

Data Path : Z:\HPCHEM1\BNA M\DATA\BM081415\  
 Data File : BM002420.D  
 Acq On : 15 Aug 2015 12:19  
 Operator : UM/IZ  
 Sample : G3219-15  
 Misc :  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9DA6

Quant Time: Aug 17 02:57:00 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  | 199182   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 11.74 | 136  | 900492   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 15.45 | 164  | 463807   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 18.16 | 188  | 918764   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 22.23 | 240  | 654782   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.90 | 264  | 563787   | 20.00 | ng/ul | 0.02     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 7) Acenaphthylene-d8        | 15.16 | 160  | 1132024  | 23.87 | ng/ul | 0.00     |
| 10) Fluorene-d10            | 16.42 | 176  | 749935   | 22.52 | ng/ul | 0.00     |
| 14) Anthracene-d10          | 18.25 | 188  | 1002532  | 22.62 | ng/ul | 0.00     |
| 18) Pyrene-d10              | 20.47 | 212  | 892443   | 30.75 | ng/ul | 0.00     |
| 25) Benzo(a)pyrene-d12      | 24.73 | 264  | 577409   | 19.50 | ng/ul | 0.02     |

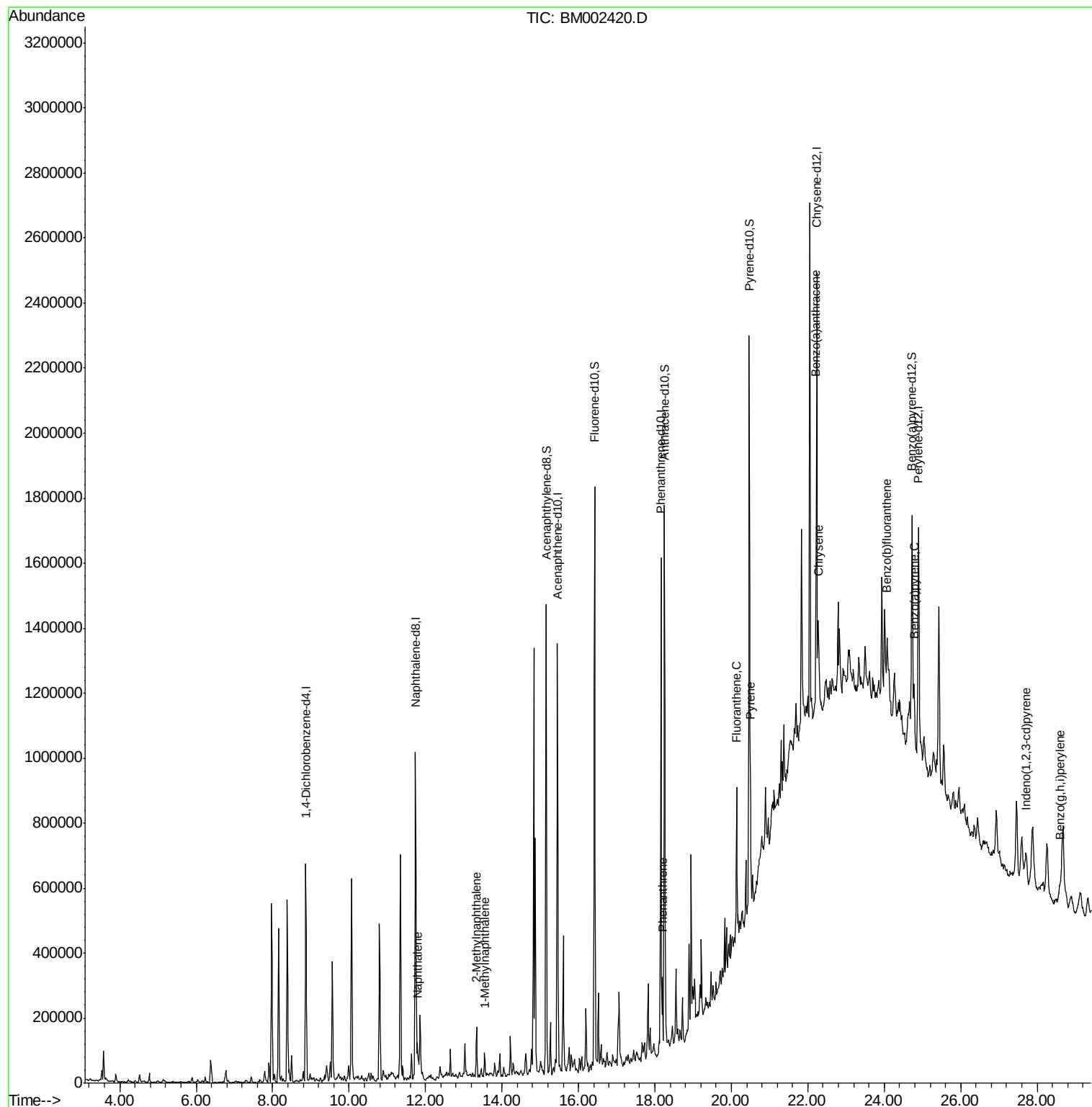
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Ovalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 11.79 | 128  | 104194   | 2.27 | ng/ul  | 98     |
| 4) 2-Methylnaphthalene     | 13.33 | 142  | 77036    | 2.24 | ng/ul  | 99     |
| 5) 1-Methylnaphthalene     | 13.55 | 142  | 34114    | 1.00 | ng/ul  | 98     |
| 13) Phenanthrene           | 18.20 | 178  | 141896   | 2.67 | ng/ul  | 99     |
| 16) Fluoranthene           | 20.14 | 202  | 293209   | 4.88 | ng/ul  | 99     |
| 19) Pyrene                 | 20.50 | 202  | 232849   | 6.07 | ng/ul  | 99     |
| 20) Benzo(a)anthracene     | 22.22 | 228  | 152646   | 3.90 | ng/ul# | 95     |
| 21) Chrysene               | 22.27 | 228  | 177321   | 4.84 | ng/ul# | 94     |
| 23) Benzo(b)fluoranthene   | 24.07 | 252  | 186525   | 5.47 | ng/ul# | 86     |
| 26) Benzo(a)pyrene         | 24.78 | 252  | 109681   | 3.37 | ng/ul# | 84     |
| 27) Indeno(1,2,3-cd)pyrene | 27.71 | 276  | 82901    | 2.21 | ng/ul  | 96     |
| 29) Benzo(g,h,i)perylene   | 28.59 | 276  | 81229    | 2.61 | ng/ul  | 92     |

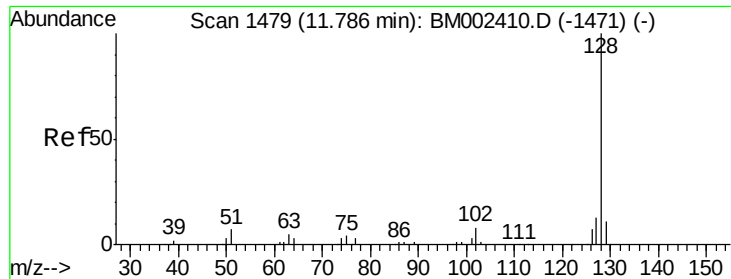
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#3

Naphthalene

Concen: 2.27 ng/ul

RT: 11.79 min Scan# 1480

Delta R.T. 0.01 min

Lab File: BM002420.D

Acq: 15 Aug 2015 12:19

Instrument :

BNA\_M

ClientSampleId :

D9DA6

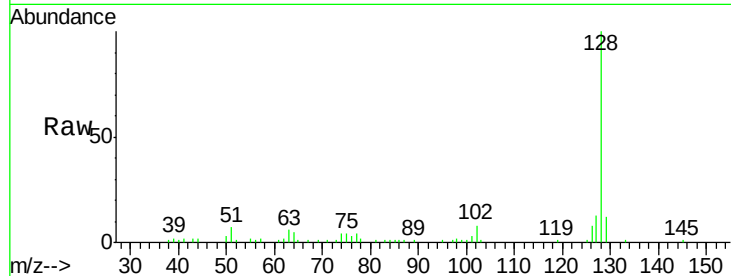
Tot Ion:128 Resp: 104194

Ion Ratio Lower Upper

128 100

129 11.9 8.6 12.8

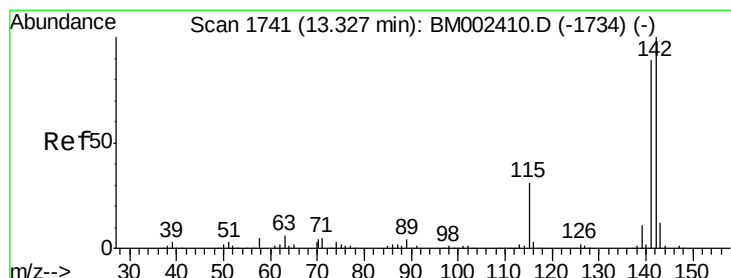
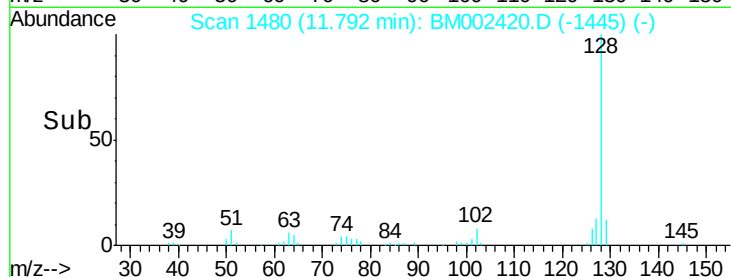
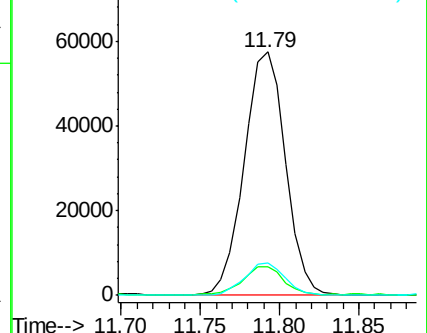
127 13.1 10.4 15.6



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: 2.24 ng/ul

RT: 13.33 min Scan# 1742

Delta R.T. 0.01 min

Lab File: BM002420.D

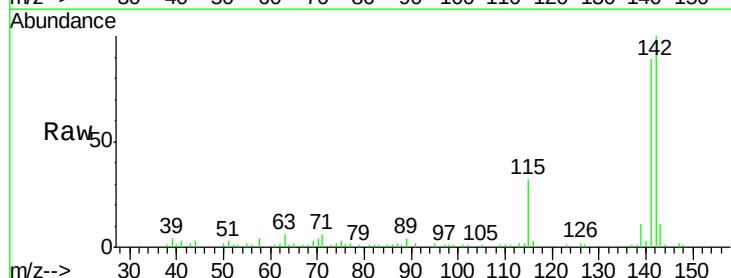
Acq: 15 Aug 2015 12:19

Tgt Ion:142 Resp: 77036

Ion Ratio Lower Upper

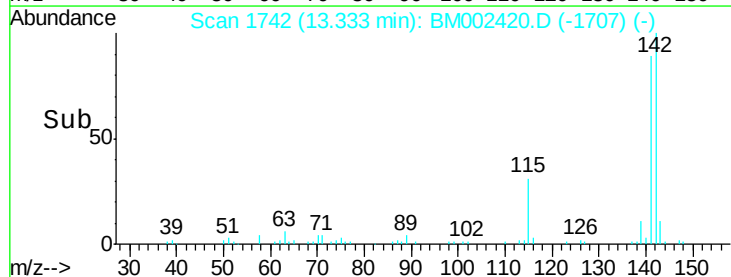
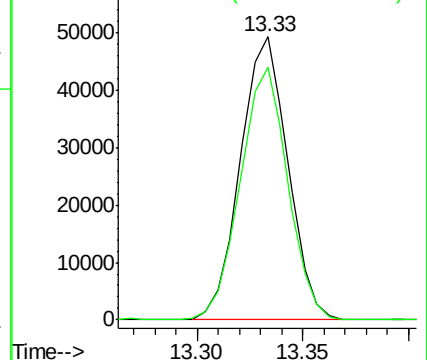
142 100

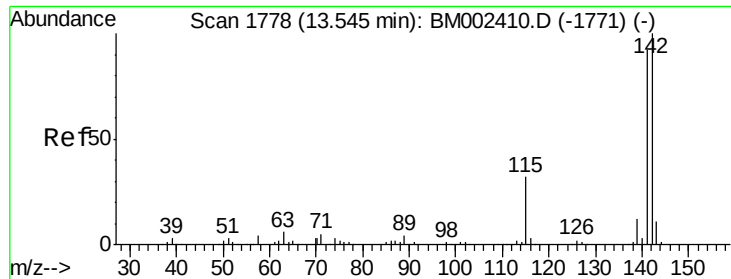
141 89.1 72.2 108.2



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#5

1-Methylnaphthalene

Concen: 1.00 ng/ul

RT: 13.55 min Scan# 1778

Delta R.T. 0.00 min

Lab File: BM002420.D

Acq: 15 Aug 2015 12:19

Instrument :

BNA\_M

ClientSampleId :

D9DA6

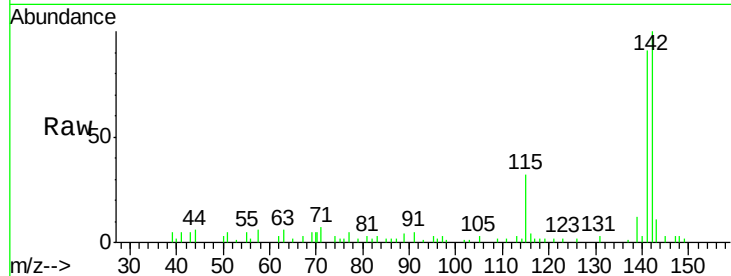
Tot Ion:142 Resp: 34114

Ion Ratio Lower Upper

142 100

141 90.9 73.9 110.9

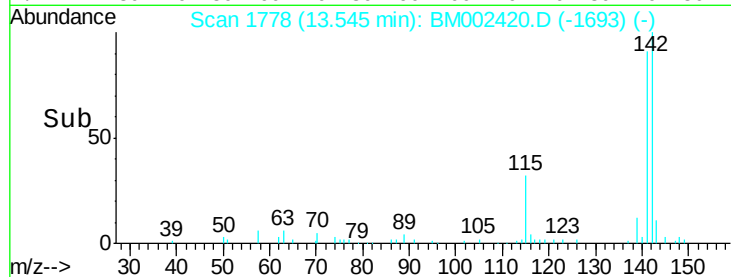
116 3.6 3.0 4.4



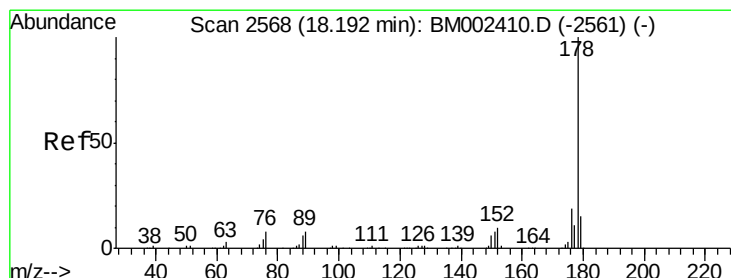
Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 116.00 (115.70 to 116.70): E



Time-->



#13

Phenanthrene

Concen: 2.67 ng/ul

RT: 18.20 min Scan# 2569

Delta R.T. 0.01 min

Lab File: BM002420.D

Acq: 15 Aug 2015 12:19

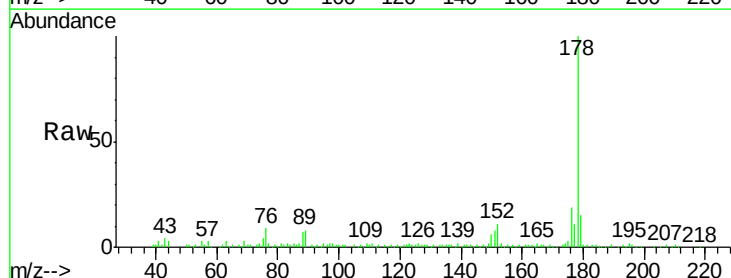
Tgt Ion:178 Resp: 141896

Ion Ratio Lower Upper

178 100

179 15.2 12.4 18.6

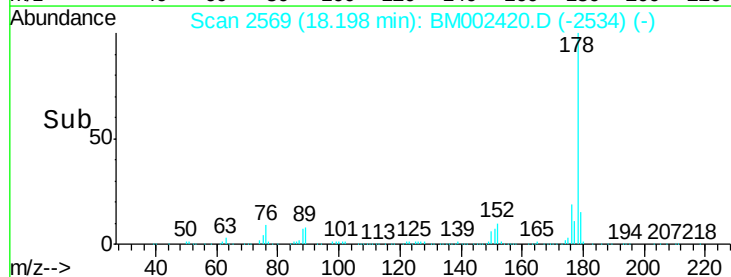
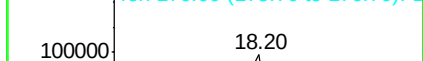
176 18.5 15.1 22.7



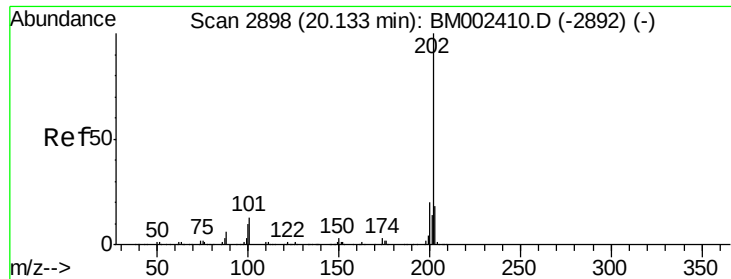
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



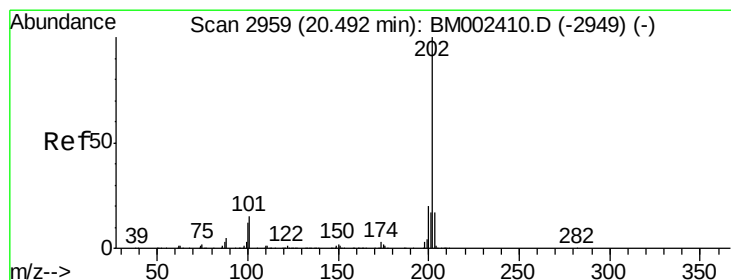
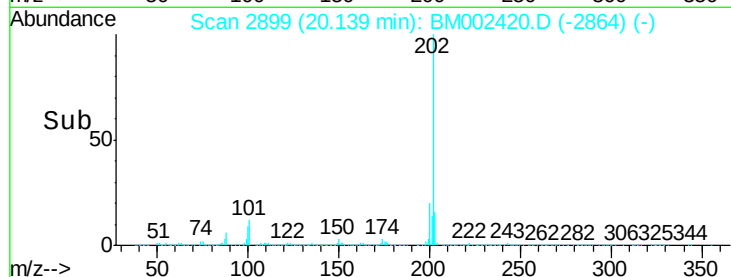
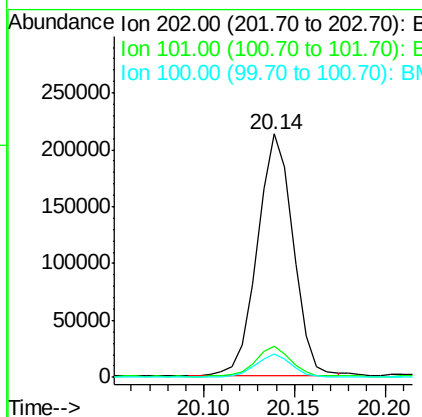
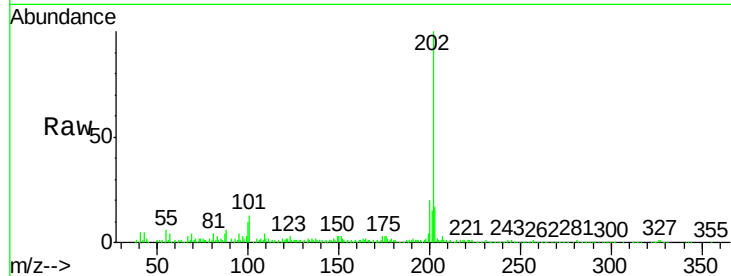
Time-->



#16  
Fluoranthene  
Concen: 4.88 ng/ul  
RT: 20.14 min Scan# 2899  
Delta R.T. 0.01 min  
Lab File: BM002420.D  
Acq: 15 Aug 2015 12:19

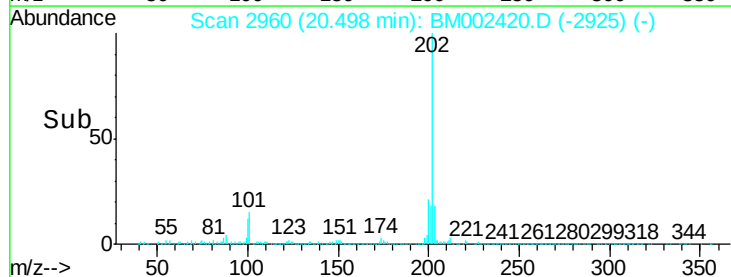
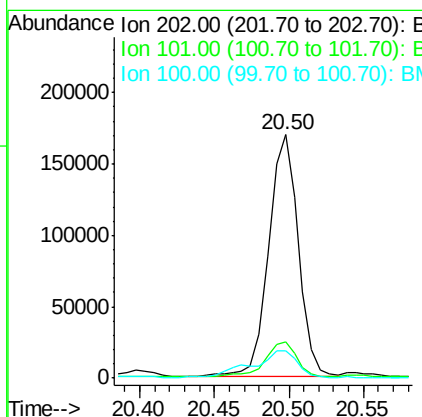
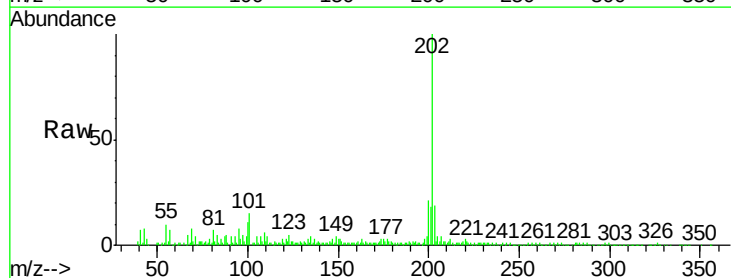
Instrument :  
BNA\_M  
ClientSampled :  
D9DA6

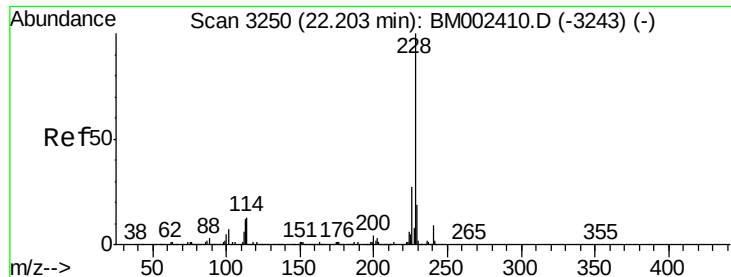
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 202   | Resp: | 293209 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 12.8  | 9.7   | 14.5   |
| 100      | 9.5   | 7.4   | 11.2   |



#19  
Pyrene  
Concen: 6.07 ng/ul  
RT: 20.50 min Scan# 2960  
Delta R.T. 0.01 min  
Lab File: BM002420.D  
Acq: 15 Aug 2015 12:19

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 202   | Resp: | 232849 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 14.7  | 12.0  | 18.0   |
| 100      | 11.5  | 9.7   | 14.5   |

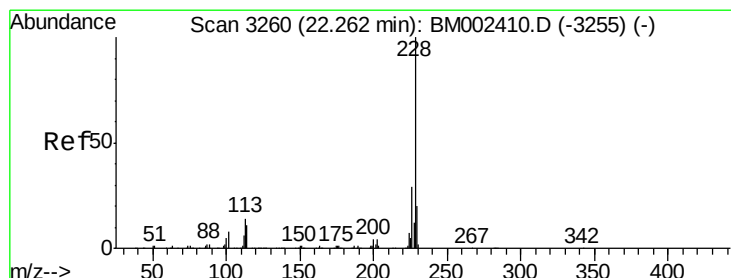
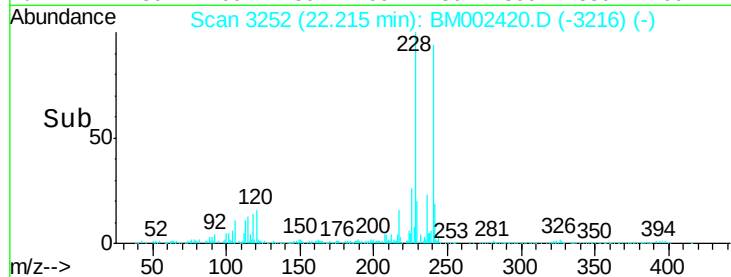
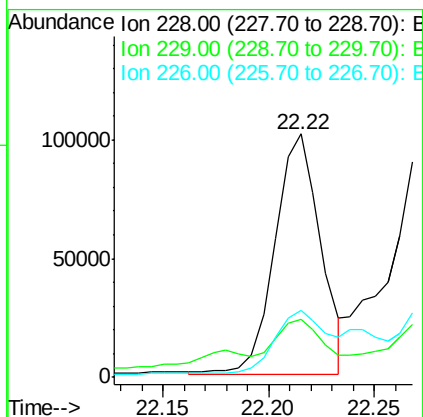
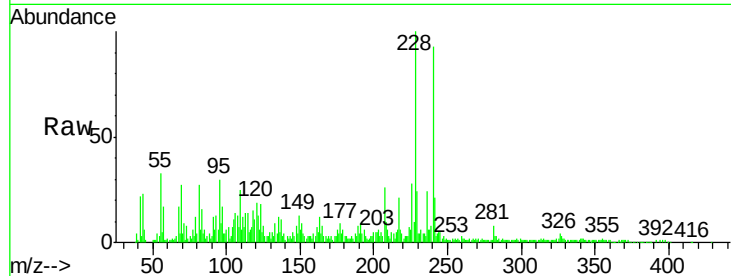




#20  
Benzo(a)anthracene  
Concen: 3.90 ng/ul  
RT: 22.22 min Scan# 3252  
Delta R.T. 0.01 min  
Lab File: BM002420.D  
Acq: 15 Aug 2015 12:19

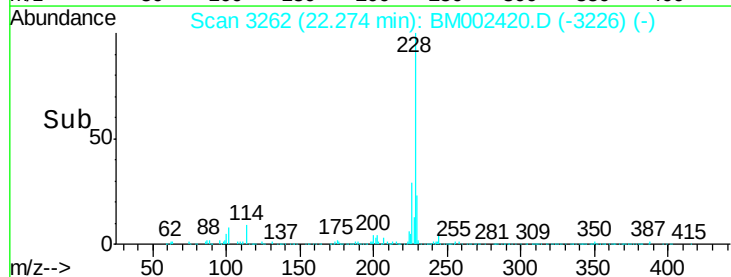
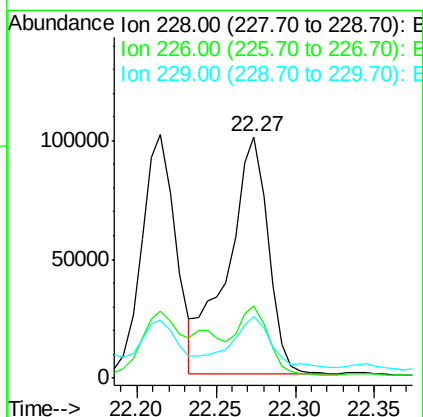
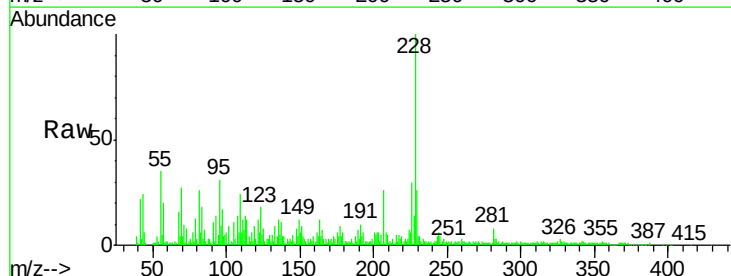
Instrument :  
BNA\_M  
ClientSampleId :  
D9DA6

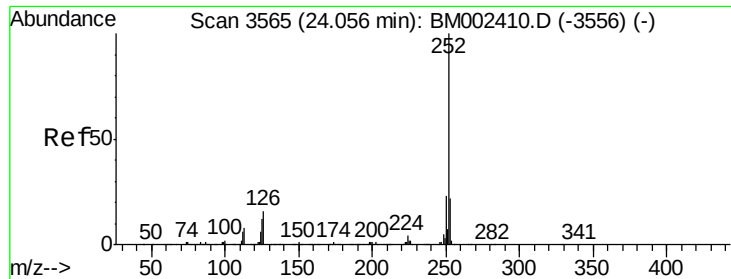
Tot Ion:228 Resp: 152646  
Ion Ratio Lower Upper  
228 100  
229 23.7 15.8 23.6#  
226 27.7 21.1 31.7



#21  
Chrysene  
Concen: 4.84 ng/ul  
RT: 22.27 min Scan# 3262  
Delta R.T. 0.01 min  
Lab File: BM002420.D  
Acq: 15 Aug 2015 12:19

Tgt Ion:228 Resp: 177321  
Ion Ratio Lower Upper  
228 100  
226 29.9 23.4 35.2  
229 25.9 15.7 23.5#

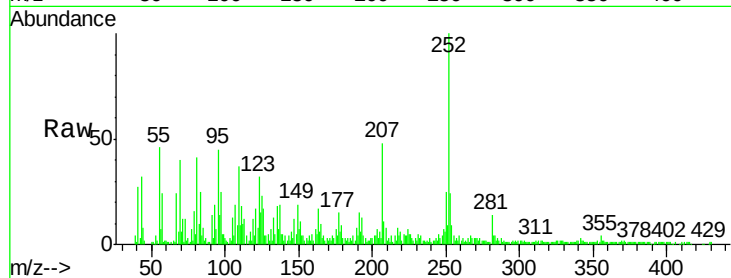




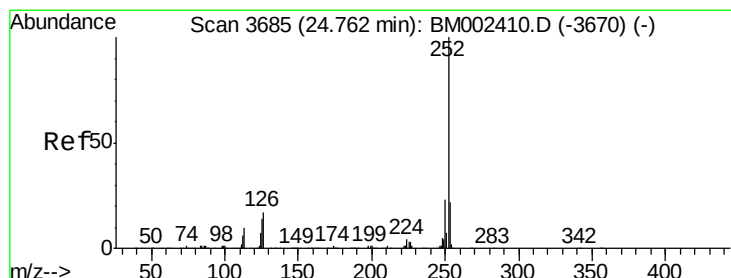
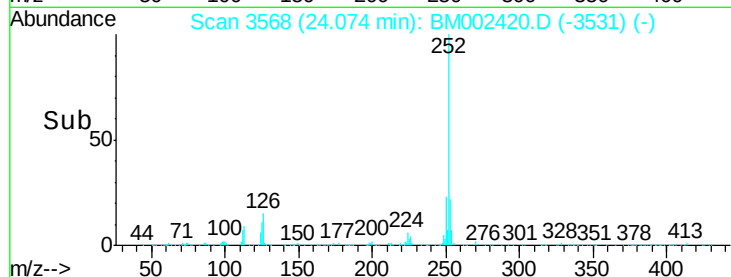
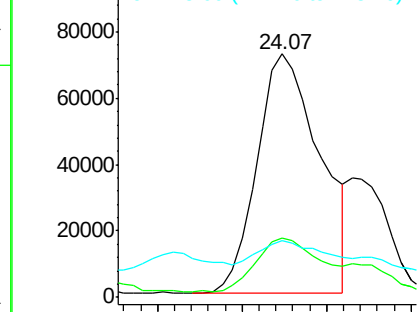
#23  
Benzo(b)fluoranthene  
Concen: 5.47 ng/ul  
RT: 24.07 min Scan# 3568  
Delta R.T. 0.02 min  
Lab File: BM002420.D  
Acq: 15 Aug 2015 12:19

Instrument :  
BNA\_M  
ClientSampleId :  
D9DA6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.4  | 17.4  | 26.0  |
| 125     | 23.4  | 10.0  | 15.0  |

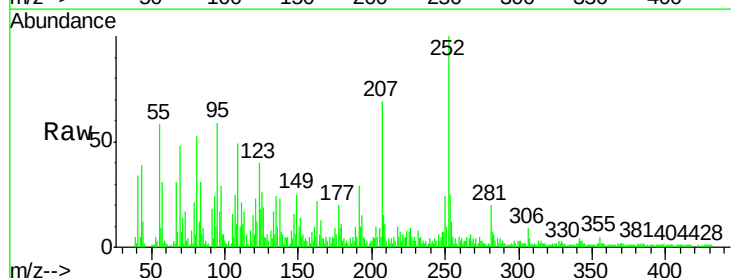


Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

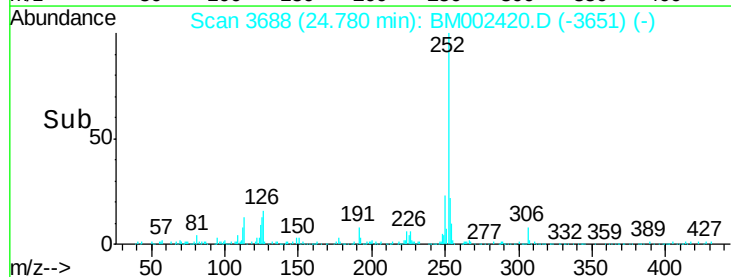
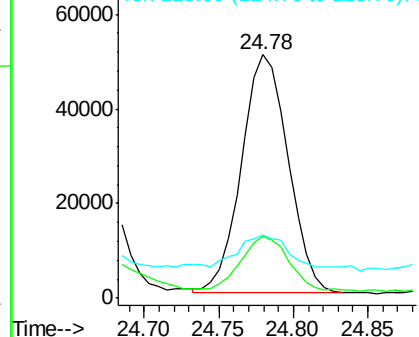


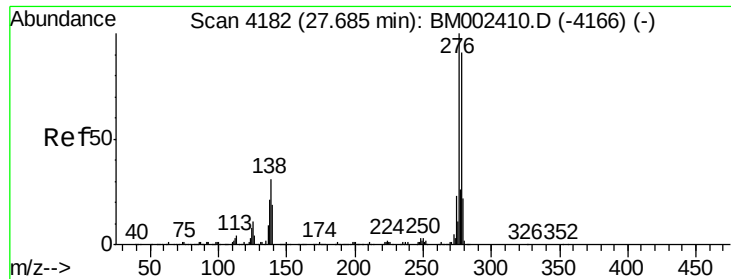
#26  
Benzo(a)pyrene  
Concen: 3.37 ng/ul  
RT: 24.78 min Scan# 3688  
Delta R.T. 0.02 min  
Lab File: BM002420.D  
Acq: 15 Aug 2015 12:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.3  | 17.6  | 26.4  |
| 125     | 25.8  | 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

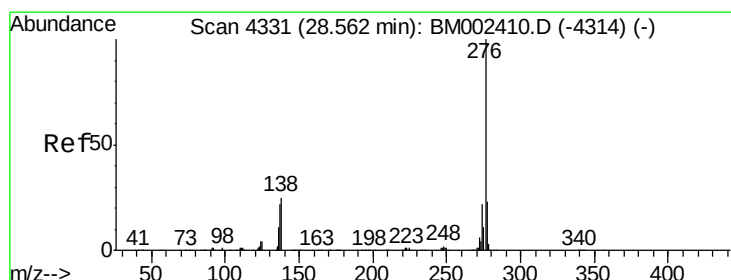
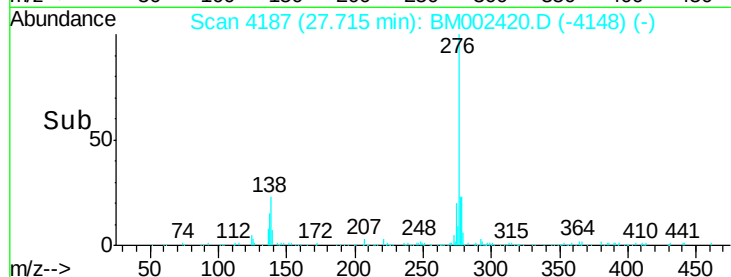
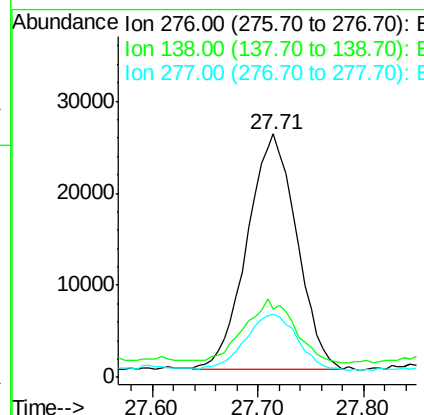
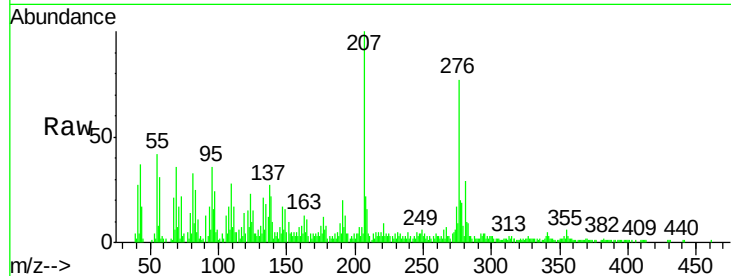




#27  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.21 ng/ul  
 RT: 27.71 min Scan# 4187  
 Delta R.T. 0.03 min  
 Lab File: BM002420.D  
 Acq: 15 Aug 2015 12:19

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9DA6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 28.3  | 25.3  | 37.9  |
| 277     | 26.0  | 20.2  | 30.2  |



#29  
 Benzo(g,h,i)perylene  
 Concen: 2.61 ng/ul  
 RT: 28.59 min Scan# 4336  
 Delta R.T. 0.03 min  
 Lab File: BM002420.D  
 Acq: 15 Aug 2015 12:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 31.4  | 21.0  | 31.6  |
| 277     | 26.6  | 19.2  | 28.8  |

