

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG011316\  
 Data File : BG020723.D  
 Acq On : 14 Jan 2016 6:07  
 Operator : SJ/IZ  
 Sample : H1096-07  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BC937

Manual Integrations  
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MMdadoda  
 1/14/2016 5:57:51 PM

Quant Time: Jan 14 11:25:24 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG011216.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jan 13 07:56:00 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.04  | 152  | 19468    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.86 | 136  | 85028    | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.68 | 164  | 60337    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.43 | 188  | 150759   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.70 | 240  | 179362   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 24.96 | 264  | 169375   | 20.00 | ng/ul | 0.00     |

| System Monitoring Compounds    | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 3) 1,4-Dioxane-d8              | 3.41  | 96   | 636      | 1.60  | ng/uL | 0.00     |
| 5) Phenol-d5                   | 7.21  | 99   | 14557    | 8.73  | ng/ul | 0.00     |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.36  | 67   | 9929     | 9.90  | ng/ul | 0.00     |
| 9) 2-Chlorophenol-d4           | 7.58  | 132  | 12999    | 9.93  | ng/ul | 0.00     |
| 13) 4-Methylphenol-d8          | 8.76  | 113  | 5794     | 4.12  | ng/ul | 0.00     |
| 19) Nitrobenzene-d5            | 9.21  | 128  | 7076     | 10.55 | ng/ul | 0.00     |
| 22) 2-Nitrophenol-d4           | 9.94  | 143  | 7954     | 10.20 | ng/ul | 0.00     |
| 26) 2,4-Dichlorophenol-d3      | 10.48 | 165  | 13477    | 9.08  | ng/ul | 0.00     |
| 29) 4-Chloroaniline-d4         | 11.00 | 131  | 9754     | 6.64  | ng/ul | 0.00     |
| 44) Dimethylphthalate-d6       | 14.08 | 166  | 54425    | 10.34 | ng/ul | 0.00     |
| 47) Acenaphthylene-d8          | 14.37 | 160  | 64867    | 10.97 | ng/ul | 0.00     |
| 52) 4-Nitrophenol-d4           | 14.90 | 143  | 3791     | 5.36  | ng/ul | 0.00     |
| 58) Fluorene-d10               | 15.67 | 176  | 51724    | 11.02 | ng/ul | 0.00     |
| 63) 4,6-Dinitro-2-methylphenol | 15.80 | 200  | 6219     | 7.58  | ng/ul | 0.00     |
| 71) Anthracene-d10             | 17.52 | 188  | 82453    | 11.16 | ng/ul | 0.00     |
| 79) Pyrene-d10                 | 19.81 | 212  | 98015    | 11.49 | ng/ul | 0.00     |
| 90) Benzo(a)pyrene-d12         | 24.73 | 264  | 101399   | 11.23 | ng/ul | 0.00     |

| Target Compounds           | R.T.  | QIon | Response | Conc  | Units  | Qvalue |
|----------------------------|-------|------|----------|-------|--------|--------|
| 45) Dimethylphthalate      | 14.13 | 163  | 22316    | 3.94  | ng/ul  | 99     |
| 70) Phenanthrene           | 17.47 | 178  | 43237    | 4.82  | ng/ul  | 98     |
| 77) Fluoranthene           | 19.48 | 202  | 107910   | 9.90  | ng/ul  | 99     |
| 80) Pyrene                 | 19.84 | 202  | 146249   | 12.86 | ng/ul  | 99     |
| 83) Benzo(a)anthracene     | 21.68 | 228  | 72042    | 6.44  | ng/ul  | 99     |
| 85) Chrysene               | 21.75 | 228  | 85085    | 8.04  | ng/ul  | 100    |
| 88) Benzo(b)fluoranthene   | 23.92 | 252  | 83473    | 7.65  | ng/ul# | 98     |
| 89) Benzo(k)fluoranthene   | 23.98 | 252  | 28542m   | 2.65  | ng/ul  |        |
| 91) Benzo(a)pyrene         | 24.80 | 252  | 72008    | 6.86  | ng/ul  | 97     |
| 92) Indeno(1,2,3-cd)pyrene | 28.67 | 276  | 44635    | 3.60  | ng/ul  | 96     |
| 94) Benzo(g,h,i)perylene   | 29.84 | 276  | 47433m   | 4.64  | ng/ul  |        |

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

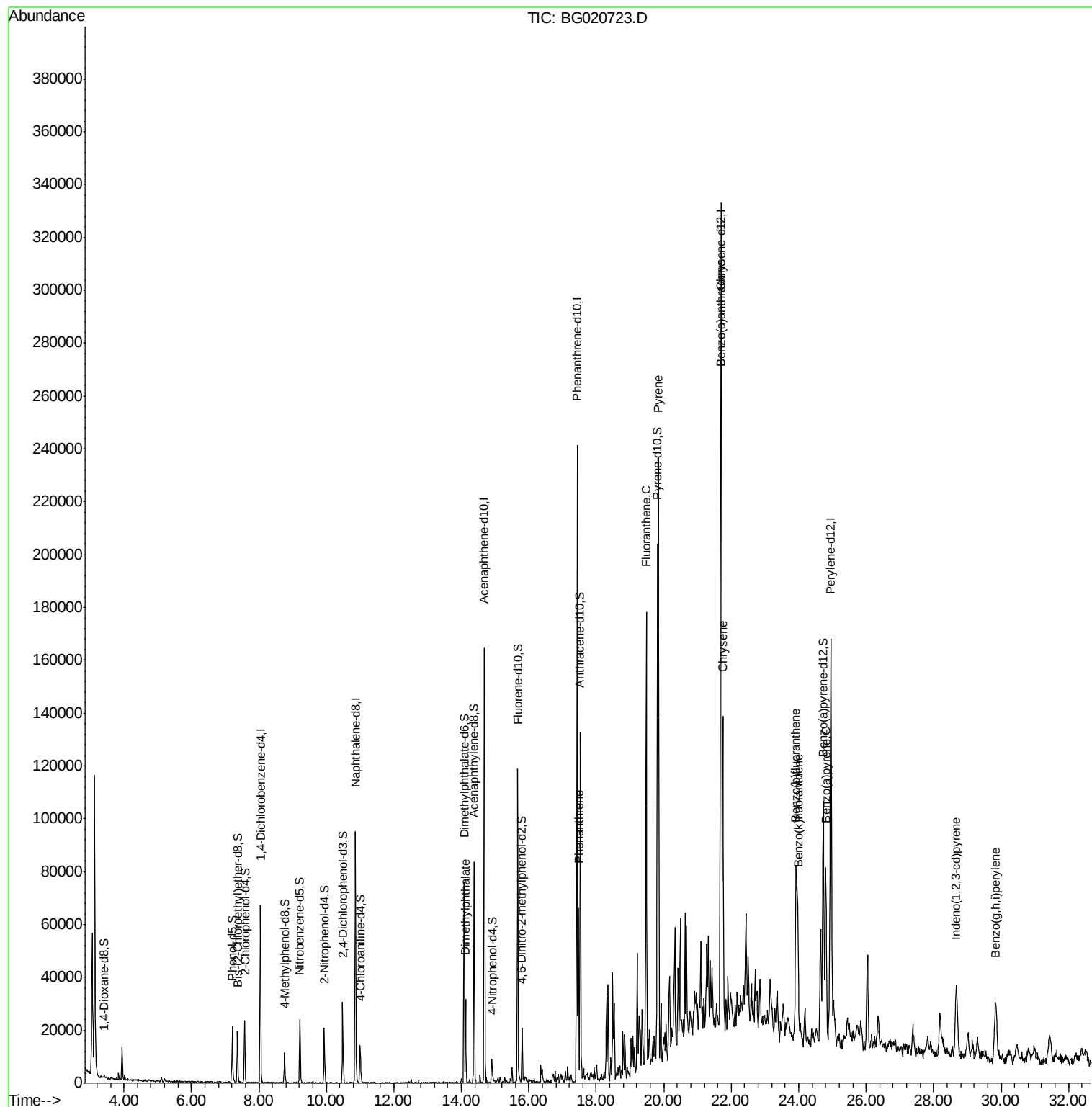
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG011316\  
Data File : BG020723.D  
Acq On : 14 Jan 2016 6:07  
Operator : SJ/IZ  
Sample : H1096-07  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

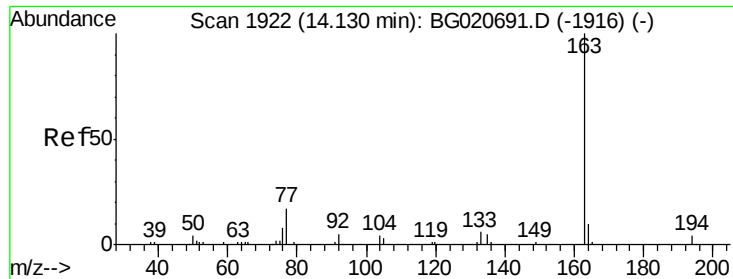
Instrument :  
BNA\_G  
ClientSampleId :  
BC937

Manual Integrations  
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Quant Time: Jan 14 11:25:24 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG011216.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Jan 13 07:56:00 2016  
Response via : Initial Calibration





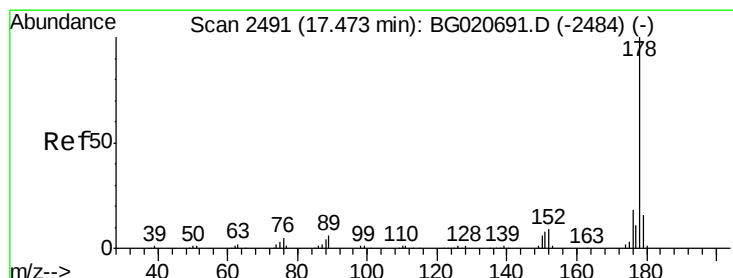
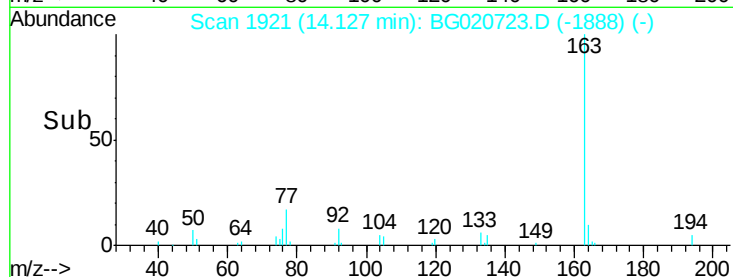
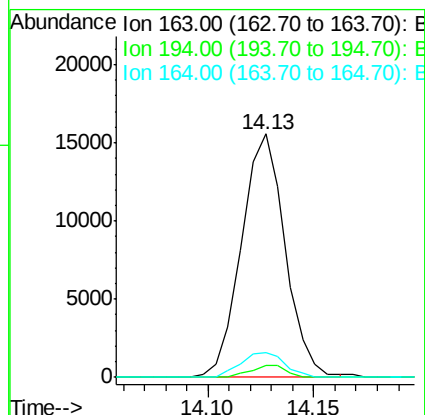
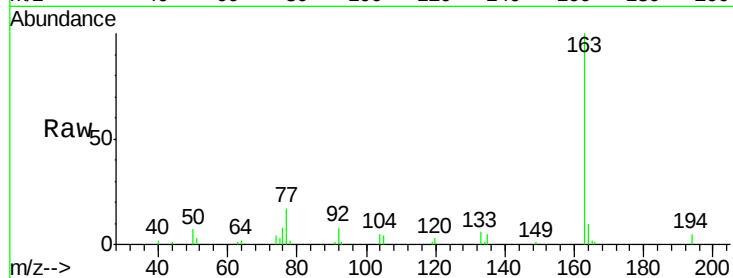
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Dimethylphthalate  
Concen: 3.94 ng/ul  
RT: 14.13 min Scan# 1921  
Delta R.T. -0.00 min  
Lab File: BG020723.D  
Acq: 14 Jan 2016 6:07

Instrument :  
BNA\_G  
ClientSampleId :  
BC937

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 22316 |       |       |
| 194     | 4.9   |       | 4.0   | 6.0   |
| 164     | 10.1  |       | 8.4   | 12.6  |

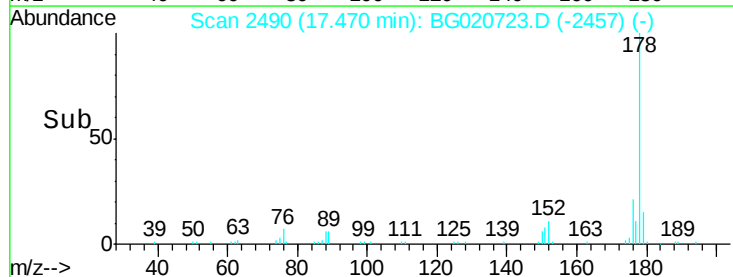
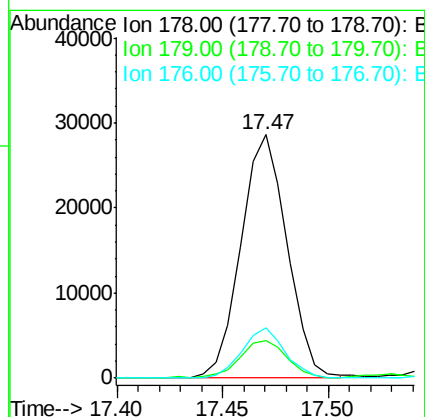
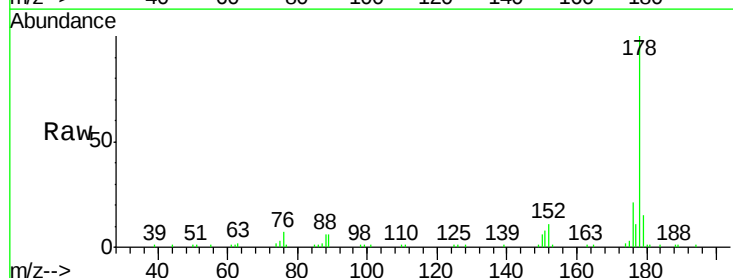
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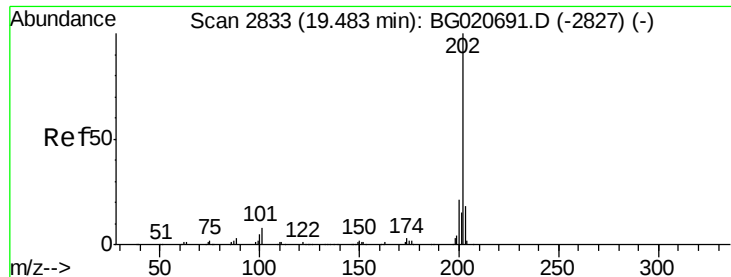
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#70  
Phenanthrene  
Concen: 4.82 ng/ul  
RT: 17.47 min Scan# 2490  
Delta R.T. -0.00 min  
Lab File: BG020723.D  
Acq: 14 Jan 2016 6:07

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 43237 |       |       |
| 179     | 15.2  |       | 12.3  | 18.5  |
| 176     | 20.8  |       | 15.4  | 23.0  |





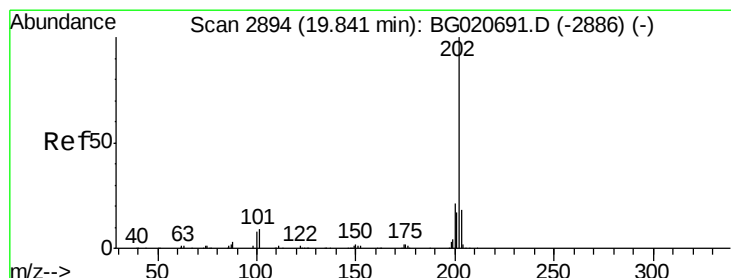
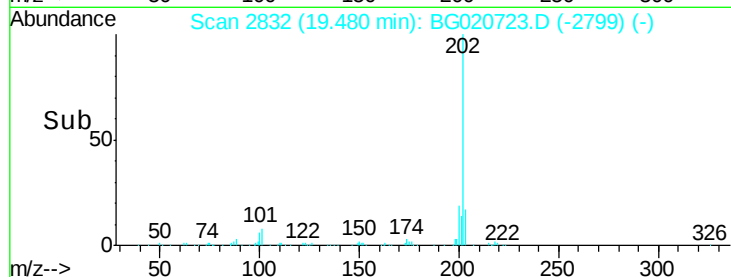
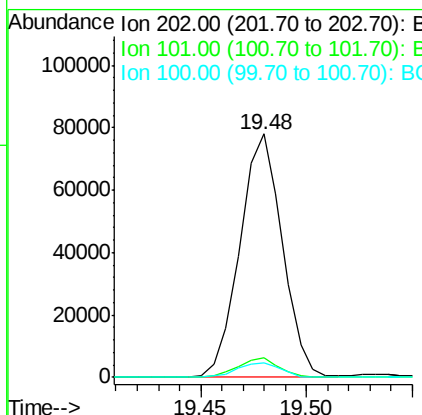
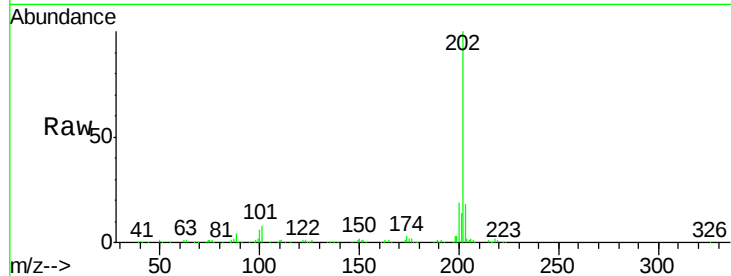
#77  
 Fluoranthene  
 Concen: 9.90 ng/ul  
 RT: 19.48 min Scan# 2832  
 Delta R.T. -0.00 min  
 Lab File: BG020723.D  
 Acq: 14 Jan 2016 6:07

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BC937

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 107910 |       |       |
| 101     | 8.3   | 6.1    | 9.1   |       |
| 100     | 5.9   | 4.6    | 7.0   |       |

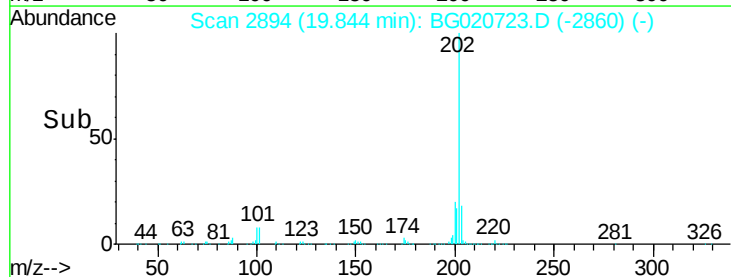
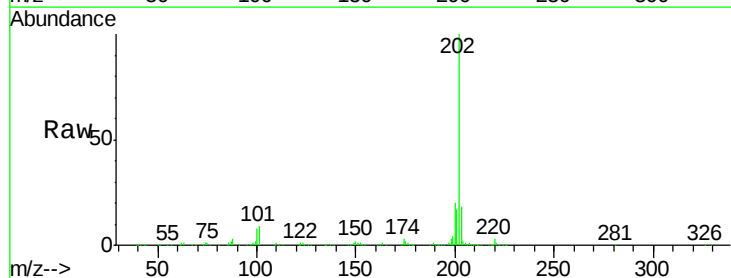
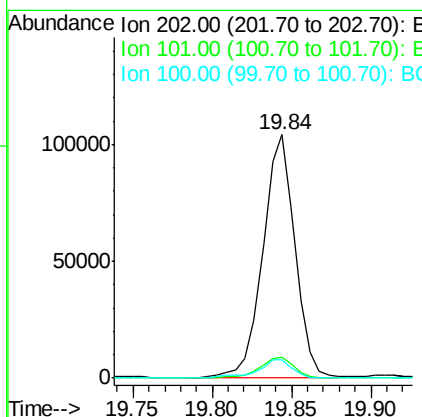
Manual Integrations  
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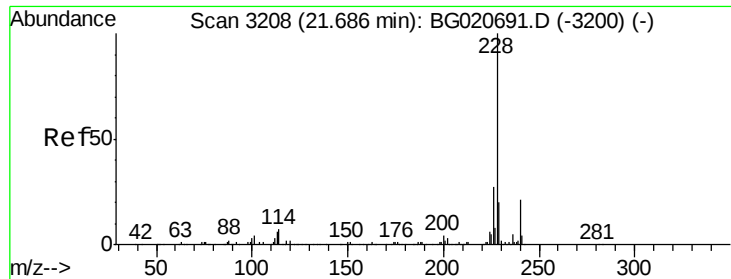
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#80  
 Pyrene  
 Concen: 12.86 ng/ul  
 RT: 19.84 min Scan# 2894  
 Delta R.T. 0.00 min  
 Lab File: BG020723.D  
 Acq: 14 Jan 2016 6:07

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 146249 |       |       |
| 101     | 8.6   | 6.9    | 10.3  |       |
| 100     | 7.5   | 5.6    | 8.4   |       |





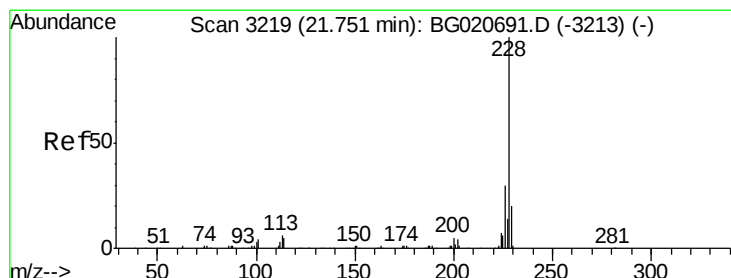
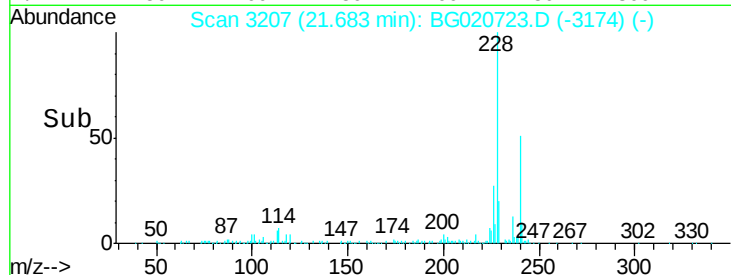
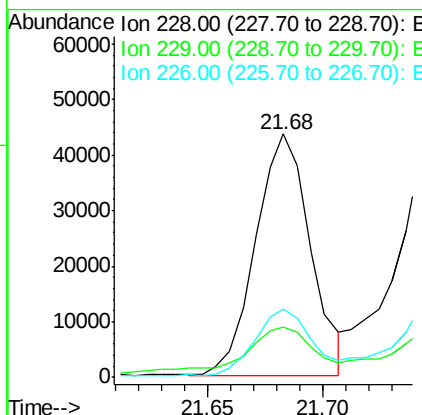
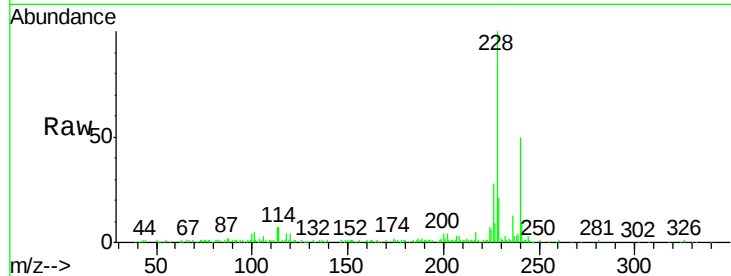
#83  
Benzo(a)anthracene  
Concen: 6.44 ng/u1  
RT: 21.68 min Scan# 3207  
Delta R.T. -0.00 min  
Lab File: BG020723.D  
Acq: 14 Jan 2016 6:07

Instrument :  
BNA\_G  
ClientSampleId :  
BC937

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.9  | 16.0  | 24.0  |
| 226     | 27.8  | 21.8  | 32.8  |

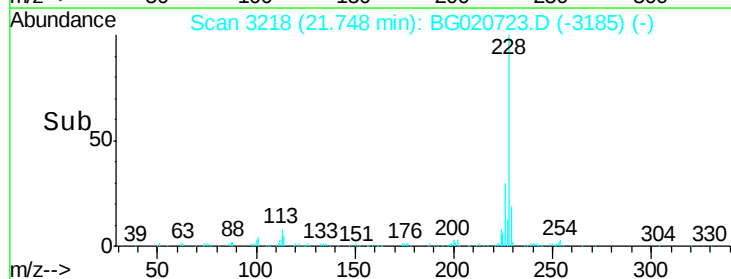
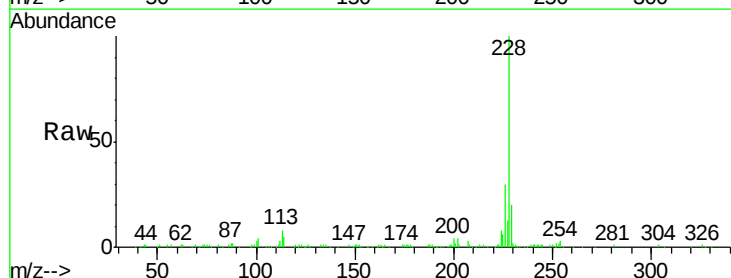
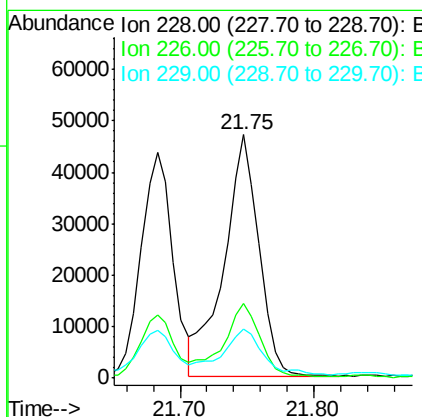
Manual Integrations  
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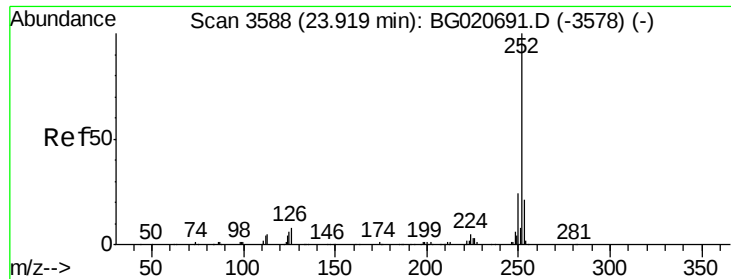
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#85  
Chrysene  
Concen: 8.04 ng/u1  
RT: 21.75 min Scan# 3218  
Delta R.T. -0.00 min  
Lab File: BG020723.D  
Acq: 14 Jan 2016 6:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.5  | 24.1  | 36.1  |
| 229     | 20.1  | 16.0  | 24.0  |





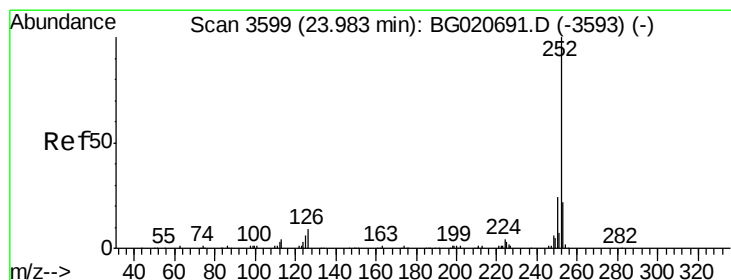
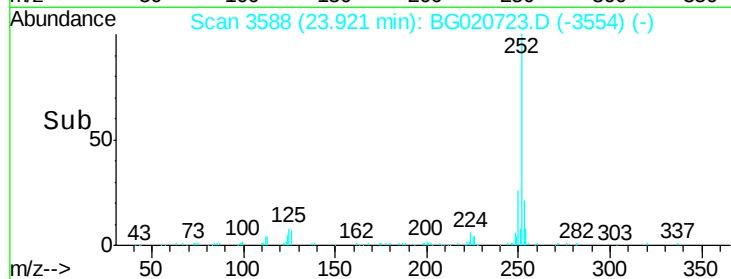
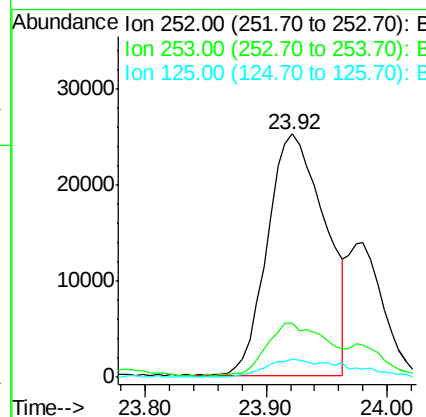
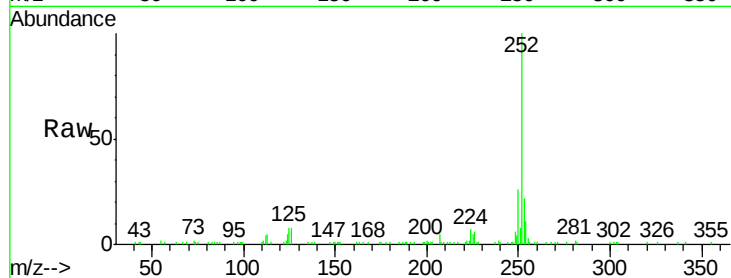
#88  
Benzo(b)fluoranthene  
Concen: 7.65 ng/u1  
RT: 23.92 min Scan# 3588  
Delta R.T. 0.00 min  
Lab File: BG020723.D  
Acq: 14 Jan 2016 6:07

Instrument :  
BNA\_G  
ClientSampleId :  
BC937

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.1  | 17.4  | 26.0  |
| 125     | 7.7   | 4.9   | 7.3   |

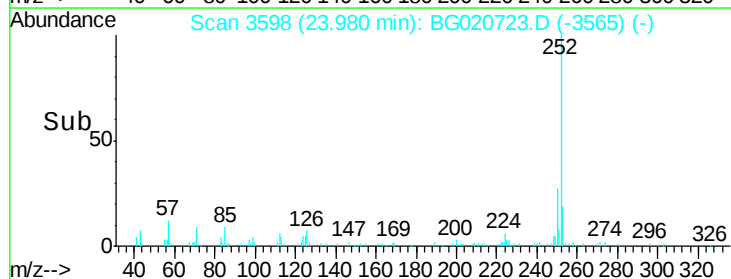
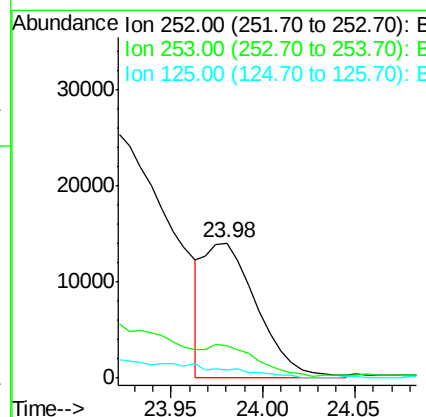
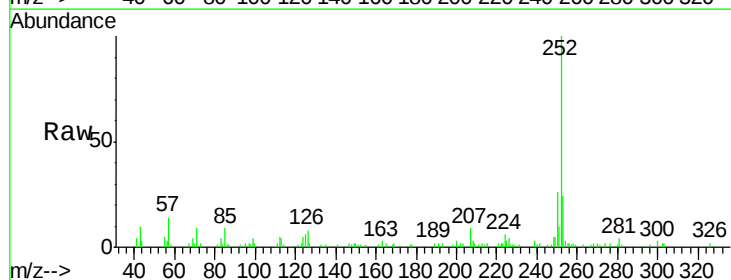
Manual Integrations  
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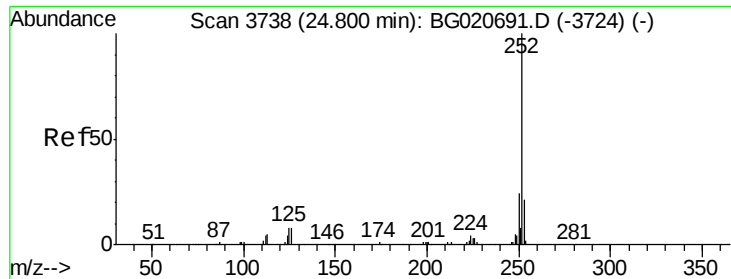
MMdadoda  
1/14/2016 5:57:51 PM



#89  
Benzo(k)fluoranthene  
Concen: 2.65 ng/u1 m  
RT: 23.98 min Scan# 3598  
Delta R.T. -0.00 min  
Lab File: BG020723.D  
Acq: 14 Jan 2016 6:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.3  | 17.1  | 25.7  |
| 125     | 6.3   | 5.4   | 8.0   |





#91

Benzo(a)pyrene

Concen: 6.86 ng/ul

RT: 24.80 min Scan# 3738

Delta R.T. 0.00 min

Lab File: BG020723.D

Acq: 14 Jan 2016 6:07

Instrument :

BNA\_G

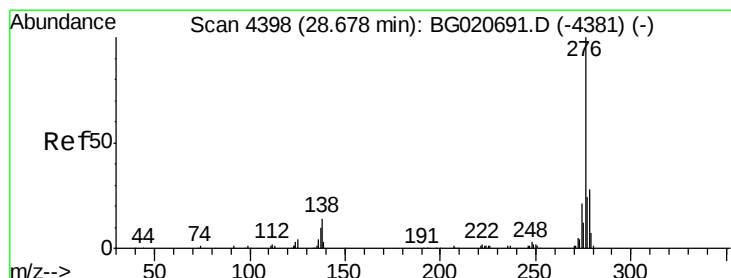
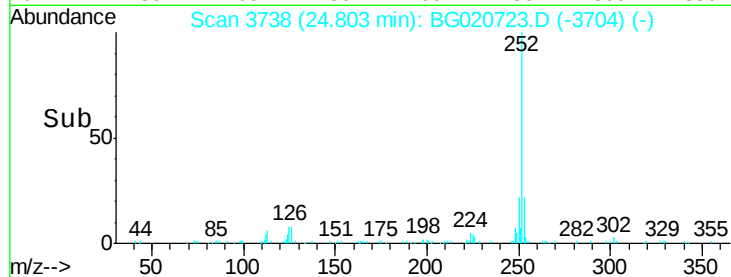
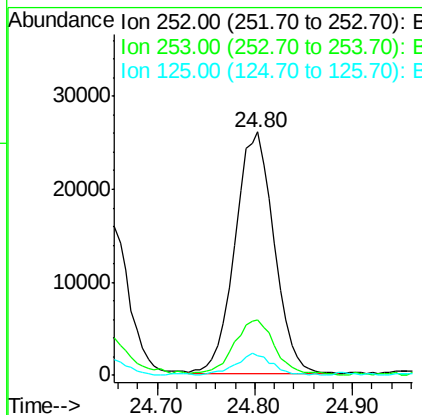
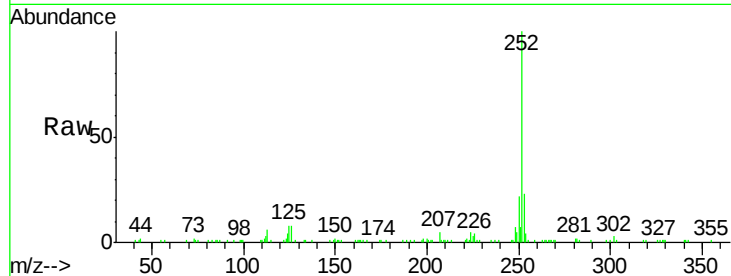
ClientSampleId :

BC937

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 72008 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.9  | 17.2  | 25.8  |
| 125       | 7.8   | 5.8   | 8.6   |

Manual Integrations  
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#92

Indeno(1,2,3-cd)pyrene

Concen: 3.60 ng/ul

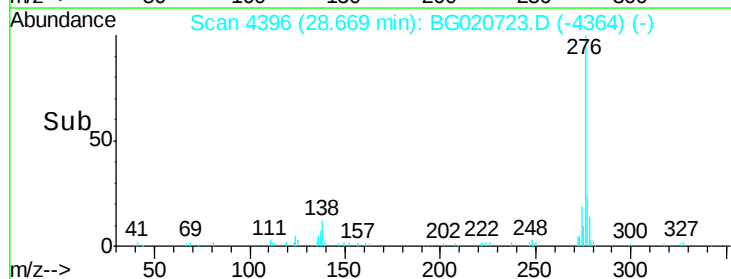
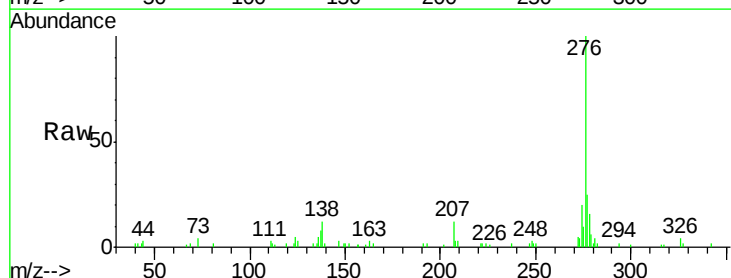
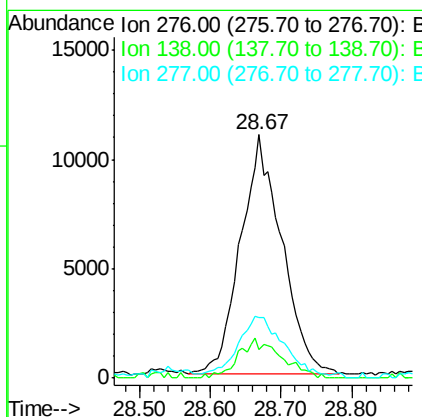
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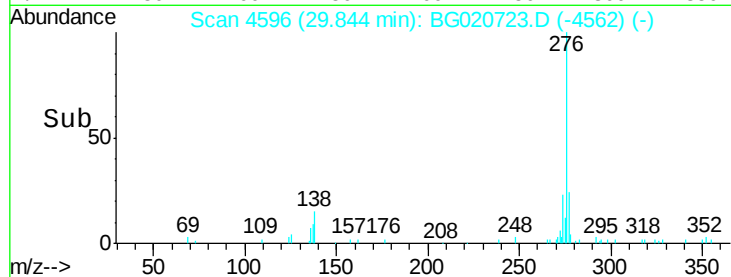
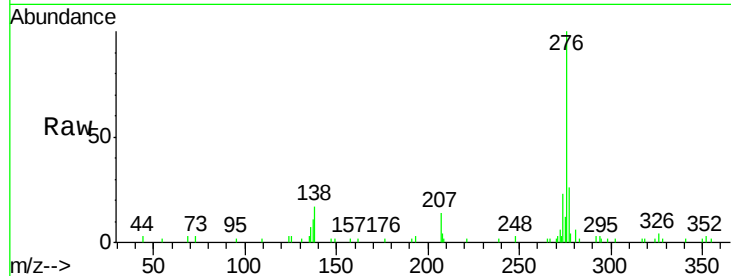
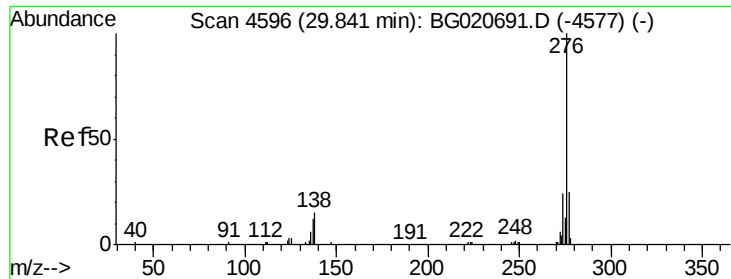
Delta R.T. -0.01 min

Lab File: BG020723.D

Acq: 14 Jan 2016 6:07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 44635 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 11.5  | 10.9  | 16.3  |
| 277       | 24.9  | 18.9  | 28.3  |





#94

Benzo(g,h,i)perylene

Concen: 4.64 ng/ul m

RT: 29.84 min Scan# 4596

Delta R.T. 0.00 min

Lab File: BG020723.D

Acq: 14 Jan 2016 6:07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 47433 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 16.7  | 11.2  | 16.8  |
| 277       | 25.8  | 19.0  | 28.6  |

Instrument :

BNA\_G

ClientSampleId :

BC937

Manual Integrations  
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