

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101317\  
 Data File : BG029178.D  
 Acq On : 11 Oct 2017 23:20  
 Operator : SJ/JU  
 Sample : I5668-12  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CB3H0

Manual Integrations  
 APPROVED

Sohil  
 10/13/2017 12:08:14 PM

Quant Time: Oct 12 09:37:01 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG101117.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Oct 11 04:24:22 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.22  | 152  | 50598    | 20.00  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 11.03 | 136  | 222822   | 20.00  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.83 | 164  | 149310   | 20.00  | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.56 | 188  | 342466   | 20.00  | ng/ul  | 0.00     |
| 18) Chrysene-d12            | 21.85 | 240  | 368883   | 20.00  | ng/ul  | 0.00     |
| 23) Perylene-d12            | 25.19 | 264  | 375625   | 20.00  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 3) 2,4-Dichlorophenol-d3    | 10.64 | 165  | 82751    | 19.43  | ng/ul  | 0.00     |
| 7) Acenaphthylene-d8        | 14.52 | 160  | 319588   | 21.35  | ng/ul  | 0.00     |
| 10) Fluorene-d10            | 15.81 | 176  | 233831   | 19.91  | ng/ul  | 0.00     |
| 15) Anthracene-d10          | 17.66 | 188  | 350590   | 20.71  | ng/ul  | 0.00     |
| 19) Pyrene-d10              | 19.93 | 212  | 413911   | 21.36  | ng/ul  | 0.00     |
| 26) Benzo(a)pyrene-d12      | 24.96 | 264  | 391450   | 20.83  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 9) Acenaphthene             | 14.89 | 153  | 13759    | 1.366  | ng/ul  | 96       |
| 11) Fluorene                | 15.86 | 166  | 15797    | 1.362  | ng/ul  | 98       |
| 14) Phenanthrene            | 17.60 | 178  | 292562   | 15.771 | ng/ul  | 99       |
| 16) Anthracene              | 17.70 | 178  | 55857    | 2.937  | ng/ul  | 97       |
| 17) Fluoranthene            | 19.60 | 202  | 480117   | 21.995 | ng/ul  | 100      |
| 20) Pyrene                  | 19.96 | 202  | 407183   | 18.206 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.82 | 228  | 237619   | 10.573 | ng/ul  | 99       |
| 22) Chrysene                | 21.89 | 228  | 222878   | 10.986 | ng/ul  | 99       |
| 24) Benzo(b)fluoranthene    | 24.13 | 252  | 300945   | 13.002 | ng/ul  | 98       |
| 25) Benzo(k)fluoranthene    | 24.19 | 252  | 91152m   | 3.998  | ng/ul  |          |
| 27) Benzo(a)pyrene          | 25.03 | 252  | 187773   | 8.313  | ng/ul# | 98       |
| 28) Indeno(1,2,3-cd)pyrene  | 29.02 | 276  | 99933    | 4.641  | ng/ul  | 95       |
| 29) Dibenzo(a,h)anthracene  | 29.07 | 278  | 26863m   | 1.406  | ng/ul  |          |
| 30) Benzo(a,h,i)perylene    | 30.21 | 276  | 60357    | 4.020  | ng/ul# | 91       |

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

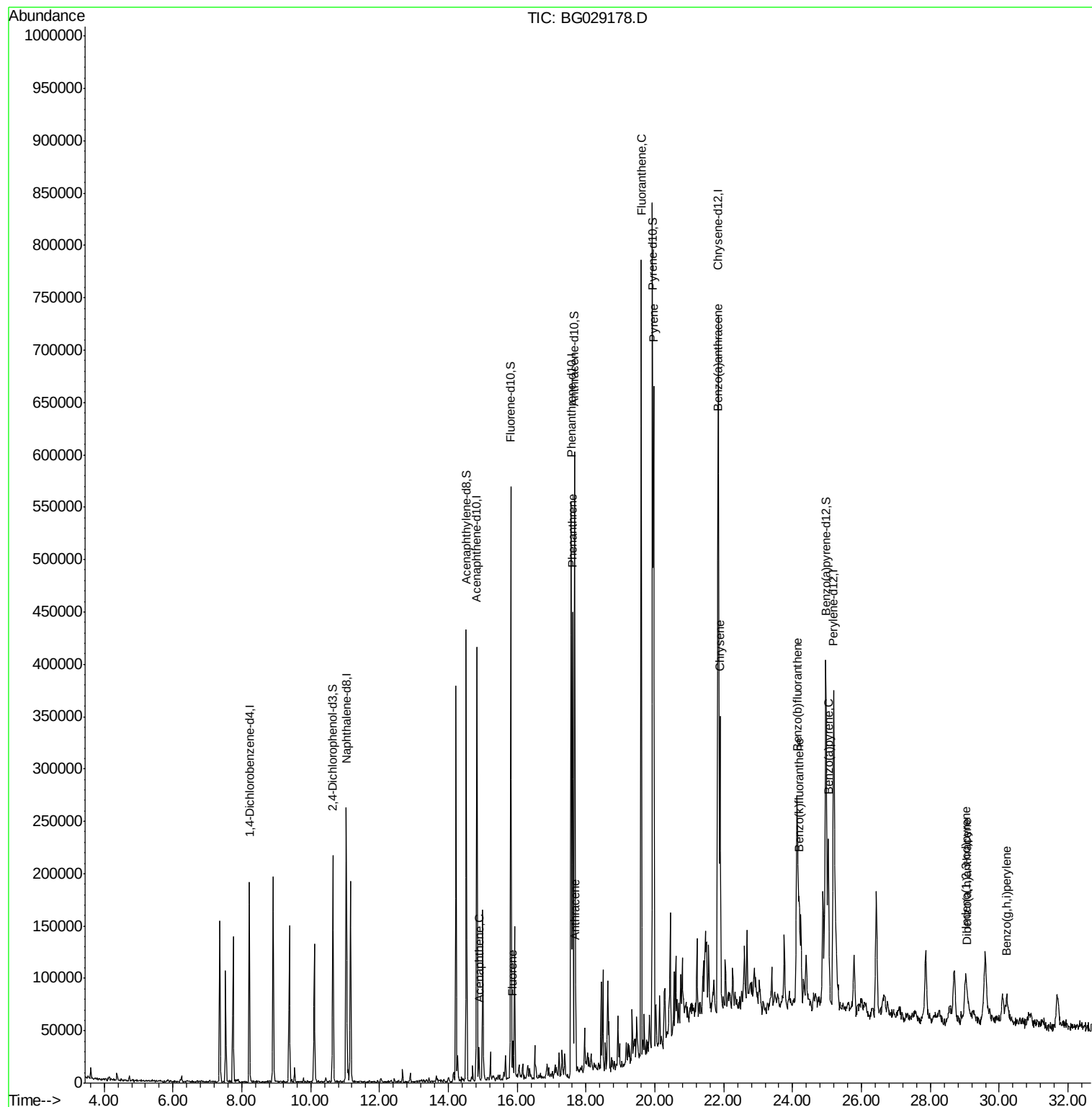
Data Path : Z:\HPCHEM1\BNA G\DATA\BG101317\  
Data File : BG029178.D  
Acq On : 11 Oct 2017 23:20  
Operator : SJ/JU  
Sample : I5668-12  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

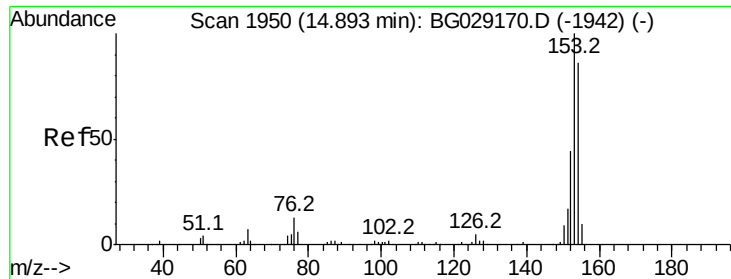
Instrument :  
BNA\_G  
ClientSampled :  
CB3H0

Manual Integrations  
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10/13/2017 12:08:14 PM

Quant Time: Oct 12 09:37:01 2017  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG101117.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Oct 11 04:24:22 2017  
Response via : Initial Calibration





#9

Acenaphthene

Concen: 1.366 ng/ul

RT: 14.89 min Scan# 1949

Delta R.T. -0.00 min

Lab File: BG029178.D

Acq: 11 Oct 2017 23:20

Instrument :

BNA\_G

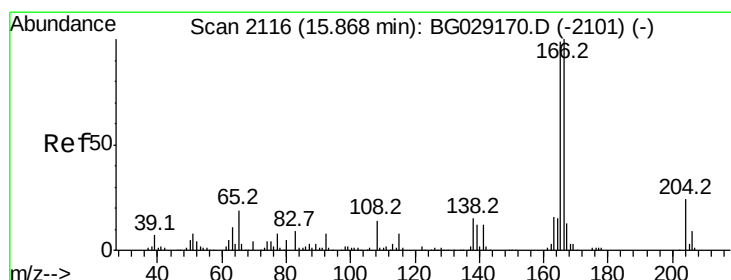
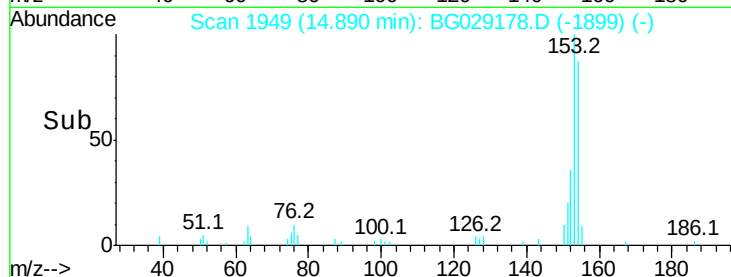
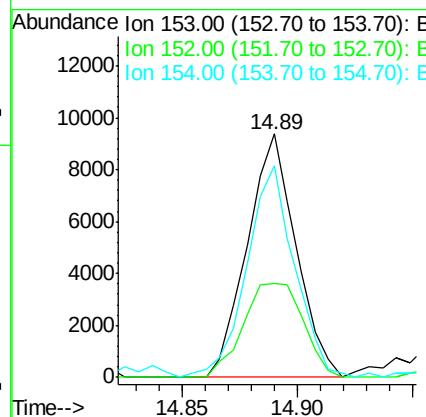
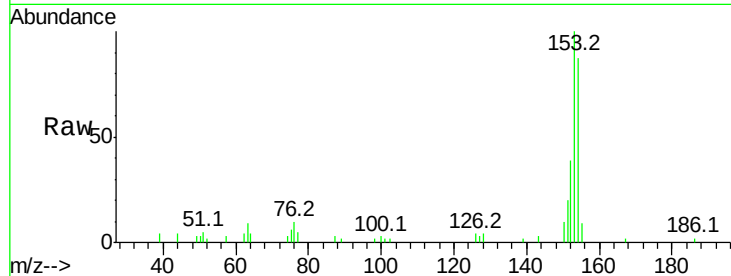
ClientSampleId :

CB3H0

|             |       |            |
|-------------|-------|------------|
| Tot Ion:153 | Resp: | 13759      |
| Ion Ratio   | Lower | Upper      |
| 153         | 100   |            |
| 152         | 38.8  | 36.2 54.4  |
| 154         | 86.9  | 68.4 102.6 |

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#11

Fluorene

Concen: 1.362 ng/ul

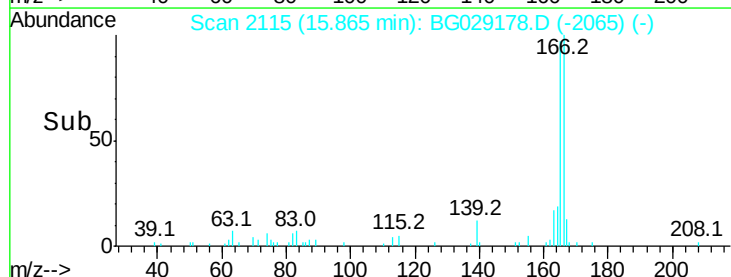
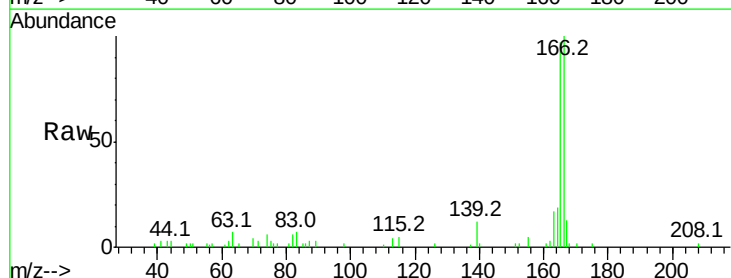
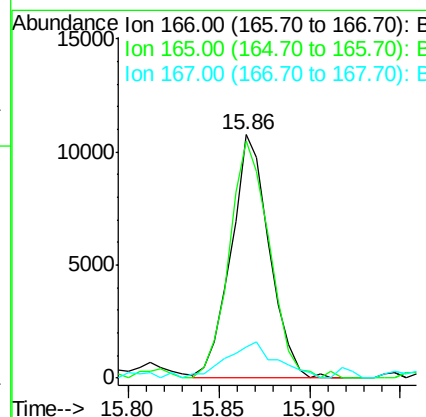
RT: 15.86 min Scan# 2115

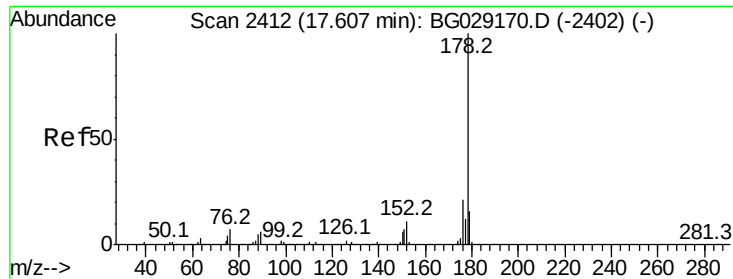
Delta R.T. -0.00 min

Lab File: BG029178.D

Acq: 11 Oct 2017 23:20

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:166 | Resp: | 15797      |
| Ion Ratio   | Lower | Upper      |
| 166         | 100   |            |
| 165         | 97.2  | 79.4 119.0 |
| 167         | 12.6  | 10.2 15.4  |





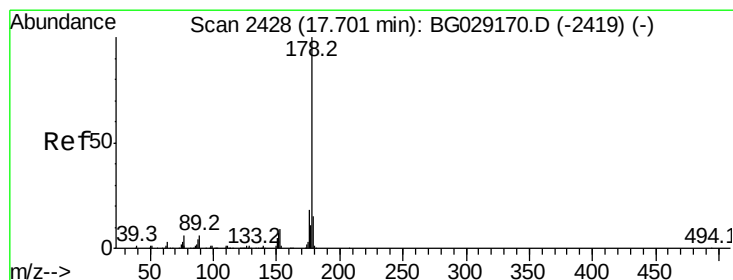
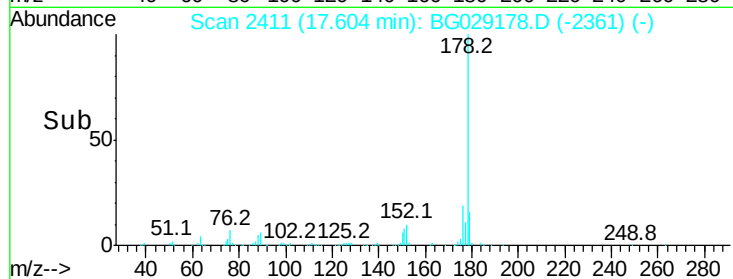
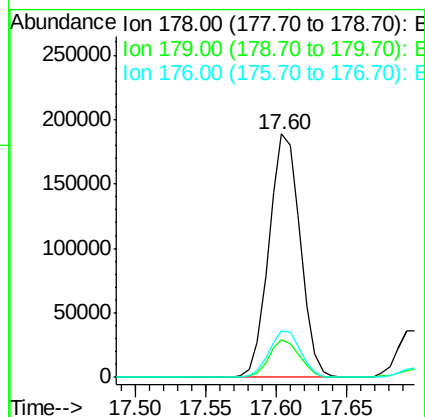
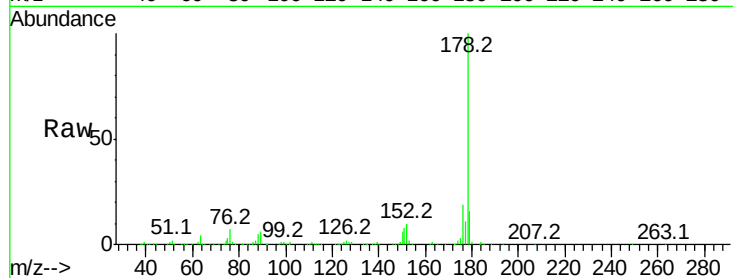
#14  
Phenanthrene  
Concen: 15.771 ng/ul  
RT: 17.60 min Scan# 2411  
Delta R.T. -0.00 min  
Lab File: BG029178.D  
Acq: 11 Oct 2017 23:20

Instrument :  
BNA\_G  
ClientSampled :  
CB3H0

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 292562    |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 15.7  | 12.2 18.2 |
| 176         | 18.9  | 15.0 22.6 |

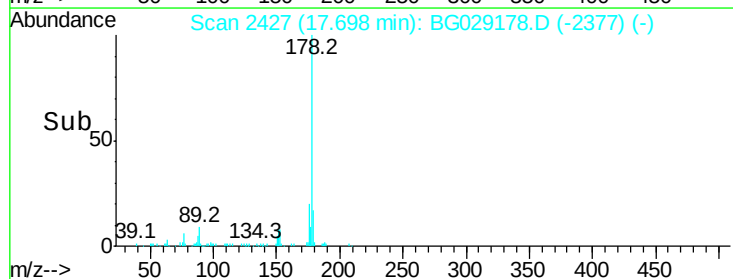
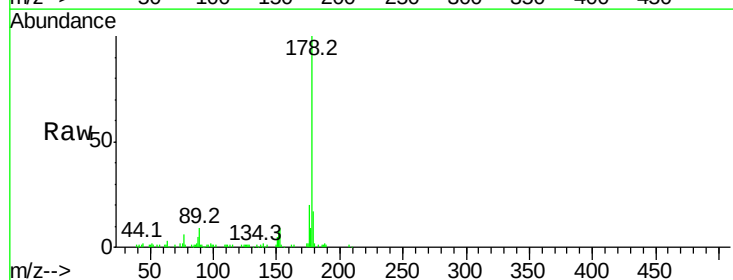
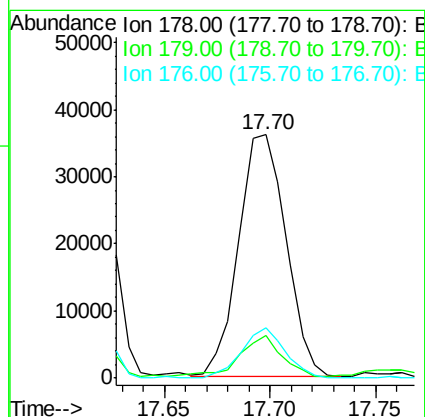
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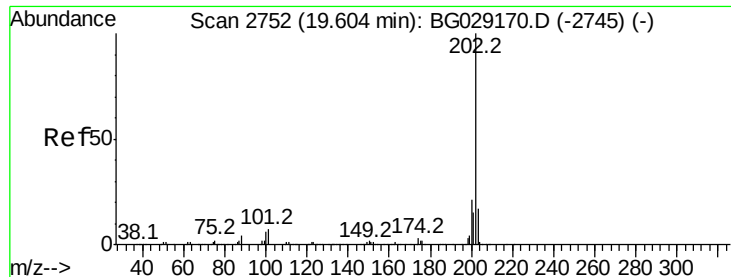
Sohil  
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#16  
Anthracene  
Concen: 2.937 ng/ul  
RT: 17.70 min Scan# 2427  
Delta R.T. -0.00 min  
Lab File: BG029178.D  
Acq: 11 Oct 2017 23:20

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:178 | Resp: | 55857     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 17.3  | 12.5 18.7 |
| 176         | 20.5  | 15.7 23.5 |





#17

Fluoranthene

Concen: 21.995 ng/ul

RT: 19.60 min Scan# 2751

Delta R.T. -0.00 min

Lab File: BG029178.D

Acq: 11 Oct 2017 23:20

Instrument :

BNA\_G

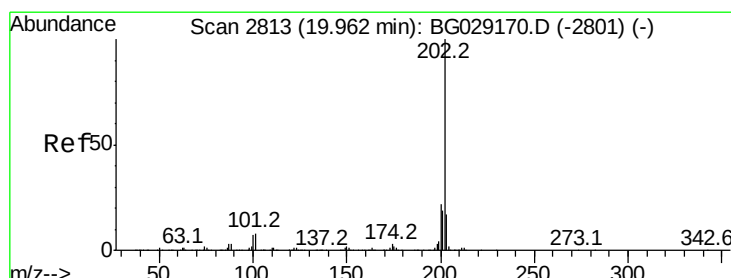
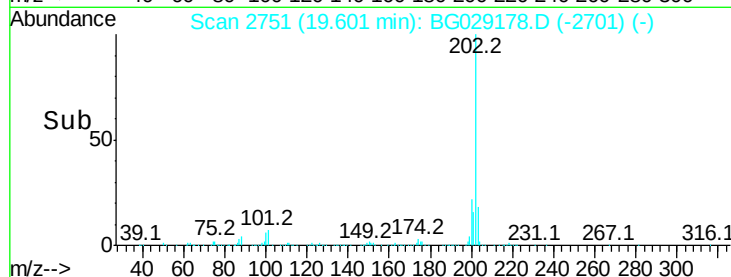
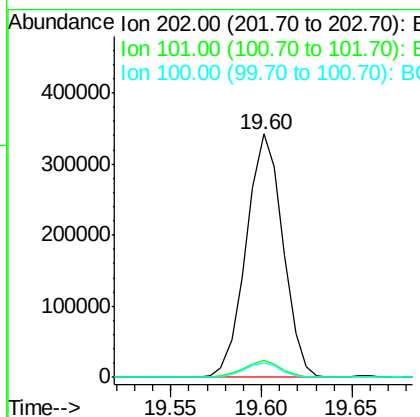
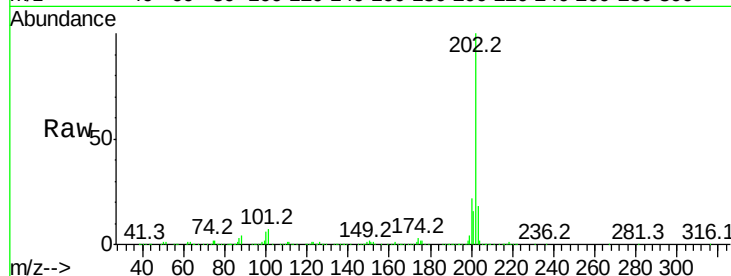
ClientSampled :

CB3H0

| Tot Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 202     | 100 |       | 480117 |       |       |
| 101     | 7.2 | 5.6   | 8.4    |       |       |
| 100     | 5.8 | 4.7   | 7.1    |       |       |

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#20

Pyrene

Concen: 18.206 ng/ul

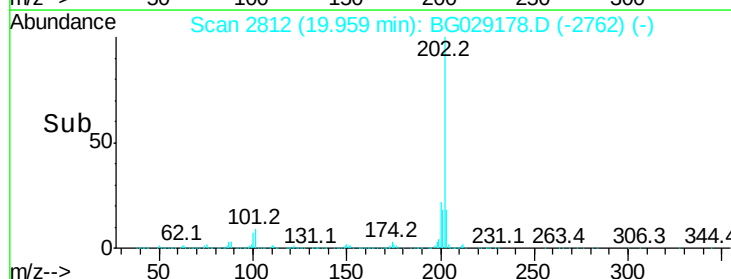
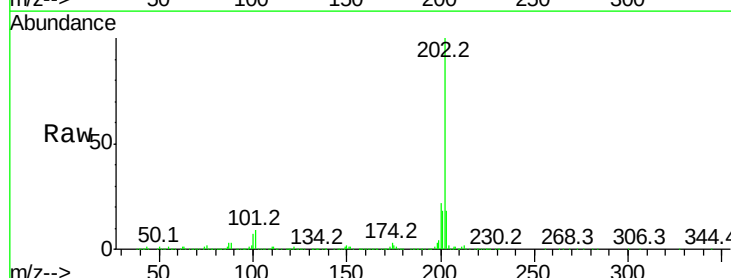
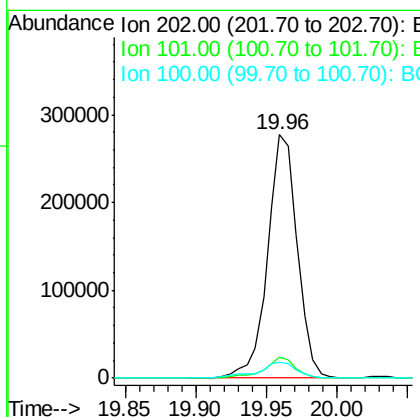
RT: 19.96 min Scan# 2812

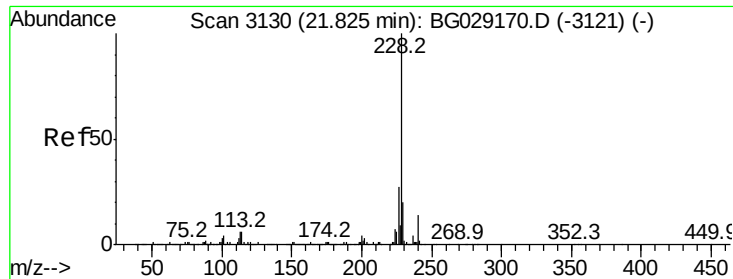
Delta R.T. -0.00 min

Lab File: BG029178.D

Acq: 11 Oct 2017 23:20

| Tgt Ion | Ion | Ratio | Resp   | Lower | Upper |
|---------|-----|-------|--------|-------|-------|
| 202     | 100 |       | 407183 |       |       |
| 101     | 8.8 | 6.5   | 9.7    |       |       |
| 100     | 6.6 | 5.5   | 8.3    |       |       |





#21

Benzo(a)anthracene

Concen: 10.573 ng/ul

RT: 21.82 min Scan# 3129

Delta R.T. -0.00 min

Lab File: BG029178.D

Acq: 11 Oct 2017 23:20

Instrument :

BNA\_G

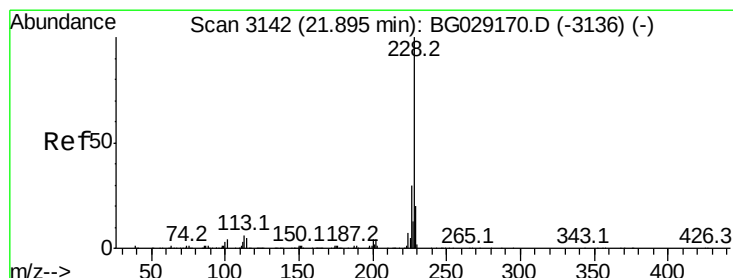
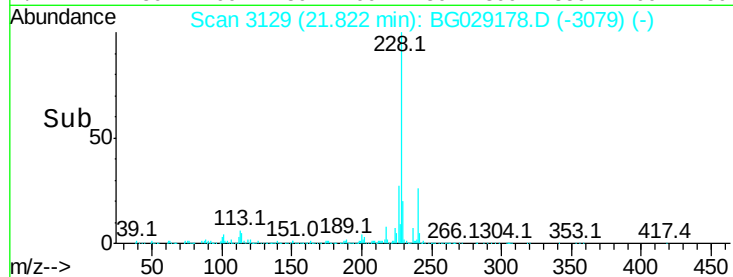
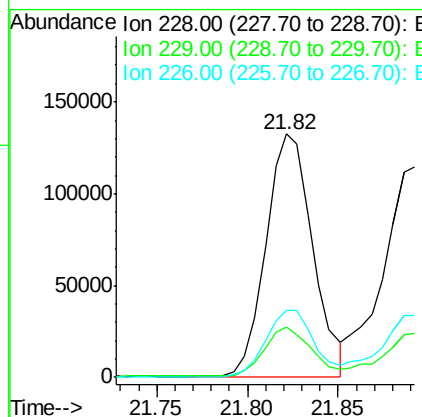
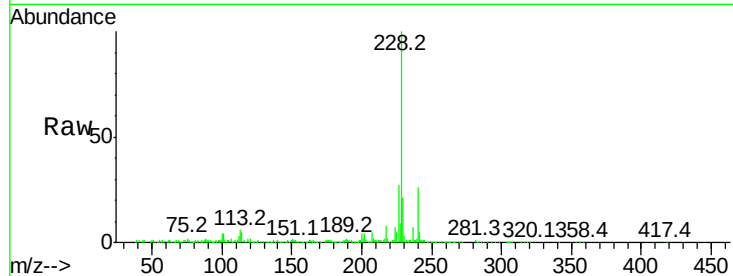
ClientSampled :

CB3H0

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 237619 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 229       | 20.8  | 15.8  | 23.8   |
| 226       | 27.5  | 21.6  | 32.4   |

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#22

Chrysene

Concen: 10.986 ng/ul

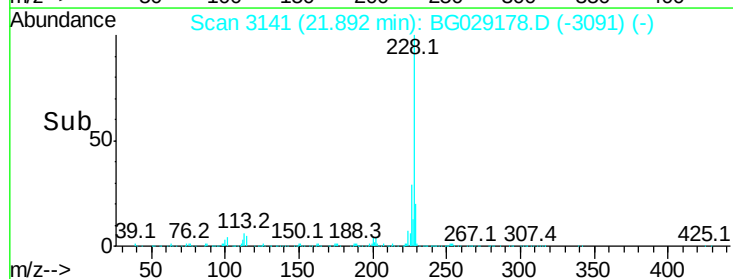
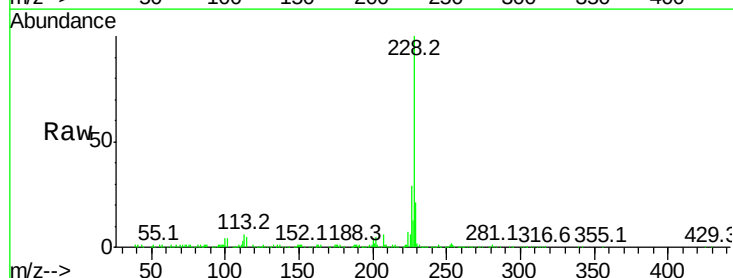
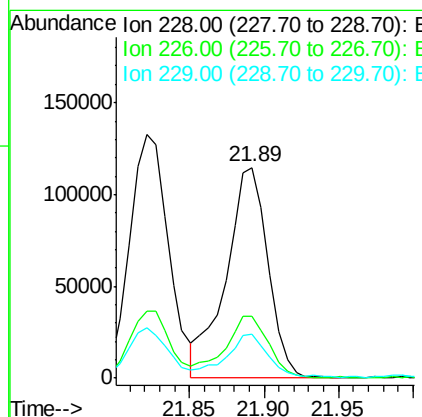
RT: 21.89 min Scan# 3141

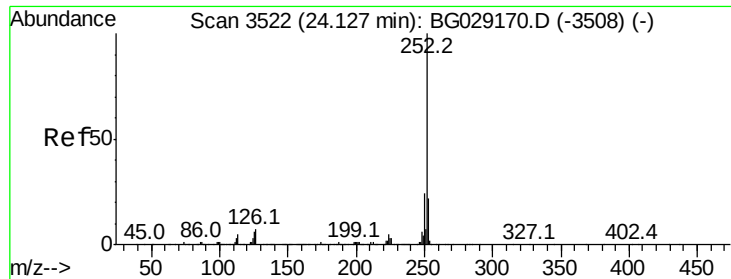
Delta R.T. -0.00 min

Lab File: BG029178.D

Acq: 11 Oct 2017 23:20

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 222878 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 29.1  | 23.4  | 35.0   |
| 229       | 20.7  | 15.7  | 23.5   |





#24

Benzo(b)fluoranthene

Concen: 13.002 ng/ul

RT: 24.13 min Scan# 3522

Delta R.T. 0.00 min

Lab File: BG029178.D

Acq: 11 Oct 2017 23:20

Instrument :

BNA\_G

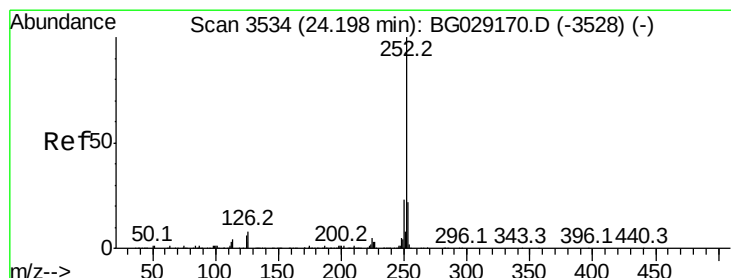
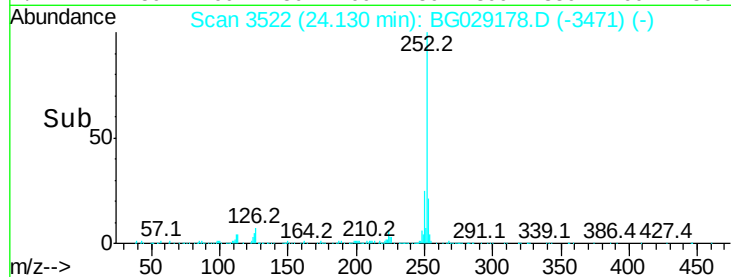
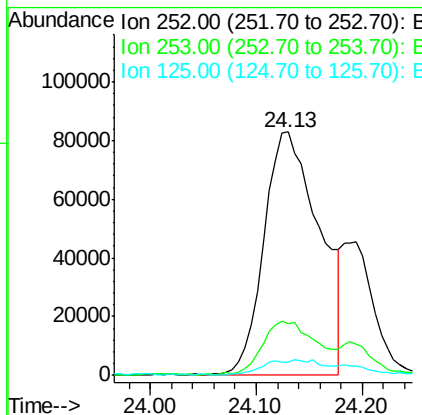
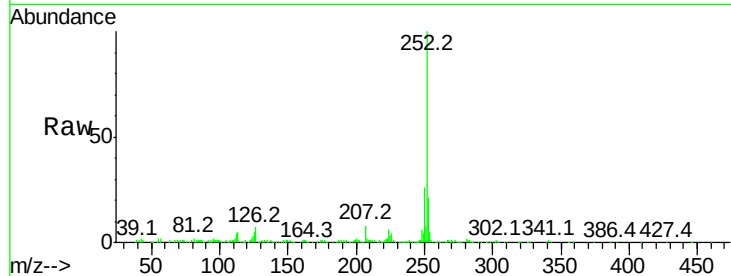
ClientSampled :

CB3H0

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 300945 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.0  | 17.6  | 26.4   |
| 125       | 5.2   | 4.5   | 6.7    |

Manual Integrations  
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#25

Benzo(k)fluoranthene

Concen: 3.998 ng/ul m

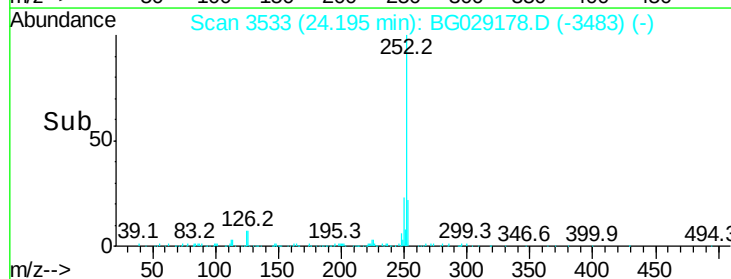
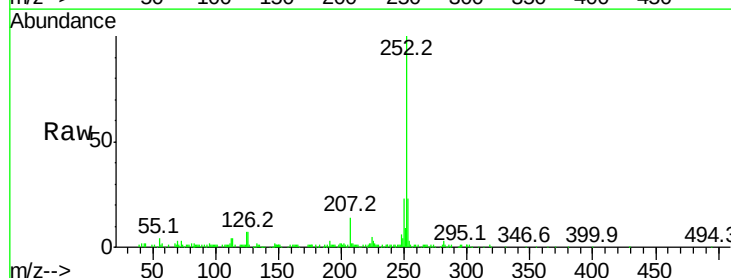
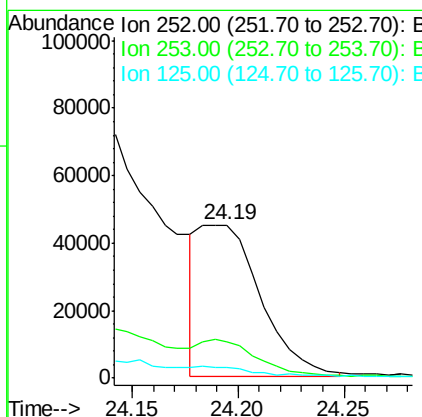
RT: 24.19 min Scan# 3533

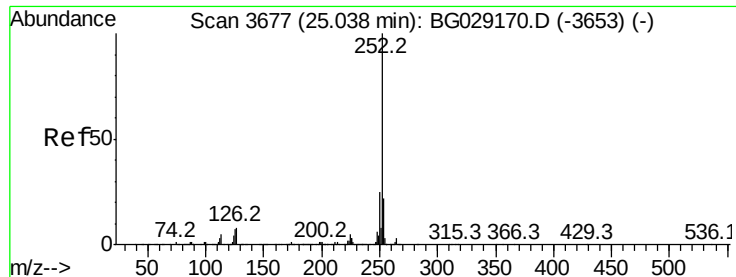
Delta R.T. -0.00 min

Lab File: BG029178.D

Acq: 11 Oct 2017 23:20

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 91152 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.4  | 16.8  | 25.2  |
| 125       | 7.2   | 5.1   | 7.7   |





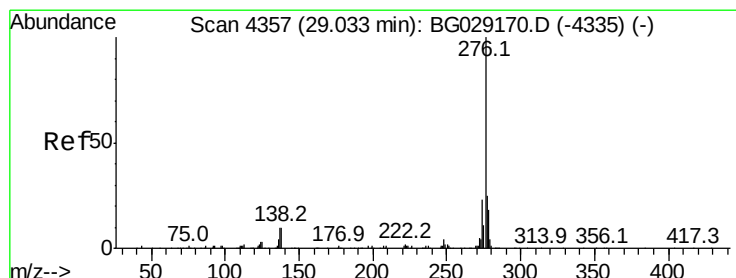
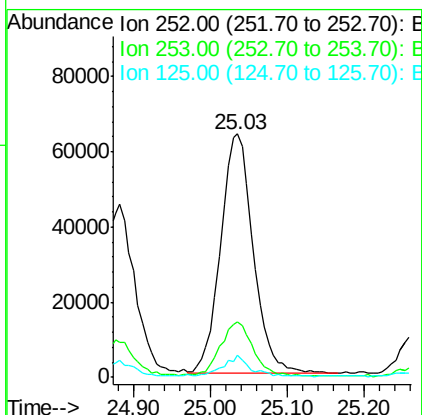
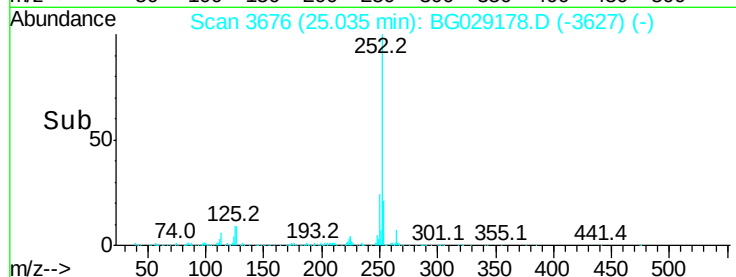
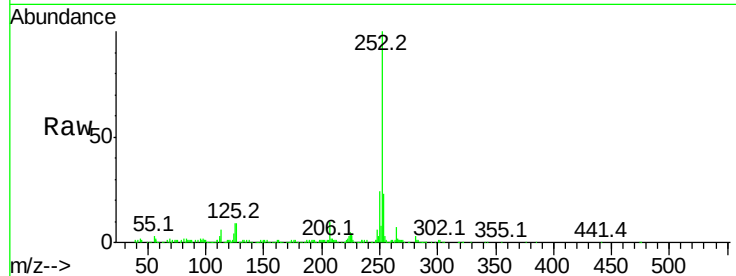
#27  
Benzo(a)pyrene  
Concen: 8.313 ng/ul  
RT: 25.03 min Scan# 3676  
Delta R.T. -0.01 min  
Lab File: BG029178.D  
Acq: 11 Oct 2017 23:20

Instrument :  
BNA\_G  
ClientSampleId :  
CB3H0

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 17.6  | 26.4  |
| 125     | 9.1   | 5.4   | 8.2   |

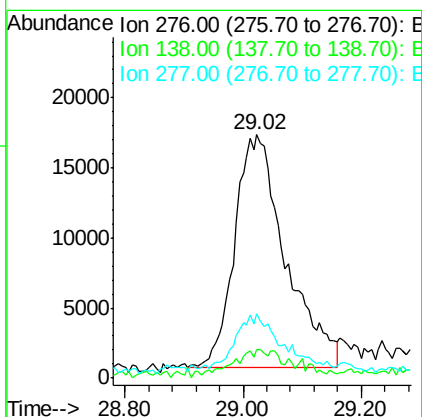
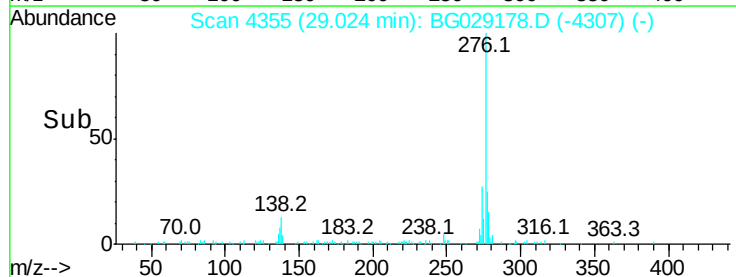
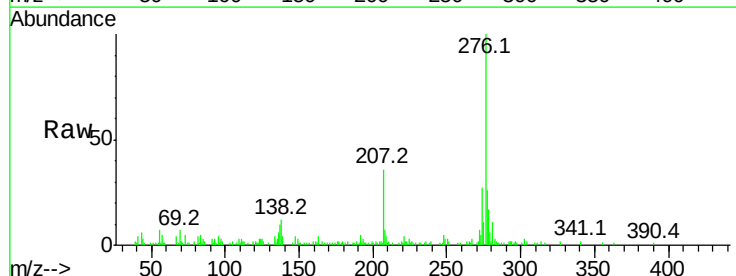
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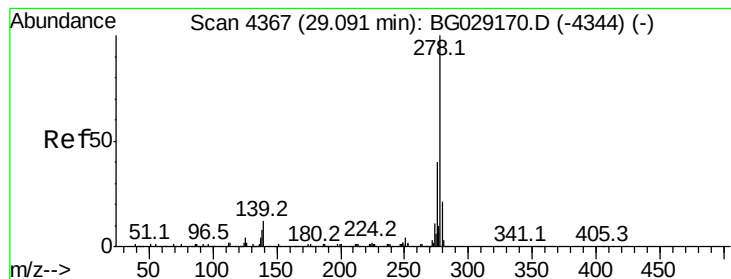


#28  
Indeno(1,2,3-cd)pyrene  
Concen: 4.641 ng/ul  
RT: 29.02 min Scan# 4355  
Delta R.T. -0.02 min  
Lab File: BG029178.D  
Acq: 11 Oct 2017 23:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 11.7  | 9.5   | 14.3  |
| 277     | 26.2  | 18.1  | 27.1  |







#29

Dibenzo(a,h)anthracene

Concen: 1.406 ng/ul m

RT: 29.07 min Scan# 4363

Delta R.T. -0.03 min

Lab File: BG029178.D

Acq: 11 Oct 2017 23:20

Instrument :

BNA\_G

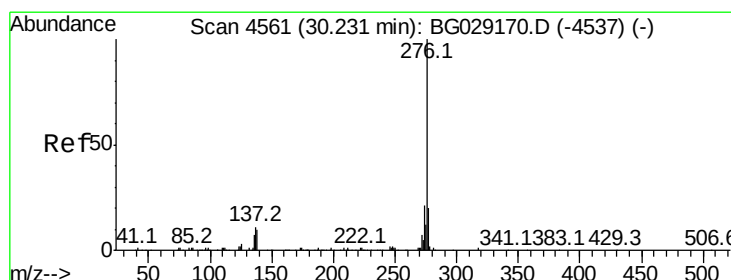
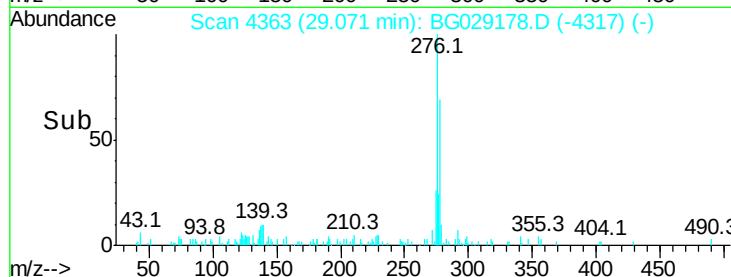
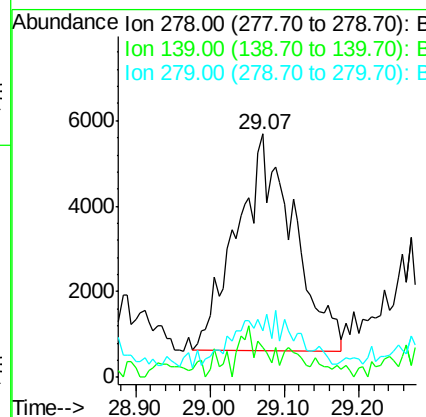
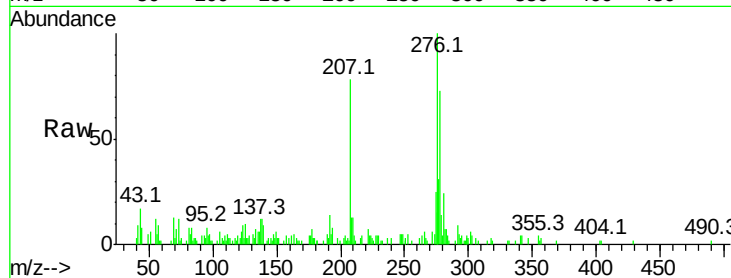
ClientSampleId :

CB3H0

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 278   | Resp: | 26863 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 12.3  | 8.3   | 12.5  |
| 279       | 18.8  | 17.1  | 25.7  |

Manual Integrations  
APPROVED

Sohil  
10/13/2017 12:08:14 PM



#30

Benzo(g,h,i)perylene

Concen: 4.020 ng/ul

RT: 30.21 min Scan# 4557

Delta R.T. -0.03 min

Lab File: BG029178.D

Acq: 11 Oct 2017 23:20

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 60357 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 17.7  | 9.3   | 13.9# |
| 277       | 24.7  | 17.9  | 26.9  |

