

Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
 Data File : BG020621.D  
 Acq On : 30 Dec 2015 23:05  
 Operator : UM/SJ  
 Sample : G4846-03DL 100X  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N49DL

Manual Integrations  
 APPROVED

Sohil  
 12/31/2015 6:35:57 PM

Quant Time: Dec 31 03:31:32 2015  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 31 01:03:28 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.06  | 152  | 12708    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.87 | 136  | 59129    | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.70 | 164  | 47102    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.44 | 188  | 128781   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.71 | 240  | 157858   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 24.97 | 264  | 150890   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |      |       |      |
|--------------------------------|-------|-----|-------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 0.00  | 96  | 0     | 0.00 | ng/uL |      |
| 5) Phenol-d5                   | 0.00  | 99  | 0     | 0.00 | ng/ul |      |
| 7) Bis-(2-Chloroethyl)ether-d  | 0.00  | 67  | 0     | 0.00 | ng/ul |      |
| 9) 2-Chlorophenol-d4           | 0.00  | 132 | 0     | 0.00 | ng/ul |      |
| 13) 4-Methylphenol-d8          | 0.00  | 113 | 0     | 0.00 | ng/ul |      |
| 19) Nitrobenzene-d5            | 0.00  | 128 | 0     | 0.00 | ng/ul |      |
| 22) 2-Nitrophenol-d4           | 0.00  | 143 | 0     | 0.00 | ng/ul |      |
| 26) 2,4-Dichlorophenol-d3      | 0.00  | 165 | 0     | 0.00 | ng/ul |      |
| 29) 4-Chloroaniline-d4         | 0.00  | 131 | 0     | 0.00 | ng/ul |      |
| 44) Dimethylphthalate-d6       | 14.10 | 166 | 1614  | 0.42 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.39 | 160 | 2146  | 0.49 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 0.00  | 143 | 0     | 0.00 | ng/ul |      |
| 58) Fluorene-d10               | 15.69 | 176 | 2008  | 0.57 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 0.00  | 200 | 0     | 0.00 | ng/ul |      |
| 71) Anthracene-d10             | 17.54 | 188 | 3537m | 0.59 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.82 | 212 | 3574  | 0.50 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.74 | 264 | 3646  | 0.48 | ng/ul | 0.00 |

## Target Compounds

|                         |       |     |        |       |       | Ovalue |
|-------------------------|-------|-----|--------|-------|-------|--------|
| 28) Naphthalene         | 10.92 | 128 | 157196 | 50.20 | ng/ul | 99     |
| 34) 2-Methylnaphthalene | 12.53 | 142 | 14873  | 6.35  | ng/ul | 99     |
| 41) 1,1'-Biphenyl       | 13.53 | 154 | 4101   | 1.16  | ng/ul | 98     |
| 50) Acenaphthene        | 14.76 | 153 | 22326  | 7.07  | ng/ul | 96     |
| 54) Dibenzofuran        | 15.09 | 168 | 18148  | 3.81  | ng/ul | 98     |
| 59) Fluorene            | 15.74 | 166 | 14759  | 3.85  | ng/ul | 96     |
| 70) Phenanthrene        | 17.48 | 178 | 35325  | 5.05  | ng/ul | 97     |
| 75) Carbazole           | 17.85 | 167 | 23643  | 3.91  | ng/ul | 99     |

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

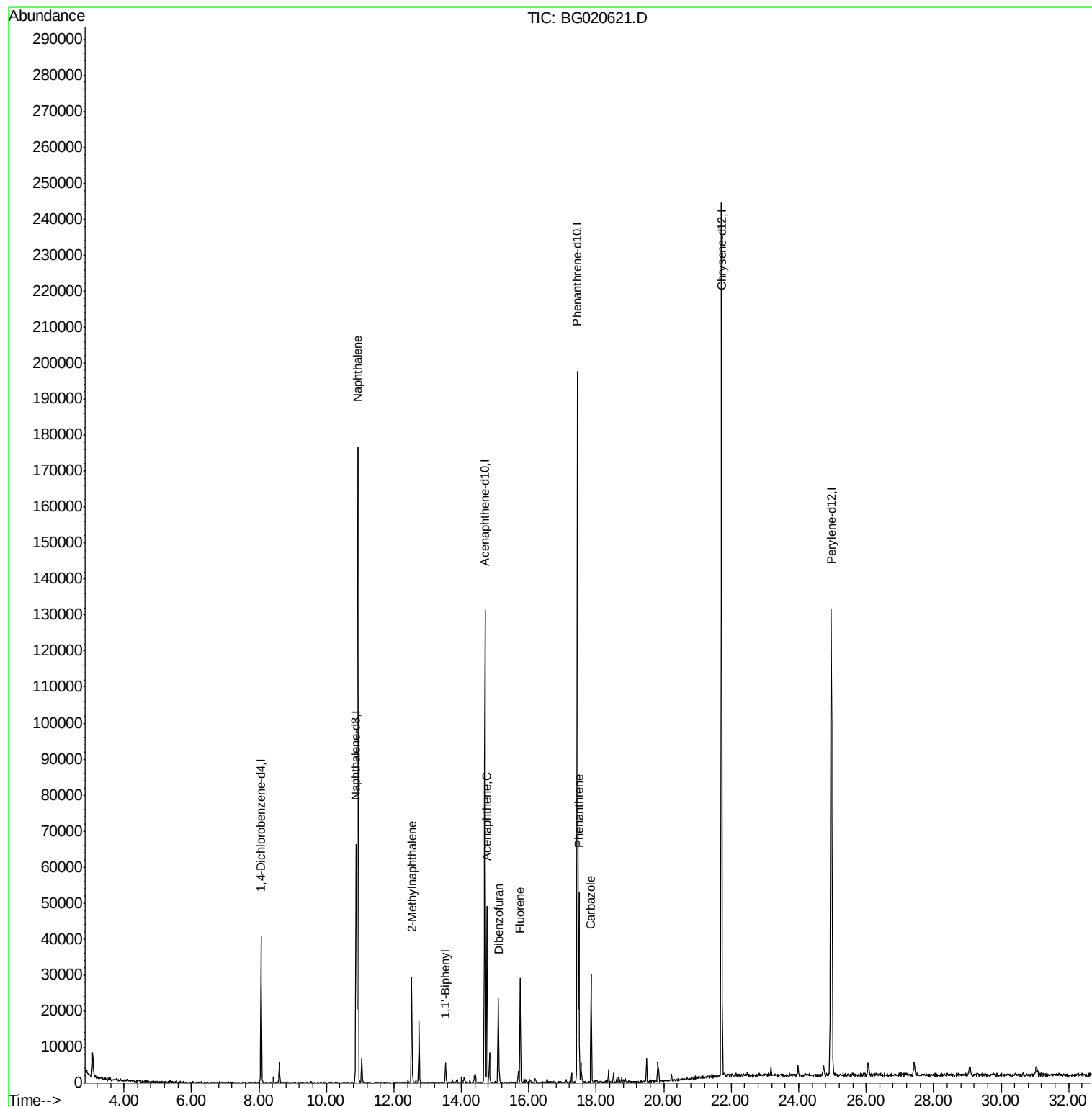
Data Path : Z:\HPCHEM1\BNA G\DATA\BG123015\  
Data File : BG020621.D  
Acq On : 30 Dec 2015 23:05  
Operator : UM/SJ  
Sample : G4846-03DL 100X  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

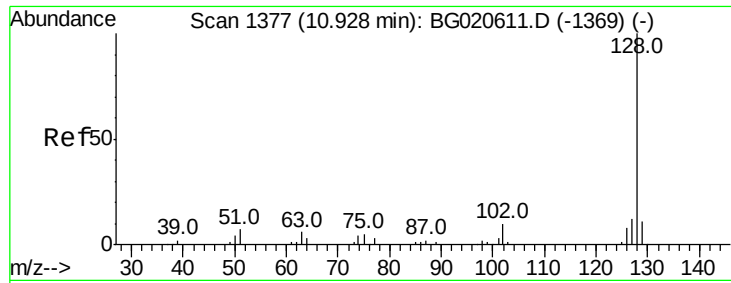
Instrument :  
BNA\_G  
ClientSampleId :  
D9N49DL

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Quant Time: Dec 31 03:31:32 2015  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG123015.M  
Quant Title : SVOA CALIBRATION  
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Response via : Initial Calibration





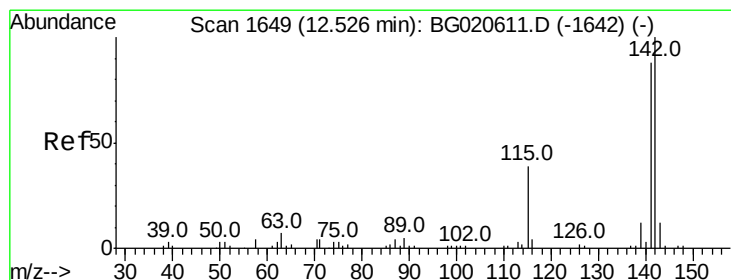
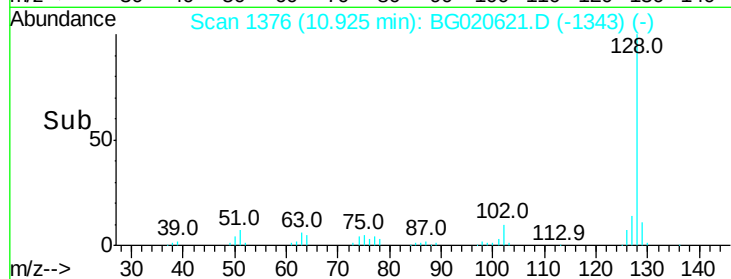
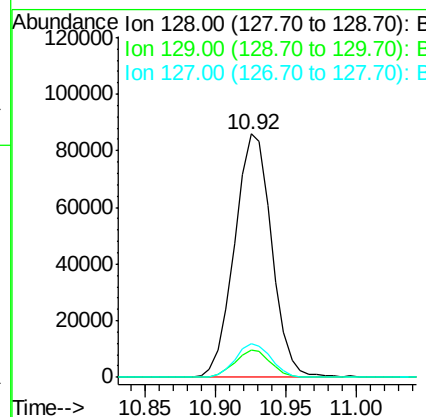
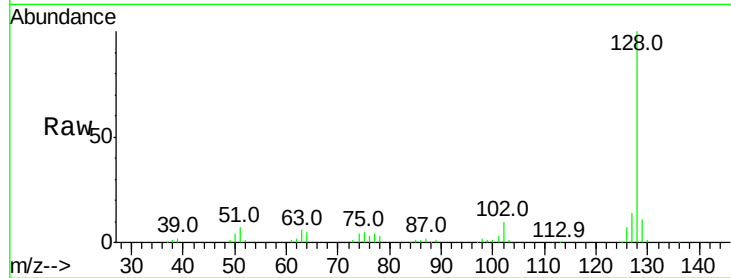
#28  
Naphthalene  
Concen: 50.20 ng/ul  
RT: 10.92 min Scan# 1376  
Delta R.T. -0.00 min  
Lab File: BG020621.D  
Acq: 30 Dec 2015 23:05

Instrument :  
BNA\_G  
ClientSampleId :  
D9N49DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 128     | 100   | 157196 |       |       |
| 129     | 11.0  |        | 8.3   | 12.5  |
| 127     | 13.8  |        | 10.8  | 16.2  |

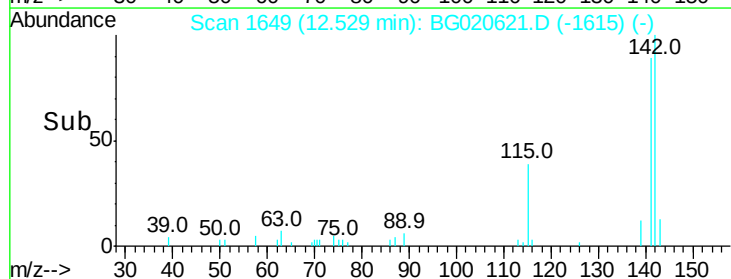
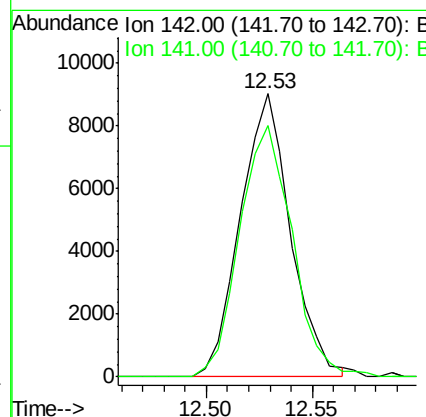
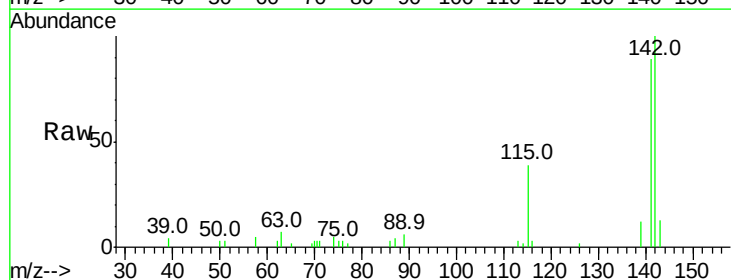
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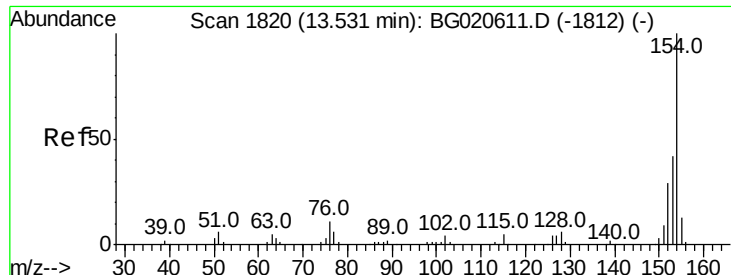
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#34  
2-Methylnaphthalene  
Concen: 6.35 ng/ul  
RT: 12.53 min Scan# 1649  
Delta R.T. 0.00 min  
Lab File: BG020621.D  
Acq: 30 Dec 2015 23:05

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 142     | 100   | 14873 |       |       |
| 141     | 88.6  |       | 71.4  | 107.2 |





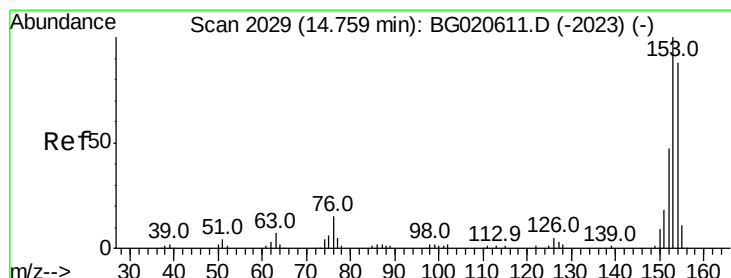
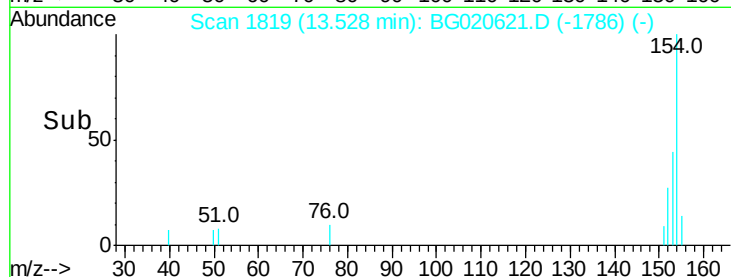
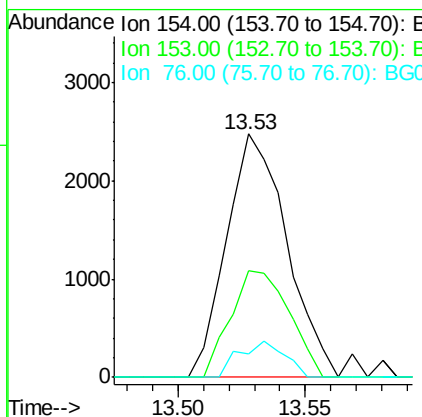
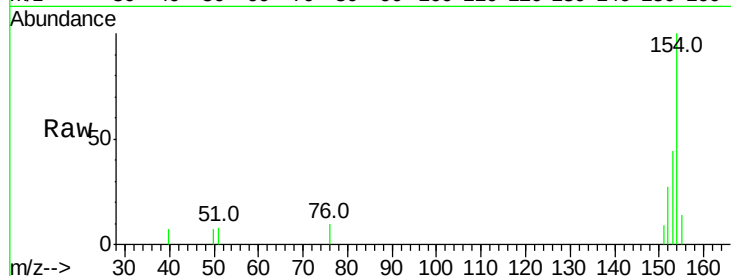
#41  
 1,1'-Biphenyl  
 Concen: 1.16 ng/ul  
 RT: 13.53 min Scan# 1819  
 Delta R.T. -0.00 min  
 Lab File: BG020621.D  
 Acq: 30 Dec 2015 23:05

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N49DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 154     | 100   |       |       |
| 153     | 43.7  | 34.0  | 51.0  |
| 76      | 9.6   | 8.4   | 12.6  |

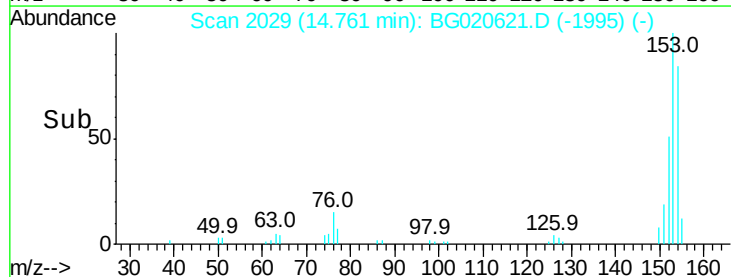
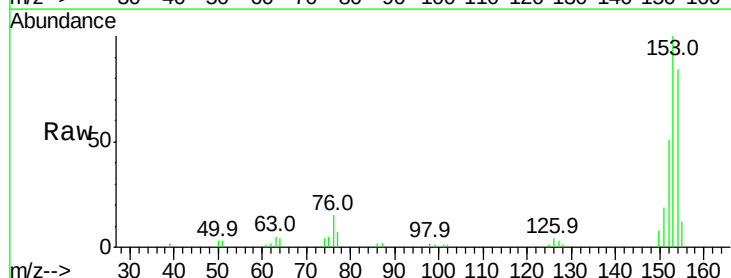
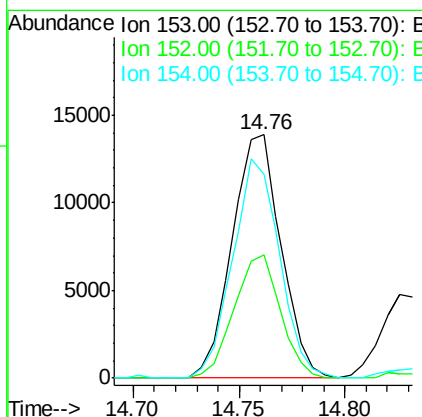
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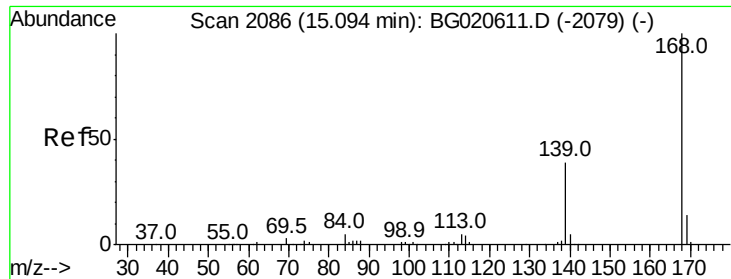
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#50  
 Acenaphthene  
 Concen: 7.07 ng/ul  
 RT: 14.76 min Scan# 2029  
 Delta R.T. 0.00 min  
 Lab File: BG020621.D  
 Acq: 30 Dec 2015 23:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 153     | 100   |       |       |
| 152     | 50.8  | 37.9  | 56.9  |
| 154     | 83.7  | 69.8  | 104.6 |





#54

Dibenzenofuran

Concen: 3.81 ng/ul

RT: 15.09 min Scan# 2085

Delta R.T. -0.00 min

Lab File: BG020621.D

Acq: 30 Dec 2015 23:05

Instrument :

BNA\_G

ClientSampleId :

D9N49DL

Tot Ion:168 Resp: 18148

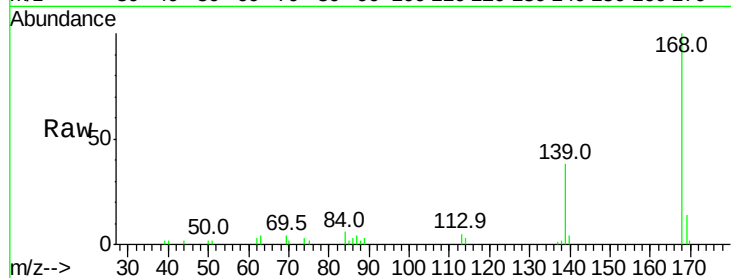
Ion Ratio Lower Upper

168 100

139 37.6 31.0 46.4

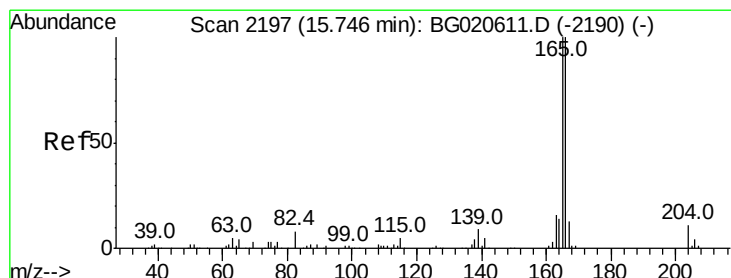
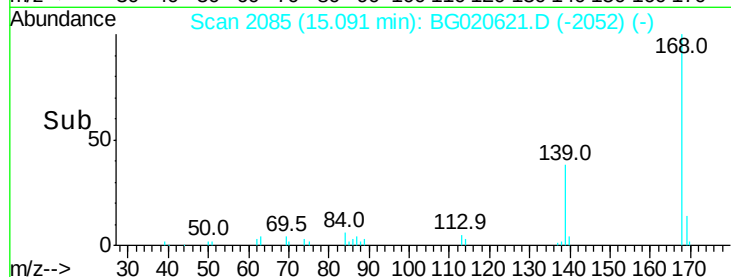
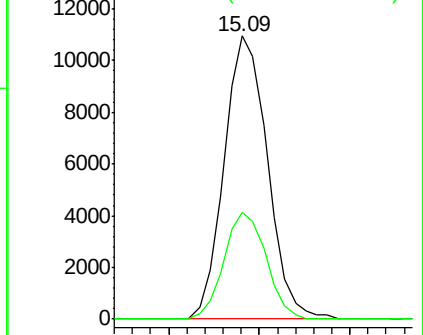
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Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E



#59

Fluorene

Concen: 3.85 ng/ul

RT: 15.74 min Scan# 2196

Delta R.T. -0.00 min

Lab File: BG020621.D

Acq: 30 Dec 2015 23:05

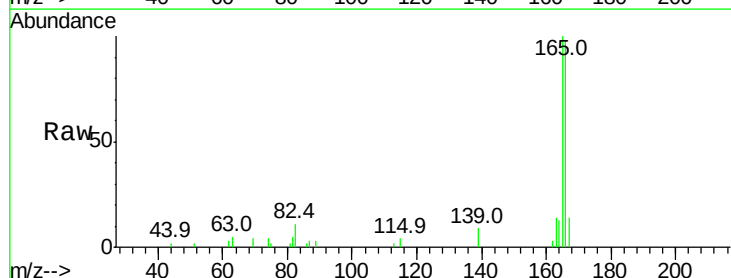
Tgt Ion:166 Resp: 14759

Ion Ratio Lower Upper

166 100

165 102.3 78.4 117.6

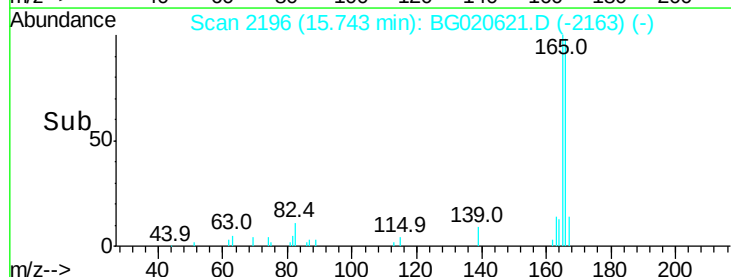
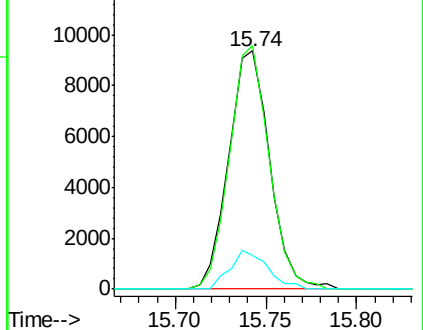
167 14.4 11.1 16.7

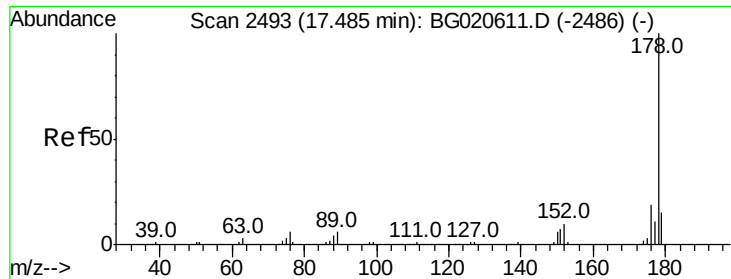


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





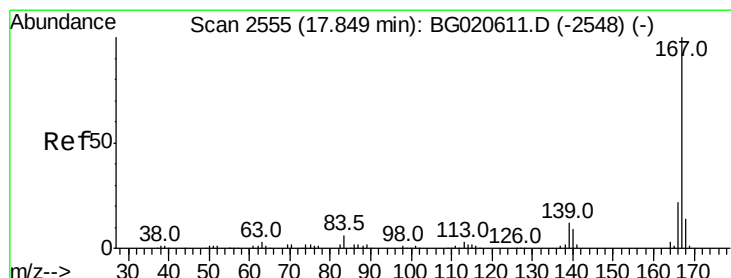
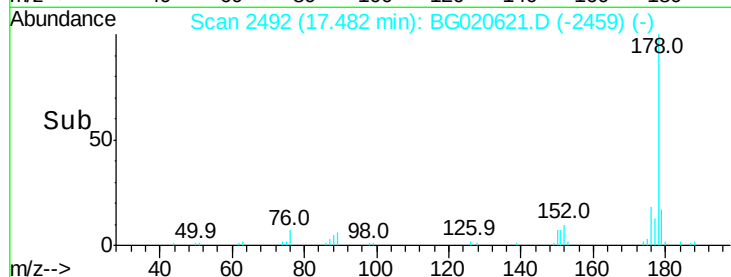
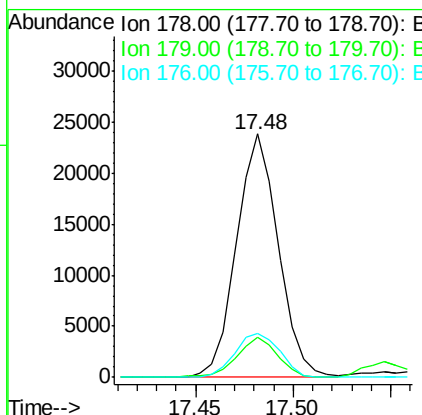
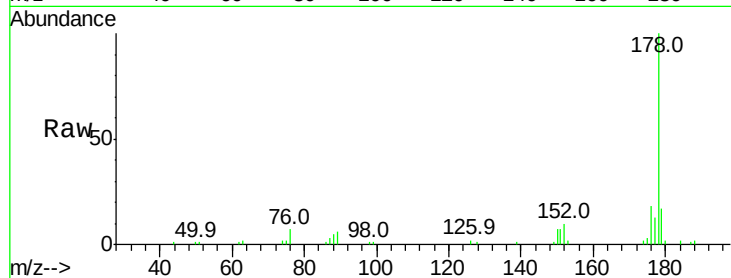
#70  
Phenanthrene  
Concen: 5.05 ng/ul  
RT: 17.48 min Scan# 2492  
Delta R.T. -0.00 min  
Lab File: BG020621.D  
Acq: 30 Dec 2015 23:05

Instrument :  
BNA\_G  
ClientSampleId :  
D9N49DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.7  | 12.3  | 18.5  |
| 176     | 18.1  | 15.4  | 23.0  |

Manual Integrations  
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#75  
Carbazole  
Concen: 3.91 ng/ul  
RT: 17.85 min Scan# 2554  
Delta R.T. -0.00 min  
Lab File: BG020621.D  
Acq: 30 Dec 2015 23:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 20.7  | 17.0  | 25.4  |
| 139     | 12.1  | 9.1   | 13.7  |

