

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121716\  
 Data File : BG025283.D  
 Acq On : 17 Dec 2016 20:48  
 Operator : UM/SJ  
 Sample : H6040-11  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DA8W4

Manual Integrations  
 APPROVED

umangi  
 12/20/2016 10:54:26 AM

Quant Time: Dec 18 03:58:55 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sun Dec 18 00:18:21 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.23  | 152  | 73626    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.06 | 136  | 287794   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.86 | 164  | 223994   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.60 | 188  | 459284   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.90 | 240  | 597948   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.34 | 264  | 614476   | 20.00 | ng/ul | 0.01     |

## System Monitoring Compounds

|                                |       |     |        |       |       |       |
|--------------------------------|-------|-----|--------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.57  | 96  | 11014  | 7.73  | ng/uL | -0.02 |
| 5) Phenol-d5                   | 7.40  | 99  | 92068  | 14.49 | ng/ul | 0.00  |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.55  | 67  | 57397  | 14.61 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 7.77  | 132 | 63782  | 14.36 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.95  | 113 | 76695  | 14.45 | ng/ul | 0.00  |
| 19) Nitrobenzene-d5            | 9.42  | 128 | 33832  | 16.60 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 10.14 | 143 | 38250  | 15.06 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 10.69 | 165 | 76170  | 15.59 | ng/ul | 0.00  |
| 29) 4-Chloroaniline-d4         | 11.21 | 131 | 117792 | 24.53 | ng/ul | 0.00  |
| 43) Dimethylphthalate-d6       | 14.25 | 166 | 254420 | 16.51 | ng/ul | 0.00  |
| 46) Acenaphthylene-d8          | 14.56 | 160 | 296983 | 17.60 | ng/ul | 0.00  |
| 51) 4-Nitrophenol-d4           | 15.11 | 143 | 54130  | 20.44 | ng/ul | 0.02  |
| 57) Fluorene-d10               | 15.85 | 176 | 295629 | 20.38 | ng/ul | 0.00  |
| 62) 4,6-Dinitro-2-methylphenol | 15.99 | 200 | 63157  | 22.24 | ng/ul | 0.01  |
| 70) Anthracene-d10             | 17.70 | 188 | 360213 | 18.58 | ng/ul | 0.00  |
| 76) Pyrene-d10                 | 19.98 | 212 | 435790 | 17.69 | ng/ul | 0.00  |
| 87) Benzo(a)pyrene-d12         | 25.09 | 264 | 451744 | 18.14 | ng/ul | 0.01  |

## Target Compounds

|                         |       |     |         |        |        | Ovalue |
|-------------------------|-------|-----|---------|--------|--------|--------|
| 6) Phenol               | 7.42  | 94  | 38003   | 5.83   | ng/ul# | 87     |
| 11) 2-Methylphenol      | 8.68  | 108 | 141415  | 29.46  | ng/ul  | 91     |
| 14) Acetophenone        | 9.07  | 105 | 27860   | 3.45   | ng/ul  | 86     |
| 16) 4-Methylphenol      | 9.02  | 108 | 383199  | 71.76  | ng/ul  | 93     |
| 24) 2,4-Dimethylphenol  | 10.22 | 107 | 832370m | 141.23 | ng/ul  |        |
| 28) Naphthalene         | 11.12 | 128 | 501752  | 37.51  | ng/ul  | 98     |
| 34) 2-Methylnaphthalene | 12.70 | 142 | 555591  | 52.63  | ng/ul  | 98     |
| 40) 1,1'-Biophenyl      | 13.69 | 154 | 127574  | 9.39   | ng/ul  | 97     |
| 44) Dimethylphthalate   | 14.31 | 163 | 72761   | 4.81   | ng/ul# | 96     |
| 49) Acenaphthene        | 14.92 | 153 | 43917   | 3.91   | ng/ul# | 76     |
| 53) Dibenzofuran        | 15.25 | 168 | 139299  | 7.84   | ng/ul  | 99     |
| 58) Fluorene            | 15.91 | 166 | 195177  | 13.49  | ng/ul# | 96     |
| 69) Phenanthrene        | 17.65 | 178 | 204284  | 9.32   | ng/ul# | 88     |
| 71) Anthracene          | 17.74 | 178 | 59691   | 2.65   | ng/ul# | 82     |

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

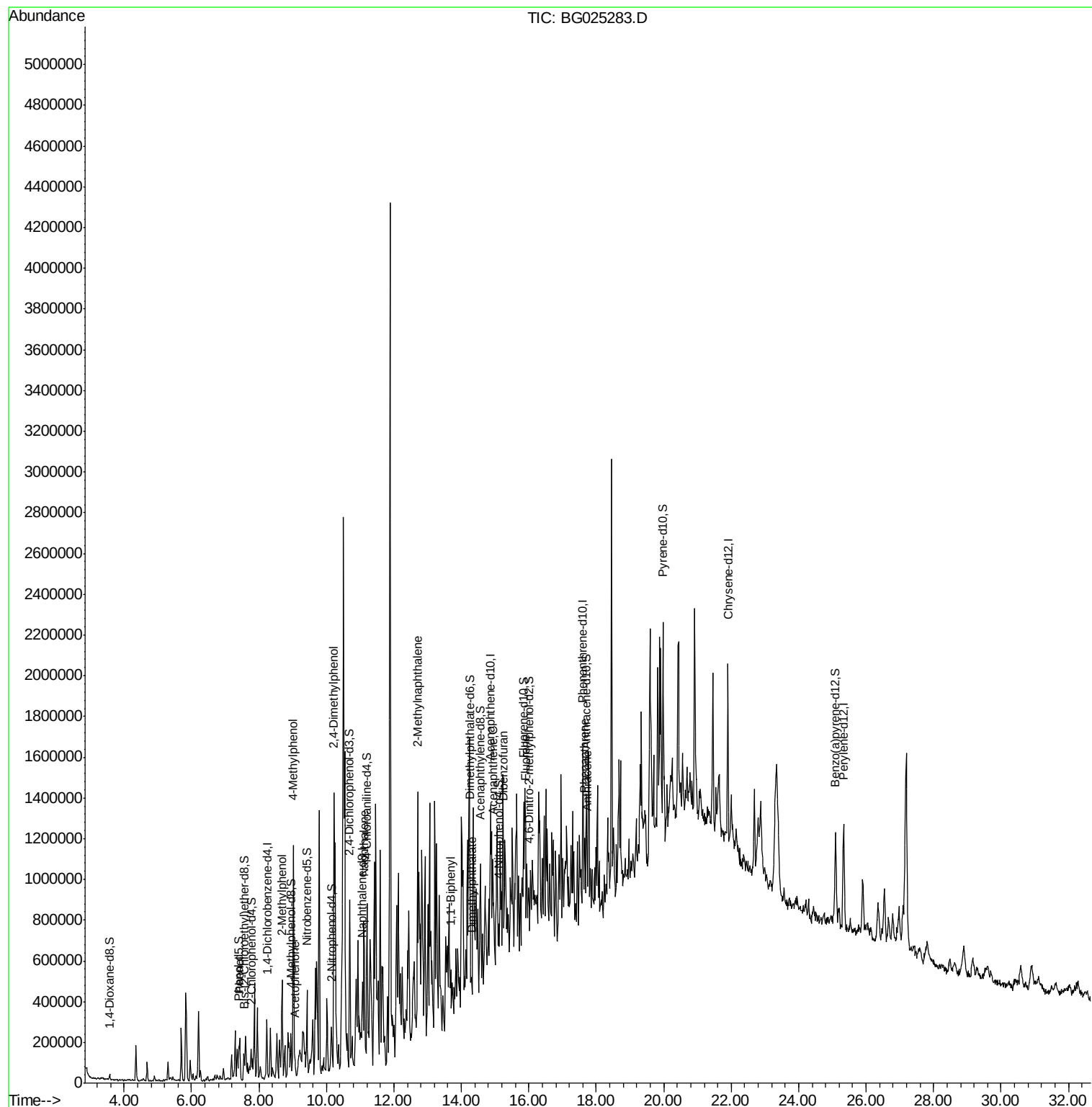
Data Path : Z:\HPCHEM1\BNA G\DATA\BG121716\  
Data File : BG025283.D  
Acq On : 17 Dec 2016 20:48  
Operator : UM/SJ  
Sample : H6040-11  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

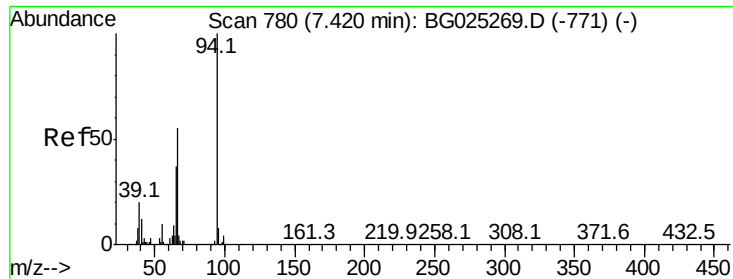
Instrument :  
BNA\_G  
ClientSampleId :  
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Quant Time: Dec 18 03:58:55 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sun Dec 18 00:18:21 2016  
Response via : Initial Calibration





#6

Phenol

Concen: 5.83 ng/ul

RT: 7.42 min Scan# 780

Delta R.T. 0.00 min

Lab File: BG025283.D

Acq: 17 Dec 2016 20:48

Instrument :

BNA\_G

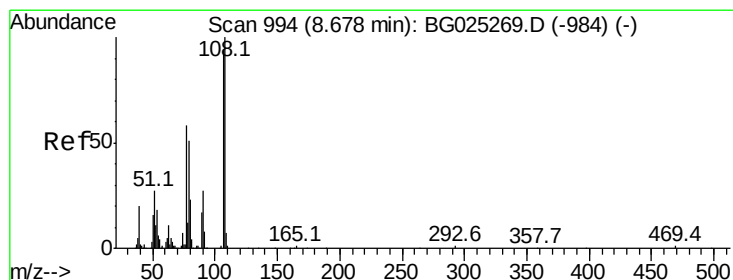
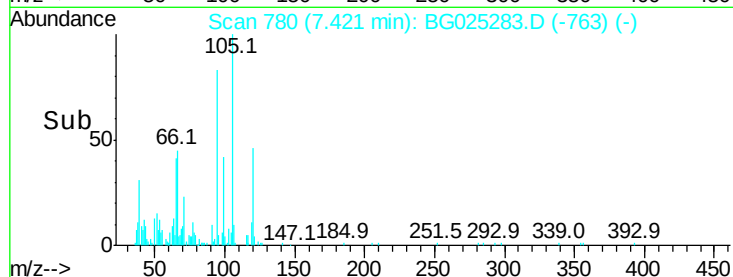
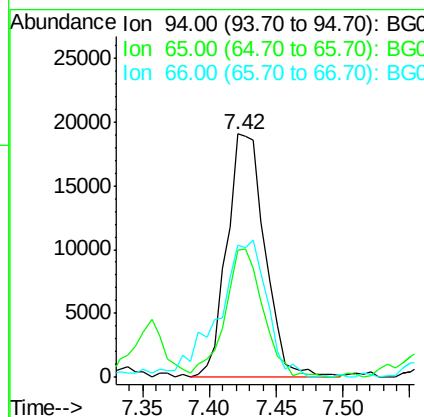
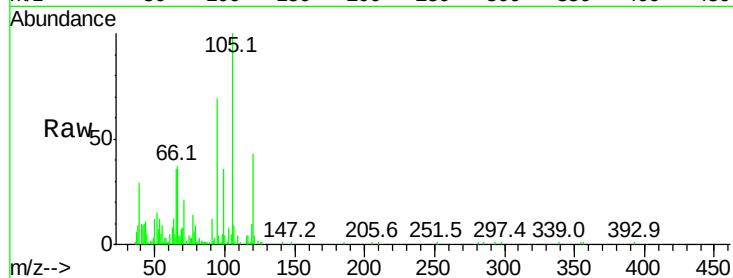
ClientSampleId :

DA8W4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 94      | 100   |       |       |
| 65      | 52.2  | 26.8  | 40.2# |
| 66      | 54.2  | 44.4  | 66.6  |

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#11

2-Methylphenol

Concen: 29.46 ng/ul

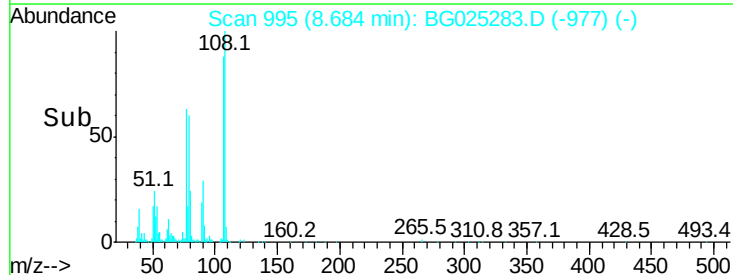
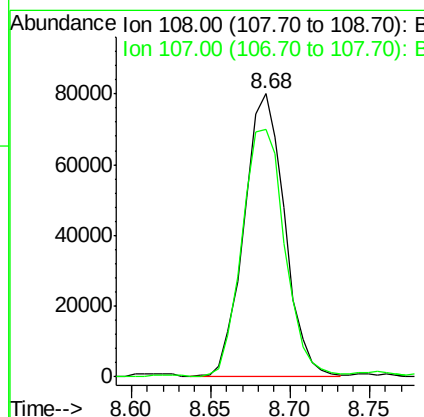
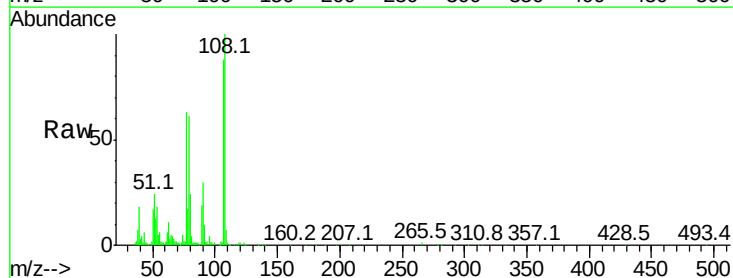
RT: 8.68 min Scan# 995

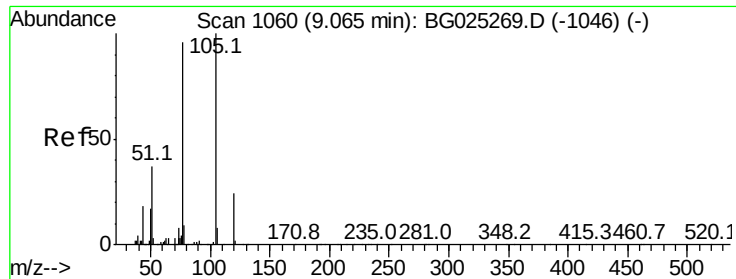
Delta R.T. 0.01 min

Lab File: BG025283.D

Acq: 17 Dec 2016 20:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 108     | 100   |       |       |
| 107     | 87.6  | 76.7  | 115.1 |





#14

Acetophenone

Concen: 3.45 ng/ul

RT: 9.07 min Scan# 1060

Delta R.T. 0.00 min

Lab File: BG025283.D

Acq: 17 Dec 2016 20:48

Instrument :

BNA\_G

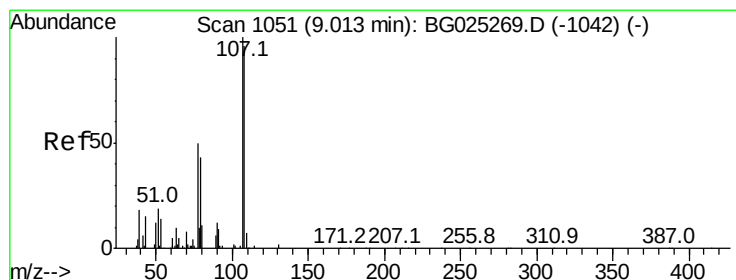
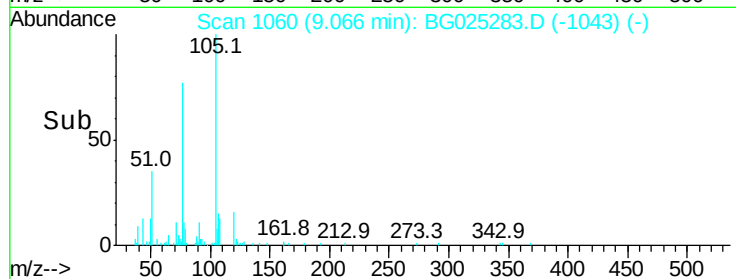
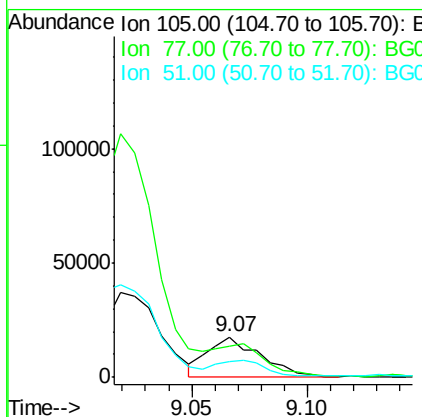
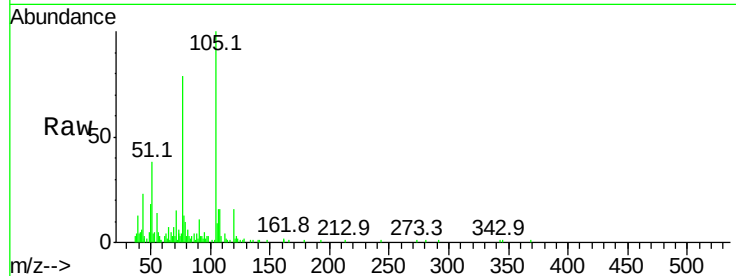
ClientSampleId :

DA8W4

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 105   | Resp: | 27860 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 77        | 78.7  | 76.0  | 114.0 |
| 51        | 38.0  | 34.8  | 52.2  |

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#16

4-Methylphenol

Concen: 71.76 ng/ul

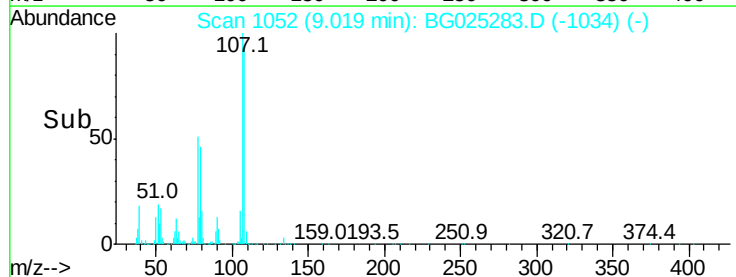
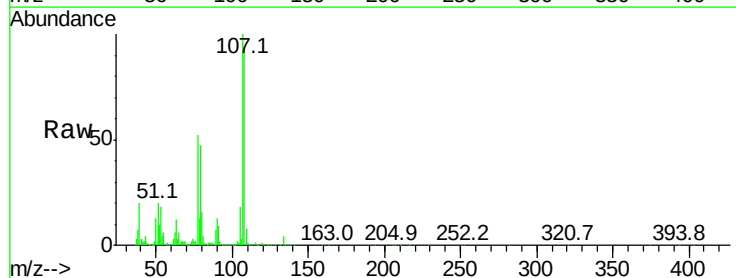
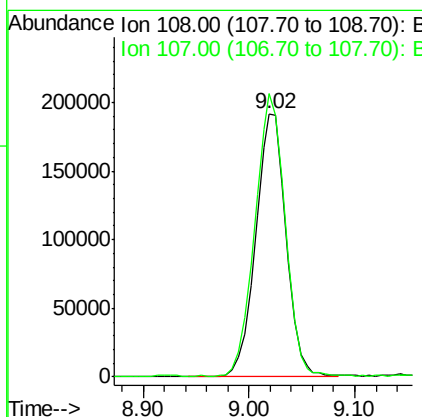
RT: 9.02 min Scan# 1052

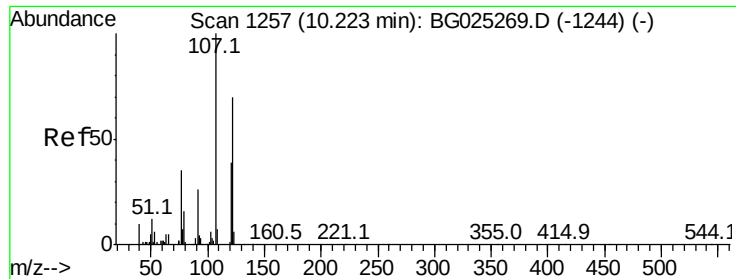
Delta R.T. 0.01 min

Lab File: BG025283.D

Acq: 17 Dec 2016 20:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 108   | Resp: | 383199 |
| Ion Ratio | Lower | Upper |        |
| 108       | 100   |       |        |
| 107       | 107.5 | 91.7  | 137.5  |





#24

2,4-Dimethylphenol

Concen: 141.23 ng/ul m

RT: 10.22 min Scan# 1257

Delta R.T. 0.00 min

Lab File: BG025283.D

Acq: 17 Dec 2016 20:48

Instrument :

BNA\_G

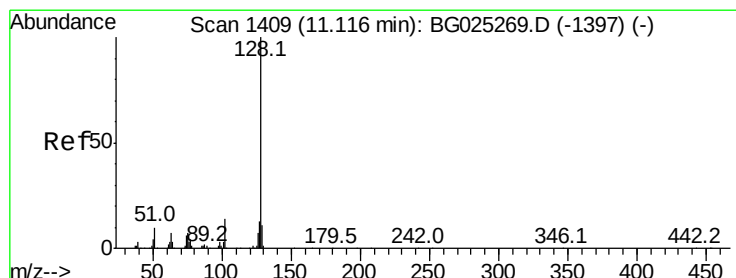
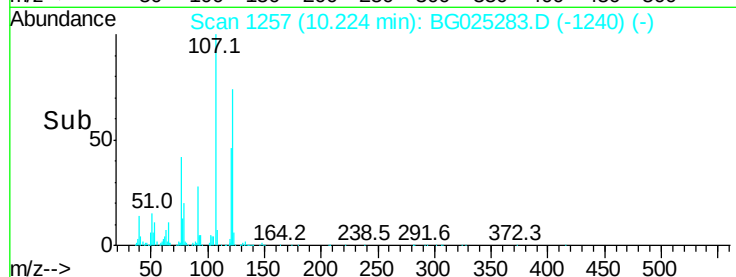
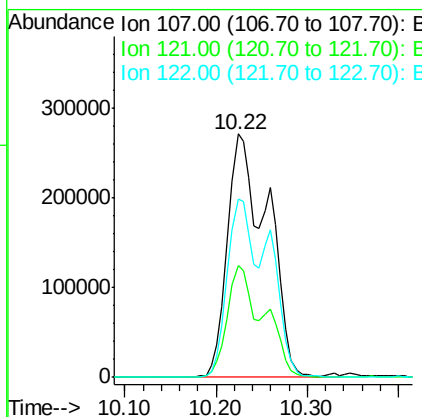
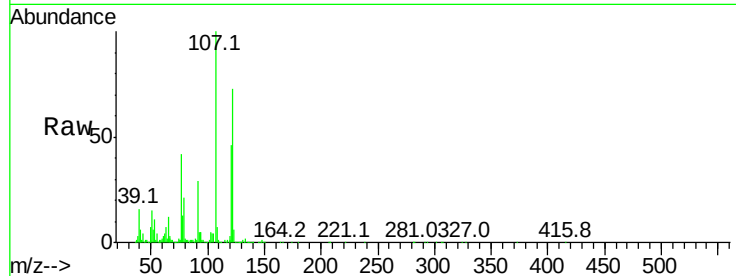
ClientSampleId :

DA8W4

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 107   | Resp: | 832370 |
| Ion Ratio | Lower | Upper |        |
| 107       | 100   |       |        |
| 121       | 45.8  | 32.3  | 48.5   |
| 122       | 73.2  | 61.2  | 91.8   |

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#28

Naphthalene

Concen: 37.51 ng/ul

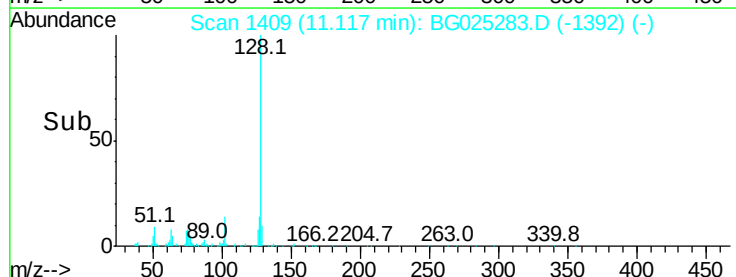
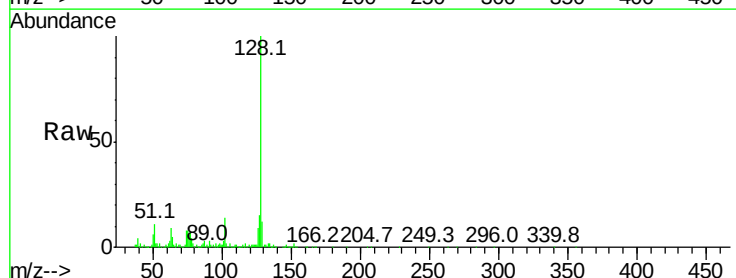
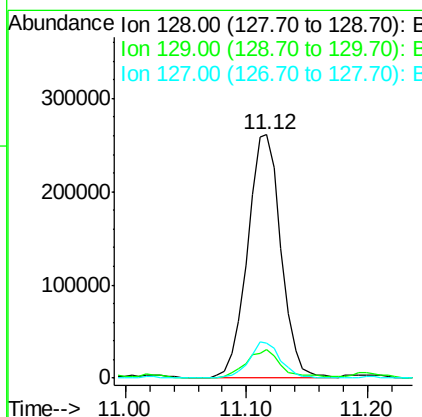
RT: 11.12 min Scan# 1409

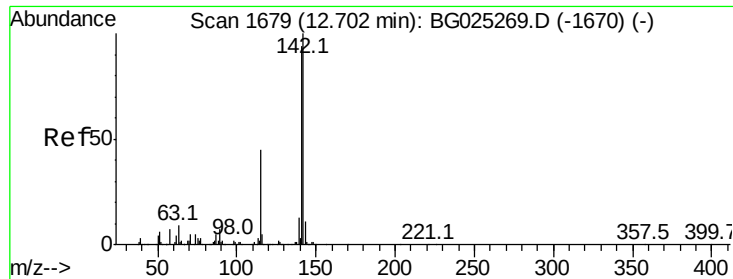
Delta R.T. 0.00 min

Lab File: BG025283.D

Acq: 17 Dec 2016 20:48

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 128   | Resp: | 501752 |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 129       | 11.9  | 9.4   | 14.2   |
| 127       | 14.6  | 10.3  | 15.5   |





#34

2-Methylnaphthalene

Concen: 52.63 ng/ul

RT: 12.70 min Scan# 1679

Delta R.T. 0.00 min

Lab File: BG025283.D

Acq: 17 Dec 2016 20:48

Instrument :

BNA\_G

ClientSampleId :

DA8W4

Tot Ion:142 Resp: 555591

Ion Ratio Lower Upper

142 100

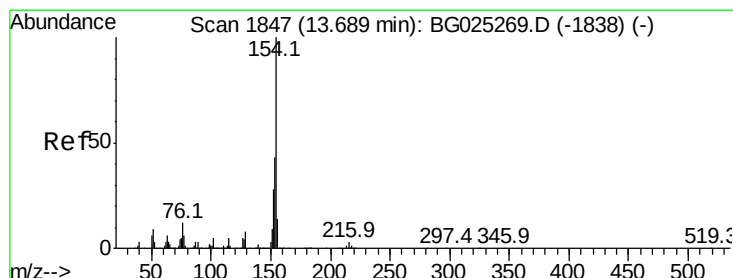
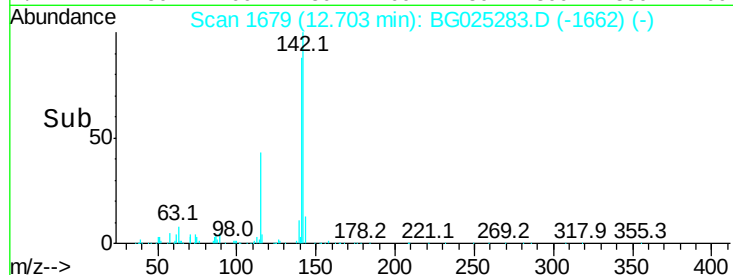
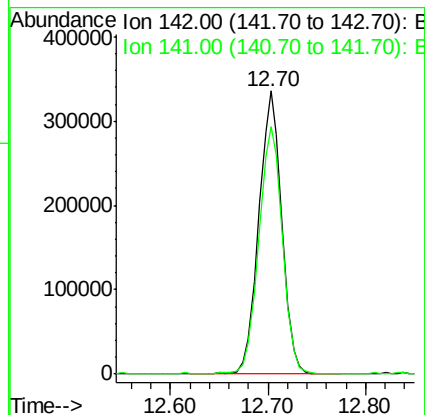
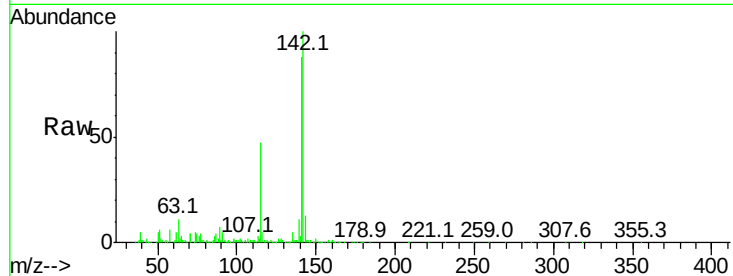
141 87.6 68.6 102.8

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#40

1,1'-Biphenyl

Concen: 9.39 ng/ul

RT: 13.69 min Scan# 1847

Delta R.T. 0.00 min

Lab File: BG025283.D

Acq: 17 Dec 2016 20:48

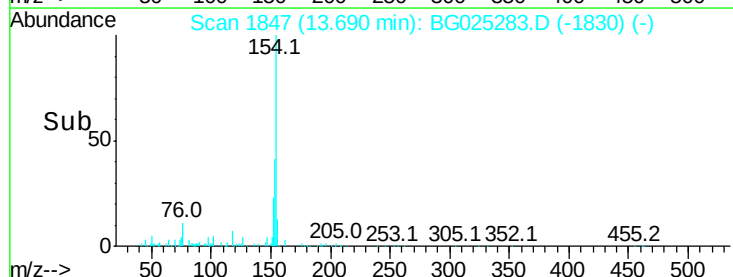
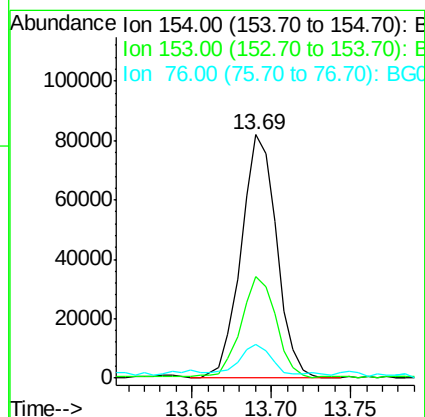
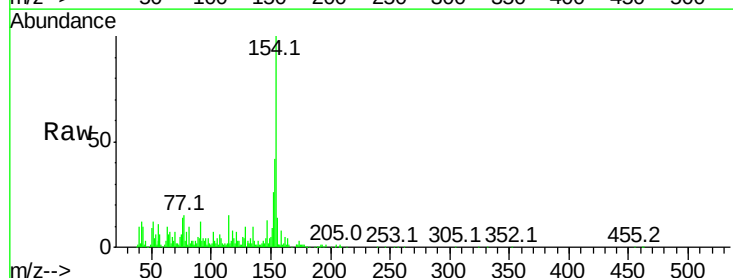
Tgt Ion:154 Resp: 127574

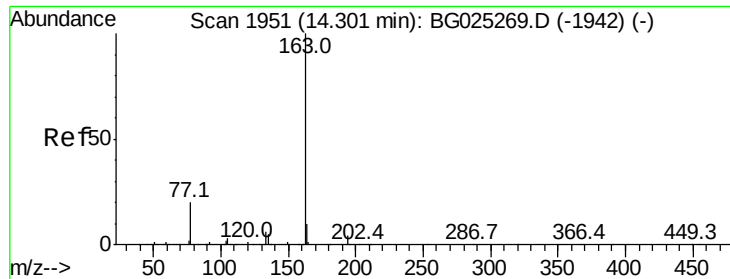
Ion Ratio Lower Upper

154 100

153 41.8 32.2 48.2

76 13.8 9.6 14.4





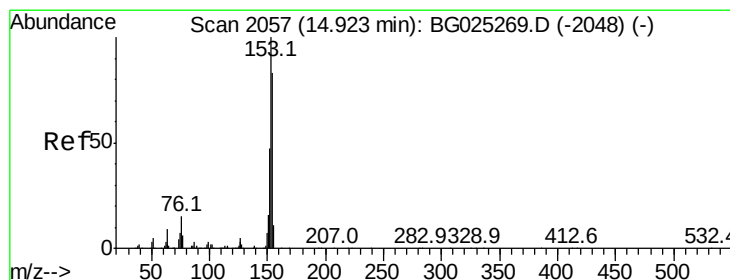
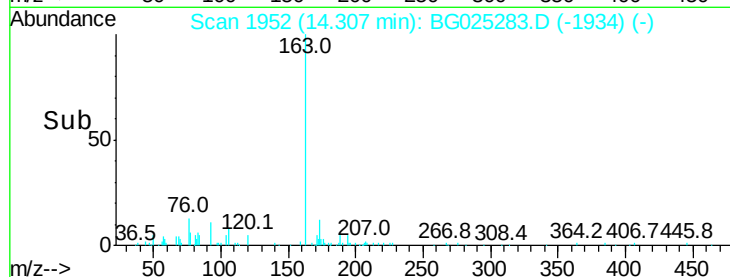
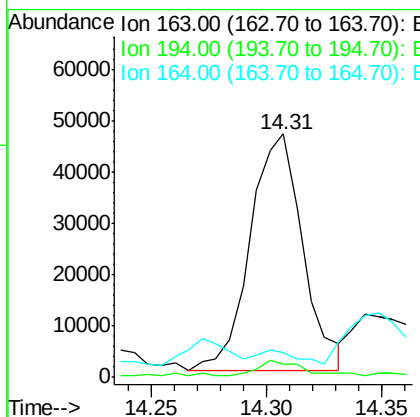
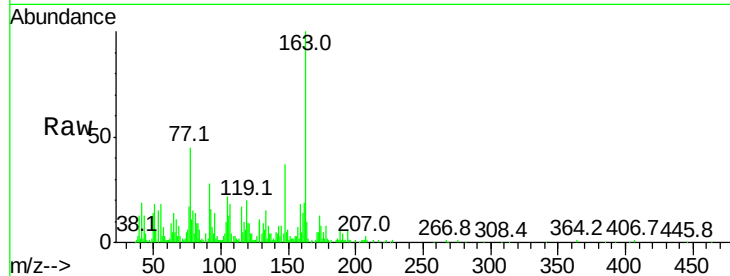
#44  
Dimethylphthalate  
Concen: 4.81 ng/ul  
RT: 14.31 min Scan# 1952  
Delta R.T. 0.01 min  
Lab File: BG025283.D  
Acq: 17 Dec 2016 20:48

Instrument :  
BNA\_G  
ClientSampleId :  
DA8W4

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 5.6   | 3.4   | 5.0#  |
| 164     | 10.0  | 9.0   | 13.4  |

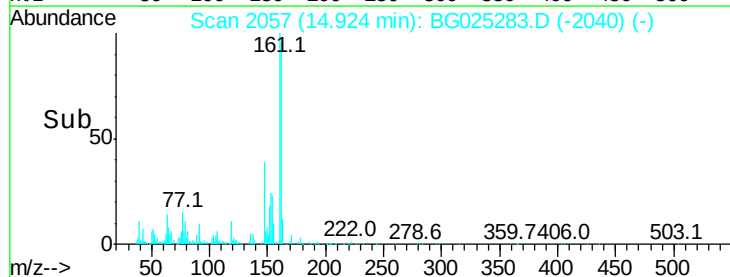
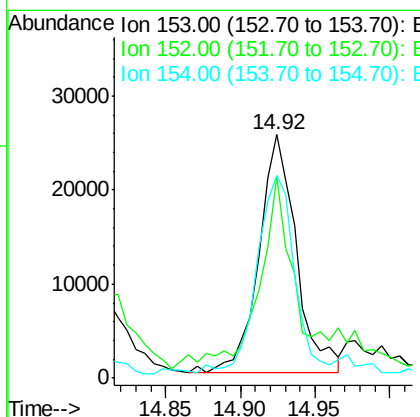
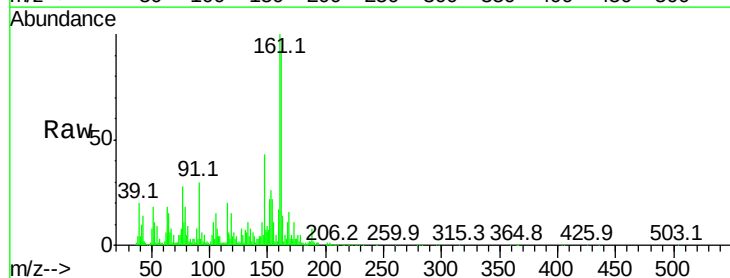
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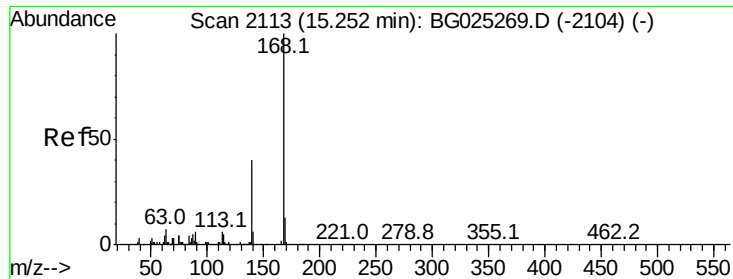
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#49  
Acenaphthene  
Concen: 3.91 ng/ul  
RT: 14.92 min Scan# 2057  
Delta R.T. 0.00 min  
Lab File: BG025283.D  
Acq: 17 Dec 2016 20:48

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 82.8  | 36.5  | 54.7# |
| 154     | 83.2  | 72.3  | 108.5 |





#53

Dibenzofuran

Concen: 7.84 ng/ul

RT: 15.25 min Scan# 2113

Delta R.T. 0.00 min

Lab File: BG025283.D

Acq: 17 Dec 2016 20:48

Instrument :

BNA\_G

ClientSampleId :

DA8W4

Tot Ion:168 Resp: 139299

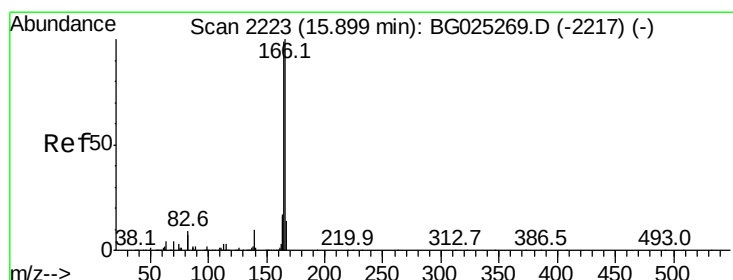
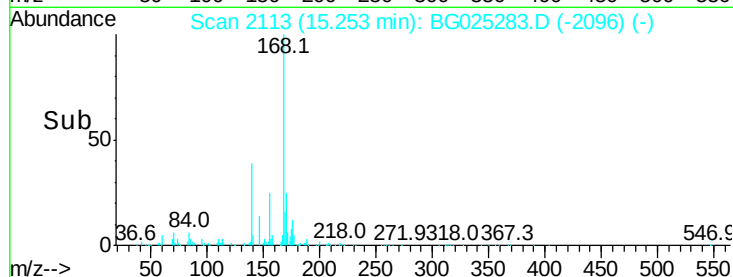
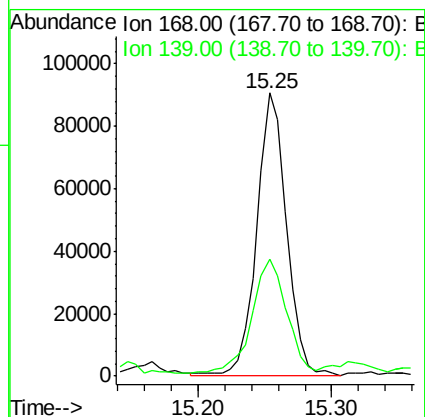
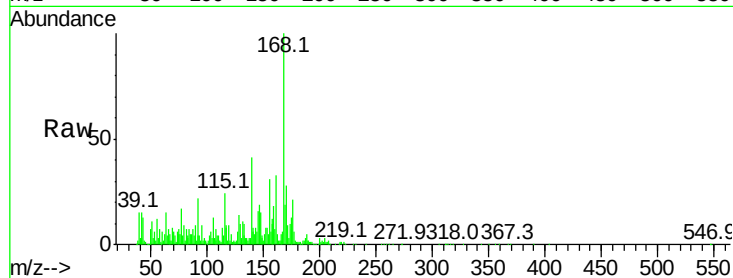
Ion Ratio Lower Upper

168 100

139 41.4 33.8 50.8

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#58

Fluorene

Concen: 13.49 ng/ul

RT: 15.91 min Scan# 2224

Delta R.T. 0.01 min

Lab File: BG025283.D

Acq: 17 Dec 2016 20:48

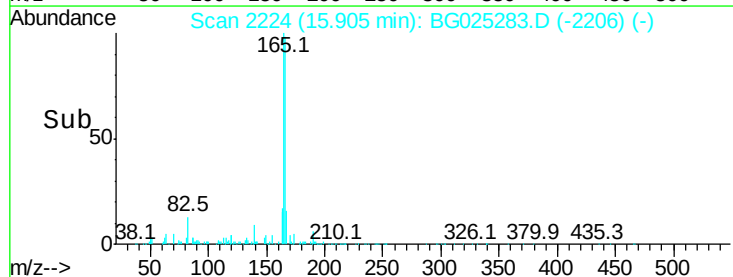
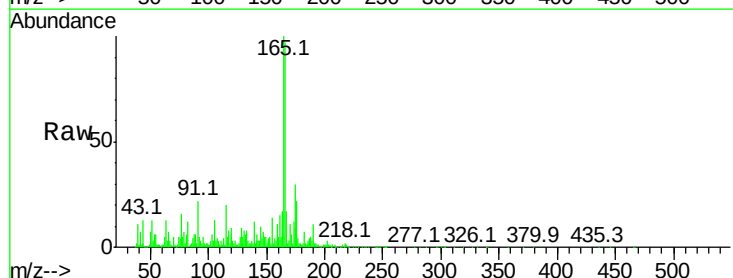
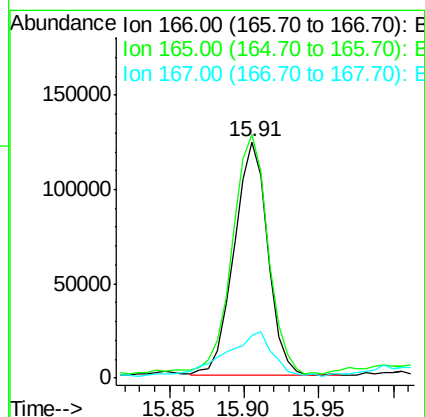
Tgt Ion:166 Resp: 195177

Ion Ratio Lower Upper

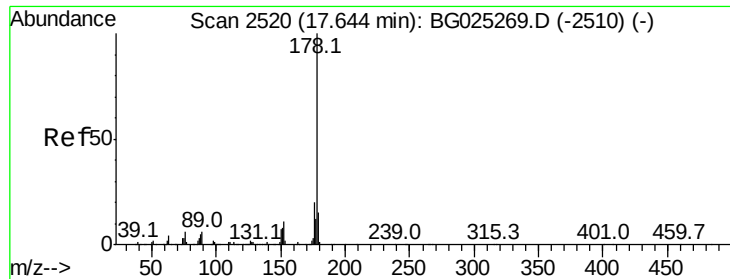
166 100

165 103.1 79.7 119.5

167 17.8 11.4 17.2#







#69

Phenanthrene

Concen: 9.32 ng/ul

RT: 17.65 min Scan# 2521

Delta R.T. 0.01 min

Lab File: BG025283.D

Acq: 17 Dec 2016 20:48

Instrument :

BNA\_G

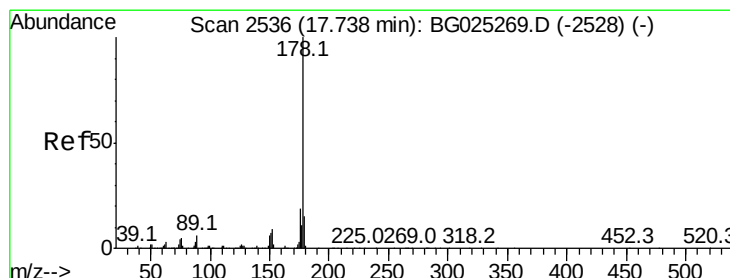
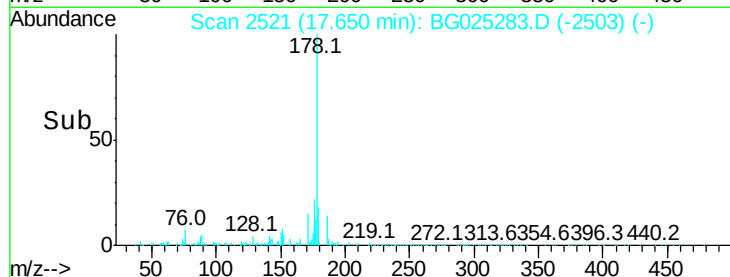
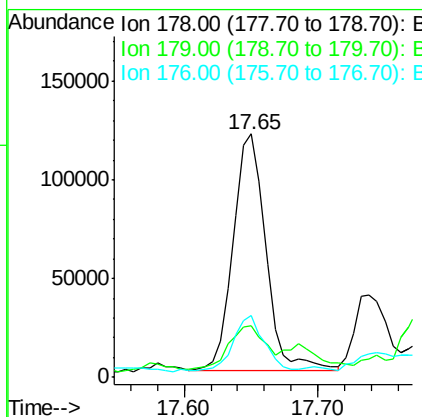
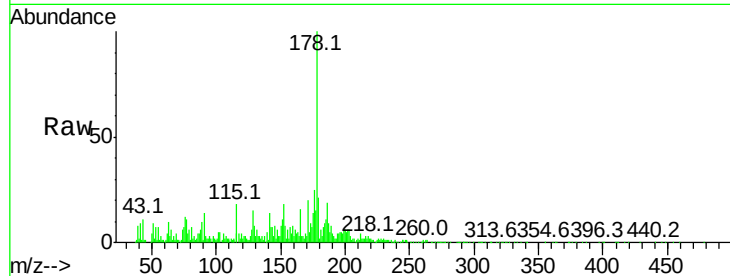
ClientSampleId :

DA8W4

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 204284 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 21.0  | 12.4  | 18.6#  |
| 176       | 25.5  | 16.5  | 24.7#  |

Manual Integrations  
APPROVED

umangi  
12/20/2016 10:54:26 AM



#71

Anthracene

Concen: 2.65 ng/ul

RT: 17.74 min Scan# 2536

Delta R.T. 0.00 min

Lab File: BG025283.D

Acq: 17 Dec 2016 20:48

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 59691 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 23.1  | 12.6  | 19.0# |
| 176       | 28.4  | 15.9  | 23.9# |

