

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM080715\  
 Data File : BM002280.D  
 Acq On : 08 Aug 2015 17:01  
 Operator : TP/UM  
 Sample : G3161-17  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9C62

Quant Time: Aug 09 05:34:25 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM080715MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sun Aug 09 05:31:20 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.92  | 152  | 246509   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 11.80 | 136  | 1197753  | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 15.50 | 164  | 615901   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 18.21 | 188  | 1230906  | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 22.29 | 240  | 1102666  | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.99 | 264  | 904116   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                        |       |     |         |       |       |      |
|------------------------|-------|-----|---------|-------|-------|------|
| 7) Acenaphthylene-d8   | 15.20 | 160 | 1220676 | 19.13 | ng/ul | 0.00 |
| 10) Fluorene-d10       | 16.47 | 176 | 800667  | 18.04 | ng/ul | 0.00 |
| 14) Anthracene-d10     | 18.30 | 188 | 1149193 | 19.24 | ng/ul | 0.00 |
| 18) Pyrene-d10         | 20.52 | 212 | 1137638 | 21.27 | ng/ul | 0.00 |
| 25) Benzo(a)pyrene-d12 | 24.82 | 264 | 838147  | 17.46 | ng/ul | 0.00 |

## Target Compounds

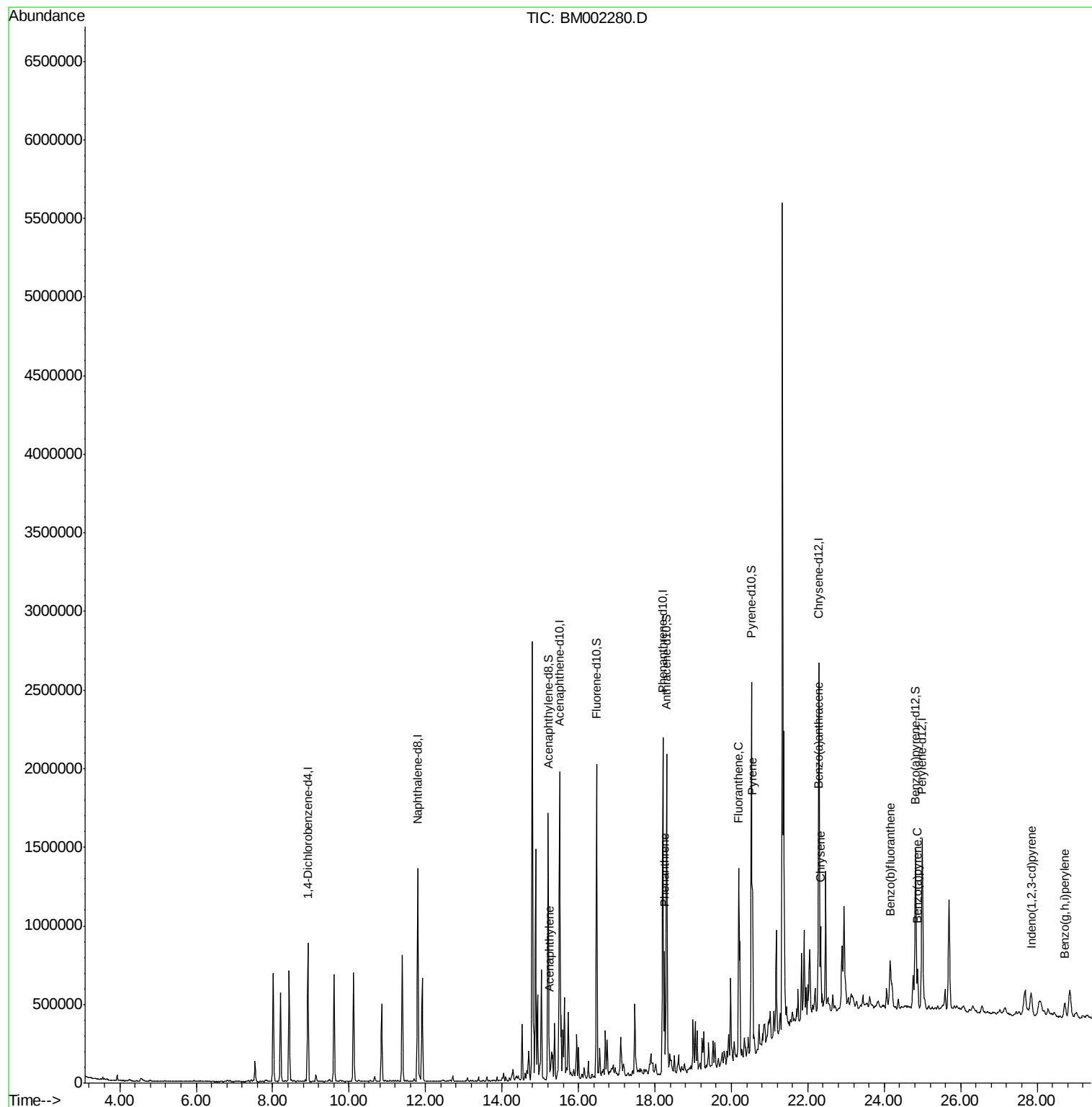
|                            |       |     |        |       |       | Qvalue |
|----------------------------|-------|-----|--------|-------|-------|--------|
| 8) Acenaphthylene          | 15.23 | 152 | 72461  | 1.09  | ng/ul | 99     |
| 13) Phenanthrene           | 18.25 | 178 | 449581 | 6.35  | ng/ul | 99     |
| 16) Fluoranthene           | 20.19 | 202 | 696484 | 8.88  | ng/ul | 98     |
| 19) Pyrene                 | 20.55 | 202 | 755396 | 10.60 | ng/ul | 99     |
| 20) Benzo(a)anthracene     | 22.27 | 228 | 240800 | 3.58  | ng/ul | 99     |
| 21) Chrysene               | 22.33 | 228 | 325118 | 5.10  | ng/ul | 97     |
| 23) Benzo(b)fluoranthene   | 24.16 | 252 | 310150 | 5.52  | ng/ul | 97     |
| 26) Benzo(a)pyrene         | 24.87 | 252 | 205404 | 3.82  | ng/ul | 96     |
| 27) Indeno(1,2,3-cd)pyrene | 27.84 | 276 | 132055 | 2.14  | ng/ul | 94     |
| 29) Benzo(g,h,i)perylene   | 28.73 | 276 | 120872 | 2.32  | ng/ul | 94     |

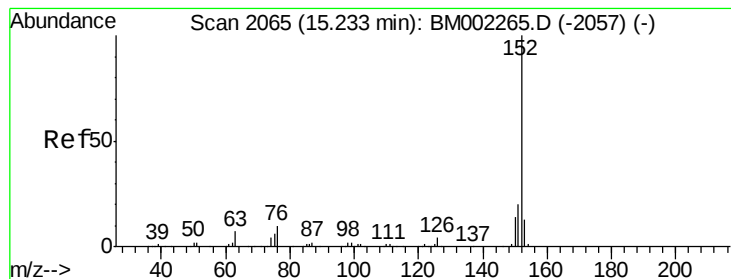
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM080715MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sun Aug 09 05:31:20 2015  
Response via : Initial Calibration





#8

Acenaphthylene

Concen: 1.09 ng/ul

RT: 15.23 min Scan# 2065

Delta R.T. 0.00 min

Lab File: BM002280.D

Acq: 08 Aug 2015 17:01

Instrument :

BNA\_M

ClientSampleId :

D9C62

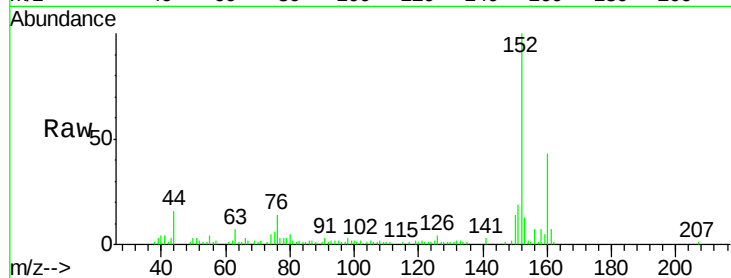
Tgt Ion:152 Resp: 72461

Ion Ratio Lower Upper

152 100

151 19.3 15.9 23.9

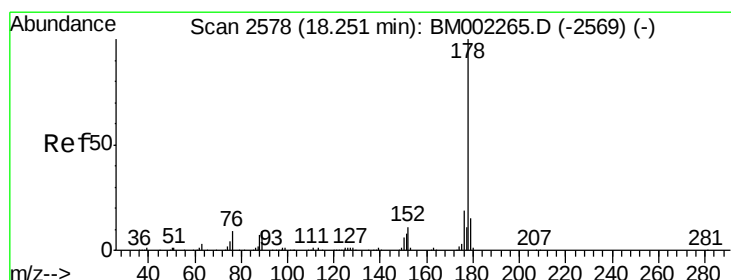
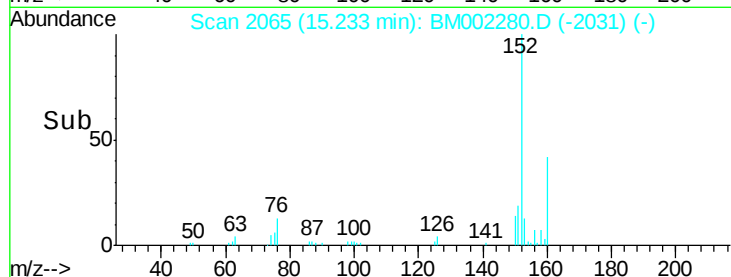
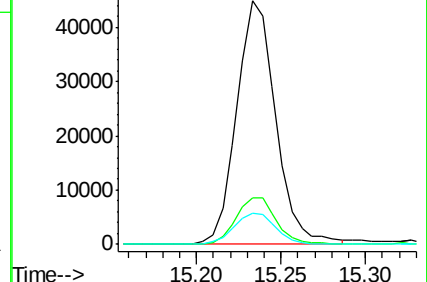
153 12.6 10.6 15.8



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#13

Phenanthrene

Concen: 6.35 ng/ul

RT: 18.25 min Scan# 2578

Delta R.T. -0.00 min

Lab File: BM002280.D

Acq: 08 Aug 2015 17:01

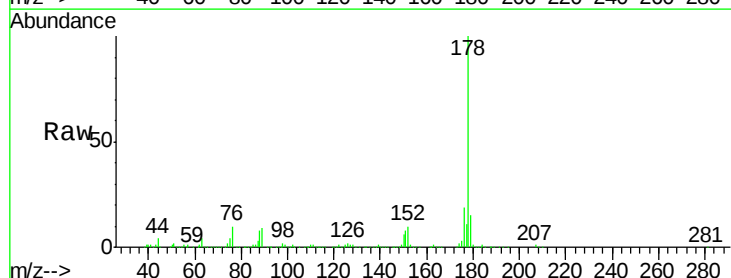
Tgt Ion:178 Resp: 449581

Ion Ratio Lower Upper

178 100

179 14.9 12.3 18.5

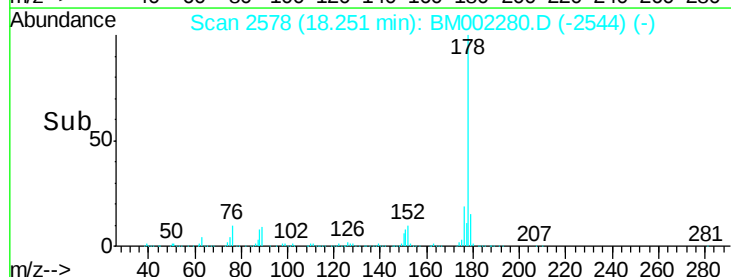
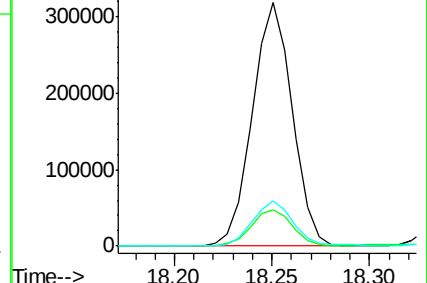
176 18.8 15.3 22.9

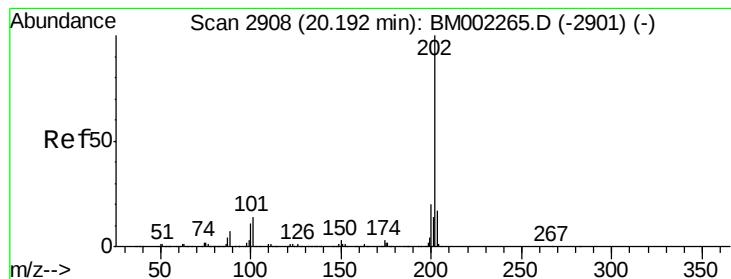


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#16

Fluoranthene

Concen: 8.88 ng/ul

RT: 20.19 min Scan# 2908

Delta R.T. -0.00 min

Lab File: BM002280.D

Acq: 08 Aug 2015 17:01

Instrument :

BNA\_M

ClientSampleId :

D9C62

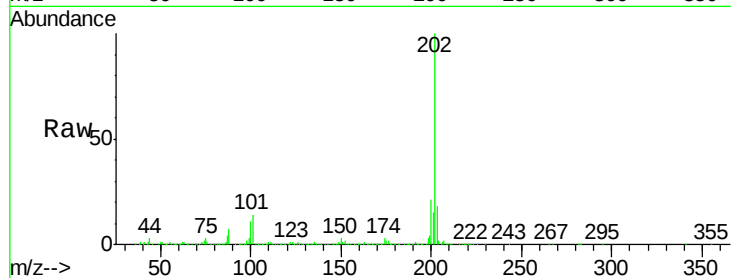
Tgt Ion:202 Resp: 696484

Ion Ratio Lower Upper

202 100

101 14.4 10.6 15.8

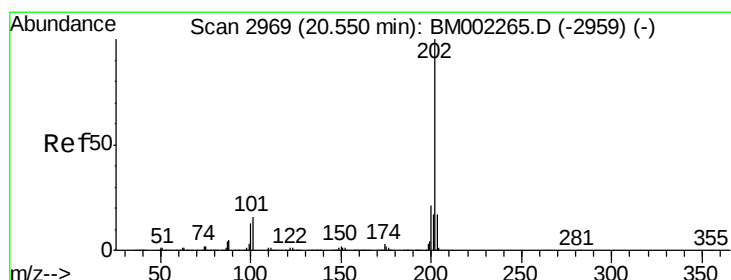
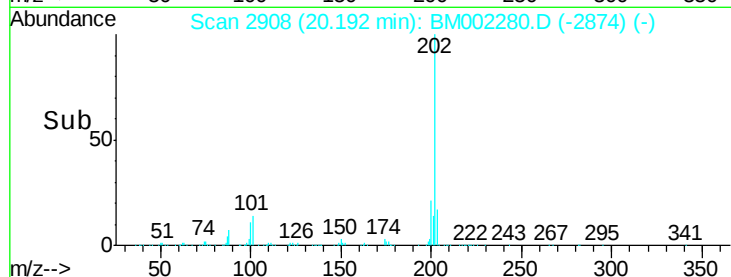
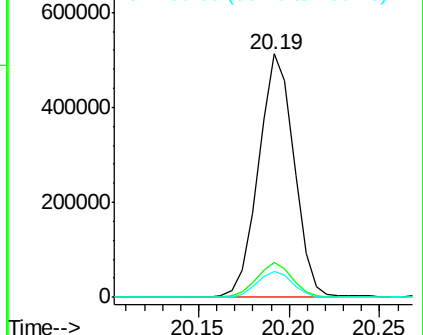
100 10.7 8.2 12.4



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



#19

Pyrene

Concen: 10.60 ng/ul

RT: 20.55 min Scan# 2969

Delta R.T. -0.00 min

Lab File: BM002280.D

Acq: 08 Aug 2015 17:01

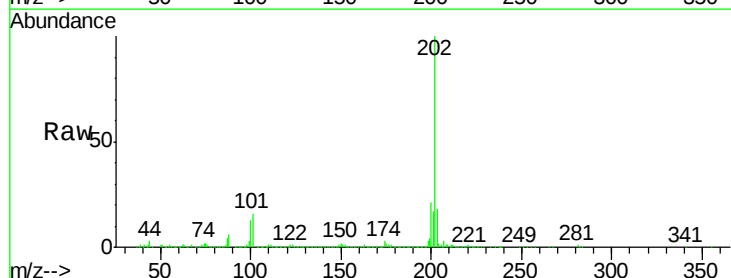
Tgt Ion:202 Resp: 755396

Ion Ratio Lower Upper

202 100

101 16.5 13.0 19.6

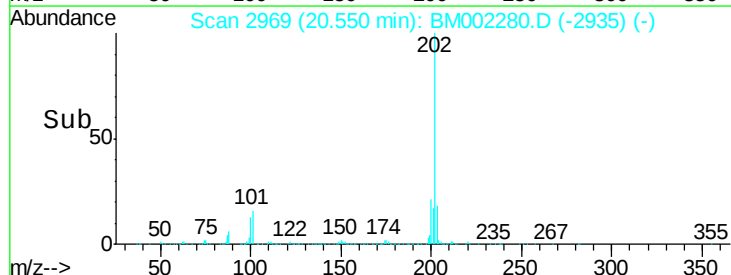
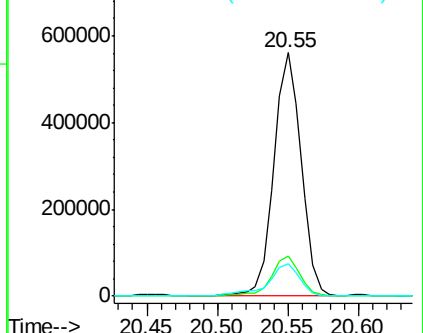
100 13.4 11.0 16.4

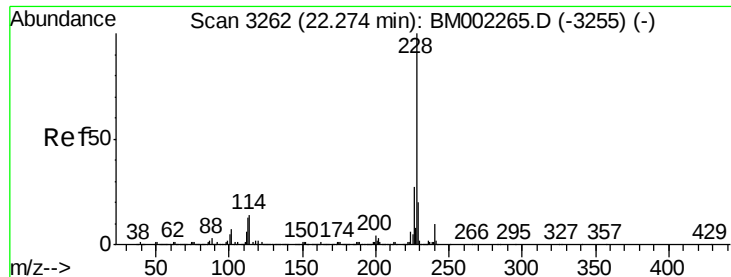


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#20

Benzo(a)anthracene

Concen: 3.58 ng/ul

RT: 22.27 min Scan# 3262

Delta R.T. -0.00 min

Lab File: BM002280.D

Acq: 08 Aug 2015 17:01

Instrument :

BNA\_M

ClientSampleId :

D9C62

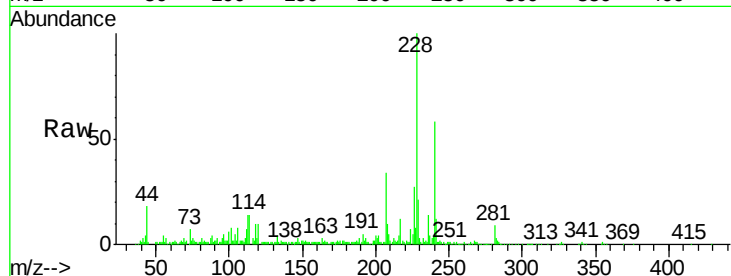
Tgt Ion:228 Resp: 240800

Ion Ratio Lower Upper

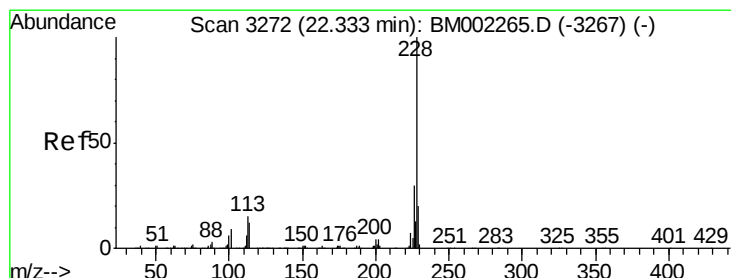
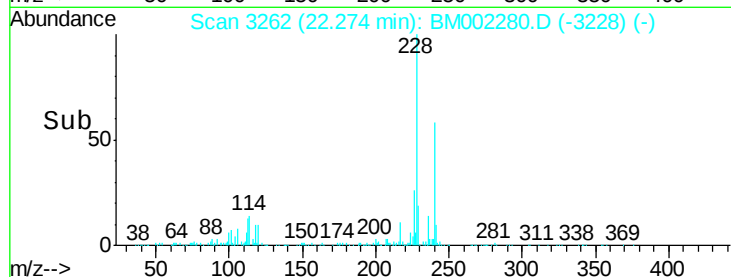
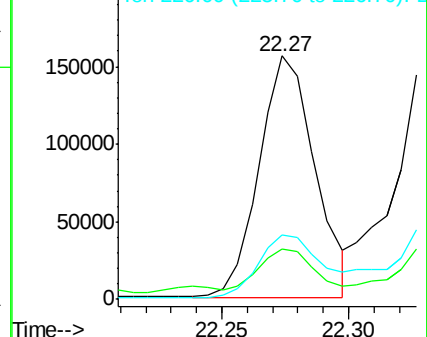
228 100

229 20.9 15.7 23.5

226 26.6 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: 5.10 ng/ul

RT: 22.33 min Scan# 3272

Delta R.T. 0.00 min

Lab File: BM002280.D

Acq: 08 Aug 2015 17:01

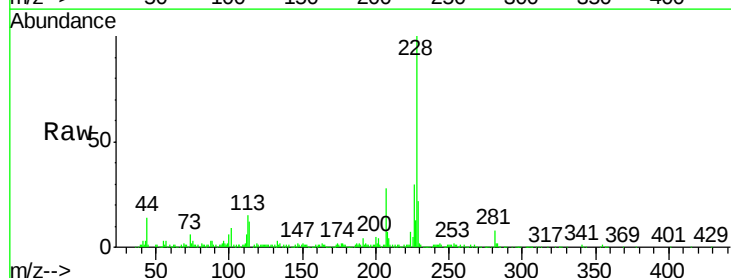
Tgt Ion:228 Resp: 325118

Ion Ratio Lower Upper

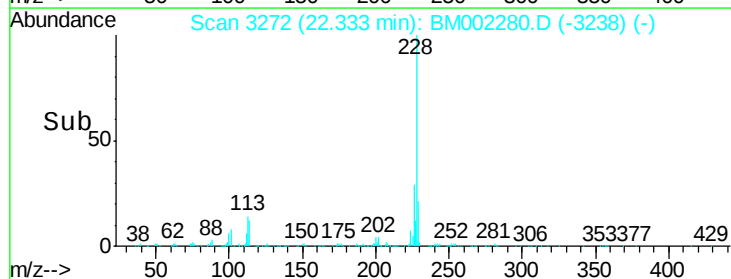
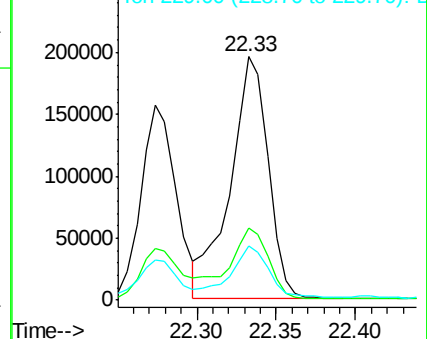
228 100

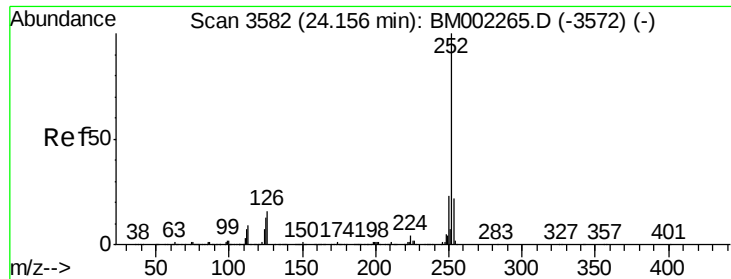
226 29.7 23.4 35.0

229 22.3 15.5 23.3



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: 5.52 ng/ul

RT: 24.16 min Scan# 3582

Delta R.T. 0.00 min

Lab File: BM002280.D

Acq: 08 Aug 2015 17:01

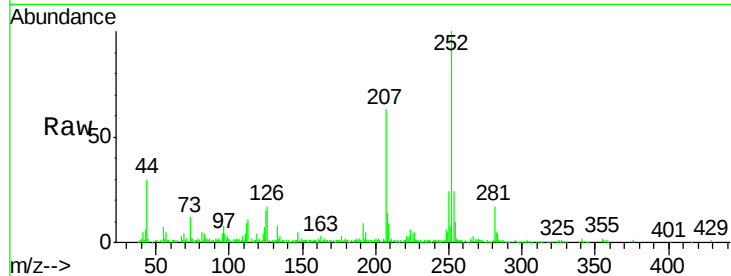
Instrument :

BNA\_M

ClientSampled :

D9C62

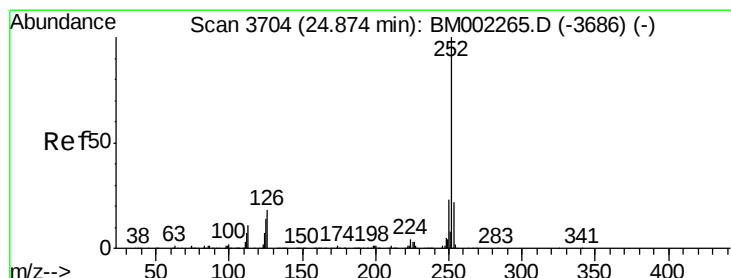
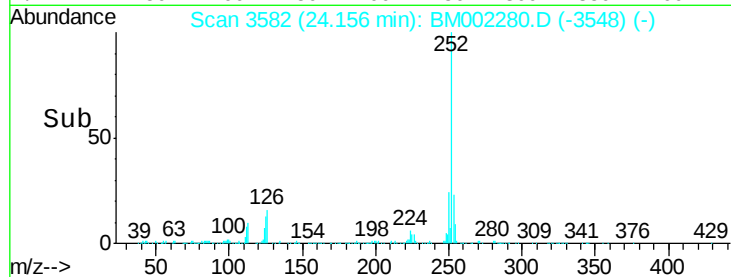
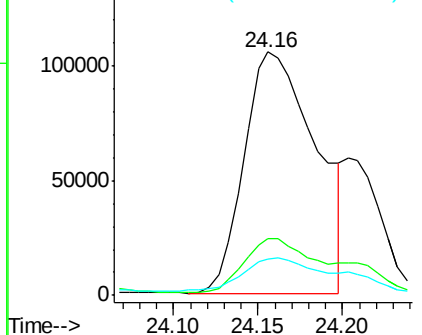
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 252   | Resp: | 310150 |
| Ion      | Ratio | Lower | Upper  |
| 252      | 100   |       |        |
| 253      | 23.6  | 17.9  | 26.9   |
| 125      | 14.8  | 10.3  | 15.5   |



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: 3.82 ng/ul

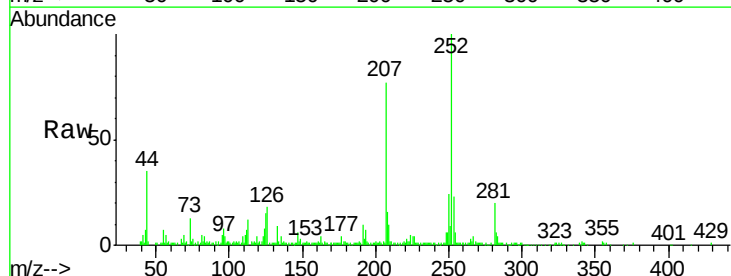
RT: 24.87 min Scan# 3704

Delta R.T. 0.00 min

Lab File: BM002280.D

Acq: 08 Aug 2015 17:01

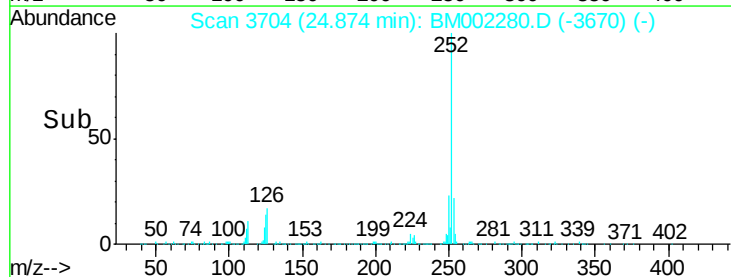
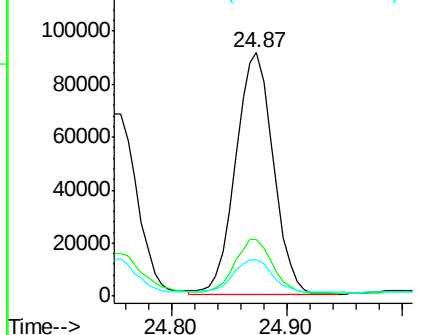
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 252   | Resp: | 205404 |
| Ion      | Ratio | Lower | Upper  |
| 252      | 100   |       |        |
| 253      | 23.3  | 17.3  | 25.9   |
| 125      | 15.1  | 11.0  | 16.6   |

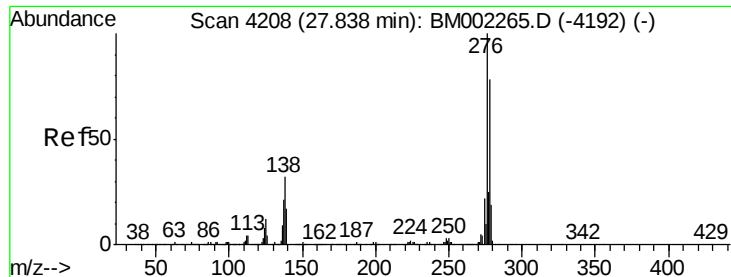


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

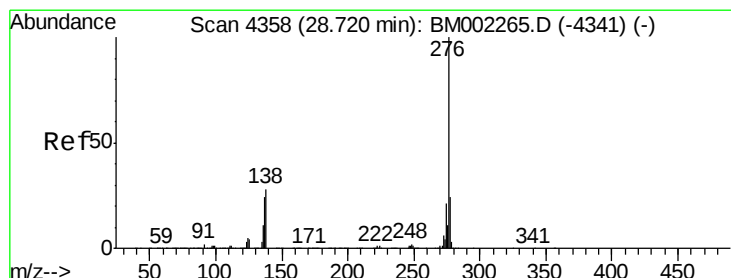
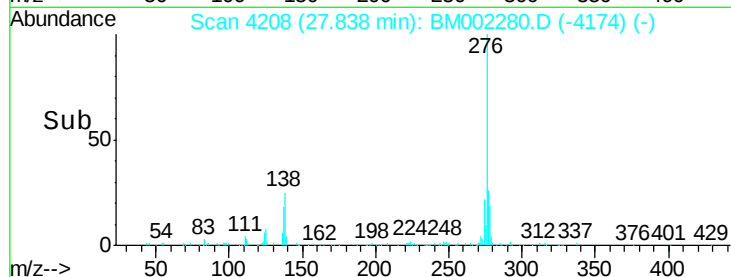
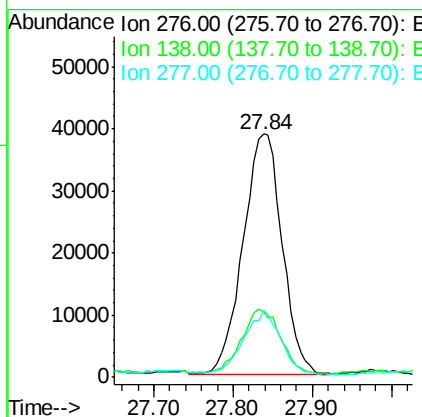
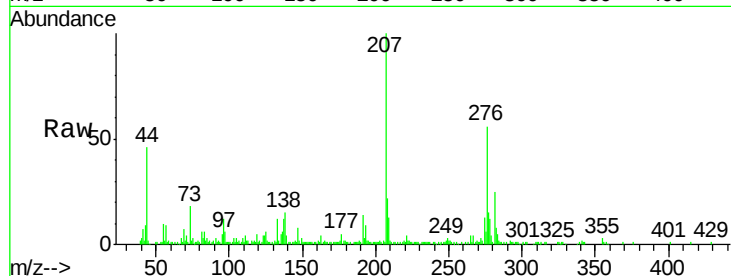




#27  
 Indeno(1,2,3-cd)pyrene  
 Concen: 2.14 ng/ul  
 RT: 27.84 min Scan# 4208  
 Delta R.T. 0.00 min  
 Lab File: BM002280.D  
 Acq: 08 Aug 2015 17:01

Instrument :  
 BNA\_M  
 ClientSampleId :  
 D9C62

Tgt Ion: 276 Resp: 132055  
 Ion Ratio Lower Upper  
 276 100  
 138 27.0 25.6 38.4  
 277 27.6 21.0 31.4



#29  
 Benzo(g,h,i)perylene  
 Concen: 2.32 ng/ul  
 RT: 28.73 min Scan# 4359  
 Delta R.T. 0.01 min  
 Lab File: BM002280.D  
 Acq: 08 Aug 2015 17:01

Tgt Ion: 276 Resp: 120872  
 Ion Ratio Lower Upper  
 276 100  
 138 28.8 20.5 30.7  
 277 26.1 19.0 28.6

