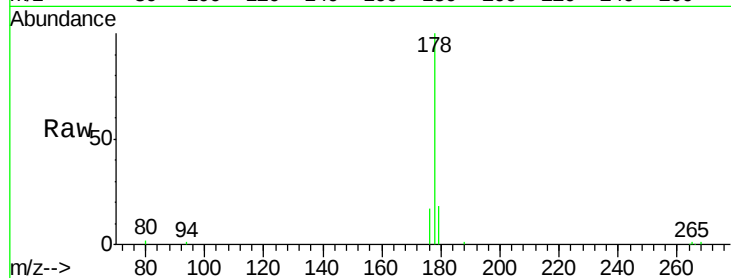
Tgt Ion:178 Resp: 34319

Ion Ratio Lower Upper

178 100

176 17.3 13.0 19.4

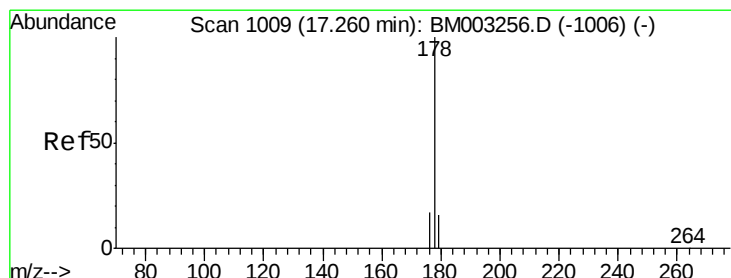
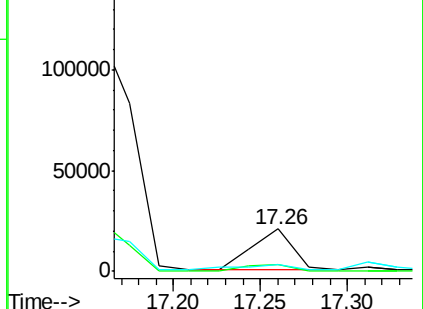
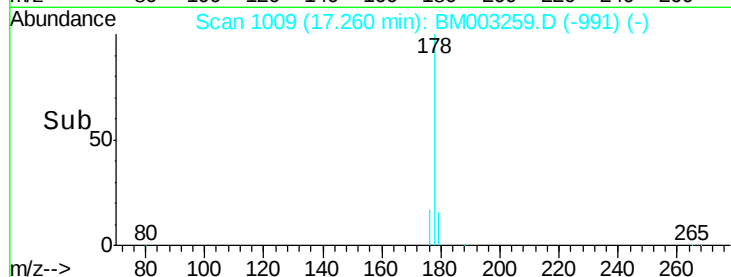
179 17.6 14.2 21.2



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



#15

Anthracene

Concen: 0.25 ng/ul

RT: 17.26 min Scan# 1009

Delta R.T. 0.00 min

Lab File: BM003259.D

Acq: 21 Nov 2015 21:41

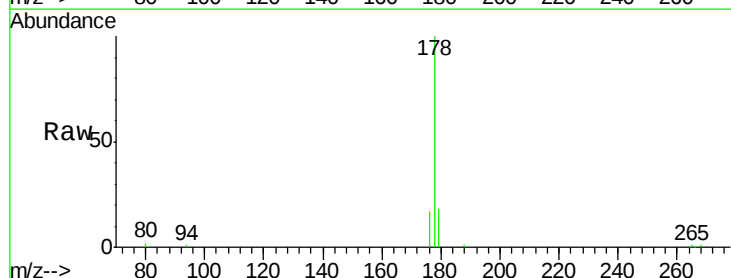
Tgt Ion:178 Resp: 37808

Ion Ratio Lower Upper

178 100

176 17.3 14.0 21.0

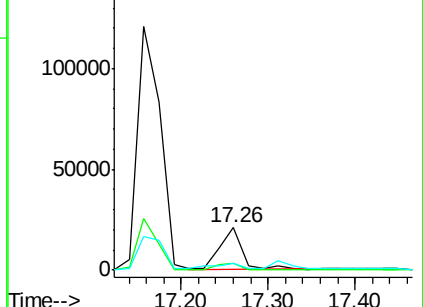
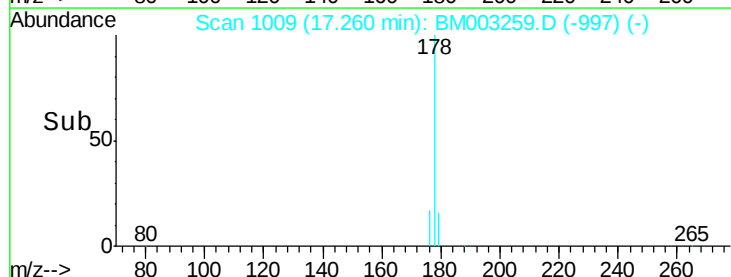
179 17.6 12.9 19.3

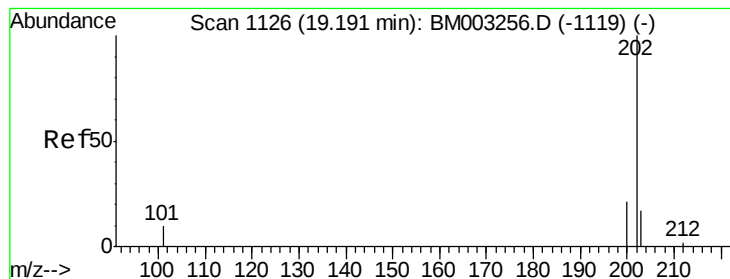


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#17

Fluoranthene

Concen: 2.24 ng/ul

RT: 19.20 min Scan# 1126

Delta R.T. 0.01 min

Lab File: BM003259.D

Acq: 21 Nov 2015 21:41

Instrument :

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ClientSampleId :

A4J60MS

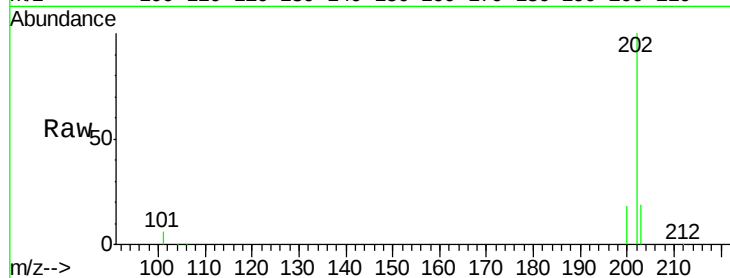
Tgt Ion:202 Resp: 455153

Ion Ratio Lower Upper

202 100

101 5.6 0.0 29.6

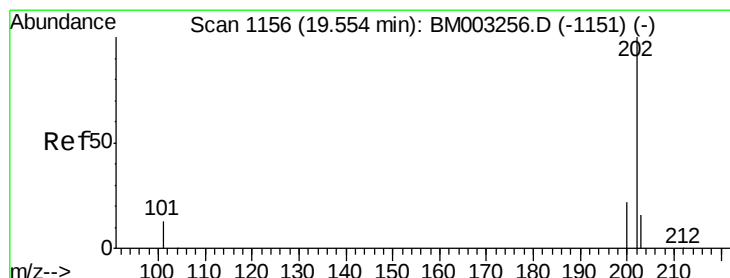
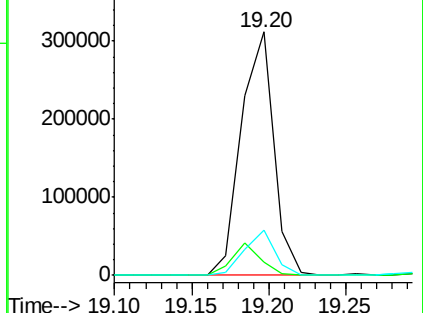
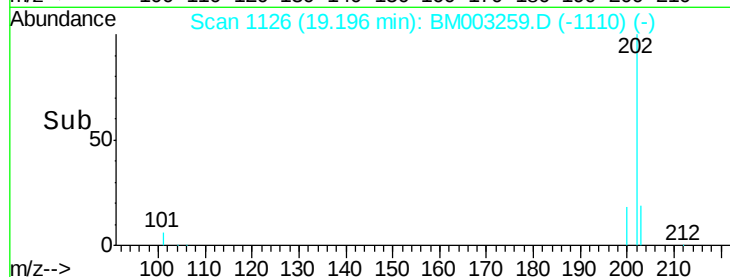
203 18.8 0.0 36.3



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: 2.16 ng/ul

RT: 19.56 min Scan# 1156

Delta R.T. 0.01 min

Lab File: BM003259.D

Acq: 21 Nov 2015 21:41

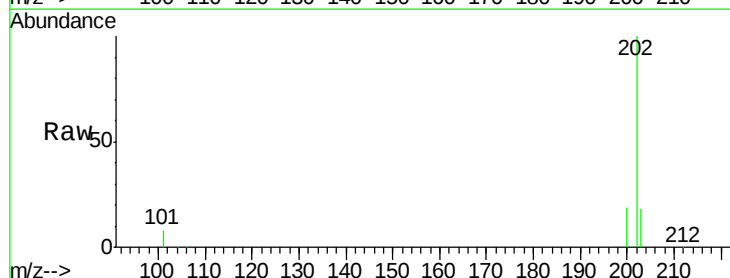
Tgt Ion:202 Resp: 416514

Ion Ratio Lower Upper

202 100

200 18.8 17.8 26.8

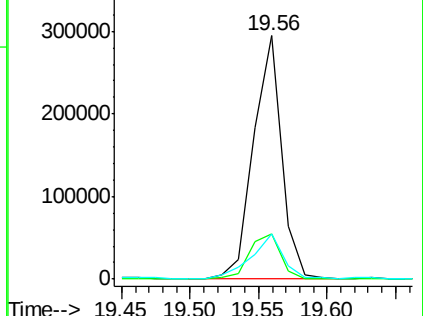
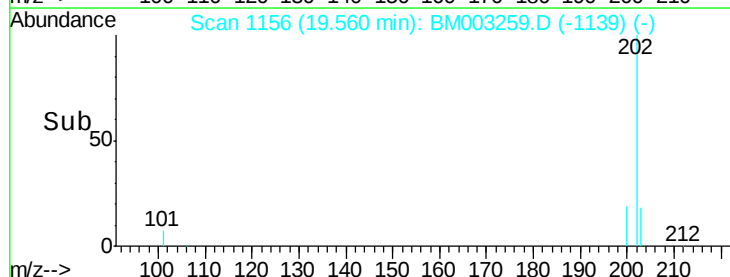
203 18.5 12.8 19.2

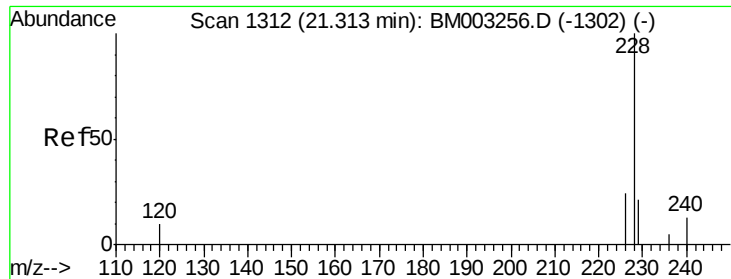


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#20

Benzo(a)anthracene

Concen: 1.10 ng/ul

RT: 21.31 min Scan# 1311

Delta R.T. -0.01 min

Lab File: BM003259.D

Acq: 21 Nov 2015 21:41

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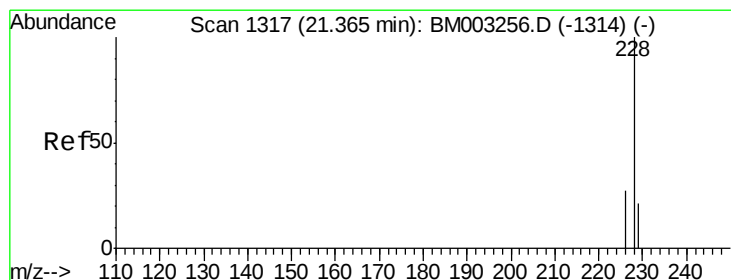
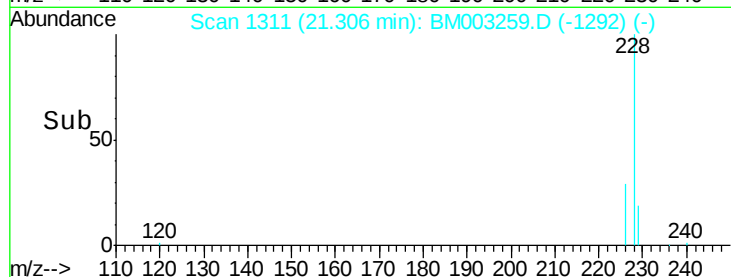
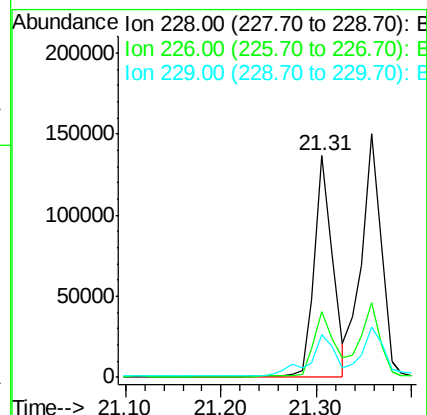
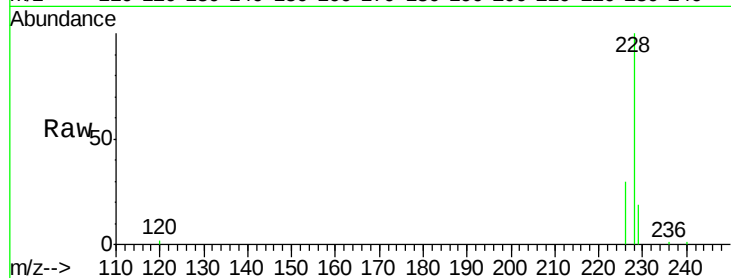
Tgt Ion:228 Resp: 180250

Ion Ratio Lower Upper

228 100

226 29.7 18.8 28.2#

229 19.4 17.1 25.7



#21

Chrysene

Concen: 1.17 ng/ul

RT: 21.36 min Scan# 1316

Delta R.T. -0.01 min

Lab File: BM003259.D

Acq: 21 Nov 2015 21:41

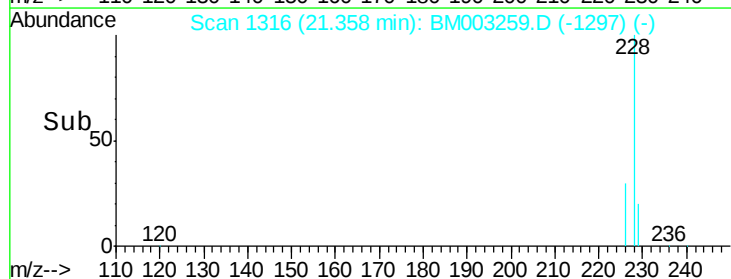
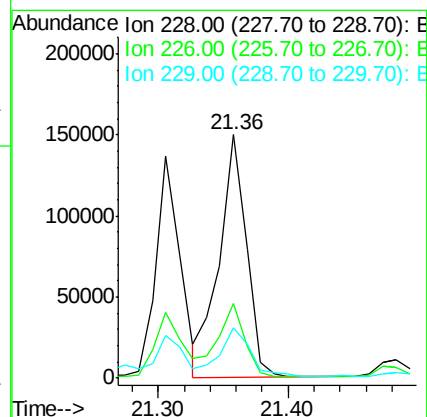
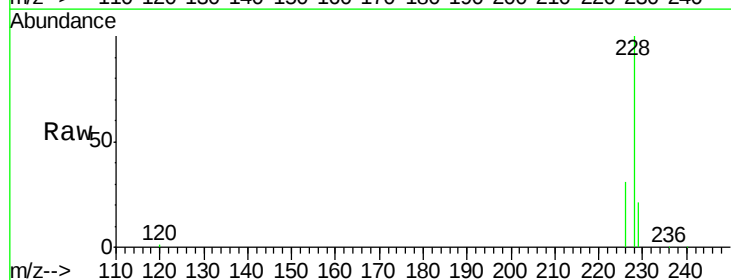
Tgt Ion:228 Resp: 215596

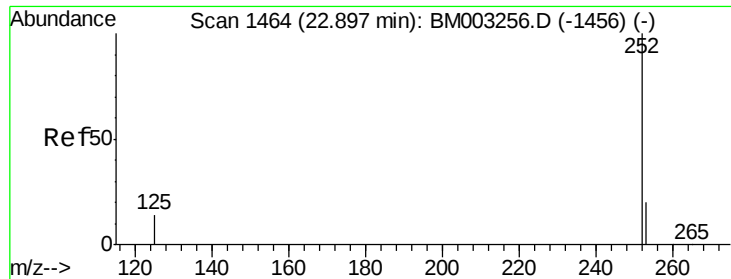
Ion Ratio Lower Upper

228 100

226 30.7 21.2 31.8

229 20.6 17.0 25.6





#23

Benzo(b)fluoranthene

Concen: 1.77 ng/ul

RT: 22.90 min Scan# 1464

Delta R.T. 0.00 min

Lab File: BM003259.D

Acq: 21 Nov 2015 21:41

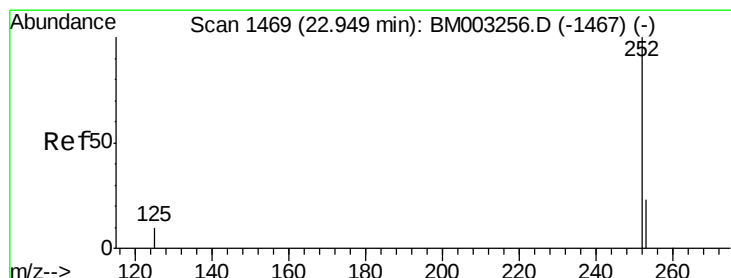
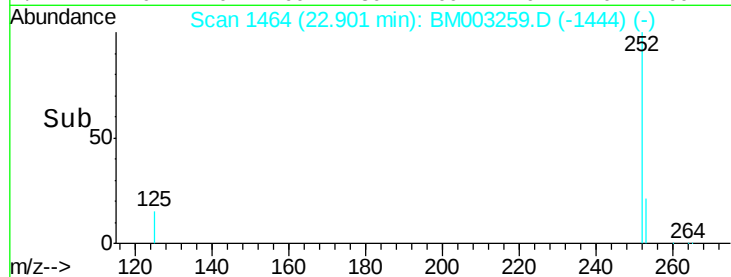
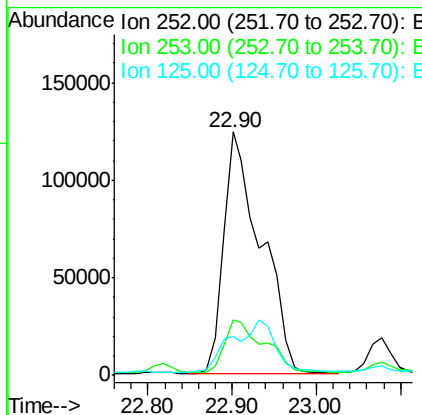
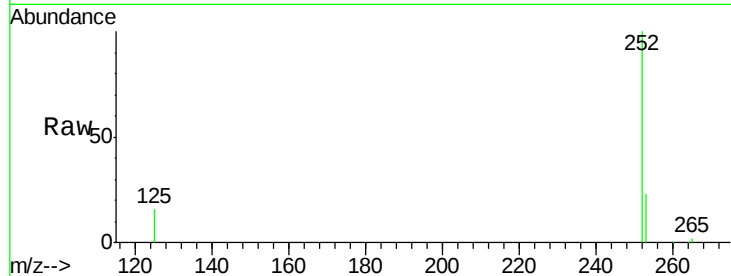
Instrument :

BNA\_M

ClientSampleId :

A4J60MS

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 383195 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.6  | 0.0   | 45.4   |
| 125       | 16.2  | 0.0   | 28.8   |



#24

Benzo(k)fluoranthene

Concen: 1.87 ng/ul

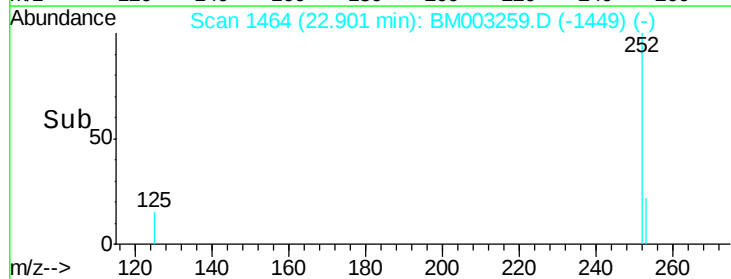
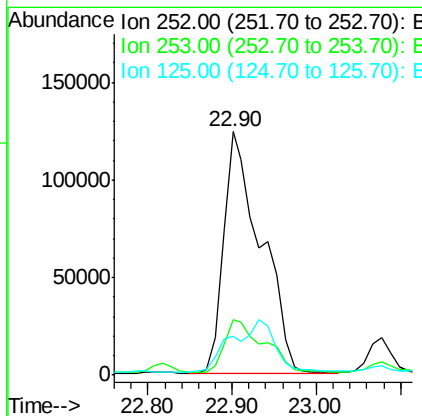
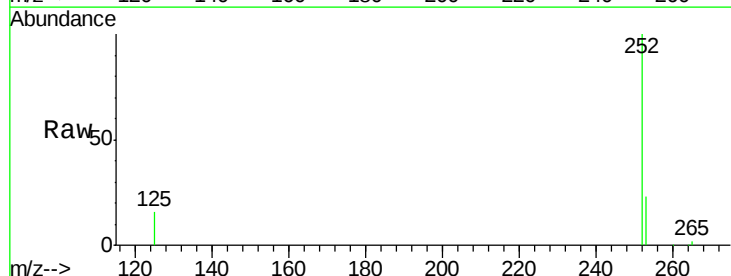
RT: 22.90 min Scan# 1464

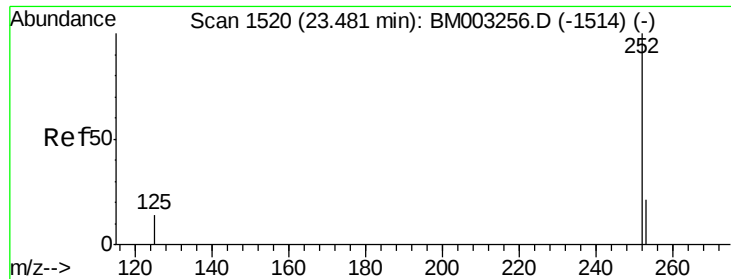
Delta R.T. -0.05 min

Lab File: BM003259.D

Acq: 21 Nov 2015 21:41

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 383195 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.6  | 19.8  | 29.8   |
| 125       | 16.2  | 10.4  | 15.6#  |





#25

Benzo(a)pyrene

Concen: 0.98 ng/ul

RT: 23.48 min Scan# 1520

Delta R.T. 0.00 min

Lab File: BM003259.D

Acq: 21 Nov 2015 21:41

Instrument :

BNA\_M

ClientSampleId :

A4J60MS

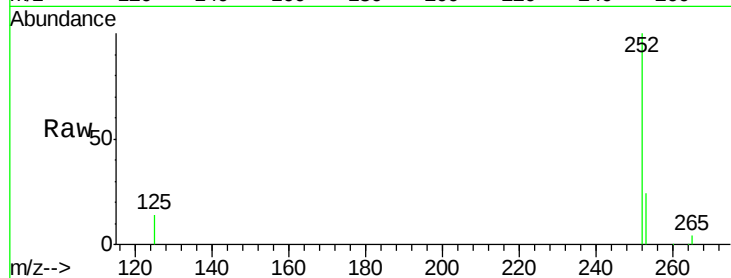
Tgt Ion:252 Resp: 189148

Ion Ratio Lower Upper

252 100

253 24.3 19.4 29.2

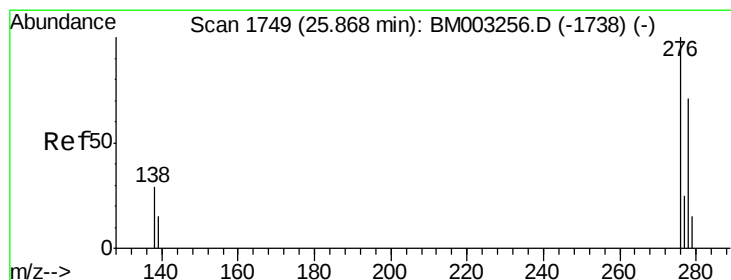
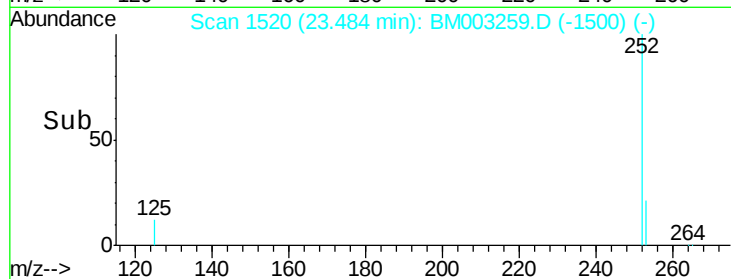
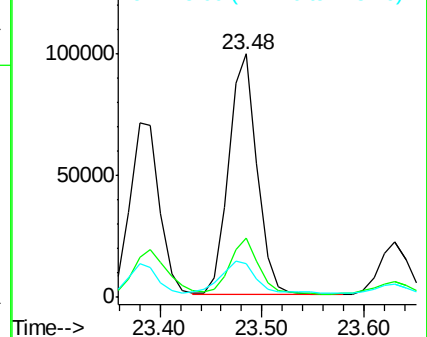
125 13.8 12.7 19.1



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



#26

Indeno(1,2,3-cd)pyrene

Concen: 0.61 ng/ul

RT: 25.86 min Scan# 1748

Delta R.T. -0.01 min

Lab File: BM003259.D

Acq: 21 Nov 2015 21:41

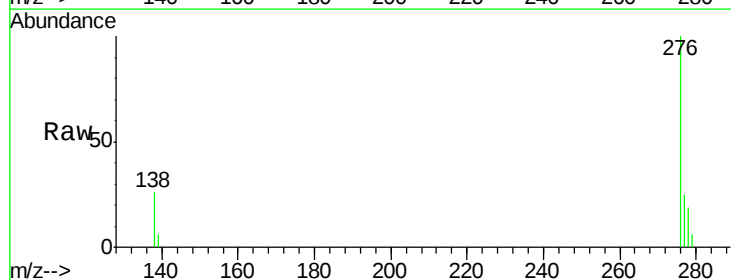
Tgt Ion:276 Resp: 139217

Ion Ratio Lower Upper

276 100

138 26.0 16.3 24.5#

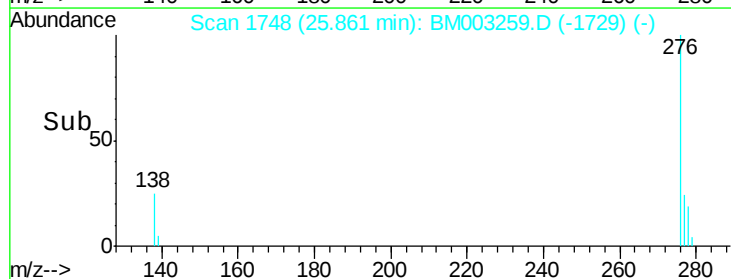
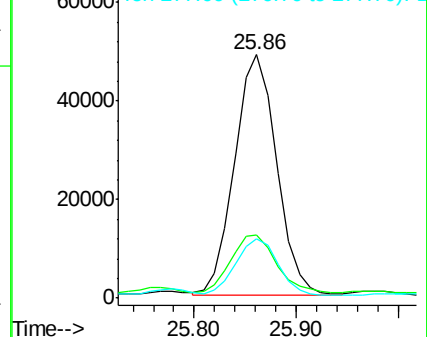
277 23.9 19.8 29.8

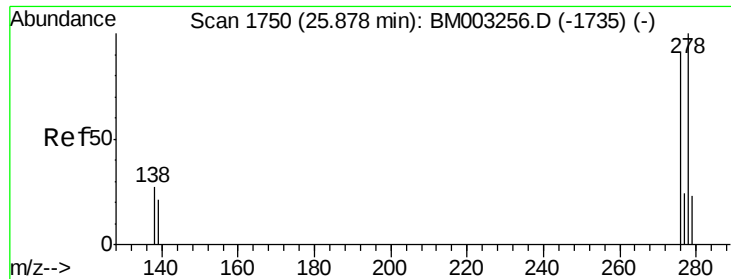


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

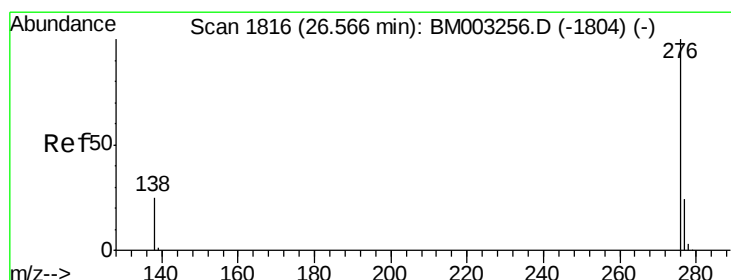
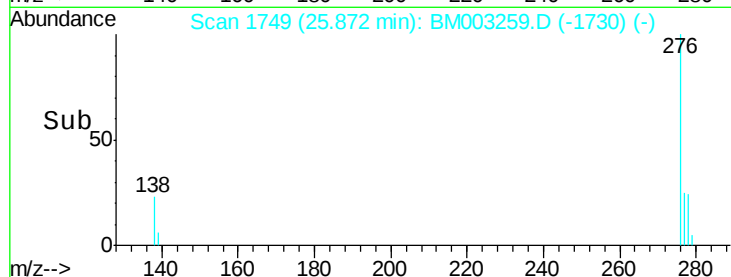
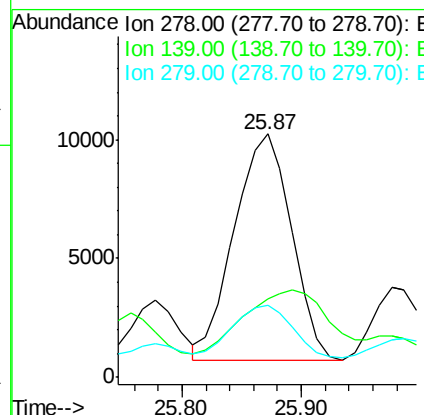
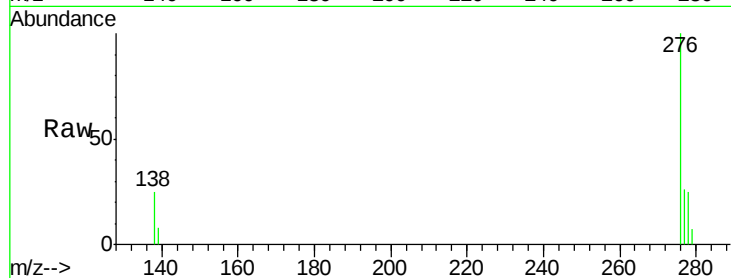




#27  
Dibenzo(a,h)anthracene  
Concen: 0.17 ng/ul  
RT: 25.87 min Scan# 1749  
Delta R.T. -0.01 min  
Lab File: BM003259.D  
Acq: 21 Nov 2015 21:41

Instrument :  
BNA\_M  
ClientSampleId :  
A4J60MS

Tgt Ion: 278 Resp: 31600  
Ion Ratio Lower Upper  
278 100  
139 32.2 16.4 24.6#  
279 29.5 20.2 30.2



#28  
Benzo(g,h,i)perylene  
Concen: 0.66 ng/ul  
RT: 26.56 min Scan# 1815  
Delta R.T. -0.01 min  
Lab File: BM003259.D  
Acq: 21 Nov 2015 21:41

Tgt Ion: 276 Resp: 132504  
Ion Ratio Lower Upper  
276 100  
277 23.9 18.9 28.3  
138 27.1 22.5 33.7

