

Data Path : Z:\HPCHEM1\BNA G\DATA\BG110915\  
 Data File : BG019531.D  
 Acq On : 9 Nov 2015 13:58  
 Operator : UM/NP  
 Sample : G4245-16DL 5X  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BCY51DL

Quant Time: Nov 17 16:30:36 2015  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG102815.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Nov 10 00:14:14 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.17  | 152  | 33246    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.01 | 136  | 137660   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.81 | 164  | 111060   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.54 | 188  | 297969   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.83 | 240  | 392369   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 25.17 | 264  | 373715   | 20.00 | ng/ul | 0.00     |

| System Monitoring Compounds    | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 3) 1,4-Dioxane-d8              | 3.48  | 96   | 201      | 0.29 | ng/uL | 0.00     |
| 5) Phenol-d5                   | 7.32  | 99   | 4221     | 1.38 | ng/ul | 0.00     |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.49  | 67   | 16444    | 8.50 | ng/ul | 0.00     |
| 9) 2-Chlorophenol-d4           | 7.70  | 132  | 9653     | 5.07 | ng/ul | 0.00     |
| 13) 4-Methylphenol-d8          | 8.88  | 113  | 8208     | 3.38 | ng/ul | 0.00     |
| 19) Nitrobenzene-d5            | 9.35  | 128  | 9035     | 8.93 | ng/ul | 0.00     |
| 22) 2-Nitrophenol-d4           | 10.08 | 143  | 9195     | 7.66 | ng/ul | 0.00     |
| 26) 2,4-Dichlorophenol-d3      | 10.62 | 165  | 17233    | 6.61 | ng/ul | 0.00     |
| 29) 4-Chloroaniline-d4         | 11.15 | 131  | 4700     | 1.78 | ng/ul | 0.01     |
| 44) Dimethylphthalate-d6       | 14.20 | 166  | 75171    | 8.21 | ng/ul | 0.00     |
| 47) Acenaphthylene-d8          | 14.50 | 160  | 77217    | 7.61 | ng/ul | 0.00     |
| 52) 4-Nitrophenol-d4           | 15.00 | 143  | 2228     | 1.53 | ng/ul | 0.01     |
| 58) Fluorene-d10               | 15.79 | 176  | 65081    | 7.68 | ng/ul | 0.00     |
| 63) 4,6-Dinitro-2-methylphenol | 15.90 | 200  | 9571     | 4.96 | ng/ul | 0.00     |
| 71) Anthracene-d10             | 17.64 | 188  | 109881   | 8.09 | ng/ul | 0.00     |
| 79) Pyrene-d10                 | 19.92 | 212  | 130325   | 7.59 | ng/ul | 0.00     |
| 90) Benzo(a)pyrene-d12         | 24.94 | 264  | 148024   | 7.89 | ng/ul | -0.01    |

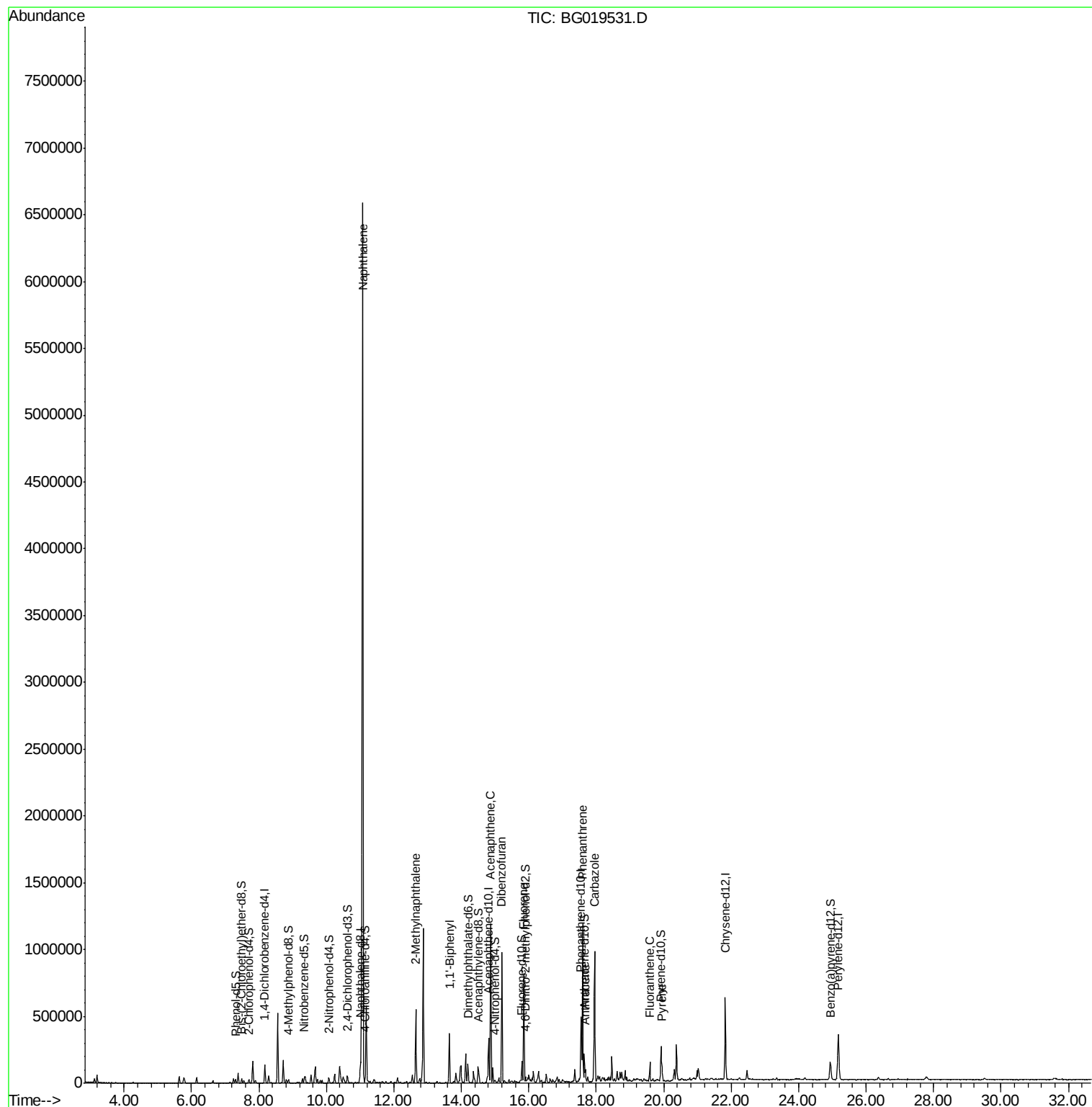
| Target Compounds        | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|-------------------------|-------|------|----------|--------|--------|--------|
| 28) Naphthalene         | 11.08 | 128  | 4435397  | 643.95 | ng/ul# | 74     |
| 34) 2-Methylnaphthalene | 12.65 | 142  | 227640   | 41.13  | ng/ul  | 98     |
| 41) 1,1'-Biphenyl       | 13.64 | 154  | 180971   | 23.05  | ng/ul# | 94     |
| 50) Acenaphthene        | 14.87 | 153  | 461117   | 65.73  | ng/ul  | 99     |
| 54) Dibenzofuran        | 15.20 | 168  | 583937   | 56.52  | ng/ul  | 99     |
| 59) Fluorene            | 15.85 | 166  | 361372   | 40.09  | ng/ul# | 97     |
| 70) Phenanthrene        | 17.59 | 178  | 695712   | 46.26  | ng/ul  | 97     |
| 72) Anthracene          | 17.68 | 178  | 55379    | 3.61   | ng/ul  | 99     |
| 75) Carbazole           | 17.95 | 167  | 605025   | 49.46  | ng/ul  | 96     |
| 77) Fluoranthene        | 19.59 | 202  | 88365    | 4.54   | ng/ul# | 94     |
| 80) Pyrene              | 19.95 | 202  | 54683    | 2.48   | ng/ul# | 92     |

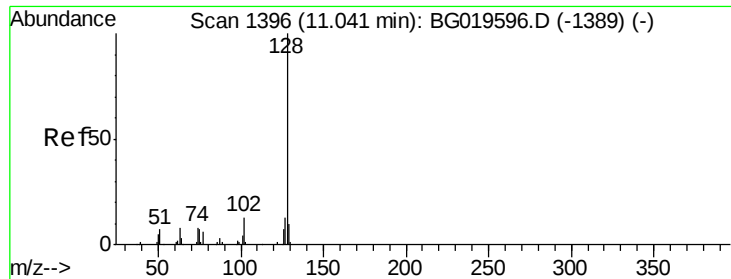
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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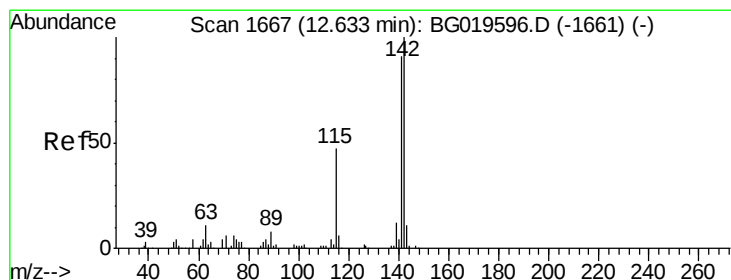
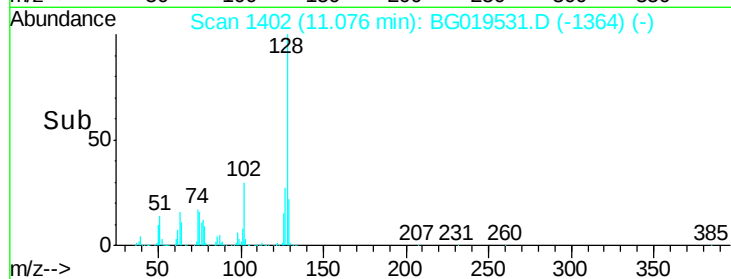
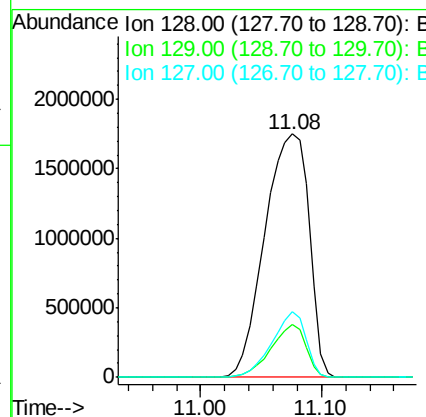
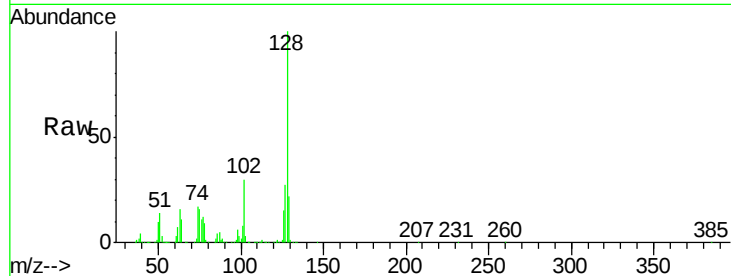




#28  
Naphthalene  
Concen: 643.95 ng/ul  
RT: 11.08 min Scan# 1402  
Delta R.T. 0.02 min  
Lab File: BG019531.D  
Acq: 9 Nov 2015 13:58

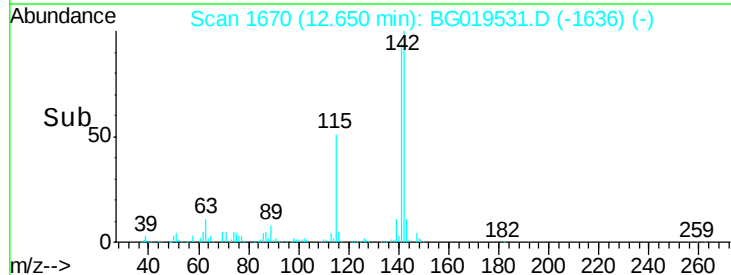
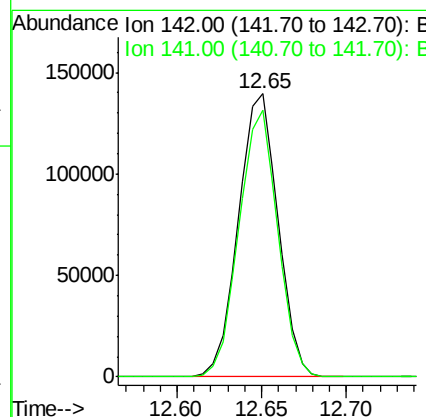
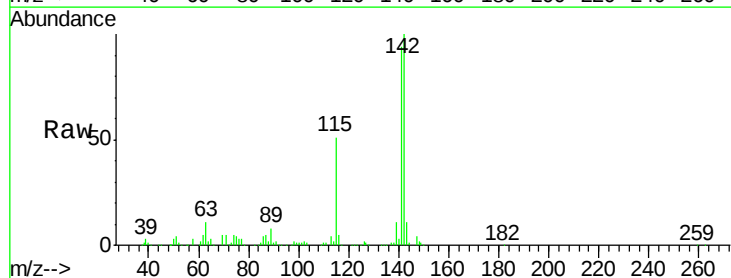
Instrument :  
BNA\_G  
ClientSampleId :  
BCY51DL

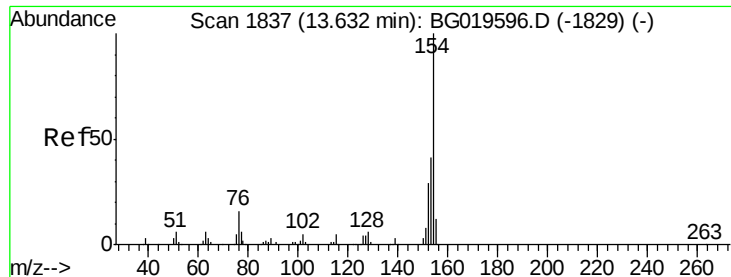
Tot Ion:128 Resp: 4435397  
Ion Ratio Lower Upper  
128 100  
129 21.8 8.9 13.3#  
127 26.8 13.1 19.7#



#34  
2-Methylnaphthalene  
Concen: 41.13 ng/ul  
RT: 12.65 min Scan# 1670  
Delta R.T. 0.00 min  
Lab File: BG019531.D  
Acq: 9 Nov 2015 13:58

Tgt Ion:142 Resp: 227640  
Ion Ratio Lower Upper  
142 100  
141 94.0 73.4 110.2

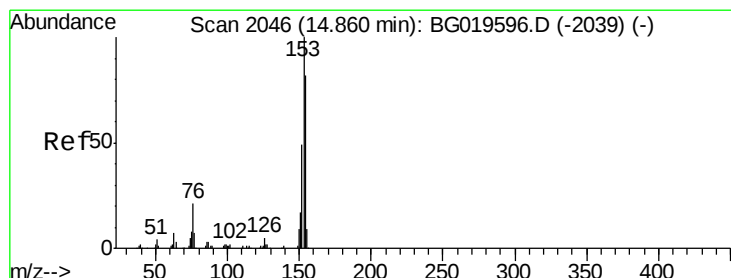
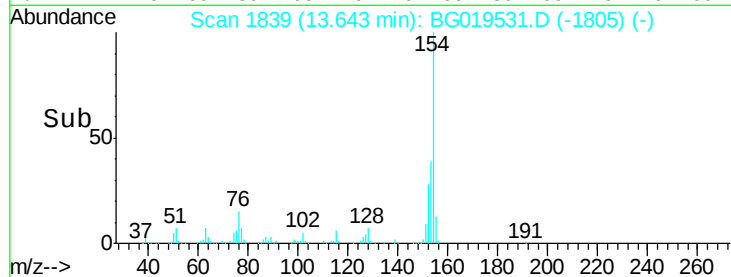
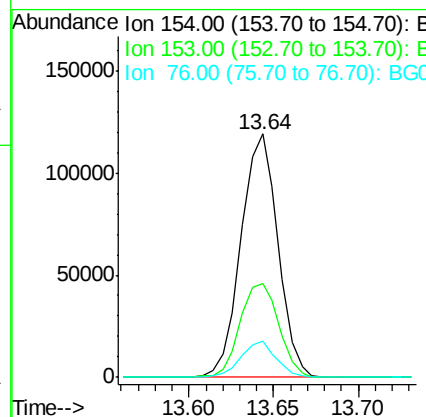
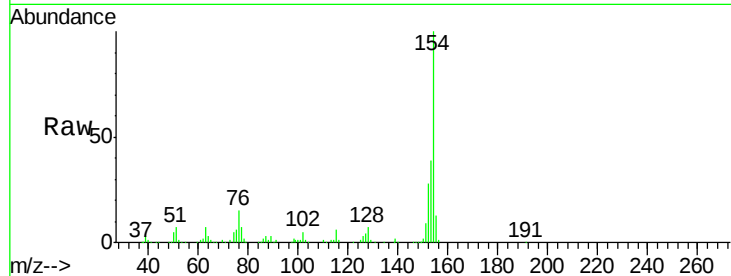




#41  
 1,1'-Biphenyl  
 Concen: 23.05 ng/ul  
 RT: 13.64 min Scan# 1839  
 Delta R.T. 0.00 min  
 Lab File: BG019531.D  
 Acq: 9 Nov 2015 13:58

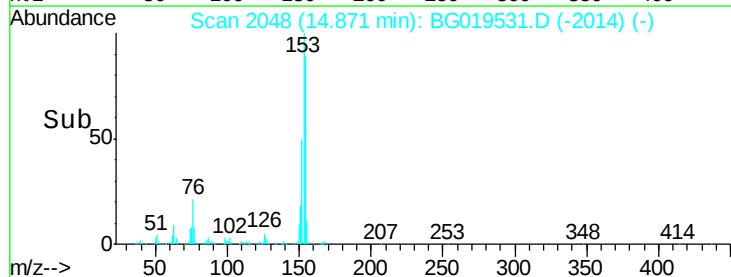
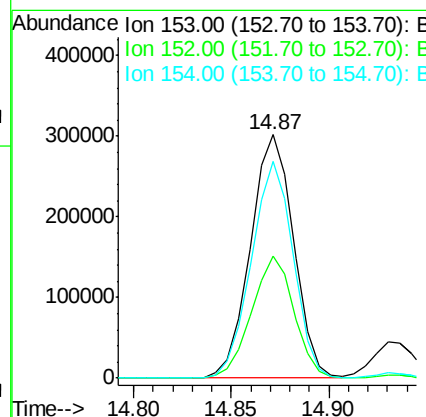
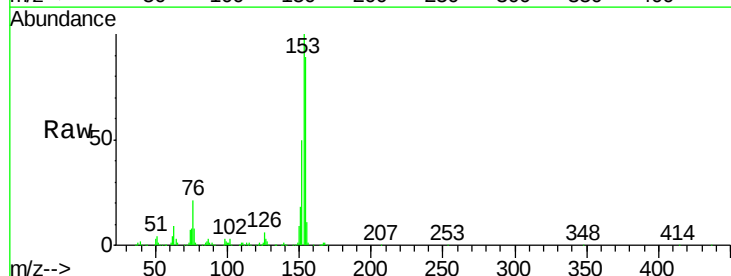
Instrument :  
 BNA\_G  
 ClientSampleId :  
 BCY51DL

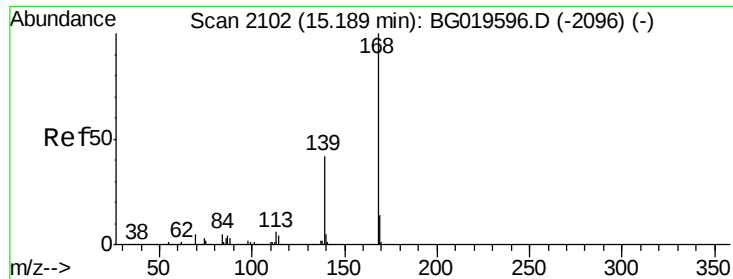
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 38.5  | 32.8  | 49.2  |
| 76      | 15.1  | 7.7   | 11.5  |



#50  
 Acenaphthene  
 Concen: 65.73 ng/ul  
 RT: 14.87 min Scan# 2048  
 Delta R.T. 0.00 min  
 Lab File: BG019531.D  
 Acq: 9 Nov 2015 13:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 50.3  | 38.8  | 58.2  |
| 154     | 89.2  | 71.5  | 107.3 |





#54

Dibenzenofuran

Concen: 56.52 ng/ul

RT: 15.20 min Scan# 2104

Delta R.T. 0.00 min

Lab File: BG019531.D

Acq: 9 Nov 2015 13:58

Instrument :

BNA\_G

ClientSampleId :

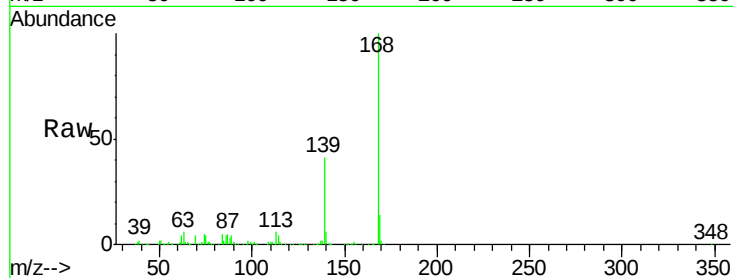
BCY51DL

Tot Ion:168 Resp: 583937

Ion Ratio Lower Upper

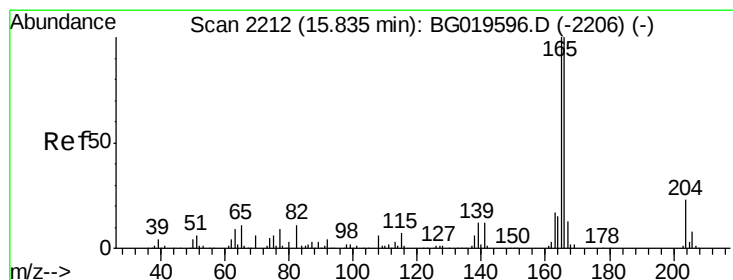
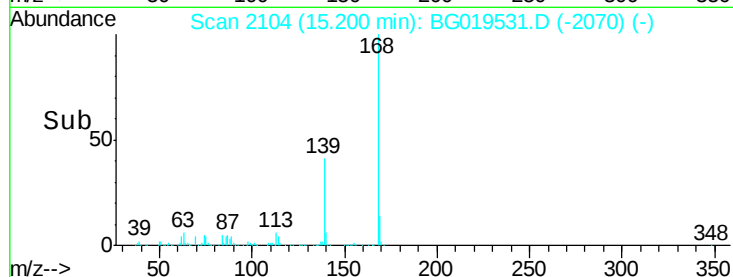
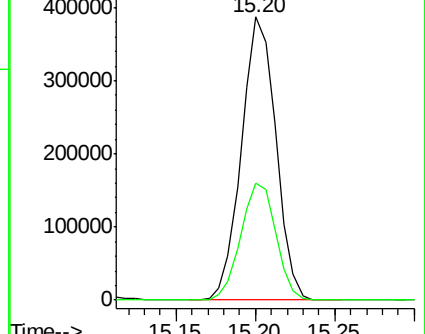
168 100

139 41.2 32.4 48.6



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#59

Fluorene

Concen: 40.09 ng/ul

RT: 15.85 min Scan# 2214

Delta R.T. -0.01 min

Lab File: BG019531.D

Acq: 9 Nov 2015 13:58

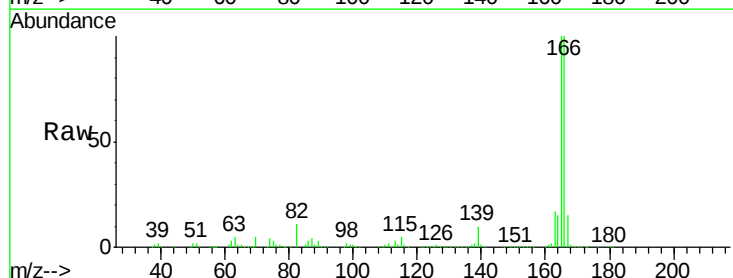
Tgt Ion:166 Resp: 361372

Ion Ratio Lower Upper

166 100

165 99.9 77.6 116.4

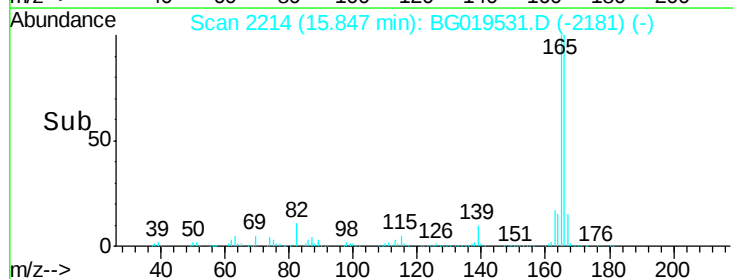
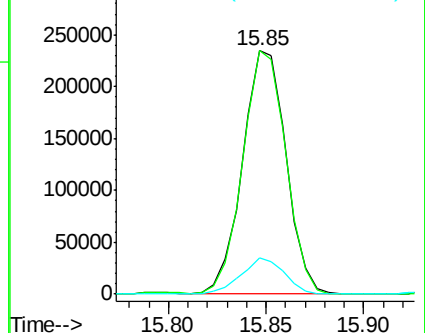
167 14.9 9.6 14.4#

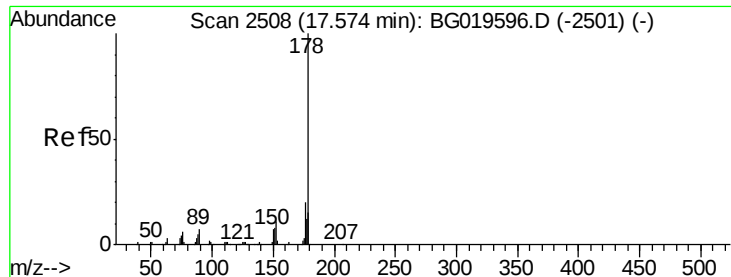


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#70

Phenanthrene

Concen: 46.26 ng/ul

RT: 17.59 min Scan# 2511

Delta R.T. 0.00 min

Lab File: BG019531.D

Acq: 9 Nov 2015 13:58

Instrument :

BNA\_G

ClientSampleId :

BCY51DL

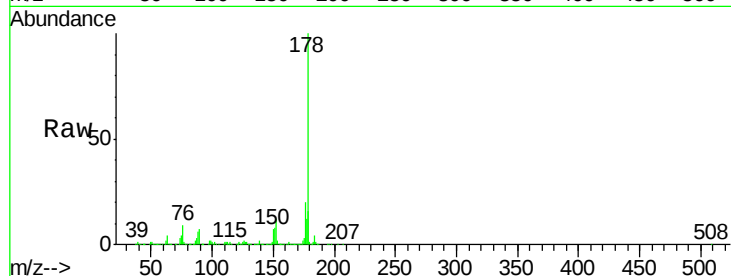
Tot Ion:178 Resp: 695712

Ion Ratio Lower Upper

178 100

179 16.2 12.6 18.8

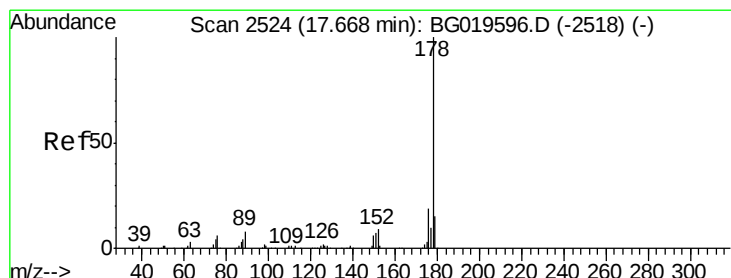
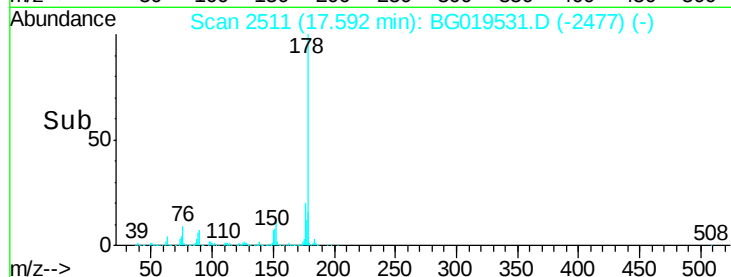
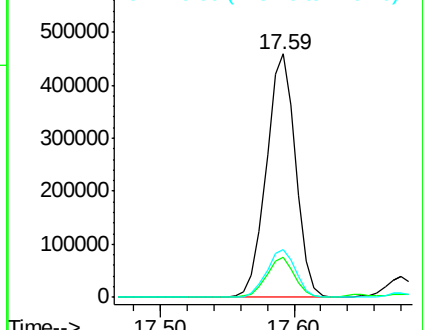
176 19.5 14.3 21.5



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: 3.61 ng/ul

RT: 17.68 min Scan# 2526

Delta R.T. 0.00 min

Lab File: BG019531.D

Acq: 9 Nov 2015 13:58

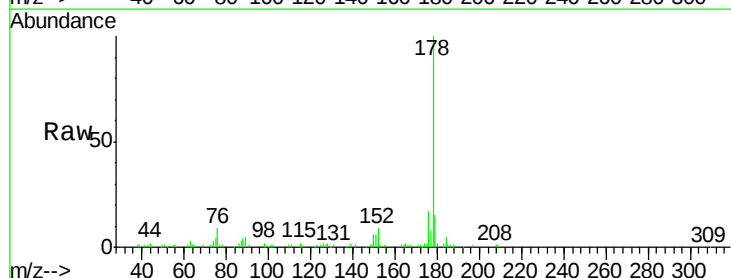
Tgt Ion:178 Resp: 55379

Ion Ratio Lower Upper

178 100

179 15.2 11.6 17.4

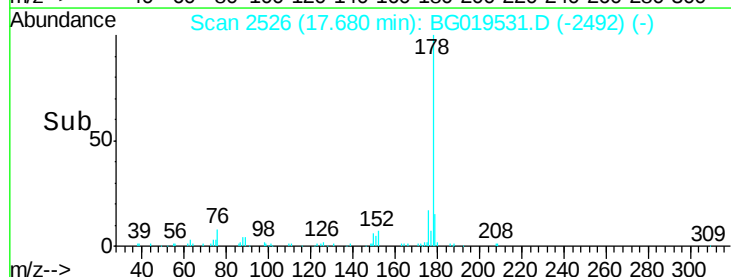
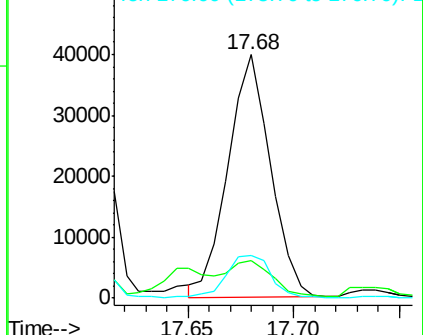
176 17.3 14.2 21.4

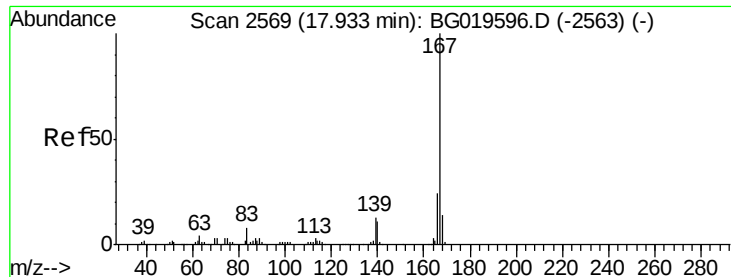


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#75

Carbazole

Concen: 49.46 ng/ul

RT: 17.95 min Scan# 2572

Delta R.T. 0.00 min

Lab File: BG019531.D

Acq: 9 Nov 2015 13:58

Instrument :

BNA\_G

ClientSampleId :

BCY51DL

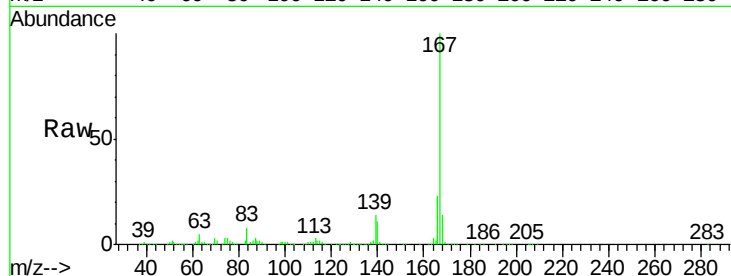
Tot Ion:167 Resp: 605025

Ion Ratio Lower Upper

167 100

166 22.9 16.8 25.2

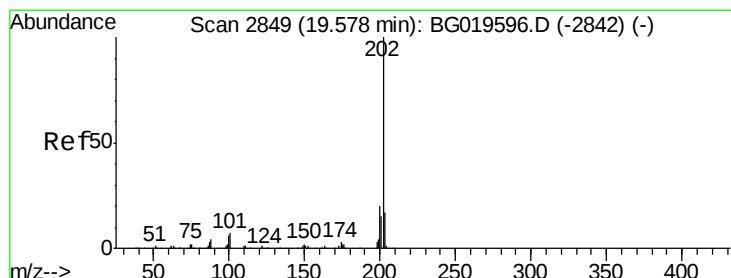
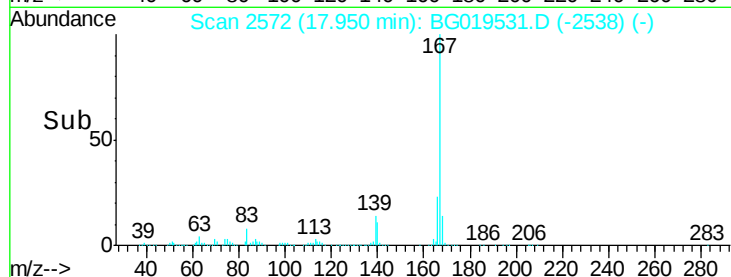
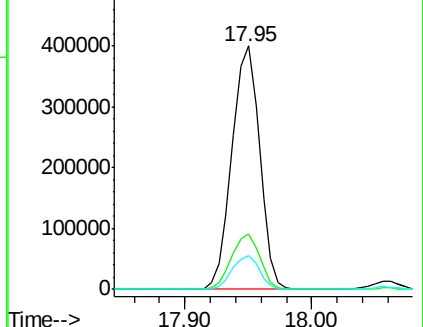
139 13.8 9.8 14.6



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: 4.54 ng/ul

RT: 19.59 min Scan# 2851

Delta R.T. 0.00 min

Lab File: BG019531.D

Acq: 9 Nov 2015 13:58

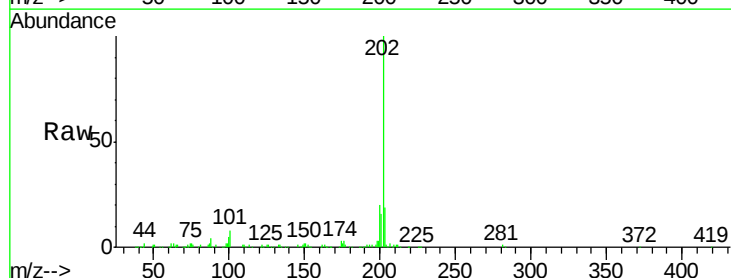
Tgt Ion:202 Resp: 88365

Ion Ratio Lower Upper

202 100

101 8.1 4.0 6.0#

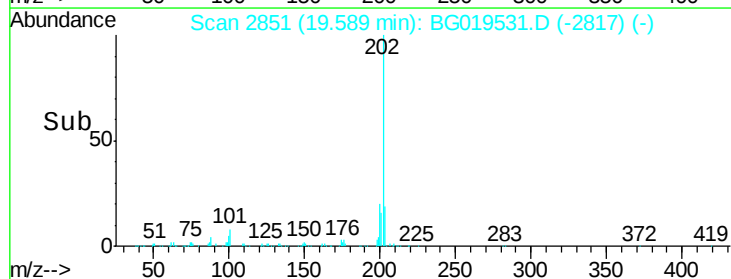
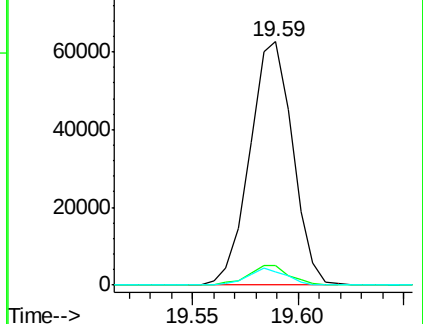
100 5.3 3.6 5.4

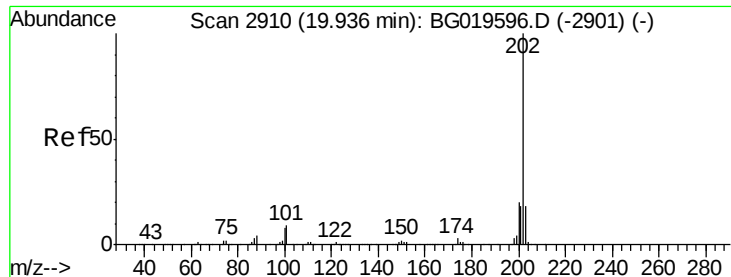


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

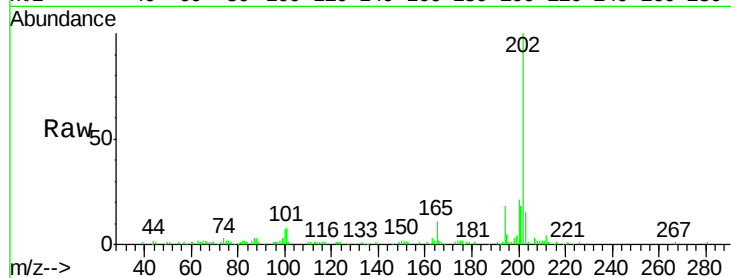




#80  
 Pvrene  
 Concen: 2.48 ng/ul  
 RT: 19.95 min Scan# 2912  
 Delta R.T. -0.01 min  
 Lab File: BG019531.D  
 Acq: 9 Nov 2015 13:58

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BCY51DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 7.7   | 4.3   | 6.5#  |
| 100     | 7.3   | 3.6   | 5.4#  |



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

