

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121016\  
 Data File : BG025106.D  
 Acq On : 11 Dec 2016 16:51  
 Operator : UM/SJ  
 Sample : H5863-14DL 5X  
 Misc :  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Dec 12 08:19:13 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Dec 12 08:16:15 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.24  | 152  | 145512   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.06 | 136  | 635976   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.86 | 164  | 487090   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.60 | 188  | 978951   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.90 | 240  | 1230749  | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.32 | 264  | 1296996  | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.60  | 96  | 3785   | 1.34 | ng/uL | 0.01 |
| 5) Phenol-d5                   | 7.38  | 99  | 70738  | 5.63 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.55  | 67  | 49159  | 6.33 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.77  | 132 | 49501  | 5.64 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.94  | 113 | 60416  | 5.76 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.41  | 128 | 27194  | 6.04 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.14 | 143 | 33463  | 5.96 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.69 | 165 | 62872  | 5.82 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.21 | 131 | 75252  | 7.09 | ng/ul | 0.01 |
| 43) Dimethylphthalate-d6       | 14.25 | 166 | 204646 | 6.11 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.56 | 160 | 244061 | 6.65 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.07 | 143 | 41095  | 7.14 | ng/ul | 0.02 |
| 57) Fluorene-d10               | 15.85 | 176 | 211331 | 6.70 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.97 | 200 | 37058  | 6.12 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.70 | 188 | 292379 | 7.08 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.98 | 212 | 329459 | 6.50 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.06 | 264 | 333531 | 6.35 | ng/ul | 0.00 |

## Target Compounds

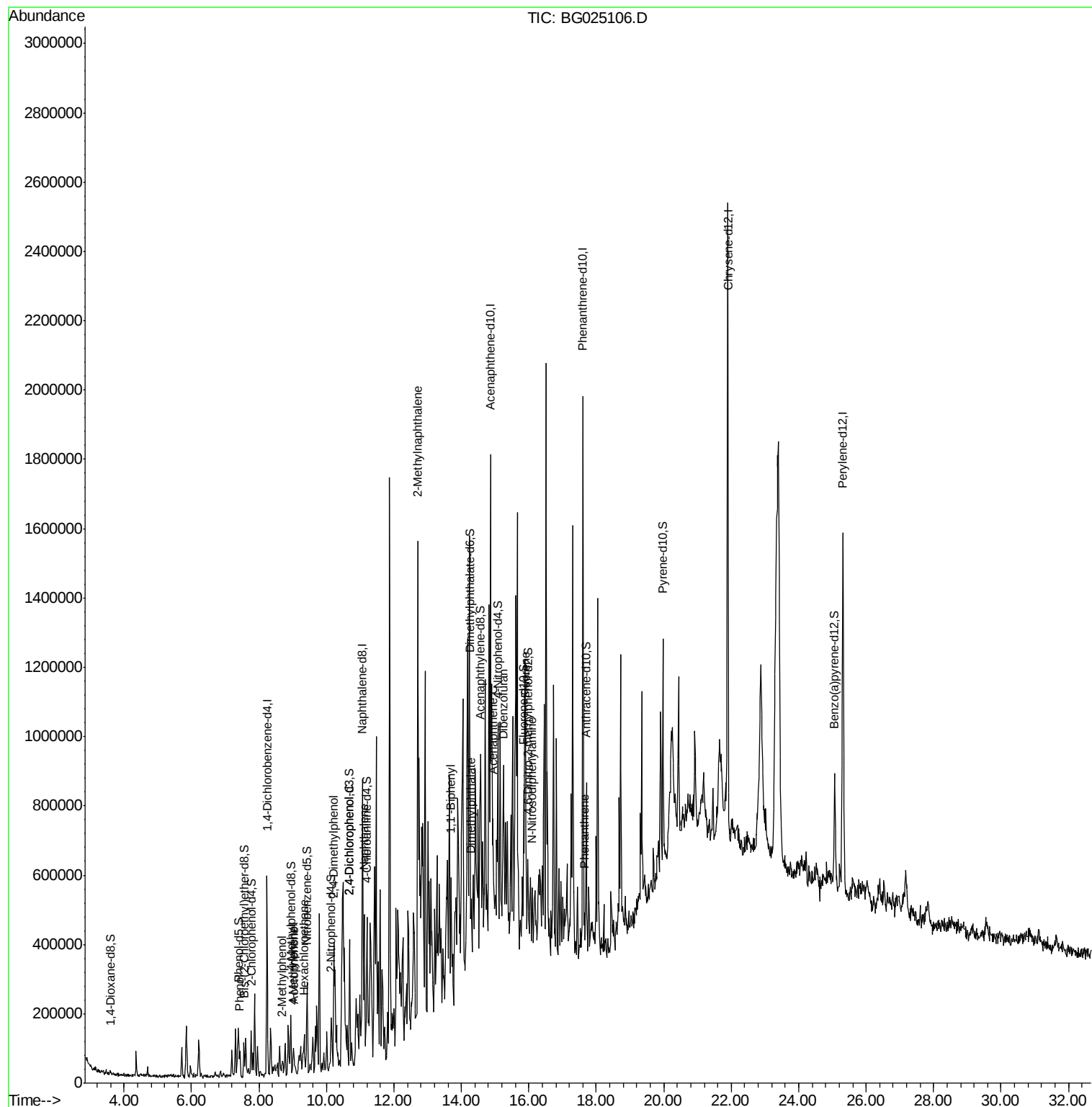
|                            |       |     |        |       |        | Ovalue |
|----------------------------|-------|-----|--------|-------|--------|--------|
| 6) Phenol                  | 7.42  | 94  | 14814  | 1.15  | ng/ul# | 82     |
| 11) 2-Methylphenol         | 8.68  | 108 | 13623  | 1.44  | ng/ul  | 81     |
| 14) Acetophenone           | 9.03  | 105 | 46791  | 2.93  | ng/ul# | 30     |
| 16) 4-Methylphenol         | 9.01  | 108 | 22798  | 2.16  | ng/ul  | 86     |
| 17) Hexachloroethane       | 9.35  | 117 | 14260  | 3.65  | ng/ul# | 1      |
| 24) 2,4-Dimethylphenol     | 10.22 | 107 | 127379 | 9.78  | ng/ul  | 95     |
| 27) 2,4-Dichlorophenol     | 10.69 | 162 | 18105  | 1.73  | ng/ul# | 27     |
| 28) Naphthalene            | 11.12 | 128 | 301935 | 10.21 | ng/ul  | 98     |
| 34) 2-Methylnaphthalene    | 12.71 | 142 | 638843 | 27.38 | ng/ul  | 94     |
| 40) 1,1'-Biphenyl          | 13.70 | 154 | 201728 | 6.83  | ng/ul  | 94     |
| 44) Dimethylphthalate      | 14.30 | 163 | 37177  | 1.13  | ng/ul# | 96     |
| 49) Acenaphthene           | 14.93 | 153 | 52916  | 2.16  | ng/ul# | 91     |
| 53) Dibenzofuran           | 15.26 | 168 | 146147 | 3.78  | ng/ul  | 98     |
| 58) Fluorene               | 15.90 | 166 | 158595 | 5.04  | ng/ul# | 97     |
| 64) N-Nitrosodiphenylamine | 16.10 | 169 | 33056  | 1.31  | ng/ul# | 61     |
| 69) Phenanthrene           | 17.64 | 178 | 76168  | 1.63  | ng/ul# | 92     |

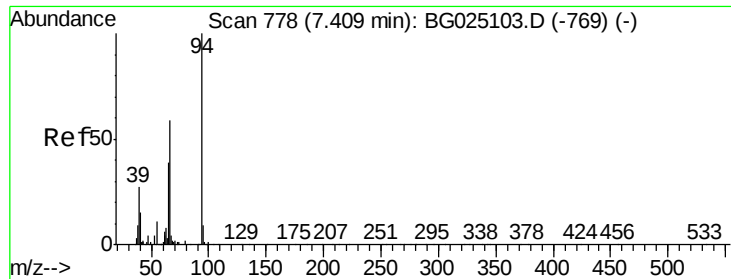
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SVOA CALIBRATION  
QLast Update : Mon Dec 12 08:16:15 2016  
Response via : Initial Calibration





#6

Phenol

Concen: 1.15 ng/ul

RT: 7.42 min Scan# 780

Delta R.T. 0.01 min

Lab File: BG025106.D

Acq: 11 Dec 2016 16:51

Instrument :

BNA\_G

ClientSampleId :

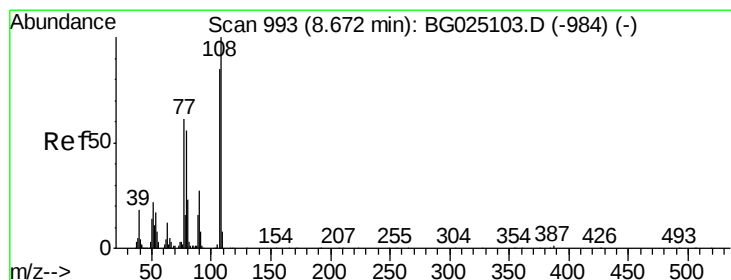
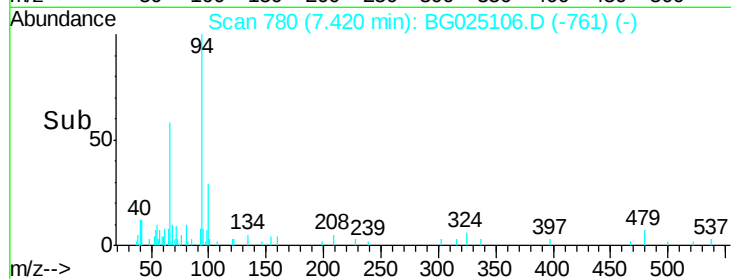
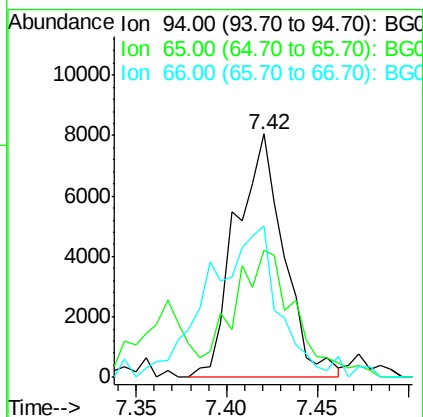
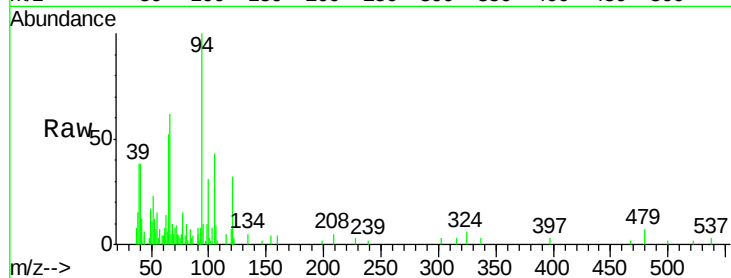
Tot Ion: 94 Resp: 14814

Ion Ratio Lower Upper

94 100

65 52.2 26.8 40.2#

66 62.0 44.4 66.6



#11

2-Methylphenol

Concen: 1.44 ng/ul

RT: 8.68 min Scan# 994

Delta R.T. 0.01 min

Lab File: BG025106.D

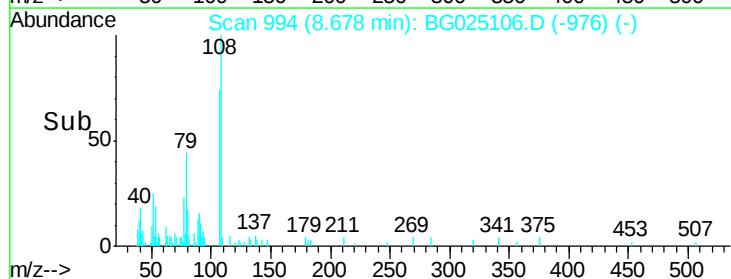
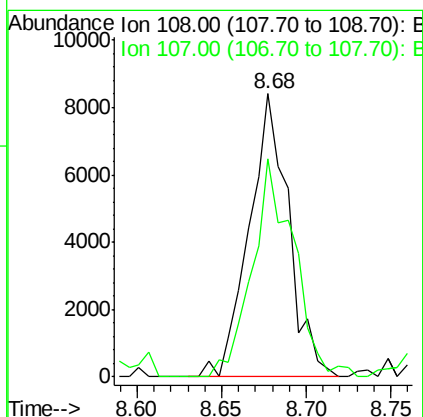
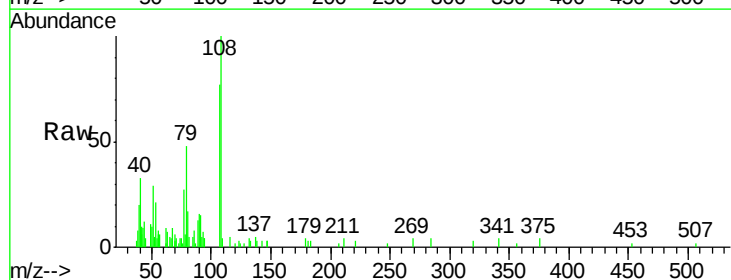
Acq: 11 Dec 2016 16:51

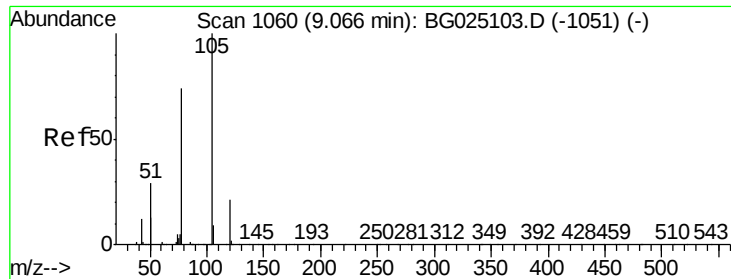
Tgt Ion: 108 Resp: 13623

Ion Ratio Lower Upper

108 100

107 77.2 76.7 115.1





#14

Acetophenone

Concen: 2.93 ng/ul

RT: 9.03 min Scan# 1054

Delta R.T. -0.04 min

Lab File: BG025106.D

Acq: 11 Dec 2016 16:51

Instrument :

BNA\_G

ClientSampleId :

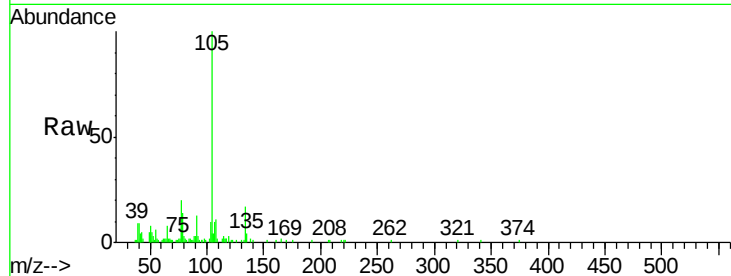
Tot Ion:105 Resp: 46791

Ion Ratio Lower Upper

105 100

77 19.9 76.0 114.0#

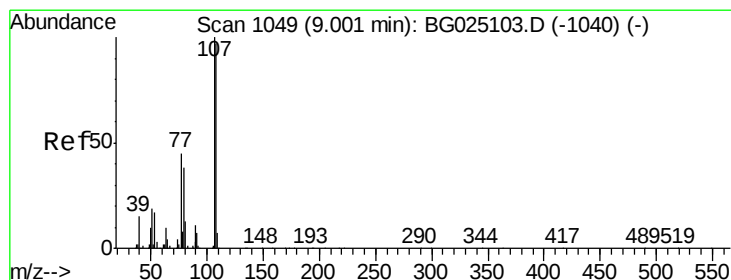
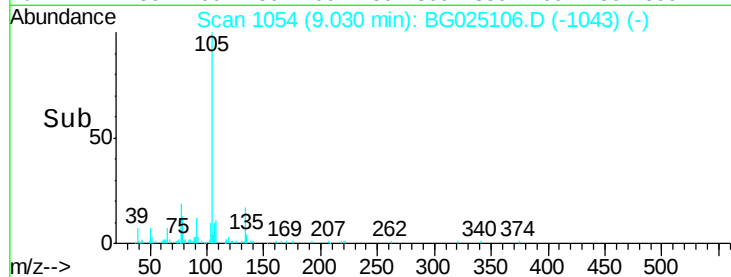
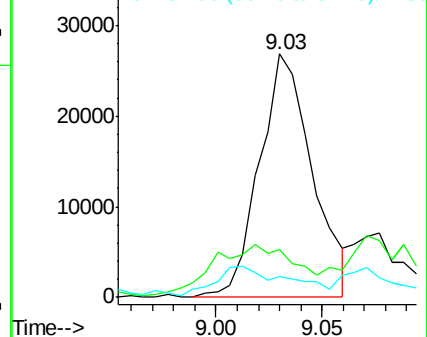
51 8.5 34.8 52.2#



Abundance Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BG0

Ion 51.00 (50.70 to 51.70): BG0



#16

4-Methylphenol

Concen: 2.16 ng/ul

RT: 9.01 min Scan# 1051

Delta R.T. 0.01 min

Lab File: BG025106.D

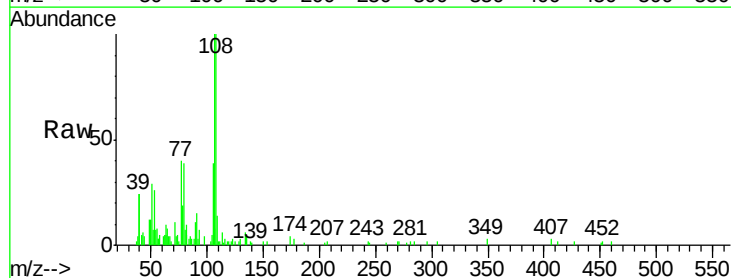
Acq: 11 Dec 2016 16:51

Tgt Ion:108 Resp: 22798

Ion Ratio Lower Upper

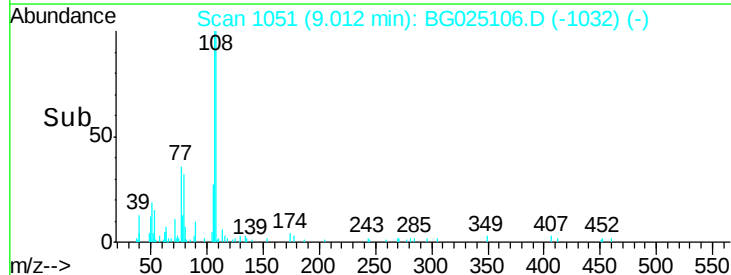
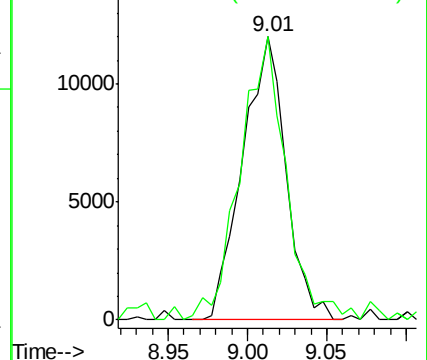
108 100

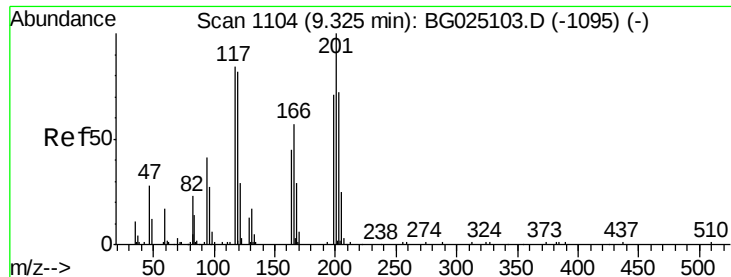
107 99.9 91.7 137.5



Abundance Ion 108.00 (107.70 to 108.70): E

Ion 107.00 (106.70 to 107.70): E





#17

Hexachloroethane

Concen: 3.65 ng/ul

RT: 9.35 min Scan# 1108

Delta R.T. 0.02 min

Lab File: BG025106.D

Acq: 11 Dec 2016 16:51

Instrument :

BNA\_G

ClientSampleId :

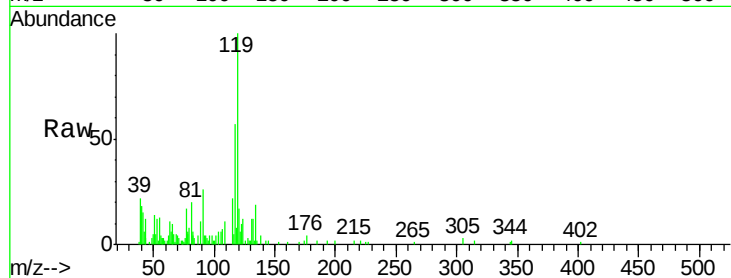
Tot Ion:117 Resp: 14260

Ion Ratio Lower Upper

117 100

201 0.0 91.9 137.9#

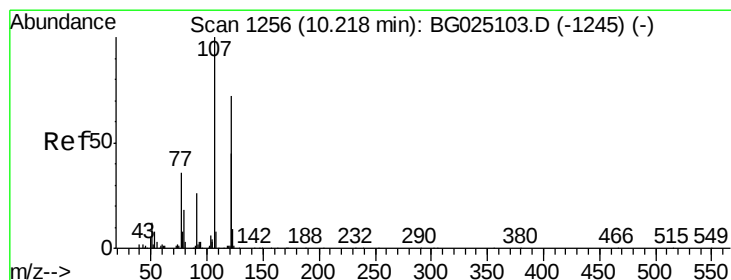
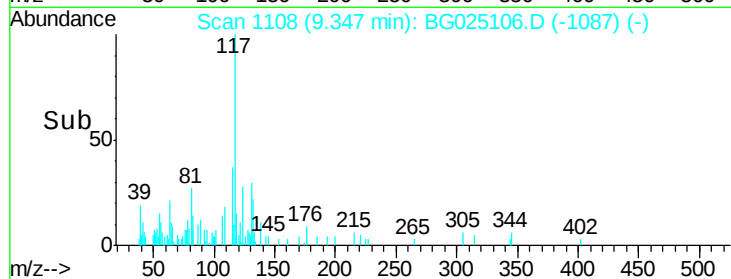
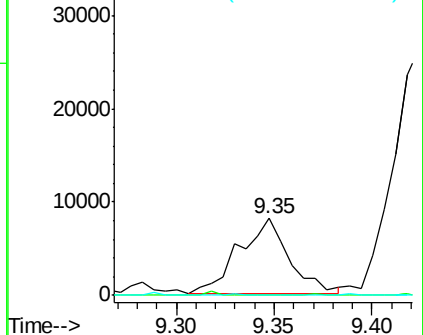
199 0.0 64.3 96.5#



Abundance Ion 117.00 (116.70 to 117.70): E

Ion 201.00 (200.70 to 201.70): E

Ion 199.00 (198.70 to 199.70): E



#24

2,4-Dimethylphenol

Concen: 9.78 ng/ul

RT: 10.22 min Scan# 1257

Delta R.T. 0.01 min

Lab File: BG025106.D

Acq: 11 Dec 2016 16:51

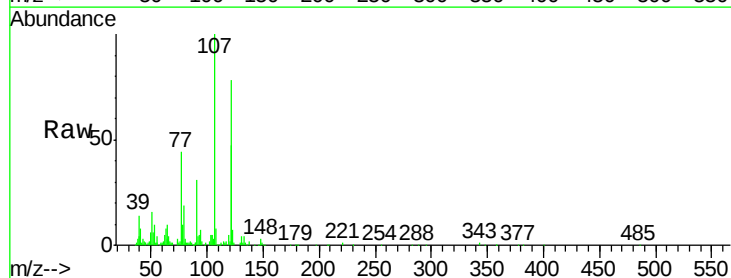
Tgt Ion:107 Resp: 127379

Ion Ratio Lower Upper

107 100

121 46.8 32.3 48.5

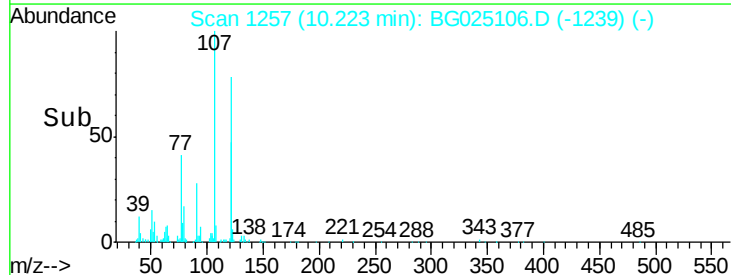
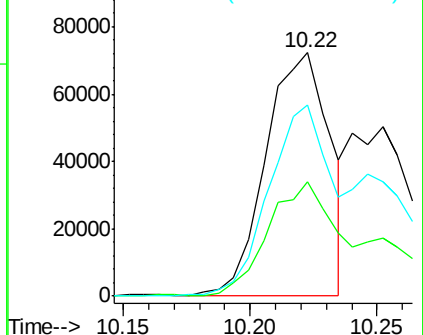
122 78.5 61.2 91.8

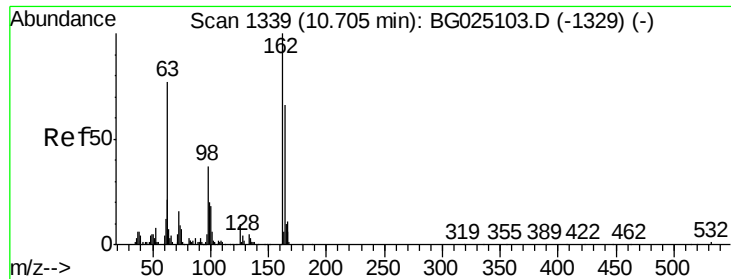


Abundance Ion 107.00 (106.70 to 107.70): E

Ion 121.00 (120.70 to 121.70): E

Ion 122.00 (121.70 to 122.70): E

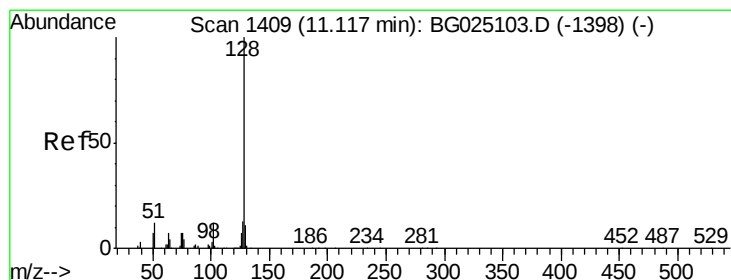
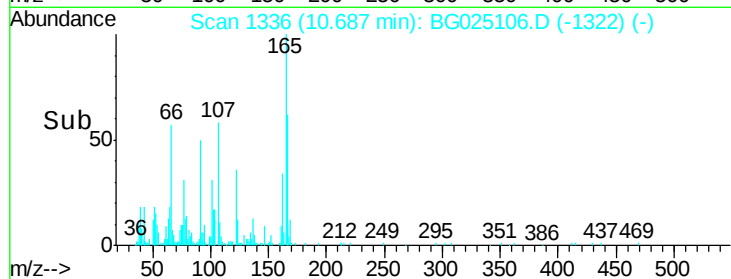
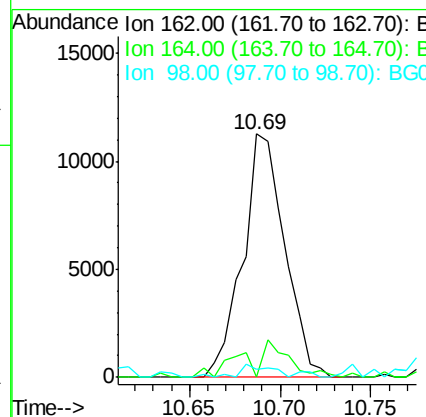
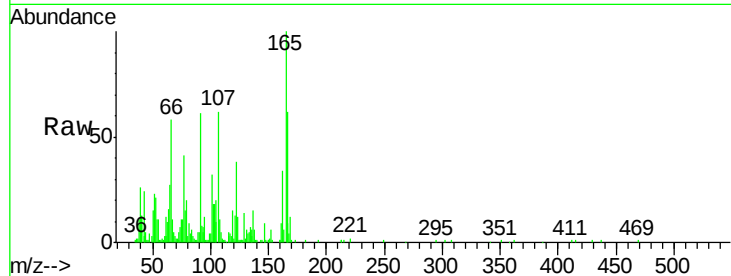




#27  
 2,4-Dichlorophenol  
 Concen: 1.73 ng/ul  
 RT: 10.69 min Scan# 1336  
 Delta R.T. -0.02 min  
 Lab File: BG025106.D  
 Acq: 11 Dec 2016 16:51

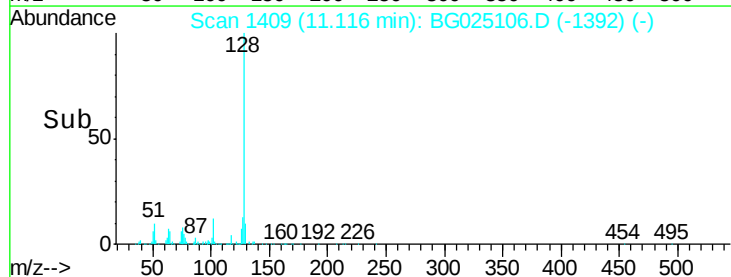
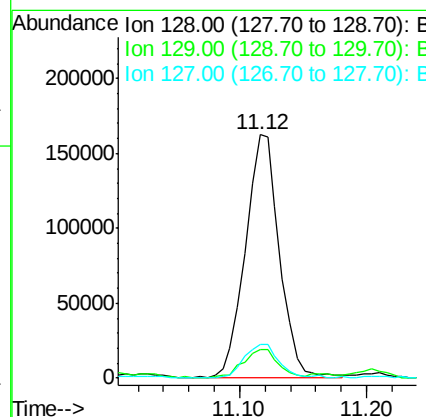
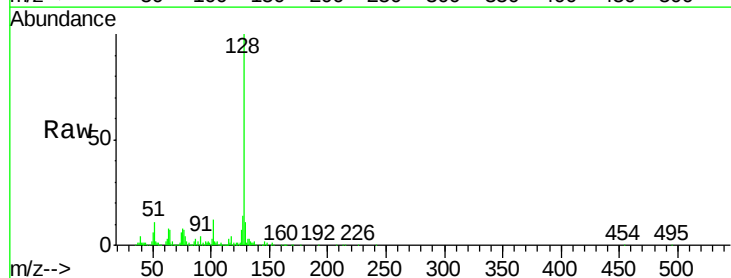
Instrument :  
 BNA\_G  
 ClientSampleId :

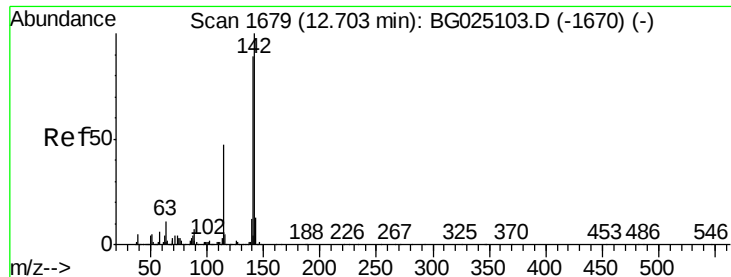
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 162     | 100   |       |       |
| 164     | 0.0   | 50.8  | 76.2# |
| 98      | 3.3   | 32.1  | 48.1# |



#28  
 Naphthalene  
 Concen: 10.21 ng/ul  
 RT: 11.12 min Scan# 1409  
 Delta R.T. -0.00 min  
 Lab File: BG025106.D  
 Acq: 11 Dec 2016 16:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.5  | 9.4   | 14.2  |
| 127     | 13.8  | 10.3  | 15.5  |

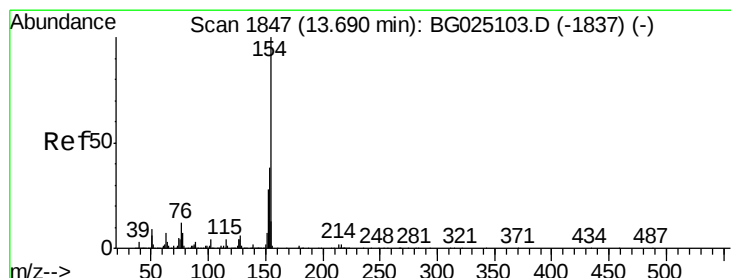
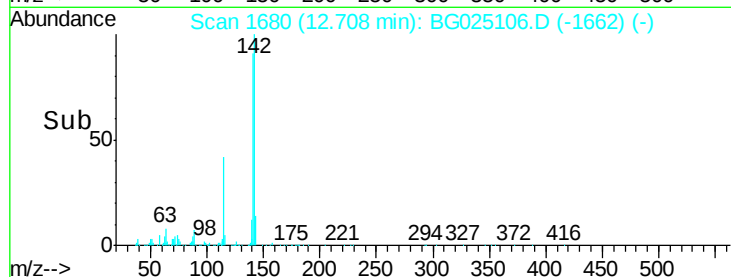
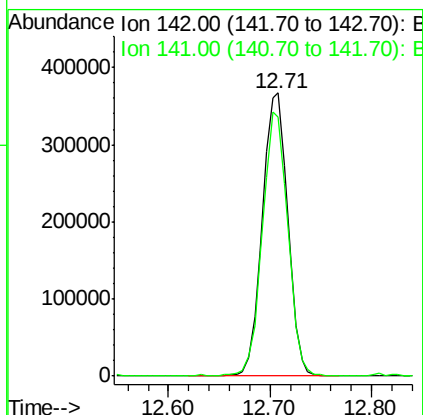
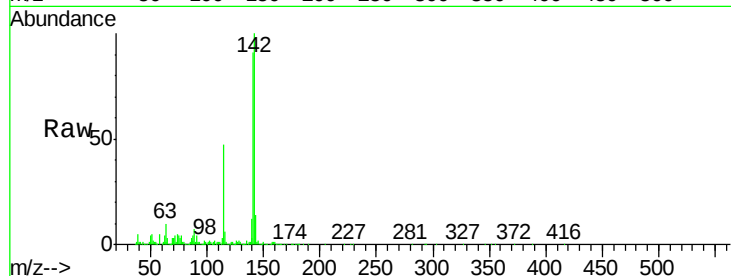




#34  
2-Methylnaphthalene  
Concen: 27.38 ng/ul  
RT: 12.71 min Scan# 1680  
Delta R.T. 0.01 min  
Lab File: BG025106.D  
Acq: 11 Dec 2016 16:51

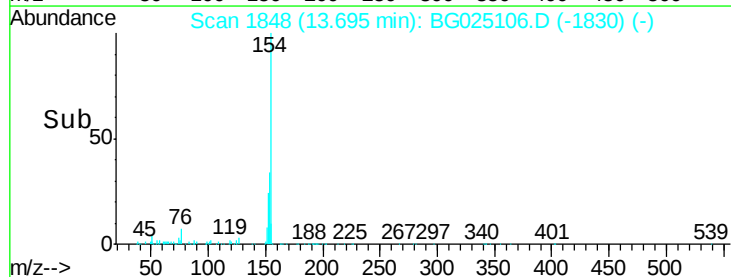
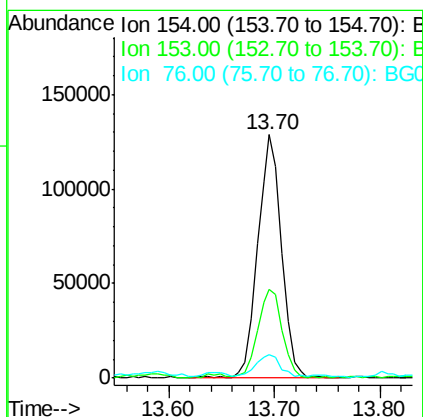
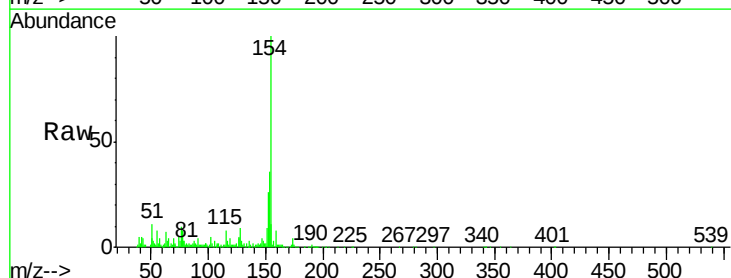
Instrument :  
BNA\_G  
ClientSampleId :

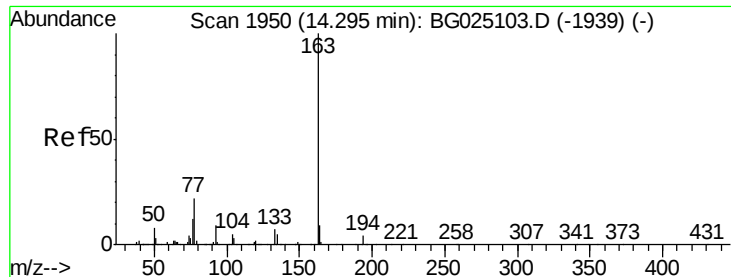
Tot Ion:142 Resp: 638843  
Ion Ratio Lower Upper  
142 100  
141 91.3 68.6 102.8



#40  
1,1'-Biphenyl  
Concen: 6.83 ng/ul  
RT: 13.70 min Scan# 1848  
Delta R.T. 0.01 min  
Lab File: BG025106.D  
Acq: 11 Dec 2016 16:51

Tgt Ion:154 Resp: 201728  
Ion Ratio Lower Upper  
154 100  
153 36.2 32.2 48.2  
76 9.9 9.6 14.4

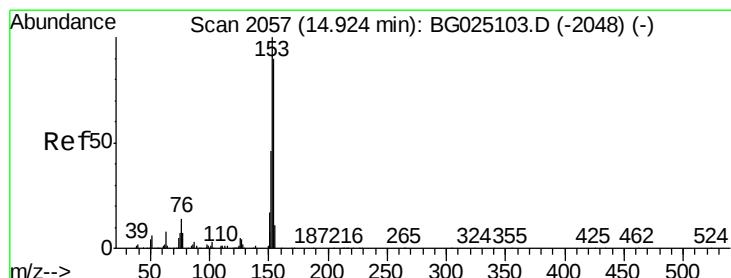
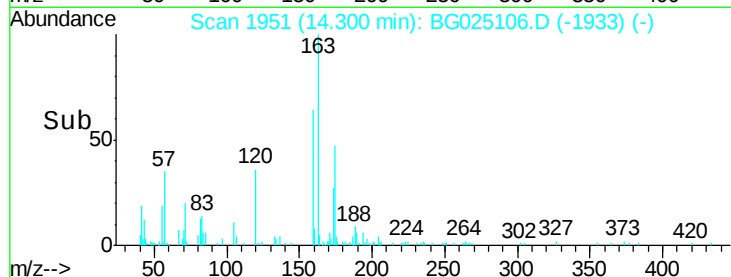
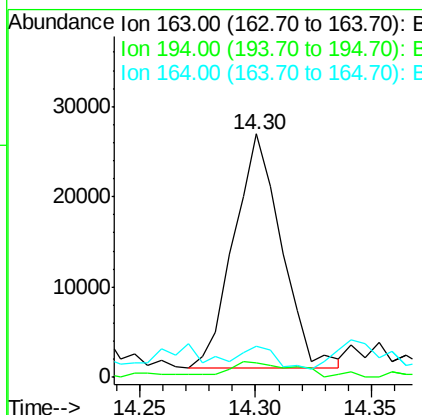
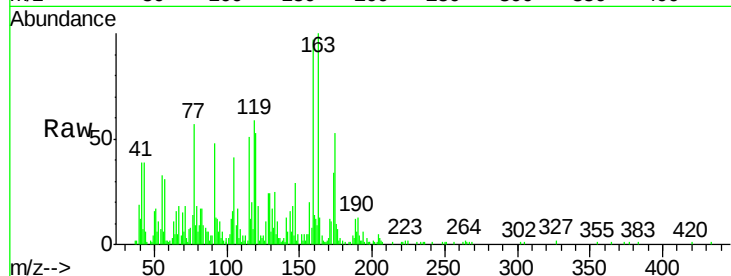




#44  
Dimethylphthalate  
Concen: 1.13 ng/ul  
RT: 14.30 min Scan# 1951  
Delta R.T. 0.01 min  
Lab File: BG025106.D  
Acq: 11 Dec 2016 16:51

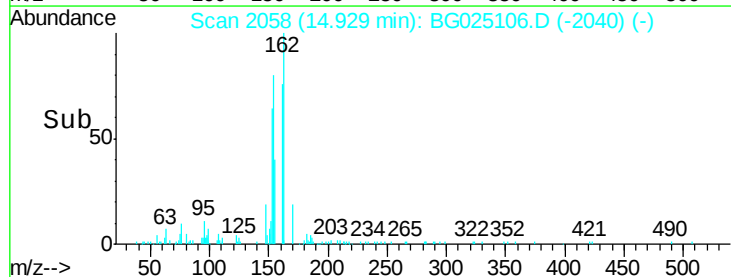
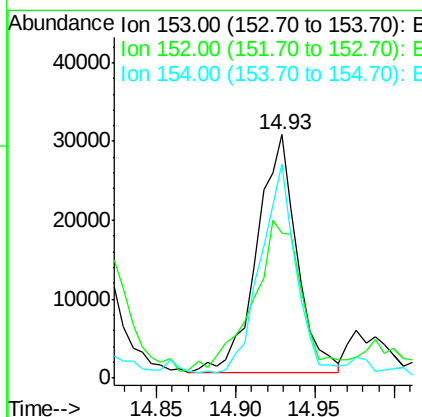
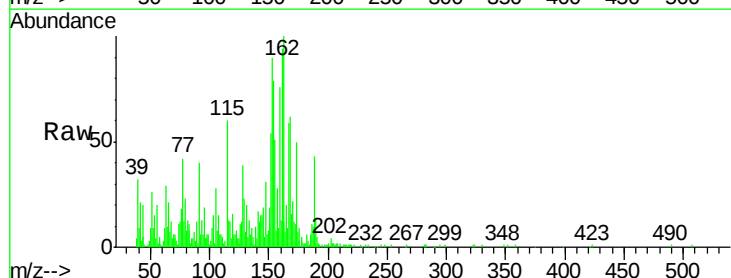
Instrument :  
BNA\_G  
ClientSampleId :

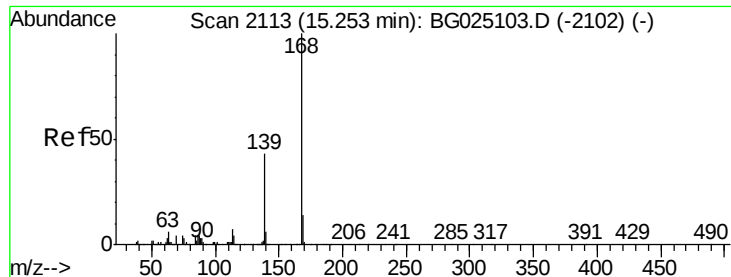
Tot Ion:163 Resp: 37177  
Ion Ratio Lower Upper  
163 100  
194 5.9 3.4 5.0#  
164 12.8 9.0 13.4



#49  
Acenaphthene  
Concen: 2.16 ng/ul  
RT: 14.93 min Scan# 2058  
Delta R.T. 0.01 min  
Lab File: BG025106.D  
Acq: 11 Dec 2016 16:51

Tgt Ion:153 Resp: 52916  
Ion Ratio Lower Upper  
153 100  
152 59.5 36.5 54.7#  
154 87.9 72.3 108.5





#53

Dibenzofuran

Concen: 3.78 ng/ul

RT: 15.26 min Scan# 2114

Delta R.T. 0.01 min

Lab File: BG025106.D

Acq: 11 Dec 2016 16:51

Instrument :

BNA\_G

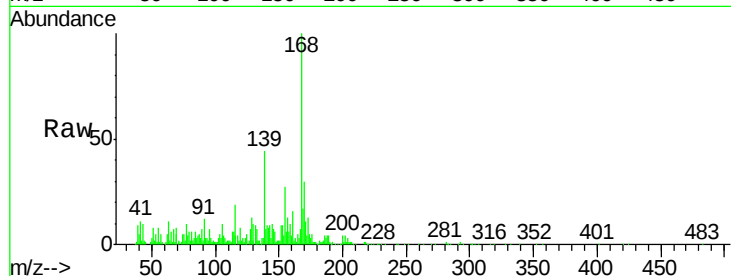
ClientSampleId :

Tot Ion:168 Resp: 146147

Ion Ratio Lower Upper

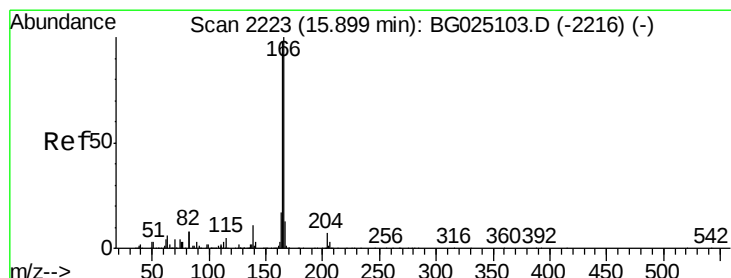
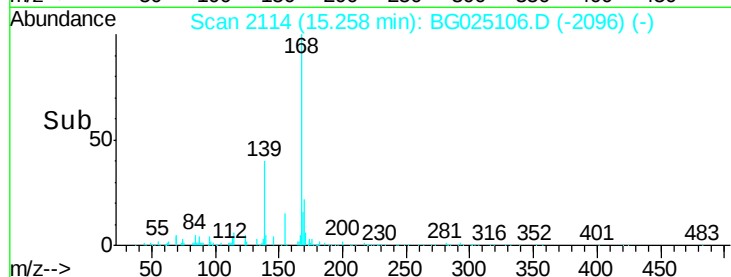
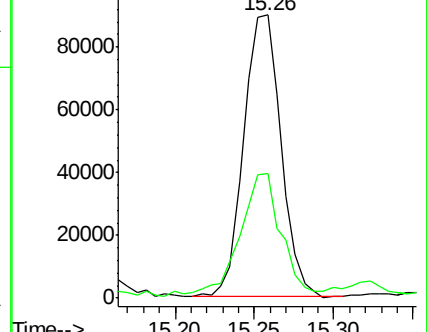
168 100

139 43.8 33.8 50.8



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#58

Fluorene

Concen: 5.04 ng/ul

RT: 15.90 min Scan# 2224

Delta R.T. 0.01 min

Lab File: BG025106.D

Acq: 11 Dec 2016 16:51

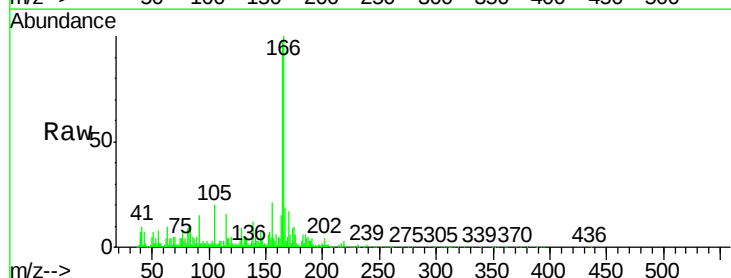
Tgt Ion:166 Resp: 158595

Ion Ratio Lower Upper

166 100

165 98.0 79.7 119.5

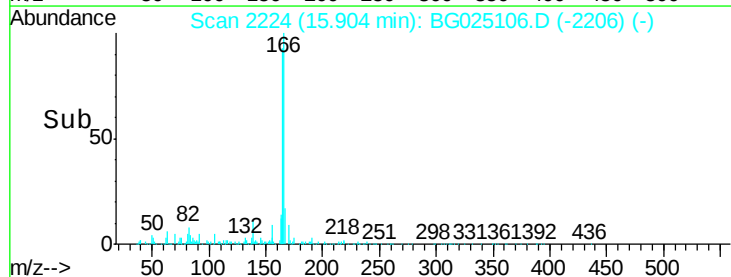
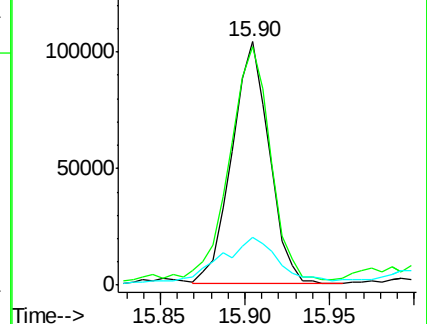
167 19.4 11.4 17.2#

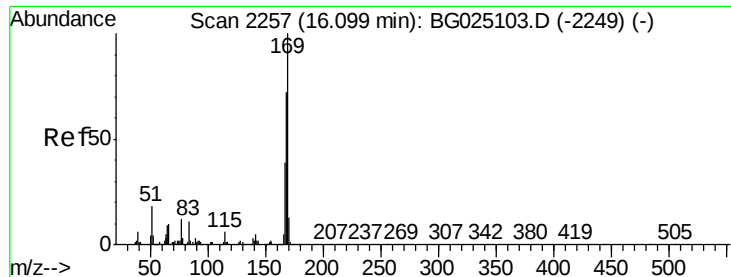


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#64

N-Nitrosodiphenylamine

Concen: 1.31 ng/ul

RT: 16.10 min Scan# 2258

Delta R.T. 0.01 min

Lab File: BG025106.D

Acq: 11 Dec 2016 16:51

Instrument :

BNA\_G

ClientSampleId :

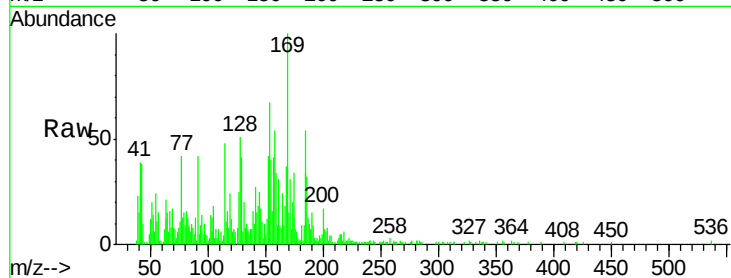
Tot Ion:169 Resp: 33056

Ion Ratio Lower Upper

169 100

168 37.1 59.1 88.7#

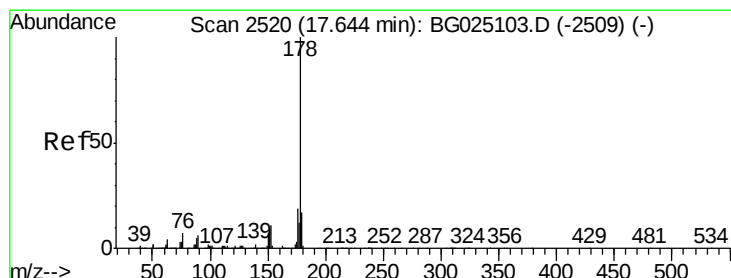
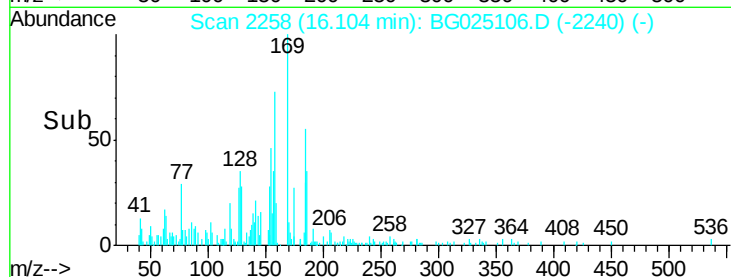
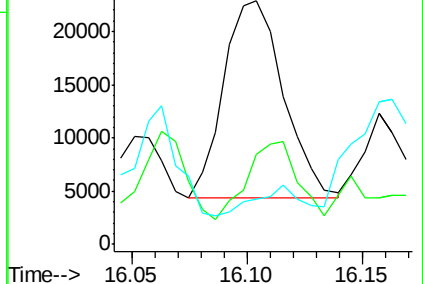
167 18.4 29.7 44.5#



Abundance Ion 169.00 (168.70 to 169.70): E

Ion 168.00 (167.70 to 168.70): E

Ion 167.00 (166.70 to 167.70): E



#69

Phenanthrene

Concen: 1.63 ng/ul

RT: 17.64 min Scan# 2520

Delta R.T. -0.00 min

Lab File: BG025106.D

Acq: 11 Dec 2016 16:51

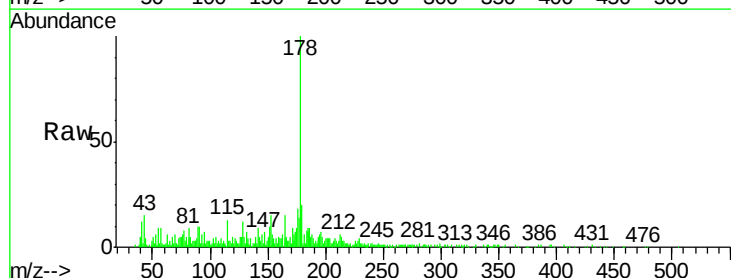
Tgt Ion:178 Resp: 76168

Ion Ratio Lower Upper

178 100

179 20.1 12.4 18.6#

176 17.7 16.5 24.7



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

