

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM122115\  
 Data File : BM003691.D  
 Acq On : 22 Dec 2015 00:06  
 Operator : UM/SJ  
 Sample : G4867-04DL 100X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 G9DA1DL

Quant Time: Dec 22 02:47:44 2015  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM121915.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Dec 22 02:40:18 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.69  | 152  | 29029    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.48 | 136  | 120679   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.34 | 164  | 65017    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.09 | 188  | 144482   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.29 | 240  | 159354   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.54 | 264  | 156605   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |      |      |       |      |
|--------------------------------|-------|-----|------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 0.00  | 96  | 0    | 0.00 | ng/uL |      |
| 5) Phenol-d5                   | 0.00  | 99  | 0    | 0.00 | ng/ul |      |
| 7) Bis-(2-Chloroethyl)ether-d  | 0.00  | 67  | 0    | 0.00 | ng/ul |      |
| 9) 2-Chlorophenol-d4           | 0.00  | 132 | 0    | 0.00 | ng/ul |      |
| 13) 4-Methylphenol-d8          | 0.00  | 113 | 0    | 0.00 | ng/ul |      |
| 19) Nitrobenzene-d5            | 0.00  | 128 | 0    | 0.00 | ng/ul |      |
| 22) 2-Nitrophenol-d4           | 0.00  | 143 | 0    | 0.00 | ng/ul |      |
| 26) 2,4-Dichlorophenol-d3      | 0.00  | 165 | 0    | 0.00 | ng/ul |      |
| 29) 4-Chloroaniline-d4         | 0.00  | 131 | 0    | 0.00 | ng/ul |      |
| 44) Dimethylphthalate-d6       | 13.76 | 166 | 1689 | 0.31 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.04 | 160 | 2007 | 0.33 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 0.00  | 143 | 0    | 0.00 | ng/ul |      |
| 58) Fluorene-d10               | 15.34 | 176 | 1942 | 0.44 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 0.00  | 200 | 0    | 0.00 | ng/ul |      |
| 71) Anthracene-d10             | 17.19 | 188 | 2469 | 0.38 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.49 | 212 | 2641 | 0.38 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 23.39 | 264 | 2573 | 0.33 | ng/ul | 0.00 |

## Target Compounds

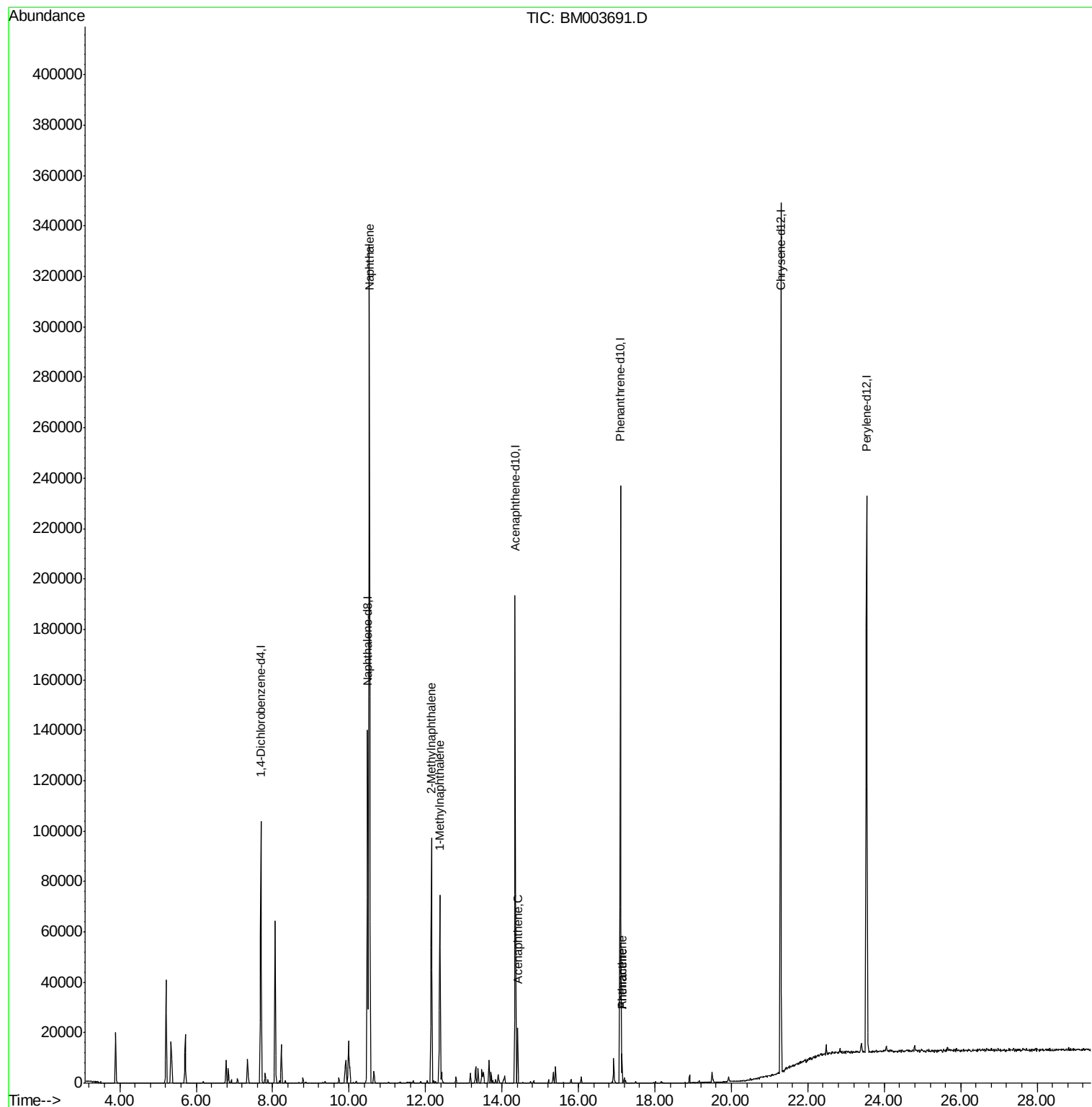
|                         |       |     |        |       |       | Qvalue |
|-------------------------|-------|-----|--------|-------|-------|--------|
| 28) Naphthalene         | 10.53 | 128 | 285562 | 45.93 | ng/ul | 99     |
| 34) 2-Methylnaphthalene | 12.15 | 142 | 47662  | 10.26 | ng/ul | 99     |
| 35) 1-Methylnaphthalene | 12.37 | 142 | 34218  | 7.76  | ng/ul | 99     |
| 50) Acenaphthene        | 14.41 | 153 | 10019  | 2.24  | ng/ul | 96     |
| 70) Phenanthrene        | 17.14 | 178 | 8434   | 1.06  | ng/ul | 98     |
| 72) Anthracene          | 17.14 | 178 | 8434   | 1.03  | ng/ul | 99     |

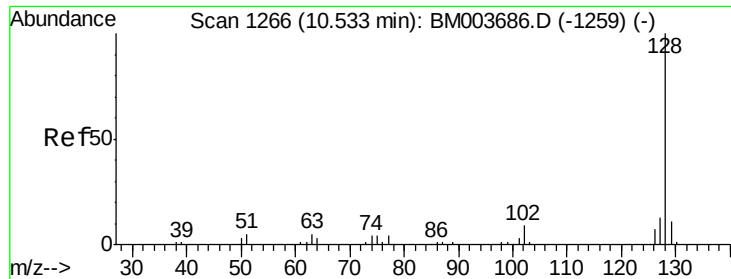
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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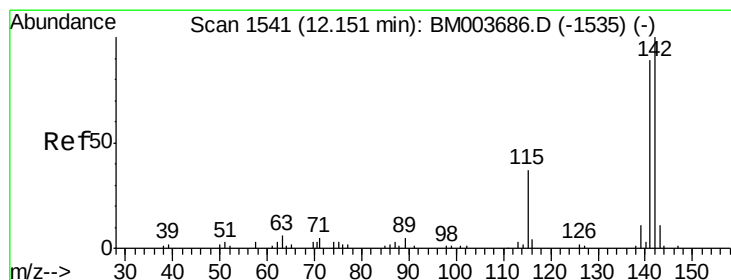
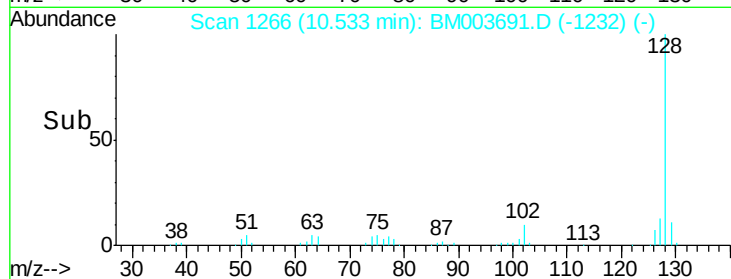
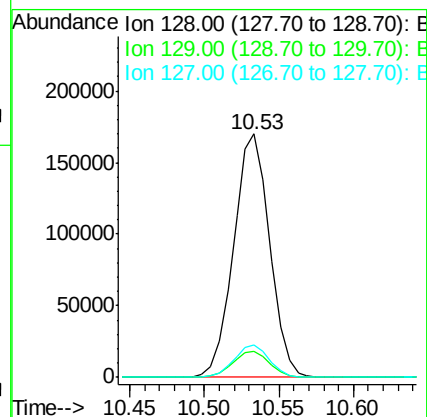
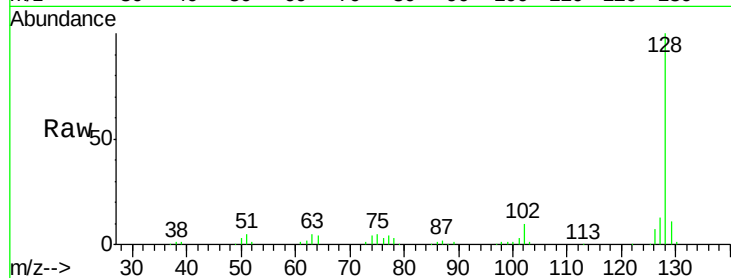




#28  
Naphthalene  
Concen: 45.93 ng/ul  
RT: 10.53 min Scan# 1266  
Delta R.T. 0.00 min  
Lab File: BM003691.D  
Acq: 22 Dec 2015 00:06

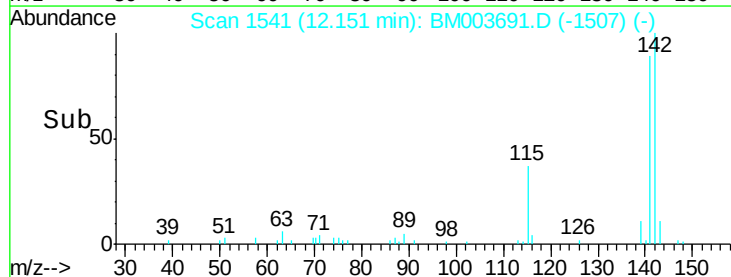
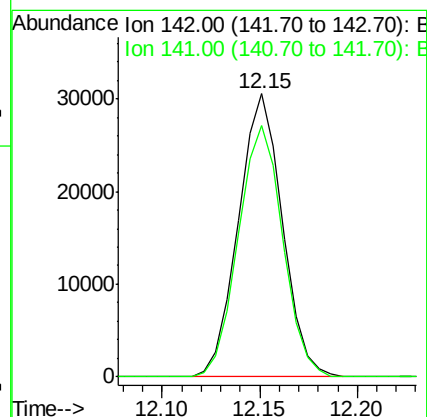
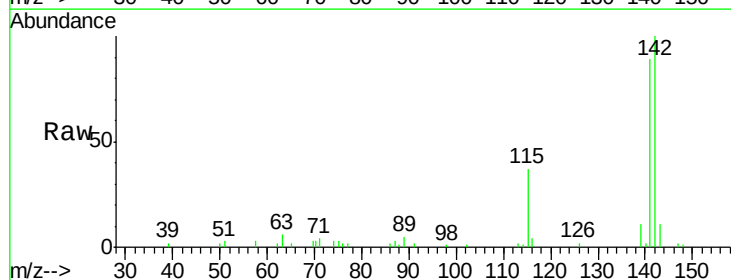
Instrument :  
BNA\_M  
ClientSampleId :  
G9DA1DL

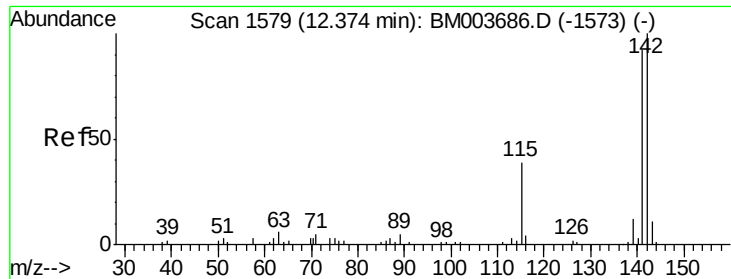
Tgt Ion:128 Resp: 285562  
Ion Ratio Lower Upper  
128 100  
129 10.8 8.8 13.2  
127 13.4 10.5 15.7



#34  
2-Methylnaphthalene  
Concen: 10.26 ng/ul  
RT: 12.15 min Scan# 1541  
Delta R.T. 0.00 min  
Lab File: BM003691.D  
Acq: 22 Dec 2015 00:06

Tgt Ion:142 Resp: 47662  
Ion Ratio Lower Upper  
142 100  
141 88.6 71.6 107.4

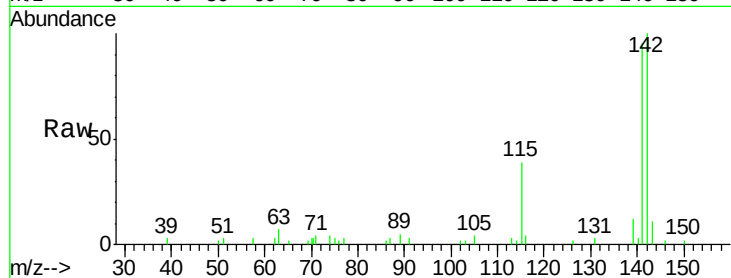




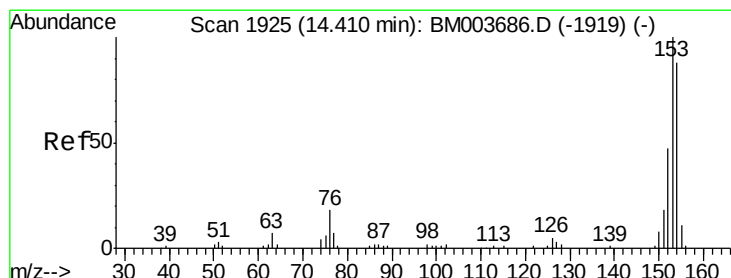
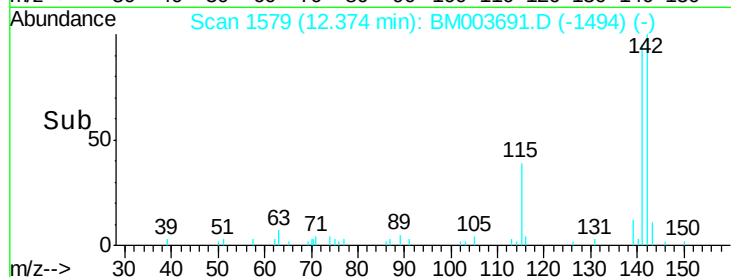
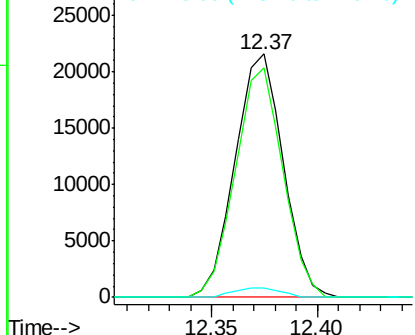
#35  
 1-Methylnaphthalene  
 Concen: 7.76 ng/ul  
 RT: 12.37 min Scan# 1579  
 Delta R.T. 0.00 min  
 Lab File: BM003691.D  
 Acq: 22 Dec 2015 00:06

Instrument :  
 BNA\_M  
 ClientSampleId :  
 G9DA1DL

Tgt Ion:142 Resp: 34218  
 Ion Ratio Lower Upper  
 142 100  
 141 94.5 74.9 112.3  
 116 4.1 3.1 4.7

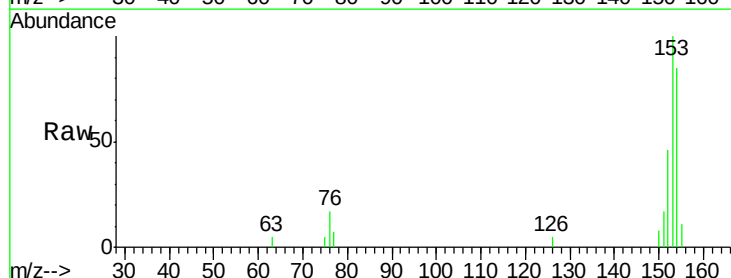


Abundance Ion 142.00 (141.70 to 142.70): E  
 Ion 141.00 (140.70 to 141.70): E  
 Ion 116.00 (115.70 to 116.70): E

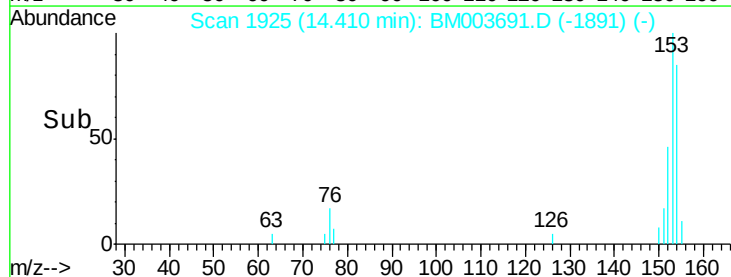
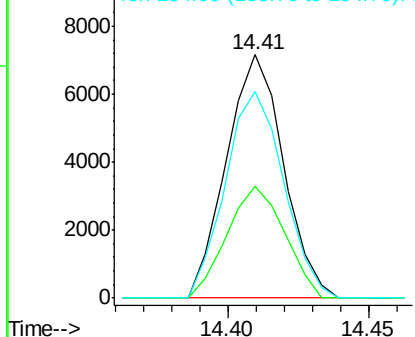


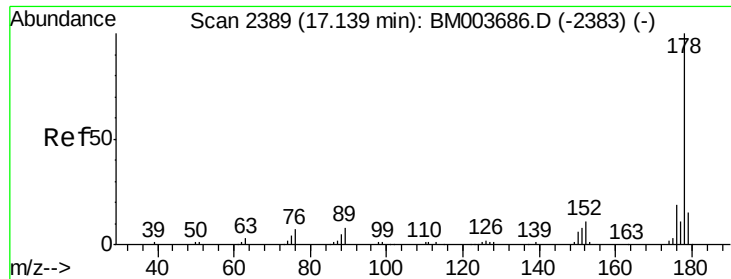
#50  
 Acenaphthene  
 Concen: 2.24 ng/ul  
 RT: 14.41 min Scan# 1925  
 Delta R.T. 0.00 min  
 Lab File: BM003691.D  
 Acq: 22 Dec 2015 00:06

Tgt Ion:153 Resp: 10019  
 Ion Ratio Lower Upper  
 153 100  
 152 46.0 38.3 57.5  
 154 84.9 71.8 107.8



Abundance Ion 153.00 (152.70 to 153.70): E  
 Ion 152.00 (151.70 to 152.70): E  
 Ion 154.00 (153.70 to 154.70): E





#70

Phenanthrene

Concen: 1.06 ng/ul

RT: 17.14 min Scan# 2389

Delta R.T. 0.00 min

Lab File: BM003691.D

Acq: 22 Dec 2015 00:06

Instrument :

BNA\_M

ClientSampleId :

G9DA1DL

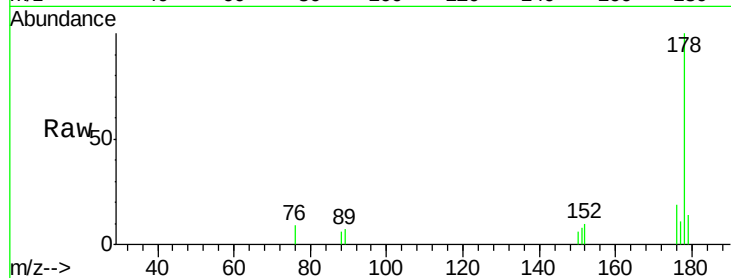
Tgt Ion:178 Resp: 8434

Ion Ratio Lower Upper

178 100

179 14.3 12.2 18.4

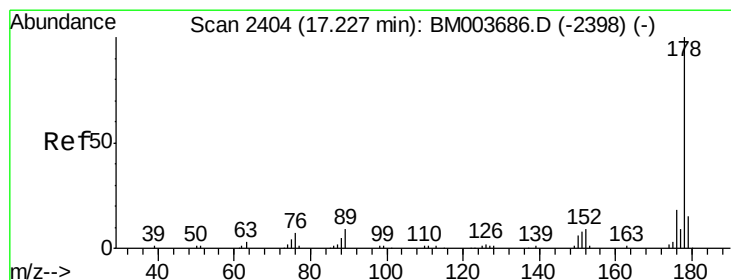
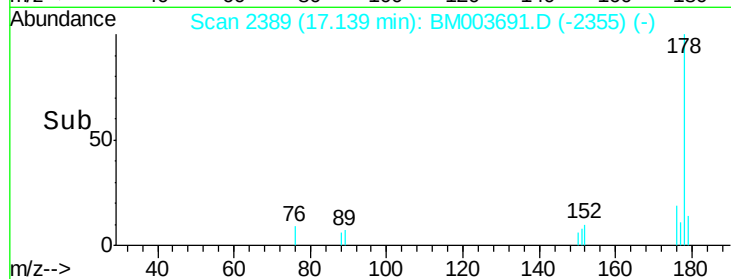
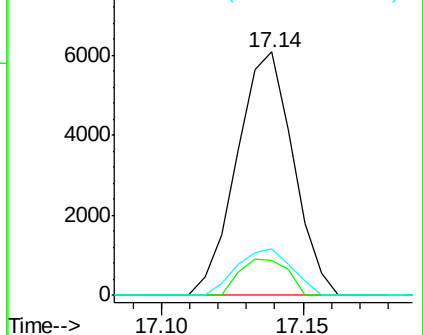
176 18.9 15.6 23.4



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



#72

Anthracene

Concen: 1.03 ng/ul

RT: 17.14 min Scan# 2389

Delta R.T. -0.09 min

Lab File: BM003691.D

Acq: 22 Dec 2015 00:06

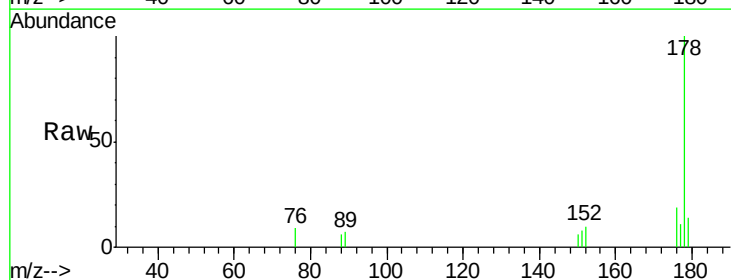
Tgt Ion:178 Resp: 8434

Ion Ratio Lower Upper

178 100

179 14.3 12.1 18.1

176 18.9 14.8 22.2



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

