

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG011316\  
 Data File : BG020717.D  
 Acq On : 14 Jan 2016 2:13  
 Operator : SJ/IZ  
 Sample : H1096-01 10X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BC931

Manual Integrations  
 APPROVED

MMdadoda  
 1/14/2016 5:57:43 PM

Quant Time: Jan 14 10:35:05 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  | 15627    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.86 | 136  | 70958    | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.68 | 164  | 51491    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.43 | 188  | 137446   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.70 | 240  | 162386   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 24.95 | 264  | 154397   | 20.00 | ng/ul | 0.00     |

| 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                   | 7.22  | 99   | 1781m    | 1.33 | ng/ul | 0.02     |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.36  | 67   | 689      | 0.86 | ng/ul | 0.00     |
| 9) 2-Chlorophenol-d4           | 7.58  | 132  | 1572     | 1.50 | ng/ul | 0.00     |
| 13) 4-Methylphenol-d8          | 8.77  | 113  | 1368     | 1.21 | ng/ul | 0.02     |
| 19) Nitrobenzene-d5            | 9.22  | 128  | 650      | 1.16 | ng/ul | 0.01     |
| 22) 2-Nitrophenol-d4           | 9.95  | 143  | 725      | 1.11 | ng/ul | 0.00     |
| 26) 2,4-Dichlorophenol-d3      | 10.51 | 165  | 1164     | 0.94 | ng/ul | 0.02     |
| 29) 4-Chloroaniline-d4         | 0.00  | 131  | 0        | 0.00 | ng/ul |          |
| 44) Dimethylphthalate-d6       | 14.08 | 166  | 7401     | 1.65 | ng/ul | 0.00     |
| 47) Acenaphthylene-d8          | 14.38 | 160  | 9530     | 1.89 | ng/ul | 0.00     |
| 52) 4-Nitrophenol-d4           | 0.00  | 143  | 0        | 0.00 | ng/ul |          |
| 58) Fluorene-d10               | 15.67 | 176  | 7818     | 1.95 | ng/ul | 0.00     |
| 63) 4,6-Dinitro-2-methylphenol | 15.81 | 200  | 455      | 0.61 | ng/ul | 0.00     |
| 71) Anthracene-d10             | 17.52 | 188  | 13592    | 2.02 | ng/ul | 0.00     |
| 79) Pyrene-d10                 | 19.81 | 212  | 15688    | 2.03 | ng/ul | 0.00     |
| 90) Benzo(a)pyrene-d12         | 24.73 | 264  | 16212    | 1.97 | ng/ul | 0.00     |

| Target Compounds           | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|----------------------------|-------|------|----------|-------|-------|--------|
| 70) Phenanthrene           | 17.47 | 178  | 108364   | 13.25 | ng/ul | 98     |
| 72) Anthracene             | 17.47 | 178  | 108364   | 13.13 | ng/ul | 97     |
| 77) Fluoranthene           | 19.48 | 202  | 158196   | 15.91 | ng/ul | 99     |
| 80) Pyrene                 | 19.84 | 202  | 215139   | 20.89 | ng/ul | 99     |
| 83) Benzo(a)anthracene     | 21.68 | 228  | 85028    | 8.39  | ng/ul | 98     |
| 85) Chrysene               | 21.75 | 228  | 105113   | 10.97 | ng/ul | 99     |
| 88) Benzo(b)fluoranthene   | 23.92 | 252  | 88939    | 8.94  | ng/ul | 99     |
| 89) Benzo(k)fluoranthene   | 23.97 | 252  | 27594m   | 2.81  | ng/ul |        |
| 91) Benzo(a)pyrene         | 24.79 | 252  | 75216    | 7.86  | ng/ul | 97     |
| 92) Indeno(1,2,3-cd)pyrene | 28.67 | 276  | 45683    | 4.05  | ng/ul | 98     |
| 94) Benzo(g,h,i)perylene   | 29.82 | 276  | 48523m   | 5.21  | ng/ul |        |

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

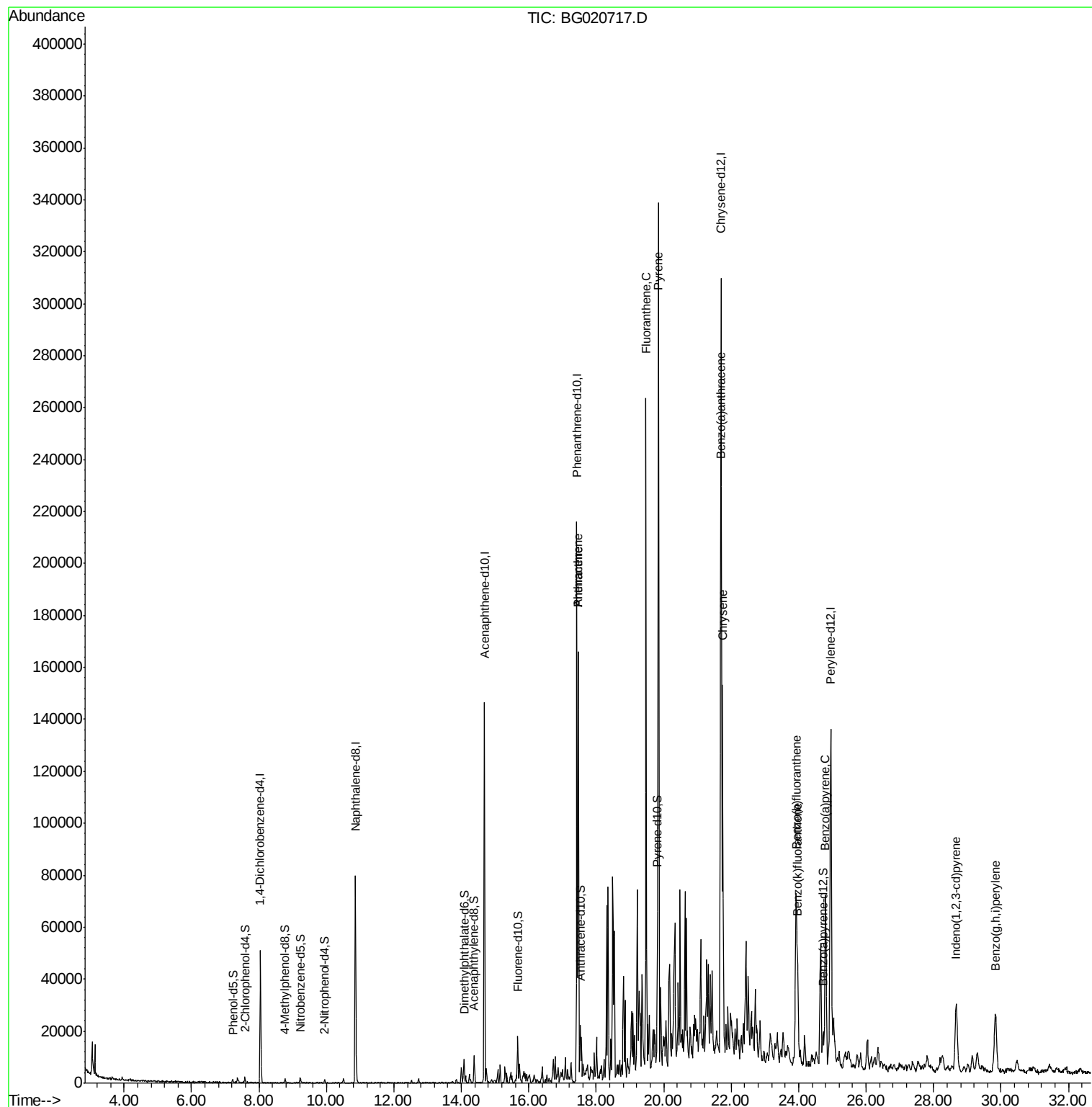
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG011316\  
Data File : BG020717.D  
Acq On : 14 Jan 2016 2:13  
Operator : SJ/IZ  
Sample : H1096-01 10X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

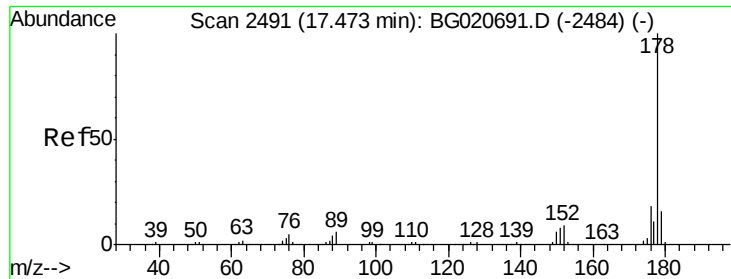
Instrument :  
BNA\_G  
ClientSampleId :  
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Quant Time: Jan 14 10:35:05 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG011216.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Jan 13 07:56:00 2016  
Response via : Initial Calibration





#70

Phenanthrene

Concen: 13.25 ng/ul

RT: 17.47 min Scan# 2490

Delta R.T. -0.01 min

Lab File: BG020717.D

Acq: 14 Jan 2016 2:13

Instrument :

BNA\_G

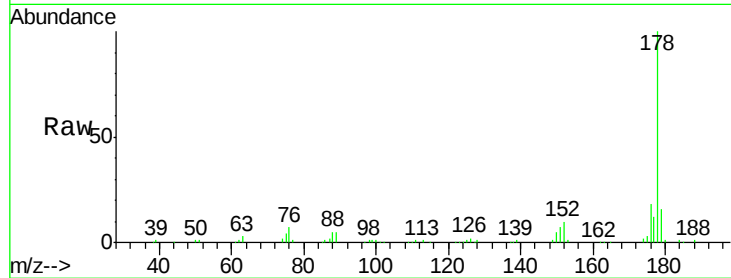
ClientSampleId :

BC931

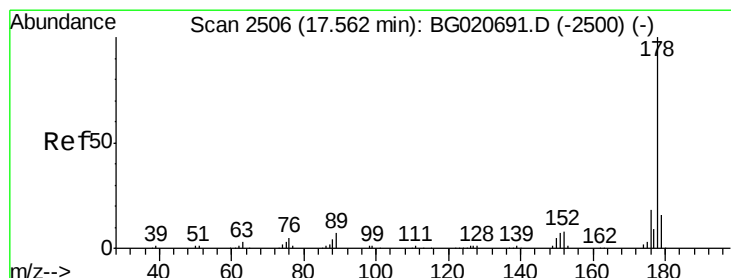
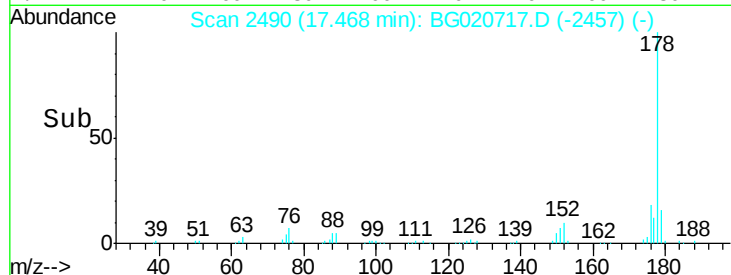
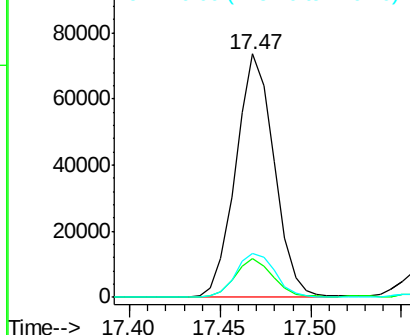
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 108364 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.9  | 12.3  | 18.5   |
| 176       | 17.8  | 15.4  | 23.0   |

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Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E



#72

Anthracene

Concen: 13.13 ng/ul

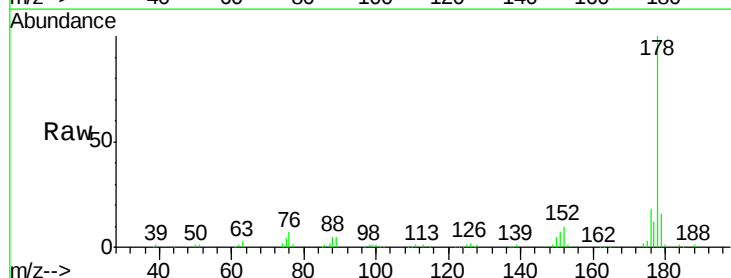
RT: 17.47 min Scan# 2490

Delta R.T. -0.09 min

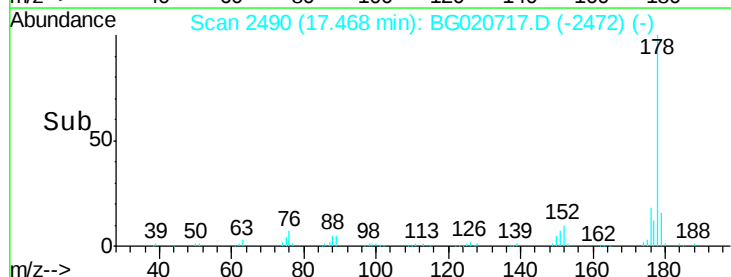
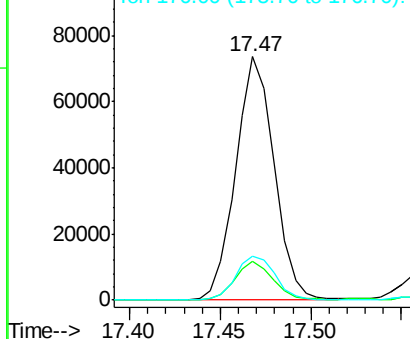
Lab File: BG020717.D

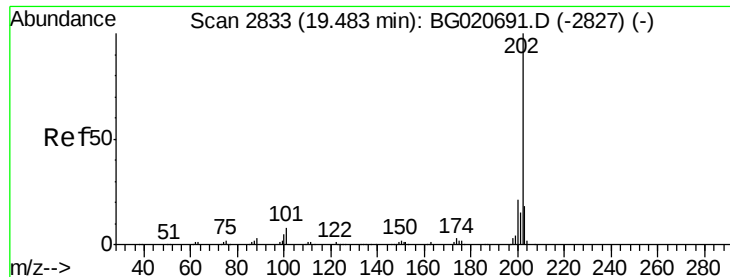
Acq: 14 Jan 2016 2:13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 108364 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.9  | 13.4  | 20.2   |
| 176       | 17.8  | 15.4  | 23.0   |



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E





#77

Fluoranthene

Concen: 15.91 ng/u1

RT: 19.48 min Scan# 2832

Delta R.T. -0.01 min

Lab File: BG020717.D

Acq: 14 Jan 2016 2:13

Instrument :

BNA\_G

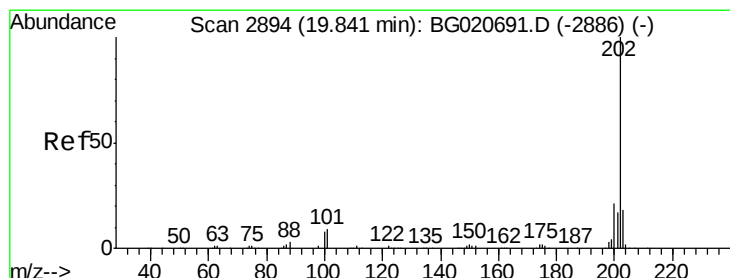
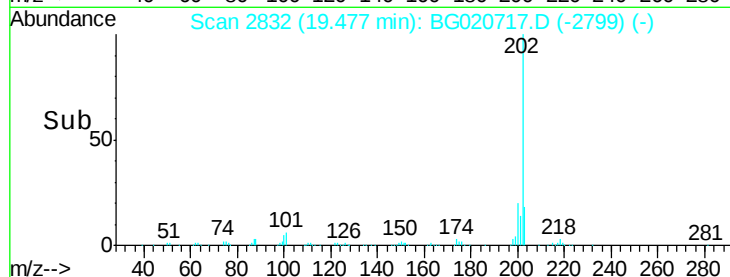
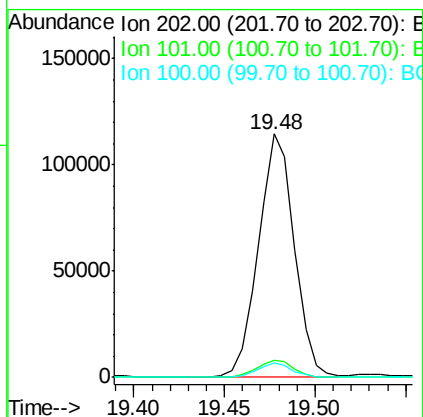
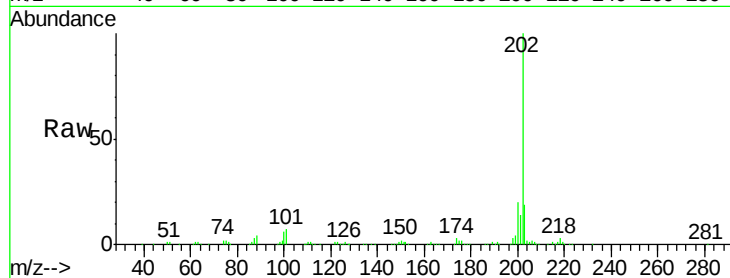
ClientSampleId :

BC931

| Tgt | Ion | Ratio | Resp   | Lower | Upper |
|-----|-----|-------|--------|-------|-------|
| 202 | 100 |       | 158196 |       |       |
| 101 | 6.9 | 6.1   | 9.1    |       |       |
| 100 | 5.7 | 4.6   | 7.0    |       |       |

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#80

Pyrene

Concen: 20.89 ng/u1

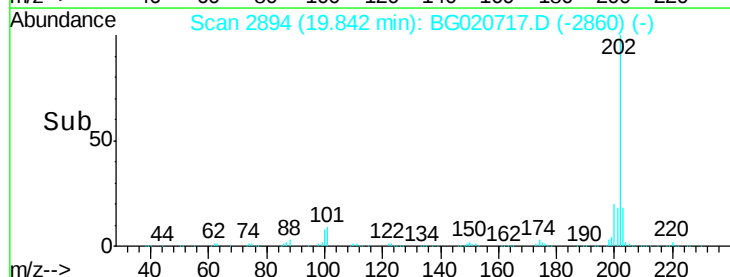
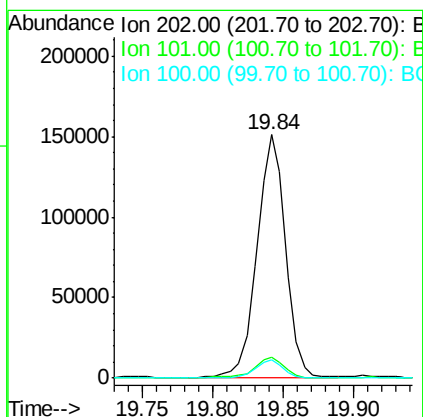
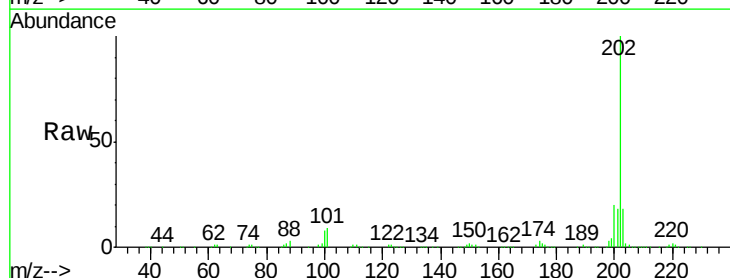
RT: 19.84 min Scan# 2894

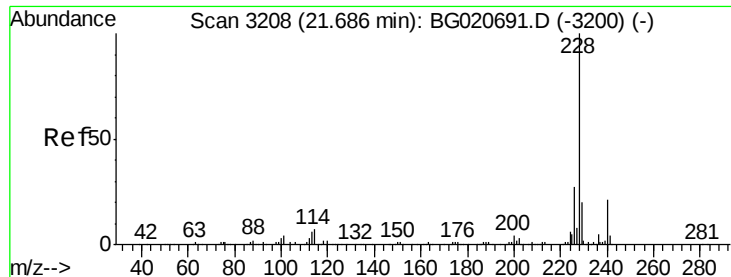
Delta R.T. 0.00 min

Lab File: BG020717.D

Acq: 14 Jan 2016 2:13

| Tgt | Ion | Ratio | Resp   | Lower | Upper |
|-----|-----|-------|--------|-------|-------|
| 202 | 100 |       | 215139 |       |       |
| 101 | 8.8 | 6.9   | 10.3   |       |       |
| 100 | 7.7 | 5.6   | 8.4    |       |       |





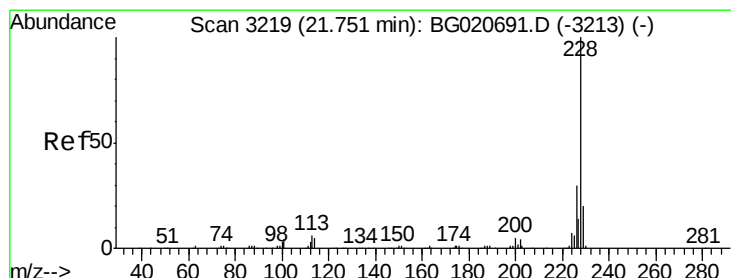
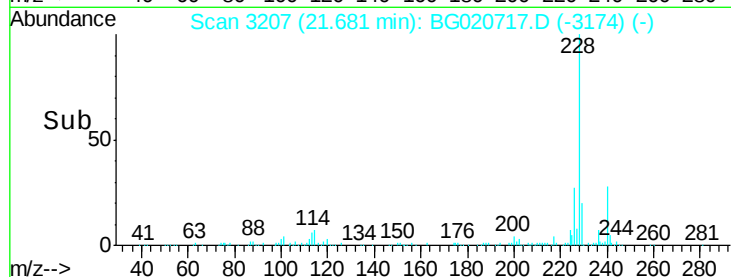
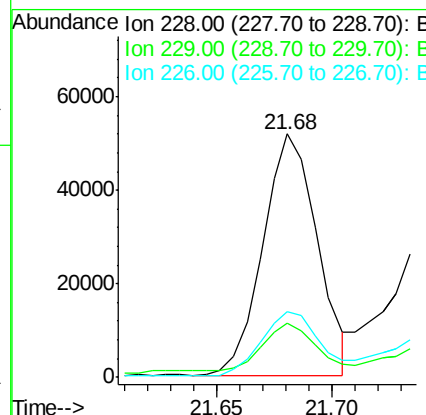
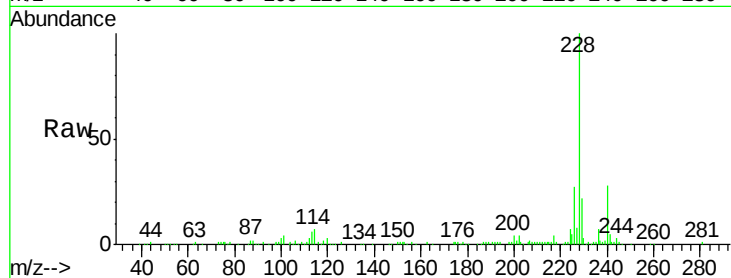
#83  
Benzo(a)anthracene  
Concen: 8.39 ng/ul  
RT: 21.68 min Scan# 3207  
Delta R.T. -0.01 min  
Lab File: BG020717.D  
Acq: 14 Jan 2016 2:13

Instrument :  
BNA\_G  
ClientSampleId :  
BC931

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 22.1  | 16.0       | 24.0       |
| 226     | 27.2  | 21.8       | 32.8       |

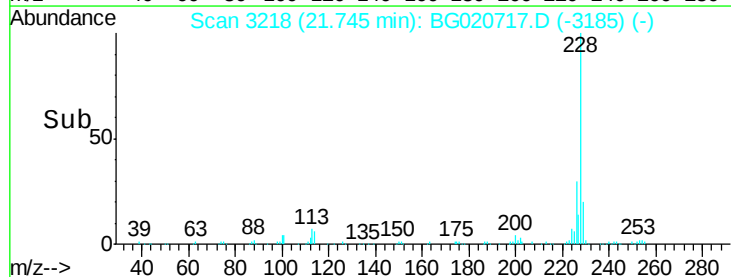
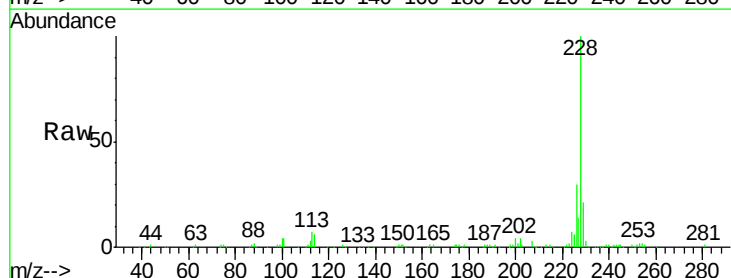
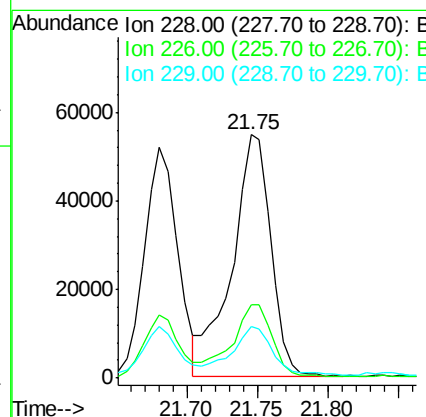
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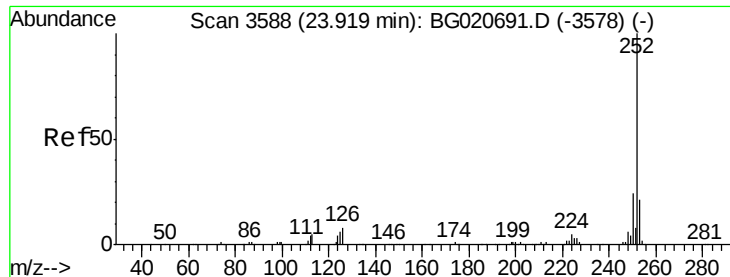
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#85  
Chrysene  
Concen: 10.97 ng/ul  
RT: 21.75 min Scan# 3218  
Delta R.T. -0.01 min  
Lab File: BG020717.D  
Acq: 14 Jan 2016 2:13

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 226     | 30.1  | 24.1       | 36.1       |
| 229     | 21.0  | 16.0       | 24.0       |





#88

Benzo(b)fluoranthene

Concen: 8.94 ng/ul

RT: 23.92 min Scan# 3588

Delta R.T. 0.00 min

Lab File: BG020717.D

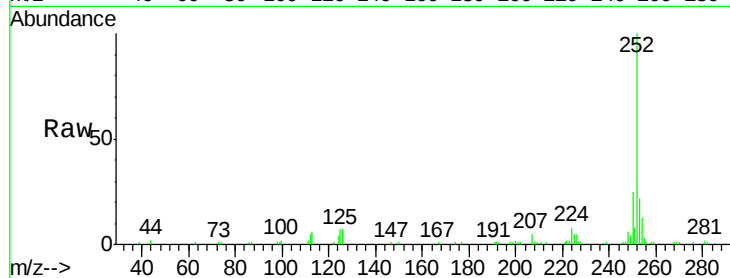
Acq: 14 Jan 2016 2:13

Instrument :

BNA\_G

ClientSampleId :

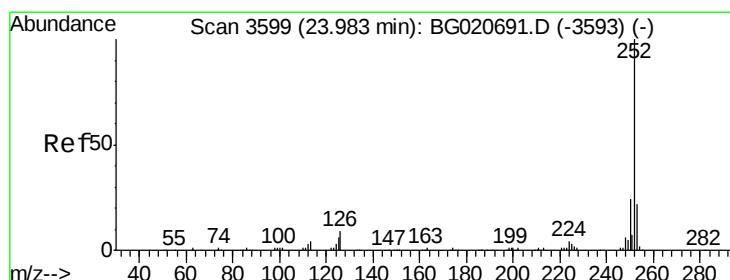
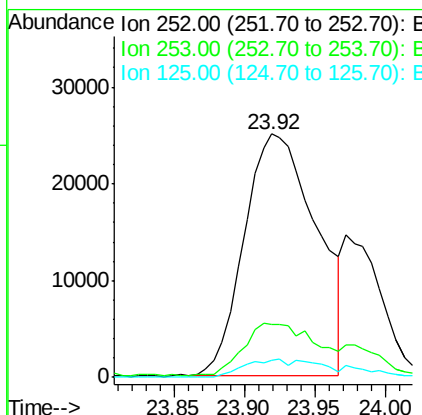
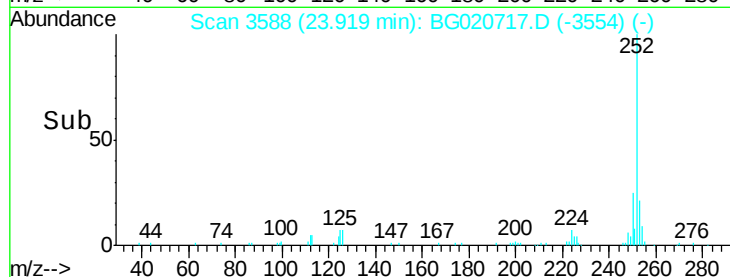
BC931



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.9  | 17.4  | 26.0  |
| 125     | 7.2   | 4.9   | 7.3   |

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#89

Benzo(k)fluoranthene

Concen: 2.81 ng/ul m

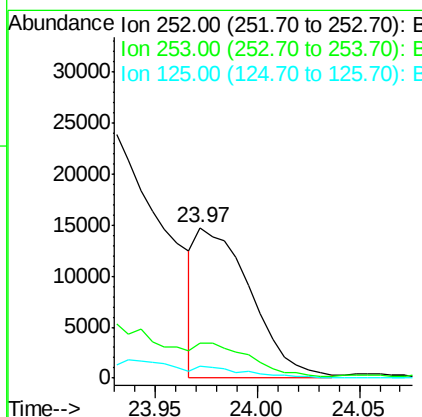
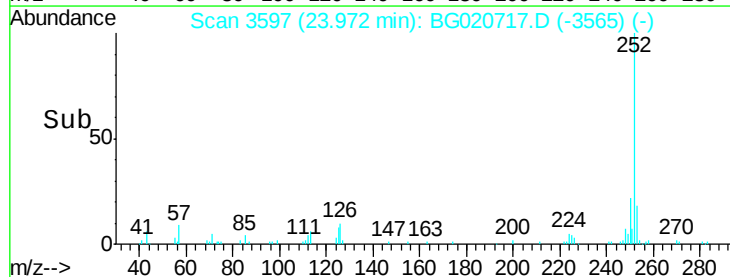
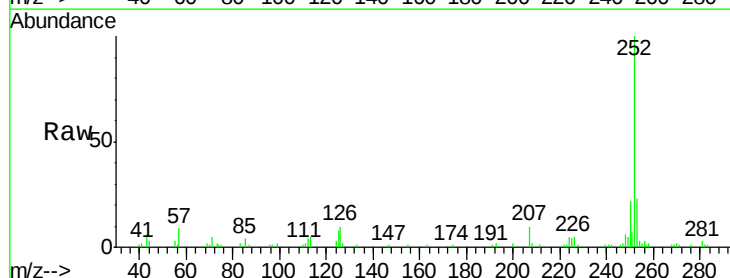
RT: 23.97 min Scan# 3597

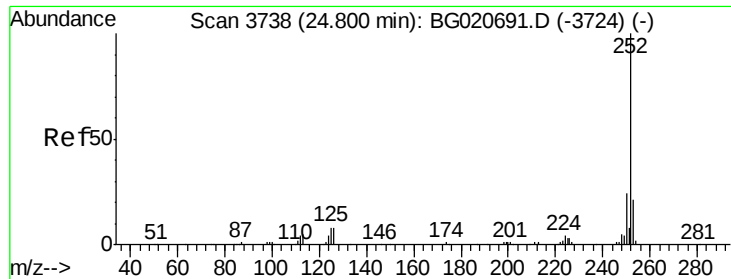
Delta R.T. -0.01 min

Lab File: BG020717.D

Acq: 14 Jan 2016 2:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 17.1  | 25.7  |
| 125     | 8.3   | 5.4   | 8.0#  |





#91

Benzo(a)pyrene

Concen: 7.86 ng/ul

RT: 24.79 min Scan# 3737

Delta R.T. -0.01 min

Lab File: BG020717.D

Acq: 14 Jan 2016 2:13

Instrument :

BNA\_G

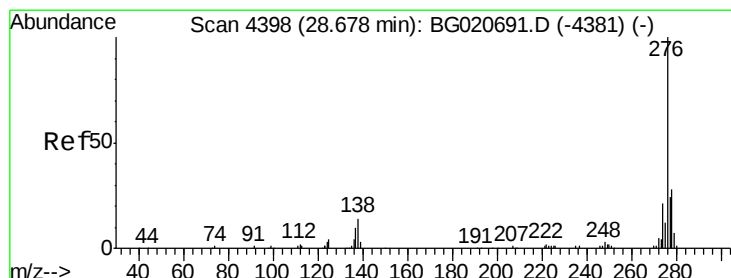
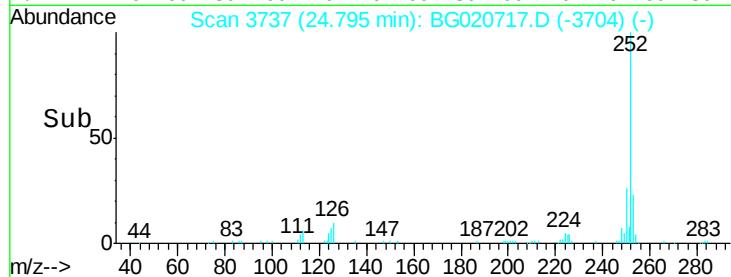
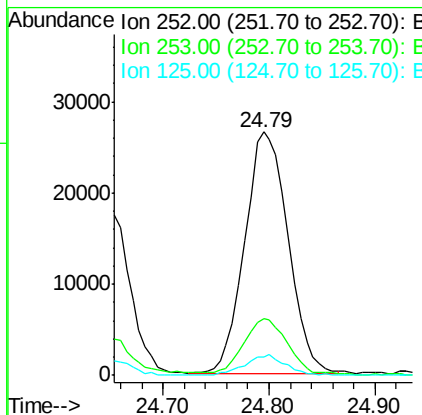
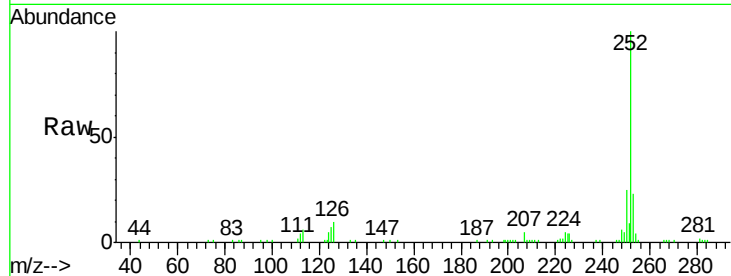
ClientSampleId :

BC931

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 75216 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.3  | 17.2  | 25.8  |
| 125       | 7.3   | 5.8   | 8.6   |

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#92

Indeno(1,2,3-cd)pyrene

Concen: 4.05 ng/ul

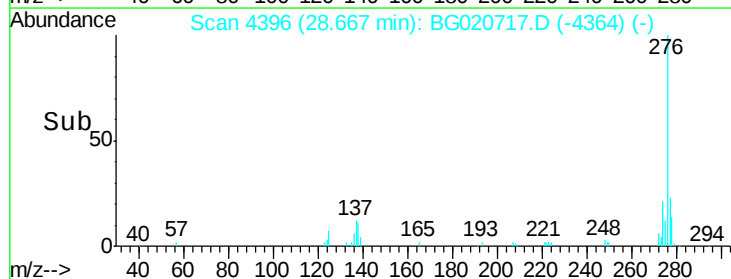
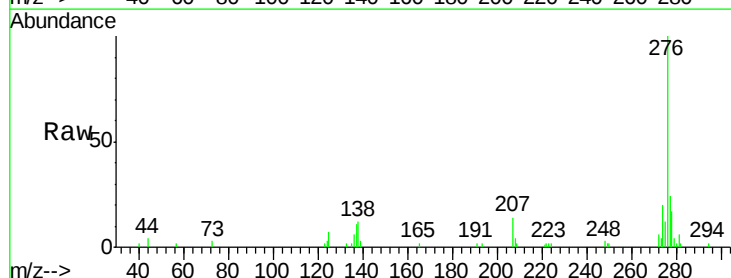
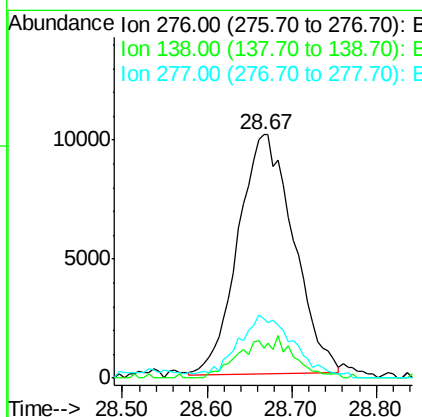
RT: 28.67 min Scan# 4396

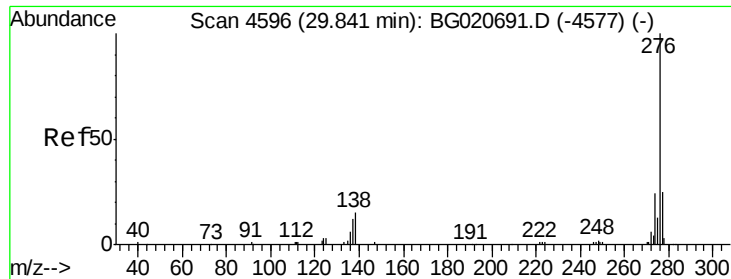
Delta R.T. -0.01 min

Lab File: BG020717.D

Acq: 14 Jan 2016 2:13

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 45683 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 12.3  | 10.9  | 16.3  |
| 277       | 24.3  | 18.9  | 28.3  |





#94

Benzo(g,h,i)perylene

Concen: 5.21 ng/ul m

RT: 29.82 min Scan# 4593

Delta R.T. -0.02 min

Lab File: BG020717.D

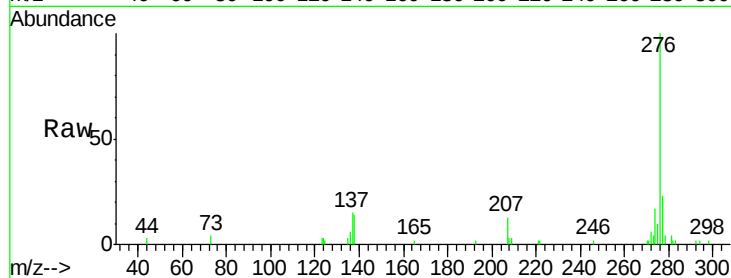
Acq: 14 Jan 2016 2:13

Instrument :

BNA\_G

ClientSampleId :

BC931



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 48523 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 13.9  | 11.2  | 16.8  |
| 277       | 22.5  | 19.0  | 28.6  |

Manual Integrations  
APPROVED

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