

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM061216\  
 Data File : BM005756.D  
 Acq On : 12 Jun 2016 19:39  
 Operator : UM/SJ  
 Sample : H3536-03  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9Y15

Quant Time: Jun 13 03:31:34 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM061016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Jun 13 03:29:45 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.75  | 152  | 103278   | 20.00 | ng/ul | 0.00     |
| 7) Naphthalene-d8         | 10.53 | 136  | 537425   | 20.00 | ng/ul | 0.00     |
| 15) Acenaphthene-d10      | 14.39 | 164  | 326518   | 20.00 | ng/ul | -0.01    |
| 23) Phenanthrene-d10      | 17.13 | 188  | 713954   | 20.00 | ng/ul | -0.01    |
| 29) Chrysene-d12          | 21.32 | 240  | 537396   | 20.00 | ng/ul | -0.01    |
| 34) Perylene-d12          | 23.57 | 264  | 494064   | 20.00 | ng/ul | -0.01    |

## System Monitoring Compounds

|                                |       |     |        |       |       |       |
|--------------------------------|-------|-----|--------|-------|-------|-------|
| 2) 1,4-Dioxane-d8              | 3.19  | 96  | 2692   | 1.13  | ng/uL | 0.00  |
| 3) Phenol-d5                   | 6.93  | 99  | 121559 | 13.64 | ng/ul | 0.00  |
| 4) Bis-(2-Chloroethyl)ether-d  | 7.07  | 67  | 84822  | 15.84 | ng/ul | 0.00  |
| 5) 2-Chlorophenol-d4           | 7.28  | 132 | 111400 | 15.46 | ng/ul | 0.00  |
| 6) 4-Methylphenol-d8           | 8.46  | 113 | 92013  | 12.22 | ng/ul | 0.00  |
| 8) Nitrobenzene-d5             | 8.90  | 128 | 58862  | 15.20 | ng/ul | 0.00  |
| 9) 2-Nitrophenol-d4            | 9.63  | 143 | 65383  | 14.93 | ng/ul | 0.00  |
| 10) 2,4-Dichlorophenol-d3      | 10.17 | 165 | 118113 | 14.87 | ng/ul | 0.00  |
| 12) 4-Chloroaniline-d4         | 10.68 | 131 | 72616  | 7.58  | ng/ul | 0.00  |
| 16) Dimethylphthalate-d6       | 13.80 | 166 | 428218 | 15.90 | ng/ul | 0.00  |
| 17) Acenaphthylene-d8          | 14.08 | 160 | 552738 | 16.78 | ng/ul | 0.00  |
| 20) 4-Nitrophenol-d4           | 14.63 | 143 | 26789  | 6.80  | ng/ul | 0.00  |
| 21) Fluorene-d10               | 15.38 | 176 | 381185 | 16.72 | ng/ul | -0.01 |
| 24) 4,6-Dinitro-2-methylphenol | 15.53 | 200 | 24376  | 6.60  | ng/ul | -0.01 |
| 26) Anthracene-d10             | 17.23 | 188 | 562350 | 16.72 | ng/ul | 0.00  |
| 30) Pyrene-d10                 | 19.53 | 212 | 547989 | 21.22 | ng/ul | 0.00  |
| 37) Benzo(a)pyrene-d12         | 23.43 | 264 | 401183 | 17.80 | ng/ul | -0.01 |

## Target Compounds

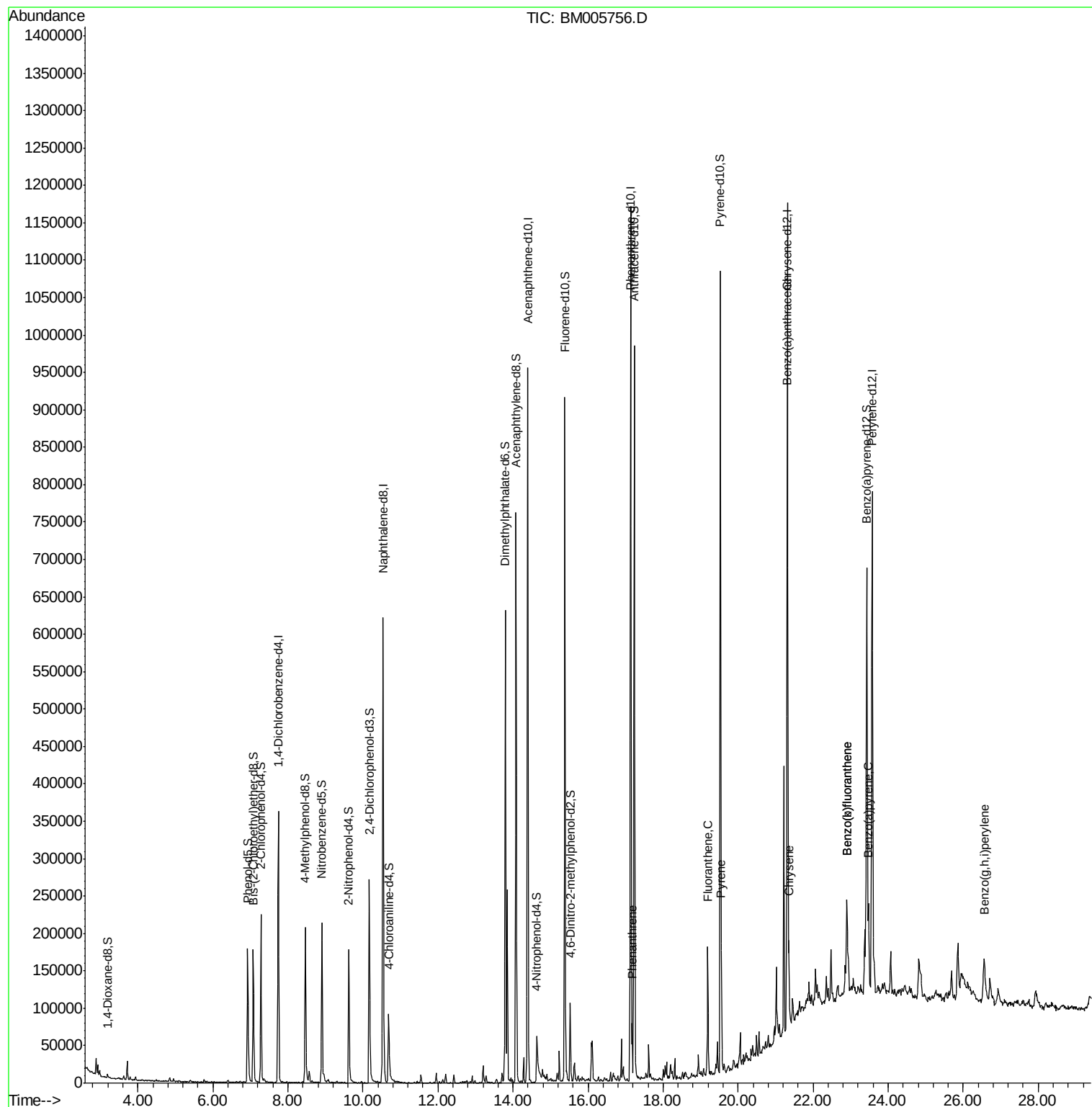
|                          |       |     |        |      |       | Qvalue |
|--------------------------|-------|-----|--------|------|-------|--------|
| 25) Phenanthrene         | 17.17 | 178 | 42681  | 1.09 | ng/ul | 99     |
| 28) Fluoranthene         | 19.19 | 202 | 98565  | 2.15 | ng/ul | 99     |
| 31) Pyrene               | 19.56 | 202 | 89609  | 2.74 | ng/ul | 100    |
| 32) Benzo(a)anthracene   | 21.30 | 228 | 52570  | 1.69 | ng/ul | 97     |
| 33) Chrysene             | 21.36 | 228 | 61970  | 2.02 | ng/ul | 97     |
| 35) Benzo(b)fluoranthene | 22.90 | 252 | 114959 | 3.92 | ng/ul | 99     |
| 36) Benzo(k)fluoranthene | 22.90 | 252 | 114959 | 3.88 | ng/ul | 99     |
| 38) Benzo(a)pyrene       | 23.48 | 252 | 74872  | 2.69 | ng/ul | 99     |
| 41) Benzo(g,h,i)perylene | 26.56 | 276 | 71612  | 3.15 | ng/ul | 97     |

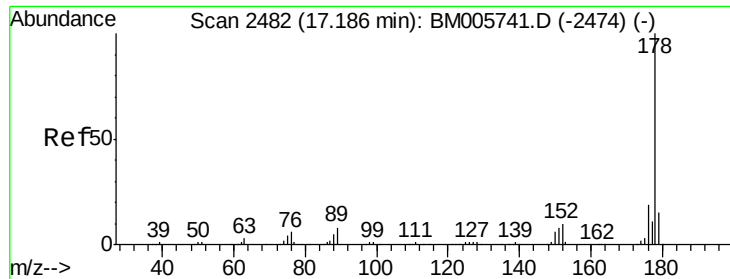
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#25

Phenanthrene

Concen: 1.09 ng/ul

RT: 17.17 min Scan# 2480

Delta R.T. -0.01 min

Lab File: BM005756.D

Acq: 12 Jun 2016 19:39

Instrument :

BNA\_M

ClientSampleId :

D9Y15

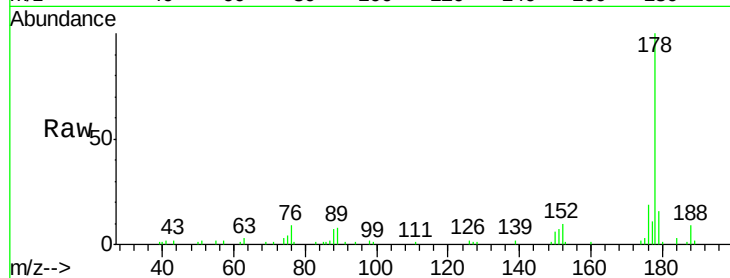
Tgt Ion:178 Resp: 42681

Ion Ratio Lower Upper

178 100

179 15.6 12.4 18.6

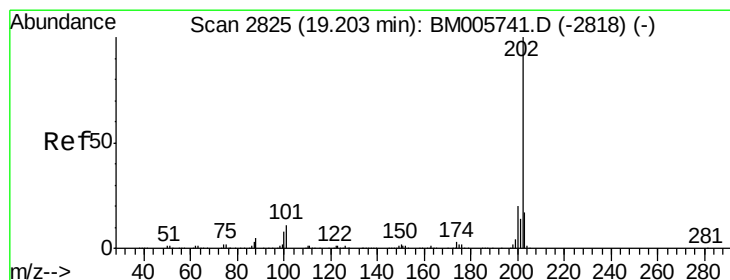
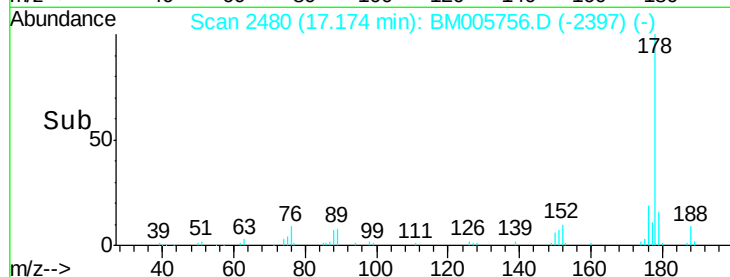
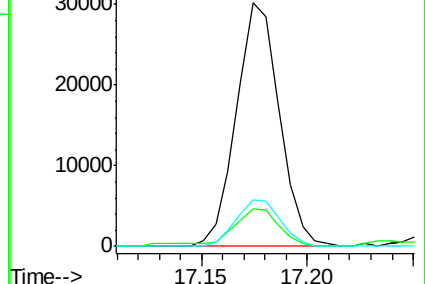
176 19.1 15.8 23.6



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



#28

Fluoranthene

Concen: 2.15 ng/ul

RT: 19.19 min Scan# 2823

Delta R.T. -0.01 min

Lab File: BM005756.D

Acq: 12 Jun 2016 19:39

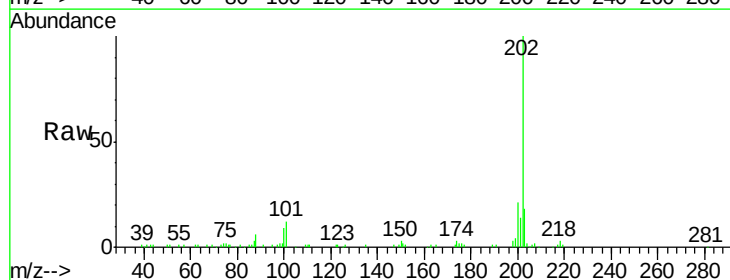
Tgt Ion:202 Resp: 98565

Ion Ratio Lower Upper

202 100

101 12.0 9.4 14.2

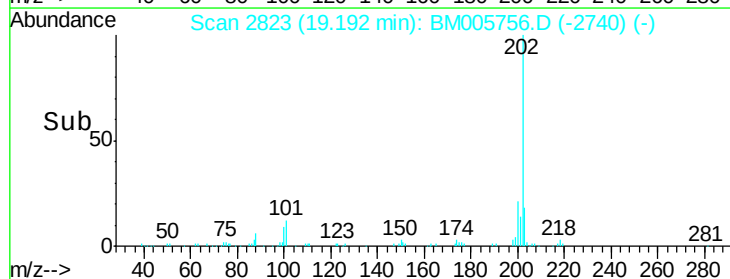
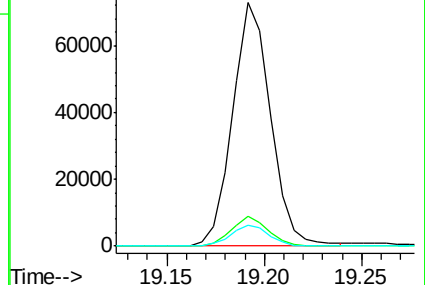
100 8.8 6.9 10.3

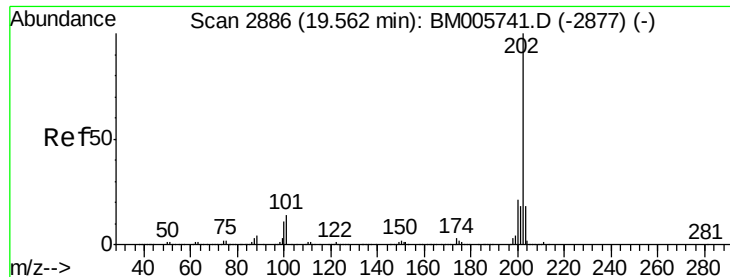


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#31

Pyrene

Concen: 2.74 ng/ul

RT: 19.56 min Scan# 2885

Delta R.T. -0.01 min

Lab File: BM005756.D

Acq: 12 Jun 2016 19:39

Instrument :

BNA\_M

ClientSampleId :

D9Y15

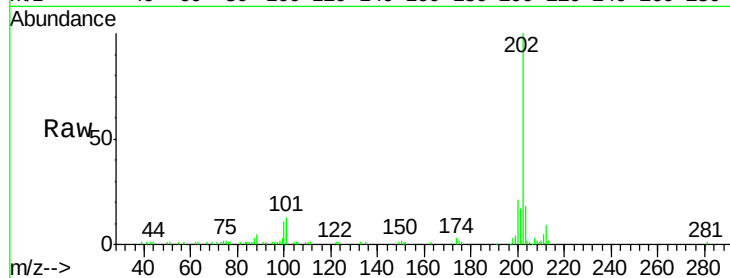
Tgt Ion:202 Resp: 89609

Ion Ratio Lower Upper

202 100

101 13.1 10.6 15.8

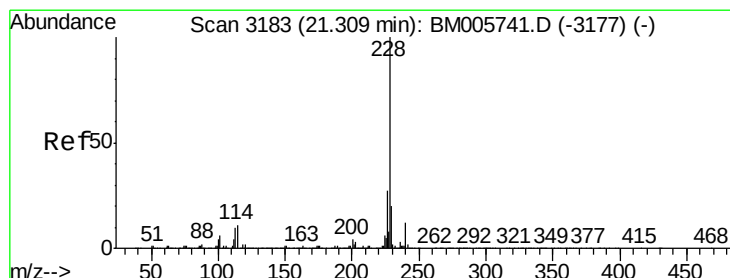
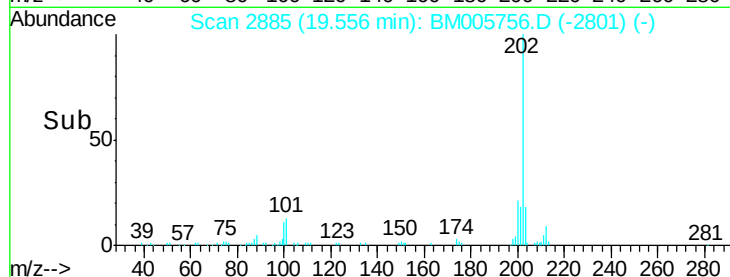
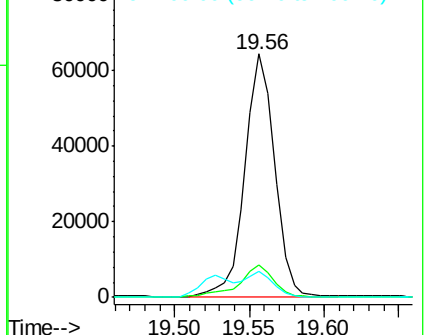
100 10.5 8.4 12.6



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



#32

Benzo(a)anthracene

Concen: 1.69 ng/ul

RT: 21.30 min Scan# 3182

Delta R.T. -0.01 min

Lab File: BM005756.D

Acq: 12 Jun 2016 19:39

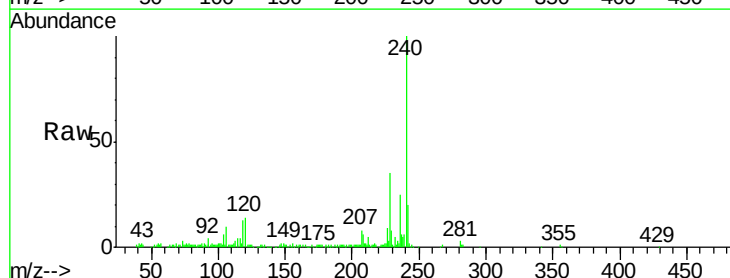
Tgt Ion:228 Resp: 52570

Ion Ratio Lower Upper

228 100

229 22.4 16.1 24.1

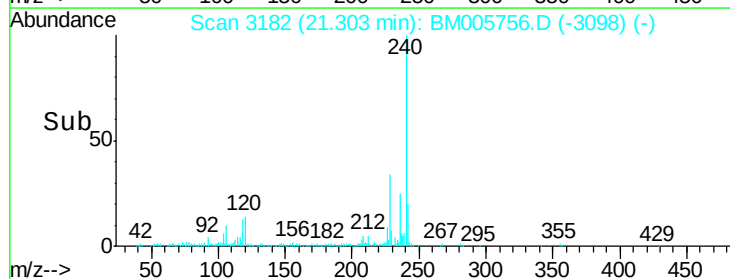
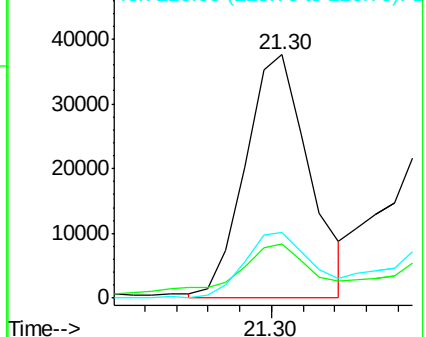
226 27.2 22.1 33.1

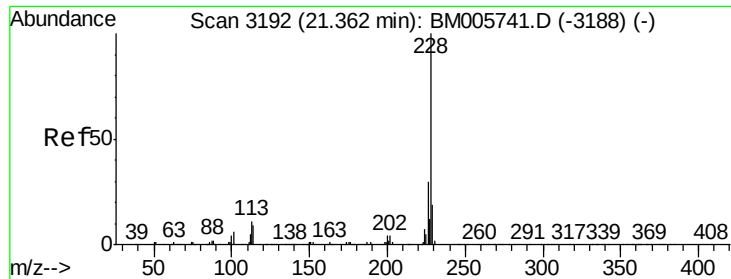


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E

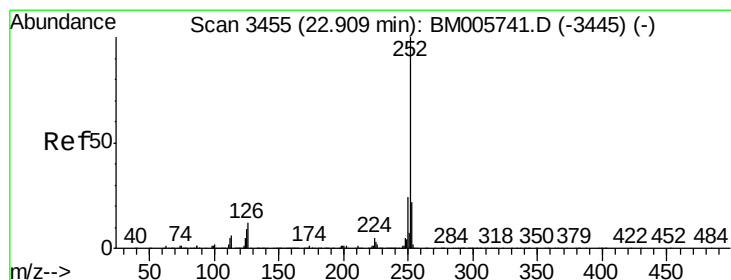
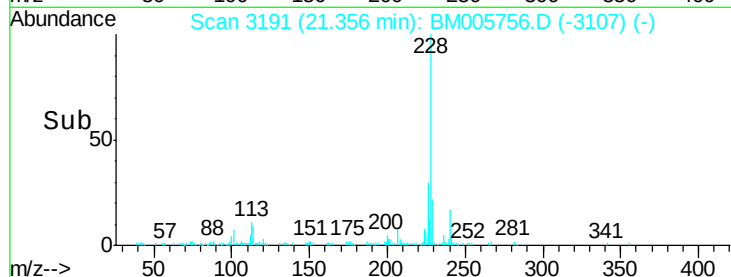
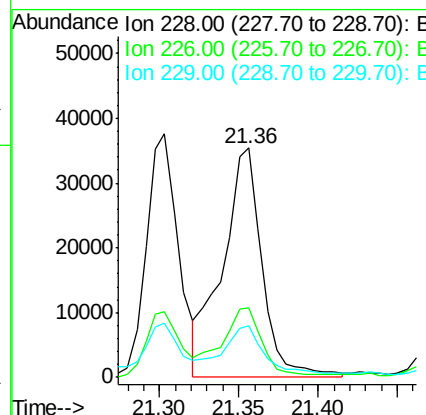
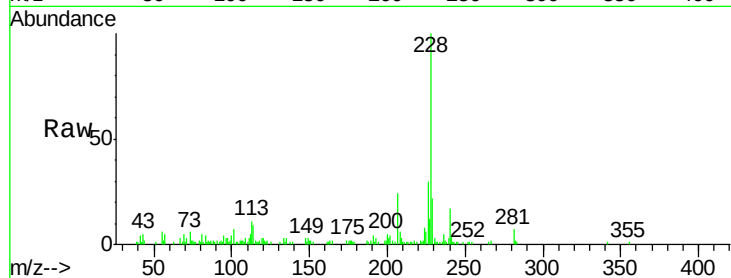




#33  
Chrysene  
Concen: 2.02 ng/ul  
RT: 21.36 min Scan# 3191  
Delta R.T. -0.01 min  
Lab File: BM005756.D  
Acq: 12 Jun 2016 19:39

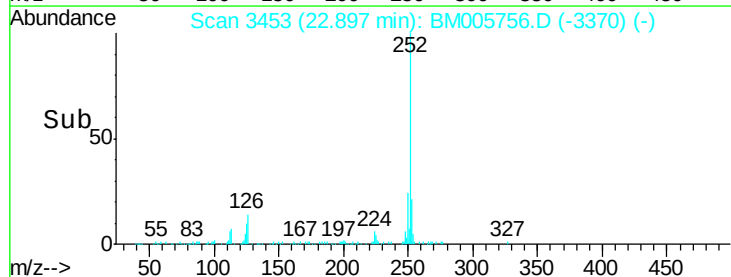
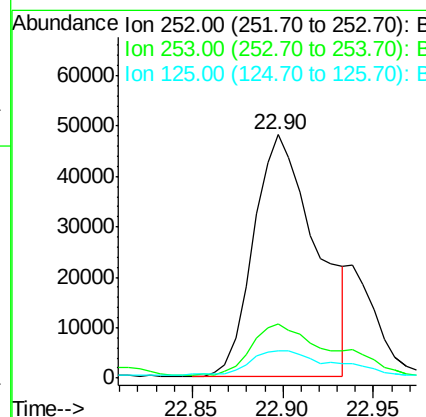
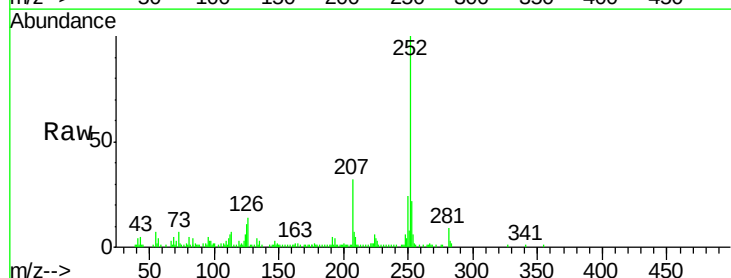
Instrument :  
BNA\_M  
ClientSampleId :  
D9Y15

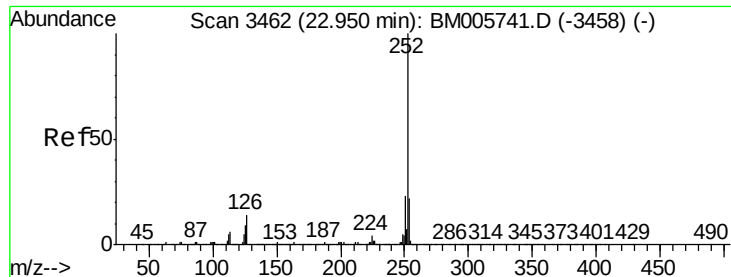
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.5  | 24.2  | 36.2  |
| 229     | 22.3  | 15.8  | 23.8  |



#35  
Benzo(b)fluoranthene  
Concen: 3.92 ng/ul  
RT: 22.90 min Scan# 3453  
Delta R.T. -0.01 min  
Lab File: BM005756.D  
Acq: 12 Jun 2016 19:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.2  | 18.2  | 27.2  |
| 125     | 11.0  | 8.4   | 12.6  |





#36

Benzo(k)fluoranthene

Concen: 3.88 ng/ul

RT: 22.90 min Scan# 3453

Delta R.T. -0.05 min

Lab File: BM005756.D

Acq: 12 Jun 2016 19:39

Instrument :

BNA\_M

ClientSampleId :

D9Y15

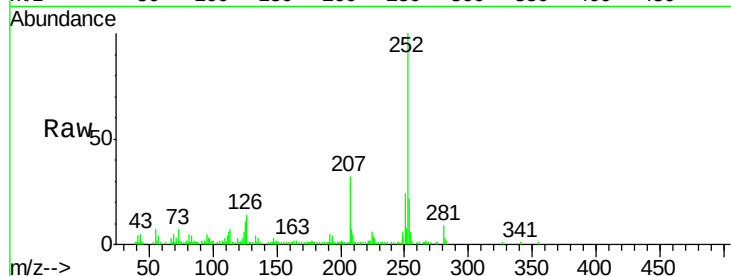
Tgt Ion:252 Resp: 114959

Ion Ratio Lower Upper

252 100

253 22.2 17.5 26.3

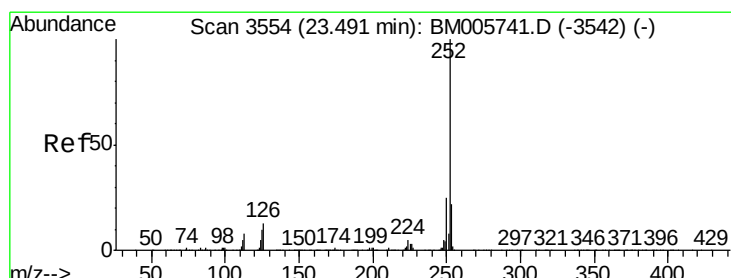
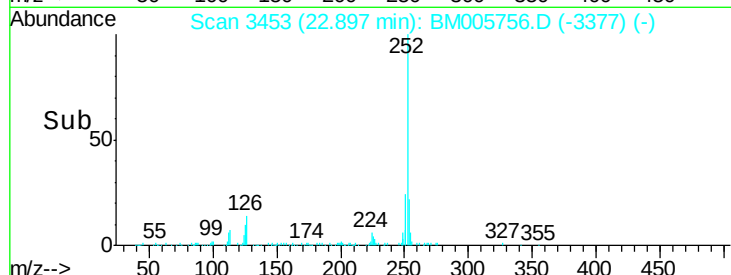
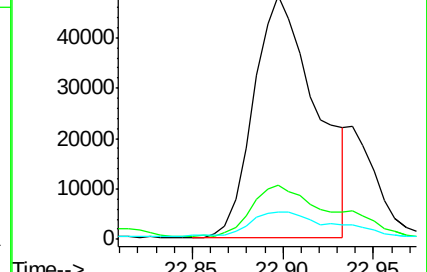
125 11.0 8.2 12.2



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



#38

Benzo(a)pyrene

Concen: 2.69 ng/ul

RT: 23.48 min Scan# 3552

Delta R.T. -0.01 min

Lab File: BM005756.D

Acq: 12 Jun 2016 19:39

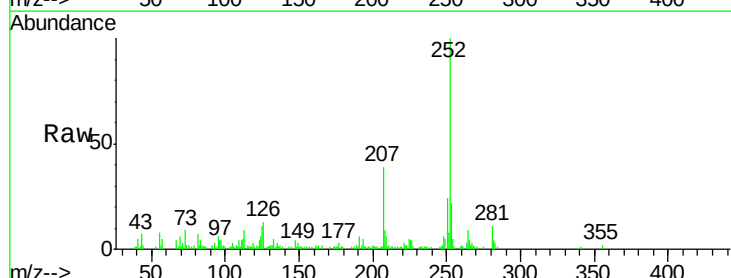
Tgt Ion:252 Resp: 74872

Ion Ratio Lower Upper

252 100

253 21.6 17.7 26.5

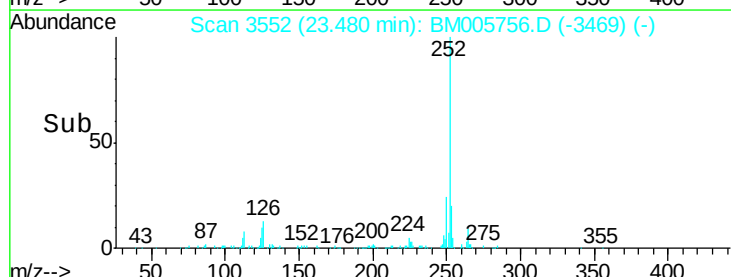
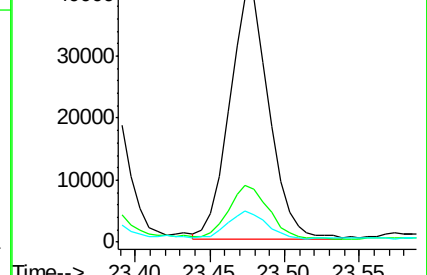
125 11.0 9.1 13.7

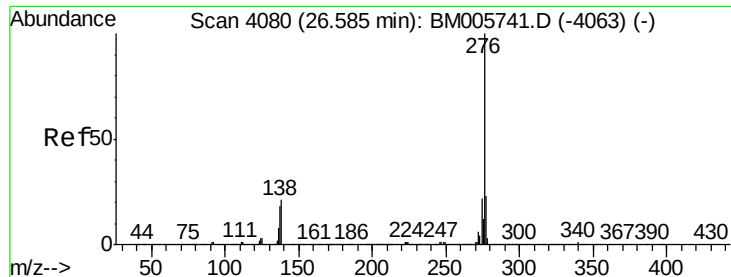


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#41

Benzo(g,h,i)perylene

Concen: 3.15 ng/ul

RT: 26.56 min Scan# 4076

Delta R.T. -0.02 min

Lab File: BM005756.D

Acq: 12 Jun 2016 19:39

Instrument :

BNA\_M

ClientSampleId :

D9Y15

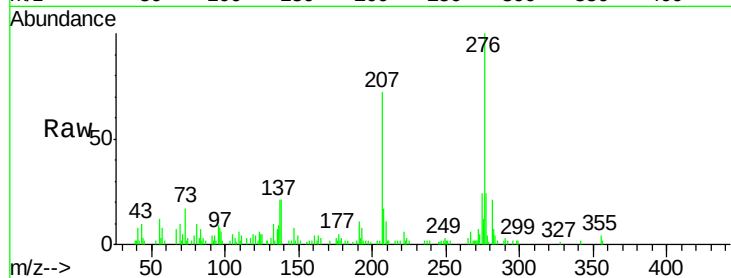
Tgt Ion:276 Resp: 71612

Ion Ratio Lower Upper

276 100

138 20.8 18.2 27.4

277 23.6 19.5 29.3



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

