

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG122615\  
 Data File : BG020562.D  
 Acq On : 27 Dec 2015 19:54  
 Operator : UM/SJ  
 Sample : G4846-09  
 Misc :  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N55

Quant Time: Dec 28 06:05:06 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG122415.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Dec 28 04:59:10 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.08  | 152  | 52099    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.90 | 136  | 248095   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.71 | 164  | 182477   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.46 | 188  | 457331   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.73 | 240  | 564998   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 25.01 | 264  | 531707   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.45  | 96  | 414    | 0.44  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.23  | 99  | 12688  | 3.04  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.40  | 67  | 29356  | 11.85 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.61  | 132 | 32188  | 10.04 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.78  | 113 | 24011  | 6.83  | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.25  | 128 | 22051  | 11.34 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.97  | 143 | 25828  | 11.68 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.52 | 165 | 43102  | 10.07 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 0.00  | 131 | 0d     | 0.00  | ng/ul |      |
| 44) Dimethylphthalate-d6       | 14.11 | 166 | 171924 | 11.43 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.41 | 160 | 192742 | 11.06 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.92 | 143 | 5907   | 2.36  | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.70 | 176 | 158760 | 11.67 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.82 | 200 | 28976  | 9.56  | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.56 | 188 | 257494 | 12.02 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.84 | 212 | 303307 | 12.40 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.78 | 264 | 336886 | 12.53 | ng/ul | 0.00 |

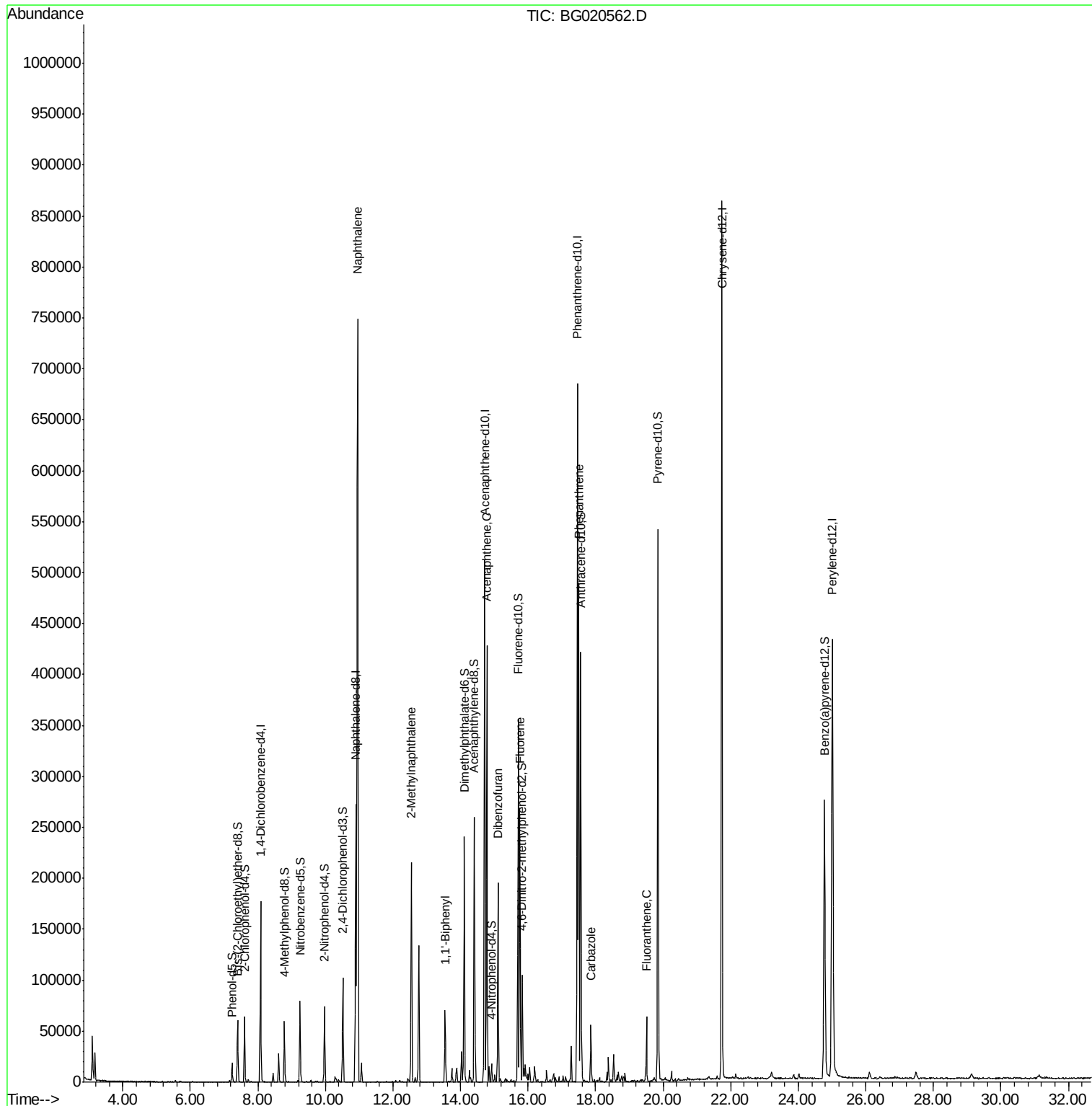
## Target Compounds

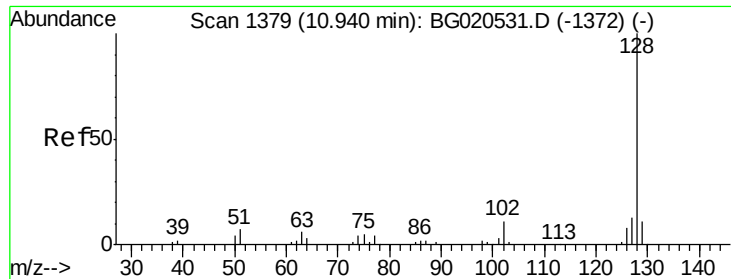
|                         |       |     |        |       |        | Qvalue |
|-------------------------|-------|-----|--------|-------|--------|--------|
| 28) Naphthalene         | 10.95 | 128 | 651490 | 49.40 | ng/ul  | 97     |
| 34) 2-Methylnaphthalene | 12.54 | 142 | 103159 | 10.57 | ng/ul  | 99     |
| 41) 1,1'-Biphenyl       | 13.54 | 154 | 39935  | 2.84  | ng/ul# | 96     |
| 50) Acenaphthene        | 14.78 | 153 | 183013 | 14.78 | ng/ul  | 99     |
| 54) Dibenzofuran        | 15.11 | 168 | 139034 | 7.55  | ng/ul  | 99     |
| 59) Fluorene            | 15.76 | 166 | 124215 | 8.32  | ng/ul  | 97     |
| 70) Phenanthrene        | 17.50 | 178 | 310120 | 12.19 | ng/ul  | 100    |
| 75) Carbazole           | 17.86 | 167 | 39451  | 1.80  | ng/ul  | 97     |
| 77) Fluoranthene        | 19.51 | 202 | 44212  | 1.38  | ng/ul# | 97     |

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

```
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Sample    : G4846-09  
Misc      :  
ALS Vial  : 28      Sample Multiplier: 1
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Quant Title : SVOA CALIBRATION  
QLast Update : Mon Dec 28 04:59:10 2015  
Response via : Initial Calibration

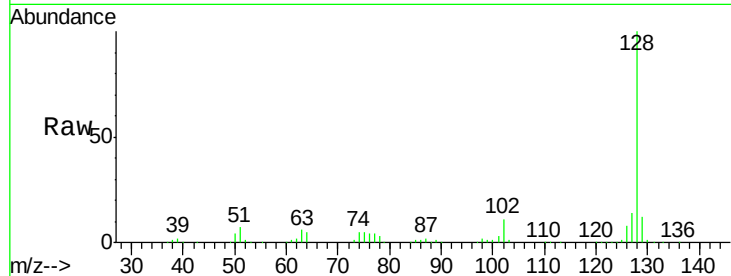




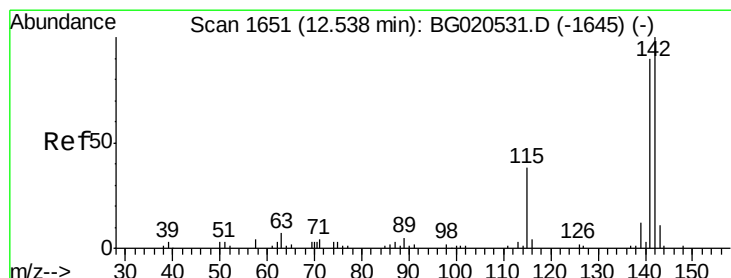
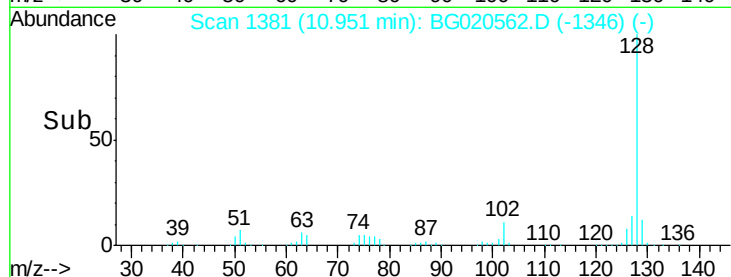
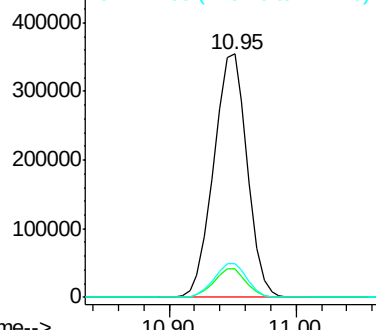
#28  
Naphthalene  
Concen: 49.40 ng/ul  
RT: 10.95 min Scan# 1381  
Delta R.T. 0.01 min  
Lab File: BG020562.D  
Acq: 27 Dec 2015 19:54

Instrument :  
BNA\_G  
ClientSampleId :  
D9N55

Tgt Ion:128 Resp: 651490  
Ion Ratio Lower Upper  
128 100  
129 11.7 8.6 12.8  
127 14.1 10.1 15.1

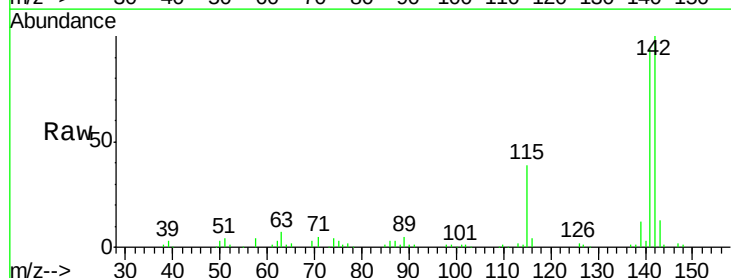


Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

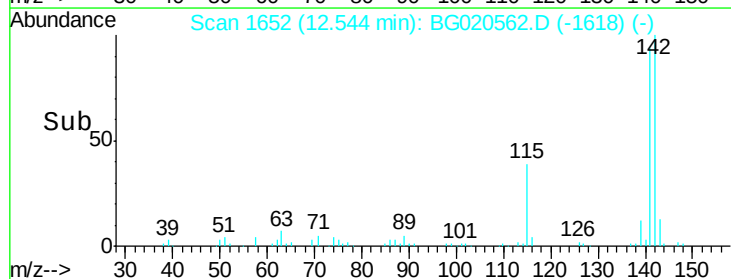
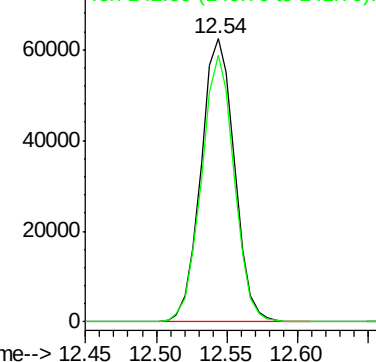


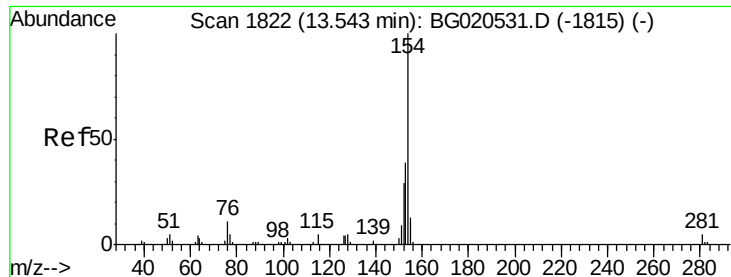
#34  
2-Methylnaphthalene  
Concen: 10.57 ng/ul  
RT: 12.54 min Scan# 1652  
Delta R.T. -0.00 min  
Lab File: BG020562.D  
Acq: 27 Dec 2015 19:54

Tgt Ion:142 Resp: 103159  
Ion Ratio Lower Upper  
142 100  
141 94.4 74.9 112.3



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

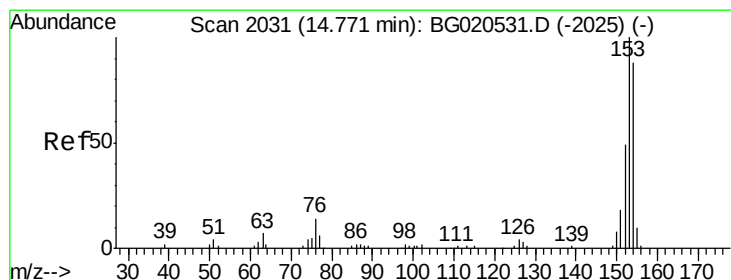
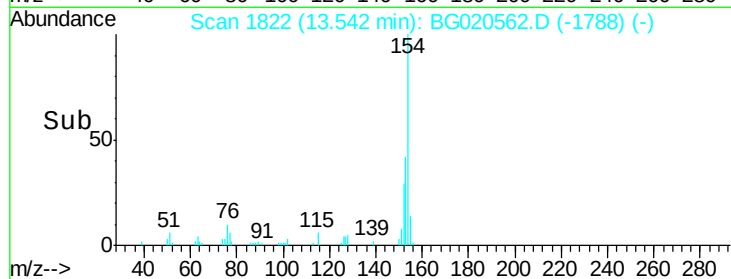
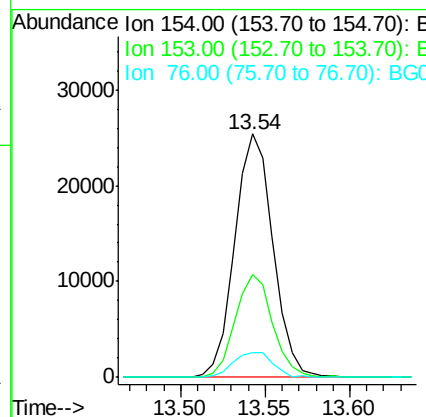
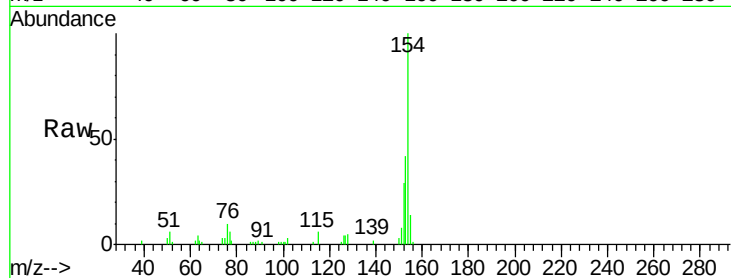




#41  
 1,1'-Biphenyl  
 Concen: 2.84 ng/ul  
 RT: 13.54 min Scan# 1822  
 Delta R.T. -0.00 min  
 Lab File: BG020562.D  
 Acq: 27 Dec 2015 19:54

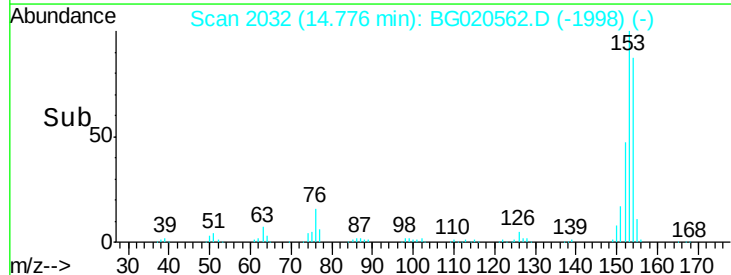
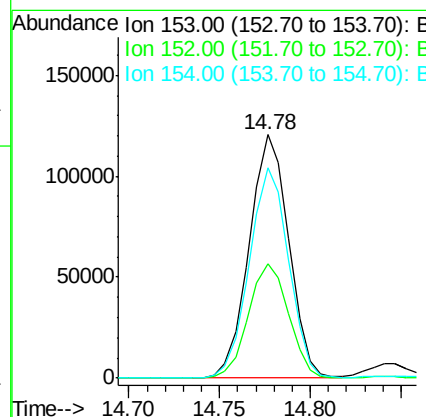
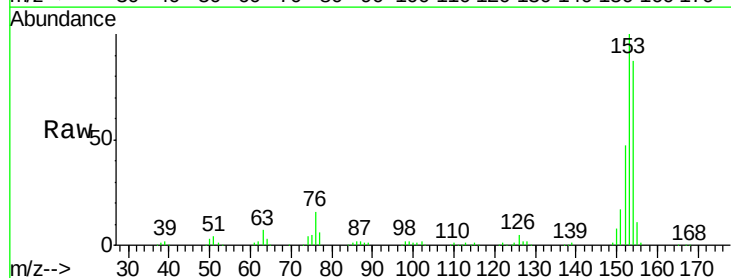
Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N55

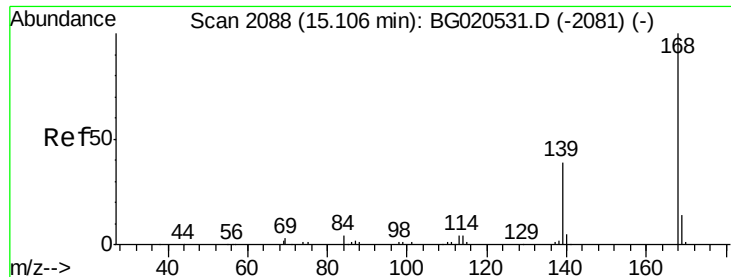
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 42.5  | 35.5  | 53.3  |
| 76      | 10.3  | 10.4  | 15.6# |



#50  
 Acenaphthene  
 Concen: 14.78 ng/ul  
 RT: 14.78 min Scan# 2032  
 Delta R.T. -0.00 min  
 Lab File: BG020562.D  
 Acq: 27 Dec 2015 19:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 46.7  | 37.6  | 56.4  |
| 154     | 86.5  | 67.9  | 101.9 |





#54

Dibenzenofuran

Concen: 7.55 ng/ul

RT: 15.11 min Scan# 2089

Delta R.T. -0.00 min

Lab File: BG020562.D

Acq: 27 Dec 2015 19:54

Instrument :

BNA\_G

ClientSampleId :

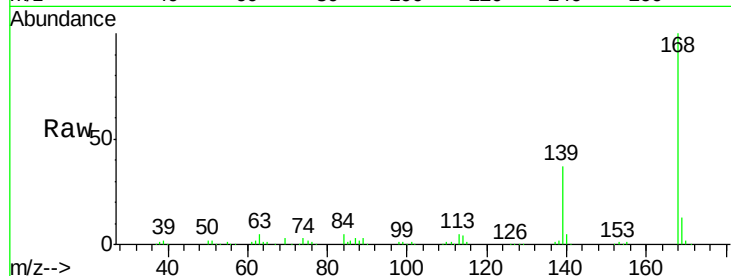
D9N55

Tgt Ion:168 Resp: 139034

Ion Ratio Lower Upper

168 100

139 37.4 30.5 45.7



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

100000

80000

60000

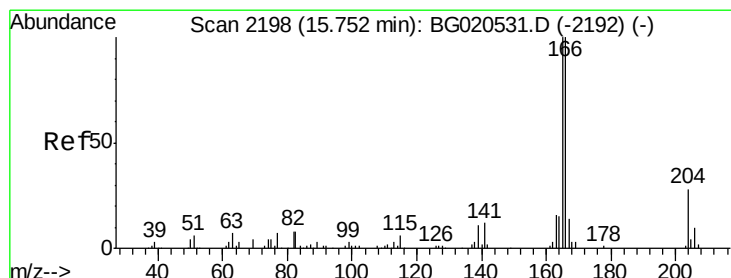
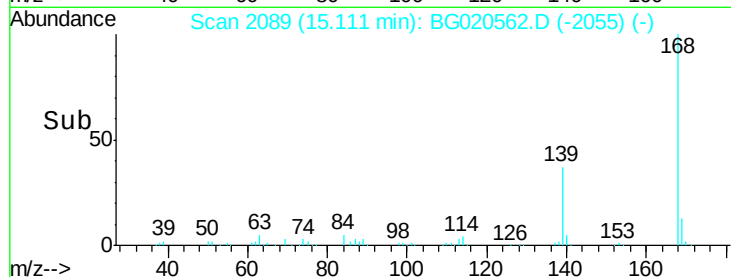
40000

20000

0

15.10 15.11 15.12

Time-->



#59

Fluorene

Concen: 8.32 ng/ul

RT: 15.76 min Scan# 2199

Delta R.T. -0.00 min

Lab File: BG020562.D

Acq: 27 Dec 2015 19:54

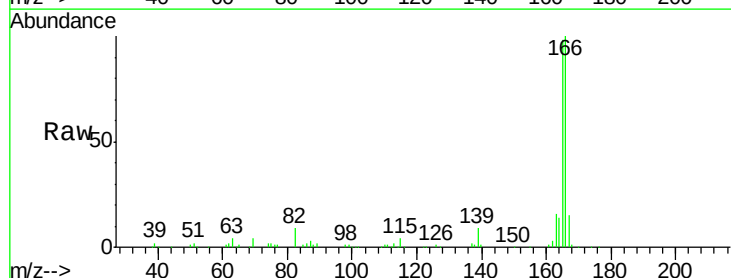
Tgt Ion:166 Resp: 124215

Ion Ratio Lower Upper

166 100

165 98.3 81.4 122.0

167 14.6 11.2 16.8



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

100000

80000

60000

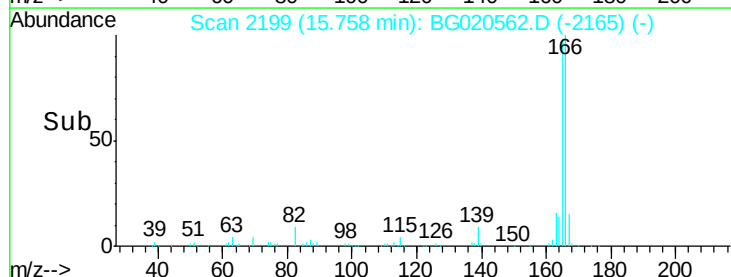
40000

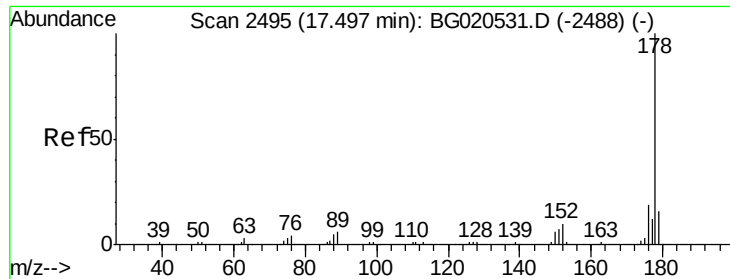
20000

0

15.75 15.76 15.77

Time-->





#70

Phenanthrene

Concen: 12.19 ng/ul

RT: 17.50 min Scan# 2496

Delta R.T. -0.00 min

Lab File: BG020562.D

Acq: 27 Dec 2015 19:54

Instrument :

BNA\_G

ClientSampleId :

D9N55

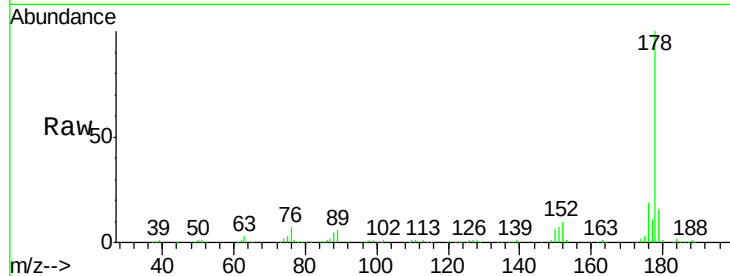
Tgt Ion:178 Resp: 310120

Ion Ratio Lower Upper

178 100

179 15.8 12.9 19.3

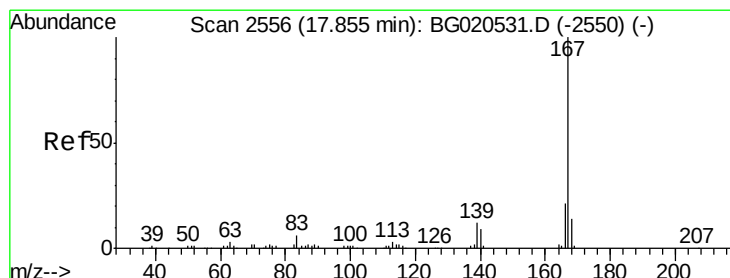
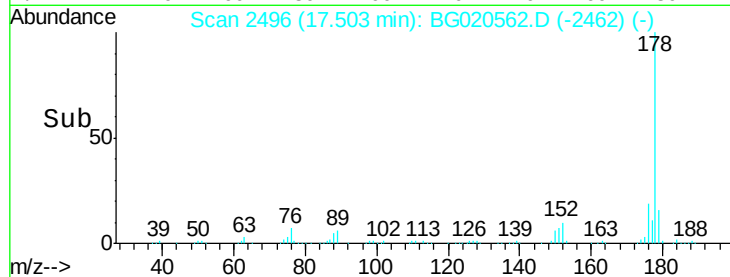
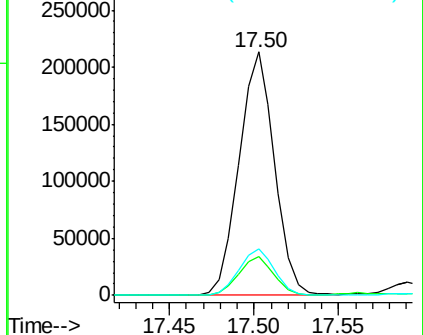
176 19.0 15.3 22.9



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



#75

Carbazole

Concen: 1.80 ng/ul

RT: 17.86 min Scan# 2557

Delta R.T. -0.00 min

Lab File: BG020562.D

Acq: 27 Dec 2015 19:54

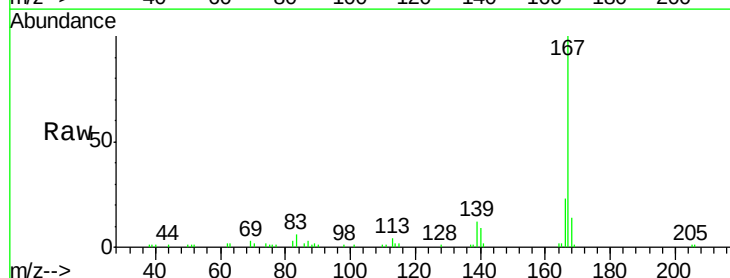
Tgt Ion:167 Resp: 39451

Ion Ratio Lower Upper

167 100

166 22.5 17.0 25.6

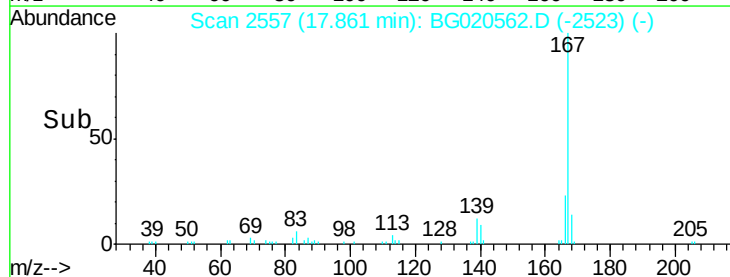
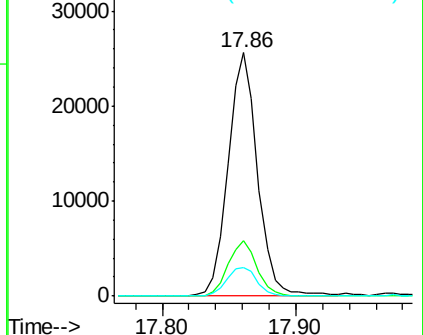
139 11.5 10.1 15.1

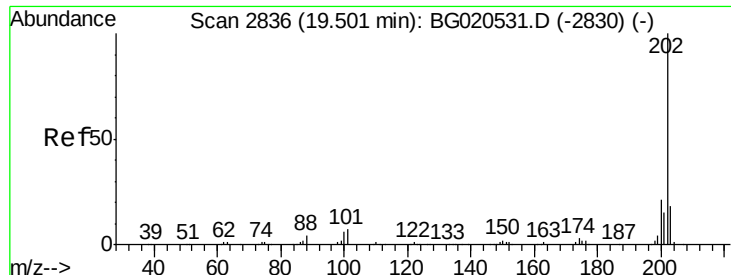


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

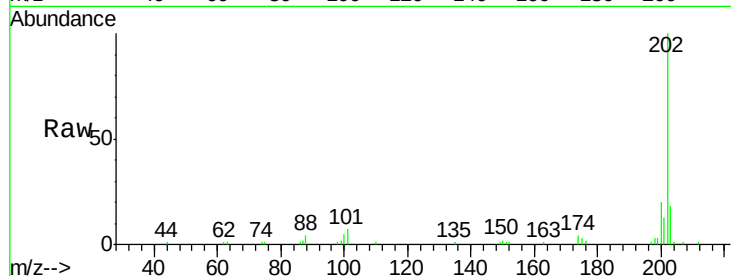




#77  
 Fluoranthene  
 Concen: 1.38 ng/ul  
 RT: 19.51 min Scan# 2837  
 Delta R.T. -0.00 min  
 Lab File: BG020562.D  
 Acq: 27 Dec 2015 19:54

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N55

Tgt Ion: 202 Resp: 44212  
 Ion Ratio Lower Upper  
 202 100  
 101 7.1 6.2 9.4  
 100 5.0 5.1 7.7#



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

