

Data Path : Z:\HPCHEM1\BNA\_M\Data\BM042516\  
 Data File : BM005077.D  
 Acq On : 26 Apr 2016 12:21  
 Operator : UM/SJ  
 Sample : H2584-07  
 Misc :  
 ALS Vial : 36 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BC7P9

Quant Time: Apr 26 12:52:45 2016  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM042516.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Apr 26 00:45:11 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.80  | 152  | 67852    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.59 | 136  | 329334   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.44 | 164  | 204682   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.19 | 188  | 472236   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.37 | 240  | 484304   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 23.66 | 264  | 371037   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.30  | 96  | 2496   | 1.87  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.97  | 99  | 53575  | 9.54  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.13  | 67  | 117852 | 36.91 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.33  | 132 | 139646 | 31.45 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.50  | 113 | 102768 | 21.60 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.96  | 128 | 81776  | 35.85 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.67  | 143 | 94401  | 37.10 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.21 | 165 | 174080 | 36.01 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.75 | 131 | 1267   | 0.22  | ng/ul | 0.02 |
| 43) Dimethylphthalate-d6       | 13.85 | 166 | 605215 | 37.44 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.13 | 160 | 721101 | 37.46 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.65 | 143 | 17614  | 6.23  | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.43 | 176 | 524149 | 36.90 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.55 | 200 | 94155  | 35.05 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.29 | 188 | 791684 | 37.39 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.58 | 212 | 885324 | 40.15 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 23.52 | 264 | 643999 | 38.74 | ng/ul | 0.00 |

## Target Compounds

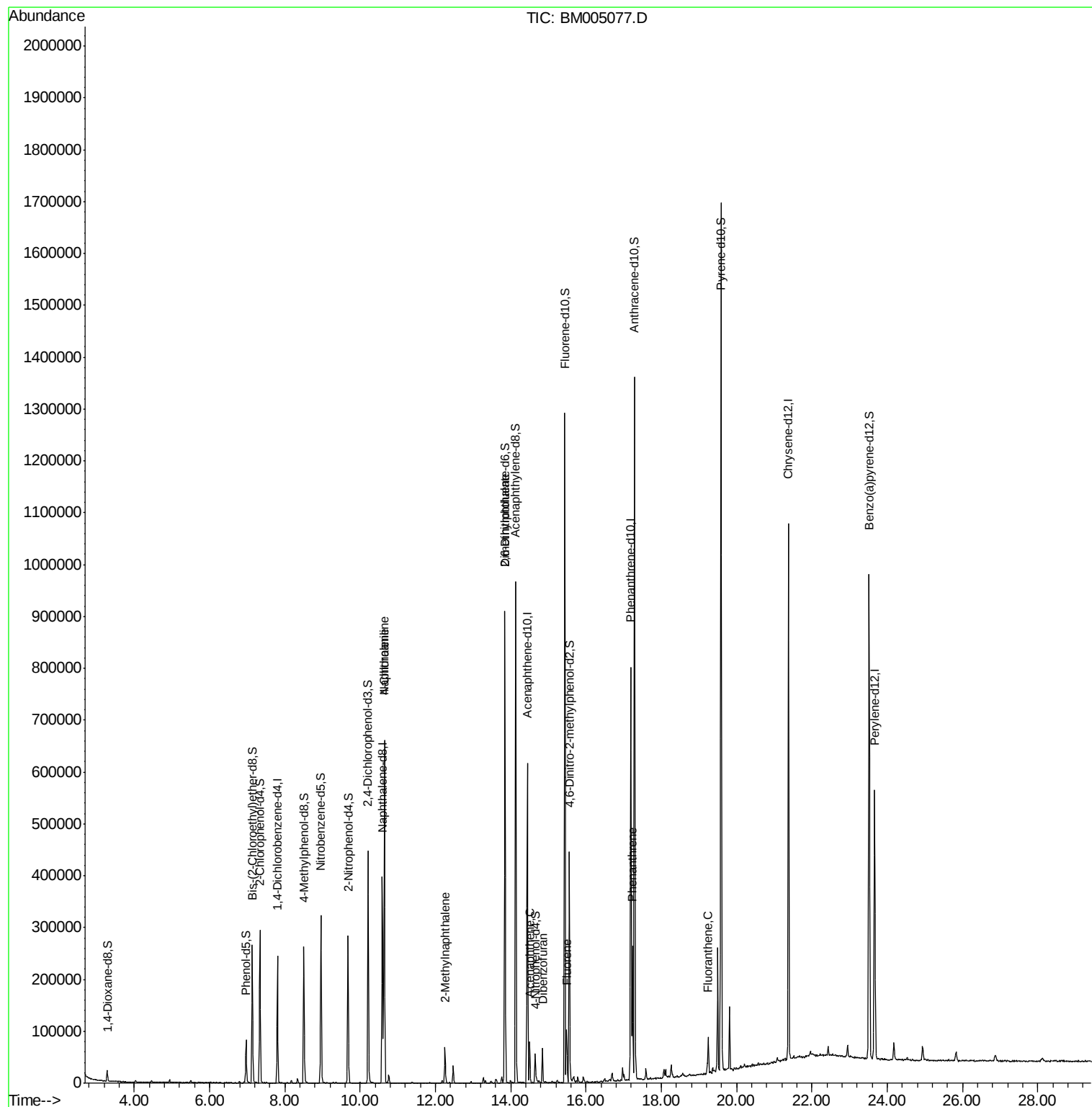
|                         |       |     |        |       |        | Qvalue |
|-------------------------|-------|-----|--------|-------|--------|--------|
| 28) Naphthalene         | 10.64 | 128 | 550947 | 33.17 | ng/ul  | 100    |
| 30) 4-Chloroaniline     | 10.64 | 127 | 71718  | 12.43 | ng/ul# | 11     |
| 34) 2-Methylnaphthalene | 12.25 | 142 | 34608  | 2.81  | ng/ul  | 96     |
| 45) 2,6-Dinitrotoluene  | 13.85 | 165 | 4004   | 1.28  | ng/ul# | 40     |
| 49) Acenaphthene        | 14.50 | 153 | 33795  | 2.52  | ng/ul  | 98     |
| 53) Dibenzofuran        | 14.84 | 168 | 41379  | 2.09  | ng/ul  | 98     |
| 58) Fluorene            | 15.49 | 166 | 44815  | 2.92  | ng/ul  | 99     |
| 69) Phenanthrene        | 17.23 | 178 | 150617 | 5.99  | ng/ul  | 99     |
| 74) Fluoranthene        | 19.24 | 202 | 37761  | 1.37  | ng/ul  | 97     |

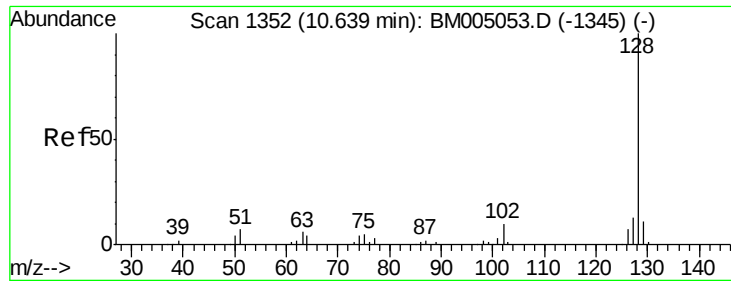
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_M\Data\BM042516\  
Data File : BM005077.D  
Acq On : 26 Apr 2016 12:21  
Operator : UM/SJ  
Sample : H2584-07  
Misc :  
ALS Vial : 36 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
BC7P9

Quant Time: Apr 26 12:52:45 2016  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM042516.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Apr 26 00:45:11 2016  
Response via : Initial Calibration

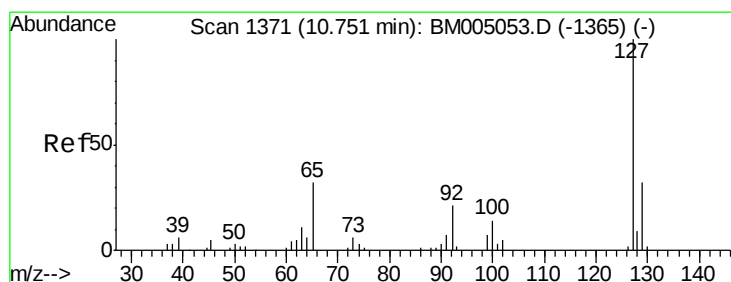
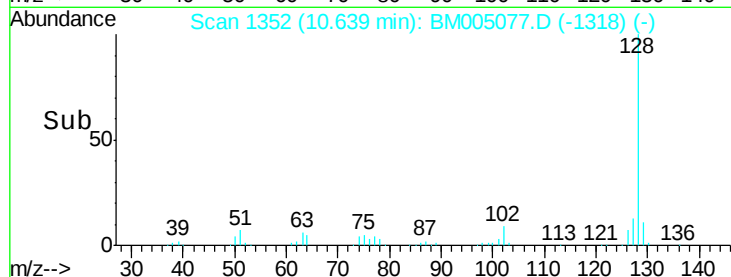
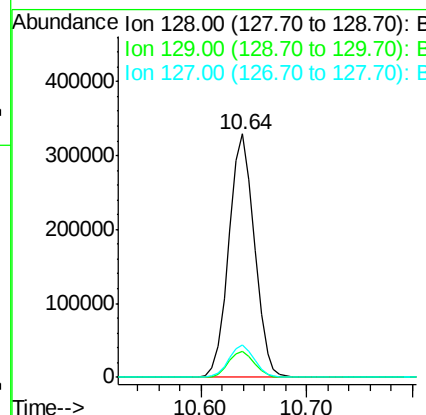
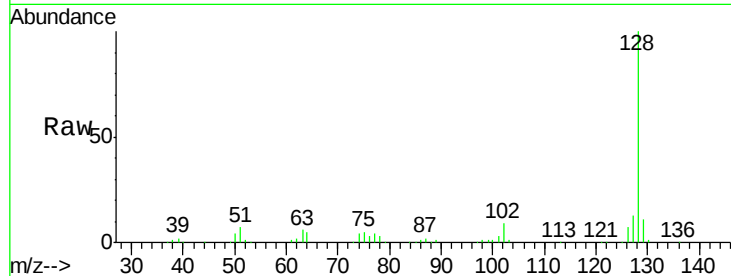




#28  
Naphthalene  
Concen: 33.17 ng/ul  
RT: 10.64 min Scan# 1352  
Delta R.T. 0.00 min  
Lab File: BM005077.D  
Acq: 26 Apr 2016 12:21

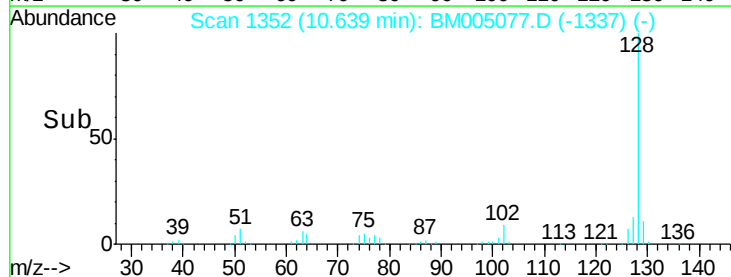
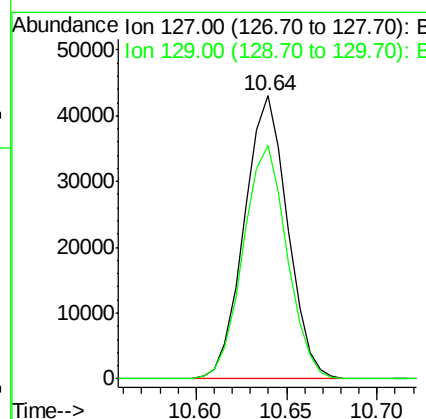
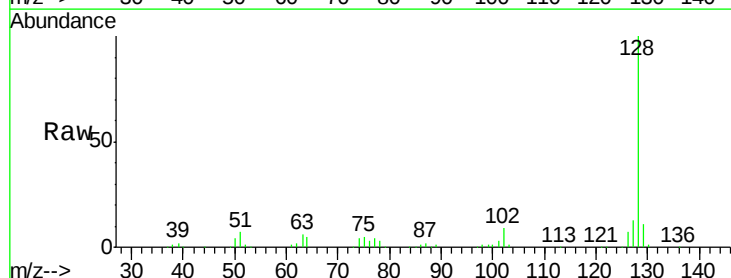
Instrument :  
BNA\_M  
ClientSampleId :  
BC7P9

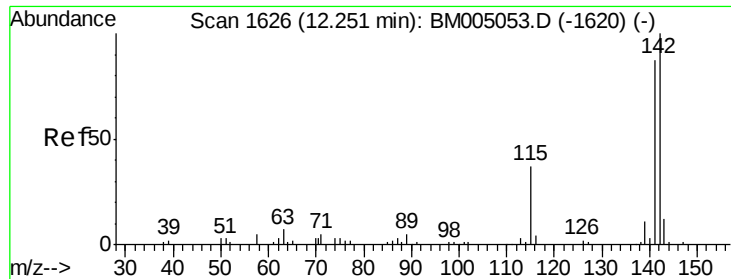
Tgt Ion:128 Resp: 550947  
Ion Ratio Lower Upper  
128 100  
129 10.8 8.7 13.1  
127 13.1 10.6 15.8



#30  
4-Chloroaniline  
Concen: 12.43 ng/ul  
RT: 10.64 min Scan# 1352  
Delta R.T. -0.11 min  
Lab File: BM005077.D  
Acq: 26 Apr 2016 12:21

Tgt Ion:127 Resp: 71718  
Ion Ratio Lower Upper  
127 100  
129 82.3 26.0 39.0#

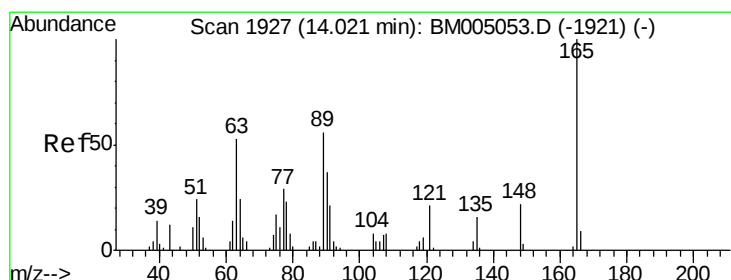
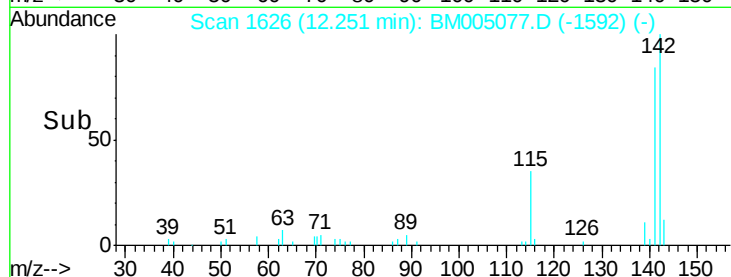
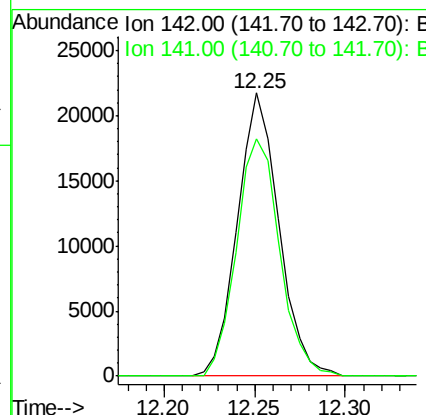
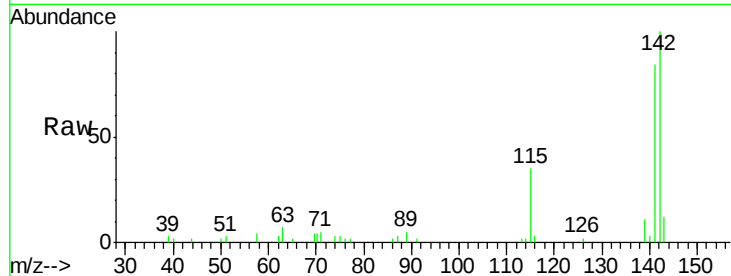




#34  
 2-Methylnaphthalene  
 Concen: 2.81 ng/ul  
 RT: 12.25 min Scan# 1626  
 Delta R.T. 0.00 min  
 Lab File: BM005077.D  
 Acq: 26 Apr 2016 12:21

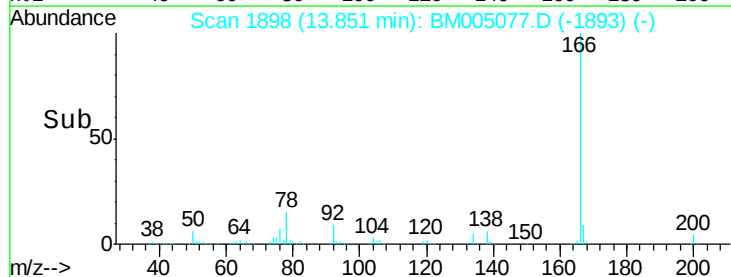
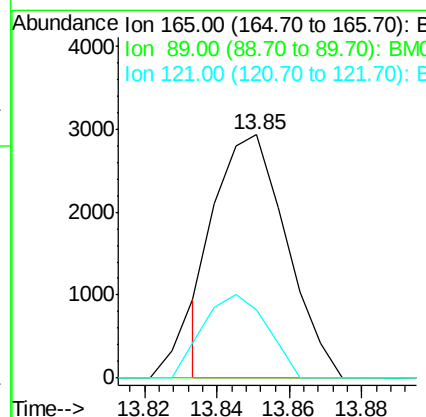
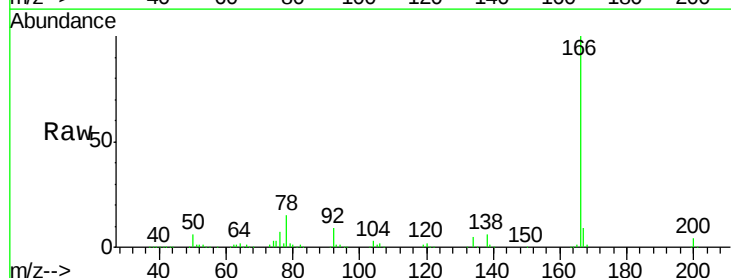
Instrument :  
 BNA\_M  
 ClientSampleId :  
 BC7P9

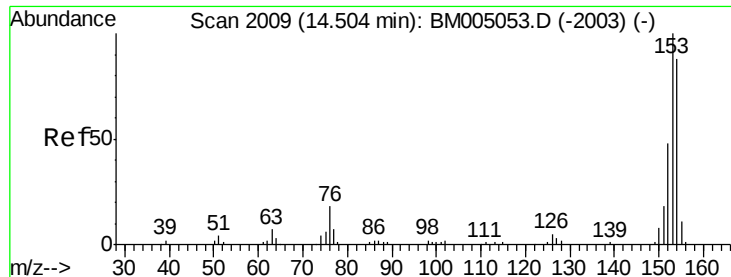
Tgt Ion:142 Resp: 34608  
 Ion Ratio Lower Upper  
 142 100  
 141 83.9 70.3 105.5



#45  
 2,6-Dinitrotoluene  
 Concen: 1.28 ng/ul  
 RT: 13.85 min Scan# 1898  
 Delta R.T. -0.17 min  
 Lab File: BM005077.D  
 Acq: 26 Apr 2016 12:21

Tgt Ion:165 Resp: 4004  
 Ion Ratio Lower Upper  
 165 100  
 89 0.0 43.1 64.7#  
 121 28.0 16.0 24.0#





#49

Acenaphthene

Concen: 2.52 ng/ul

RT: 14.50 min Scan# 2009

Delta R.T. 0.00 min

Lab File: BM005077.D

Acq: 26 Apr 2016 12:21

Instrument :

BNA\_M

ClientSampleId :

BC7P9

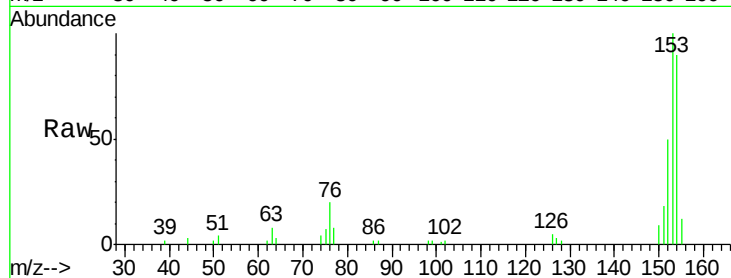
Tgt Ion:153 Resp: 33795

Ion Ratio Lower Upper

153 100

152 50.3 37.7 56.5

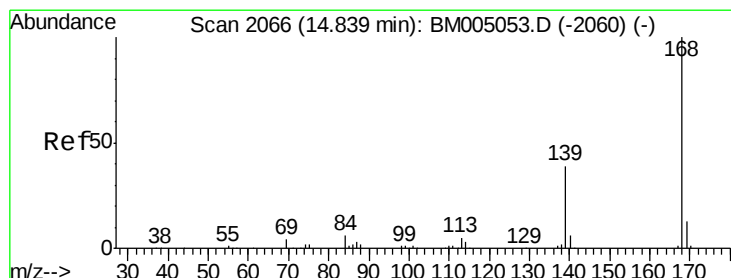
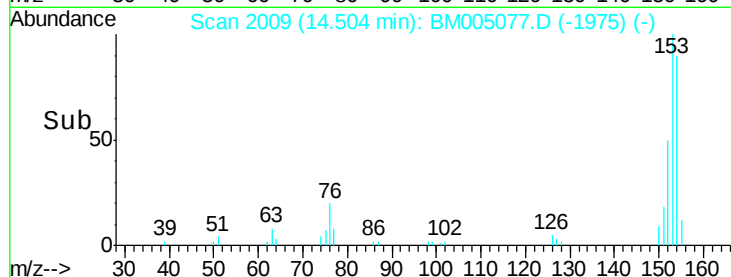
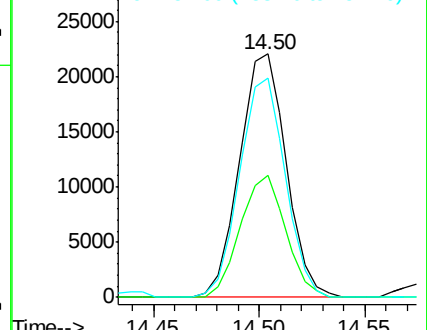
154 90.2 71.4 107.2



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



#53

Dibenzofuran

Concen: 2.09 ng/ul

RT: 14.84 min Scan# 2066

Delta R.T. 0.00 min

Lab File: BM005077.D

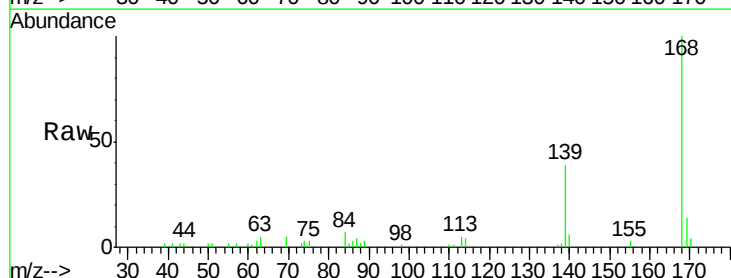
Acq: 26 Apr 2016 12:21

Tgt Ion:168 Resp: 41379

Ion Ratio Lower Upper

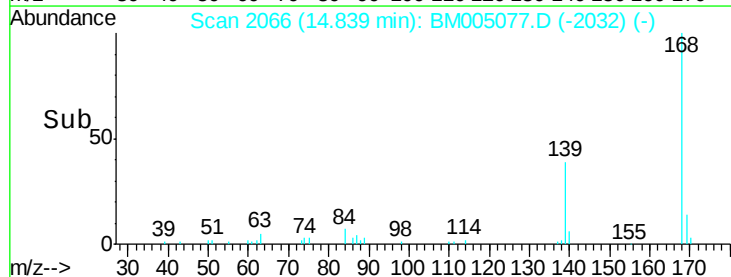
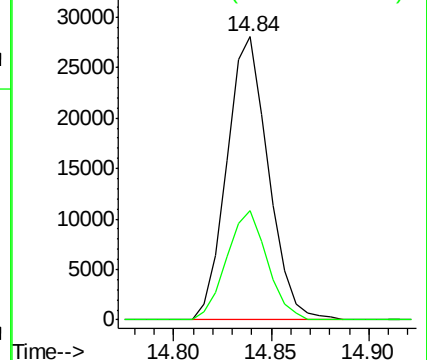
168 100

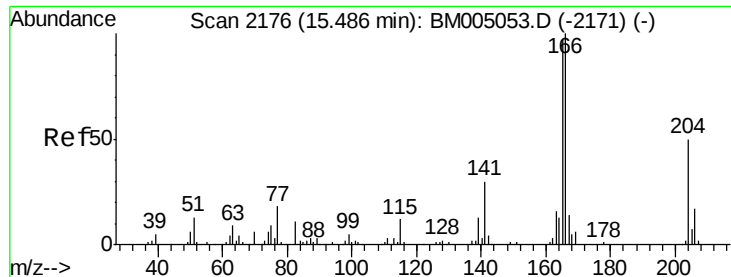
139 38.7 29.9 44.9



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 2.92 ng/ul

RT: 15.49 min Scan# 2176

Delta R.T. 0.00 min

Lab File: BM005077.D

Acq: 26 Apr 2016 12:21

Instrument :

BNA\_M

ClientSampleId :

BC7P9

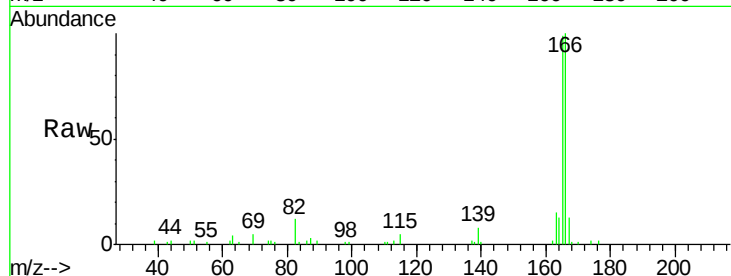
Tgt Ion:166 Resp: 44815

Ion Ratio Lower Upper

166 100

165 98.7 77.7 116.5

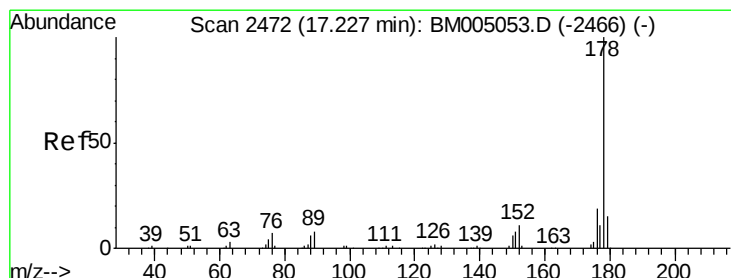
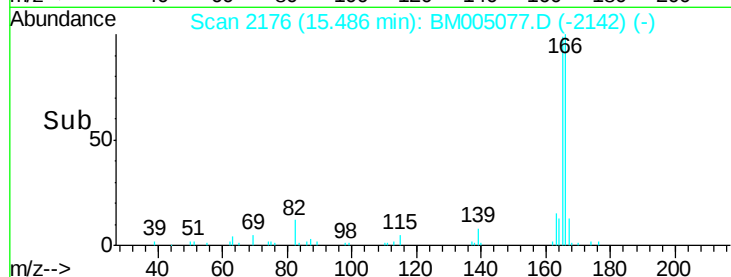
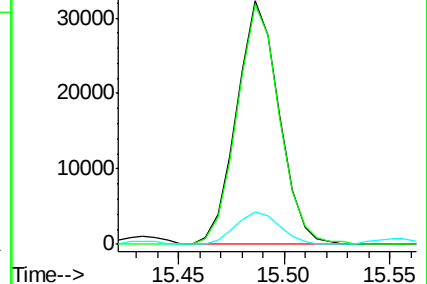
167 13.5 10.9 16.3



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#69

Phenanthrene

Concen: 5.99 ng/ul

RT: 17.23 min Scan# 2472

Delta R.T. 0.00 min

Lab File: BM005077.D

Acq: 26 Apr 2016 12:21

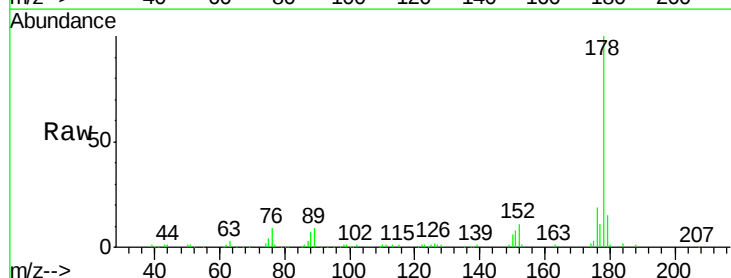
Tgt Ion:178 Resp: 150617

Ion Ratio Lower Upper

178 100

179 15.4 11.8 17.8

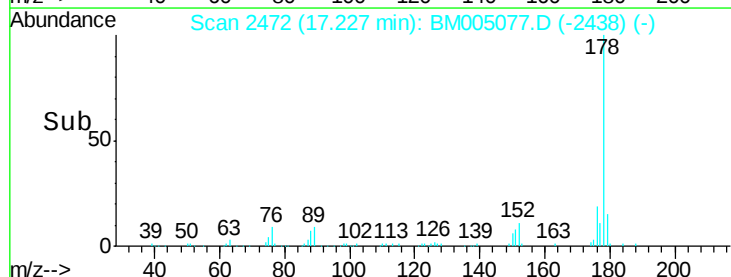
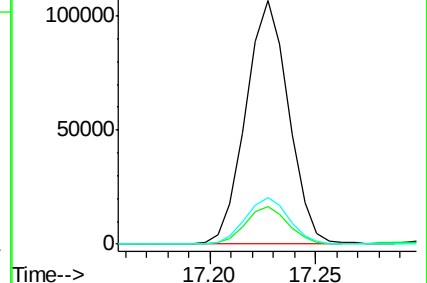
176 19.1 15.2 22.8

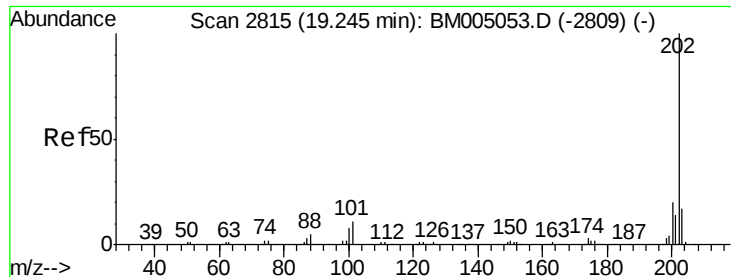


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

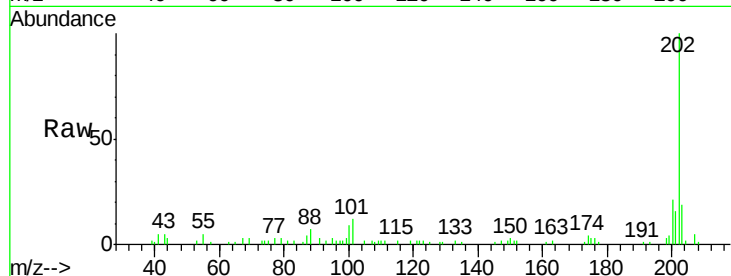




#74  
 Fluoranthene  
 Concen: 1.37 ng/ul  
 RT: 19.24 min Scan# 2815  
 Delta R.T. 0.00 min  
 Lab File: BM005077.D  
 Acq: 26 Apr 2016 12:21

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BC7P9

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 37761 |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 12.2  | 9.0   | 13.4  |
| 100      | 9.4   | 6.6   | 10.0  |



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

