

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\  
 Data File : BM002419.D  
 Acq On : 15 Aug 2015 11:43  
 Operator : UM/IZ  
 Sample : G3219-14  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :

Quant Time: Aug 17 02:56:49 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  | 176515   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 11.74 | 136  | 798214   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 15.45 | 164  | 413707   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 18.15 | 188  | 825137   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 22.23 | 240  | 616262   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.90 | 264  | 511209   | 20.00 | ng/ul | 0.02     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 7) Acenaphthylene-d8        | 15.15 | 160  | 768121   | 18.16 | ng/ul | 0.00     |
| 10) Fluorene-d10            | 16.42 | 176  | 514919   | 17.33 | ng/ul | 0.00     |
| 14) Anthracene-d10          | 18.25 | 188  | 684504   | 17.20 | ng/ul | 0.00     |
| 18) Pyrene-d10              | 20.47 | 212  | 623502   | 22.82 | ng/ul | 0.00     |
| 25) Benzo(a)pyrene-d12      | 24.73 | 264  | 390111   | 14.53 | ng/ul | 0.02     |

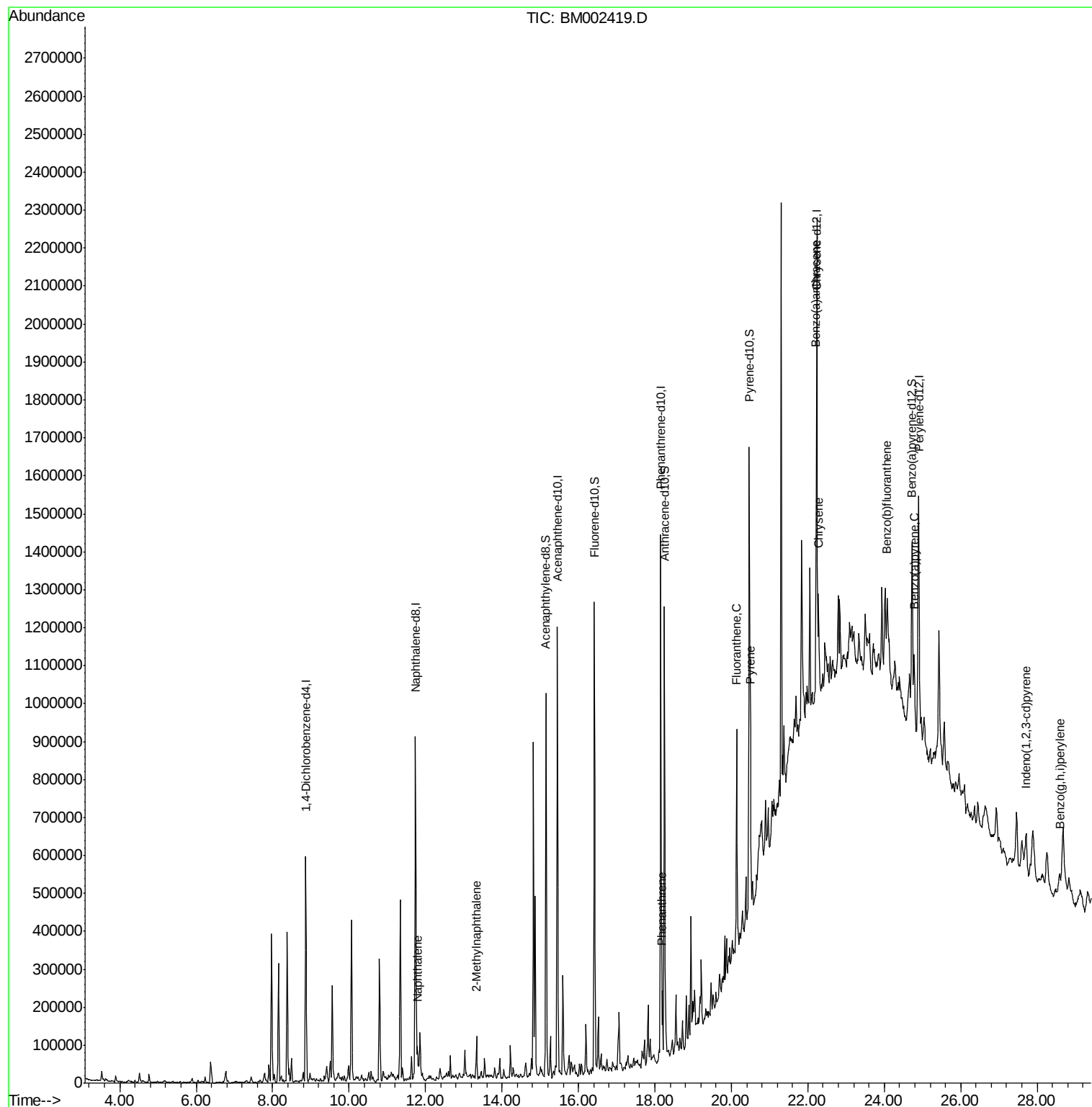
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Ovalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 11.79 | 128  | 75990    | 1.87 | ng/ul  | 99     |
| 4) 2-Methylnaphthalene     | 13.33 | 142  | 57259    | 1.88 | ng/ul  | 98     |
| 13) Phenanthrene           | 18.20 | 178  | 111119   | 2.33 | ng/ul  | 99     |
| 16) Fluoranthene           | 20.14 | 202  | 355344   | 6.59 | ng/ul  | 99     |
| 19) Pyrene                 | 20.50 | 202  | 273033   | 7.56 | ng/ul  | 99     |
| 20) Benzo(a)anthracene     | 22.22 | 228  | 181038   | 4.91 | ng/ul# | 95     |
| 21) Chrysene               | 22.27 | 228  | 176696   | 5.13 | ng/ul# | 94     |
| 23) Benzo(b)fluoranthene   | 24.08 | 252  | 204528   | 6.62 | ng/ul# | 87     |
| 26) Benzo(a)pyrene         | 24.79 | 252  | 116557   | 3.95 | ng/ul# | 87     |
| 27) Indeno(1,2,3-cd)pyrene | 27.71 | 276  | 83752    | 2.47 | ng/ul  | 99     |
| 29) Benzo(g,h,i)perylene   | 28.59 | 276  | 78334    | 2.77 | ng/ul# | 92     |

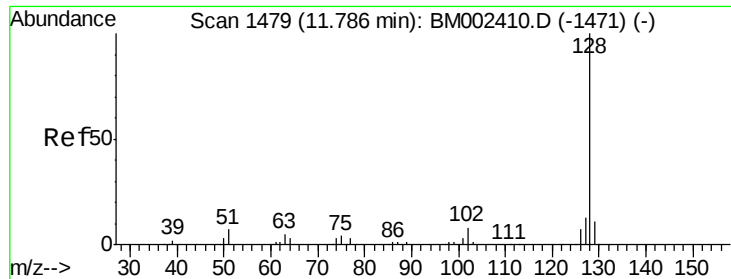
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Aug 17 02:54:04 2015  
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#3

Naphthalene

Concen: 1.87 ng/ul

RT: 11.79 min Scan# 1479

Delta R.T. 0.00 min

Lab File: BM002419.D

Acq: 15 Aug 2015 11:43

Instrument :

BNA\_M

ClientSampleId :

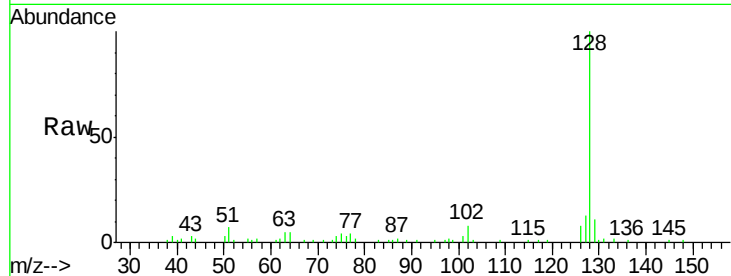
Tot Ion:128 Resp: 75990

Ion Ratio Lower Upper

128 100

129 11.1 8.6 12.8

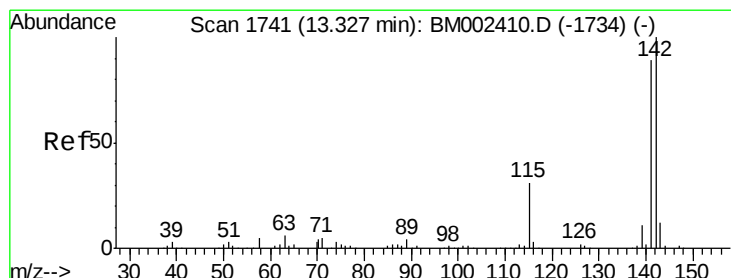
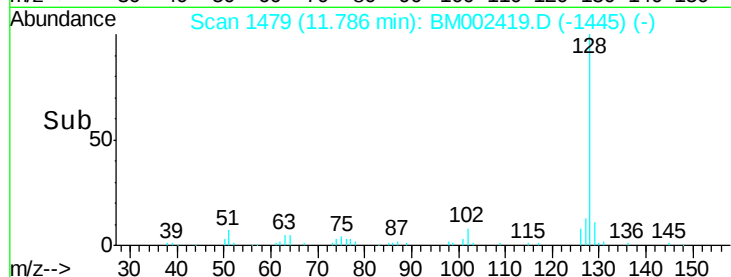
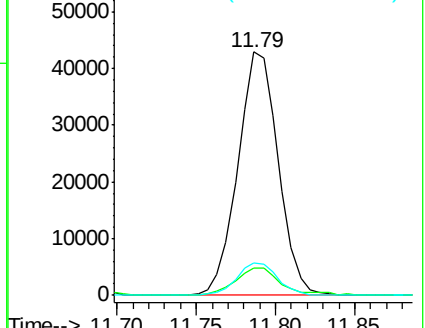
127 13.2 10.4 15.6



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: 1.88 ng/ul

RT: 13.33 min Scan# 1742

Delta R.T. 0.01 min

Lab File: BM002419.D

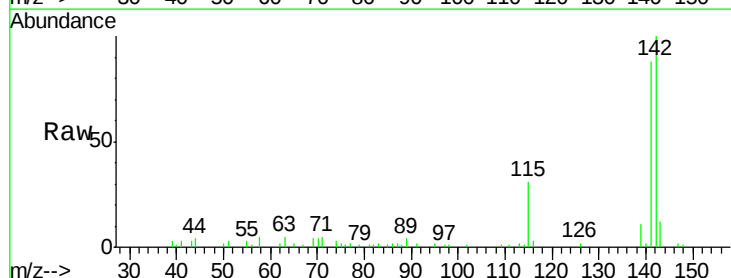
Acq: 15 Aug 2015 11:43

Tgt Ion:142 Resp: 57259

Ion Ratio Lower Upper

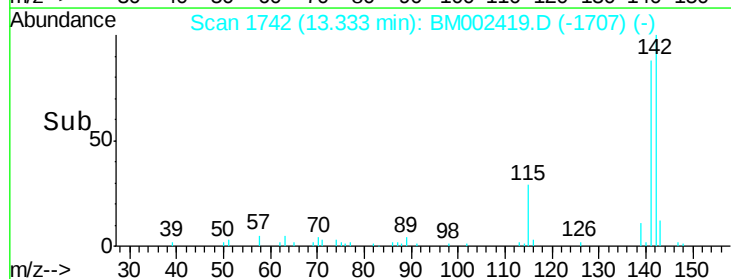
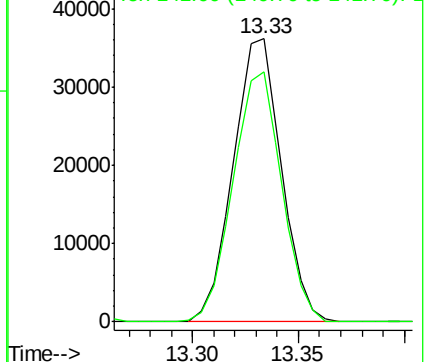
142 100

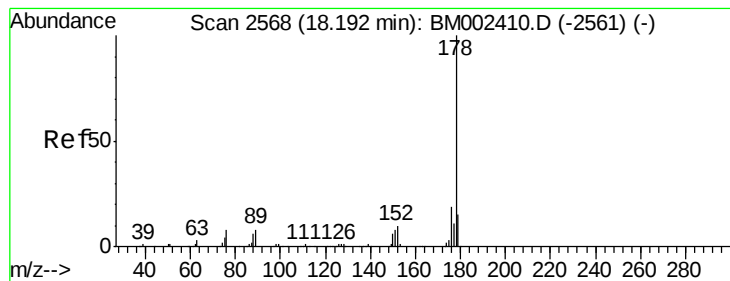
141 88.3 72.2 108.2



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#13

Phenanthrene

Concen: 2.33 ng/ul

RT: 18.20 min Scan# 2569

Delta R.T. 0.01 min

Lab File: BM002419.D

Acq: 15 Aug 2015 11:43

Instrument :

BNA\_M

ClientSampleId :

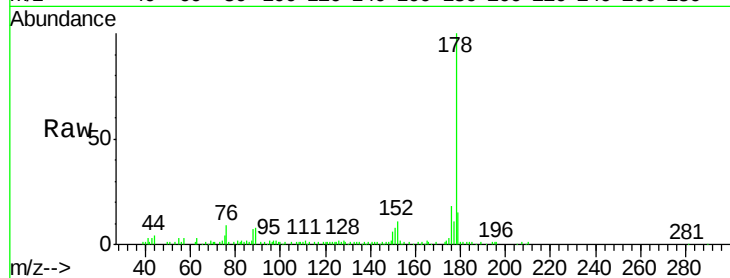
Tot Ion:178 Resp: 111119

Ion Ratio Lower Upper

178 100

179 15.4 12.4 18.6

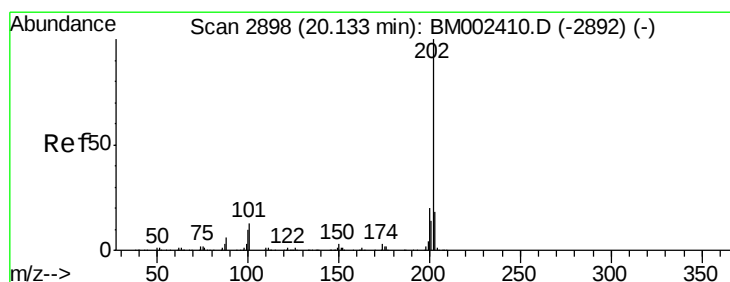
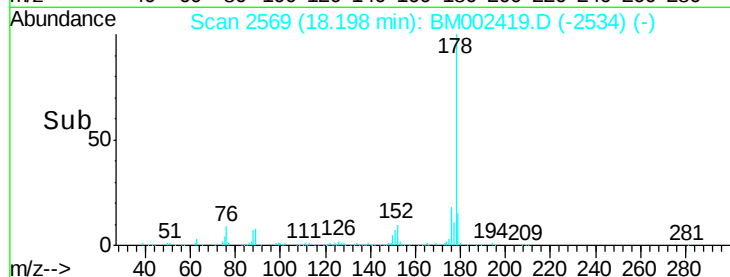
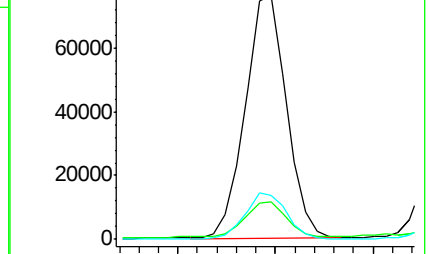
176 18.1 15.1 22.7



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: 6.59 ng/ul

RT: 20.14 min Scan# 2899

Delta R.T. 0.01 min

Lab File: BM002419.D

Acq: 15 Aug 2015 11:43

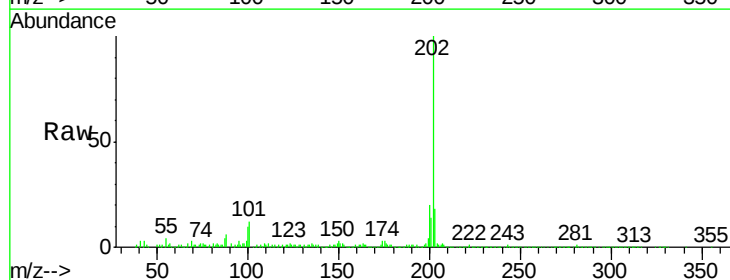
Tgt Ion:202 Resp: 355344

Ion Ratio Lower Upper

202 100

101 12.5 9.7 14.5

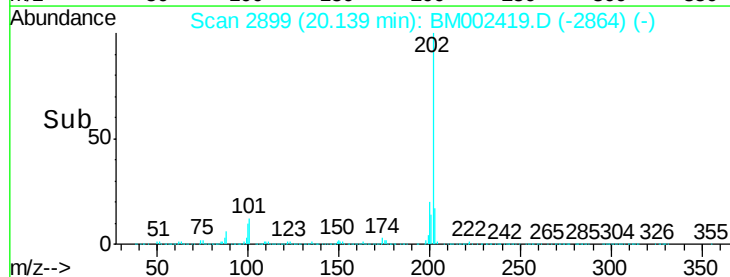
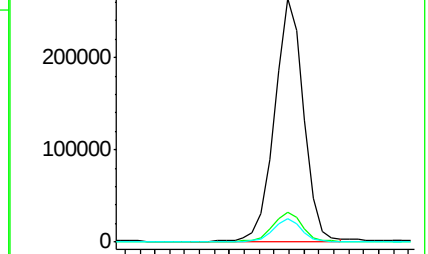
100 9.8 7.4 11.2

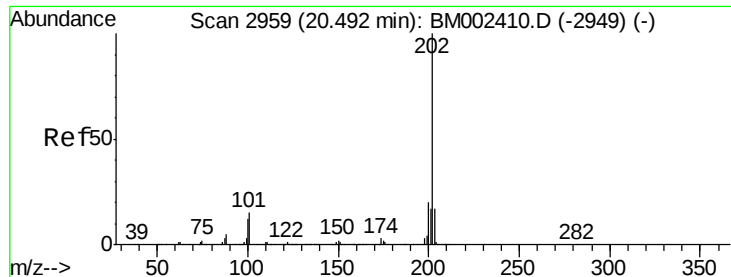


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

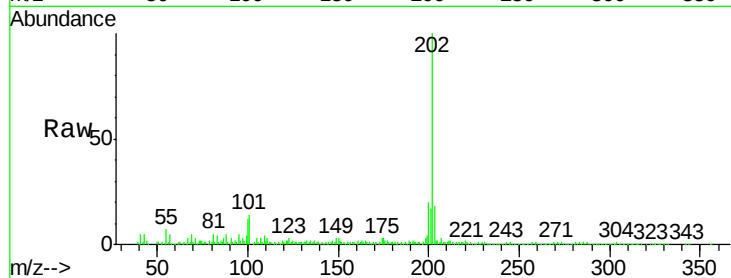




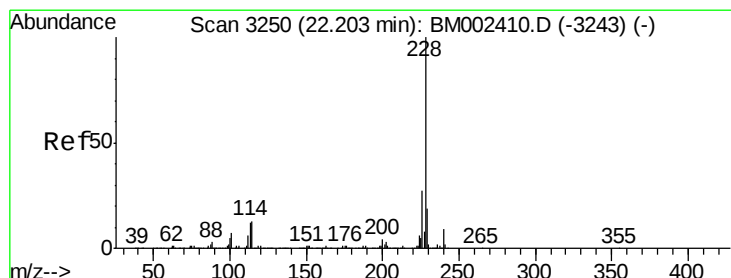
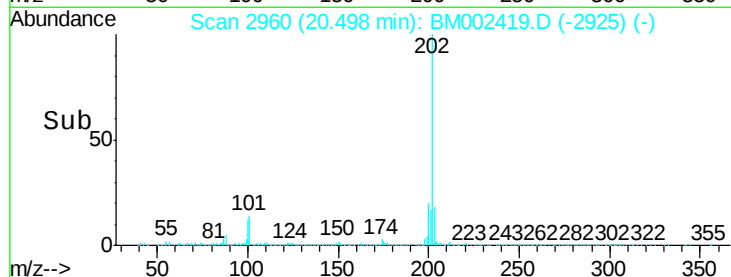
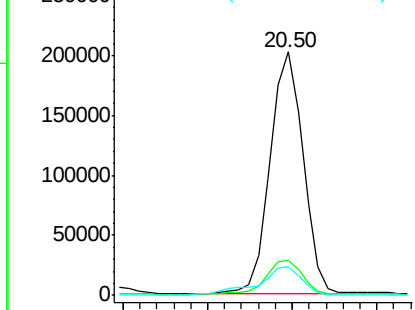
#19  
Pvrene  
Concen: 7.56 ng/ul  
RT: 20.50 min Scan# 2960  
Delta R.T. 0.01 min  
Lab File: BM002419.D  
Acq: 15 Aug 2015 11:43

Instrument :  
BNA\_M  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.2  | 12.0  | 18.0  |
| 100     | 11.8  | 9.7   | 14.5  |

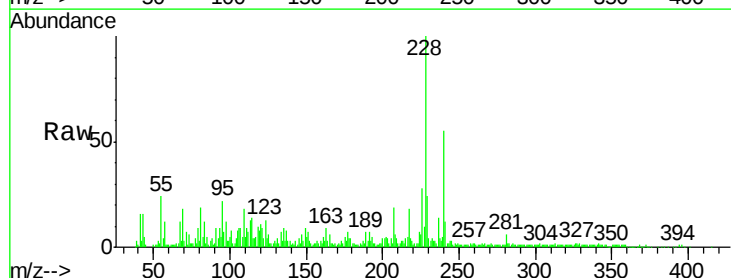


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B

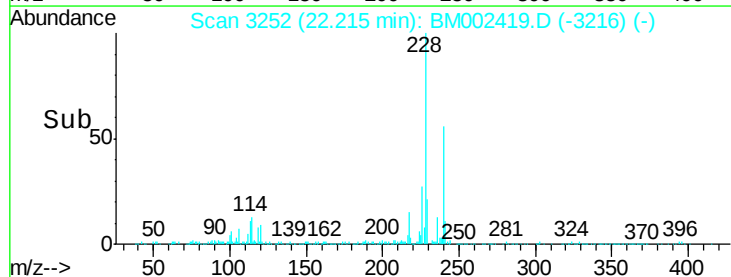
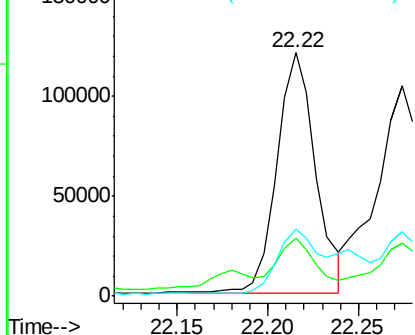


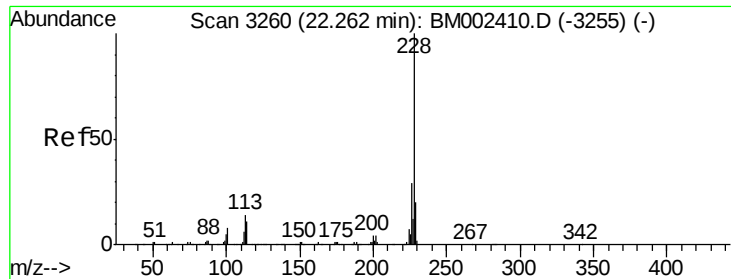
#20  
Benzo(a)anthracene  
Concen: 4.91 ng/ul  
RT: 22.22 min Scan# 3252  
Delta R.T. 0.01 min  
Lab File: BM002419.D  
Acq: 15 Aug 2015 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 23.7  | 15.8  | 23.6# |
| 226     | 27.6  | 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: 5.13 ng/ul

RT: 22.27 min Scan# 3262

Delta R.T. 0.01 min

Lab File: BM002419.D

Acq: 15 Aug 2015 11:43

Instrument :

BNA\_M

ClientSampleId :

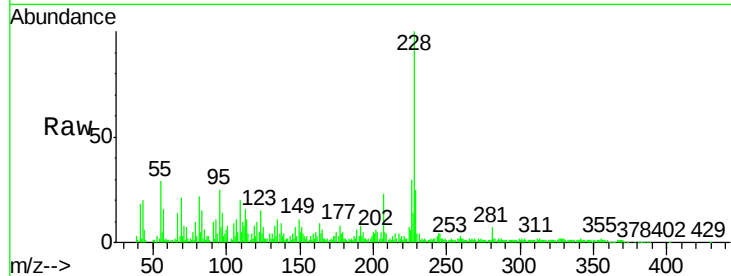
Tot Ion:228 Resp: 176696

Ion Ratio Lower Upper

228 100

226 30.5 23.4 35.2

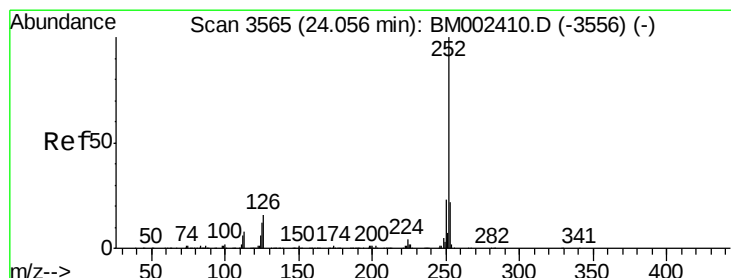
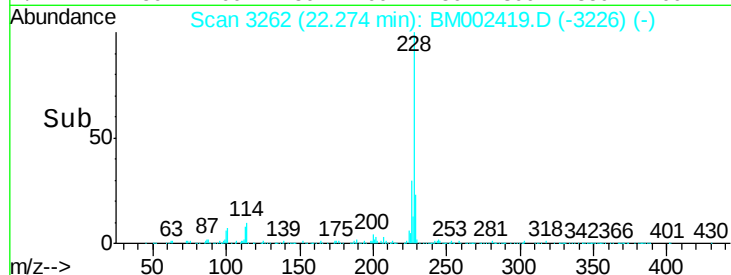
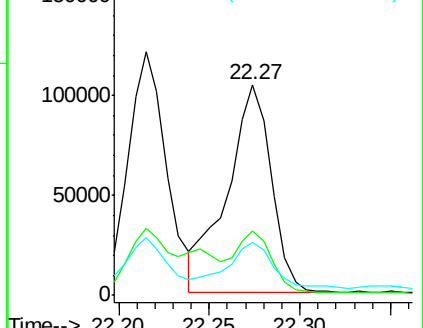
229 25.3 15.7 23.5#



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: 6.62 ng/ul

RT: 24.08 min Scan# 3569

Delta R.T. 0.02 min

Lab File: BM002419.D

Acq: 15 Aug 2015 11:43

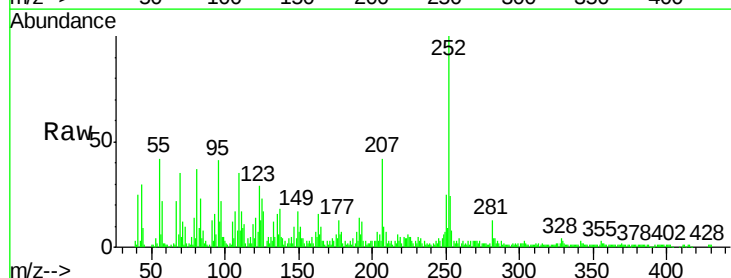
Tgt Ion:252 Resp: 204528

Ion Ratio Lower Upper

252 100

253 23.6 17.4 26.0

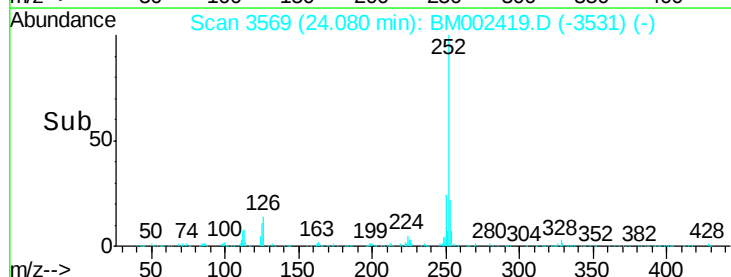
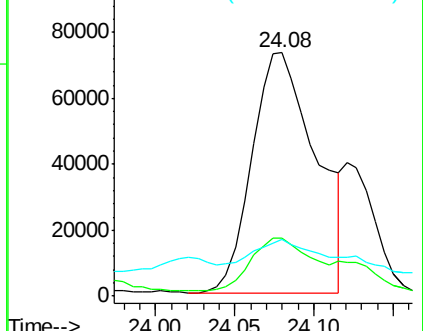
125 23.5 10.0 15.0#

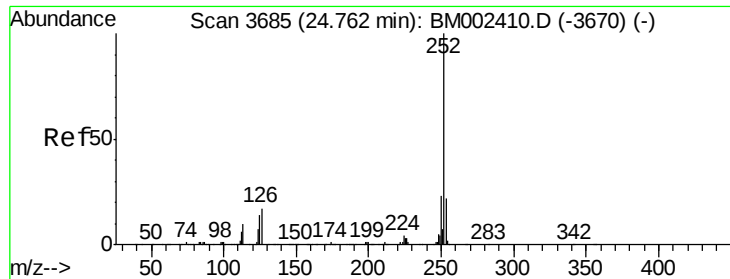


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#26

Benzo(a)pyrene

Concen: 3.95 ng/ul

RT: 24.79 min Scan# 3689

Delta R.T. 0.02 min

Lab File: BM002419.D

Acq: 15 Aug 2015 11:43

Instrument :

BNA\_M

ClientSampleId :

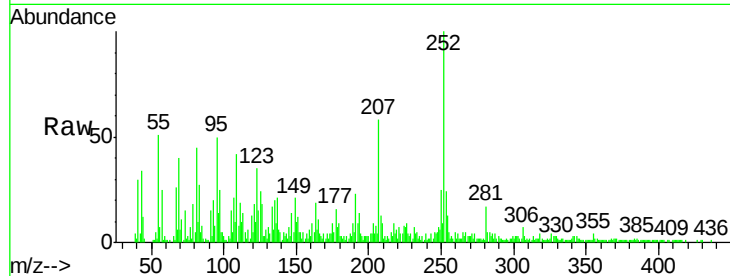
Tot Ion:252 Resp: 116557

Ion Ratio Lower Upper

252 100

253 24.3 17.6 26.4

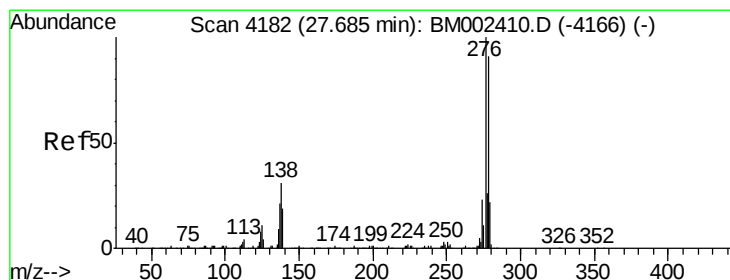
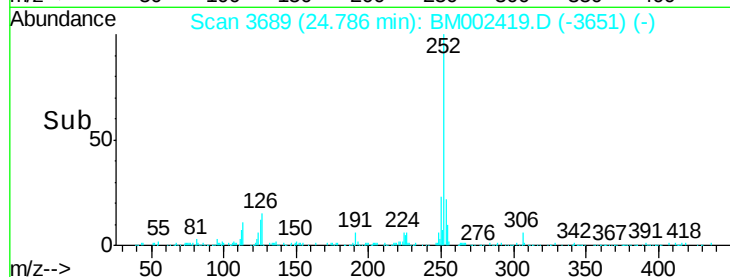
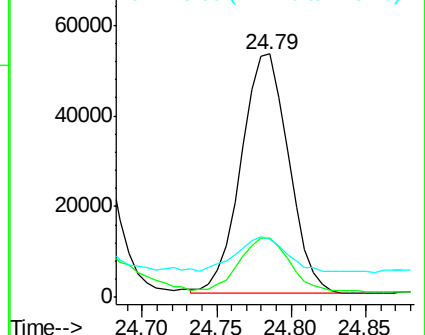
125 24.0 10.7 16.1#



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



#27

Indeno(1,2,3-cd)pyrene

Concen: 2.47 ng/ul

RT: 27.71 min Scan# 4187

Delta R.T. 0.03 min

Lab File: BM002419.D

Acq: 15 Aug 2015 11:43

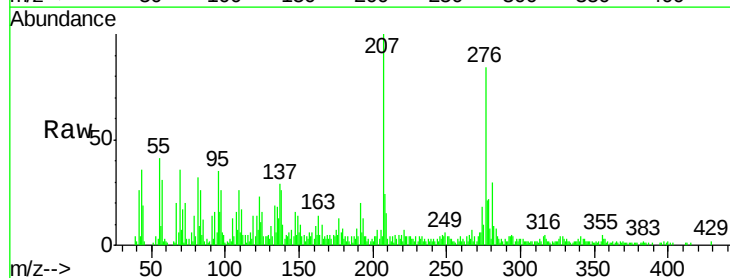
Tgt Ion:276 Resp: 83752

Ion Ratio Lower Upper

276 100

138 30.5 25.3 37.9

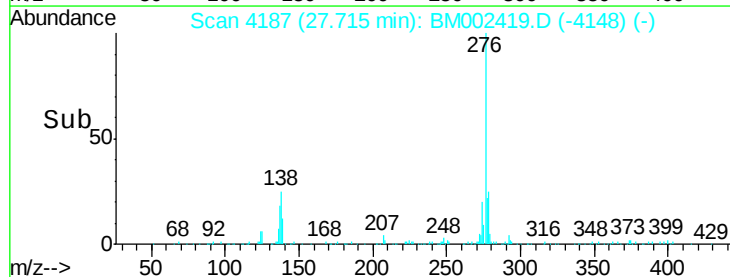
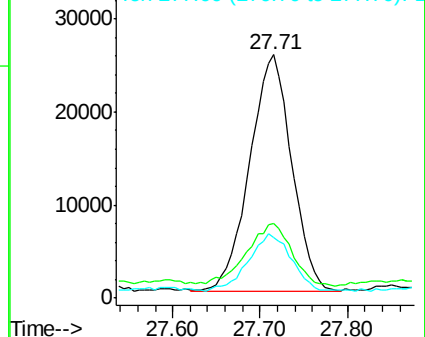
277 24.8 20.2 30.2

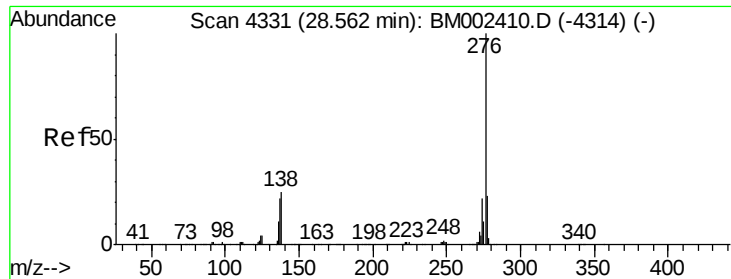


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#29

Benzo(a,h,i)perylene

Concen: 2.77 ng/ul

RT: 28.59 min Scan# 4336

Delta R.T. 0.03 min

Lab File: BM002419.D

Acq: 15 Aug 2015 11:43

Instrument :

BNA\_M

ClientSampleId :

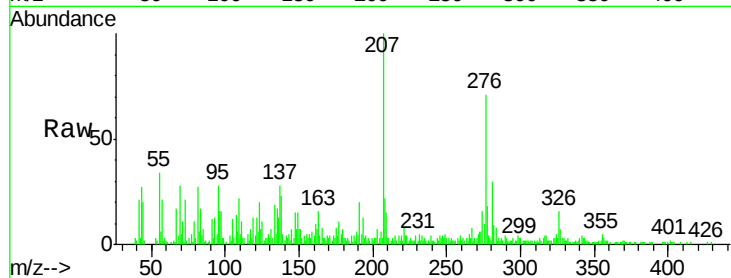
Tot Ion: 276 Resp: 78334

Ion Ratio Lower Upper

276 100

138 32.5 21.0 31.6#

277 25.3 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

