

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM081415\  
 Data File : BM002421.D  
 Acq On : 15 Aug 2015 12:56  
 Operator : UM/IZ  
 Sample : G3219-19  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9DB0

Quant Time: Aug 17 02:57:10 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM081415MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Aug 17 02:54:04 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.87  | 152  | 170250   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 11.74 | 136  | 783121   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 15.45 | 164  | 412587   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 18.16 | 188  | 825343   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 22.23 | 240  | 598319   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.89 | 264  | 499637   | 20.00 | ng/ul | 0.01     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 7) Acenaphthylene-d8        | 15.16 | 160  | 617052   | 14.63 | ng/ul | 0.00     |
| 10) Fluorene-d10            | 16.42 | 176  | 411020   | 13.87 | ng/ul | 0.00     |
| 14) Anthracene-d10          | 18.25 | 188  | 567892   | 14.26 | ng/ul | 0.00     |
| 18) Pyrene-d10              | 20.47 | 212  | 516512   | 19.48 | ng/ul | 0.00     |
| 25) Benzo(a)pyrene-d12      | 24.72 | 264  | 359829   | 13.71 | ng/ul | 0.01     |

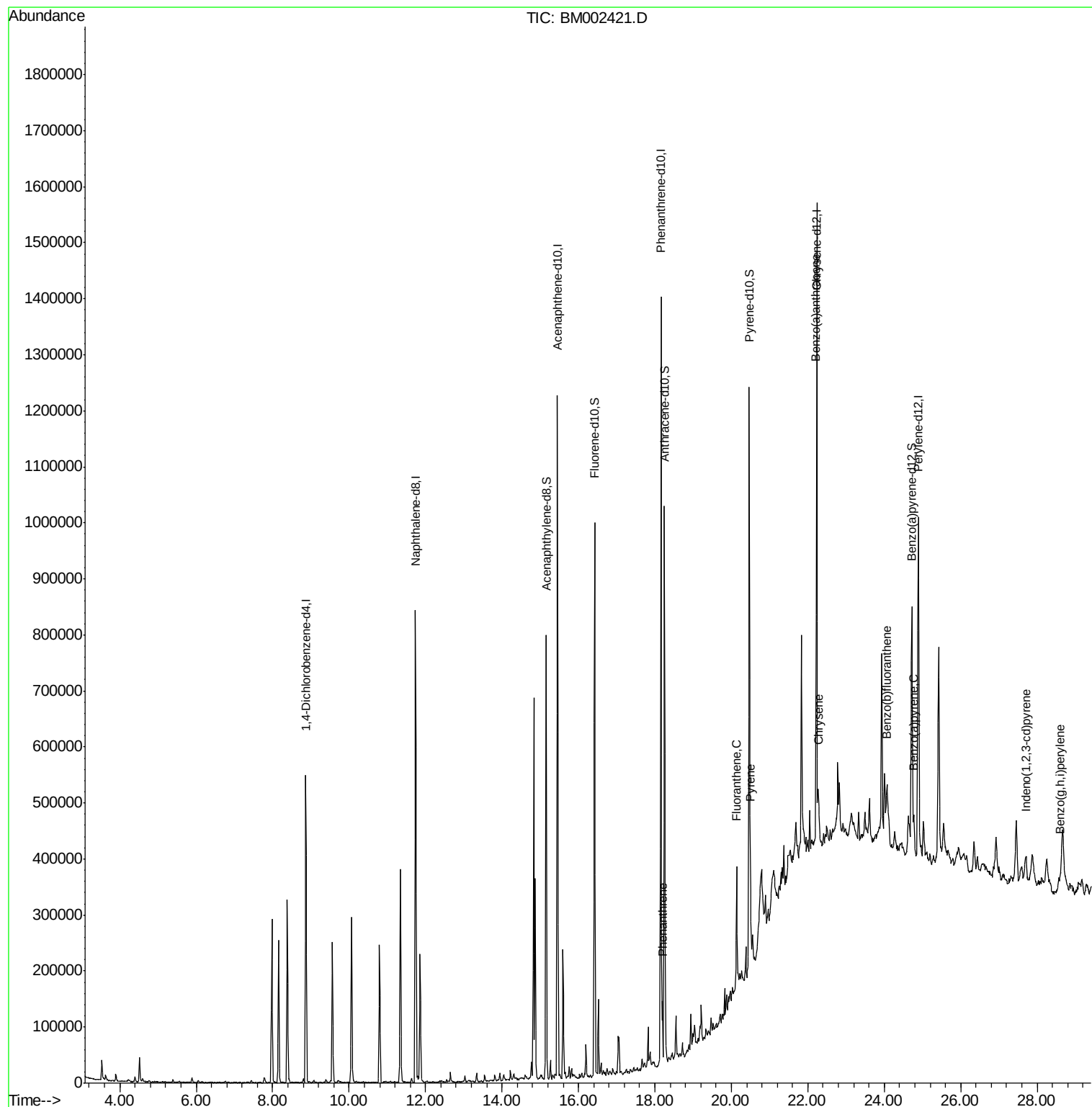
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 13) Phenanthrene           | 18.20 | 178  | 68278    | 1.43 | ng/ul  | 98     |
| 16) Fluoranthene           | 20.14 | 202  | 123079   | 2.28 | ng/ul  | 99     |
| 19) Pyrene                 | 20.50 | 202  | 101236   | 2.89 | ng/ul  | 99     |
| 20) Benzo(a)anthracene     | 22.22 | 228  | 53181    | 1.49 | ng/ul# | 92     |
| 21) Chrysene               | 22.27 | 228  | 62562    | 1.87 | ng/ul# | 94     |
| 23) Benzo(b)fluoranthene   | 24.07 | 252  | 82279    | 2.72 | ng/ul# | 91     |
| 26) Benzo(a)pyrene         | 24.77 | 252  | 49063    | 1.70 | ng/ul# | 92     |
| 27) Indeno(1,2,3-cd)pyrene | 27.70 | 276  | 40191    | 1.21 | ng/ul  | 98     |
| 29) Benzo(g,h,i)perylene   | 28.59 | 276  | 38449    | 1.39 | ng/ul# | 91     |

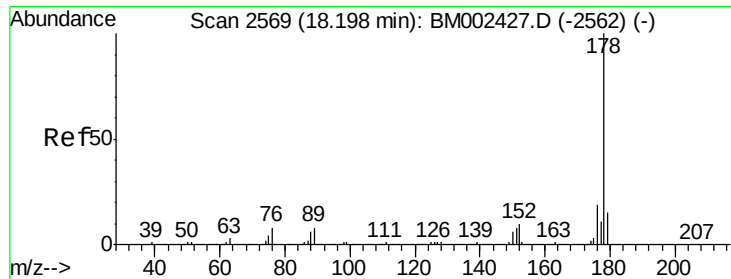
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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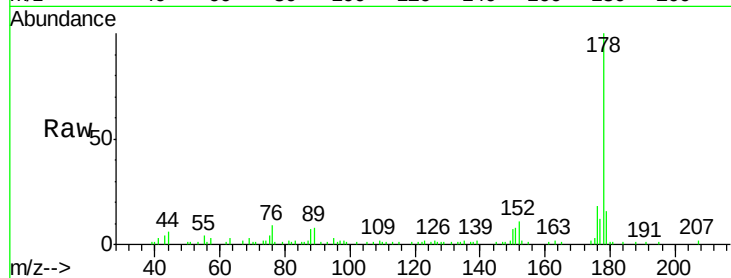




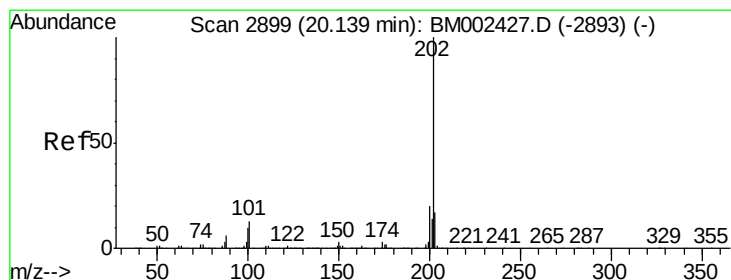
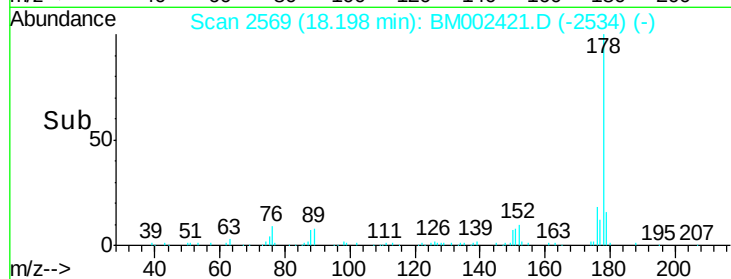
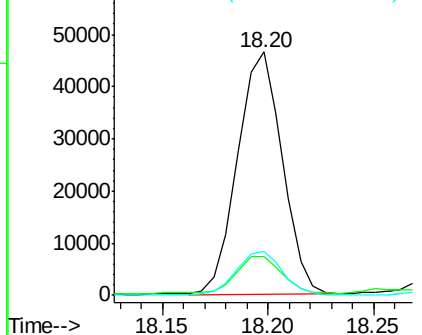
#13  
Phenanthrene  
Concen: 1.43 ng/ul  
RT: 18.20 min Scan# 2569  
Delta R.T. 0.01 min  
Lab File: BM002421.D  
Acq: 15 Aug 2015 12:56

Instrument :  
BNA\_M  
ClientSampleId :  
D9DB0

Tgt Ion:178 Resp: 68278  
Ion Ratio Lower Upper  
178 100  
179 16.0 12.4 18.6  
176 18.0 15.1 22.7

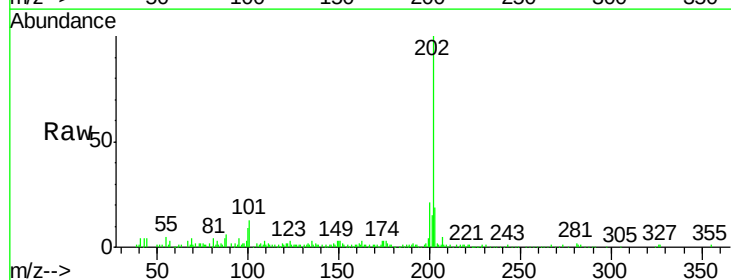


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E

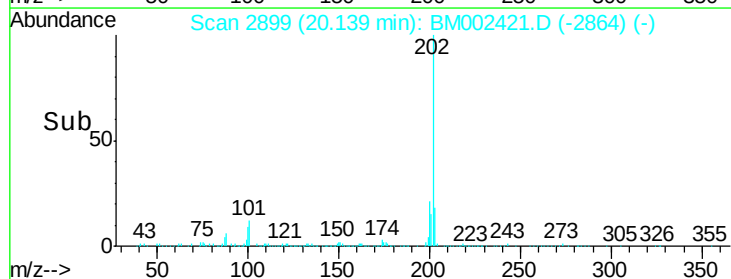
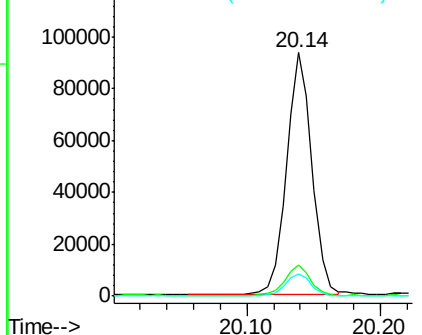


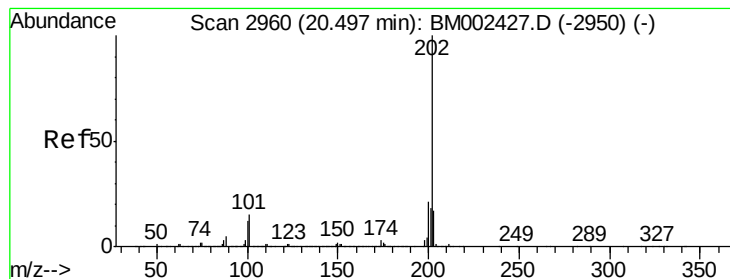
#16  
Fluoranthene  
Concen: 2.28 ng/ul  
RT: 20.14 min Scan# 2899  
Delta R.T. 0.01 min  
Lab File: BM002421.D  
Acq: 15 Aug 2015 12:56

Tgt Ion:202 Resp: 123079  
Ion Ratio Lower Upper  
202 100  
101 12.7 9.7 14.5  
100 9.3 7.4 11.2



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





#19

Pyrene

Concen: 2.89 ng/ul

RT: 20.50 min Scan# 2960

Delta R.T. 0.01 min

Lab File: BM002421.D

Acq: 15 Aug 2015 12:56

Instrument :

BNA\_M

ClientSampleId :

D9DB0

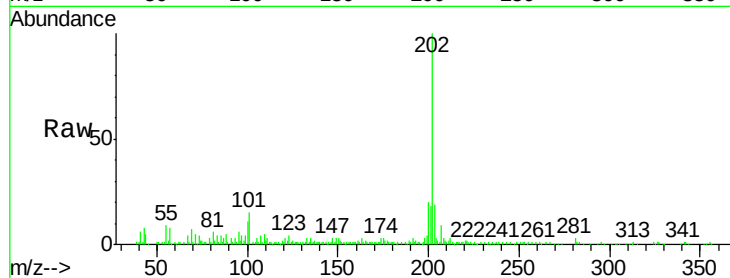
Tgt Ion:202 Resp: 101236

Ion Ratio Lower Upper

202 100

101 14.7 12.0 18.0

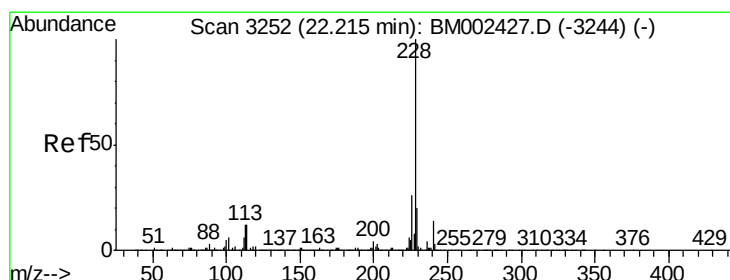
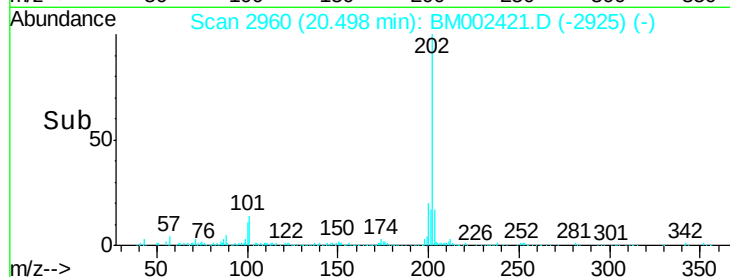
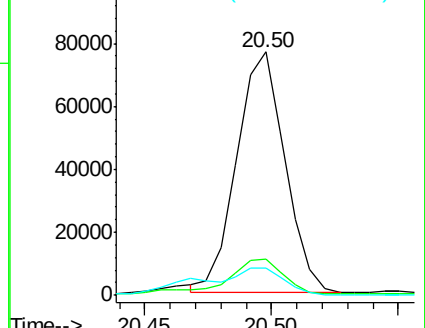
100 11.4 9.7 14.5



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): E



#20

Benzo(a)anthracene

Concen: 1.49 ng/ul

RT: 22.22 min Scan# 3252

Delta R.T. 0.01 min

Lab File: BM002421.D

Acq: 15 Aug 2015 12:56

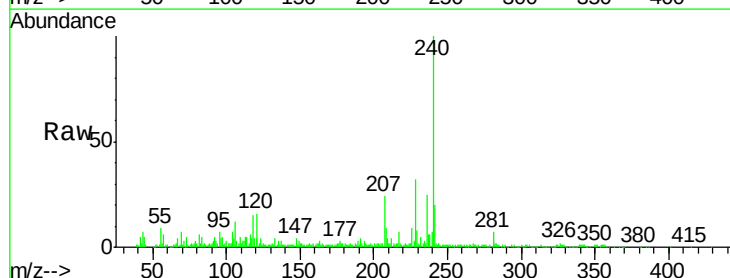
Tgt Ion:228 Resp: 53181

Ion Ratio Lower Upper

228 100

229 24.9 15.8 23.6#

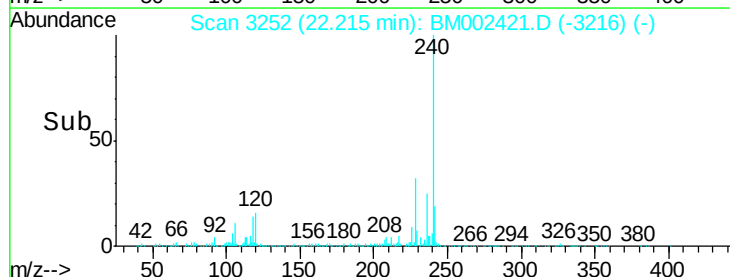
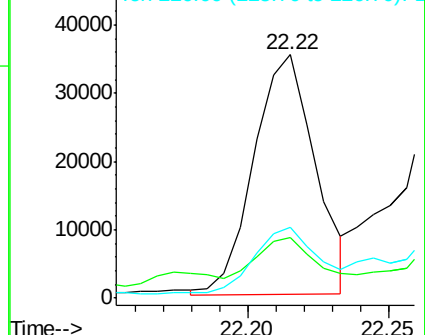
226 29.1 21.1 31.7

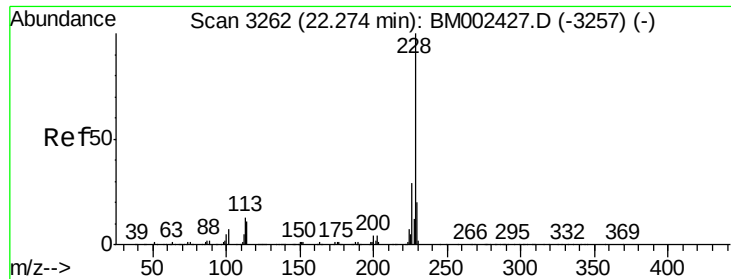


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#21

Chrysene

Concen: 1.87 ng/ul

RT: 22.27 min Scan# 3261

Delta R.T. 0.01 min

Lab File: BM002421.D

Acq: 15 Aug 2015 12:56

Instrument :

BNA\_M

ClientSampleId :

D9DB0

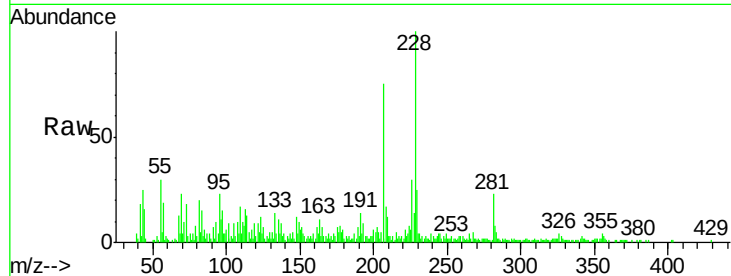
Tgt Ion:228 Resp: 62562

Ion Ratio Lower Upper

228 100

226 29.6 23.4 35.2

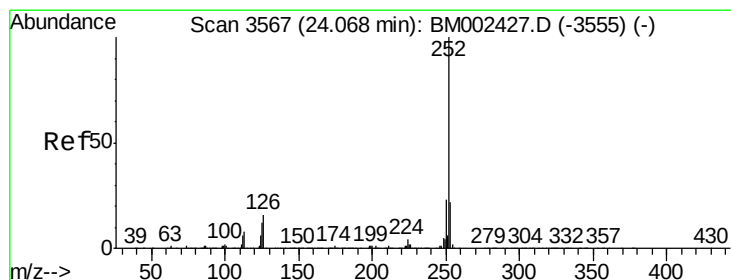
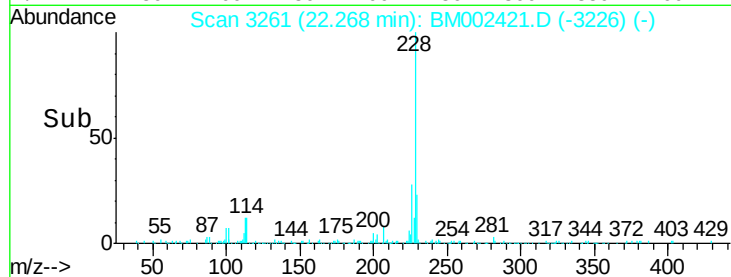
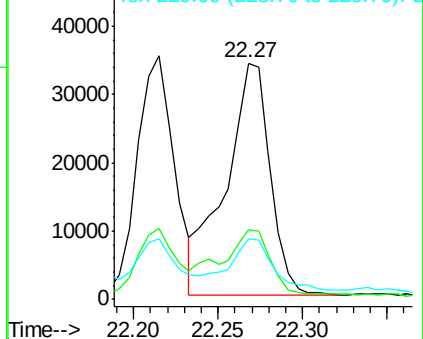
229 25.5 15.7 23.5#



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



#23

Benzo(b)fluoranthene

Concen: 2.72 ng/ul

RT: 24.07 min Scan# 3567

Delta R.T. 0.01 min

Lab File: BM002421.D

Acq: 15 Aug 2015 12:56

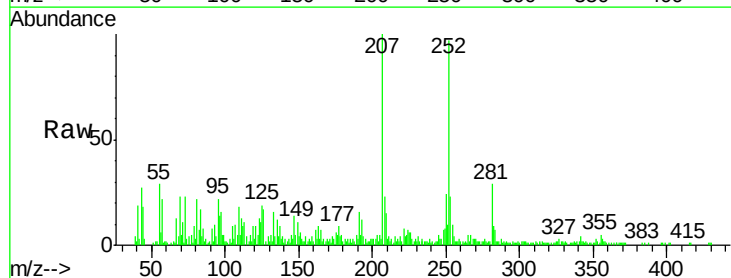
Tgt Ion:252 Resp: 82279

Ion Ratio Lower Upper

252 100

253 23.3 17.4 26.0

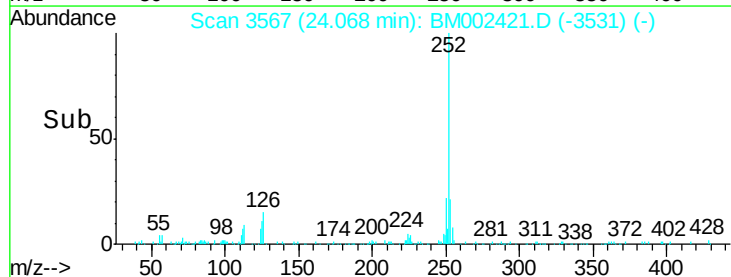
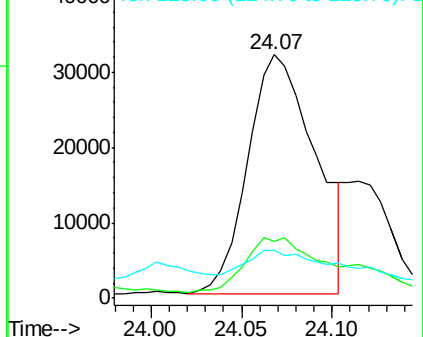
125 19.4 10.0 15.0#

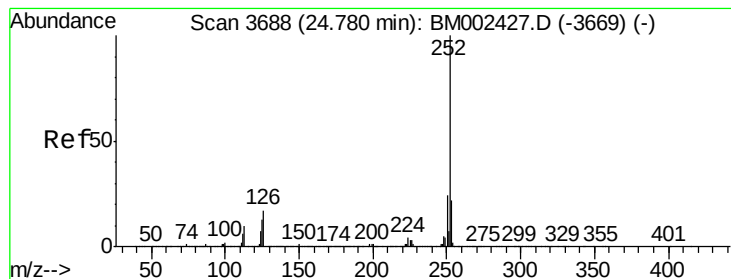


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#26

Benzo(a)pyrene

Concen: 1.70 ng/ul

RT: 24.77 min Scan# 3687

Delta R.T. 0.01 min

Lab File: BM002421.D

Acq: 15 Aug 2015 12:56

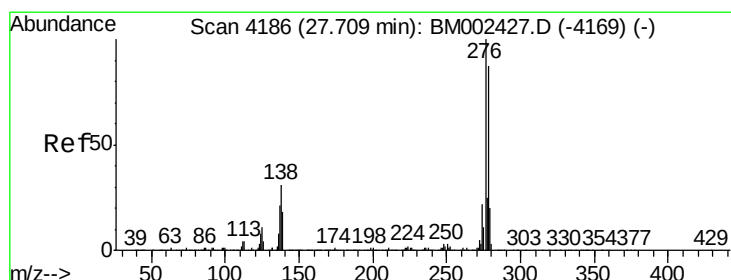
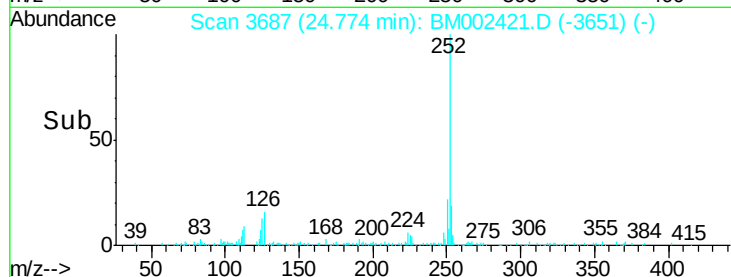
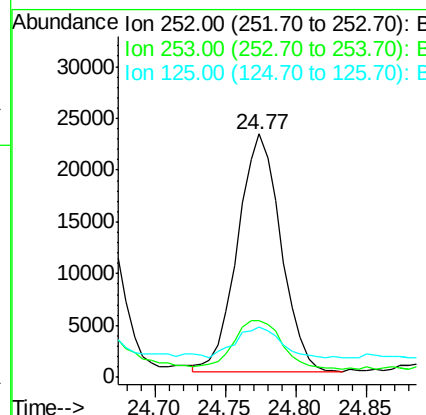
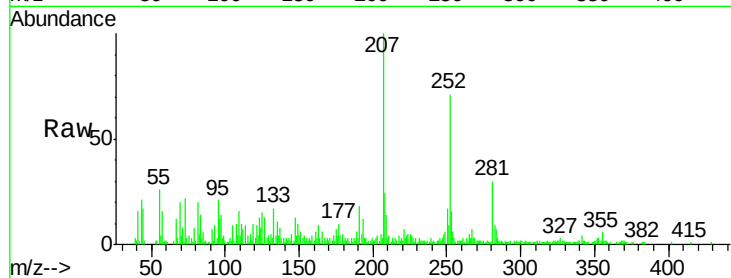
Instrument :

BNA\_M

ClientSampleId :

D9DB0

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 252  | Resp: | 49063 |
| Ion Ratio |      | Lower | Upper |
| 252       | 100  |       |       |
| 253       | 23.1 | 17.6  | 26.4  |
| 125       | 20.7 | 10.7  | 16.1# |



#27

Indeno(1,2,3-cd)pyrene

Concen: 1.21 ng/ul

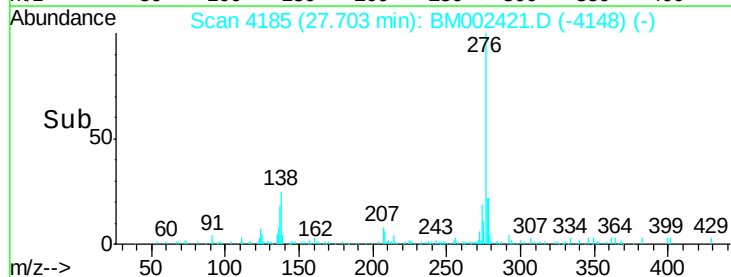
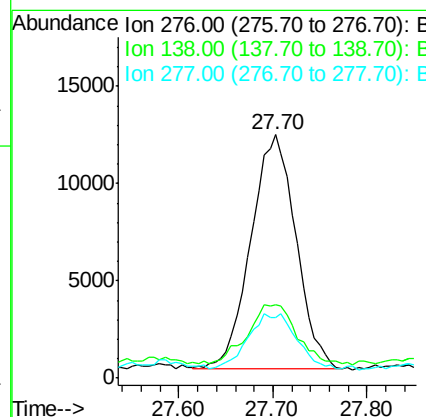
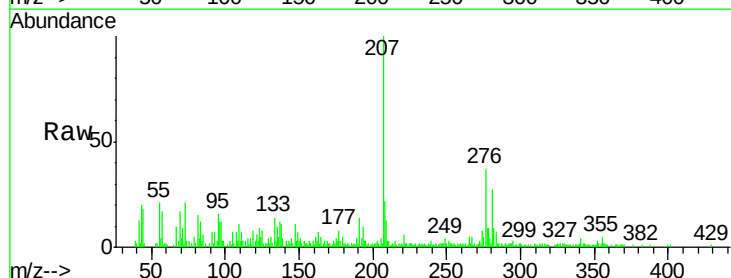
RT: 27.70 min Scan# 4185

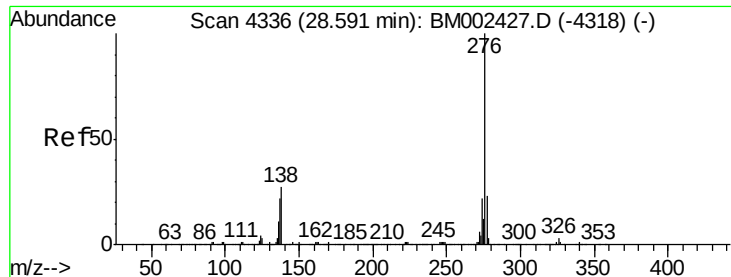
Delta R.T. 0.02 min

Lab File: BM002421.D

Acq: 15 Aug 2015 12:56

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 276  | Resp: | 40191 |
| Ion Ratio |      | Lower | Upper |
| 276       | 100  |       |       |
| 138       | 30.4 | 25.3  | 37.9  |
| 277       | 24.9 | 20.2  | 30.2  |





#29

Benzo(g,h,i)perylene

Concen: 1.39 ng/ul

RT: 28.59 min Scan# 4335

Delta R.T. 0.02 min

Lab File: BM002421.D

Acq: 15 Aug 2015 12:56

Instrument :

BNA\_M

ClientSampleId :

D9DB0

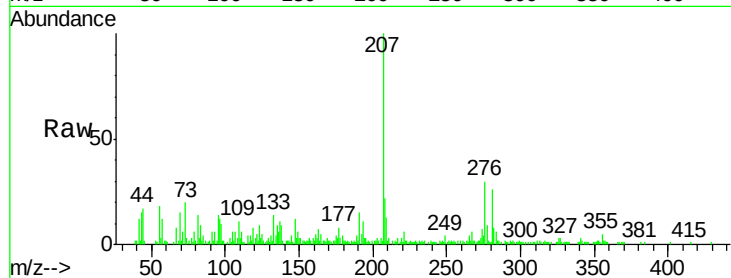
Tgt Ion: 276 Resp: 38449

Ion Ratio Lower Upper

276 100

138 29.4 21.0 31.6

277 29.6 19.2 28.8#



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

