

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG032416\  
 Data File : BG021491.D  
 Acq On : 24 Mar 2016 19:04  
 Operator : UM/SJ  
 Sample : H1909-09  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 A4T45

Quant Time: Mar 25 01:22:51 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG031616.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Mar 25 01:20:42 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.06  | 152  | 9675     | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.87 | 136  | 47585    | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.68 | 164  | 32333    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.41 | 188  | 80351    | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.67 | 240  | 87898    | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 24.88 | 264  | 85267    | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |       |       |       |      |
|--------------------------------|-------|-----|-------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.47  | 96  | 597   | 2.77  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.34  | 99  | 14861 | 16.25 | ng/ul | 0.01 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.39  | 67  | 10099 | 18.64 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.64  | 132 | 11844 | 17.05 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.85  | 113 | 12468 | 15.91 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.23  | 128 | 6398  | 17.92 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.95  | 143 | 7009  | 17.18 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.57 | 165 | 12768 | 17.50 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.01 | 131 | 16624 | 17.43 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.08 | 166 | 49582 | 18.42 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.37 | 160 | 59435 | 17.91 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 15.09 | 143 | 4676  | 10.87 | ng/ul | 0.02 |
| 58) Fluorene-d10               | 15.66 | 176 | 44742 | 18.43 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.79 | 200 | 6711  | 12.64 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.51 | 188 | 71083 | 18.05 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.79 | 212 | 80156 | 19.56 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.65 | 264 | 81334 | 20.67 | ng/ul | 0.00 |

## Target Compounds

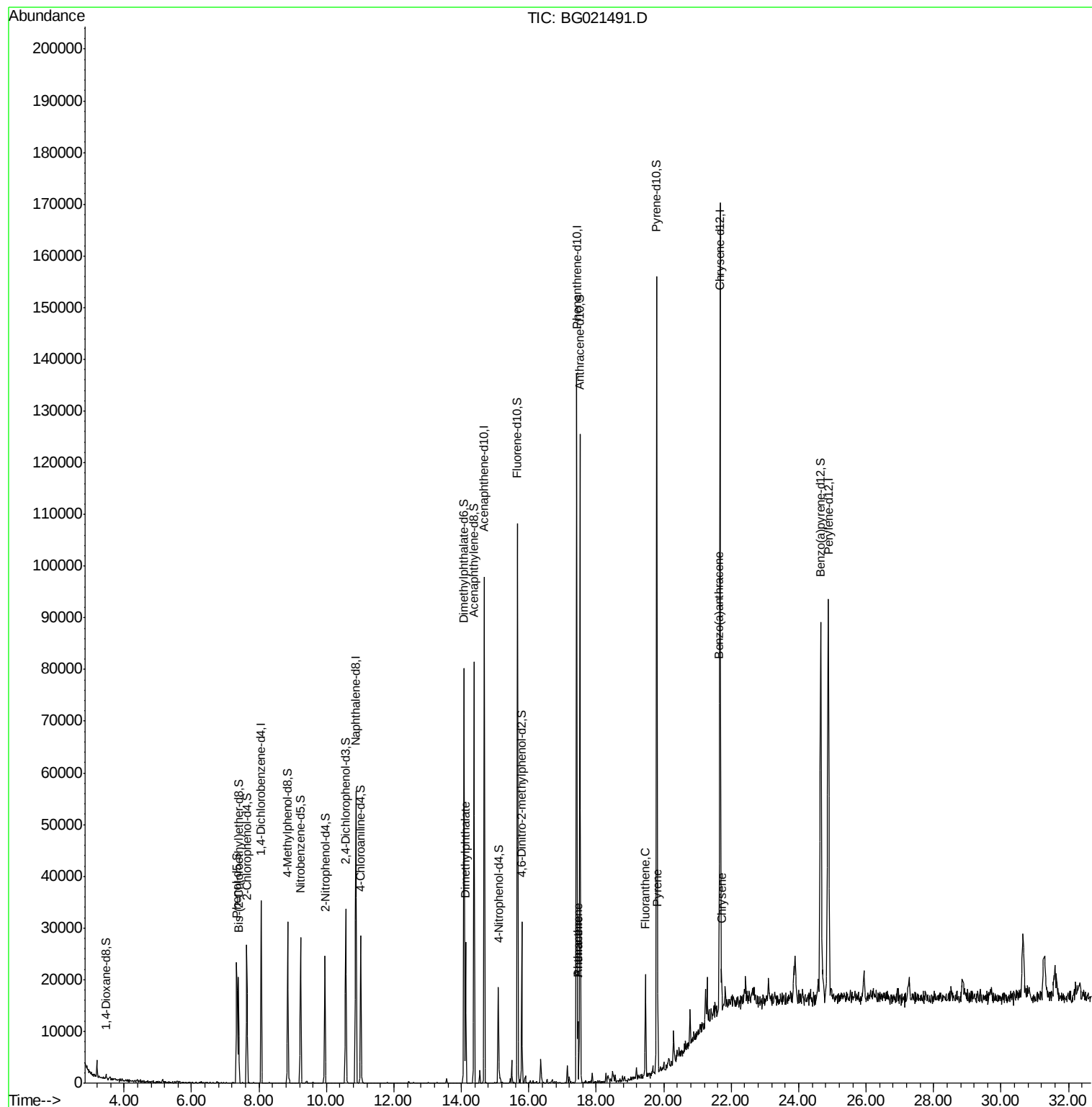
|                        |       |     |       |      |        | Qvalue |
|------------------------|-------|-----|-------|------|--------|--------|
| 45) Dimethylphthalate  | 14.12 | 163 | 16970 | 6.07 | ng/ul  | 100    |
| 70) Phenanthrene       | 17.46 | 178 | 7657  | 1.68 | ng/ul  | 99     |
| 72) Anthracene         | 17.46 | 178 | 7657  | 1.65 | ng/ul  | 97     |
| 77) Fluoranthene       | 19.45 | 202 | 13288 | 2.42 | ng/ul# | 94     |
| 80) Pyrene             | 19.82 | 202 | 11621 | 2.22 | ng/ul# | 91     |
| 83) Benzo(a)anthracene | 21.64 | 228 | 6943  | 1.31 | ng/ul  | 95     |
| 85) Chrysene           | 21.72 | 228 | 6172  | 1.23 | ng/ul# | 91     |

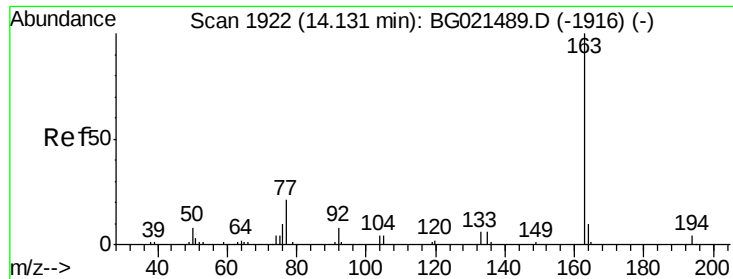
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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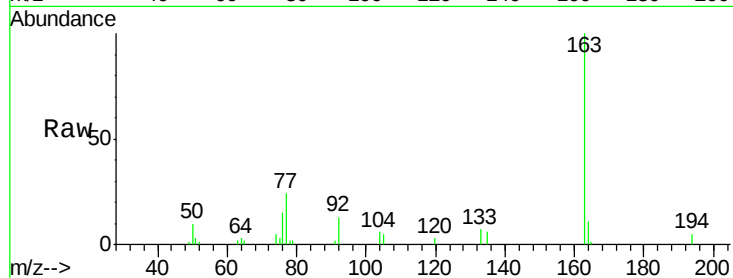




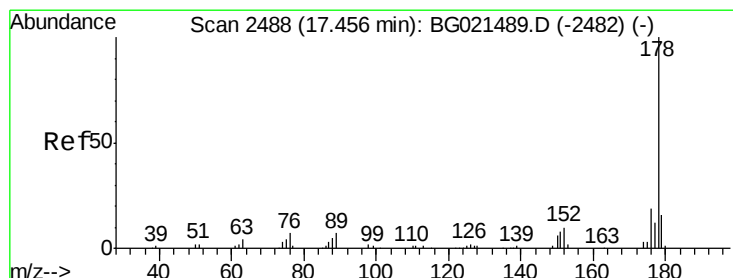
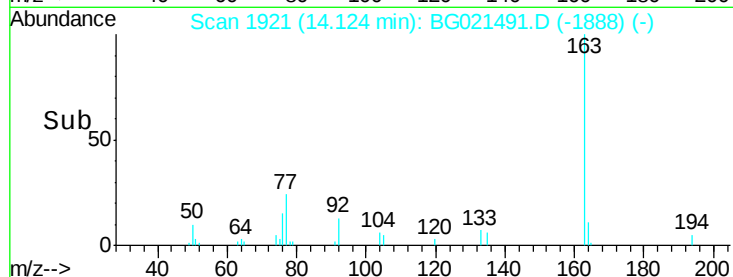
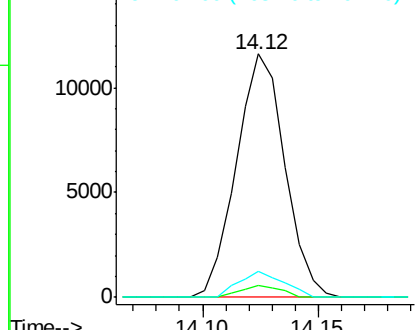
#45  
Dimethylphthalate  
Concen: 6.07 ng/ul  
RT: 14.12 min Scan# 1921  
Delta R.T. -0.01 min  
Lab File: BG021491.D  
Acq: 24 Mar 2016 19:04

Instrument :  
BNA\_G  
ClientSampleId :  
A4T45

Tgt Ion:163 Resp: 16970  
Ion Ratio Lower Upper  
163 100  
194 4.9 3.9 5.9  
164 10.7 8.7 13.1

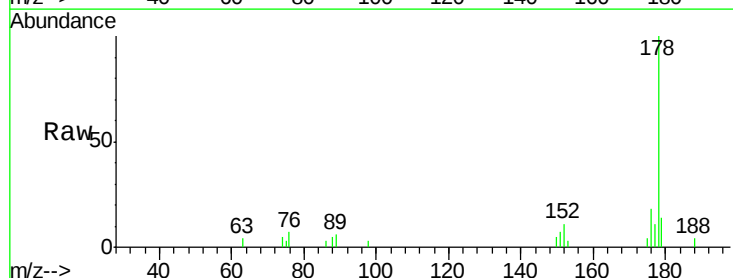


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

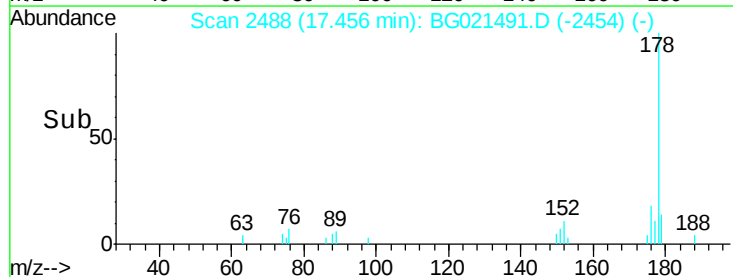
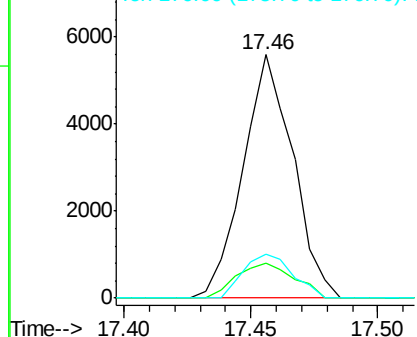


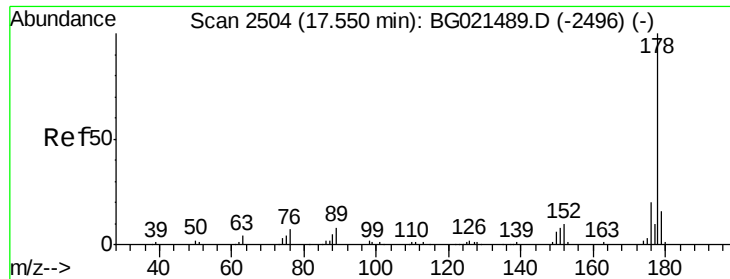
#70  
Phenanthrene  
Concen: 1.68 ng/ul  
RT: 17.46 min Scan# 2488  
Delta R.T. -0.00 min  
Lab File: BG021491.D  
Acq: 24 Mar 2016 19:04

Tgt Ion:178 Resp: 7657  
Ion Ratio Lower Upper  
178 100  
179 14.4 11.8 17.8  
176 18.1 14.8 22.2



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: 1.65 ng/ul

RT: 17.46 min Scan# 2488

Delta R.T. -0.09 min

Lab File: BG021491.D

Acq: 24 Mar 2016 19:04

Instrument :

BNA\_G

ClientSampleId :

A4T45

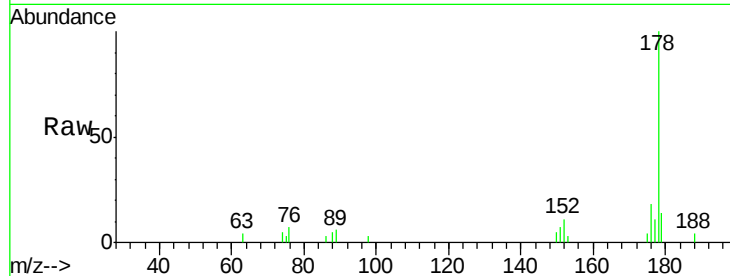
Tgt Ion:178 Resp: 7657

Ion Ratio Lower Upper

178 100

179 14.4 12.9 19.3

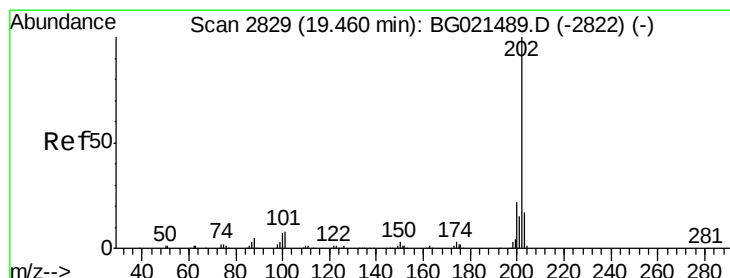
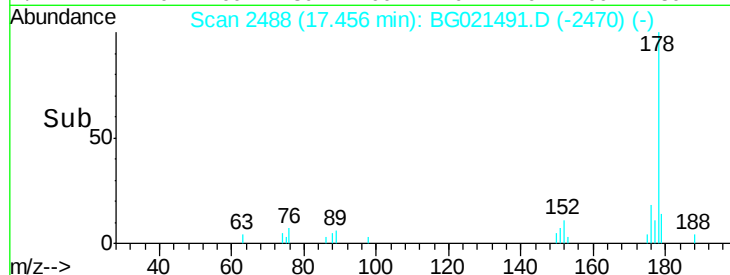
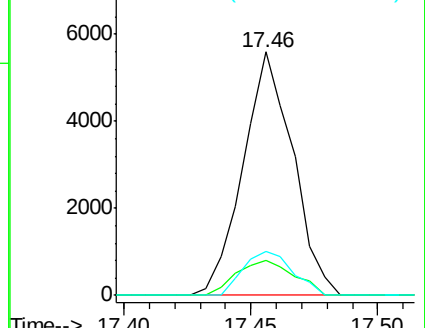
176 18.1 15.6 23.4



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: 2.42 ng/ul

RT: 19.45 min Scan# 2828

Delta R.T. -0.01 min

Lab File: BG021491.D

Acq: 24 Mar 2016 19:04

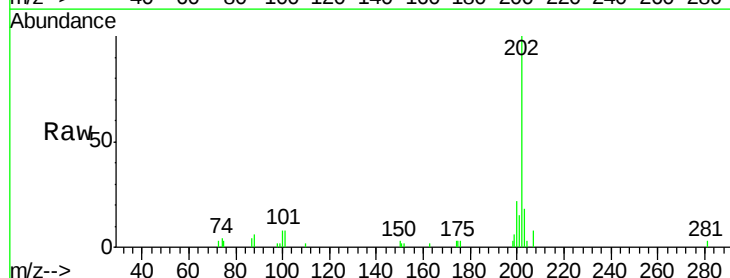
Tgt Ion:202 Resp: 13288

Ion Ratio Lower Upper

202 100

101 7.9 8.9 13.3#

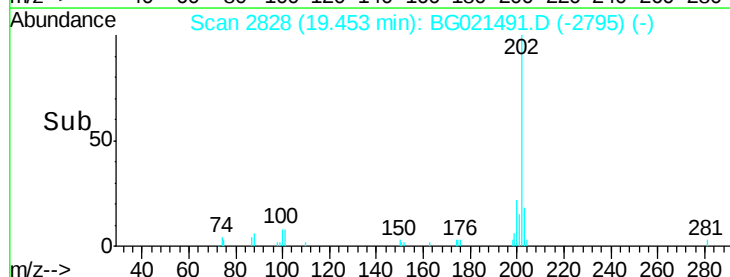
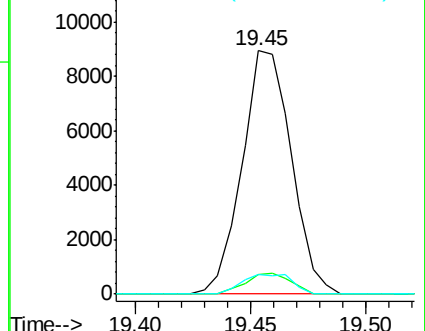
100 7.9 7.0 10.4

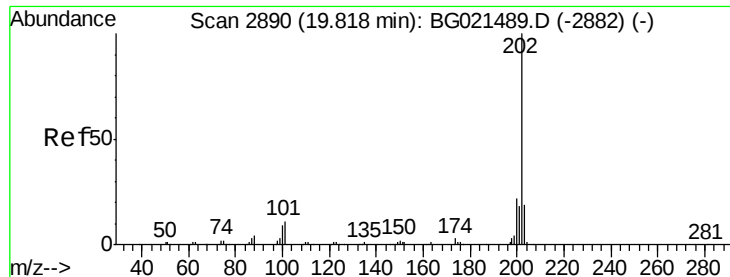


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

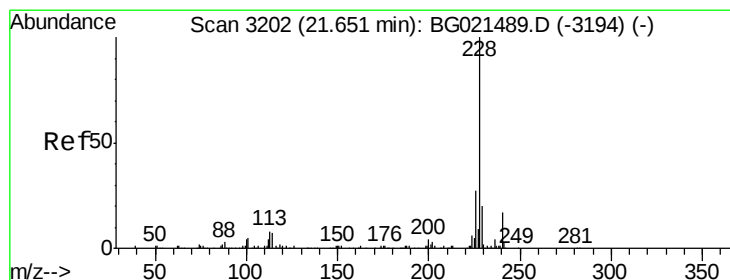
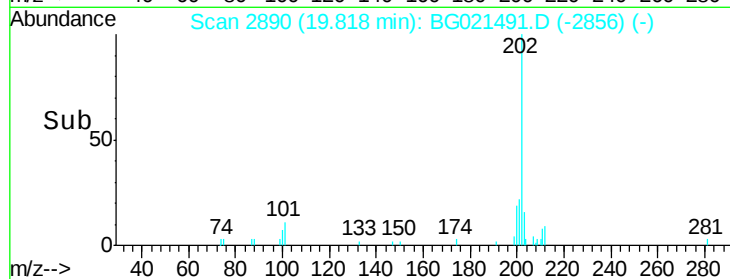
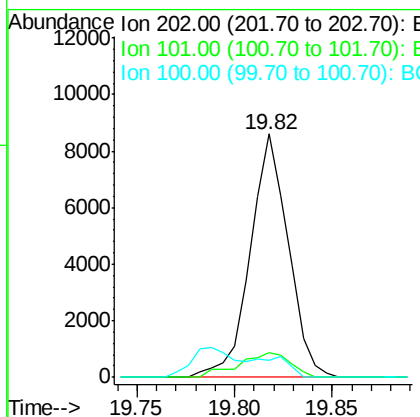
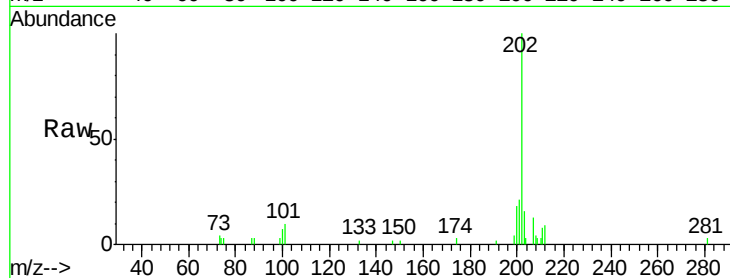




#80  
 Pyrene  
 Concen: 2.22 ng/ul  
 RT: 19.82 min Scan# 2890  
 Delta R.T. -0.00 min  
 Lab File: BG021491.D  
 Acq: 24 Mar 2016 19:04

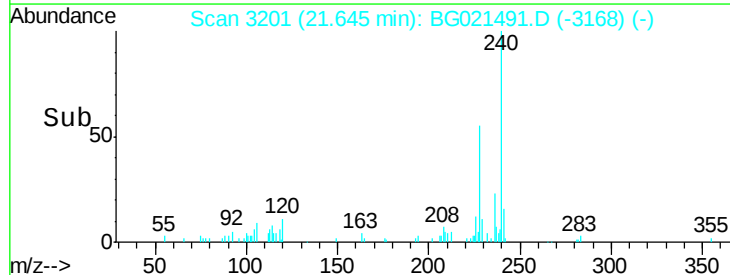
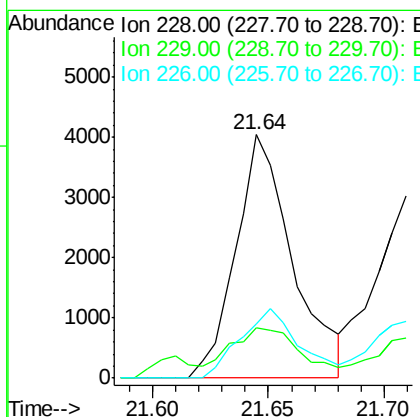
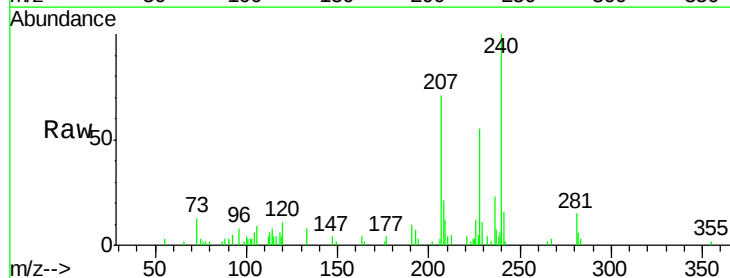
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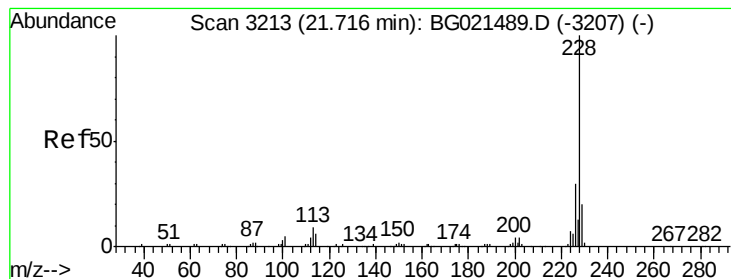
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.3  | 9.8   | 14.8  |
| 100     | 6.8   | 9.3   | 13.9# |



#83  
 Benzo(a)anthracene  
 Concen: 1.31 ng/ul  
 RT: 21.64 min Scan# 3201  
 Delta R.T. -0.01 min  
 Lab File: BG021491.D  
 Acq: 24 Mar 2016 19:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.5  | 16.6  | 25.0  |
| 226     | 22.3  | 21.0  | 31.4  |





#85

Chrysene

Concen: 1.23 ng/ul

RT: 21.72 min Scan# 3213

Delta R.T. -0.00 min

Lab File: BG021491.D

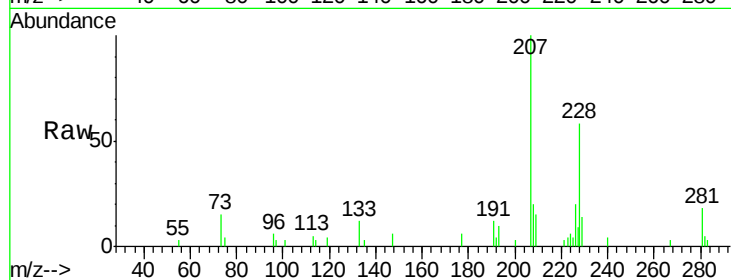
Acq: 24 Mar 2016 19:04

Instrument :

BNA\_G

ClientSampleId :

A4T45



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 6172  |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 33.7  | 23.4  | 35.2  |
| 229      | 24.8  | 16.2  | 24.2# |

