

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG123015\  
 Data File : BG020608.D  
 Acq On : 30 Dec 2015 14:36  
 Operator : UM/SJ  
 Sample : G4846-09  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N55

Quant Time: Dec 30 23:54:43 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG123015.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Dec 30 23:49:10 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.06  | 152  | 21616    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.88 | 136  | 96226    | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.70 | 164  | 70657    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.44 | 188  | 183150   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.71 | 240  | 219294   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 24.96 | 264  | 211441   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |       |
|--------------------------------|-------|-----|--------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.42  | 96  | 315    | 0.87  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 7.22  | 99  | 12110  | 6.63  | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.38  | 67  | 30297  | 27.44 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.59  | 132 | 31806  | 22.78 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.77  | 113 | 23885  | 15.25 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 9.23  | 128 | 22469  | 30.23 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.95  | 143 | 26620  | 30.85 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.50 | 165 | 43713  | 26.67 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 10.99 | 131 | 650    | 0.33  | ng/ul | -0.03 |
| 44) Dimethylphthalate-d6       | 14.09 | 166 | 187904 | 32.50 | ng/ul | 0.00  |
| 47) Acenaphthylene-d8          | 14.39 | 160 | 202668 | 30.85 | ng/ul | 0.00  |
| 52) 4-Nitrophenol-d4           | 14.91 | 143 | 6393   | 7.05  | ng/ul | 0.00  |
| 58) Fluorene-d10               | 15.69 | 176 | 167961 | 32.04 | ng/ul | 0.00  |
| 63) 4,6-Dinitro-2-methylphenol | 15.81 | 200 | 33171  | 29.86 | ng/ul | 0.00  |
| 71) Anthracene-d10             | 17.54 | 188 | 273954 | 32.10 | ng/ul | 0.00  |
| 79) Pyrene-d10                 | 19.82 | 212 | 332434 | 33.80 | ng/ul | 0.00  |
| 90) Benzo(a)pyrene-d12         | 24.74 | 264 | 355022 | 33.65 | ng/ul | 0.00  |

## Target Compounds

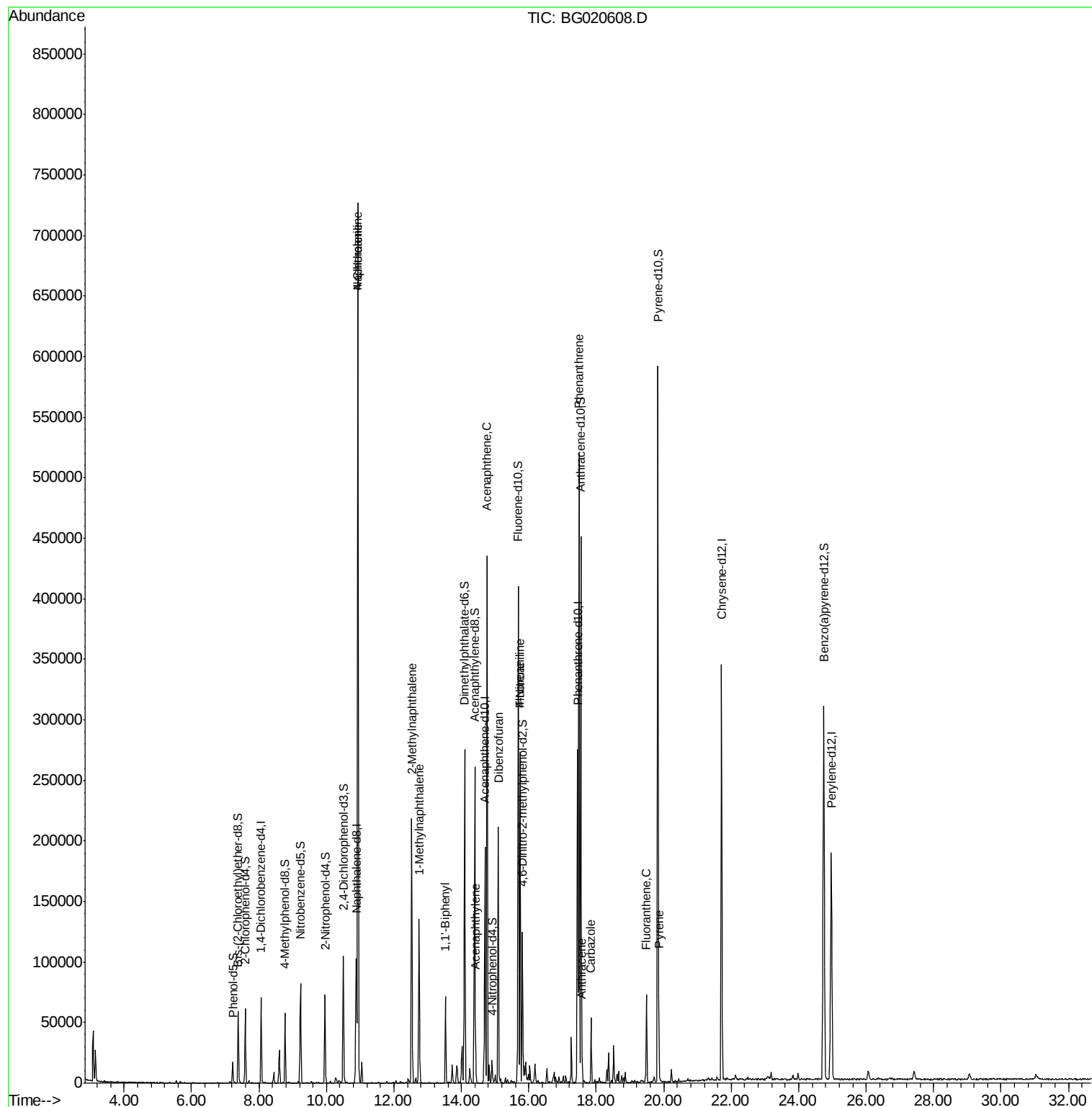
|                         |       |     |        |        |        | Qvalue |
|-------------------------|-------|-----|--------|--------|--------|--------|
| 28) Naphthalene         | 10.93 | 128 | 640374 | 125.67 | ng/ul  | 98     |
| 30) 4-Chloroaniline     | 10.93 | 127 | 88577  | 44.30  | ng/ul# | 8      |
| 34) 2-Methylnaphthalene | 12.53 | 142 | 105437 | 27.65  | ng/ul  | 95     |
| 35) 1-Methylnaphthalene | 12.74 | 142 | 63022  | 17.12  | ng/ul  | 99     |
| 41) 1,1'-Biphenyl       | 13.52 | 154 | 41146  | 7.74   | ng/ul  | 96     |
| 48) Acenaphthylene      | 14.42 | 152 | 18818  | 2.69   | ng/ul  | 97     |
| 50) Acenaphthene        | 14.76 | 153 | 186926 | 39.49  | ng/ul  | 99     |
| 54) Dibenzofuran        | 15.09 | 168 | 144458 | 20.19  | ng/ul  | 99     |
| 59) Fluorene            | 15.74 | 166 | 129638 | 22.53  | ng/ul  | 99     |
| 61) 4-Nitroaniline      | 15.74 | 138 | 1586   | 1.30   | ng/ul# | 14     |
| 70) Phenanthrene        | 17.48 | 178 | 331355 | 33.28  | ng/ul  | 99     |
| 72) Anthracene          | 17.57 | 178 | 17646  | 1.73   | ng/ul  | 98     |
| 75) Carbazole           | 17.84 | 167 | 38338  | 4.46   | ng/ul  | 99     |
| 77) Fluoranthene        | 19.49 | 202 | 49353  | 4.06   | ng/ul  | 99     |
| 80) Pyrene              | 19.85 | 202 | 31183  | 2.46   | ng/ul  | 98     |

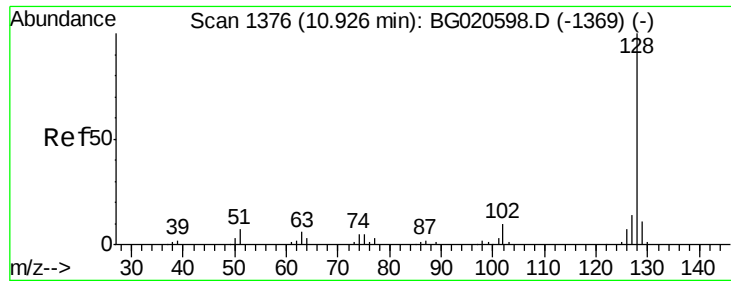
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SVOA CALIBRATION  
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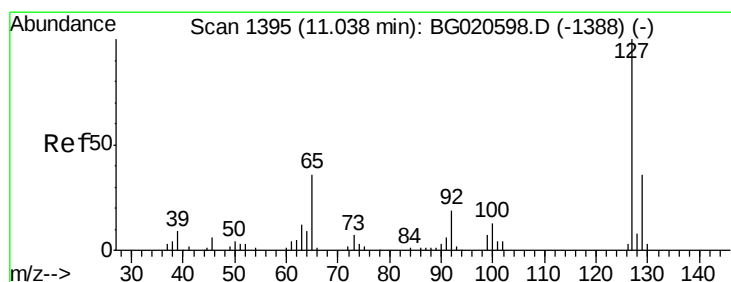
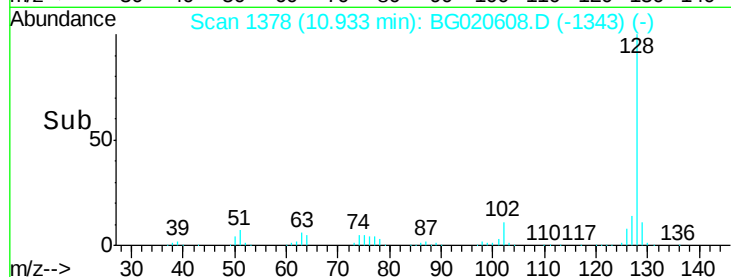
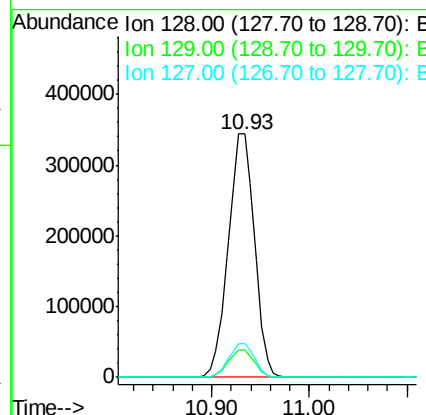
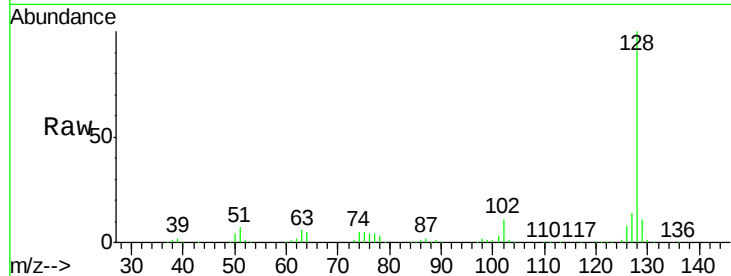




#28  
Naphthalene  
Concen: 125.67 ng/ul  
RT: 10.93 min Scan# 1378  
Delta R.T. 0.01 min  
Lab File: BG020608.D  
Acq: 30 Dec 2015 14:36

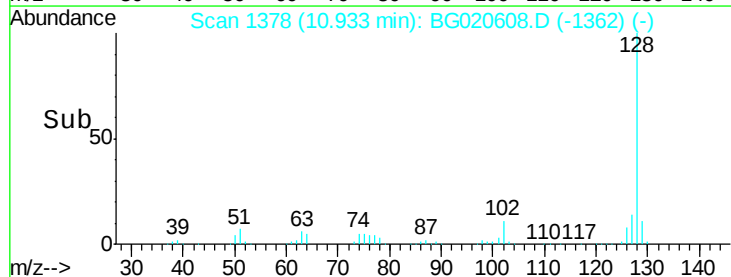
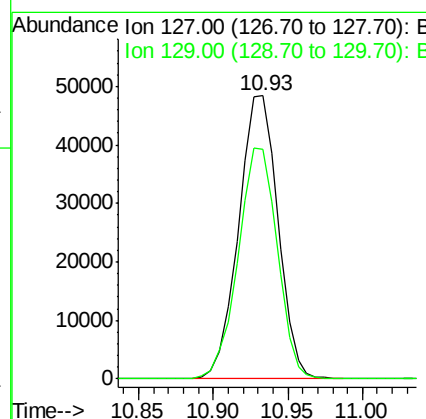
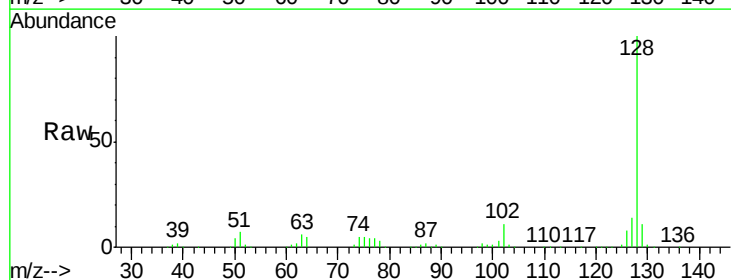
Instrument :  
BNA\_G  
ClientSampleId :  
D9N55

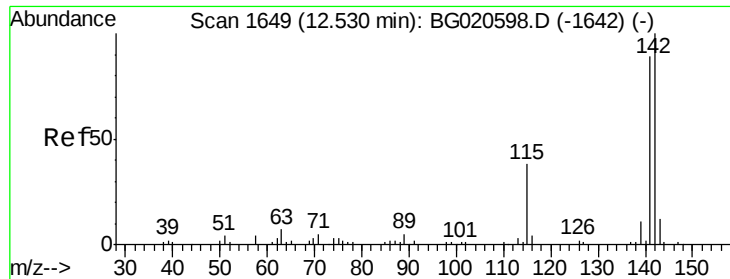
Tgt Ion:128 Resp: 640374  
Ion Ratio Lower Upper  
128 100  
129 11.4 8.3 12.5  
127 14.1 10.8 16.2



#30  
4-Chloroaniline  
Concen: 44.30 ng/ul  
RT: 10.93 min Scan# 1378  
Delta R.T. -0.10 min  
Lab File: BG020608.D  
Acq: 30 Dec 2015 14:36

Tgt Ion:127 Resp: 88577  
Ion Ratio Lower Upper  
127 100  
129 81.2 24.6 37.0#

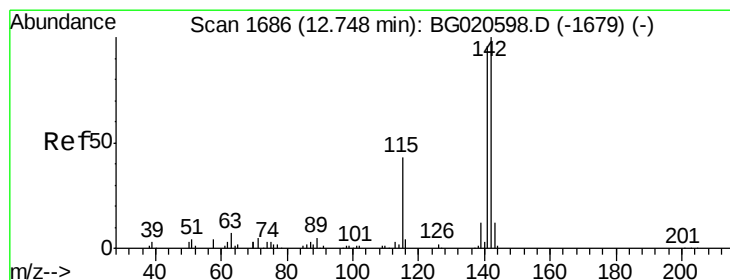
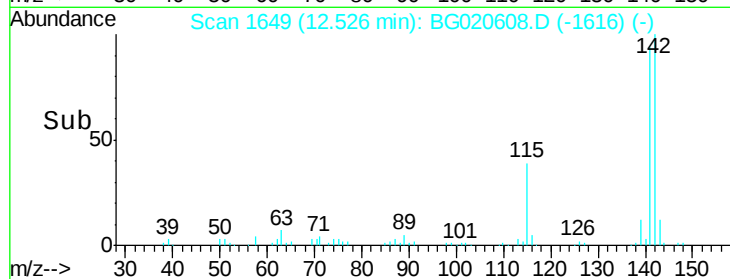
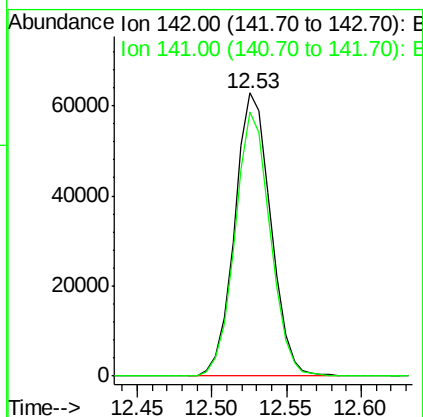
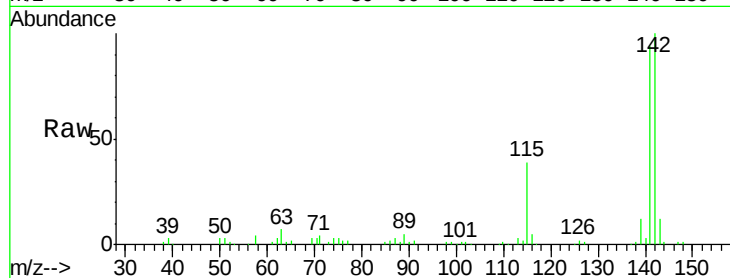




#34  
2-Methylnaphthalene  
Concen: 27.65 ng/ul  
RT: 12.53 min Scan# 1649  
Delta R.T. -0.00 min  
Lab File: BG020608.D  
Acq: 30 Dec 2015 14:36

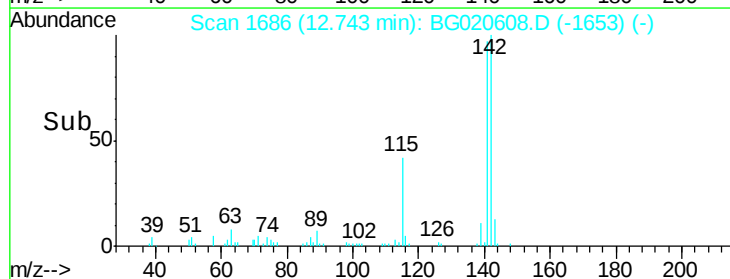
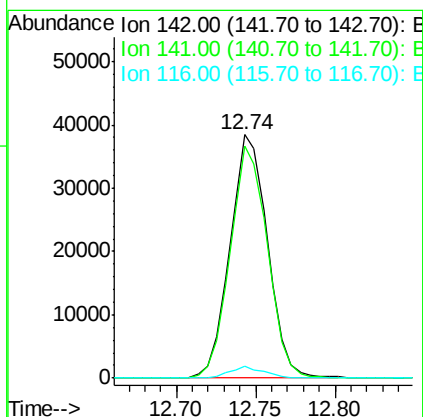
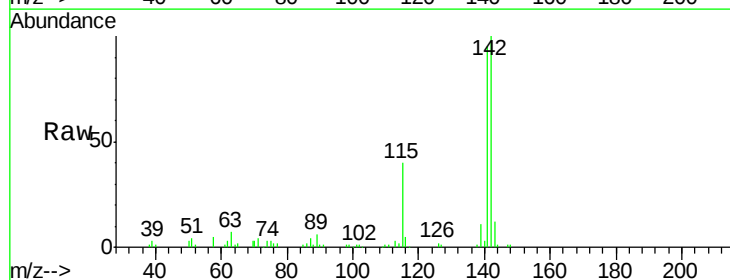
Instrument :  
BNA\_G  
ClientSampleId :  
D9N55

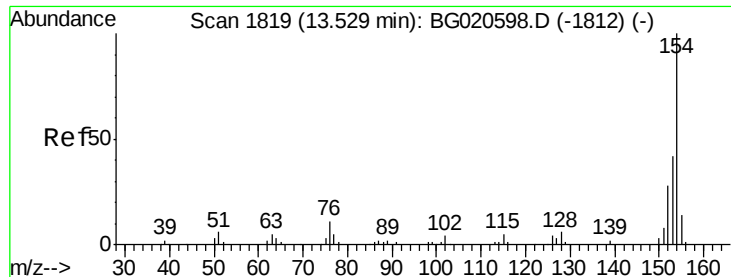
Tgt Ion:142 Resp: 105437  
Ion Ratio Lower Upper  
142 100  
141 93.6 71.4 107.2



#35  
1-Methylnaphthalene  
Concen: 17.12 ng/ul  
RT: 12.74 min Scan# 1686  
Delta R.T. -0.00 min  
Lab File: BG020608.D  
Acq: 30 Dec 2015 14:36

Tgt Ion:142 Resp: 63022  
Ion Ratio Lower Upper  
142 100  
141 95.1 76.6 115.0  
116 4.8 3.6 5.4

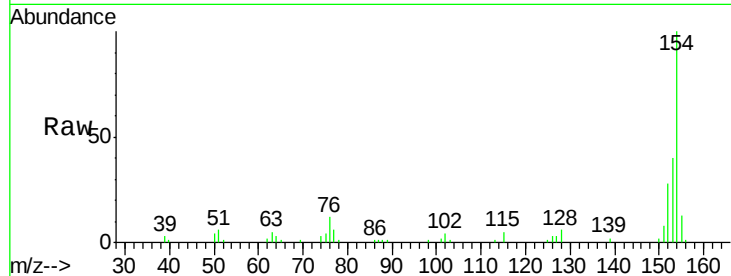




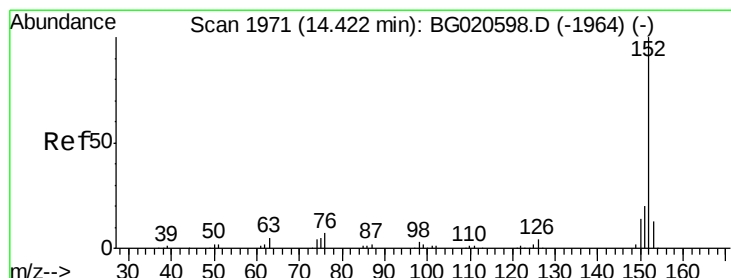
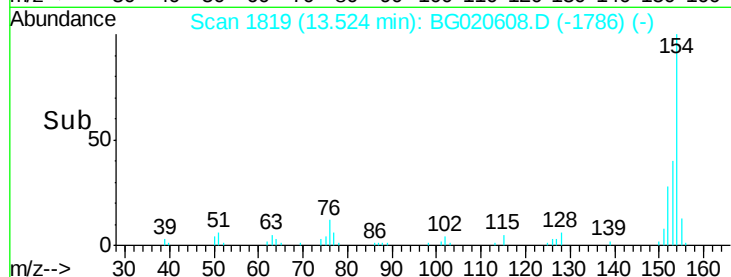
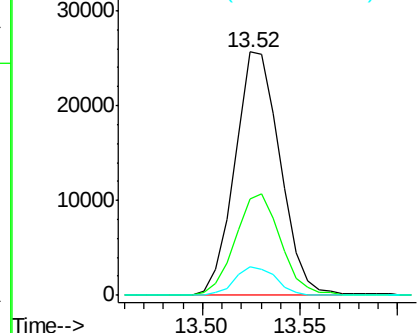
#41  
 1,1'-Biphenyl  
 Concen: 7.74 ng/ul  
 RT: 13.52 min Scan# 1819  
 Delta R.T. -0.00 min  
 Lab File: BG020608.D  
 Acq: 30 Dec 2015 14:36

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N55

Tgt Ion:154 Resp: 41146  
 Ion Ratio Lower Upper  
 154 100  
 153 39.8 34.0 51.0  
 76 11.7 8.4 12.6

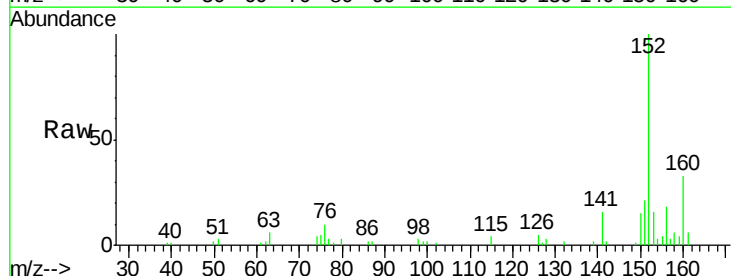


Abundance Ion 154.00 (153.70 to 154.70): E  
 Ion 153.00 (152.70 to 153.70): E  
 Ion 76.00 (75.70 to 76.70): B

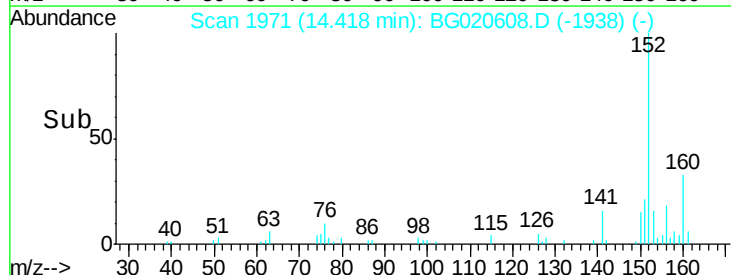
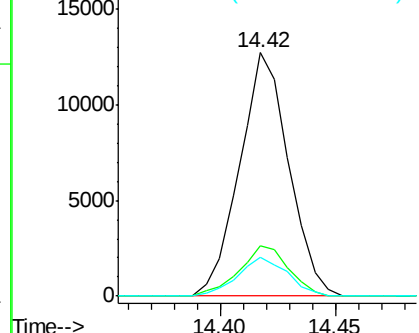


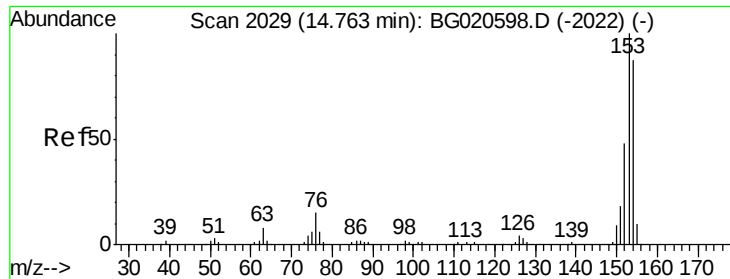
#48  
 Acenaphthylene  
 Concen: 2.69 ng/ul  
 RT: 14.42 min Scan# 1971  
 Delta R.T. -0.00 min  
 Lab File: BG020608.D  
 Acq: 30 Dec 2015 14:36

Tgt Ion:152 Resp: 18818  
 Ion Ratio Lower Upper  
 152 100  
 151 20.6 16.1 24.1  
 153 16.2 10.8 16.2



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





#50

Acenaphthene

Concen: 39.49 ng/ul

RT: 14.76 min Scan# 2029

Delta R.T. -0.00 min

Lab File: BG020608.D

Acq: 30 Dec 2015 14:36

Instrument :

BNA\_G

ClientSampleId :

D9N55

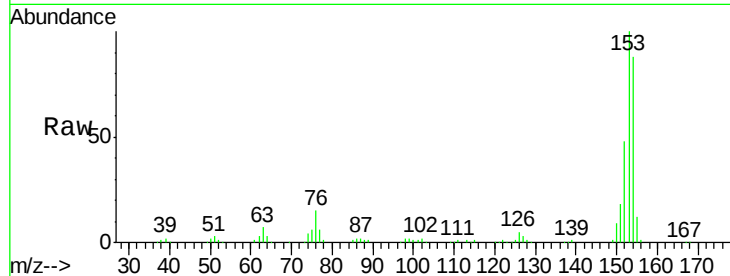
Tgt Ion:153 Resp: 186926

Ion Ratio Lower Upper

153 100

152 47.5 37.9 56.9

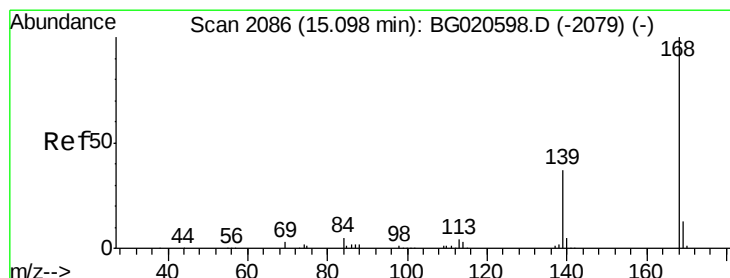
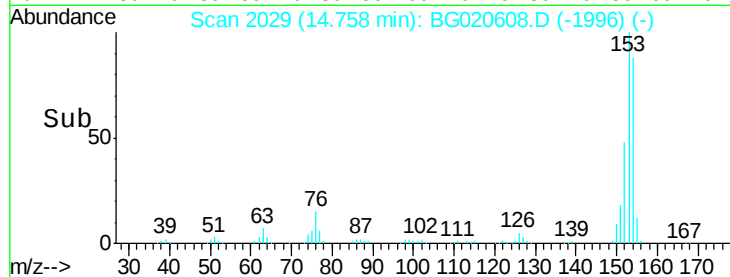
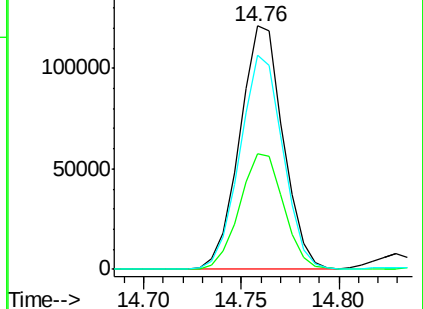
154 87.9 69.8 104.6



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



#54

Dibenzofuran

Concen: 20.19 ng/ul

RT: 15.09 min Scan# 2086

Delta R.T. -0.00 min

Lab File: BG020608.D

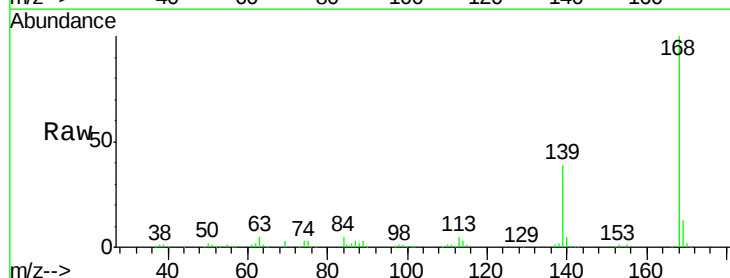
Acq: 30 Dec 2015 14:36

Tgt Ion:168 Resp: 144458

Ion Ratio Lower Upper

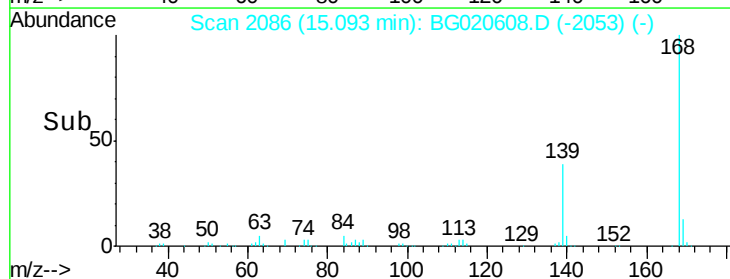
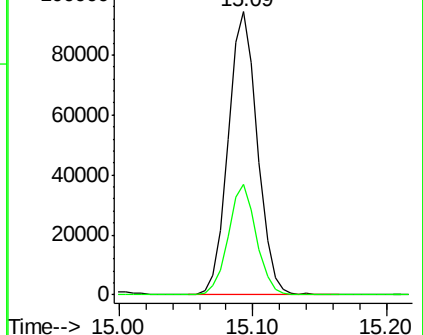
168 100

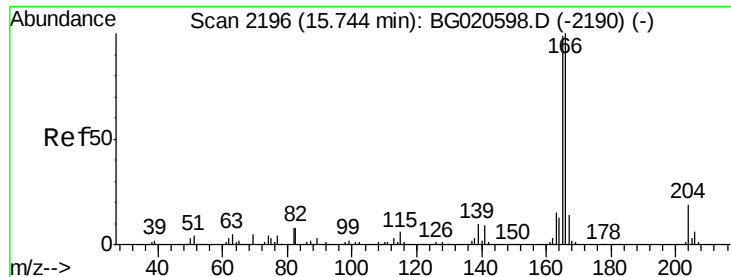
139 39.1 31.0 46.4



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#59

Fluorene

Concen: 22.53 ng/ul

RT: 15.74 min Scan# 2196

Delta R.T. -0.00 min

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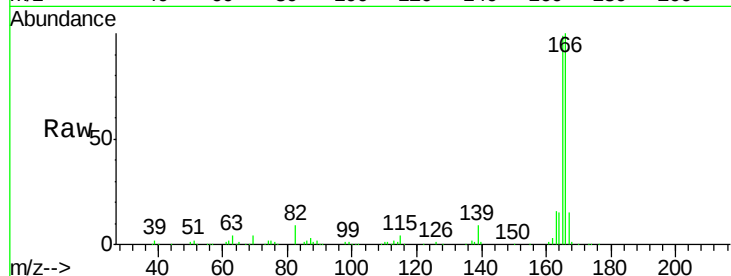
Tgt Ion:166 Resp: 129638

Ion Ratio Lower Upper

166 100

165 99.2 78.4 117.6

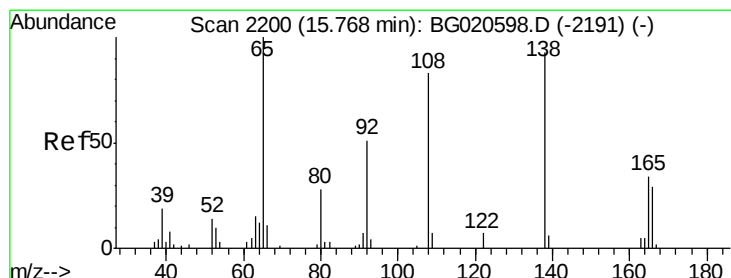
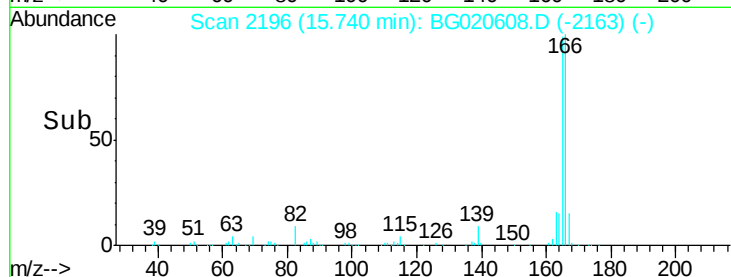
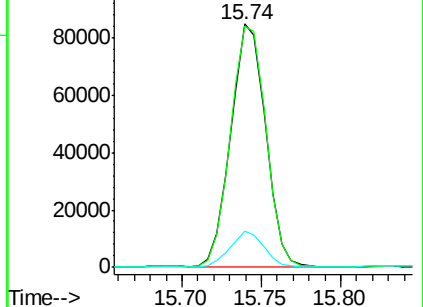
167 14.9 11.1 16.7



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



#61

4-Nitroaniline

Concen: 1.30 ng/ul

RT: 15.74 min Scan# 2196

Delta R.T. -0.03 min

Lab File: BG020608.D

Acq: 30 Dec 2015 14:36

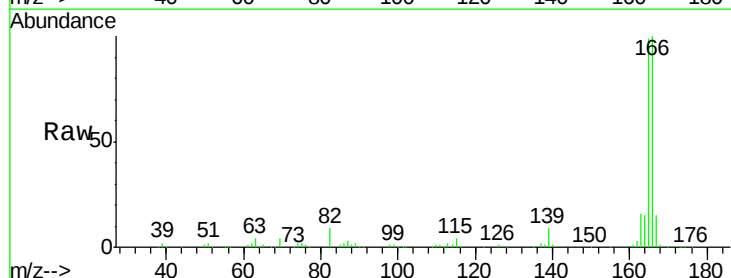
Tgt Ion:138 Resp: 1586

Ion Ratio Lower Upper

138 100

92 0.0 38.2 57.4#

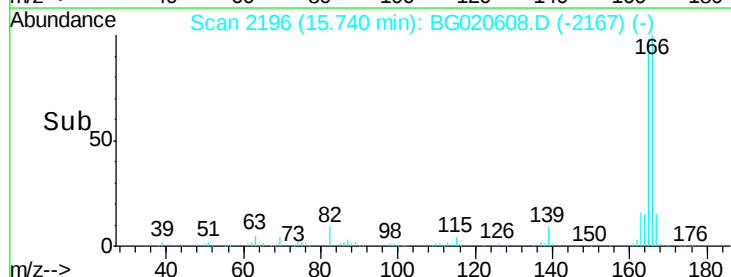
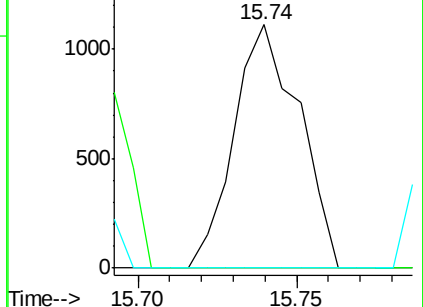
108 0.0 70.0 105.0#

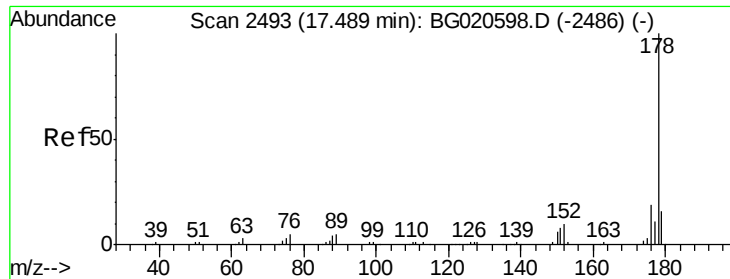


Abundance Ion 138.00 (137.70 to 138.70): E

Ion 92.00 (91.70 to 92.70): BG

Ion 108.00 (107.70 to 108.70): E





#70

Phenanthrene

Concen: 33.28 ng/ul

RT: 17.48 min Scan# 2493

Delta R.T. -0.00 min

Lab File: BG020608.D

Acq: 30 Dec 2015 14:36

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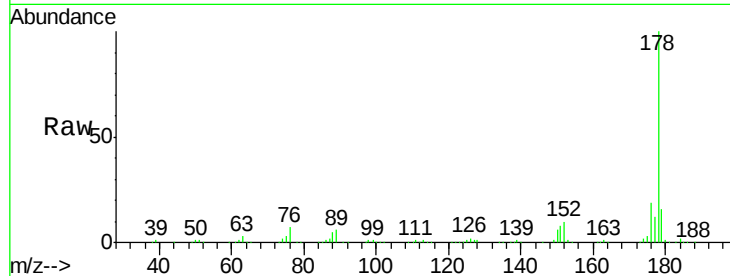
Tgt Ion:178 Resp: 331355

Ion Ratio Lower Upper

178 100

179 16.4 12.3 18.5

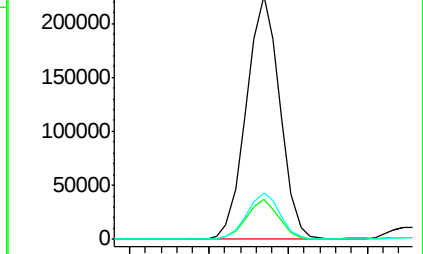
176 19.2 15.4 23.0



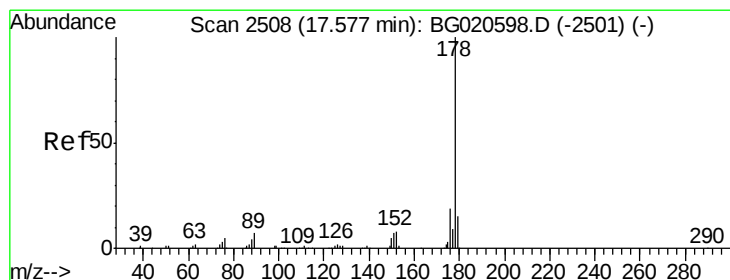
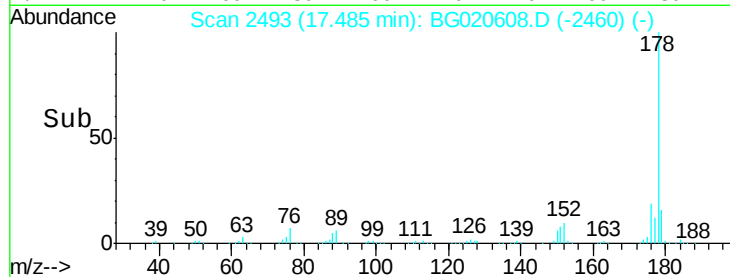
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



Time-->



#72

Anthracene

Concen: 1.73 ng/ul

RT: 17.57 min Scan# 2508

Delta R.T. -0.00 min

Lab File: BG020608.D

Acq: 30 Dec 2015 14:36

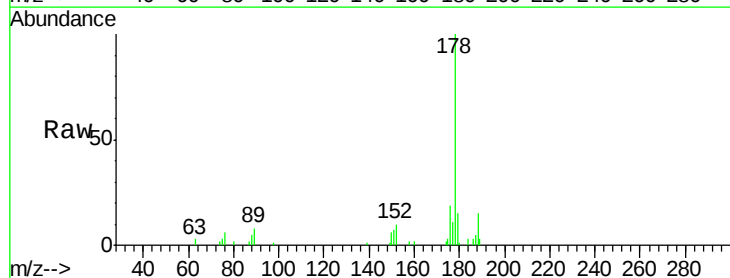
Tgt Ion:178 Resp: 17646

Ion Ratio Lower Upper

178 100

179 15.1 13.4 20.2

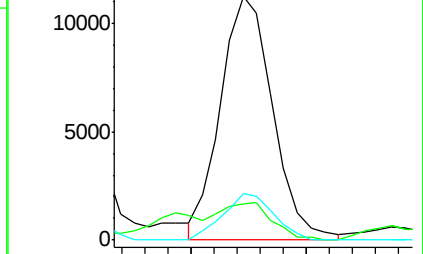
176 19.0 15.4 23.0



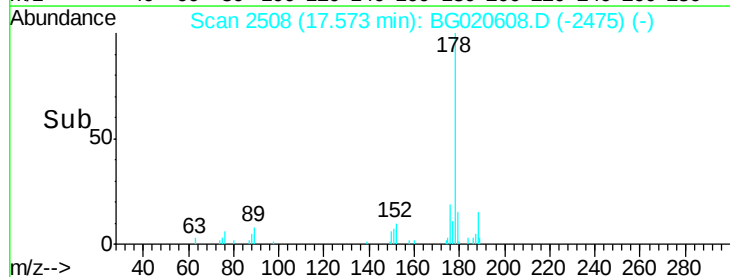
Abundance Ion 178.00 (177.70 to 178.70): E

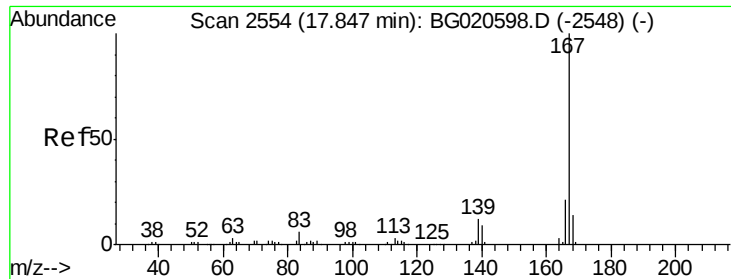
Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



Time-->





#75

Carbazole

Concen: 4.46 ng/ul

RT: 17.84 min Scan# 2554

Delta R.T. -0.00 min

Lab File: BG020608.D

Acq: 30 Dec 2015 14:36

Instrument :

BNA\_G

ClientSampleId :

D9N55

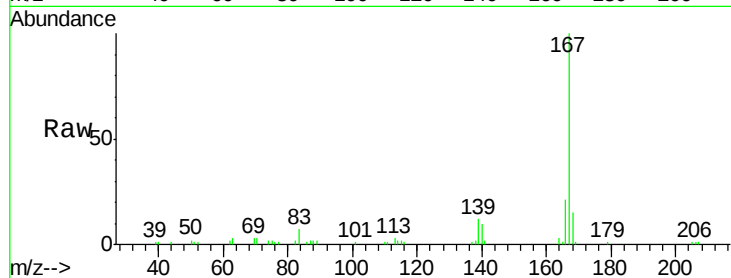
Tgt Ion:167 Resp: 38338

Ion Ratio Lower Upper

167 100

166 21.1 17.0 25.4

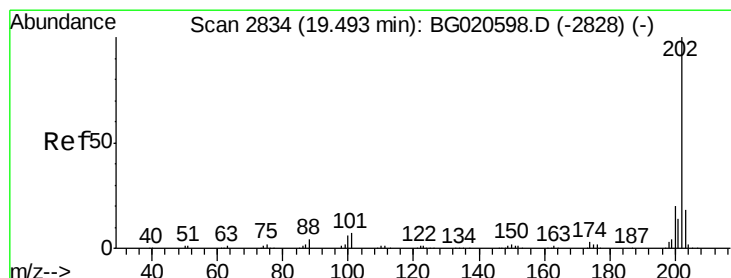
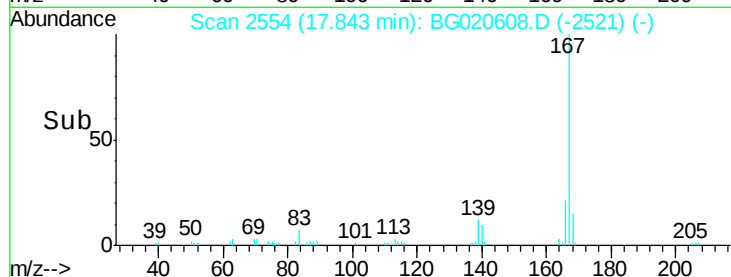
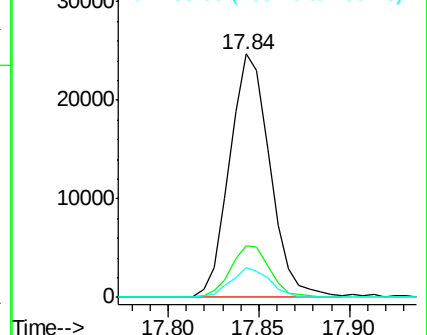
139 12.3 9.1 13.7



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: 4.06 ng/ul

RT: 19.49 min Scan# 2834

Delta R.T. -0.00 min

Lab File: BG020608.D

Acq: 30 Dec 2015 14:36

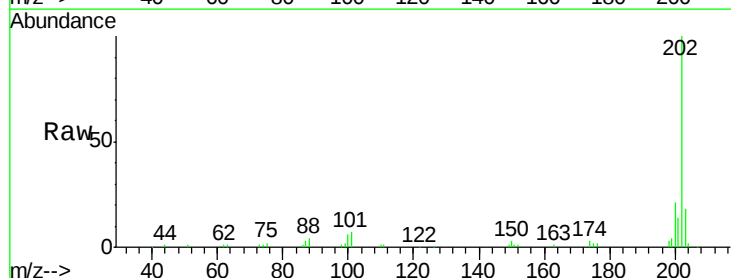
Tgt Ion:202 Resp: 49353

Ion Ratio Lower Upper

202 100

101 7.2 6.1 9.1

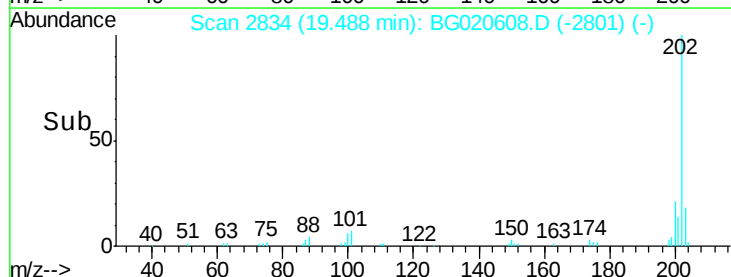
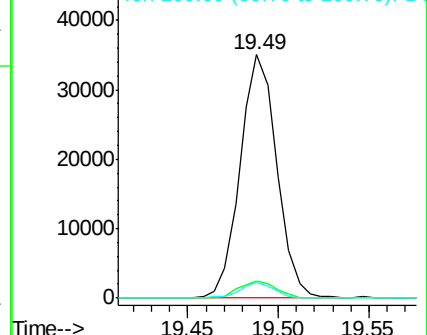
100 6.3 4.6 7.0

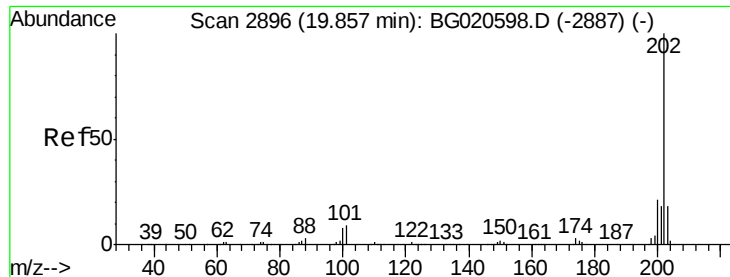


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#80

Pyrene

Concen: 2.46 ng/ul

RT: 19.85 min Scan# 2896

Delta R.T. -0.00 min

Lab File: BG020608.D

Acq: 30 Dec 2015 14:36

Instrument :

BNA\_G

ClientSampleId :

D9N55

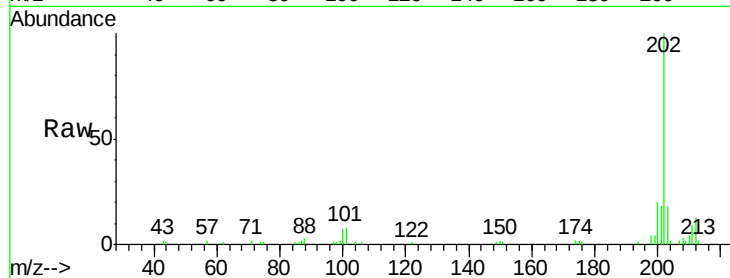
Tgt Ion: 202 Resp: 31183

Ion Ratio Lower Upper

202 100

101 7.6 6.9 10.3

100 7.3 5.6 8.4



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

