

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA G\DATA\BG101517\  
 Data File : BG029251.D  
 Acq On : 15 Oct 2017 9:34  
 Operator : SJ/JU  
 Sample : I5593-17  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 B0C80

Manual Integrations  
 APPROVED

Sohil  
 10/16/2017 7:43:56 PM

Quant Time: Oct 16 09:07:43 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG101417.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sun Oct 15 07:39:50 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.17  | 152  | 118293   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.99 | 136  | 525864   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.79 | 164  | 312144   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.53 | 188  | 664471   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.80 | 240  | 590103   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.12 | 264  | 588309   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.55  | 96  | 10993  | 3.78  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.32  | 99  | 230639 | 20.31 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.49  | 67  | 166646 | 23.46 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.70  | 132 | 189991 | 23.72 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.87  | 113 | 164305 | 17.92 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.34  | 128 | 103458 | 27.41 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.06 | 143 | 110740 | 28.63 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.60 | 165 | 205803 | 23.35 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.12 | 131 | 212758 | 20.78 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.18 | 166 | 633729 | 23.75 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.49 | 160 | 798807 | 24.61 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.96 | 143 | 68110  | 13.82 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.78 | 176 | 550419 | 25.18 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.89 | 200 | 54970  | 16.95 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.63 | 188 | 782297 | 24.89 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.90 | 212 | 799503 | 26.17 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 24.89 | 264 | 683739 | 24.54 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |         |       | Ovalue |    |
|----------------------------|-------|-----|---------|-------|--------|----|
| 6) Phenol                  | 7.34  | 94  | 51498   | 4.384 | ng/ul  | 88 |
| 44) Dimethylphthalate      | 14.23 | 163 | 171696  | 6.596 | ng/ul# | 97 |
| 69) Phenanthrene           | 17.57 | 178 | 155306  | 4.324 | ng/ul  | 97 |
| 74) Fluoranthene           | 19.56 | 202 | 304348  | 7.581 | ng/ul# | 91 |
| 77) Pyrene                 | 19.93 | 202 | 276061  | 6.980 | ng/ul# | 90 |
| 80) Benzo(a)anthracene     | 21.78 | 228 | 125865  | 3.403 | ng/ul  | 99 |
| 82) Chrysene               | 21.84 | 228 | 145721m | 4.337 | ng/ul  |    |
| 85) Benzo(b)fluoranthene   | 24.06 | 252 | 170610  | 4.831 | ng/ul# | 89 |
| 86) Benzo(k)fluoranthene   | 24.12 | 252 | 53085m  | 1.555 | ng/ul  |    |
| 88) Benzo(a)pyrene         | 24.96 | 252 | 114176  | 3.321 | ng/ul# | 89 |
| 89) Indeno(1,2,3-cd)pyrene | 28.91 | 276 | 75169   | 1.933 | ng/ul# | 83 |
| 91) Benzo(g,h,i)perylene   | 30.08 | 276 | 58564   | 1.816 | ng/ul# | 77 |

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

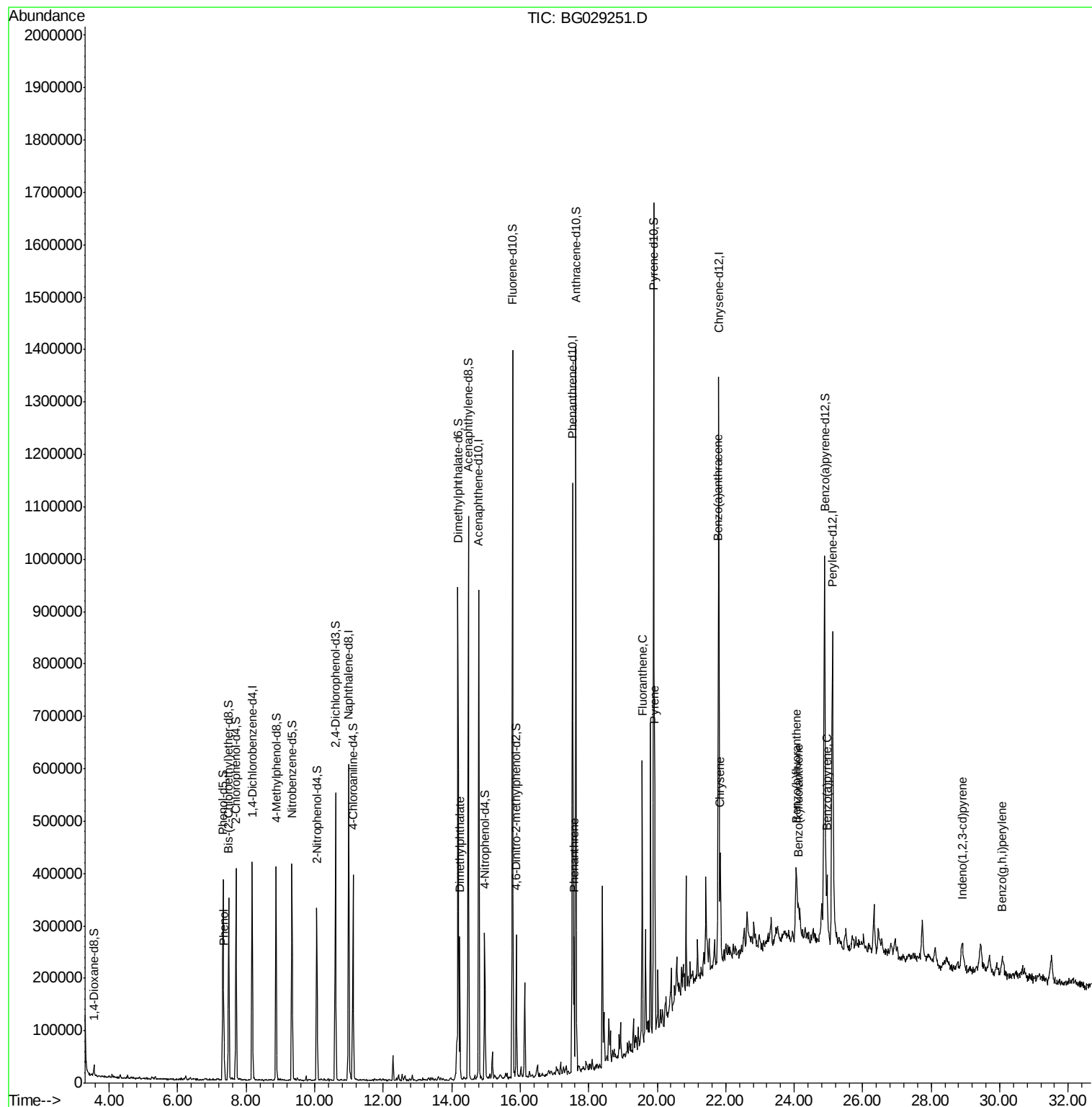
Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA G\DATA\BG101517\  
Data File : BG029251.D  
Acq On : 15 Oct 2017 9:34  
Operator : SJ/JU  
Sample : I5593-17  
Misc :  
ALS Vial : 24 Sample Multiplier: 1

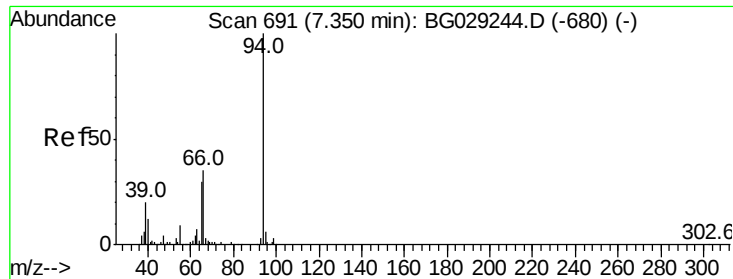
Instrument :  
BNA\_G  
ClientSampled :  
B0C80

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10/16/2017 7:43:56 PM

Quant Time: Oct 16 09:07:43 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG101417.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sun Oct 15 07:39:50 2017  
Response via : Initial Calibration





#6

Phenol

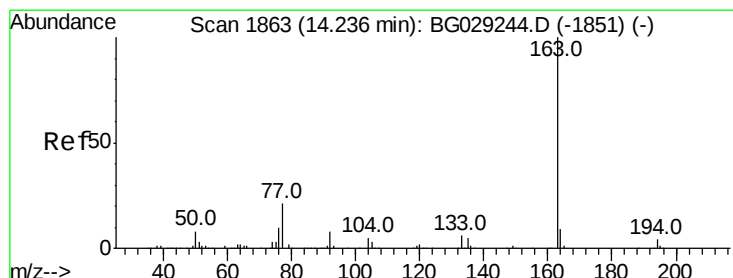
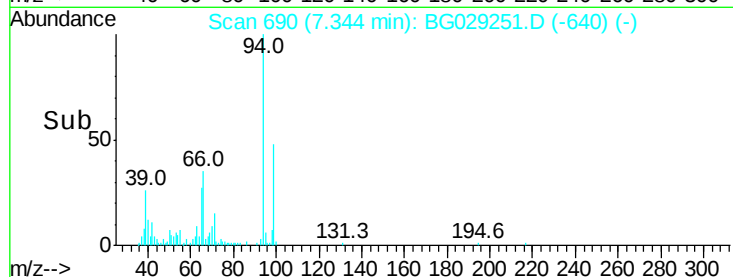
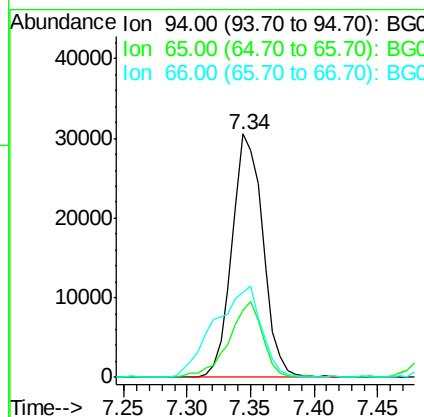
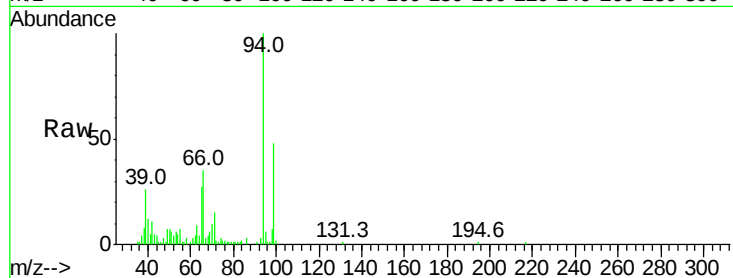
Concen: 4.384 ng/ul  
 RT: 7.34 min Scan# 690  
 Delta R.T. -0.01 min  
 Lab File: BG029251.D  
 Acq: 15 Oct 2017 9:34

Instrument :  
 BNA\_G  
 ClientSampleId :  
 B0C80

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 94      | 100   |       |       |
| 65      | 27.4  | 27.1  | 40.7  |
| 66      | 35.0  | 34.6  | 52.0  |

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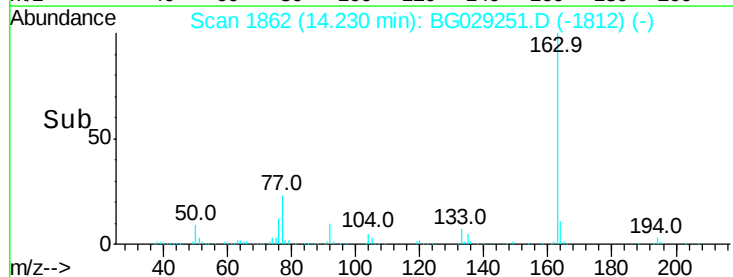
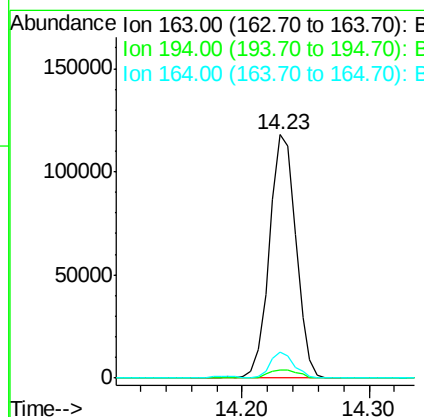
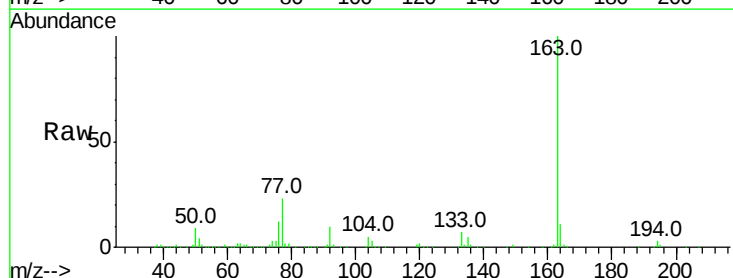


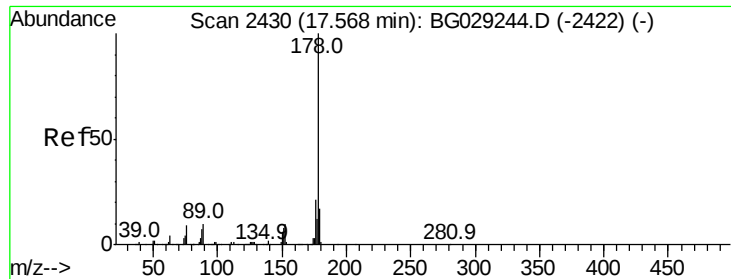
#44

Dimethylphthalate

Concen: 6.596 ng/ul  
 RT: 14.23 min Scan# 1862  
 Delta R.T. -0.01 min  
 Lab File: BG029251.D  
 Acq: 15 Oct 2017 9:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.4   | 3.5   | 5.3#  |
| 164     | 10.7  | 7.6   | 11.4  |





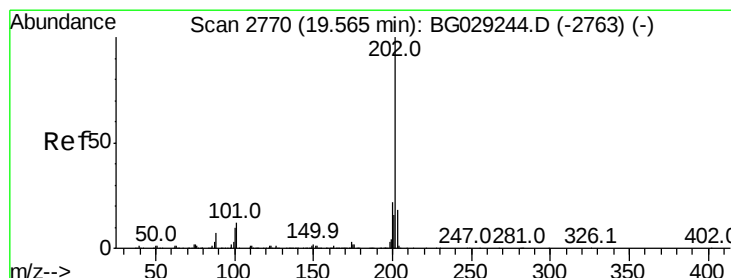
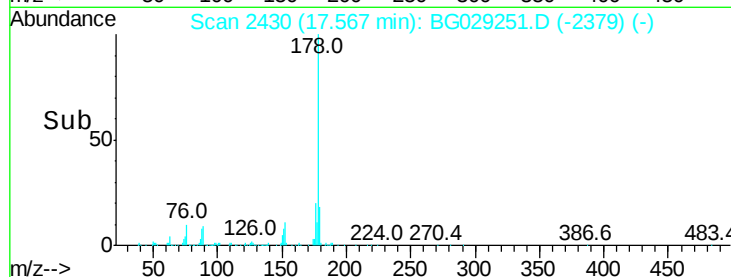
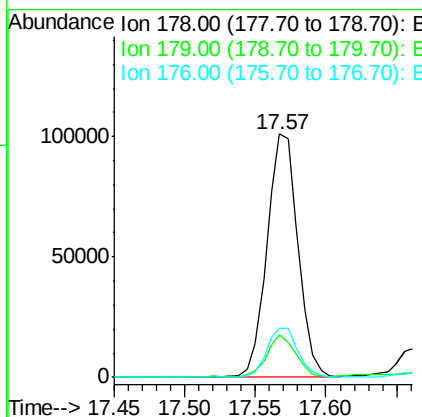
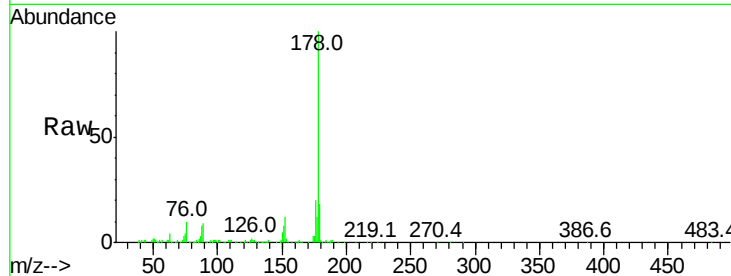
#69  
Phenanthrene  
Concen: 4.324 ng/ul  
RT: 17.57 min Scan# 2430  
Delta R.T. -0.00 min  
Lab File: BG029251.D  
Acq: 15 Oct 2017 9:34

Instrument :  
BNA\_G  
ClientSampleId :  
B0C80

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 17.6  | 13.0  | 19.6  |
| 176     | 20.2  | 15.3  | 22.9  |

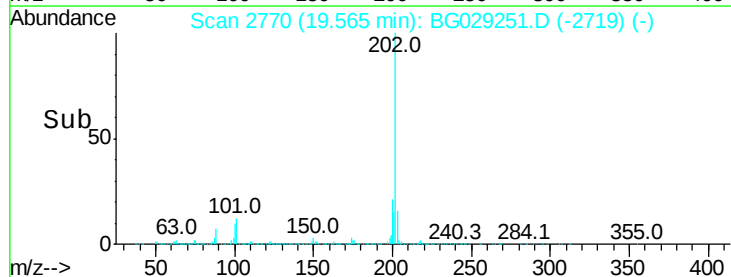
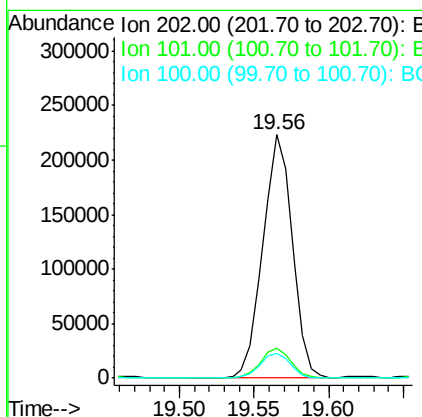
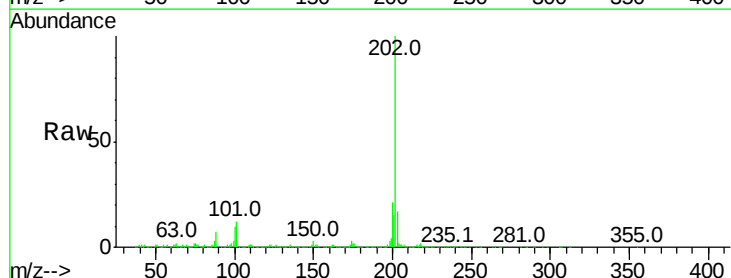
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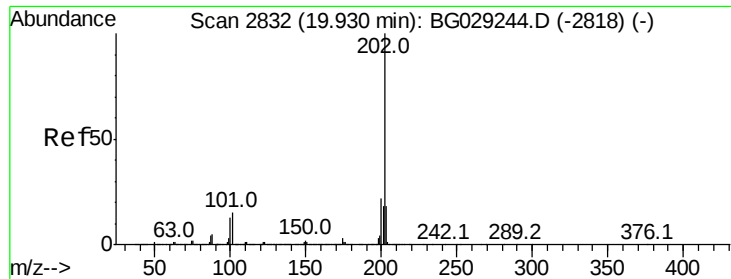
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#74  
Fluoranthene  
Concen: 7.581 ng/ul  
RT: 19.56 min Scan# 2770  
Delta R.T. -0.00 min  
Lab File: BG029251.D  
Acq: 15 Oct 2017 9:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.4  | 7.4   | 11.2# |
| 100     | 10.0  | 5.6   | 8.4#  |





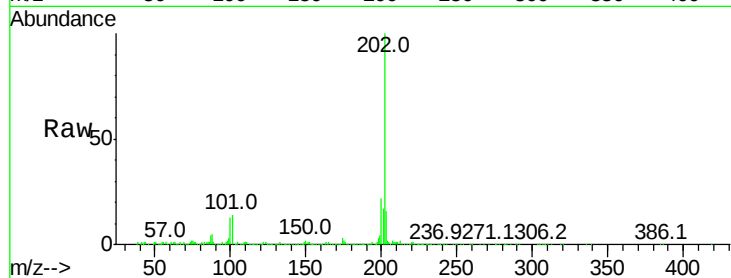
#77  
Pvrene  
Concen: 6.980 ng/ul  
RT: 19.93 min Scan# 2832  
Delta R.T. -0.00 min  
Lab File: BG029251.D  
Acq: 15 Oct 2017 9:34

Instrument :  
BNA\_G  
ClientSampled :  
B0C80

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 13.7  | 8.4        | 12.6# |
| 100     | 12.8  | 7.0        | 10.6# |

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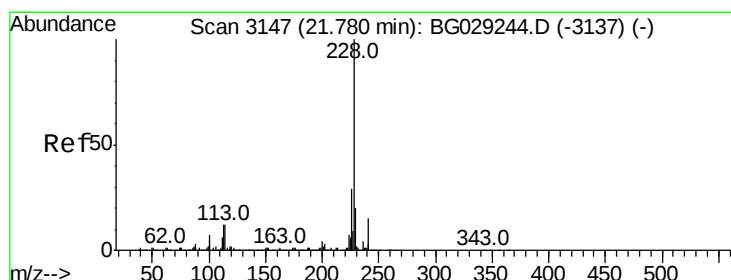
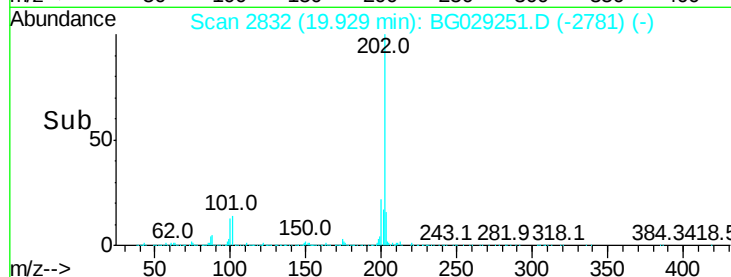
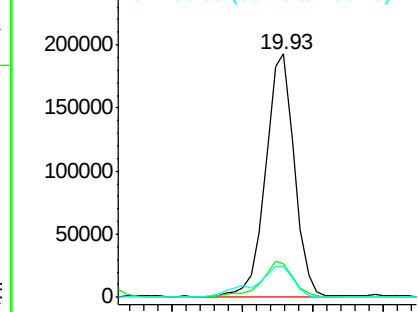


Abundance

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): E



#80  
Benzo(a)anthracene  
Concen: 3.403 ng/ul  
RT: 21.78 min Scan# 3147  
Delta R.T. -0.00 min  
Lab File: BG029251.D  
Acq: 15 Oct 2017 9:34

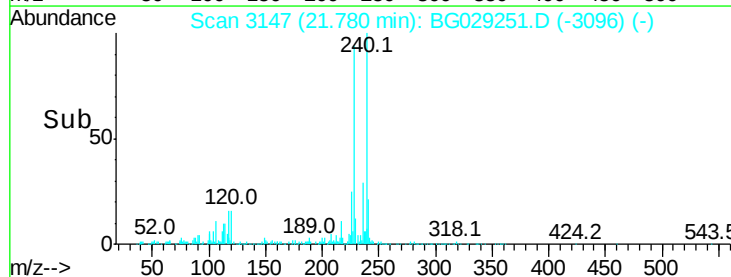
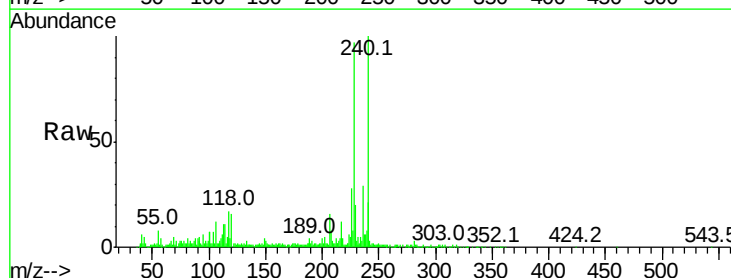
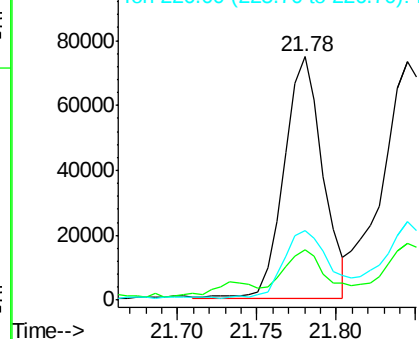
| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 20.7  | 16.2       | 24.4  |
| 226     | 28.6  | 22.2       | 33.2  |

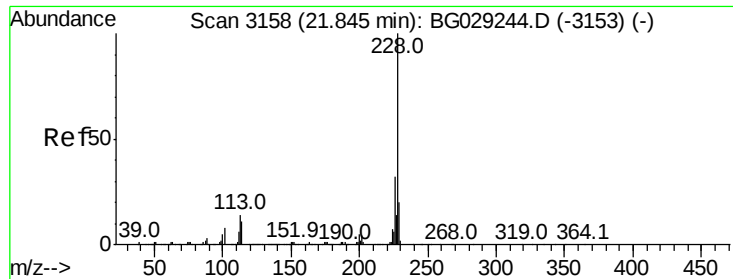
Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#82

Chrysene

Concen: 4.337 ng/ul m

RT: 21.84 min Scan# 3158

Delta R.T. -0.00 min

Lab File: BG029251.D

Acq: 15 Oct 2017 9:34

Instrument :

BNA\_G

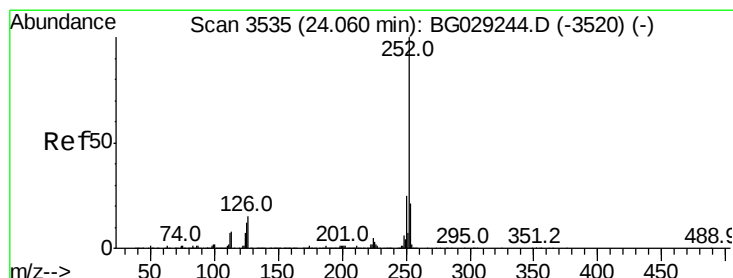
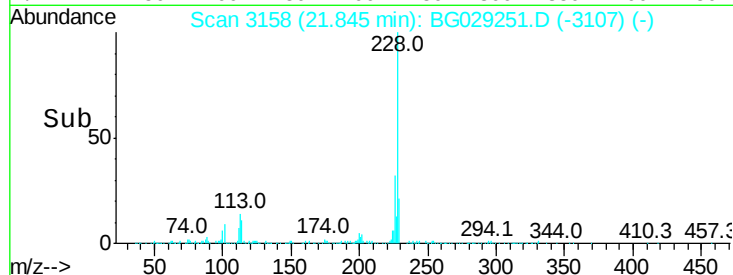
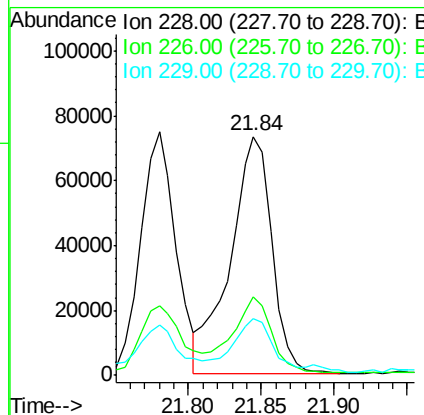
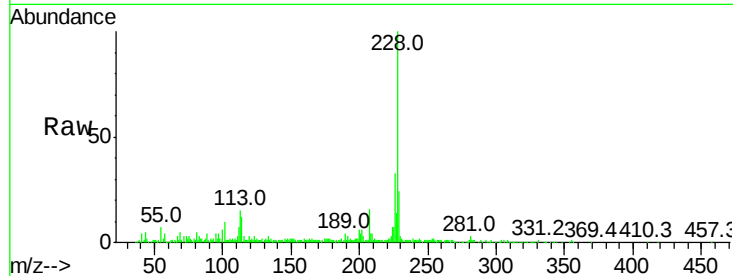
ClientSampled :

B0C80

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 145721 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 33.1  | 24.2  | 36.2   |
| 229       | 23.8  | 15.2  | 22.8#  |

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#85

Benzo(b)fluoranthene

Concen: 4.831 ng/ul

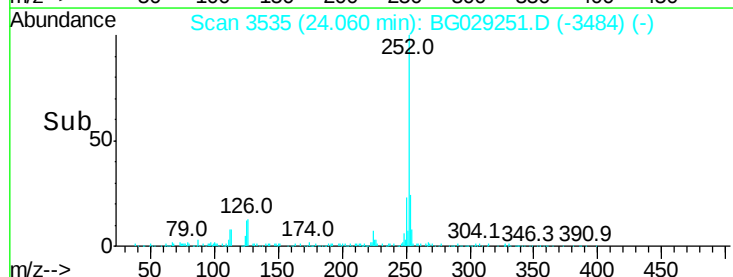
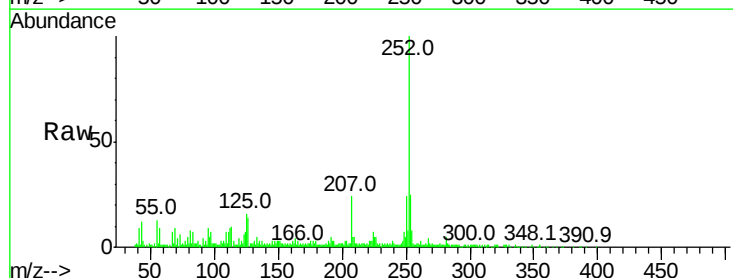
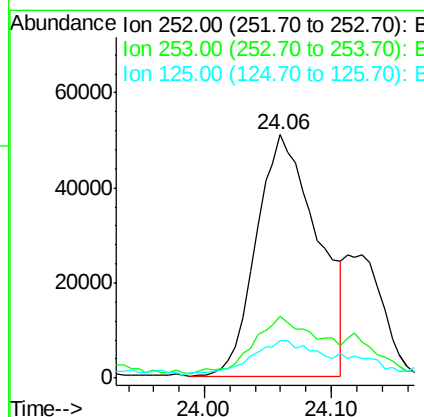
RT: 24.06 min Scan# 3535

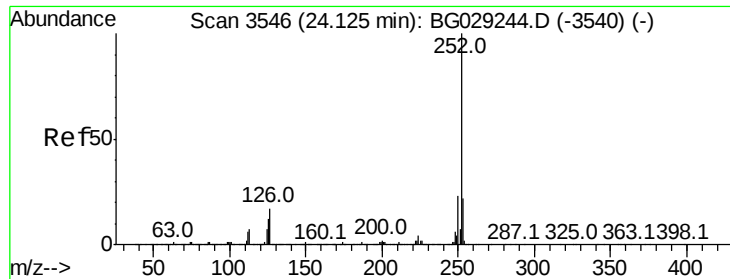
Delta R.T. -0.00 min

Lab File: BG029251.D

Acq: 15 Oct 2017 9:34

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 170610 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 25.2  | 17.0  | 25.4   |
| 125       | 15.6  | 7.5   | 11.3#  |





#86

Benzo(k)fluoranthene

Concen: 1.555 ng/ul m

RT: 24.12 min Scan# 3546

Delta R.T. -0.00 min

Lab File: BG029251.D

Acq: 15 Oct 2017 9:34

Instrument :

BNA\_G

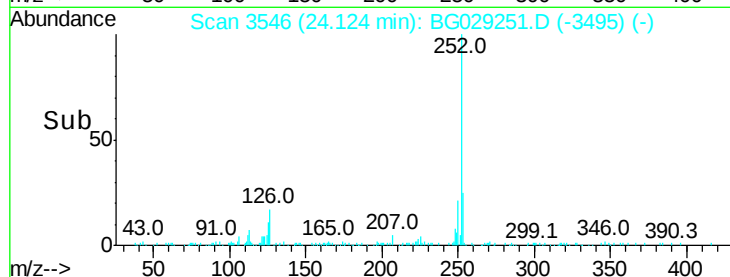
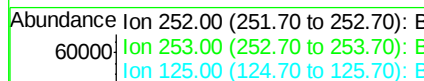
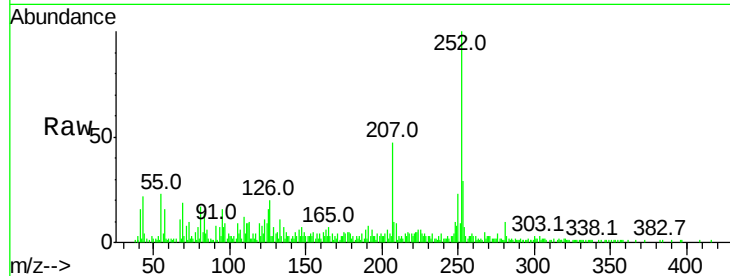
ClientSampled :

B0C80

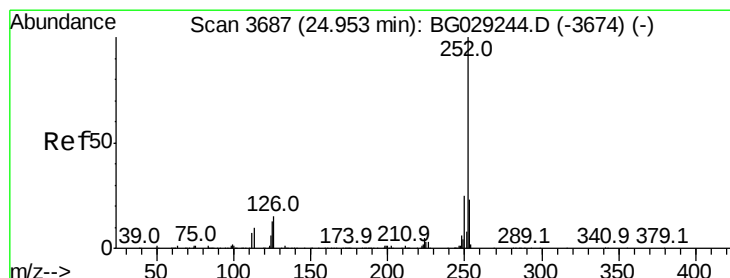
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 53085 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 29.0  | 17.2  | 25.8# |
| 125       | 15.6  | 7.8   | 11.8# |

Manual Integrations  
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Time-->



#88

Benzo(a)pyrene

Concen: 3.321 ng/ul

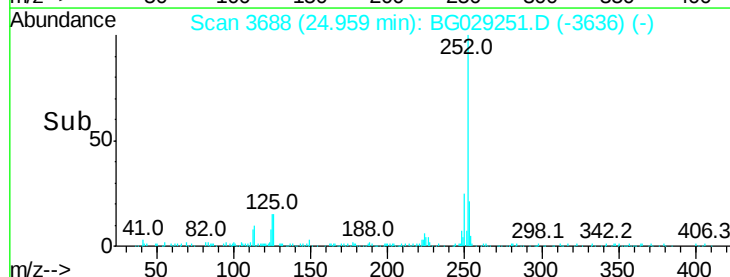
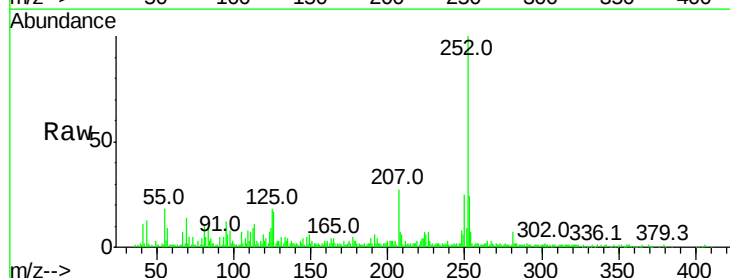
RT: 24.96 min Scan# 3688

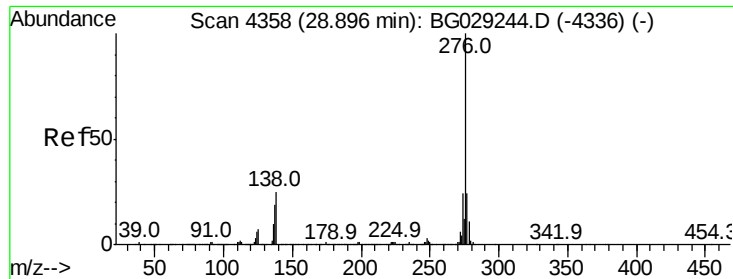
Delta R.T. 0.01 min

Lab File: BG029251.D

Acq: 15 Oct 2017 9:34

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 114176 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.1  | 17.1  | 25.7   |
| 125       | 17.6  | 7.8   | 11.8#  |





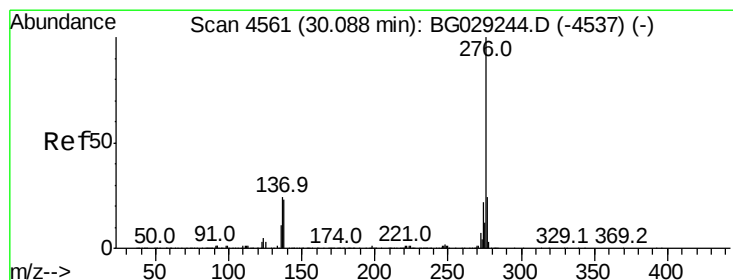
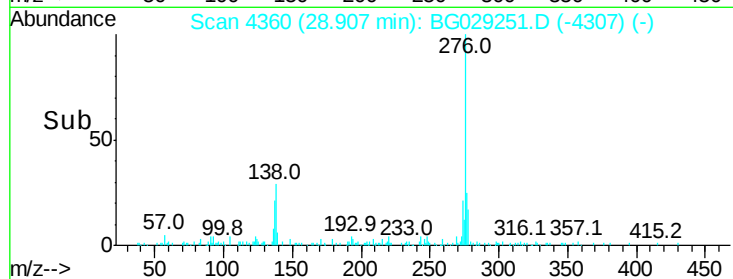
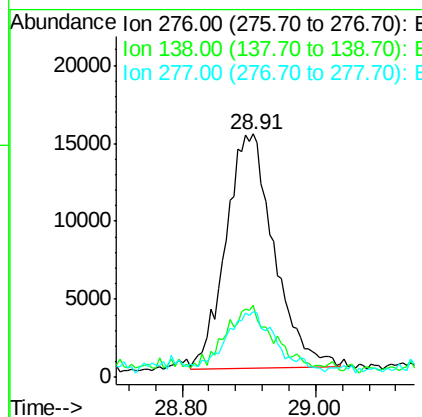
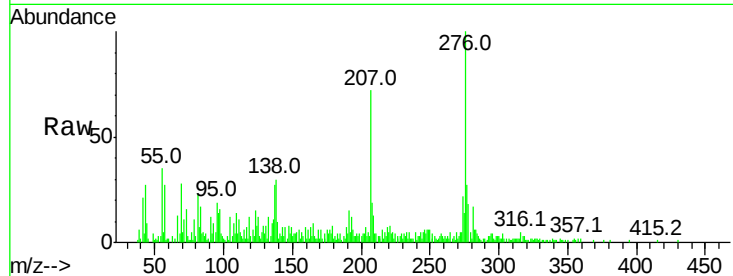
#89  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.933 ng/ul  
 RT: 28.91 min Scan# 4360  
 Delta R.T. 0.01 min  
 Lab File: BG029251.D  
 Acq: 15 Oct 2017 9:34

Instrument :  
 BNA\_G  
 ClientSampleId :  
 B0C80

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 29.5  | 13.4  | 20.0# |
| 277     | 27.1  | 18.6  | 28.0  |

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#91  
 Benzo(g,h,i)perylene  
 Concen: 1.816 ng/ul  
 RT: 30.08 min Scan# 4559  
 Delta R.T. -0.01 min  
 Lab File: BG029251.D  
 Acq: 15 Oct 2017 9:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 34.0  | 12.1  | 18.1# |
| 277     | 26.1  | 17.7  | 26.5  |

