

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121716\  
 Data File : BG025294.D  
 Acq On : 18 Dec 2016 4:01  
 Operator : UM/SJ  
 Sample : H5938-10DL 5X  
 Misc :  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Dec 18 06:09:07 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sun Dec 18 03:57:56 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.23  | 152  | 68559    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.06 | 136  | 264988   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.86 | 164  | 200380   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.60 | 188  | 441923   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.90 | 240  | 579802   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.32 | 264  | 568829   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |       |
|--------------------------------|-------|-----|--------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.57  | 96  | 2995   | 2.26  | ng/uL | -0.02 |
| 5) Phenol-d5                   | 7.40  | 99  | 21679  | 3.67  | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.54  | 67  | 18689  | 5.11  | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.76  | 132 | 17201  | 4.16  | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.95  | 113 | 21065  | 4.26  | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 9.42  | 128 | 10708  | 5.71  | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 10.14 | 143 | 10519  | 4.50  | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.69 | 165 | 19448  | 4.32  | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 11.20 | 131 | 66539  | 15.05 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 14.25 | 166 | 66469  | 4.82  | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 14.56 | 160 | 78474  | 5.20  | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 15.11 | 143 | 9177   | 3.87  | ng/ul | 0.02  |
| 57) Fluorene-d10               | 15.85 | 176 | 76300  | 5.88  | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.99 | 200 | 6379   | 2.33  | ng/ul | 0.01  |
| 70) Anthracene-d10             | 17.70 | 188 | 98372  | 5.27  | ng/ul | 0.00  |
| 76) Pyrene-d10                 | 19.97 | 212 | 121674 | 5.09  | ng/ul | 0.00  |
| 87) Benzo(a)pyrene-d12         | 25.08 | 264 | 116496 | 5.05  | ng/ul | -0.01 |

## Target Compounds

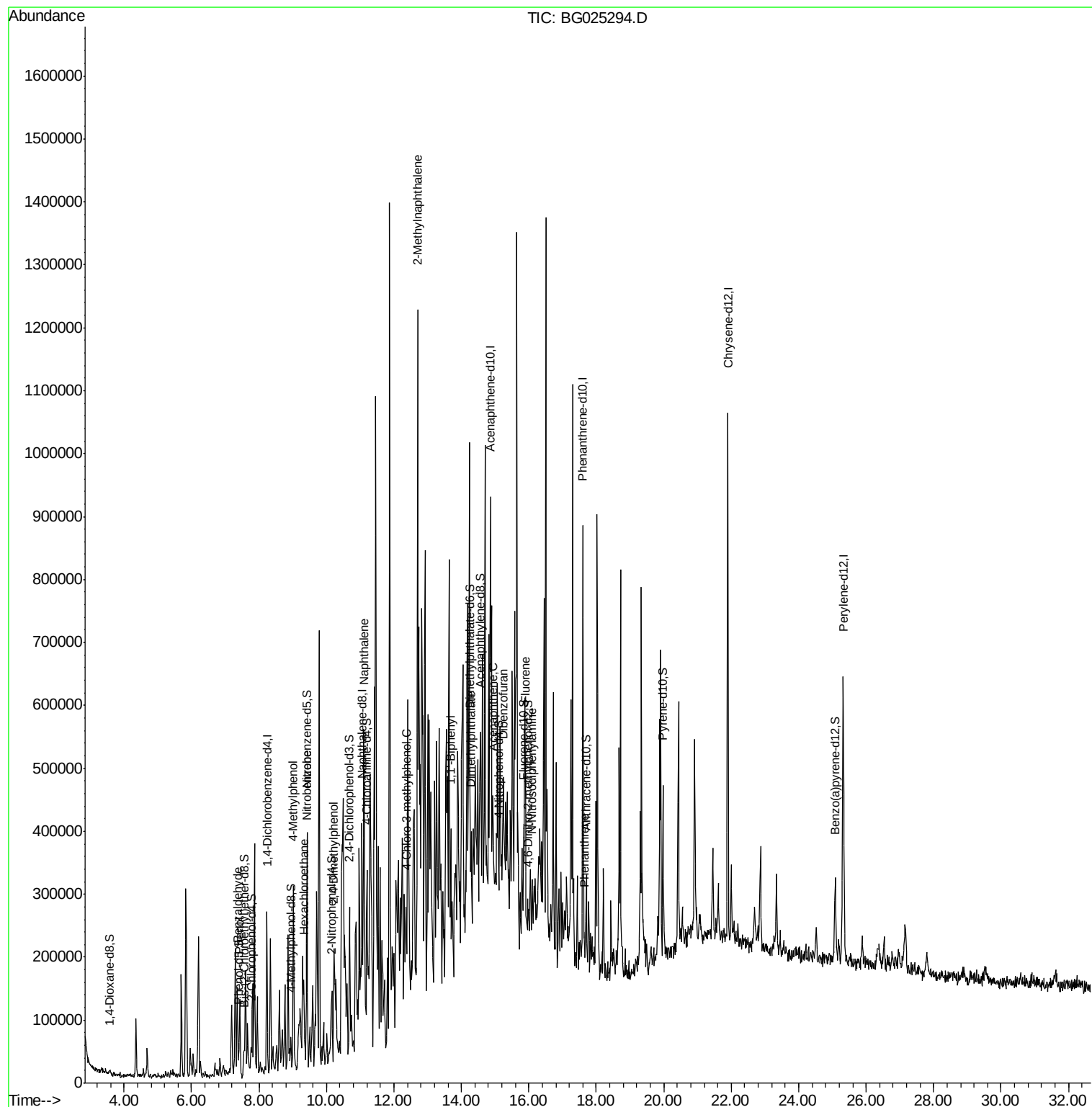
|                             |       |     |        |       | Ovalue    |
|-----------------------------|-------|-----|--------|-------|-----------|
| 4) Benzaldehyde             | 7.35  | 77  | 12659  | 2.84  | ng/ul# 1  |
| 6) Phenol                   | 7.43  | 94  | 10783  | 1.78  | ng/ul# 65 |
| 16) 4-Methylphenol          | 9.02  | 108 | 73026  | 14.69 | ng/ul 87  |
| 17) Hexachloroethane        | 9.33  | 117 | 17556  | 9.53  | ng/ul# 1  |
| 20) Nitrobenzene            | 9.43  | 77  | 6124   | 1.06  | ng/ul# 55 |
| 24) 2,4-Dimethylphenol      | 10.22 | 107 | 55102  | 10.15 | ng/ul 94  |
| 28) Naphthalene             | 11.11 | 128 | 351884 | 28.57 | ng/ul# 96 |
| 33) 4-Chloro-3-methylphenol | 12.37 | 107 | 6459   | 1.20  | ng/ul# 42 |
| 34) 2-Methylnaphthalene     | 12.70 | 142 | 487087 | 50.11 | ng/ul 93  |
| 40) 1,1'-Biphenyl           | 13.69 | 154 | 114411 | 9.42  | ng/ul 98  |
| 44) Dimethylphthalate       | 14.29 | 163 | 50625  | 3.74  | ng/ul# 95 |
| 49) Acenaphthene            | 14.92 | 153 | 24758  | 2.46  | ng/ul# 89 |
| 53) Dibenzofuran            | 15.25 | 168 | 68659  | 4.32  | ng/ul 90  |
| 58) Fluorene                | 15.90 | 166 | 77675  | 6.00  | ng/ul 98  |
| 64) N-Nitrosodiphenylamine  | 16.10 | 169 | 15314  | 1.35  | ng/ul# 57 |
| 69) Phenanthrene            | 17.64 | 178 | 44307  | 2.10  | ng/ul# 91 |

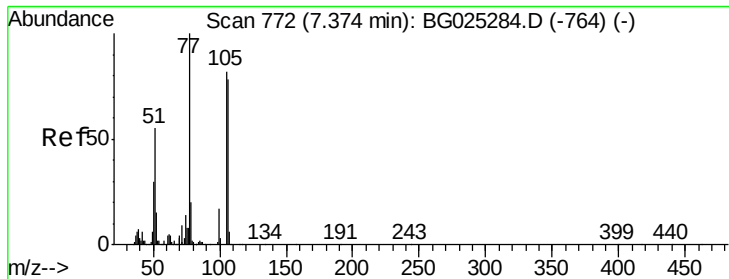
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_G  
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Quant Title : SVOA CALIBRATION  
QLast Update : Sun Dec 18 03:57:56 2016  
Response via : Initial Calibration





#4

Benzaldehyde

Concen: 2.84 ng/ul

RT: 7.35 min Scan# 768

Delta R.T. -0.02 min

Lab File: BG025294.D

Acq: 18 Dec 2016 4:01

Instrument :

BNA\_G

ClientSampled :

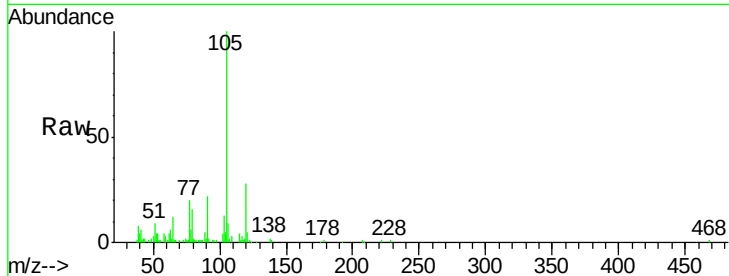
Tot Ion: 77 Resp: 12659

Ion Ratio Lower Upper

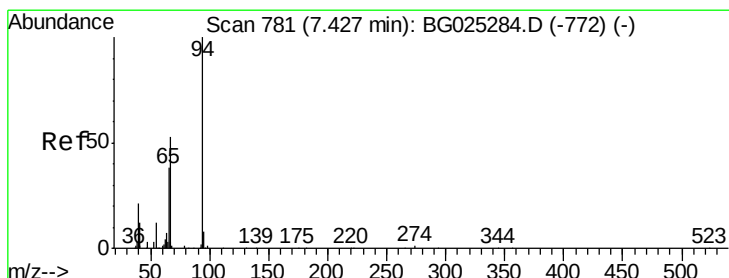
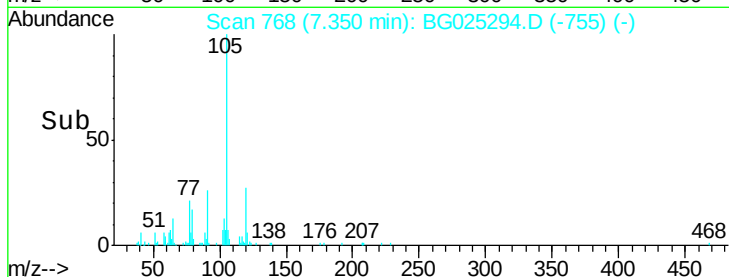
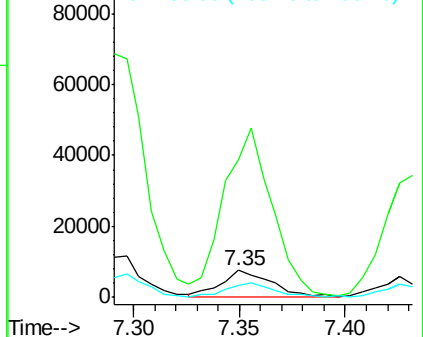
77 100

105 511.4 62.0 93.0#

106 46.2 60.2 90.4#



Abundance Ion 77.00 (76.70 to 77.70): BGC  
Ion 105.00 (104.70 to 105.70): BGC  
Ion 106.00 (105.70 to 106.70): BGC



#6

Phenol

Concen: 1.78 ng/ul

RT: 7.43 min Scan# 781

Delta R.T. -0.00 min

Lab File: BG025294.D

Acq: 18 Dec 2016 4:01

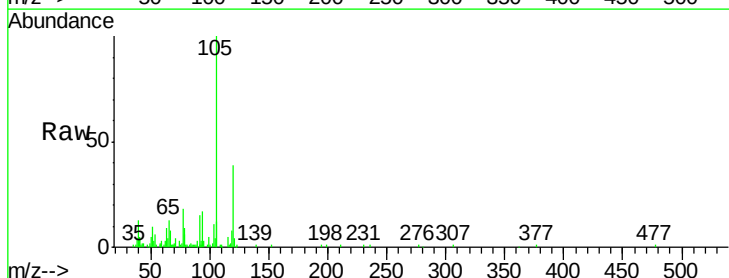
Tgt Ion: 94 Resp: 10783

Ion Ratio Lower Upper

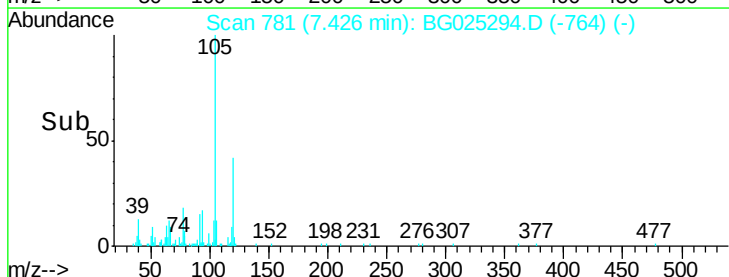
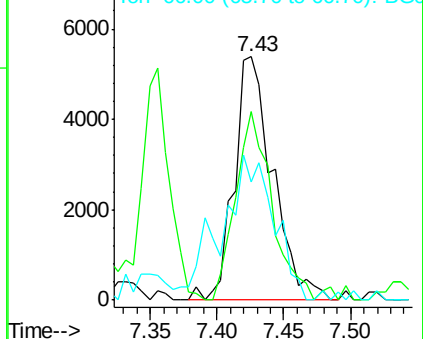
94 100

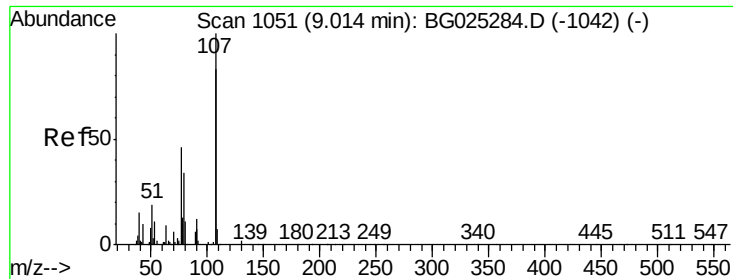
65 77.5 26.8 40.2#

66 48.4 44.4 66.6



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC





#16

4-Methylphenol

Concen: 14.69 ng/ul

RT: 9.02 min Scan# 1052

Delta R.T. 0.00 min

Lab File: BG025294.D

Acq: 18 Dec 2016 4:01

Instrument :

BNA\_G

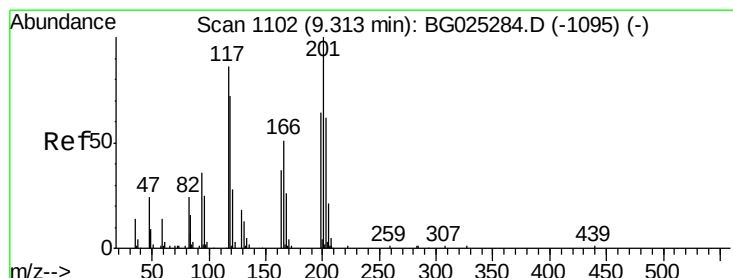
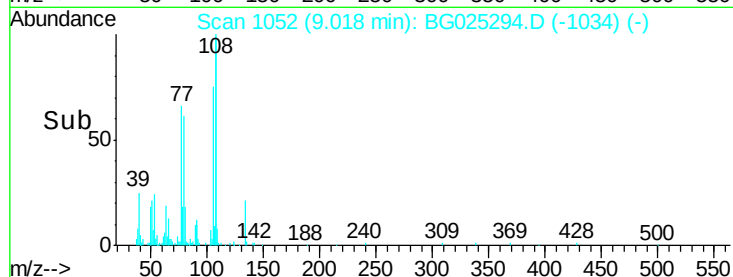
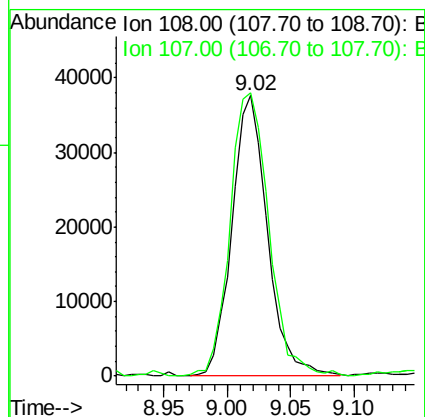
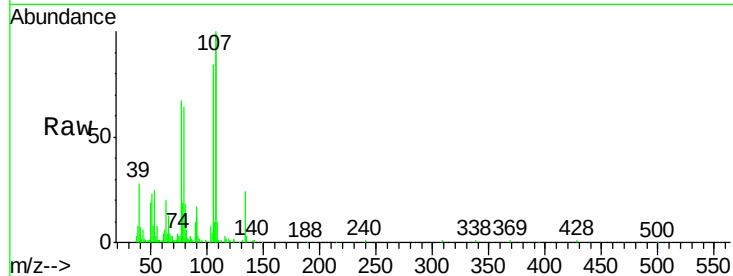
ClientSampleId :

Tot Ion:108 Resp: 73026

Ion Ratio Lower Upper

108 100

107 101.0 91.7 137.5



#17

Hexachloroethane

Concen: 9.53 ng/ul

RT: 9.33 min Scan# 1105

Delta R.T. 0.02 min

Lab File: BG025294.D

Acq: 18 Dec 2016 4:01

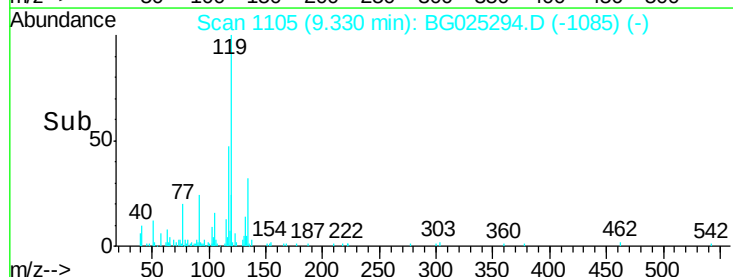
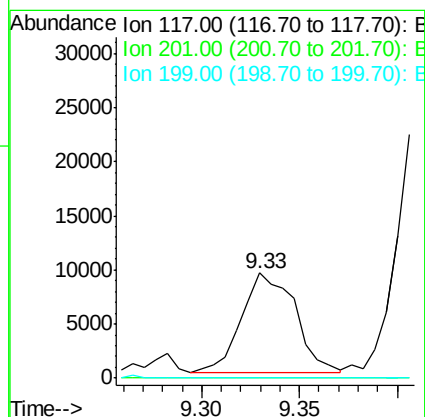
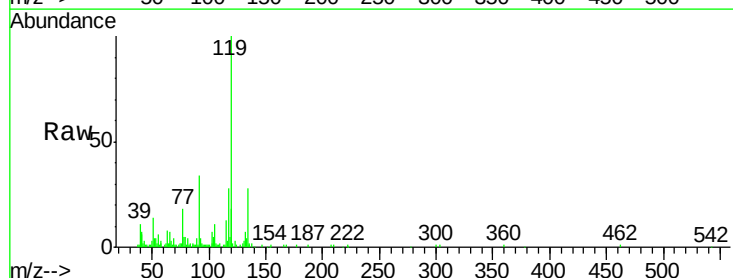
Tgt Ion:117 Resp: 17556

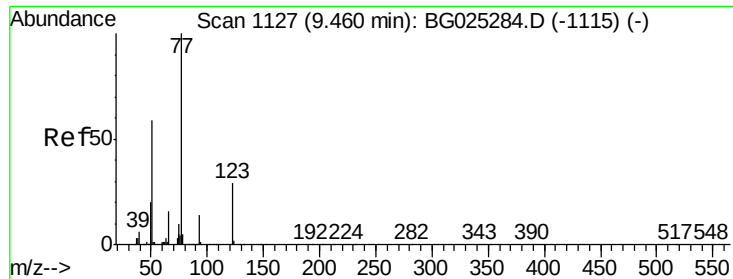
Ion Ratio Lower Upper

117 100

201 0.0 91.9 137.9#

199 0.0 64.3 96.5#

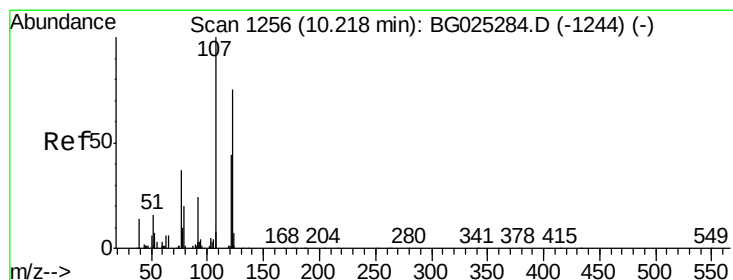
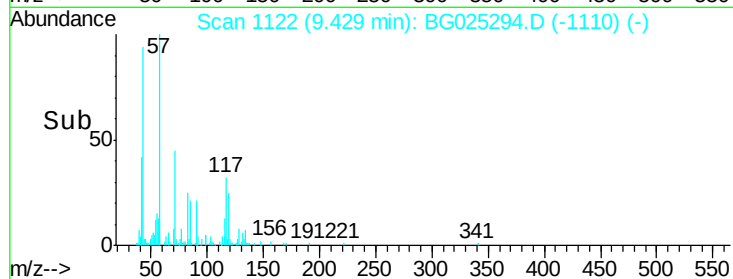
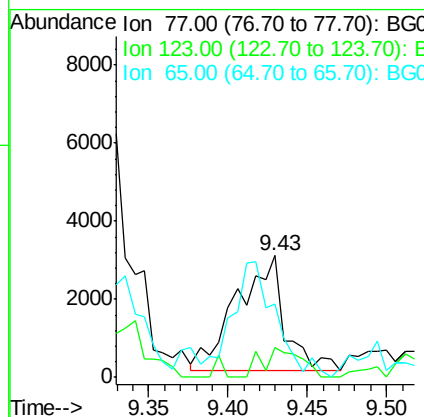
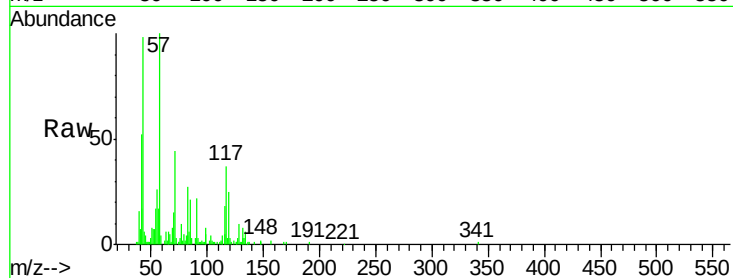




#20  
Nitrobenzene  
Concen: 1.06 ng/ul  
RT: 9.43 min Scan# 1127  
Delta R.T. -0.03 min  
Lab File: BG025294.D  
Acq: 18 Dec 2016 4:01

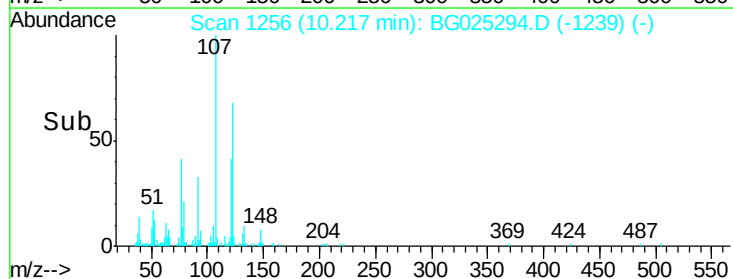
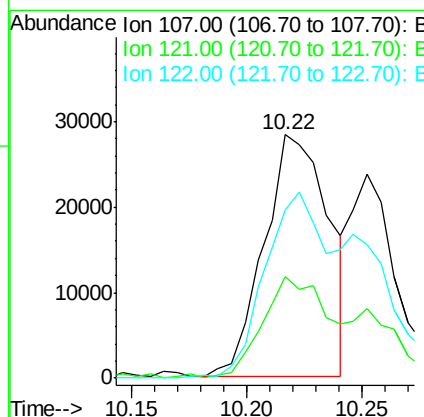
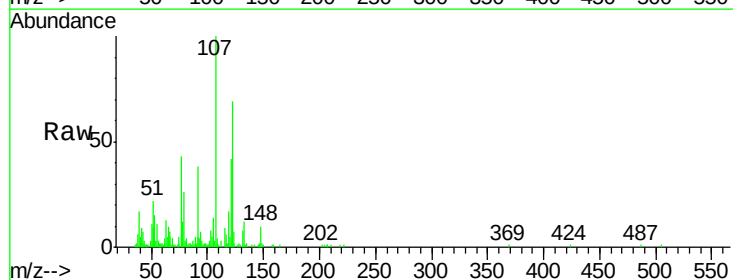
Instrument :  
BNA\_G  
ClientSampleId :

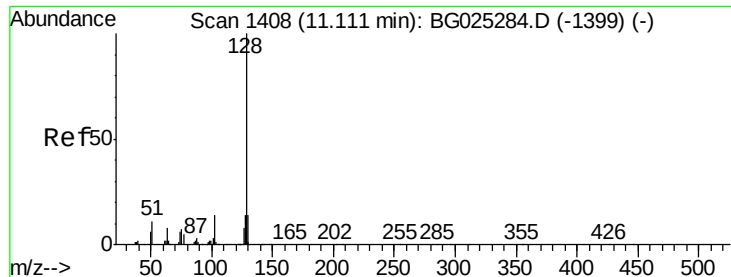
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 77      | 100   |       |       |
| 123     | 24.3  | 27.4  | 41.0# |
| 65      | 60.5  | 13.3  | 19.9# |



#24  
2,4-Dimethylphenol  
Concen: 10.15 ng/ul  
RT: 10.22 min Scan# 1256  
Delta R.T. -0.00 min  
Lab File: BG025294.D  
Acq: 18 Dec 2016 4:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 107     | 100   |       |       |
| 121     | 41.8  | 32.3  | 48.5  |
| 122     | 69.2  | 61.2  | 91.8  |

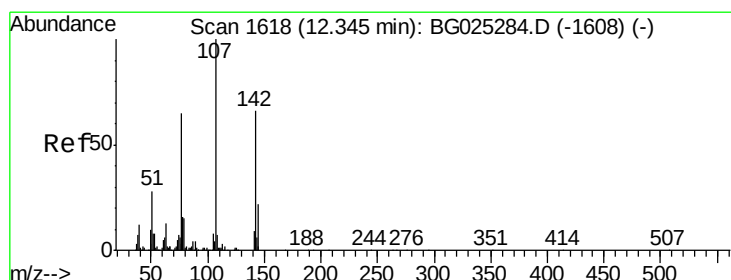
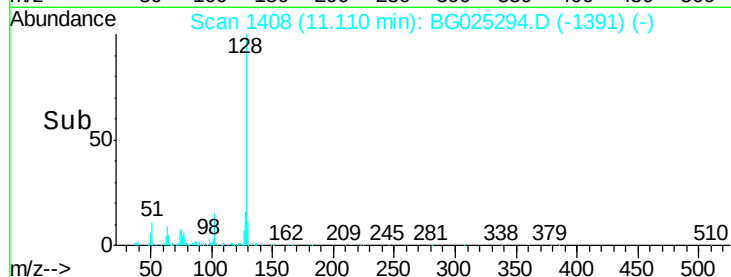
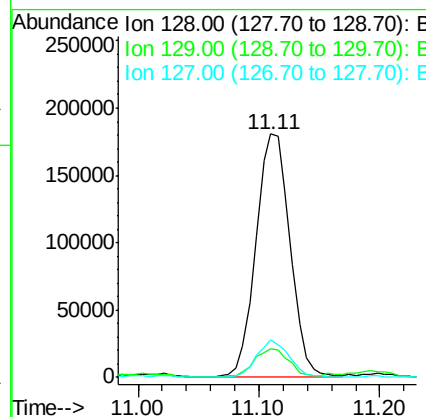
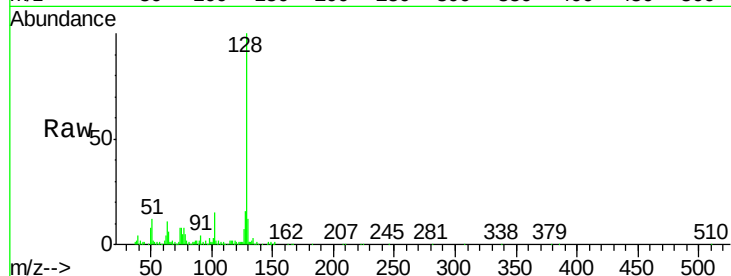




#28  
Naphthalene  
Concen: 28.57 ng/ul  
RT: 11.11 min Scan# 1408  
Delta R.T. -0.00 min  
Lab File: BG025294.D  
Acq: 18 Dec 2016 4:01

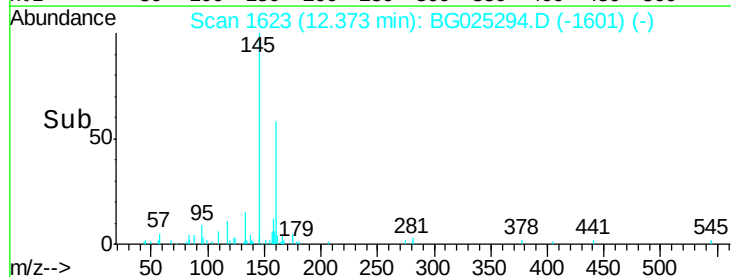
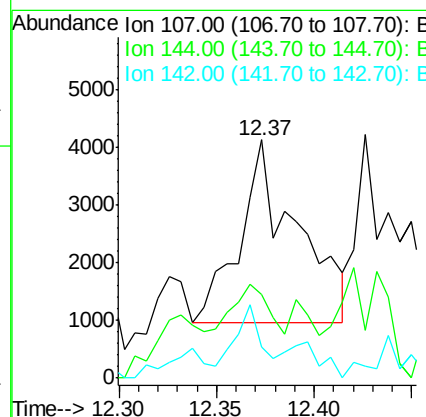
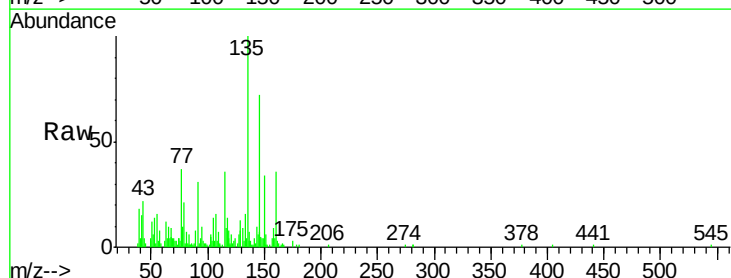
Instrument :  
BNA\_G  
ClientSampleId :

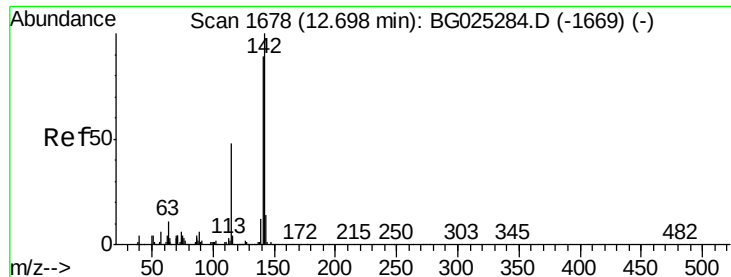
Tot Ion:128 Resp: 351884  
Ion Ratio Lower Upper  
128 100  
129 11.9 9.4 14.2  
127 15.6 10.3 15.5#



#33  
4-Chloro-3-methylphenol  
Concen: 1.20 ng/ul  
RT: 12.37 min Scan# 1623  
Delta R.T. 0.03 min  
Lab File: BG025294.D  
Acq: 18 Dec 2016 4:01

Tgt Ion:107 Resp: 6459  
Ion Ratio Lower Upper  
107 100  
144 35.3 18.2 27.4#  
142 13.1 55.0 82.4#





#34

2-Methylnaphthalene

Concen: 50.11 ng/ul

RT: 12.70 min Scan# 1679

Delta R.T. 0.00 min

Lab File: BG025294.D

Acq: 18 Dec 2016 4:01

Instrument :

BNA\_G

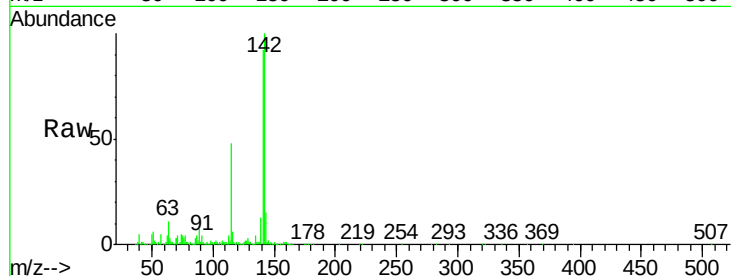
ClientSampleId :

Tot Ion:142 Resp: 487087

Ion Ratio Lower Upper

142 100

141 92.5 68.6 102.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

12.70

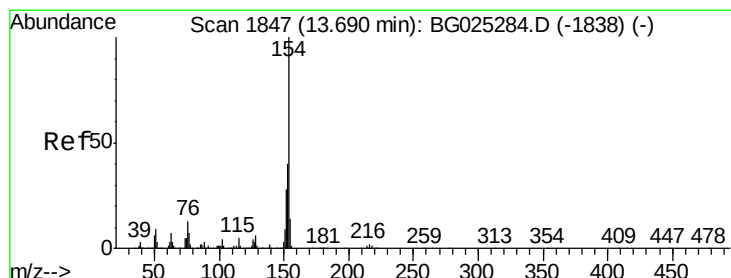
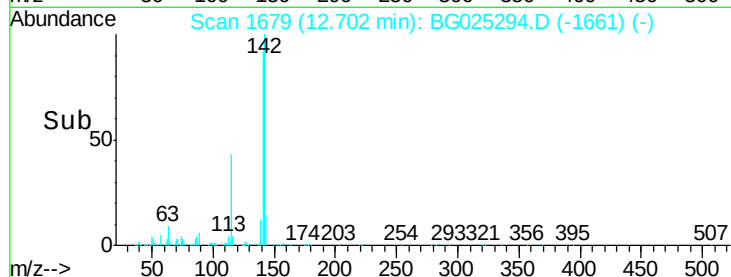
300000

200000

100000

0

Time-->



#40

1,1'-Biphenyl

Concen: 9.42 ng/ul

RT: 13.69 min Scan# 1847

Delta R.T. -0.00 min

Lab File: BG025294.D

Acq: 18 Dec 2016 4:01

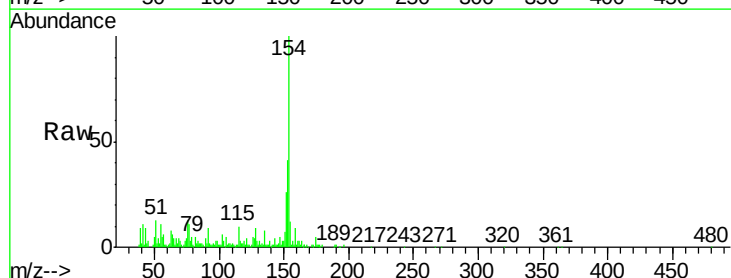
Tgt Ion:154 Resp: 114411

Ion Ratio Lower Upper

154 100

153 41.0 32.2 48.2

76 12.9 9.6 14.4



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): BG

13.69

80000

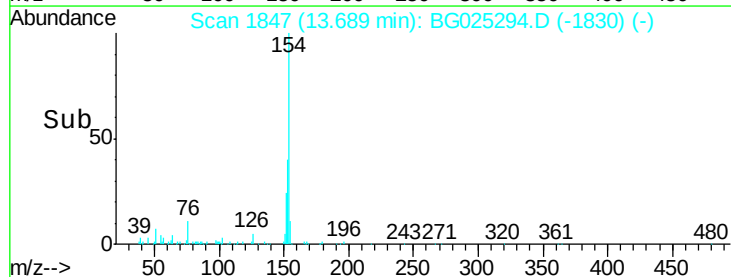
60000

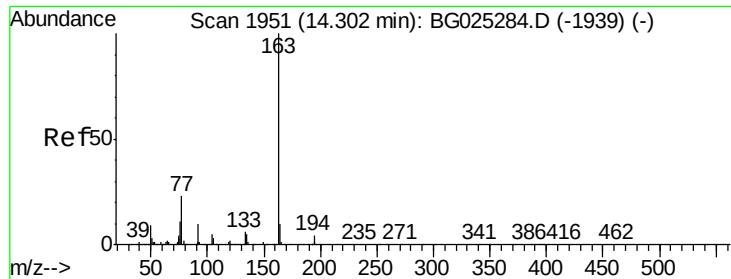
40000

20000

0

Time-->

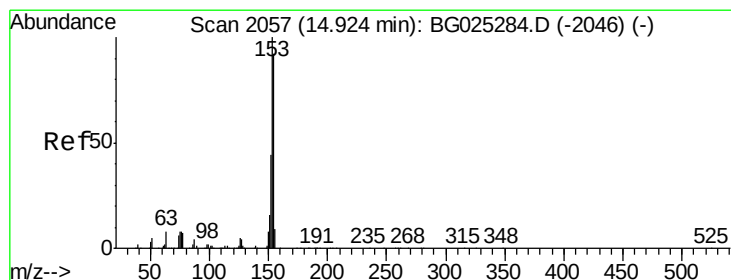
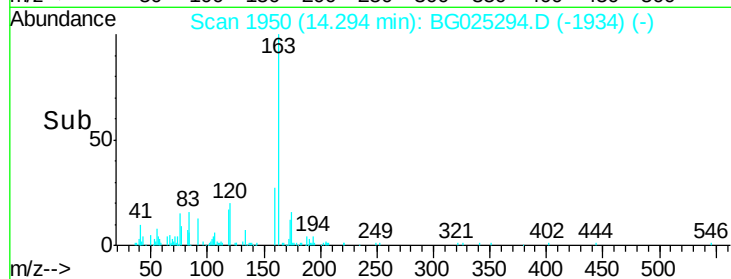
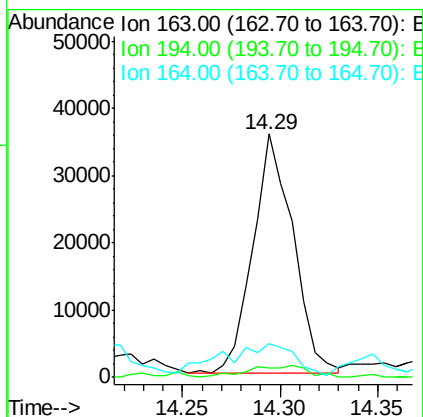
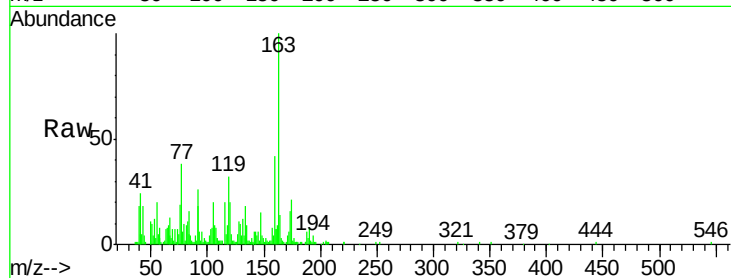




#44  
Dimethylphthalate  
Concen: 3.74 ng/ul  
RT: 14.29 min Scan# 1950  
Delta R.T. -0.01 min  
Lab File: BG025294.D  
Acq: 18 Dec 2016 4:01

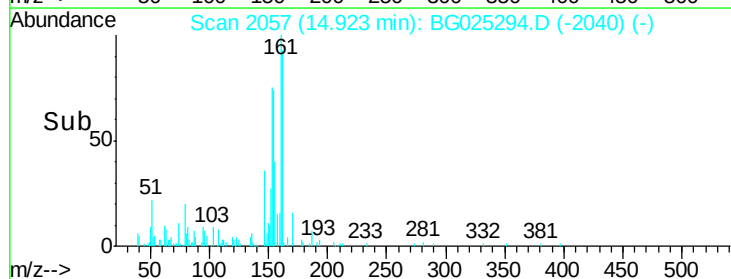
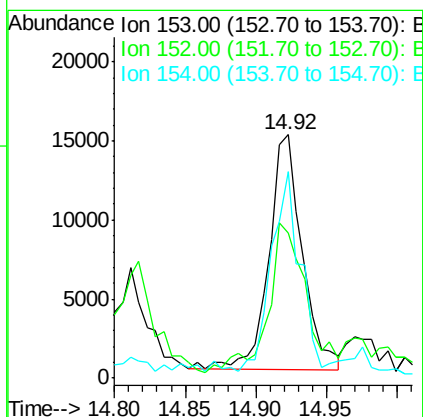
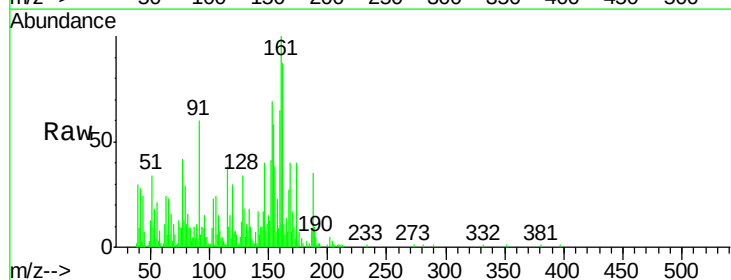
Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.9   | 3.4   | 5.0   |
| 164     | 13.8  | 9.0   | 13.4# |

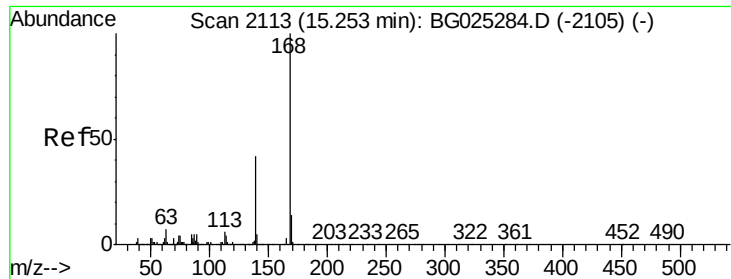


#49  
Acenaphthene  
Concen: 2.46 ng/ul  
RT: 14.92 min Scan# 2057  
Delta R.T. -0.00 min  
Lab File: BG025294.D  
Acq: 18 Dec 2016 4:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 59.7  | 36.5  | 54.7# |
| 154     | 84.6  | 72.3  | 108.5 |







#53

Dibenzofuran

Concen: 4.32 ng/ul

RT: 15.25 min Scan# 2113

Delta R.T. -0.00 min

Lab File: BG025294.D

Acq: 18 Dec 2016 4:01

Instrument :

BNA\_G

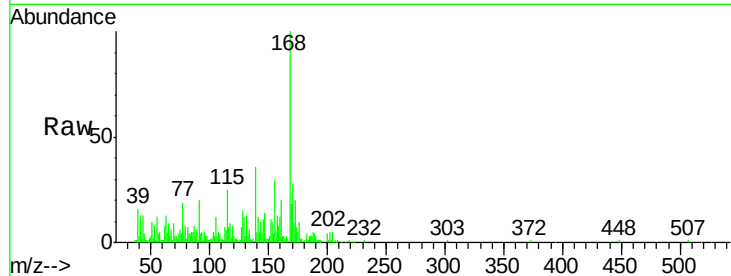
ClientSampled :

Tot Ion:168 Resp: 68659

Ion Ratio Lower Upper

168 100

139 35.7 33.8 50.8



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

15.25

40000

30000

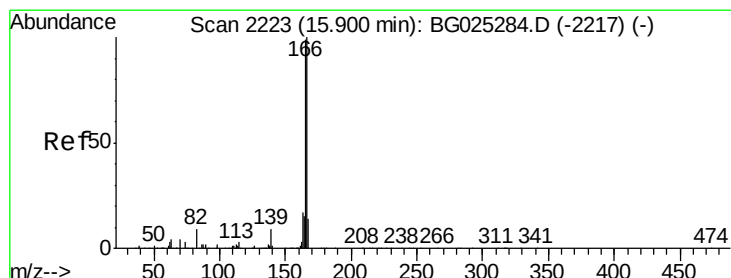
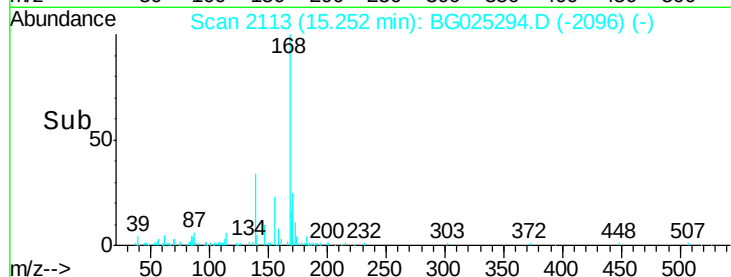
20000

10000

0

15.20 15.25 15.30

Time-->



#58

Fluorene

Concen: 6.00 ng/ul

RT: 15.90 min Scan# 2223

Delta R.T. -0.00 min

Lab File: BG025294.D

Acq: 18 Dec 2016 4:01

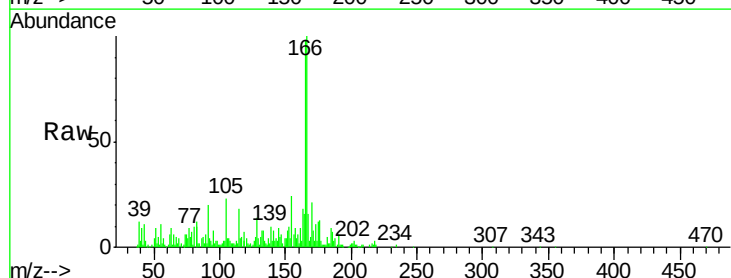
Tgt Ion:166 Resp: 77675

Ion Ratio Lower Upper

166 100

165 98.0 79.7 119.5

167 16.2 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

15.90

60000

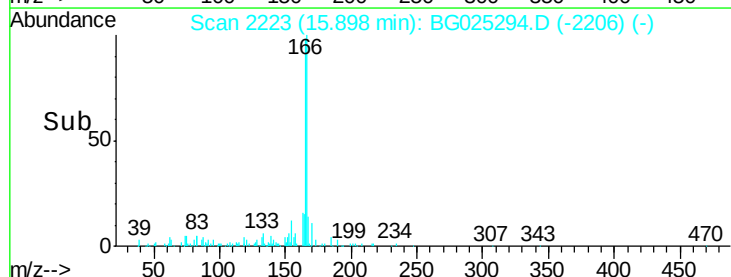
40000

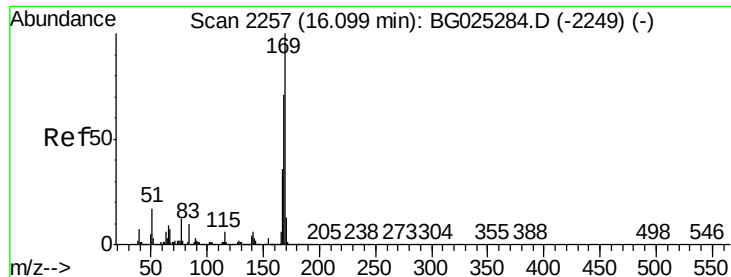
20000

0

15.85 15.90 15.95

Time-->





#64

N-Nitrosodiphenylamine

Concen: 1.35 ng/ul

RT: 16.10 min Scan# 2257

Delta R.T. -0.00 min

Lab File: BG025294.D

Acq: 18 Dec 2016 4:01

Instrument :

BNA\_G

ClientSampleId :

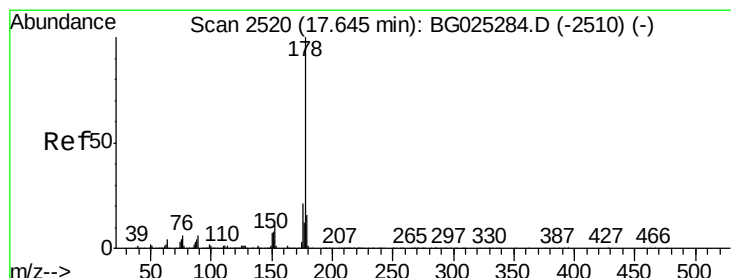
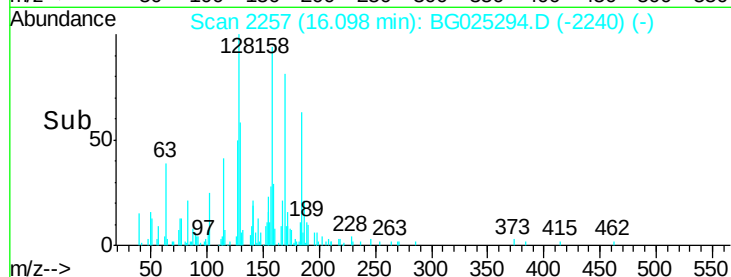
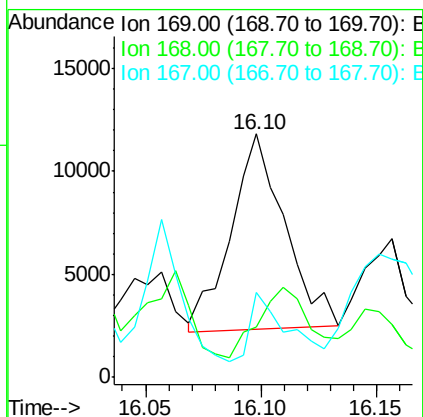
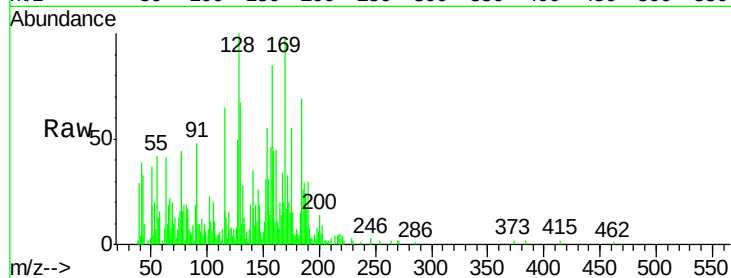
Tot Ion:169 Resp: 15314

Ion Ratio Lower Upper

169 100

168 20.7 59.1 88.7#

167 34.8 29.7 44.5



#69

Phenanthrene

Concen: 2.10 ng/ul

RT: 17.64 min Scan# 2520

Delta R.T. -0.00 min

Lab File: BG025294.D

Acq: 18 Dec 2016 4:01

Tgt Ion:178 Resp: 44307

Ion Ratio Lower Upper

178 100

179 19.8 12.4 18.6#

176 24.5 16.5 24.7

