

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG030816\  
 Data File : BG021383.D  
 Acq On : 9 Mar 2016 1:46  
 Operator : UM/SJ  
 Sample : H1655-16  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MS-SS-E350

Manual Integrations  
 APPROVED

UMANGI  
 3/9/2016 9:28:18 AM

Quant Time: Mar 09 03:22:36 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG030316.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Mar 09 02:03:52 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.12  | 152  | 10947    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.93 | 136  | 54078    | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.73 | 164  | 32048    | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.47 | 188  | 72299    | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.73 | 240  | 74737    | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 24.99 | 264  | 68904    | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.53  | 96  | 1253   | 4.77  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.28  | 99  | 30145  | 26.25 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.45  | 67  | 21042  | 27.74 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.65  | 132 | 21807  | 27.23 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.82  | 113 | 24383  | 26.92 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.29  | 128 | 11142  | 25.75 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.01 | 143 | 11838  | 25.78 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.55 | 165 | 21137  | 25.68 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.07 | 131 | 27313  | 26.57 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.13 | 166 | 69910  | 26.38 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.43 | 160 | 90513  | 27.07 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.91 | 143 | 10234  | 19.61 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.72 | 176 | 62858  | 26.77 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.83 | 200 | 9668   | 19.05 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.57 | 188 | 96952  | 27.20 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.84 | 212 | 100560 | 26.92 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.76 | 264 | 83355  | 22.73 | ng/ul | 0.00 |

## Target Compounds

|                          |       |     |        |      |        | Qvalue |
|--------------------------|-------|-----|--------|------|--------|--------|
| 45) Dimethylphthalate    | 14.18 | 163 | 13222  | 4.64 | ng/ul# | 94     |
| 70) Phenanthrene         | 17.51 | 178 | 11281  | 2.63 | ng/ul# | 92     |
| 77) Fluoranthene         | 19.51 | 202 | 18454  | 3.66 | ng/ul  | 97     |
| 80) Pyrene               | 19.87 | 202 | 14619  | 2.95 | ng/ul  | 95     |
| 83) Benzo(a)anthracene   | 21.71 | 228 | 8924   | 1.86 | ng/ul  | 97     |
| 85) Chrysene             | 21.78 | 228 | 8813   | 1.97 | ng/ul  | 97     |
| 88) Benzo(b)fluoranthene | 23.96 | 252 | 10391m | 2.22 | ng/ul  |        |
| 91) Benzo(a)pyrene       | 24.84 | 252 | 5652   | 1.25 | ng/ul  | 97     |

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

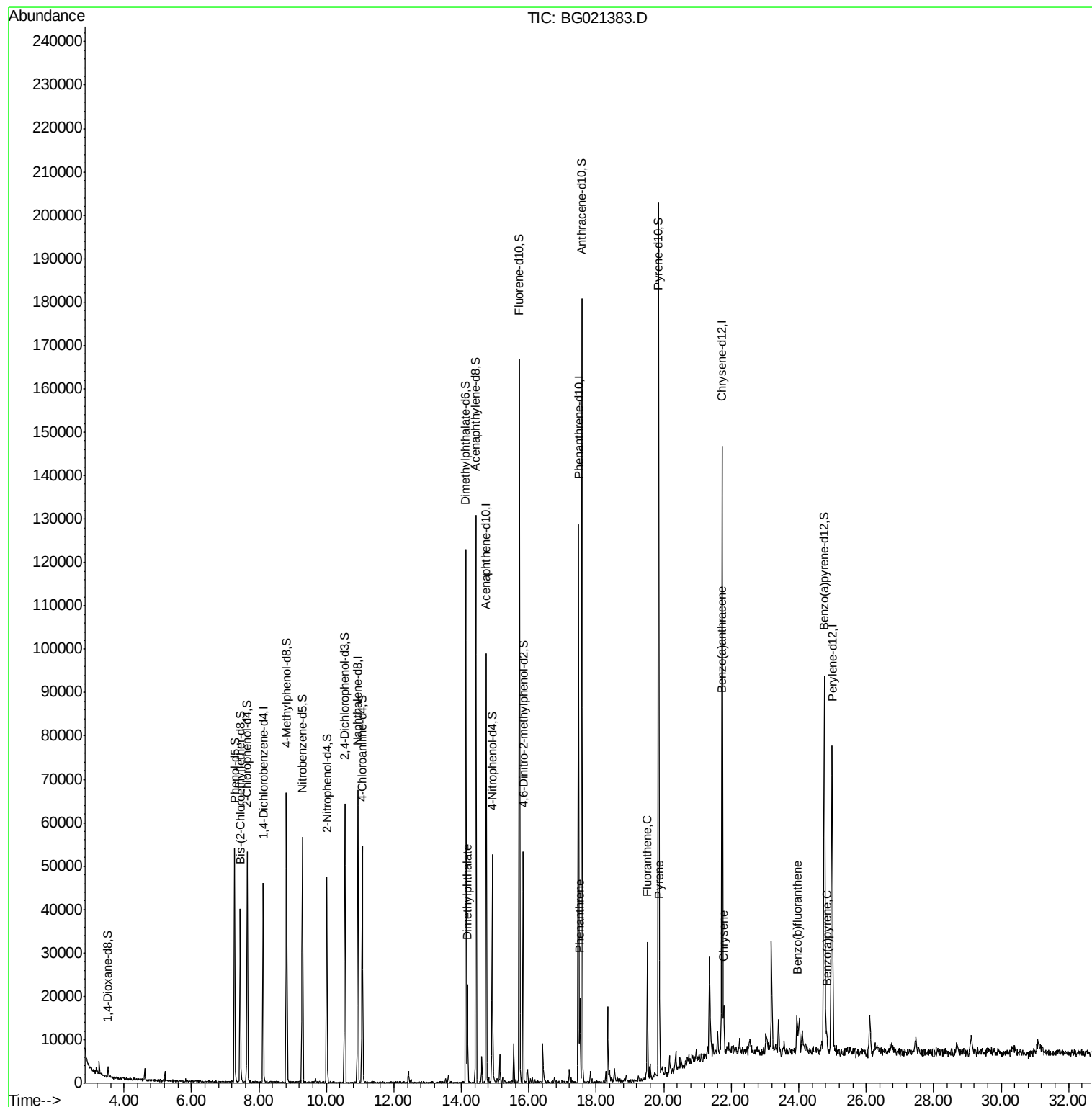
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG030816\  
Data File : BG021383.D  
Acq On : 9 Mar 2016 1:46  
Operator : UM/SJ  
Sample : H1655-16  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

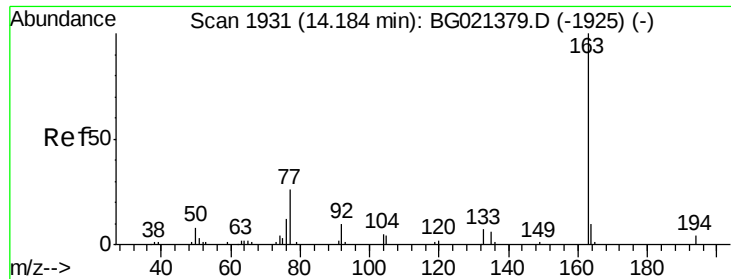
Instrument :  
BNA\_G  
ClientSampleId :  
MS-SS-E350

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Quant Time: Mar 09 03:22:36 2016  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG030316.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Mar 09 02:03:52 2016  
Response via : Initial Calibration





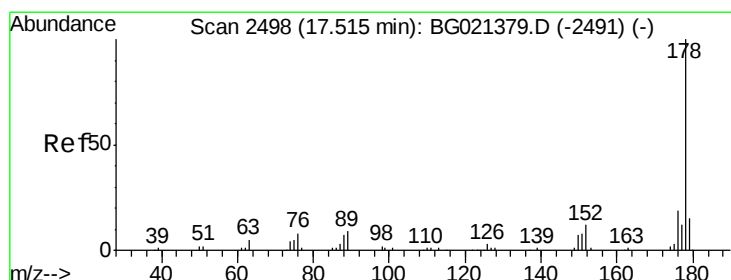
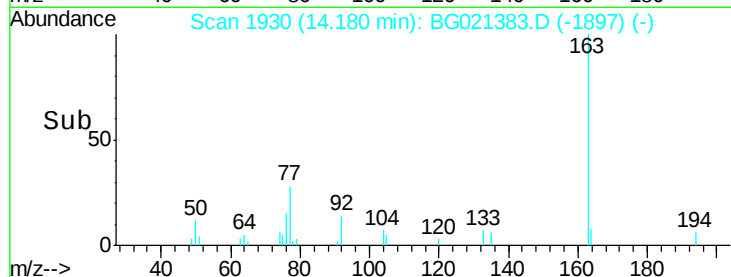
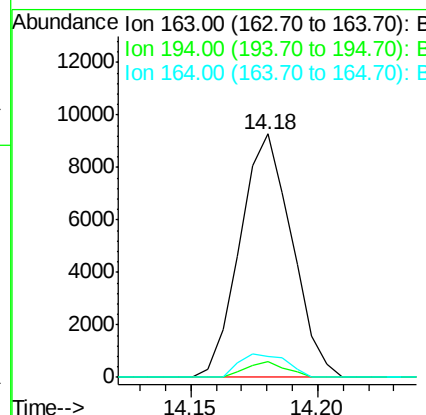
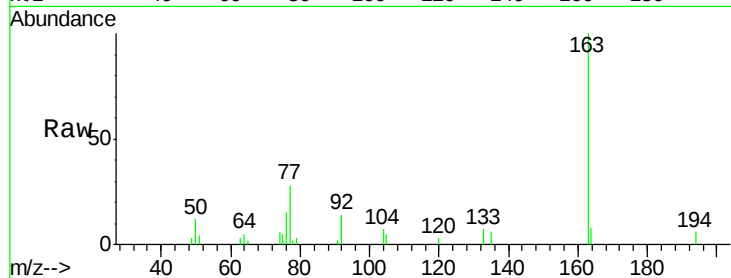
#45  
Dimethylphthalate  
Concen: 4.64 ng/ul  
RT: 14.18 min Scan# 1930  
Delta R.T. -0.00 min  
Lab File: BG021383.D  
Acq: 9 Mar 2016 1:46

Instrument :  
BNA\_G  
ClientSampleId :  
MS-SS-E350

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 163     | 100   |            |            |
| 194     | 6.3   | 2.8        | 4.2#       |
| 164     | 8.5   | 8.2        | 12.2       |

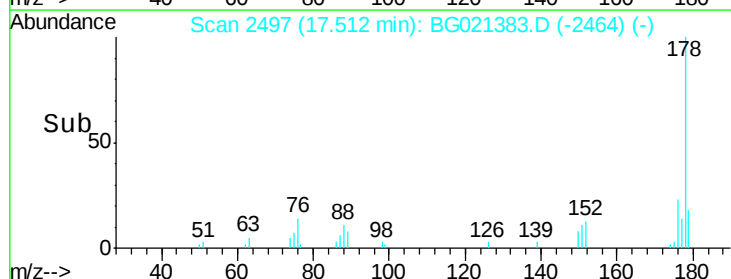
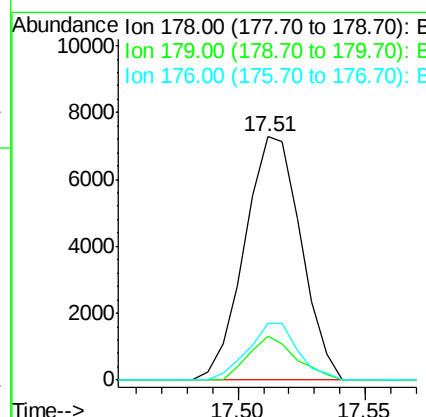
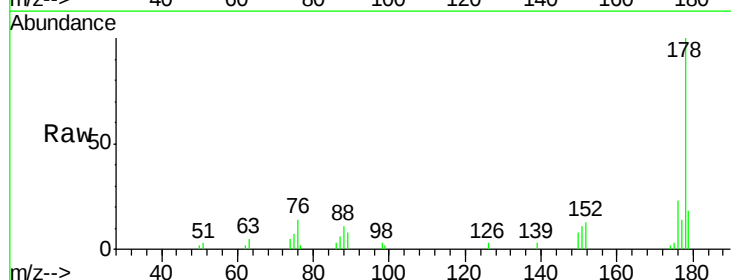
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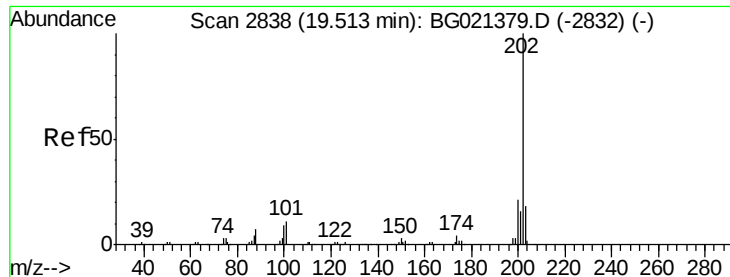
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#70  
Phenanthrene  
Concen: 2.63 ng/ul  
RT: 17.51 min Scan# 2497  
Delta R.T. -0.00 min  
Lab File: BG021383.D  
Acq: 9 Mar 2016 1:46

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 178     | 100   |            |            |
| 179     | 17.8  | 12.3       | 18.5       |
| 176     | 23.3  | 15.1       | 22.7#      |





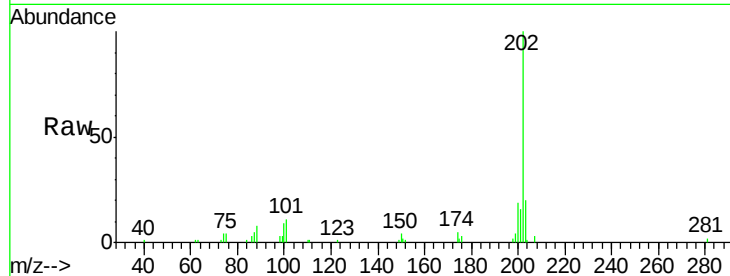
#77  
Fluoranthene  
Concen: 3.66 ng/ul  
RT: 19.51 min Scan# 2837  
Delta R.T. -0.00 min  
Lab File: BG021383.D  
Acq: 9 Mar 2016 1:46

Instrument :  
BNA\_G  
ClientSampleId :  
MS-SS-E350

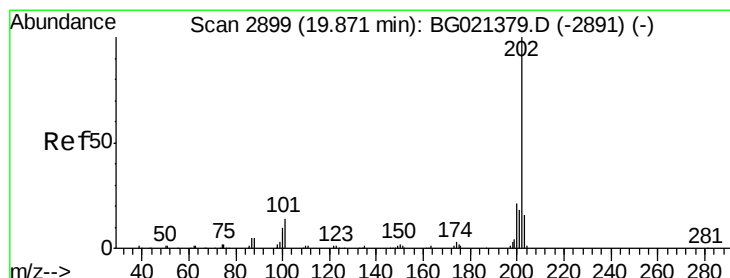
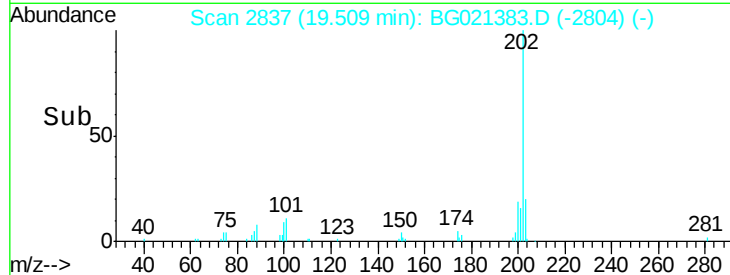
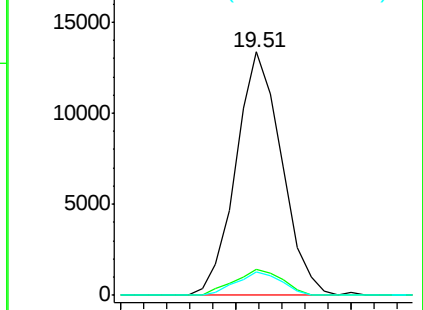
| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 18454 |       |       |
| 101     | 10.6  | 9.9   | 14.9  |       |
| 100     | 9.5   | 7.4   | 11.0  |       |

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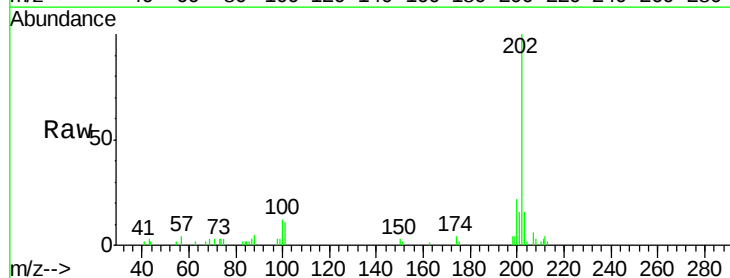


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B

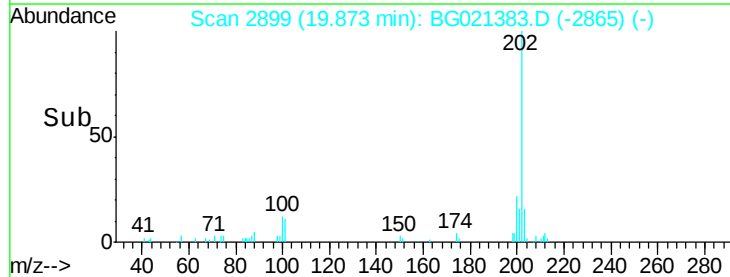
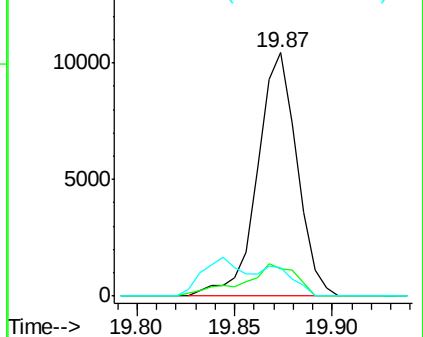


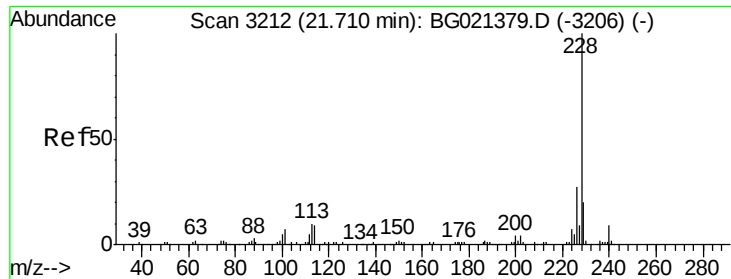
#80  
Pyrene  
Concen: 2.95 ng/ul  
RT: 19.87 min Scan# 2899  
Delta R.T. 0.00 min  
Lab File: BG021383.D  
Acq: 9 Mar 2016 1:46

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 14619 |       |       |
| 101     | 11.4  | 11.0  | 16.4  |       |
| 100     | 11.7  | 8.1   | 12.1  |       |



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





#83

Benzo(a)anthracene

Concen: 1.86 ng/ul

RT: 21.71 min Scan# 3212

Delta R.T. 0.00 min

Lab File: BG021383.D

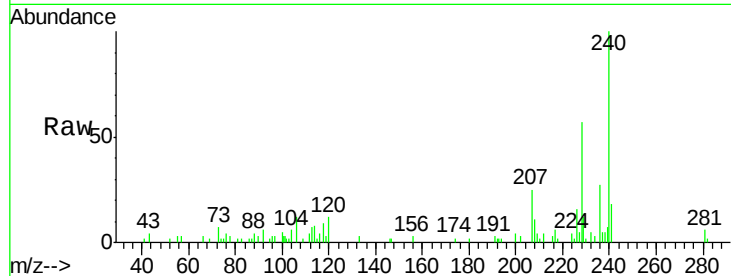
Acq: 9 Mar 2016 1:46

Instrument :

BNA\_G

ClientSampleId :

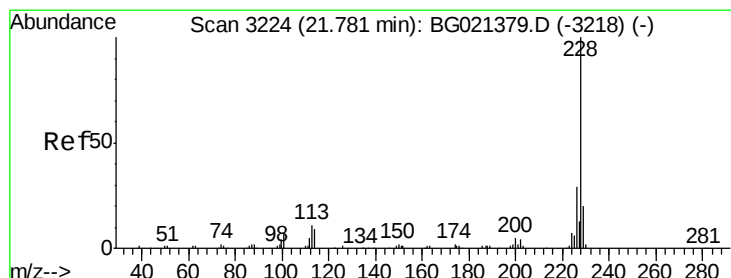
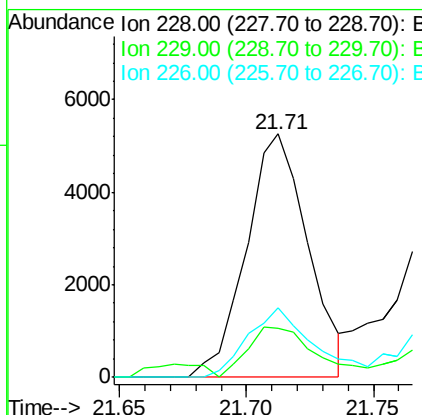
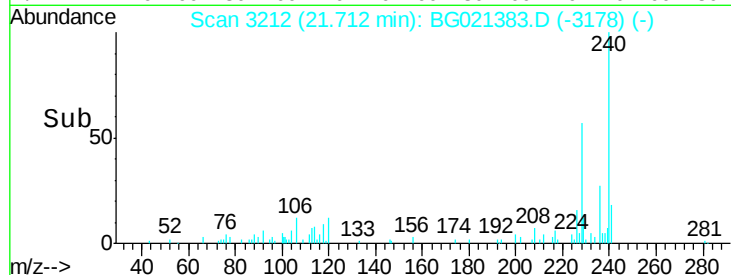
MS-SS-E350



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 8924 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 229       | 20.0  | 15.7  | 23.5 |
| 226       | 28.7  | 21.1  | 31.7 |

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#85

Chrysene

Concen: 1.97 ng/ul

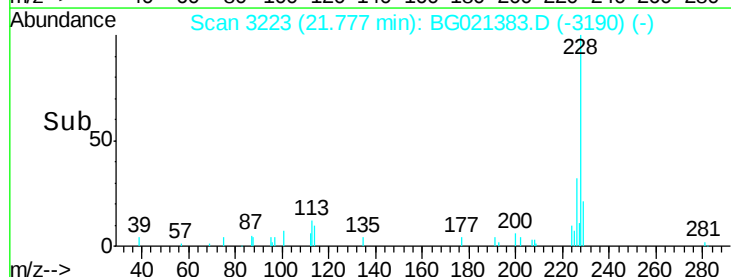
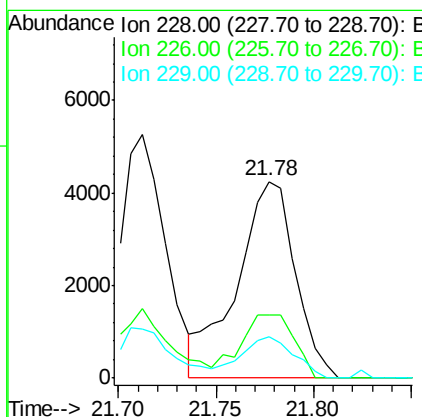
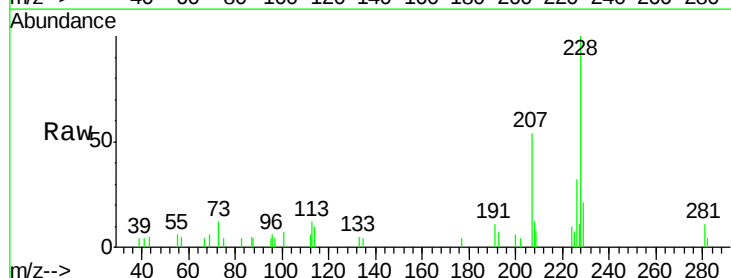
RT: 21.78 min Scan# 3223

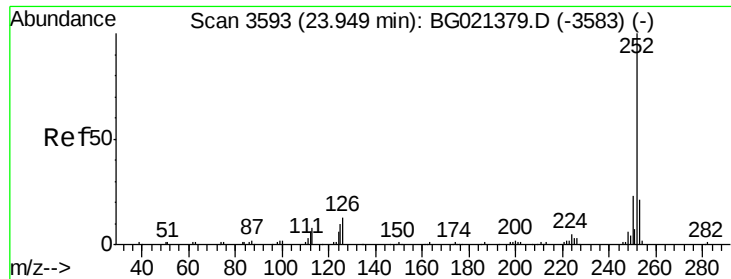
Delta R.T. -0.00 min

Lab File: BG021383.D

Acq: 9 Mar 2016 1:46

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 8813 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 32.2  | 24.5  | 36.7 |
| 229       | 21.2  | 15.8  | 23.8 |





#88

Benzo(b)fluoranthene

Concen: 2.22 ng/ul m

RT: 23.96 min Scan# 3594

Delta R.T. 0.01 min

Lab File: BG021383.D

Acq: 9 Mar 2016 1:46

Instrument :

BNA\_G

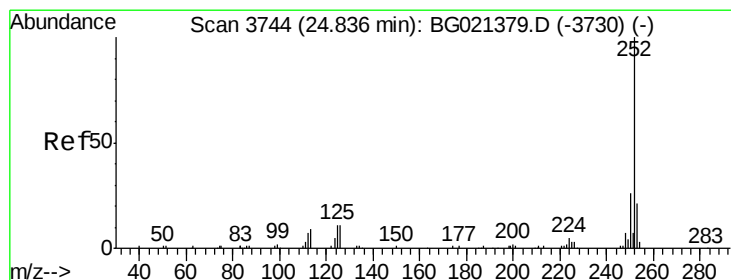
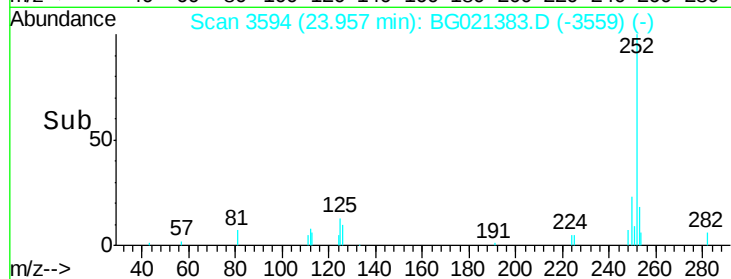
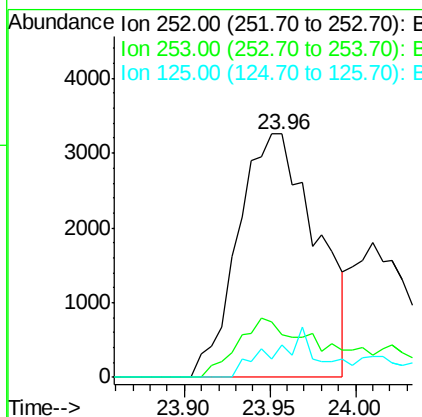
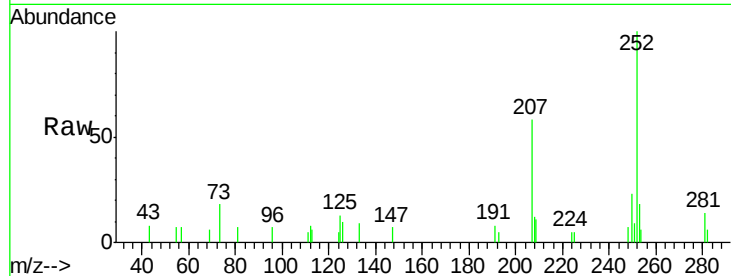
ClientSampleId :

MS-SS-E350

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 10391 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 17.6  | 18.0  | 27.0# |
| 125       | 13.2  | 8.0   | 12.0# |

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#91

Benzo(a)pyrene

Concen: 1.25 ng/ul

RT: 24.84 min Scan# 3744

Delta R.T. 0.00 min

Lab File: BG021383.D

Acq: 9 Mar 2016 1:46

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 5652 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 20.0  | 17.2  | 25.8 |
| 125       | 10.7  | 8.2   | 12.4 |

