

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG011316\  
 Data File : BG020726.D  
 Acq On : 14 Jan 2016 8:04  
 Operator : SJ/IZ  
 Sample : H1096-10  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 BC940

Manual Integrations  
 APPROVED

MMdadoda  
 1/14/2016 5:57:53 PM

Quant Time: Jan 14 11:52:56 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  | 19209    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.86 | 136  | 82934    | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.68 | 164  | 57775    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.43 | 188  | 147669   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.70 | 240  | 176455   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 24.96 | 264  | 166360   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.41  | 96  | 1352   | 3.44  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.21  | 99  | 28486  | 17.31 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.36  | 67  | 18847  | 19.04 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.57  | 132 | 25441  | 19.70 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.75  | 113 | 15760  | 11.35 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.21  | 128 | 13044  | 19.94 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.94  | 143 | 15315  | 20.14 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.48 | 165 | 25870  | 17.87 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.00 | 131 | 28570  | 19.94 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.08 | 166 | 94338  | 18.71 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.38 | 160 | 111401 | 19.68 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.90 | 143 | 8599   | 12.70 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.67 | 176 | 87627  | 19.50 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.80 | 200 | 11915  | 14.84 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.53 | 188 | 140619 | 19.43 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.81 | 212 | 166783 | 19.87 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.73 | 264 | 176814 | 19.94 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |        |      |        | Qvalue |
|----------------------------|-------|-----|--------|------|--------|--------|
| 45) Dimethylphthalate      | 14.12 | 163 | 36308  | 6.70 | ng/ul  | 99     |
| 70) Phenanthrene           | 17.47 | 178 | 22137  | 2.52 | ng/ul  | 97     |
| 77) Fluoranthene           | 19.48 | 202 | 47394  | 4.44 | ng/ul  | 98     |
| 80) Pyrene                 | 19.84 | 202 | 69116  | 6.18 | ng/ul  | 98     |
| 83) Benzo(a)anthracene     | 21.69 | 228 | 29979  | 2.72 | ng/ul  | 95     |
| 85) Chrysene               | 21.75 | 228 | 36571  | 3.51 | ng/ul  | 98     |
| 88) Benzo(b)fluoranthene   | 23.92 | 252 | 31809m | 2.97 | ng/ul  |        |
| 91) Benzo(a)pyrene         | 24.80 | 252 | 28951  | 2.81 | ng/ul  | 97     |
| 92) Indeno(1,2,3-cd)pyrene | 28.67 | 276 | 18547  | 1.52 | ng/ul# | 92     |
| 94) Benzo(g,h,i)perylene   | 29.83 | 276 | 19686m | 1.96 | ng/ul  |        |

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

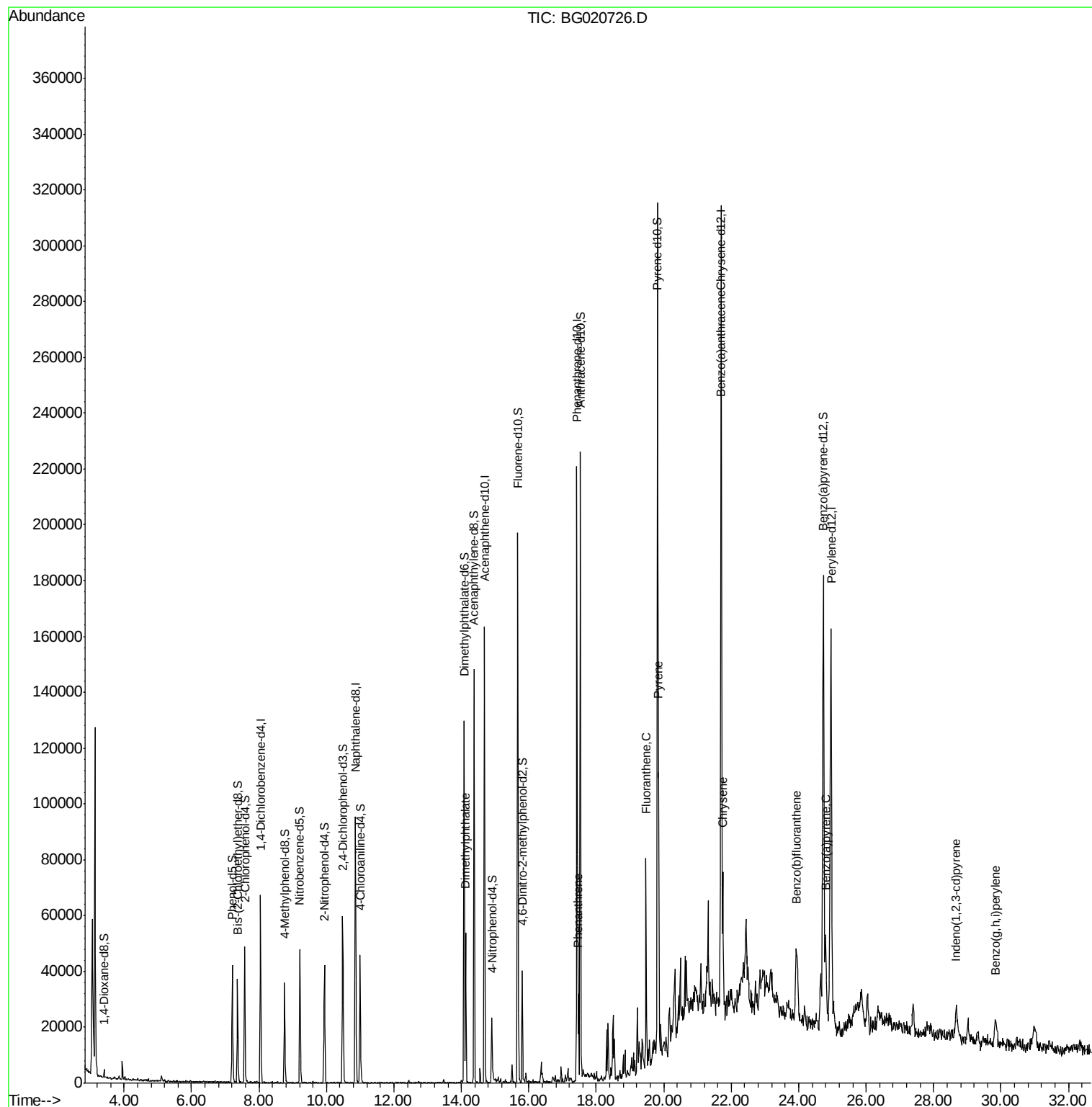
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG011316\  
Data File : BG020726.D  
Acq On : 14 Jan 2016 8:04  
Operator : SJ/IZ  
Sample : H1096-10  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

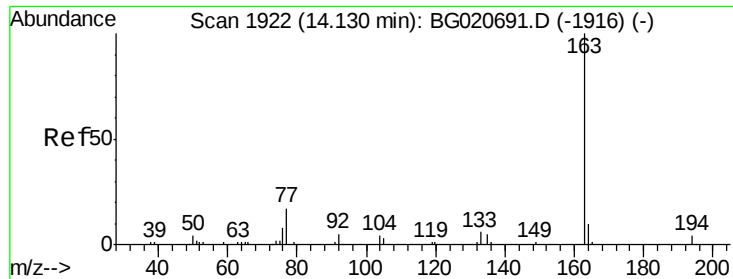
Instrument :  
BNA\_G  
ClientSampleId :  
BC940

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1/14/2016 5:57:53 PM

Quant Time: Jan 14 11:52:56 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





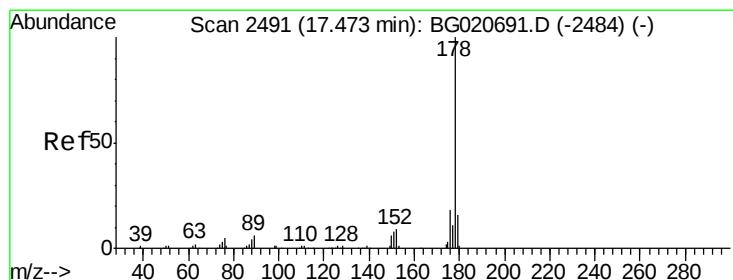
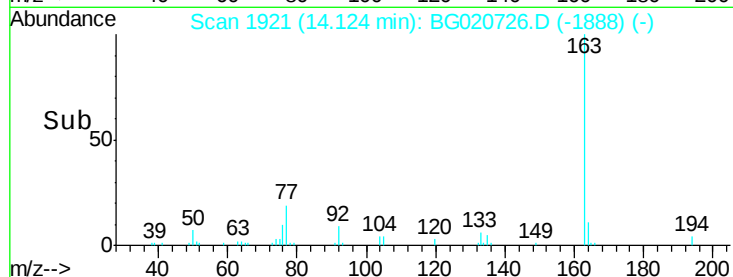
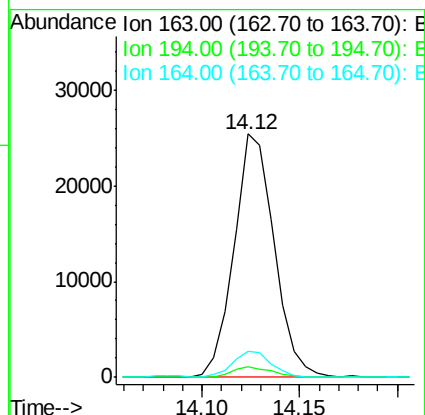
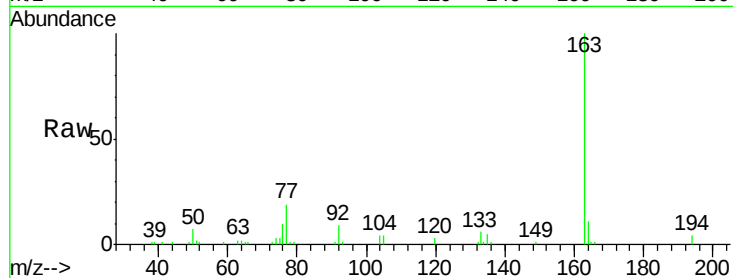
#45  
Dimethylphthalate  
Concen: 6.70 ng/ul  
RT: 14.12 min Scan# 1921  
Delta R.T. -0.01 min  
Lab File: BG020726.D  
Acq: 14 Jan 2016 8:04

Instrument :  
BNA\_G  
ClientSampleId :  
BC940

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 163     | 100   |            |            |
| 194     | 4.3   | 4.0        | 6.0        |
| 164     | 10.6  | 8.4        | 12.6       |

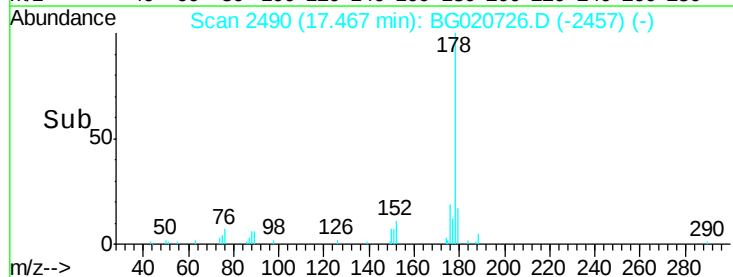
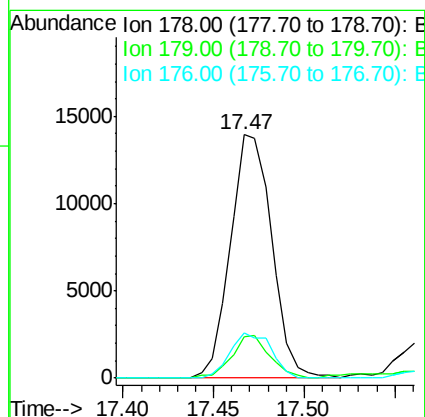
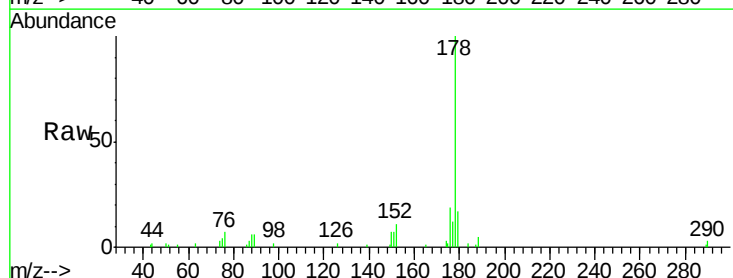
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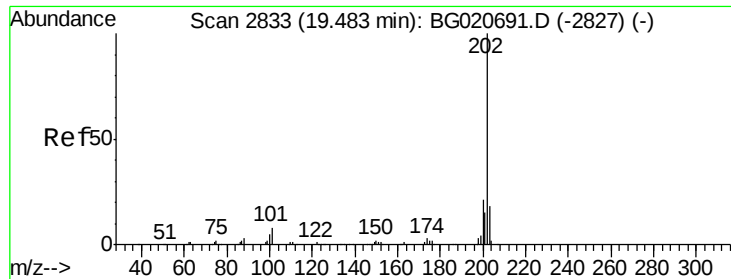
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#70  
Phenanthrene  
Concen: 2.52 ng/ul  
RT: 17.47 min Scan# 2490  
Delta R.T. -0.01 min  
Lab File: BG020726.D  
Acq: 14 Jan 2016 8:04

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 178     | 100   |            |            |
| 179     | 17.2  | 12.3       | 18.5       |
| 176     | 18.7  | 15.4       | 23.0       |





#77

Fluoranthene

Concen: 4.44 ng/ul

RT: 19.48 min Scan# 2832

Delta R.T. -0.01 min

Lab File: BG020726.D

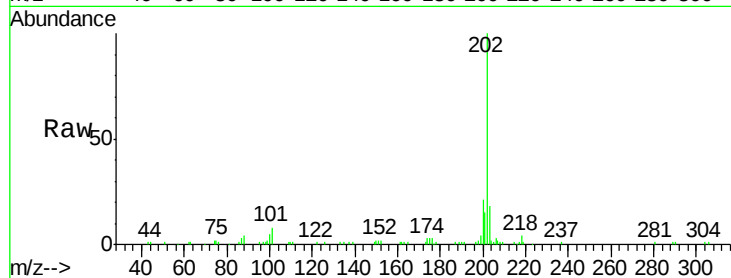
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Instrument :

BNA\_G

ClientSampleId :

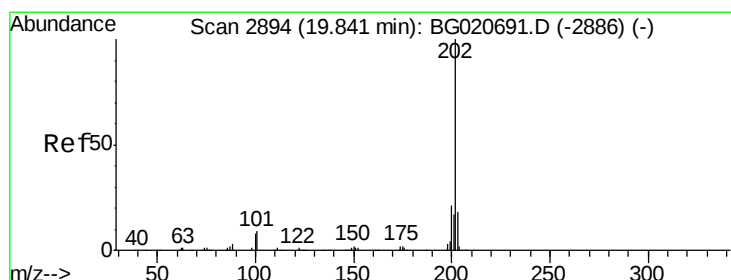
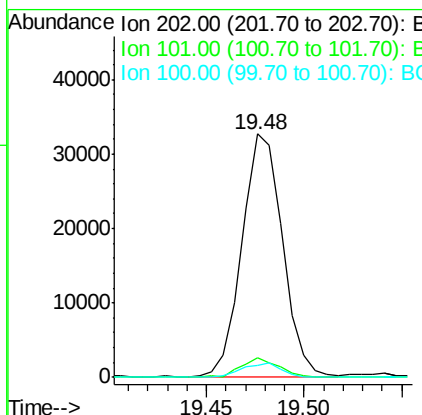
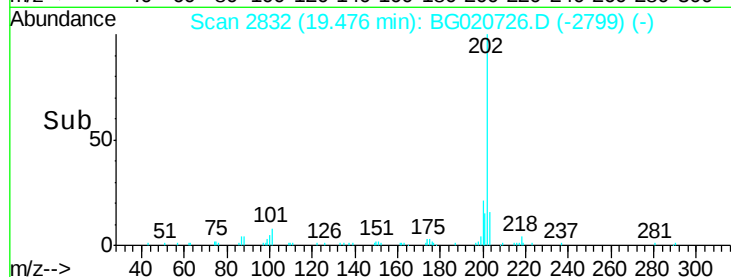
BC940



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 47394 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 8.0   | 6.1   | 9.1   |
| 100       | 5.1   | 4.6   | 7.0   |

Manual Integrations  
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#80

Pyrene

Concen: 6.18 ng/ul

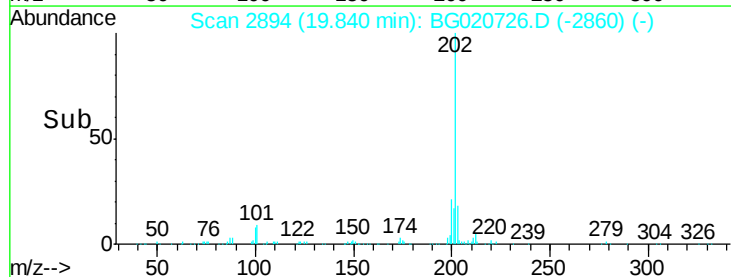
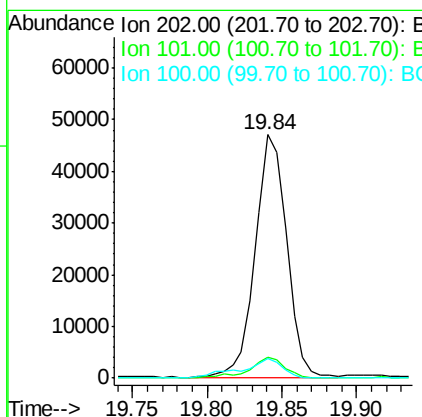
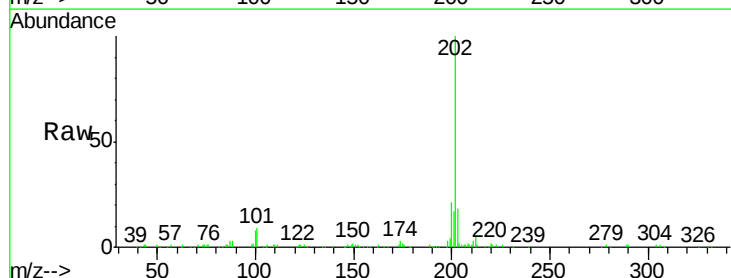
RT: 19.84 min Scan# 2894

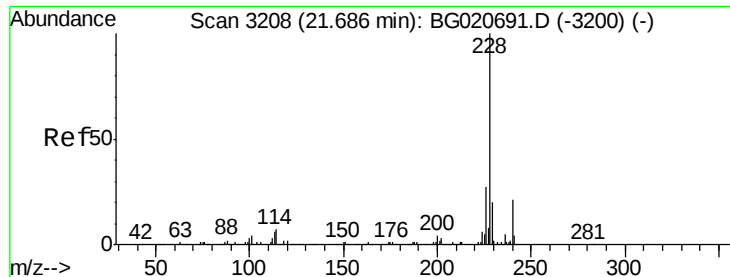
Delta R.T. -0.00 min

Lab File: BG020726.D

Acq: 14 Jan 2016 8:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 69116 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 8.8   | 6.9   | 10.3  |
| 100       | 8.1   | 5.6   | 8.4   |





#83

Benzo(a)anthracene

Concen: 2.72 ng/ul

RT: 21.69 min Scan# 3208

Delta R.T. -0.00 min

Lab File: BG020726.D

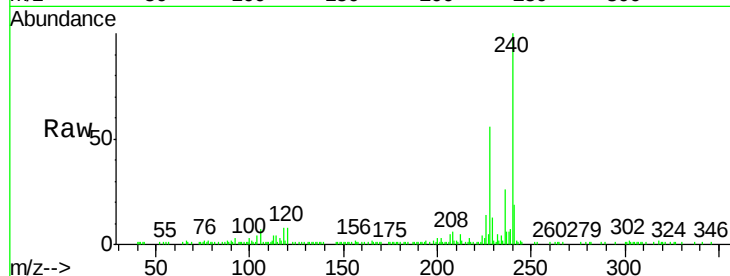
Acq: 14 Jan 2016 8:04

Instrument :

BNA\_G

ClientSampleId :

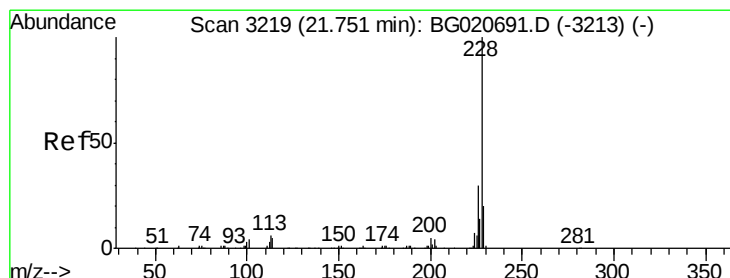
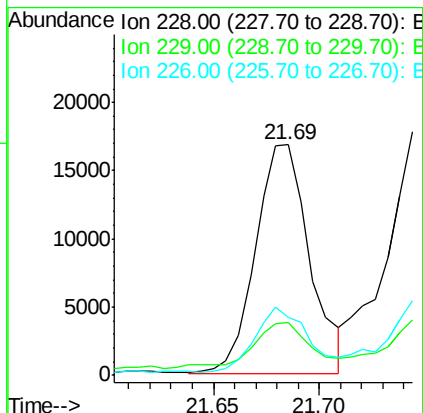
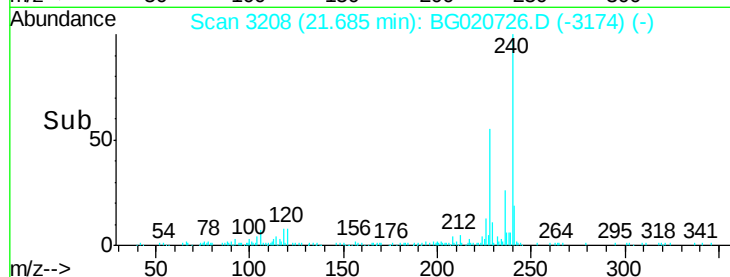
BC940



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 22.7  | 16.0  | 24.0  |
| 226     | 25.1  | 21.8  | 32.8  |

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#85

Chrysene

Concen: 3.51 ng/ul

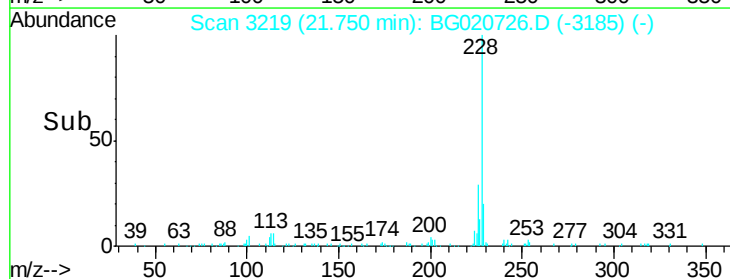
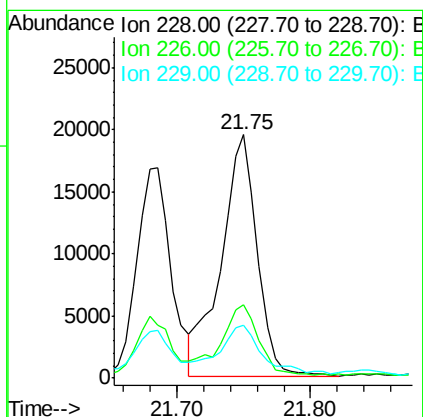
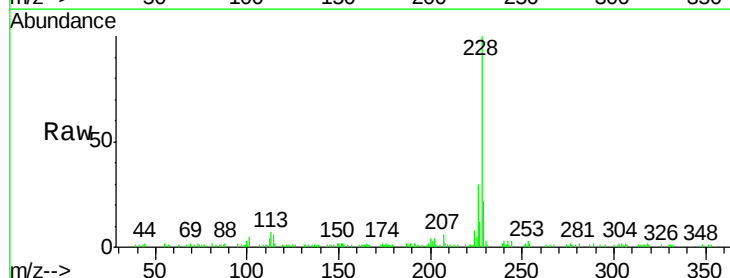
RT: 21.75 min Scan# 3219

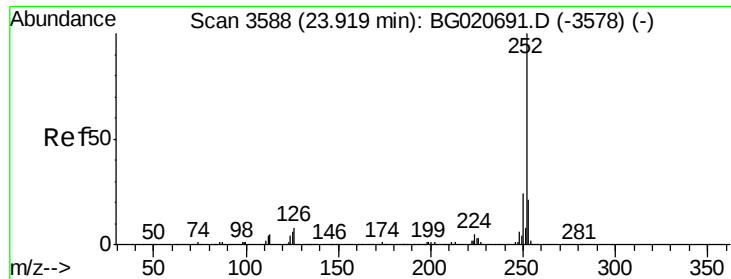
Delta R.T. -0.00 min

Lab File: BG020726.D

Acq: 14 Jan 2016 8:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.0  | 24.1  | 36.1  |
| 229     | 21.6  | 16.0  | 24.0  |





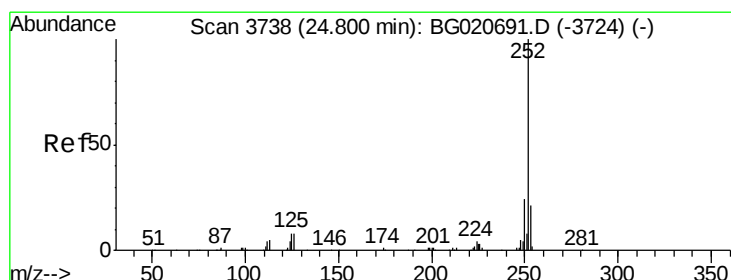
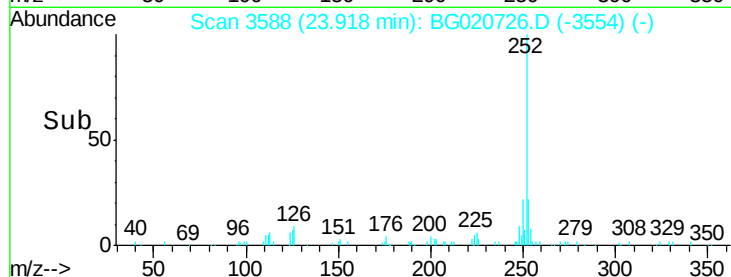
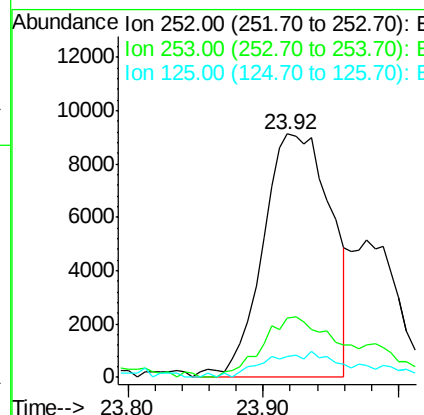
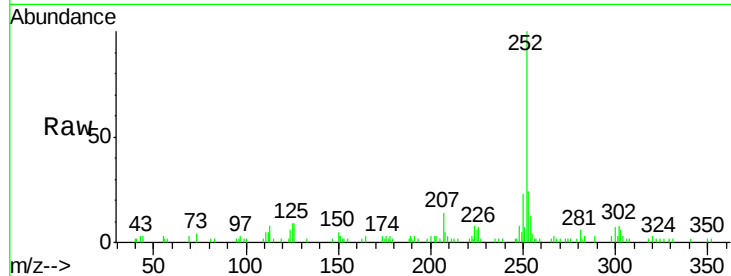
#88  
Benzo(b)fluoranthene  
Concen: 2.97 ng/ul m  
RT: 23.92 min Scan# 3588  
Delta R.T. -0.00 min  
Lab File: BG020726.D  
Acq: 14 Jan 2016 8:04

Instrument :  
BNA\_G  
ClientSampleId :  
BC940

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.4  | 17.4  | 26.0  |
| 125     | 8.6   | 4.9   | 7.3#  |

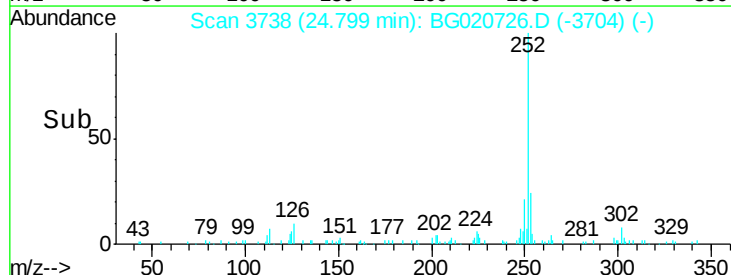
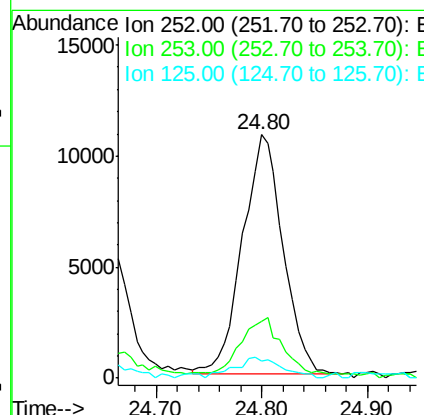
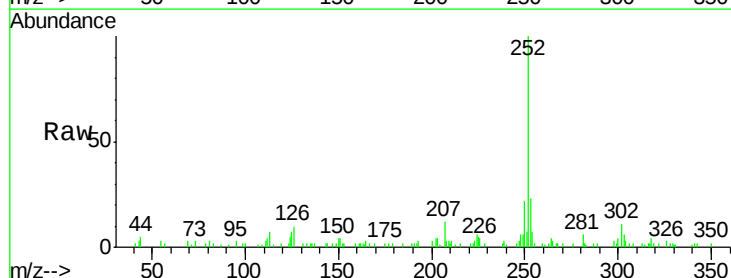
Manual Integrations  
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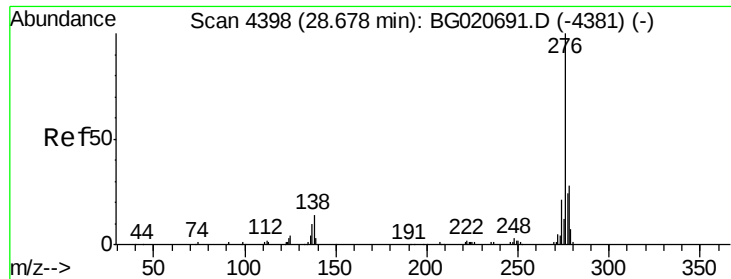
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1/14/2016 5:57:53 PM



#91  
Benzo(a)pyrene  
Concen: 2.81 ng/ul  
RT: 24.80 min Scan# 3738  
Delta R.T. -0.00 min  
Lab File: BG020726.D  
Acq: 14 Jan 2016 8:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 17.2  | 25.8  |
| 125     | 7.1   | 5.8   | 8.6   |





#92

Indeno(1,2,3-cd)pyrene

Concen: 1.52 ng/ul

RT: 28.67 min Scan# 4396

Delta R.T. -0.01 min

Lab File: BG020726.D

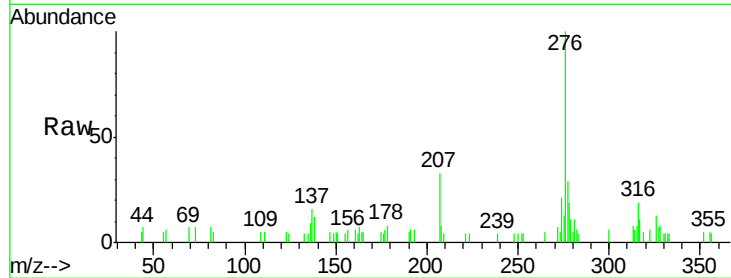
Acq: 14 Jan 2016 8:04

Instrument :

BNA\_G

ClientSampled :

BC940



Tgt Ion: 276 Resp: 18547

Ion Ratio Lower Upper

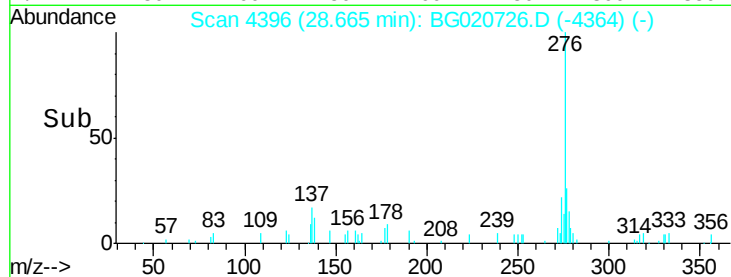
276 100

138 11.7 10.9 16.3

277 28.5 18.9 28.3#

Manual Integrations  
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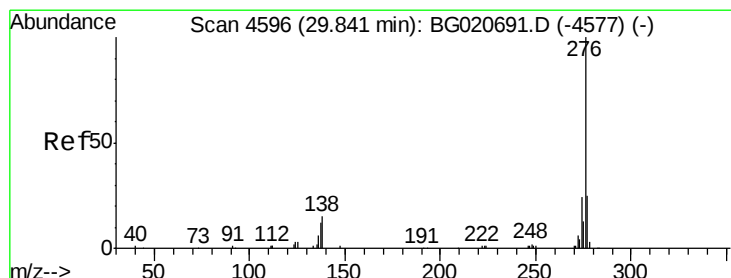
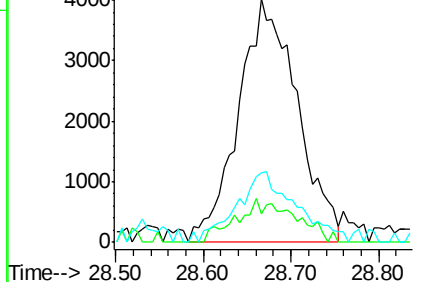
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1/14/2016 5:57:53 PM



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#94

Benzo(g,h,i)perylene

Concen: 1.96 ng/ul m

RT: 29.83 min Scan# 4594

Delta R.T. -0.01 min

Lab File: BG020726.D

Acq: 14 Jan 2016 8:04

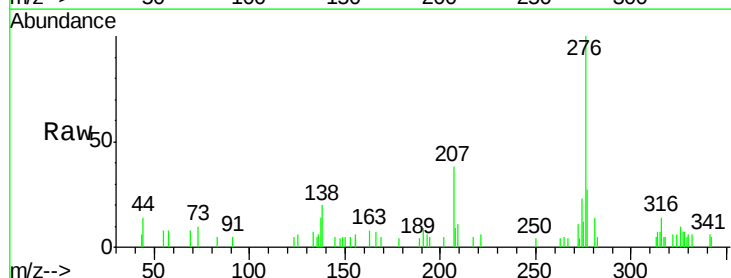
Tgt Ion: 276 Resp: 19686

Ion Ratio Lower Upper

276 100

138 19.9 11.2 16.8#

277 26.7 19.0 28.6



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

