

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\  
 Data File : BG021948.D  
 Acq On : 19 May 2016 1:17  
 Operator : UM/SJ  
 Sample : H3092-17  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9XD1

Manual Integrations  
 APPROVED

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 5/19/2016 7:08:52 PM

Quant Time: May 19 03:56:13 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG051816.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 19 03:03:18 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.16  | 152  | 29274    | 20.00 | ng/ul | 0.00     |
| 7) Naphthalene-d8         | 10.98 | 136  | 155006   | 20.00 | ng/ul | 0.00     |
| 15) Acenaphthene-d10      | 14.78 | 164  | 91633    | 20.00 | ng/ul | 0.00     |
| 23) Phenanthrene-d10      | 17.53 | 188  | 188464   | 20.00 | ng/ul | 0.00     |
| 29) Chrysene-d12          | 21.80 | 240  | 164419   | 20.00 | ng/ul | -0.01    |
| 34) Perylene-d12          | 25.13 | 264  | 152099   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 2) 1,4-Dioxane-d8              | 3.54  | 96  | 2327   | 3.65  | ng/uL | 0.00 |
| 3) Phenol-d5                   | 7.31  | 99  | 35666  | 13.80 | ng/ul | 0.00 |
| 4) Bis-(2-Chloroethyl)ether-d  | 7.48  | 67  | 23018  | 16.72 | ng/ul | 0.00 |
| 5) 2-Chlorophenol-d4           | 7.69  | 132 | 34438  | 16.23 | ng/ul | 0.00 |
| 6) 4-Methylphenol-d8           | 8.87  | 113 | 17823  | 7.74  | ng/ul | 0.00 |
| 8) Nitrobenzene-d5             | 9.34  | 128 | 18828  | 17.31 | ng/ul | 0.00 |
| 9) 2-Nitrophenol-d4            | 10.06 | 143 | 19941  | 17.19 | ng/ul | 0.00 |
| 10) 2,4-Dichlorophenol-d3      | 10.60 | 165 | 33858  | 16.51 | ng/ul | 0.00 |
| 12) 4-Chloroaniline-d4         | 11.12 | 131 | 25011m | 15.48 | ng/ul | 0.00 |
| 16) Dimethylphthalate-d6       | 14.18 | 166 | 129869 | 18.38 | ng/ul | 0.00 |
| 17) Acenaphthylene-d8          | 14.48 | 160 | 176506 | 19.40 | ng/ul | 0.00 |
| 20) 4-Nitrophenol-d4           | 15.00 | 143 | 6849m  | 5.51  | ng/ul | 0.02 |
| 21) Fluorene-d10               | 15.77 | 176 | 117474 | 18.47 | ng/ul | 0.00 |
| 24) 4,6-Dinitro-2-methylphenol | 15.89 | 200 | 10918  | 11.67 | ng/ul | 0.00 |
| 26) Anthracene-d10             | 17.63 | 188 | 160013 | 18.43 | ng/ul | 0.00 |
| 30) Pyrene-d10                 | 19.90 | 212 | 169220 | 19.51 | ng/ul | 0.00 |
| 37) Benzo(a)pyrene-d12         | 24.90 | 264 | 128193 | 18.98 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |        |      |        | Ovalue |
|----------------------------|-------|-----|--------|------|--------|--------|
| 25) Phenanthrene           | 17.57 | 178 | 17126  | 1.70 | ng/ul  | 95     |
| 28) Fluoranthene           | 19.56 | 202 | 29660  | 2.83 | ng/ul  | 96     |
| 31) Pyrene                 | 19.93 | 202 | 28172m | 2.49 | ng/ul  |        |
| 32) Benzo(a)anthracene     | 21.79 | 228 | 16617  | 1.82 | ng/ul  | 94     |
| 33) Chrysene               | 21.85 | 228 | 16767m | 1.89 | ng/ul  |        |
| 35) Benzo(b)fluoranthene   | 24.07 | 252 | 27917  | 3.19 | ng/ul# | 91     |
| 38) Benzo(a)pyrene         | 24.98 | 252 | 14470  | 1.73 | ng/ul# | 91     |
| 39) Indeno(1,2,3-cd)pyrene | 28.94 | 276 | 10127m | 1.07 | ng/ul  |        |
| 41) Benzo(a,h,i)perylene   | 30.11 | 276 | 9936m  | 1.24 | ng/ul  |        |

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

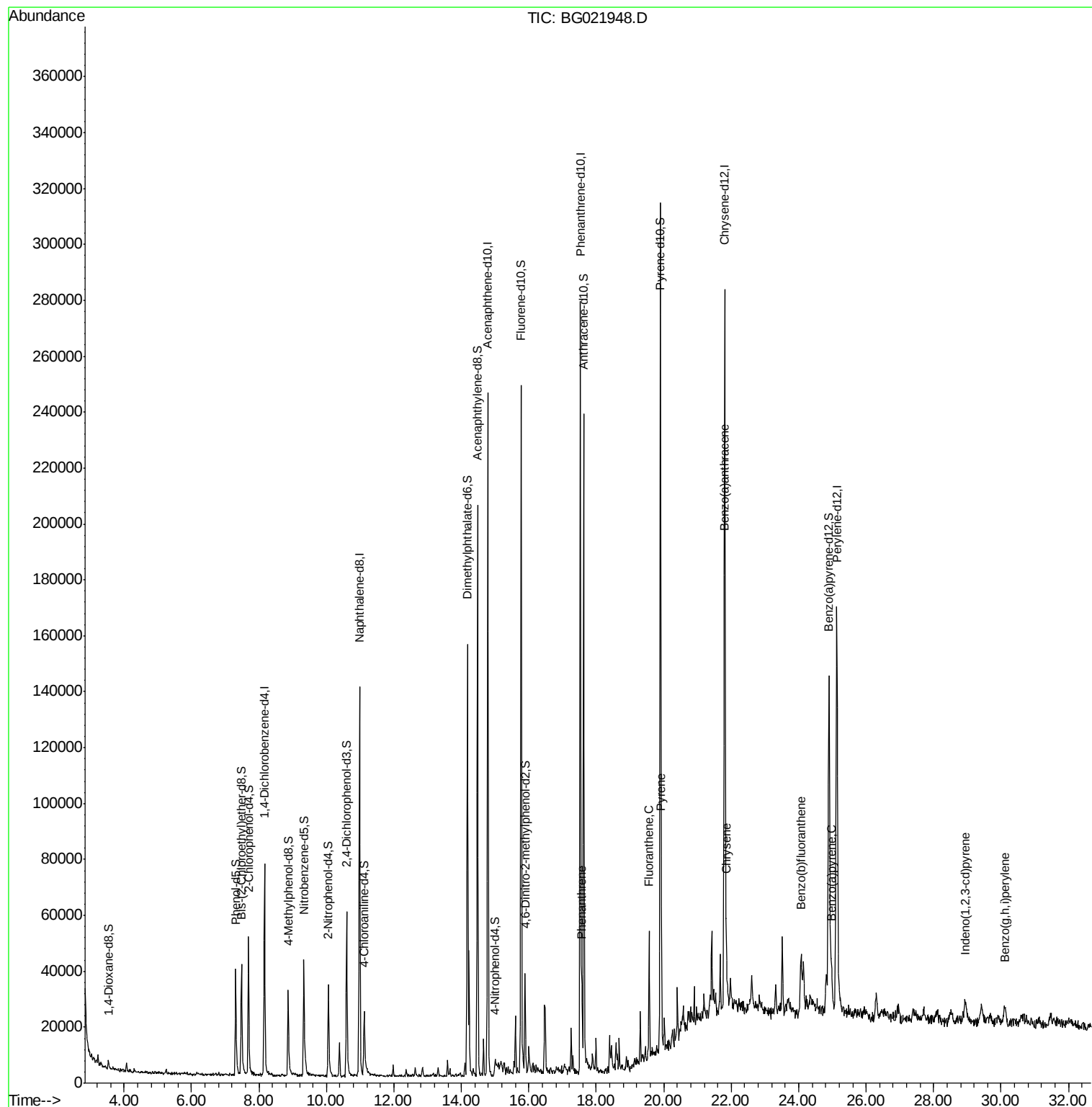
Data Path : Z:\HPCHEM1\BNA G\DATA\BG051816\  
Data File : BG021948.D  
Acq On : 19 May 2016 1:17  
Operator : UM/SJ  
Sample : H3092-17  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

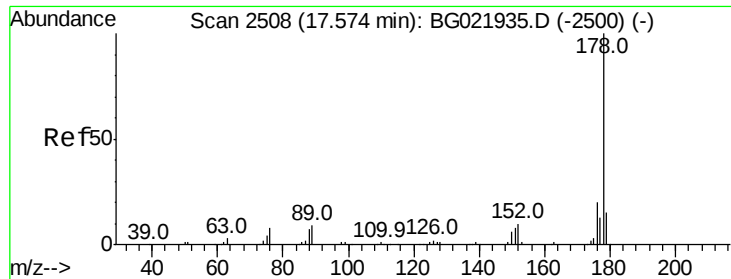
Instrument :  
BNA\_G  
ClientSampleId :  
D9XD1

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Quant Time: May 19 03:56:13 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG051816.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu May 19 03:03:18 2016  
Response via : Initial Calibration





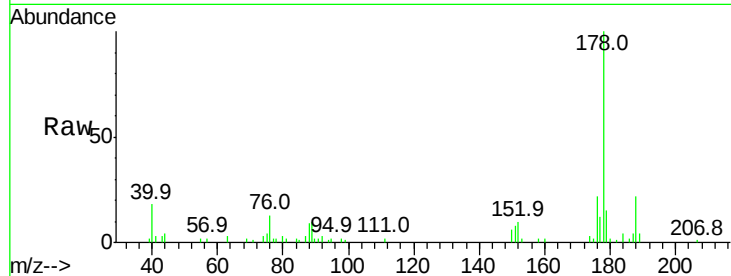
#25  
Phenanthrene  
Concen: 1.70 ng/ul  
RT: 17.57 min Scan# 2507  
Delta R.T. -0.01 min  
Lab File: BG021948.D  
Acq: 19 May 2016 1:17

Instrument :  
BNA\_G  
ClientSampleID :  
D9XD1

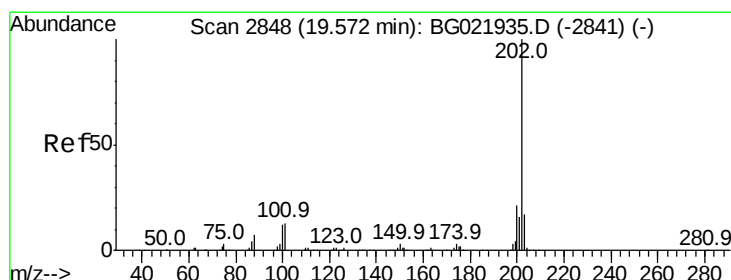
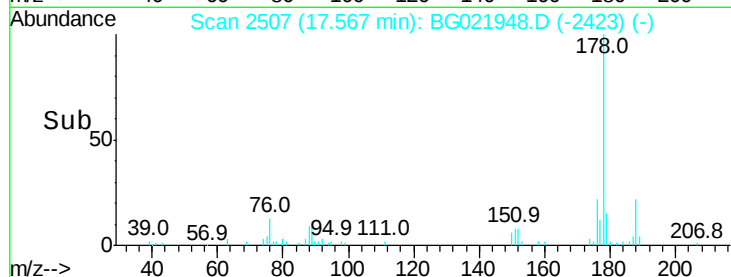
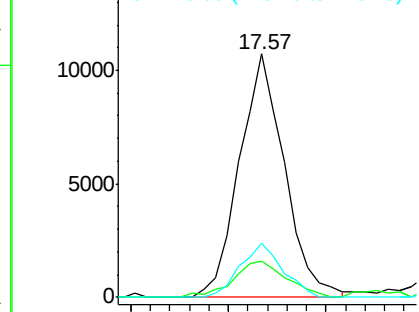
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 17126 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 14.8  | 11.8  | 17.8  |
| 176       | 22.1  | 14.8  | 22.2  |

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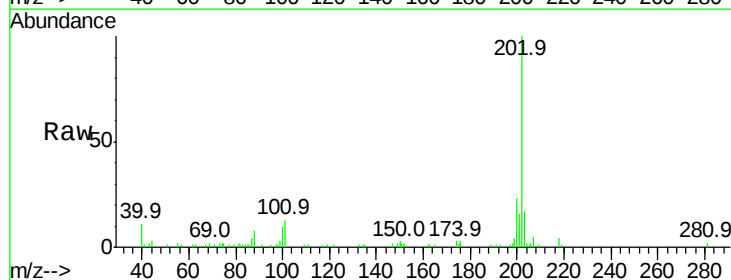


Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E

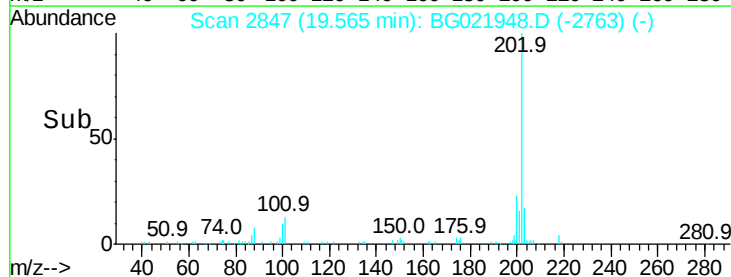
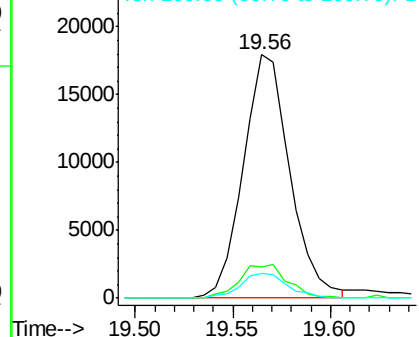


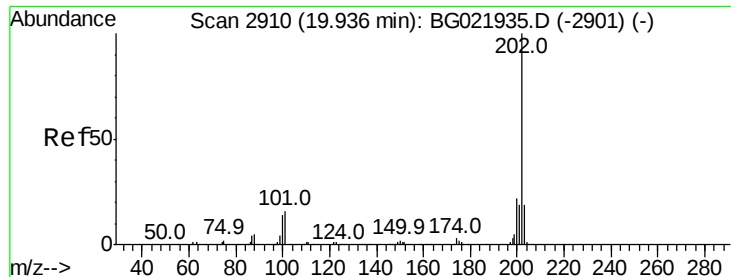
#28  
Fluoranthene  
Concen: 2.83 ng/ul  
RT: 19.56 min Scan# 2847  
Delta R.T. -0.01 min  
Lab File: BG021948.D  
Acq: 19 May 2016 1:17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 29660 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 13.0  | 8.9   | 13.3  |
| 100       | 10.0  | 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





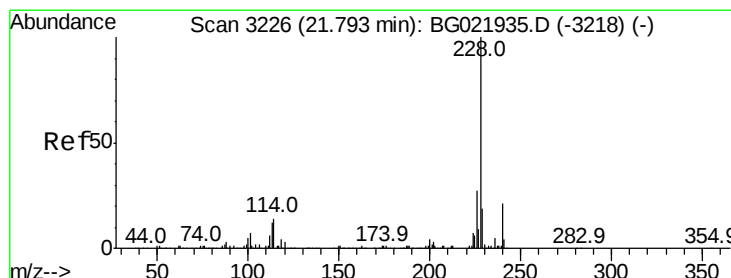
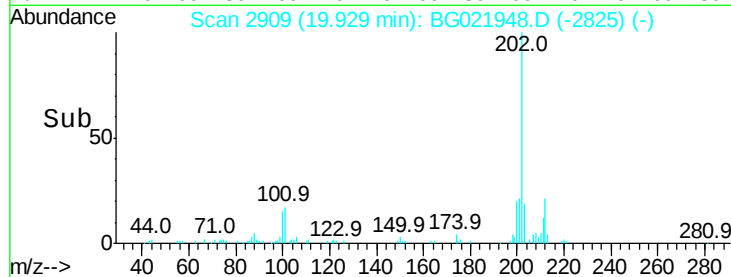
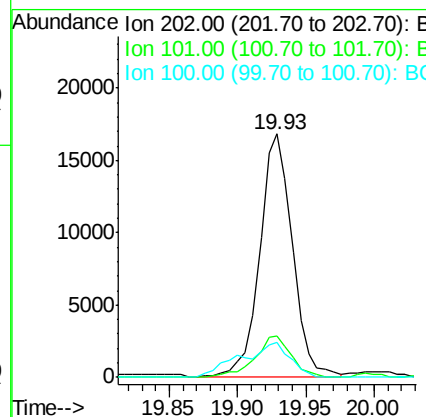
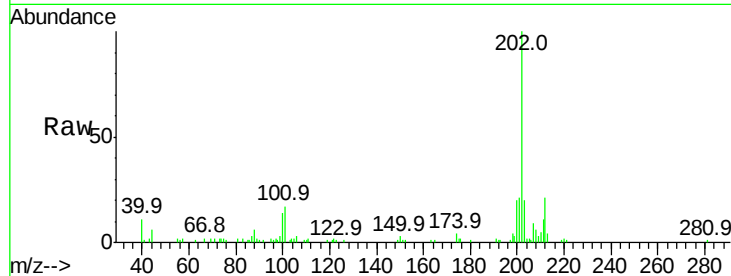
#31  
Pvrene  
Concen: 2.49 ng/ul m  
RT: 19.93 min Scan# 2909  
Delta R.T. -0.01 min  
Lab File: BG021948.D  
Acq: 19 May 2016 1:17

Instrument :  
BNA\_G  
ClientSampleId :  
D9XD1

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 17.0  | 9.8        | 14.8# |
| 100     | 14.4  | 9.3        | 13.9# |

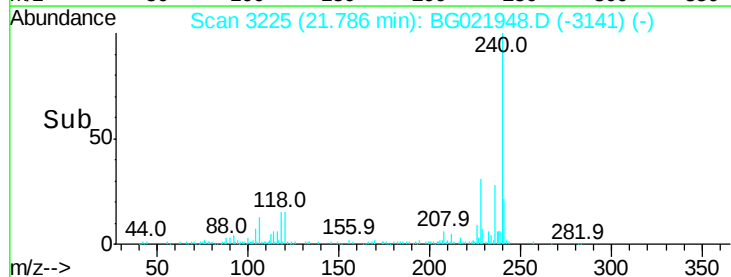
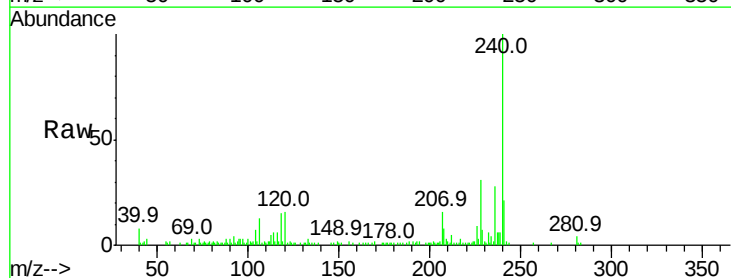
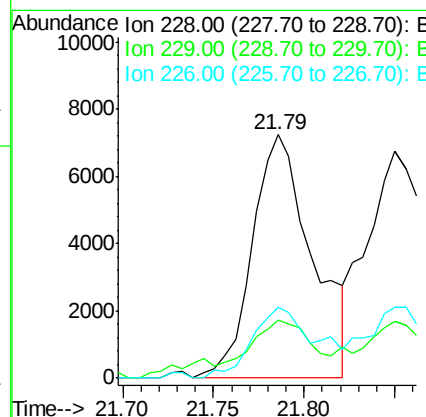
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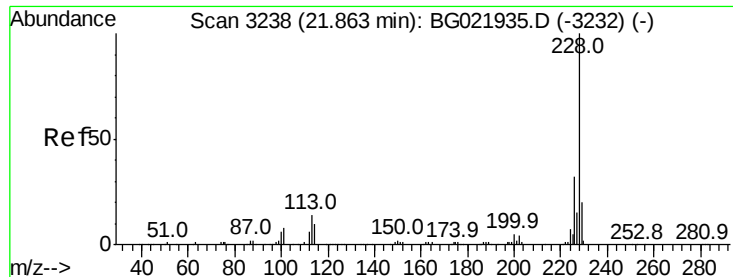
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#32  
Benzo(a)anthracene  
Concen: 1.82 ng/ul  
RT: 21.79 min Scan# 3225  
Delta R.T. -0.01 min  
Lab File: BG021948.D  
Acq: 19 May 2016 1:17

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 23.8  | 16.6       | 25.0  |
| 226     | 28.9  | 21.0       | 31.4  |





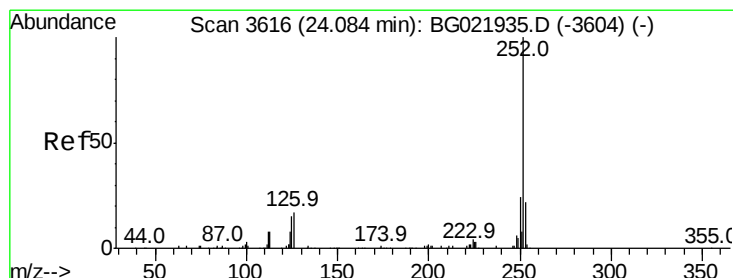
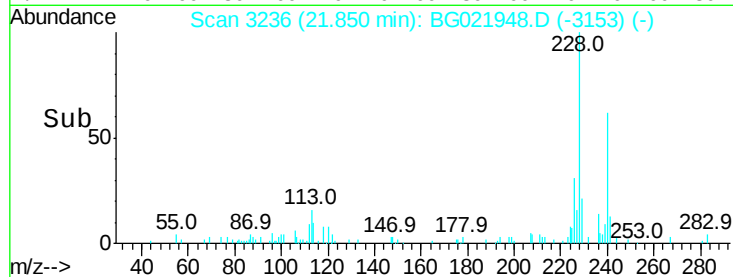
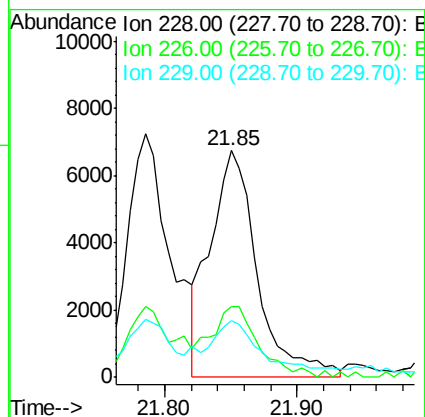
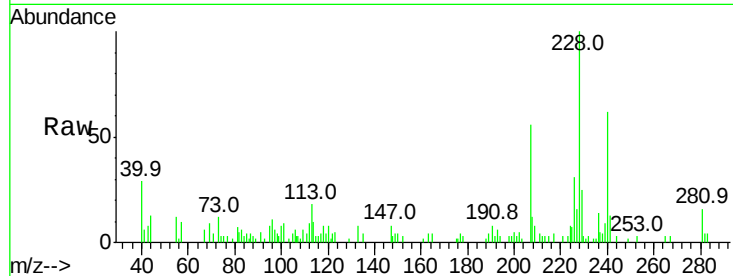
#33  
Chrysene  
Concen: 1.89 ng/ul m  
RT: 21.85 min Scan# 3236  
Delta R.T. -0.01 min  
Lab File: BG021948.D  
Acq: 19 May 2016 1:17

Instrument :  
BNA\_G  
ClientSampleID :  
D9XD1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 16767 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.2  | 23.4  | 35.2  |
| 229       | 24.9  | 16.2  | 24.2# |

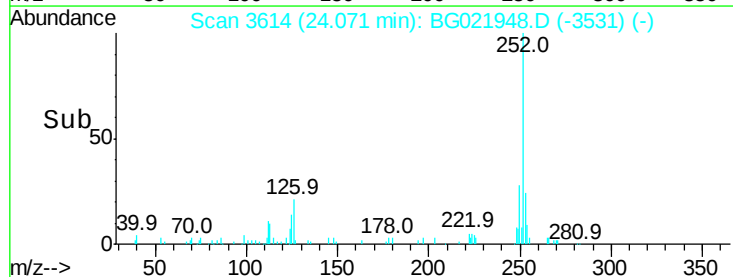
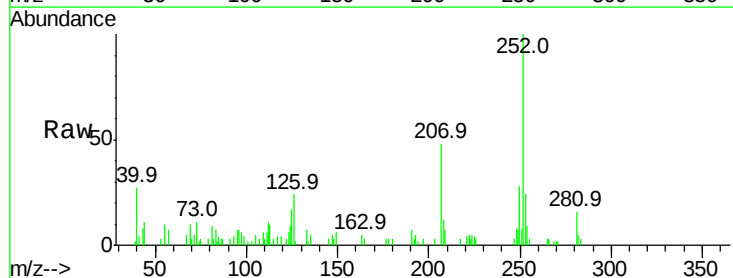
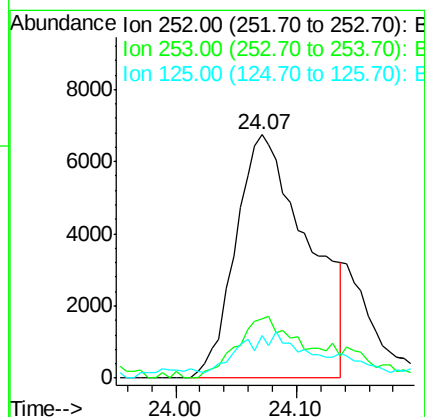
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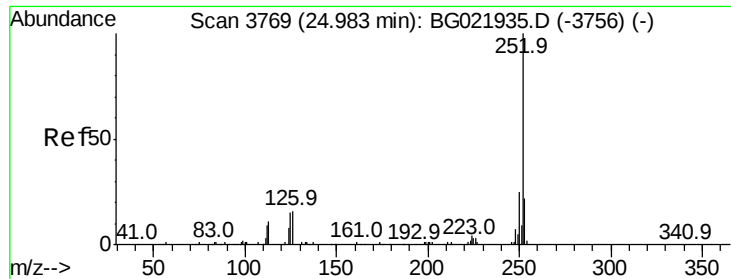
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#35  
Benzo(b)fluoranthene  
Concen: 3.19 ng/ul  
RT: 24.07 min Scan# 3614  
Delta R.T. -0.01 min  
Lab File: BG021948.D  
Acq: 19 May 2016 1:17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 27917 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.3  | 18.1  | 27.1  |
| 125       | 17.4  | 7.6   | 11.4# |





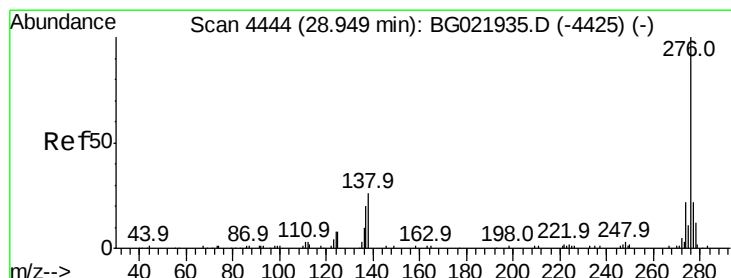
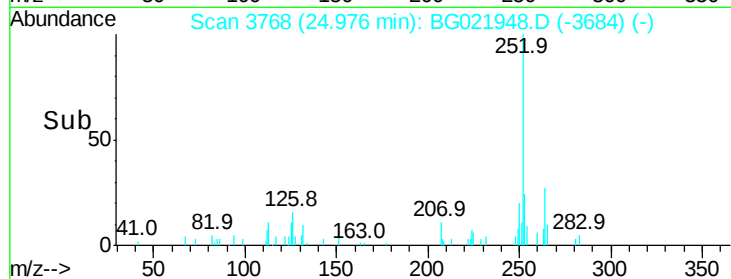
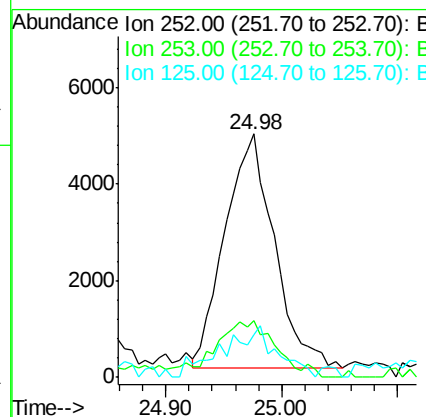
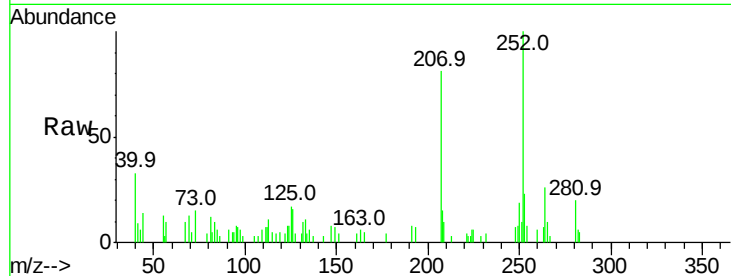
#38  
Benzo(a)pyrene  
Concen: 1.73 ng/ul  
RT: 24.98 min Scan# 3768  
Delta R.T. -0.01 min  
Lab File: BG021948.D  
Acq: 19 May 2016 1:17

Instrument :  
BNA\_G  
ClientSampleId :  
D9XD1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 17.4  | 26.0  |
| 125     | 17.4  | 8.2   | 12.2  |

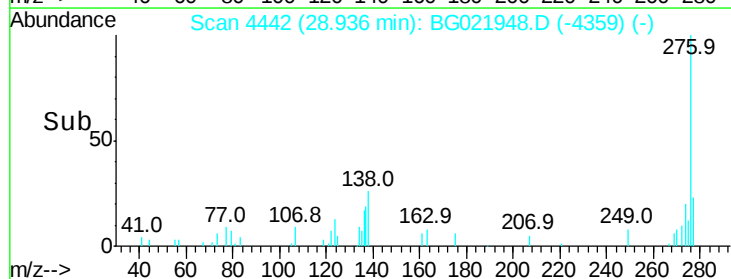
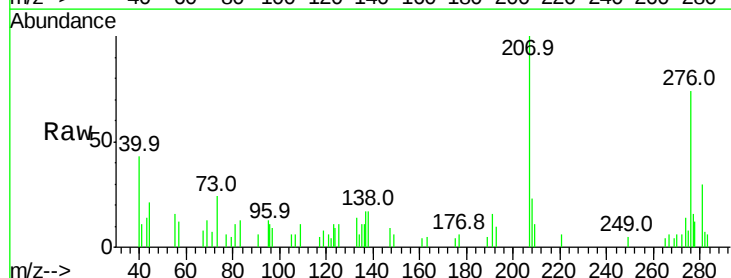
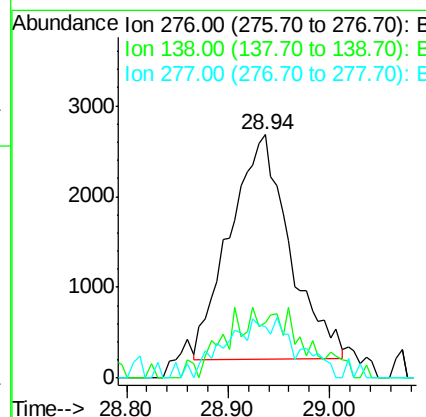
Manual Integrations  
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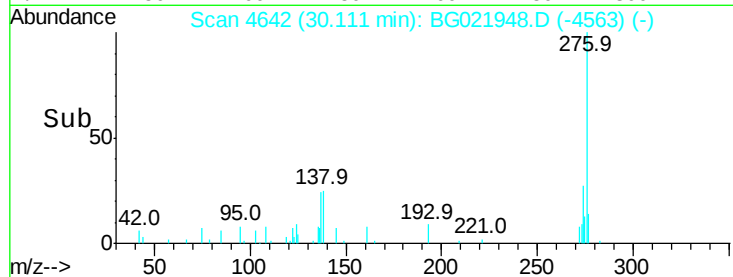
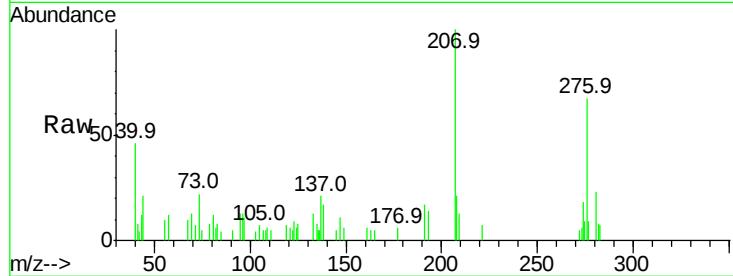
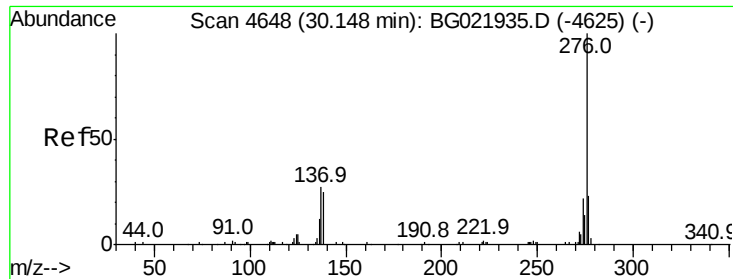
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#39  
Indeno(1,2,3-cd)pyrene  
Concen: 1.07 ng/ul m  
RT: 28.94 min Scan# 4442  
Delta R.T. -0.01 min  
Lab File: BG021948.D  
Acq: 19 May 2016 1:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.0  | 15.8  | 23.6  |
| 277     | 21.1  | 19.0  | 28.6  |





#41

Benzo(a,h,i)perylene

Concen: 1.24 ng/ul m

RT: 30.11 min Scan# 4642

Delta R.T. -0.04 min

Lab File: BG021948.D

Acq: 19 May 2016 1:17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 9936  |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 25.4  | 13.9  | 20.9# |
| 277       | 13.9  | 19.8  | 29.6# |

Instrument :

BNA\_G

ClientSampleId :

D9XD1

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