

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM080915\  
 Data File : BM002307.D  
 Acq On : 09 Aug 2015 10:18  
 Operator : TP/UM  
 Sample : G3161-12  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9C57

Quant Time: Aug 10 05:35:56 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM080715MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Aug 10 05:35:03 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.92  | 152  | 301100   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 11.79 | 136  | 1454849  | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 15.50 | 164  | 765014   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 18.21 | 188  | 1519416  | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 22.30 | 240  | 1185274  | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 25.00 | 264  | 1050123  | 20.00 | ng/ul | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 7) Acenaphthylene-d8        | 15.20 | 160  | 2317940  | 29.25 | ng/ul | 0.00     |
| 10) Fluorene-d10            | 16.47 | 176  | 1515288  | 27.49 | ng/ul | 0.00     |
| 14) Anthracene-d10          | 18.31 | 188  | 2157045  | 29.26 | ng/ul | 0.00     |
| 18) Pyrene-d10              | 20.53 | 212  | 1976596  | 34.38 | ng/ul | 0.00     |
| 25) Benzo(a)pyrene-d12      | 24.83 | 264  | 1629860  | 29.23 | ng/ul | 0.00     |

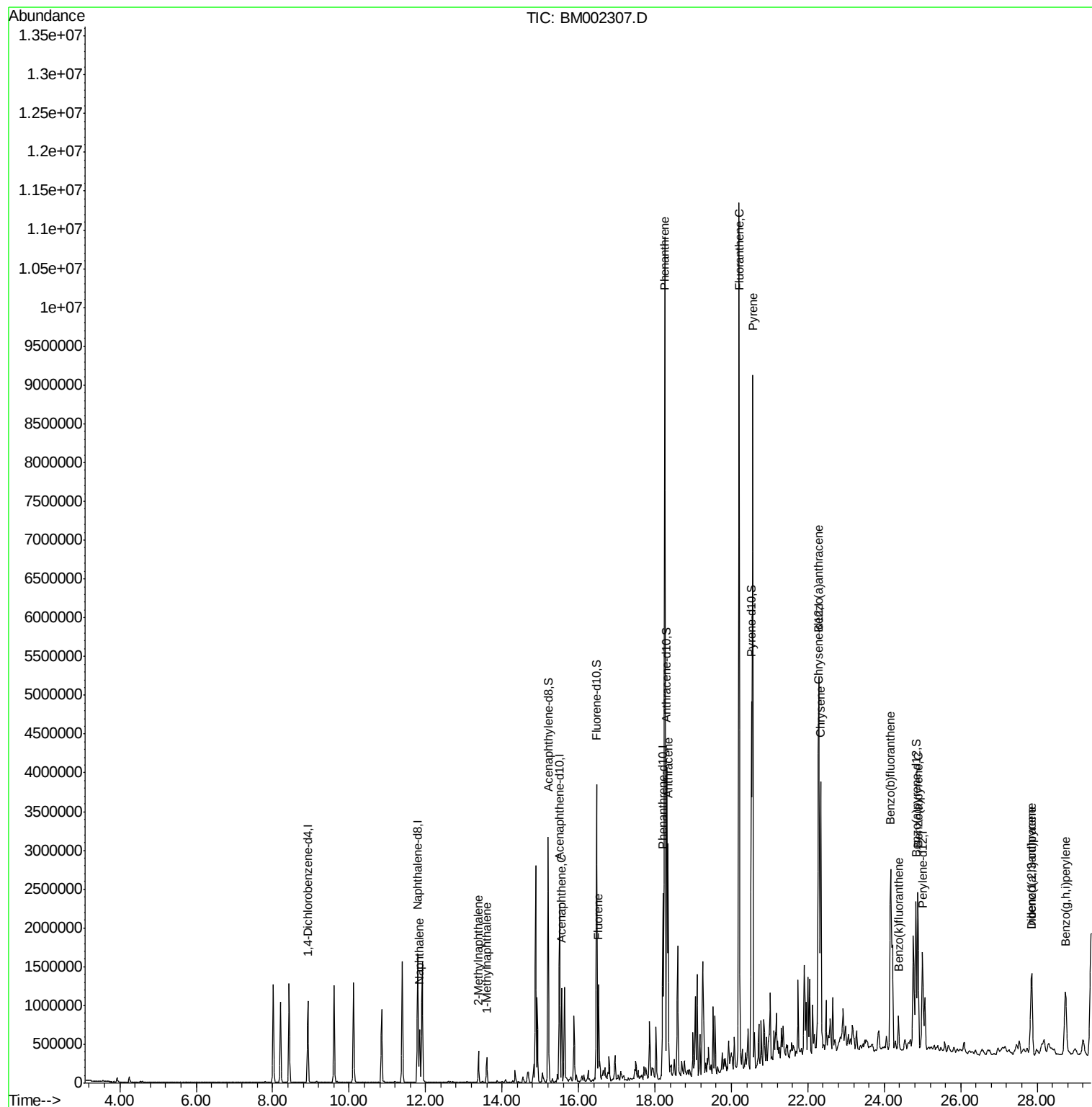
| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 3) Naphthalene             | 11.85 | 128  | 577342   | 7.54  | ng/ul  | 100    |
| 4) 2-Methylnaphthalene     | 13.39 | 142  | 196877   | 3.60  | ng/ul  | 98     |
| 5) 1-Methylnaphthalene     | 13.60 | 142  | 152456   | 2.83  | ng/ul  | 97     |
| 9) Acenaphthene            | 15.56 | 153  | 473578   | 8.56  | ng/ul  | 98     |
| 11) Fluorene               | 16.53 | 166  | 550939   | 8.84  | ng/ul  | 98     |
| 13) Phenanthrene           | 18.26 | 178  | 6902382  | 78.93 | ng/ul  | 97     |
| 15) Anthracene             | 18.34 | 178  | 1852173  | 20.51 | ng/ul  | 100    |
| 16) Fluoranthene           | 20.20 | 202  | 6920669  | 71.47 | ng/ul# | 92     |
| 19) Pyrene                 | 20.56 | 202  | 5628182  | 73.45 | ng/ul  | 96     |
| 20) Benzo(a)anthracene     | 22.28 | 228  | 2346126  | 32.43 | ng/ul  | 99     |
| 21) Chrysene               | 22.34 | 228  | 2121434  | 30.94 | ng/ul  | 97     |
| 23) Benzo(b)fluoranthene   | 24.17 | 252  | 2452462  | 37.57 | ng/ul  | 98     |
| 24) Benzo(k)fluoranthene   | 24.37 | 252  | 309707   | 4.94  | ng/ul# | 88     |
| 26) Benzo(a)pyrene         | 24.89 | 252  | 1693747  | 27.12 | ng/ul  | 97     |
| 27) Indeno(1,2,3-cd)pyrene | 27.85 | 276  | 1144512  | 15.99 | ng/ul  | 94     |
| 28) Dibenzo(a,h)anthracene | 27.86 | 278  | 275122   | 4.54  | ng/ul# | 77     |
| 29) Benzo(g,h,i)perylene   | 28.74 | 276  | 1143133  | 18.93 | ng/ul  | 98     |

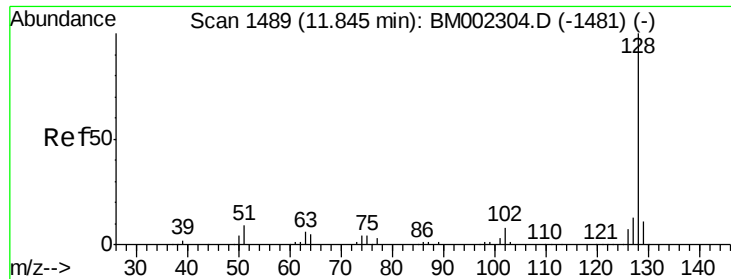
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 10 05:35:56 2015  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM080715MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Aug 10 05:35:03 2015  
Response via : Initial Calibration





#3

Naphthalene

Concen: 7.54 ng/ul

RT: 11.85 min Scan# 1489

Delta R.T. -0.00 min

Lab File: BM002307.D

Acq: 09 Aug 2015 10:18

Instrument :

BNA\_M

ClientSampleId :

D9C57

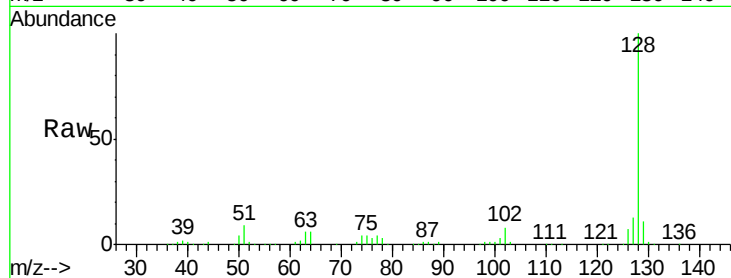
Tgt Ion:128 Resp: 577342

Ion Ratio Lower Upper

128 100

129 11.0 8.6 12.8

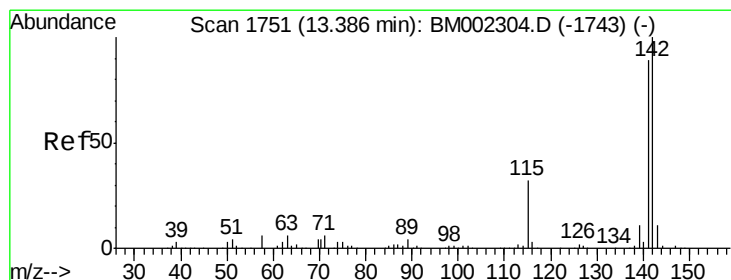
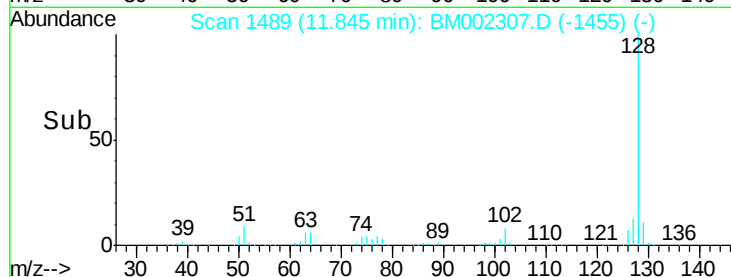
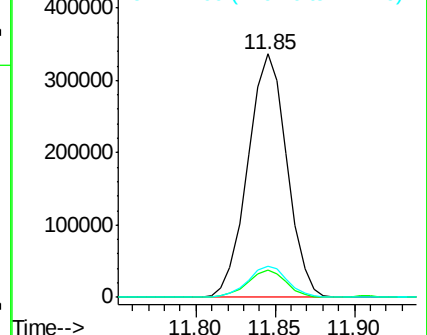
127 12.9 10.4 15.6



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



#4

2-Methylnaphthalene

Concen: 3.60 ng/ul

RT: 13.39 min Scan# 1751

Delta R.T. -0.00 min

Lab File: BM002307.D

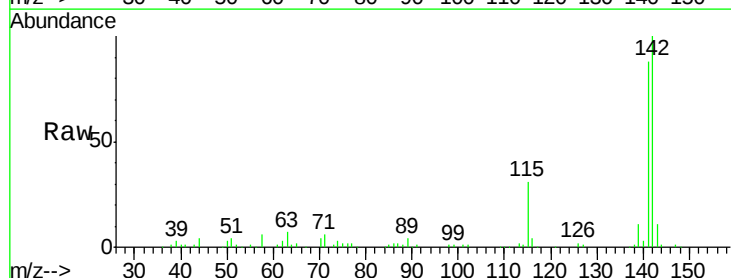
Acq: 09 Aug 2015 10:18

Tgt Ion:142 Resp: 196877

Ion Ratio Lower Upper

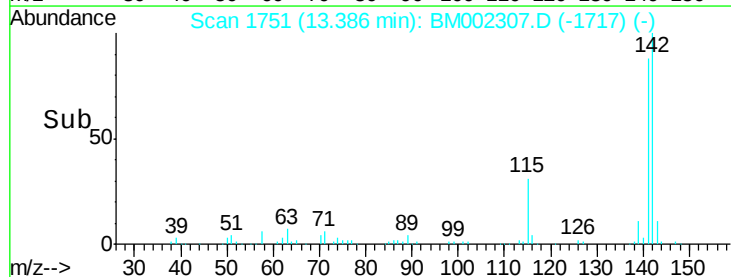
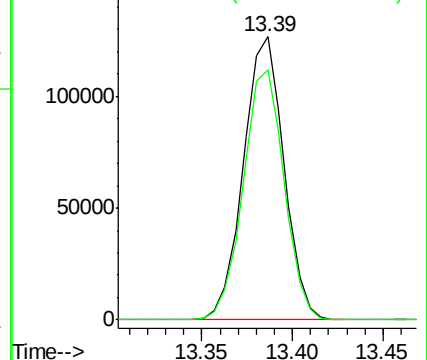
142 100

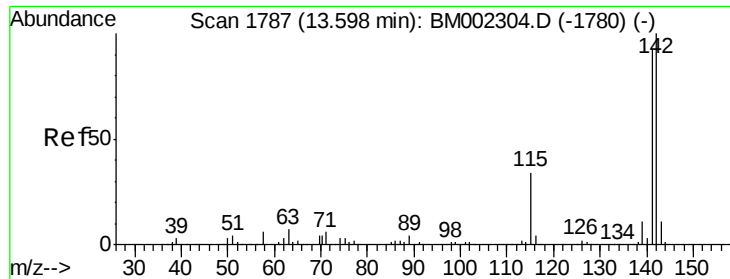
141 88.4 72.5 108.7



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#5

1-Methylnaphthalene

Concen: 2.83 ng/ul

RT: 13.60 min Scan# 1787

Delta R.T. -0.00 min

Lab File: BM002307.D

Acq: 09 Aug 2015 10:18

Instrument :

BNA\_M

ClientSampleId :

D9C57

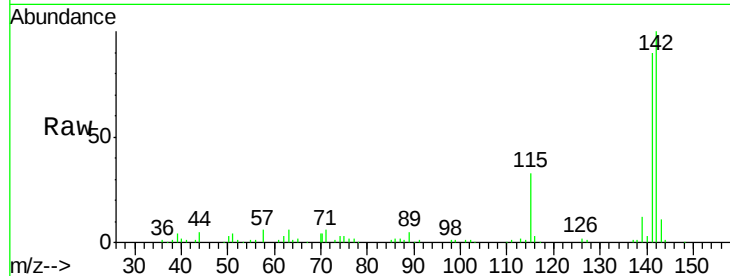
Tgt Ion:142 Resp: 152456

Ion Ratio Lower Upper

142 100

141 90.0 74.5 111.7

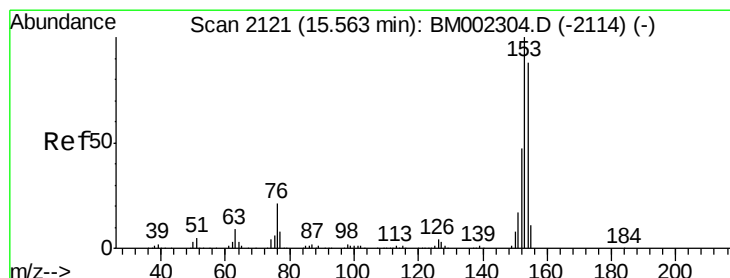
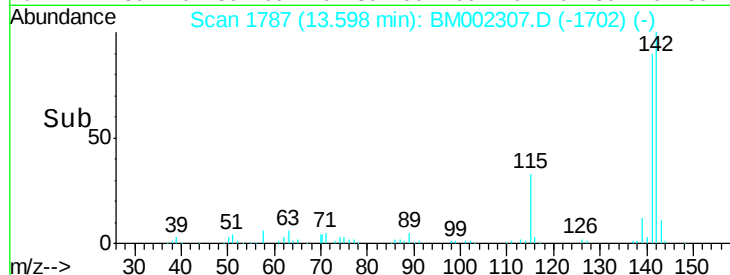
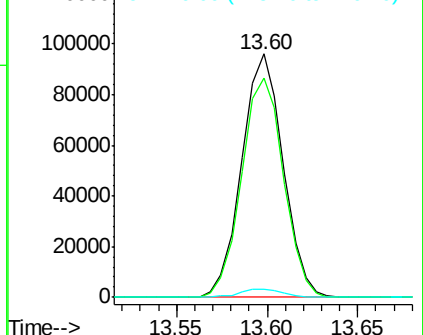
116 3.4 3.0 4.4



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



#9

Acenaphthene

Concen: 8.56 ng/ul

RT: 15.56 min Scan# 2121

Delta R.T. -0.00 min

Lab File: BM002307.D

Acq: 09 Aug 2015 10:18

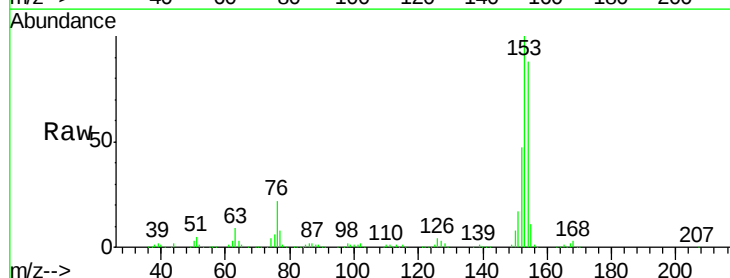
Tgt Ion:153 Resp: 473578

Ion Ratio Lower Upper

153 100

152 47.3 36.6 55.0

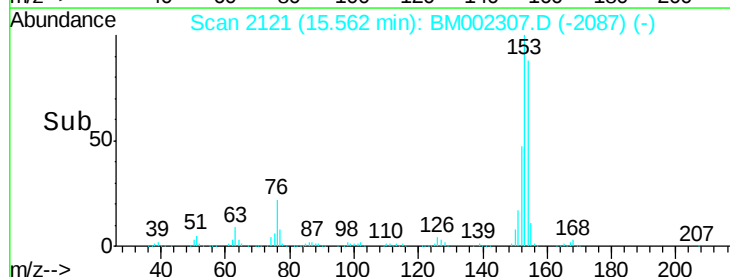
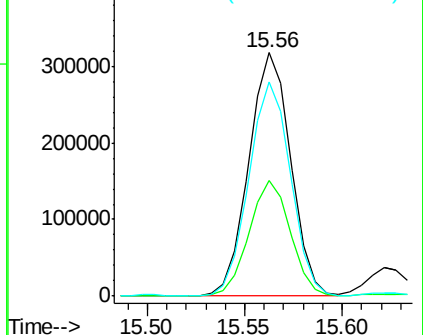
154 88.1 71.5 107.3

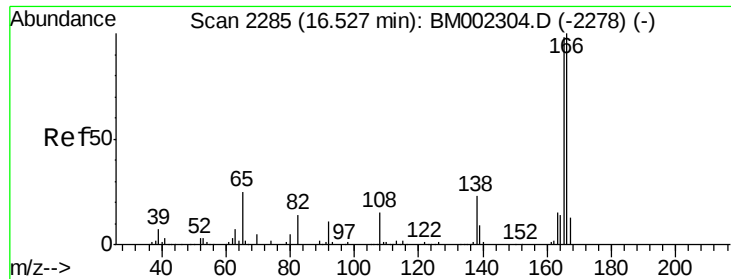


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#11

Fluorene

Concen: 8.84 ng/ul

RT: 16.53 min Scan# 2285

Delta R.T. -0.00 min

Lab File: BM002307.D

Acq: 09 Aug 2015 10:18

Instrument :

BNA\_M

ClientSampleId :

D9C57

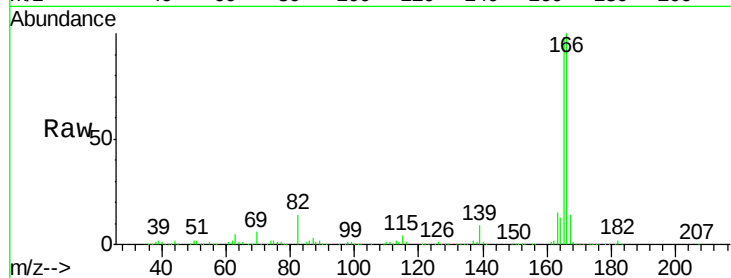
Tgt Ion:166 Resp: 550939

Ion Ratio Lower Upper

166 100

165 98.5 77.5 116.3

167 14.1 10.4 15.6

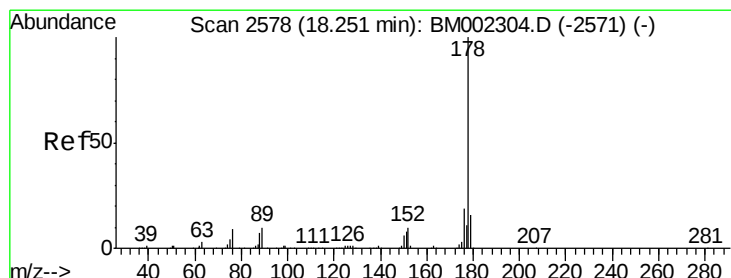
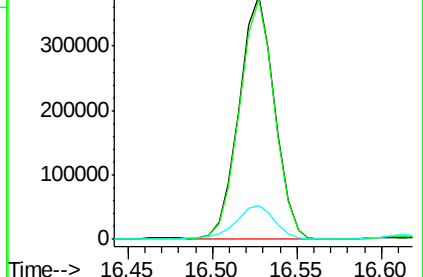
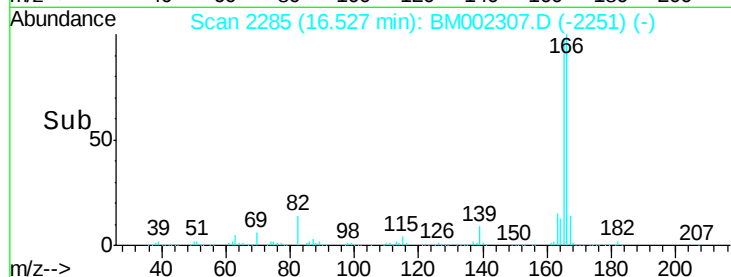


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

16.53



#13

Phenanthrene

Concen: 78.93 ng/ul

RT: 18.26 min Scan# 2580

Delta R.T. 0.01 min

Lab File: BM002307.D

Acq: 09 Aug 2015 10:18

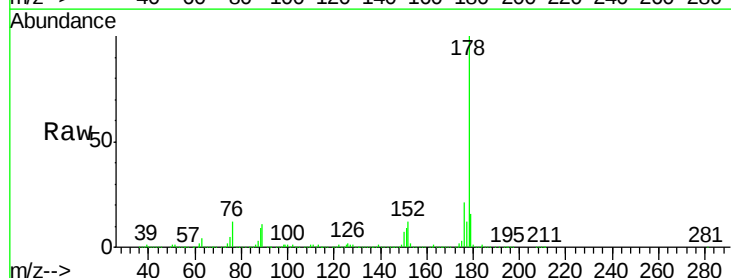
Tgt Ion:178 Resp: 6902382

Ion Ratio Lower Upper

178 100

179 16.4 12.3 18.5

176 20.8 15.3 22.9

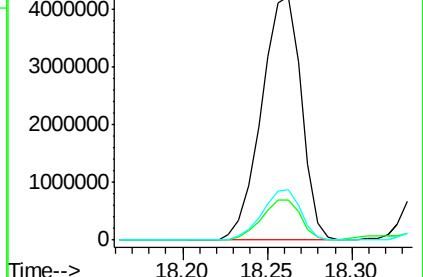
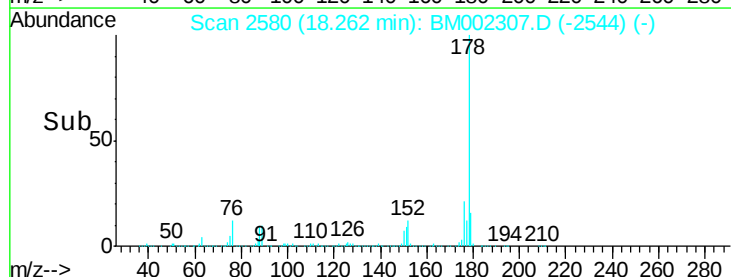


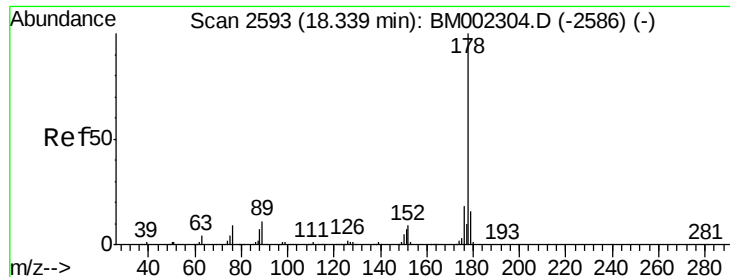
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

18.26

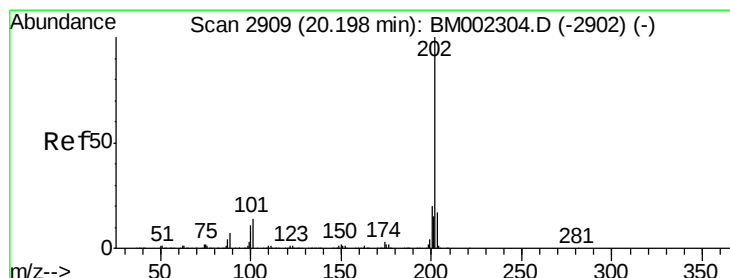
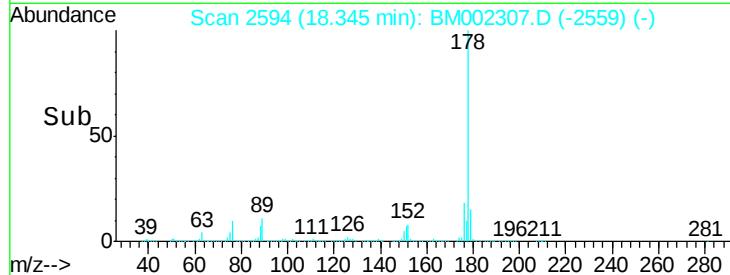
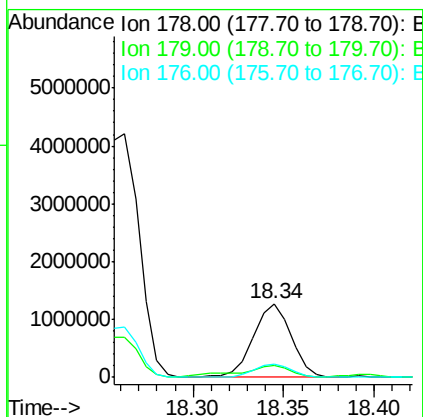
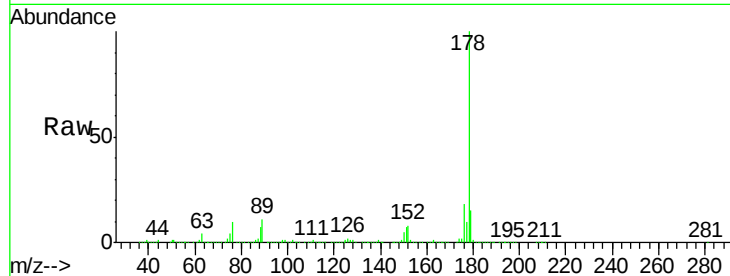




#15  
 Anthracene  
 Concen: 20.51 ng/ul  
 RT: 18.34 min Scan# 2594  
 Delta R.T. 0.01 min  
 Lab File: BM002307.D  
 Acq: 09 Aug 2015 10:18

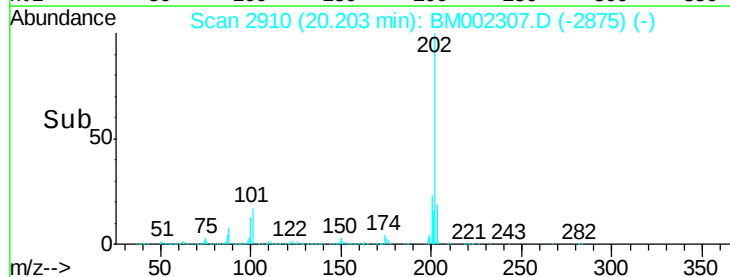
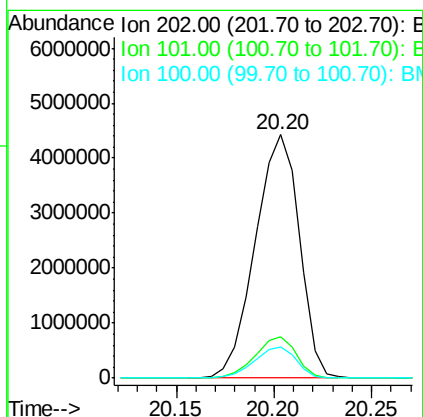
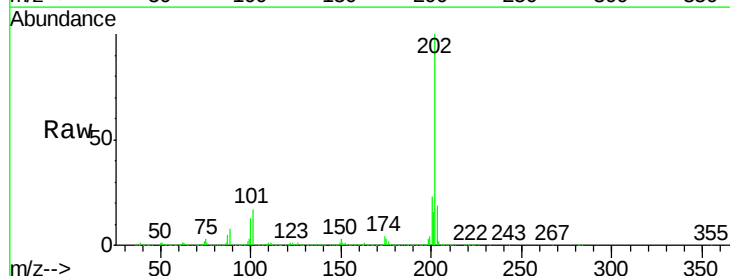
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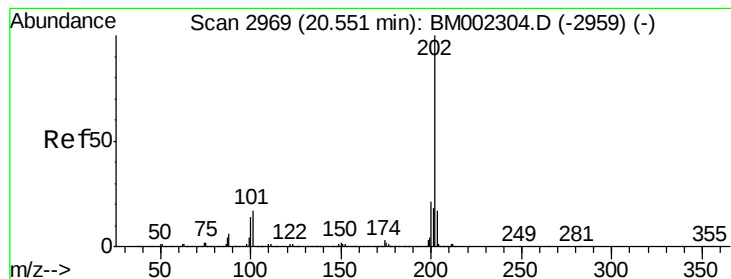
Tgt Ion:178 Resp: 1852173  
 Ion Ratio Lower Upper  
 178 100  
 179 15.5 12.3 18.5  
 176 18.4 14.5 21.7



#16  
 Fluoranthene  
 Concen: 71.47 ng/ul  
 RT: 20.20 min Scan# 2910  
 Delta R.T. 0.01 min  
 Lab File: BM002307.D  
 Acq: 09 Aug 2015 10:18

Tgt Ion:202 Resp: 6920669  
 Ion Ratio Lower Upper  
 202 100  
 101 16.8 10.6 15.8#  
 100 12.9 8.2 12.4#





#19

Pyrene

Concen: 73.45 ng/ul

RT: 20.56 min Scan# 2971

Delta R.T. 0.01 min

Lab File: BM002307.D

Acq: 09 Aug 2015 10:18

Instrument :

BNA\_M

ClientSampleId :

D9C57

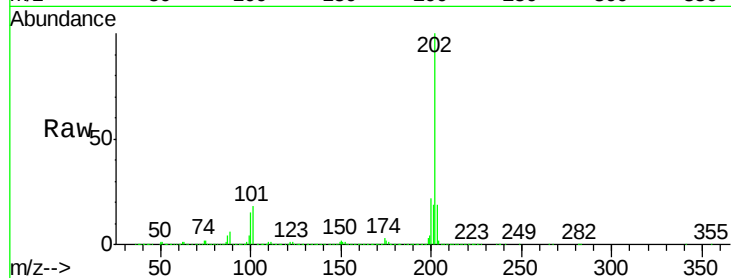
Tgt Ion:202 Resp: 5628182

Ion Ratio Lower Upper

202 100

101 18.0 13.0 19.6

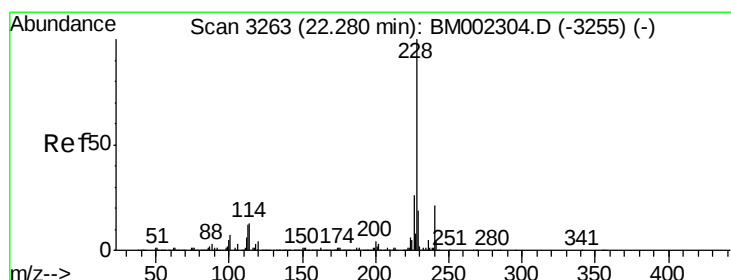
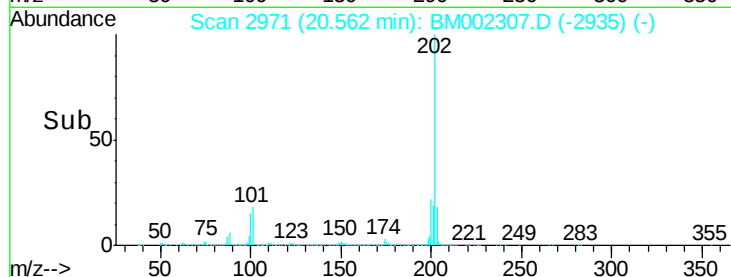
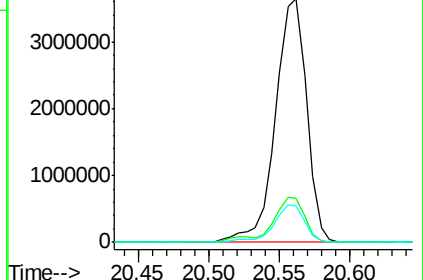
100 14.9 11.0 16.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#20

Benzo(a)anthracene

Concen: 32.43 ng/ul

RT: 22.28 min Scan# 3263

Delta R.T. -0.00 min

Lab File: BM002307.D

Acq: 09 Aug 2015 10:18

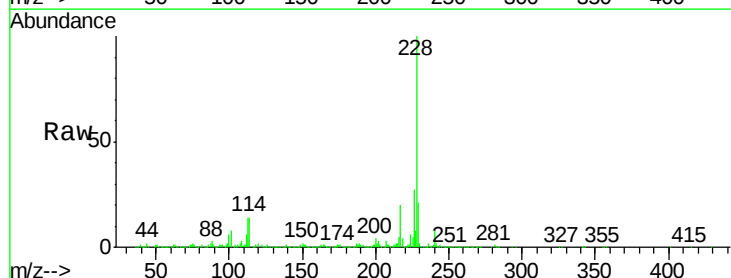
Tgt Ion:228 Resp: 2346126

Ion Ratio Lower Upper

228 100

229 20.6 15.7 23.5

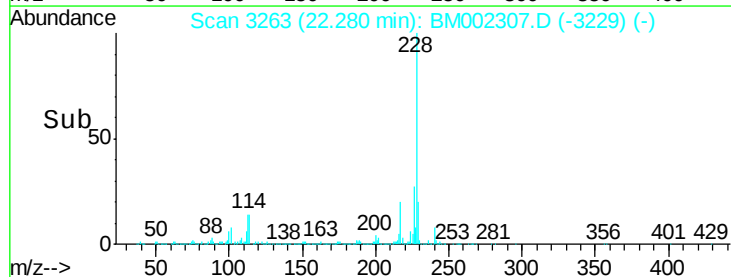
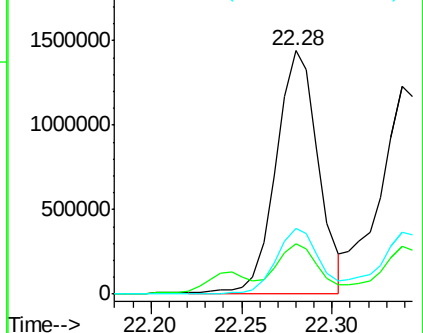
226 27.1 21.4 32.0

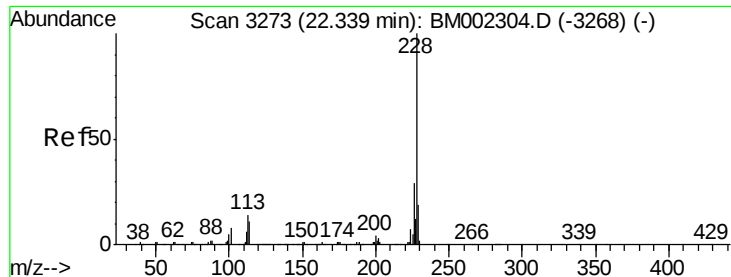


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#21

Chrysene

Concen: 30.94 ng/ul

RT: 22.34 min Scan# 3273

Delta R.T. -0.00 min

Lab File: BM002307.D

Acq: 09 Aug 2015 10:18

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D9C57

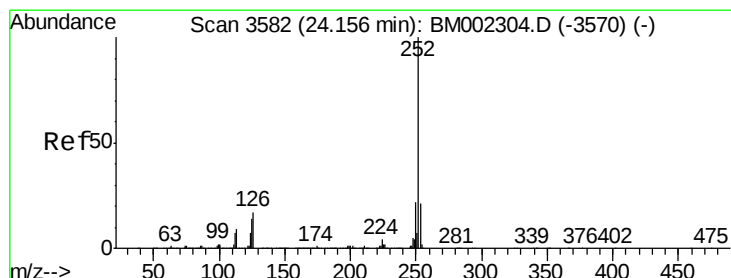
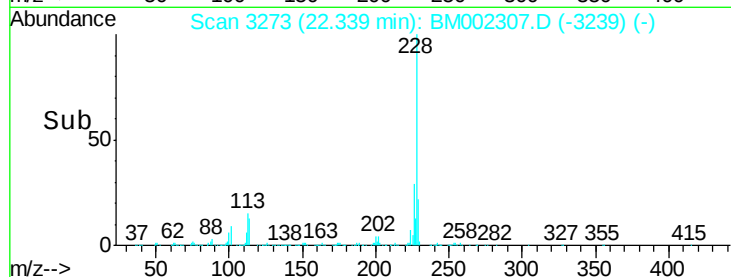
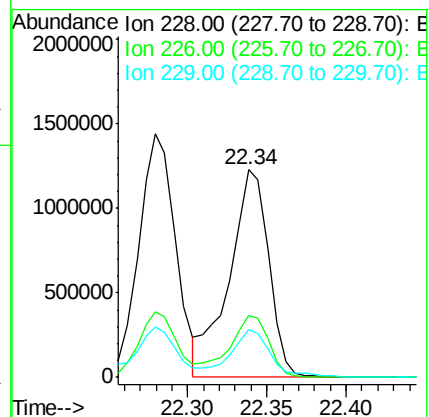
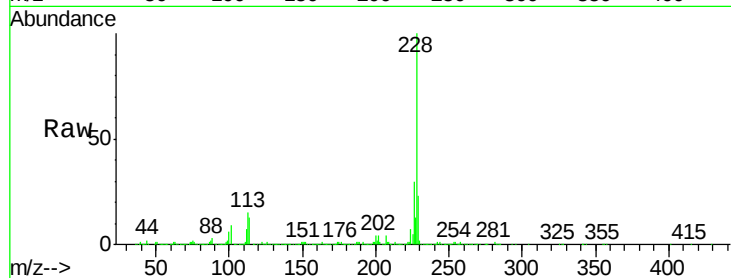
Tgt Ion:228 Resp: 2121434

Ion Ratio Lower Upper

228 100

226 29.5 23.4 35.0

229 22.8 15.5 23.3



#23

Benzo(b)fluoranthene

Concen: 37.57 ng/ul

RT: 24.17 min Scan# 3584

Delta R.T. 0.01 min

Lab File: BM002307.D

Acq: 09 Aug 2015 10:18

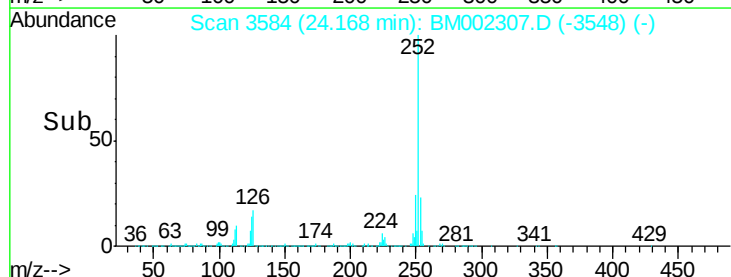
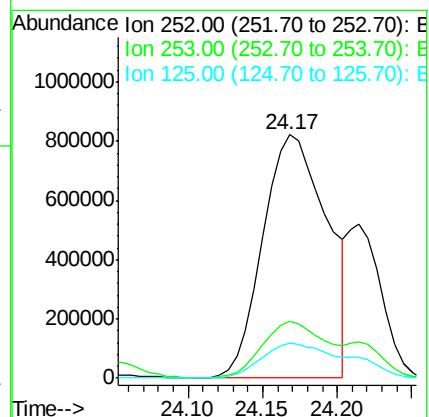
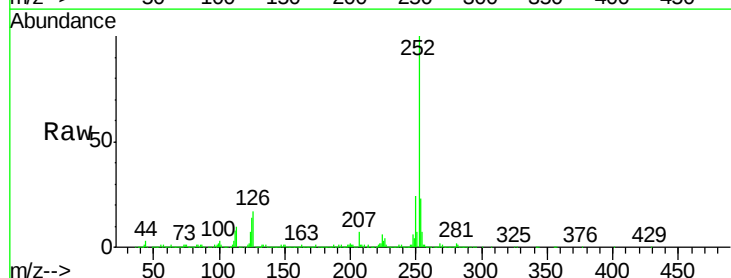
Tgt Ion:252 Resp: 2452462

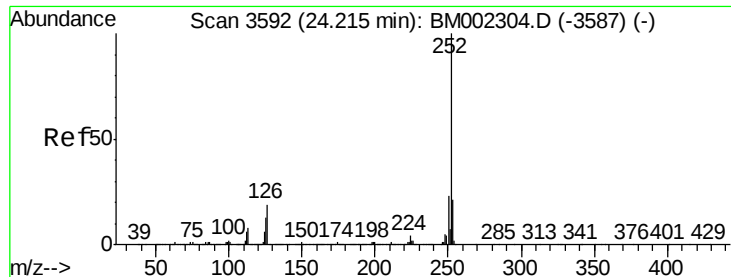
Ion Ratio Lower Upper

252 100

253 23.0 17.9 26.9

125 14.4 10.3 15.5

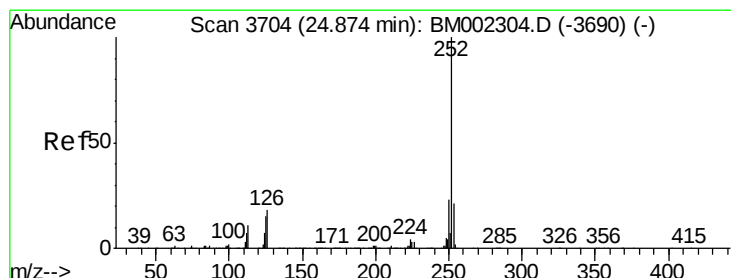
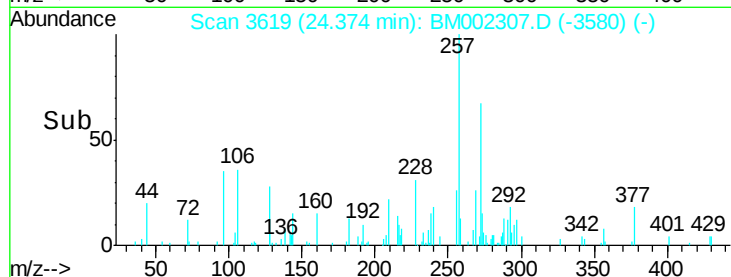
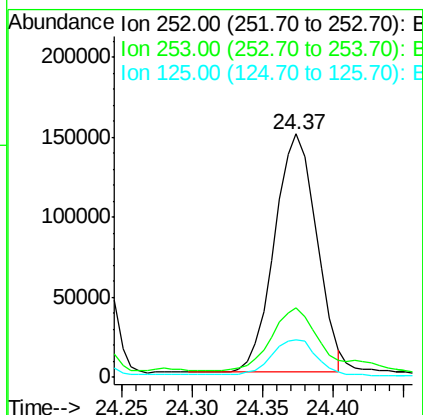
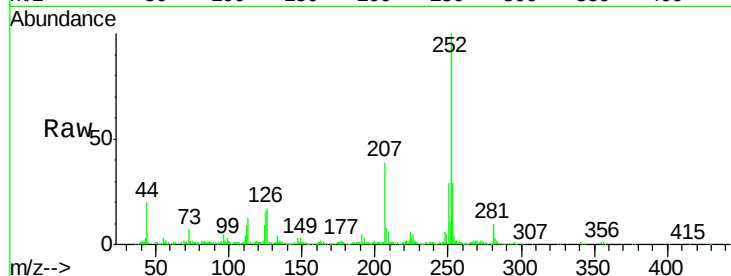




#24  
Benzo(k)fluoranthene  
Concen: 4.94 ng/ul  
RT: 24.37 min Scan# 3619  
Delta R.T. 0.16 min  
Lab File: BM002307.D  
Acq: 09 Aug 2015 10:18

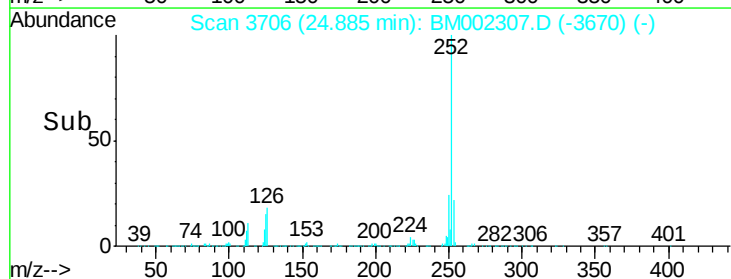
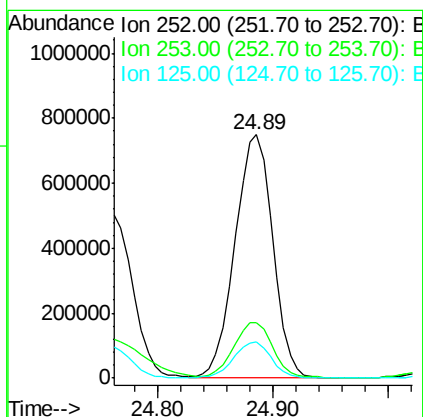
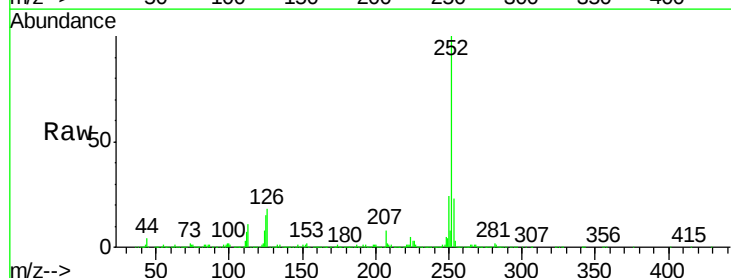
Instrument :  
BNA\_M  
ClientSampleId :  
D9C57

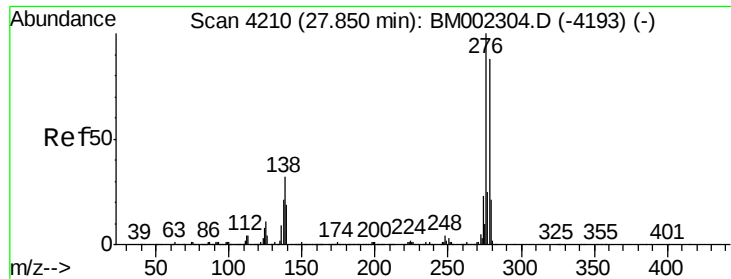
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 28.6  | 17.3  | 25.9  |
| 125     | 15.6  | 10.2  | 15.4  |



#26  
Benzo(a)pyrene  
Concen: 27.12 ng/ul  
RT: 24.89 min Scan# 3706  
Delta R.T. 0.01 min  
Lab File: BM002307.D  
Acq: 09 Aug 2015 10:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 17.3  | 25.9  |
| 125     | 14.8  | 11.0  | 16.6  |

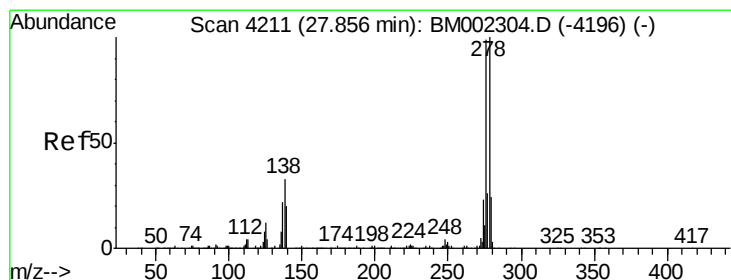
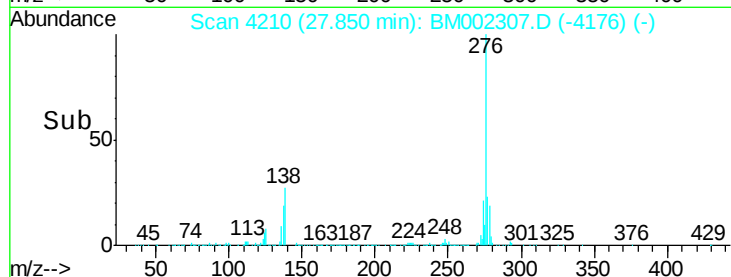
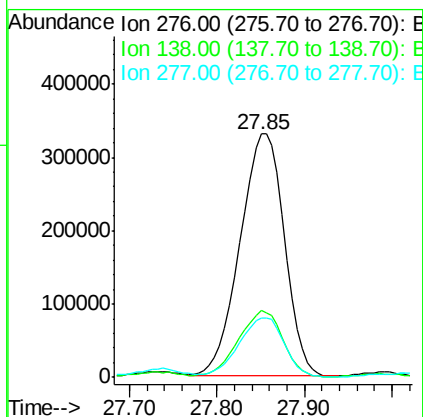
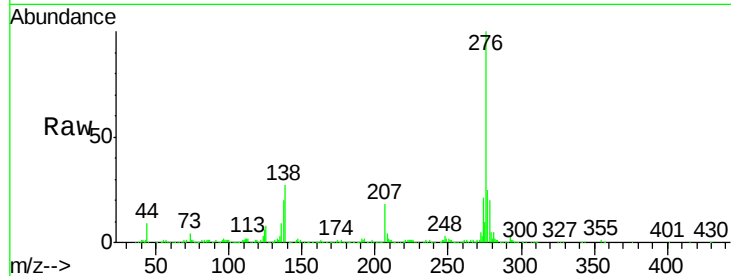




#27  
 Indeno(1,2,3-cd)pyrene  
 Concen: 15.99 ng/ul  
 RT: 27.85 min Scan# 4210  
 Delta R.T. -0.00 min  
 Lab File: BM002307.D  
 Acq: 09 Aug 2015 10:18

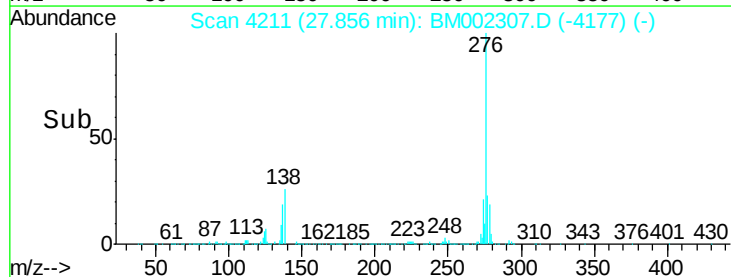
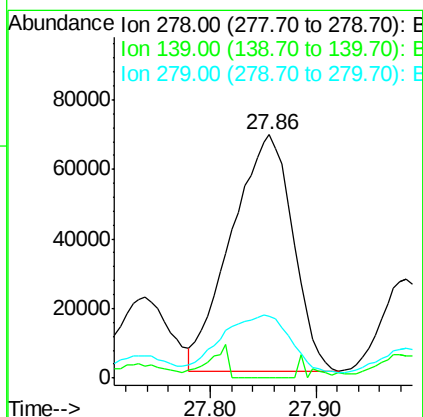
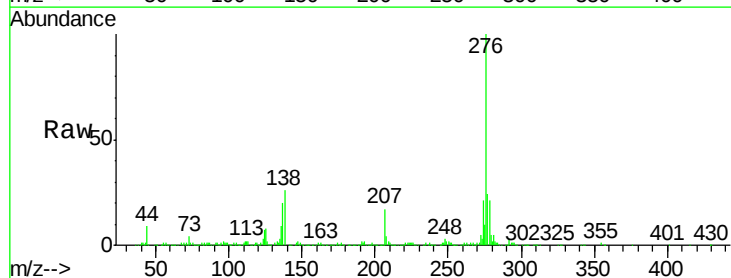
Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9C57

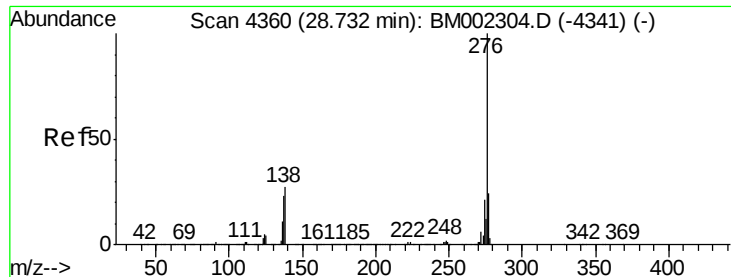
Tgt Ion:276 Resp: 1144512  
 Ion Ratio Lower Upper  
 276 100  
 138 27.3 25.6 38.4  
 277 24.6 21.0 31.4



#28  
 Dibenzo(a,h)anthracene  
 Concen: 4.54 ng/ul  
 RT: 27.86 min Scan# 4211  
 Delta R.T. -0.00 min  
 Lab File: BM002307.D  
 Acq: 09 Aug 2015 10:18

Tgt Ion:278 Resp: 275122  
 Ion Ratio Lower Upper  
 278 100  
 139 0.0 16.4 24.6#  
 279 25.7 18.8 28.2





#29

Benzo(g,h,i)perylene

Concen: 18.93 ng/ul

RT: 28.74 min Scan# 4362

Delta R.T. 0.01 min

Lab File: BM002307.D

Acq: 09 Aug 2015 10:18

Instrument :

BNA\_M

ClientSampleId :

D9C57

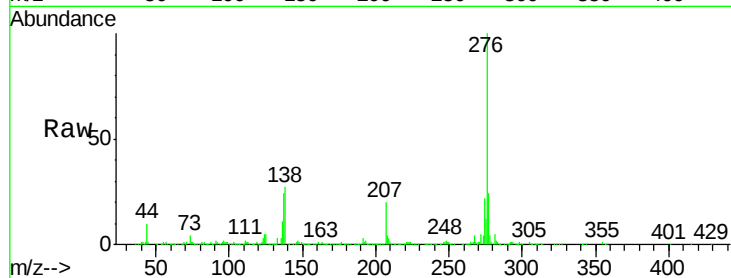
Tgt Ion:276 Resp: 1143133

Ion Ratio Lower Upper

276 100

138 26.7 20.5 30.7

277 24.5 19.0 28.6



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

