

Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\  
 Data File : BG020443.D  
 Acq On : 23 Dec 2015 14:49  
 Operator : UM/SJ  
 Sample : G4768-20DL 125X  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleID :  
 D9N44DL

Manual Integrations  
 APPROVED

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 12/24/2015 5:32:18 PM

Quant Time: Dec 23 16:56:14 2015  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Dec 22 05:02:37 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.09  | 152  | 14691    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.90 | 136  | 67499    | 20.00 | ng/ul | -0.01    |
| 36) Acenaphthene-d10      | 14.71 | 164  | 53487    | 20.00 | ng/ul | -0.01    |
| 62) Phenanthrene-d10      | 17.46 | 188  | 148699   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.73 | 240  | 187323   | 20.00 | ng/ul | -0.01    |
| 86) Perylene-d12          | 25.00 | 264  | 180019   | 20.00 | ng/ul | -0.02    |

| System Monitoring Compounds    | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 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      | 10.53 | 165  | 184      | 0.16 | ng/ul | 0.00     |
| 29) 4-Chloroaniline-d4         | 0.00  | 131  | 0        | 0.00 | ng/ul |          |
| 44) Dimethylphthalate-d6       | 14.11 | 166  | 1284     | 0.30 | ng/ul | -0.01    |
| 47) Acenaphthylene-d8          | 14.41 | 160  | 1511     | 0.30 | ng/ul | 0.00     |
| 52) 4-Nitrophenol-d4           | 0.00  | 143  | 0        | 0.00 | ng/ul |          |
| 58) Fluorene-d10               | 15.70 | 176  | 1570     | 0.40 | ng/ul | -0.02    |
| 63) 4,6-Dinitro-2-methylphenol | 0.00  | 200  | 0        | 0.00 | ng/ul |          |
| 71) Anthracene-d10             | 17.56 | 188  | 2806m    | 0.41 | ng/ul | -0.01    |
| 79) Pyrene-d10                 | 19.84 | 212  | 2226     | 0.25 | ng/ul | 0.00     |
| 90) Benzo(a)pyrene-d12         | 24.77 | 264  | 2136     | 0.24 | ng/ul | -0.02    |

| Target Compounds        | R.T.  | QIon | Response | Conc  | Units | Ovalue |
|-------------------------|-------|------|----------|-------|-------|--------|
| 28) Naphthalene         | 10.95 | 128  | 143832   | 40.80 | ng/ul | 99     |
| 34) 2-Methylnaphthalene | 12.55 | 142  | 13139    | 4.88  | ng/ul | 97     |
| 50) Acenaphthene        | 14.78 | 153  | 16944    | 4.71  | ng/ul | 99     |
| 54) Dibenzofuran        | 15.11 | 168  | 14069    | 2.63  | ng/ul | 98     |
| 59) Fluorene            | 15.76 | 166  | 9610     | 2.24  | ng/ul | 92     |
| 70) Phenanthrene        | 17.50 | 178  | 18656    | 2.29  | ng/ul | 98     |
| 75) Carbazole           | 17.86 | 167  | 24390    | 3.52  | ng/ul | 99     |

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

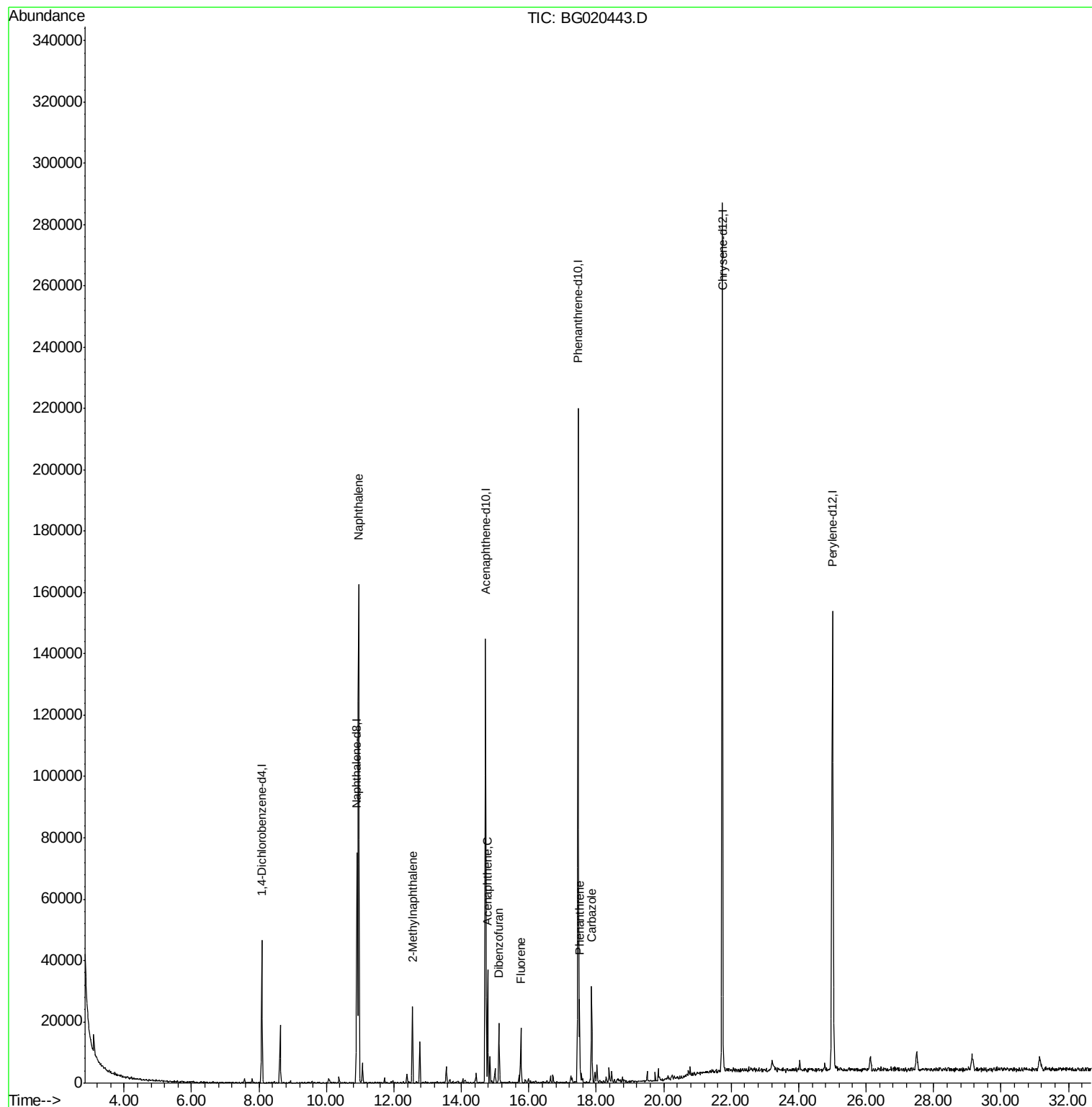
Data Path : Z:\HPCHEM1\BNA G\DATA\BG122215\  
Data File : BG020443.D  
Acq On : 23 Dec 2015 14:49  
Operator : UM/SJ  
Sample : G4768-20DL 125X  
Misc :  
ALS Vial : 34 Sample Multiplier: 1

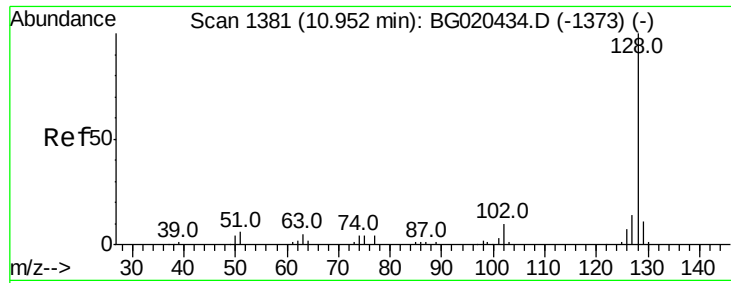
Instrument :  
BNA\_G  
ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG121415.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Tue Dec 22 05:02:37 2015  
Response via : Initial Calibration





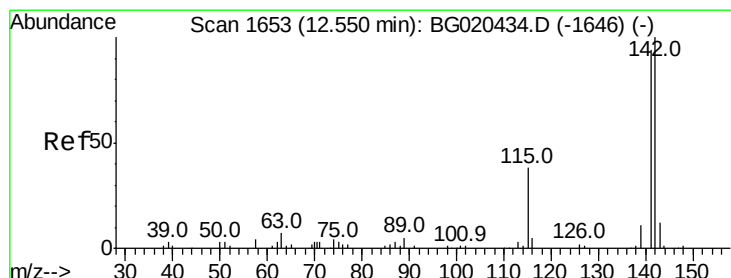
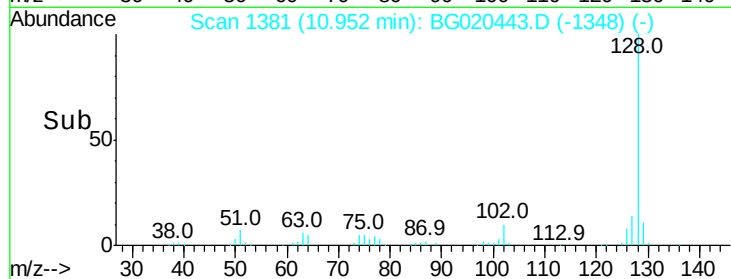
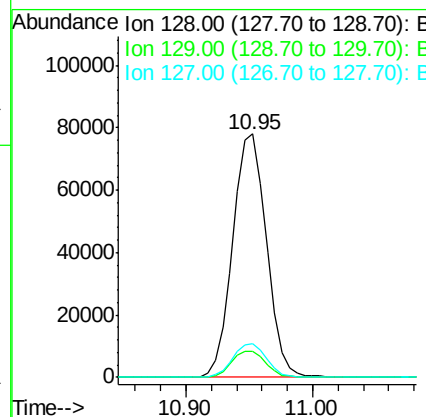
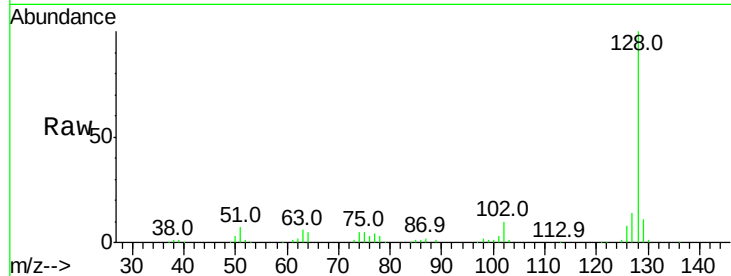
#28  
Naphthalene  
Concen: 40.80 ng/ul  
RT: 10.95 min Scan# 1381  
Delta R.T. -0.01 min  
Lab File: BG020443.D  
Acq: 23 Dec 2015 14:49

Instrument :  
BNA\_G  
ClientSampleId :  
D9N44DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 10.8  | 8.6   | 12.8  |
| 127     | 13.6  | 10.1  | 15.1  |

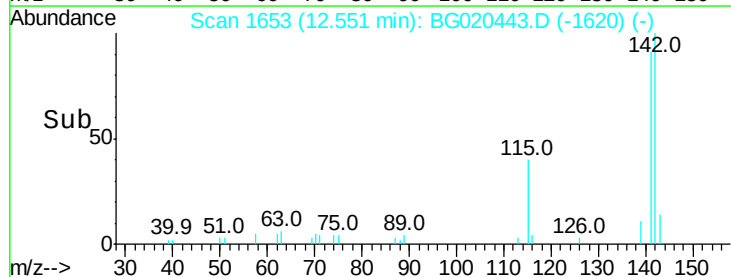
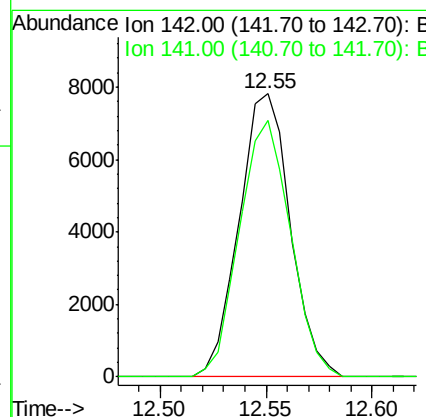
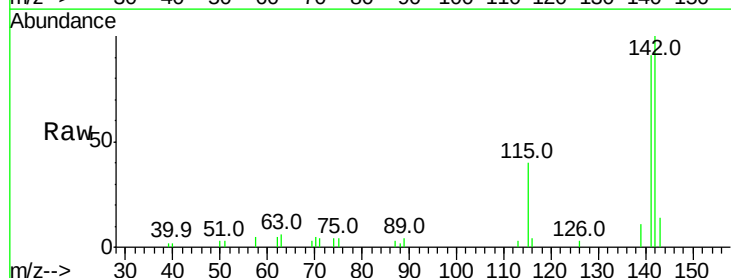
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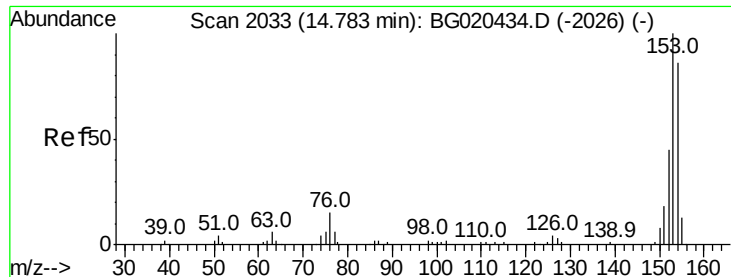
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#34  
2-Methylnaphthalene  
Concen: 4.88 ng/ul  
RT: 12.55 min Scan# 1653  
Delta R.T. -0.01 min  
Lab File: BG020443.D  
Acq: 23 Dec 2015 14:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 90.7  | 74.9  | 112.3 |





#50

Acenaphthene

Concen: 4.71 ng/ul

RT: 14.78 min Scan# 2032

Delta R.T. -0.01 min

Lab File: BG020443.D

Acq: 23 Dec 2015 14:49

Instrument :

BNA\_G

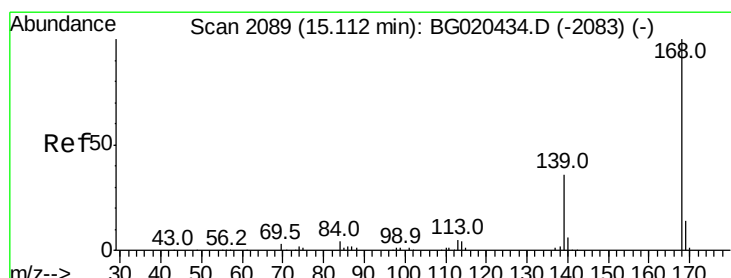
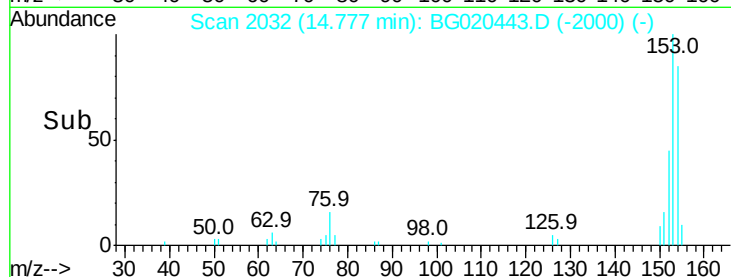
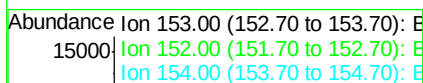
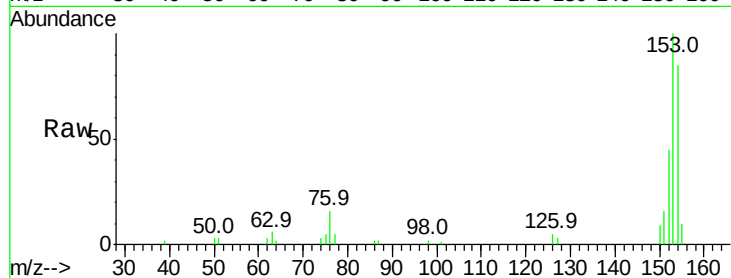
ClientSampleID :

D9N44DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 153   | Resp: | 16944 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 45.2  | 37.6  | 56.4  |
| 154       | 85.2  | 67.9  | 101.9 |

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#54

Dibenzofuran

Concen: 2.63 ng/ul

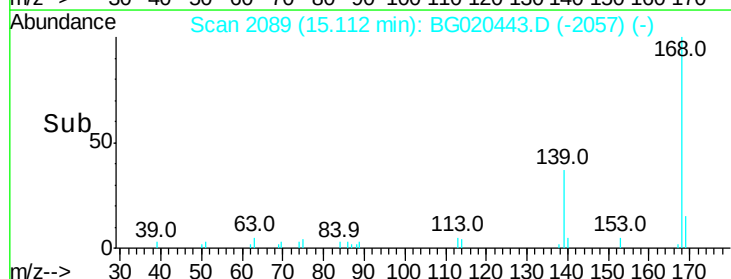
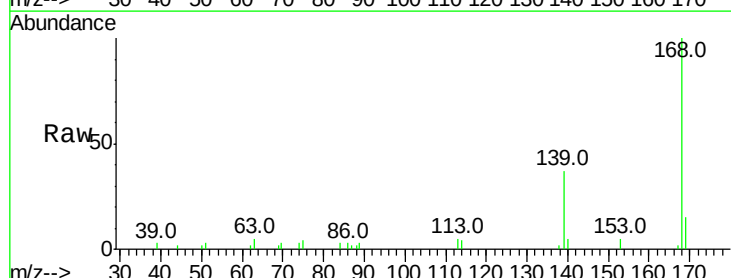
RT: 15.11 min Scan# 2089

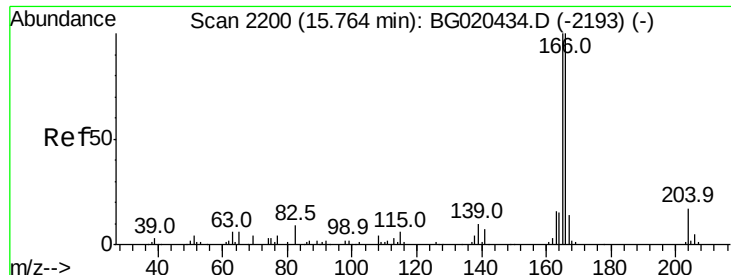
Delta R.T. -0.01 min

Lab File: BG020443.D

Acq: 23 Dec 2015 14:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 168   | Resp: | 14069 |
| Ion Ratio | Lower | Upper |       |
| 168       | 100   |       |       |
| 139       | 36.7  | 30.5  | 45.7  |





#59

Fluorene

Concen: 2.24 ng/ul

RT: 15.76 min Scan# 2199

Delta R.T. -0.01 min

Lab File: BG020443.D

Acq: 23 Dec 2015 14:49

Instrument :

BNA\_G

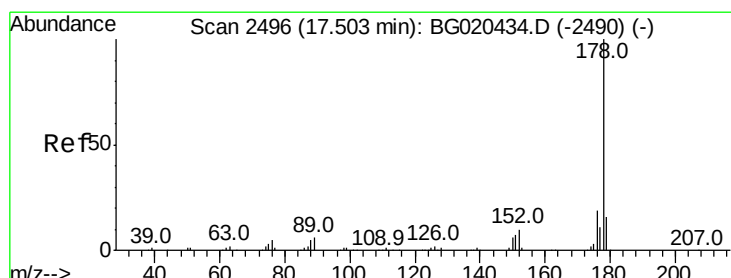
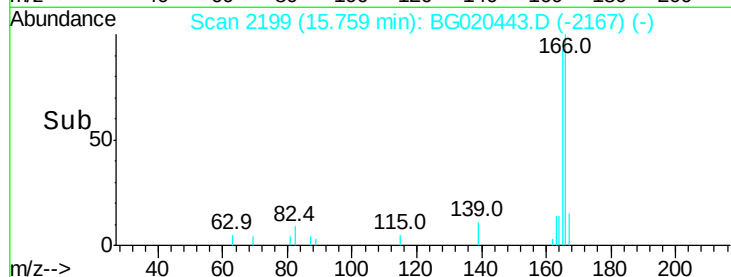
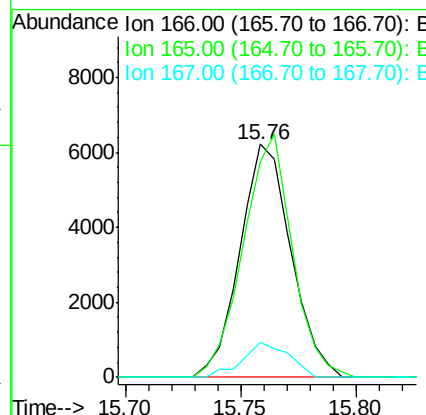
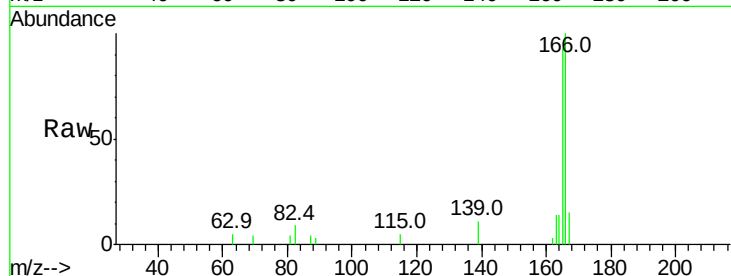
ClientSampleId :

D9N44DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 9610  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 92.6  | 81.4  | 122.0 |
| 167       | 14.8  | 11.2  | 16.8  |

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#70

Phenanthrene

Concen: 2.29 ng/ul

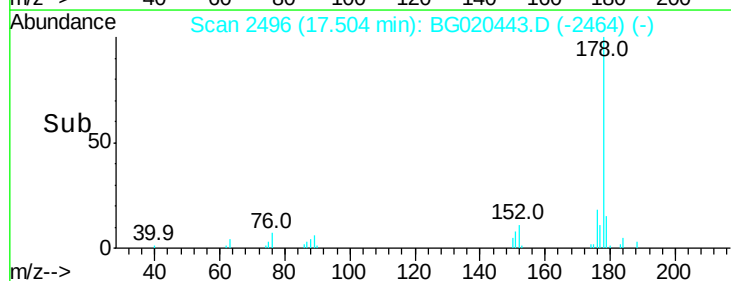
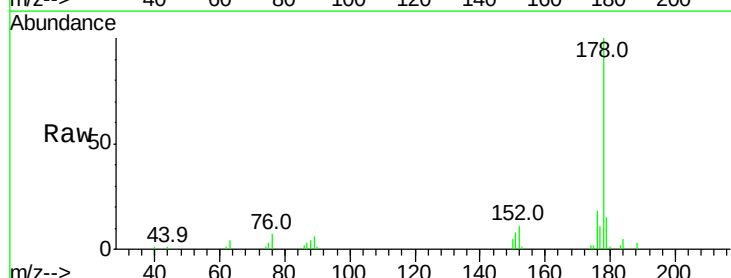
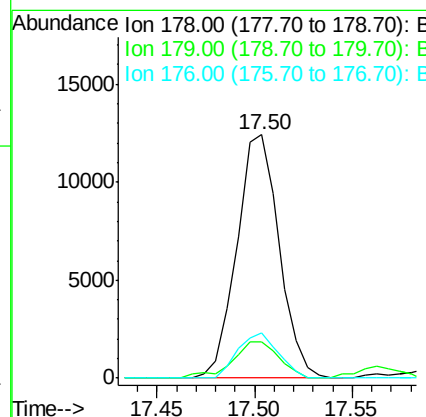
RT: 17.50 min Scan# 2496

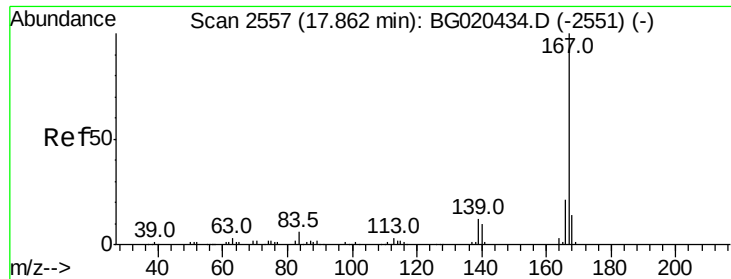
Delta R.T. -0.01 min

Lab File: BG020443.D

Acq: 23 Dec 2015 14:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 18656 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 14.9  | 12.9  | 19.3  |
| 176       | 18.5  | 15.3  | 22.9  |





#75  
 Carbazole  
 Concen: 3.52 ng/ul  
 RT: 17.86 min Scan# 2557  
 Delta R.T. -0.01 min  
 Lab File: BG020443.D  
 Acq: 23 Dec 2015 14:49

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9N44DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 21.8  | 17.0  | 25.6  |
| 139     | 12.6  | 10.1  | 15.1  |

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