

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101317\  
 Data File : BG029185.D  
 Acq On : 12 Oct 2017 4:02  
 Operator : SJ/JU  
 Sample : I5669-01  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CB3H9

Manual Integrations  
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Quant Time: Oct 12 10:11:00 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  | 53109    | 20.00 | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 11.03 | 136  | 299626   | 20.00 | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.82 | 164  | 193933   | 20.00 | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.56 | 188  | 352324   | 20.00 | ng/ul  | 0.00     |
| 18) Chrysene-d12            | 21.84 | 240  | 382372   | 20.00 | ng/ul  | 0.00     |
| 23) Perylene-d12            | 25.19 | 264  | 424484   | 20.00 | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 3) 2,4-Dichlorophenol-d3    | 10.64 | 165  | 86857    | 15.16 | ng/ul  | 0.00     |
| 7) Acenaphthylene-d8        | 14.52 | 160  | 377772   | 19.43 | ng/ul  | 0.00     |
| 10) Fluorene-d10            | 15.81 | 176  | 270926   | 17.76 | ng/ul  | 0.00     |
| 15) Anthracene-d10          | 17.66 | 188  | 332836   | 19.11 | ng/ul  | 0.00     |
| 19) Pyrene-d10              | 19.93 | 212  | 400191   | 19.92 | ng/ul  | 0.00     |
| 26) Benzo(a)pyrene-d12      | 24.95 | 264  | 401546   | 18.91 | ng/ul  | -0.01    |
| Target Compounds            |       |      |          |       |        |          |
|                             |       |      |          |       | Qvalue |          |
| 14) Phenanthrene            | 17.61 | 178  | 112962   | 5.919 | ng/ul  | 97       |
| 16) Anthracene              | 17.70 | 178  | 21768    | 1.113 | ng/ul  | 97       |
| 17) Fluoranthene            | 19.60 | 202  | 203104   | 9.044 | ng/ul  | 99       |
| 20) Pyrene                  | 19.96 | 202  | 170297   | 7.346 | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.82 | 228  | 104402   | 4.481 | ng/ul  | 99       |
| 22) Chrysene                | 21.89 | 228  | 96712    | 4.599 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 24.13 | 252  | 140552   | 5.374 | ng/ul# | 97       |
| 25) Benzo(k)fluoranthene    | 24.18 | 252  | 50380    | 1.955 | ng/ul# | 92       |
| 27) Benzo(a)pyrene          | 25.03 | 252  | 90099    | 3.529 | ng/ul# | 96       |
| 28) Indeno(1,2,3-cd)pyrene  | 29.02 | 276  | 42495m   | 1.746 | ng/ul  |          |
| 30) Benzo(g,h,i)perylene    | 30.21 | 276  | 28211    | 1.663 | ng/ul  | 96       |

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

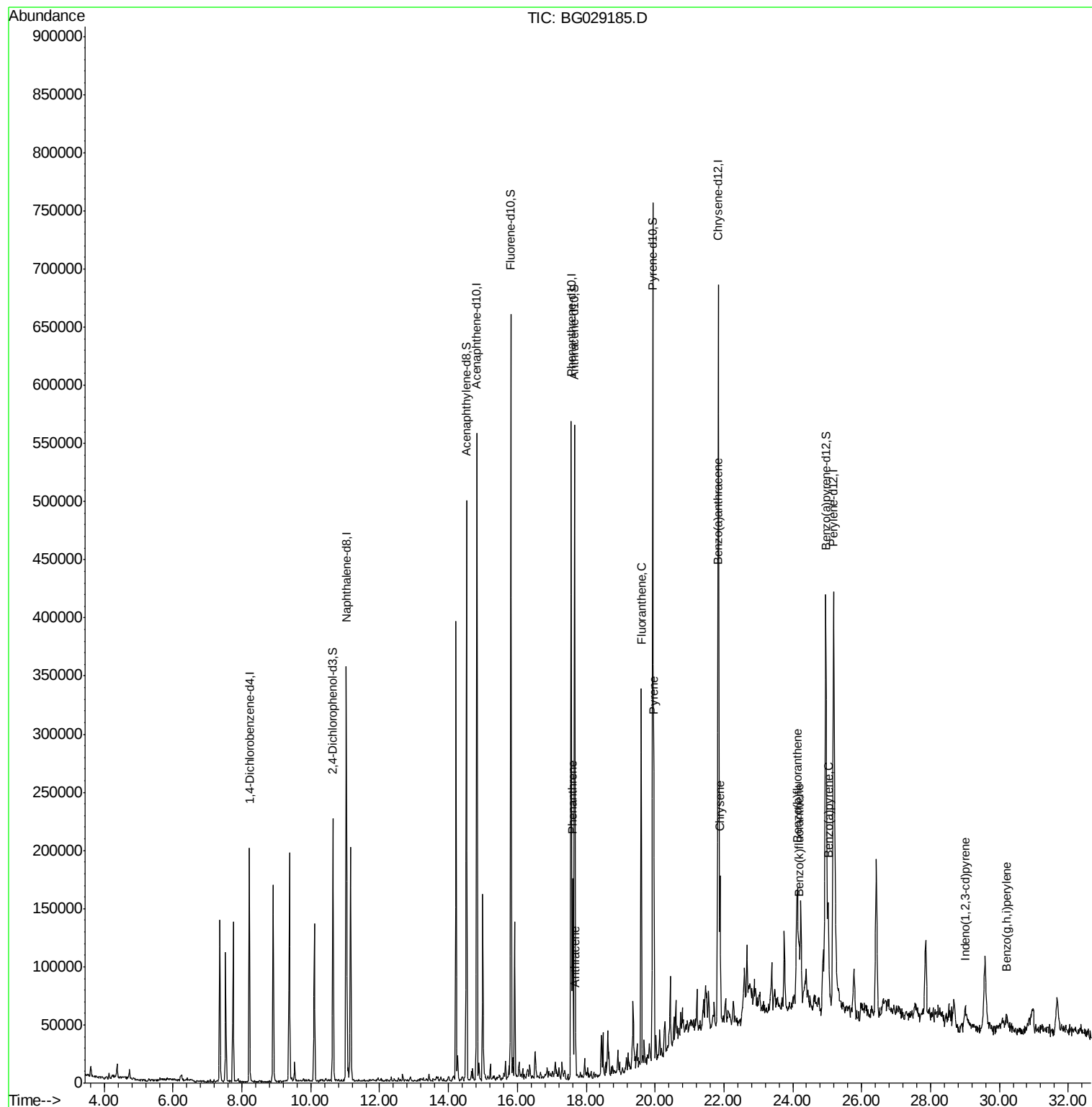
Data Path : Z:\HPCHEM1\BNA G\DATA\BG101317\  
Data File : BG029185.D  
Acq On : 12 Oct 2017 4:02  
Operator : SJ/JU  
Sample : I5669-01  
Misc :  
ALS Vial : 16 Sample Multiplier: 1

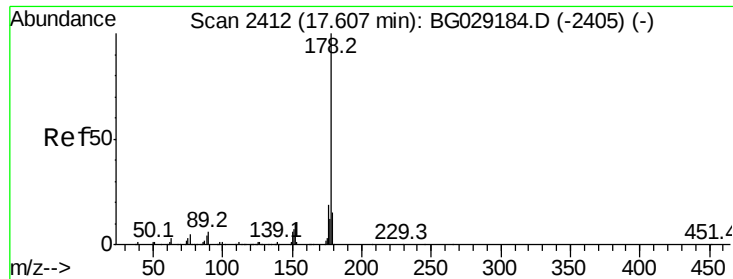
Instrument :  
BNA\_G  
ClientSampled :  
CB3H9

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Quant Time: Oct 12 10:11:00 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





#14

Phenanthrene

Concen: 5.919 ng/ul

RT: 17.61 min Scan# 2412

Delta R.T. -0.00 min

Lab File: BG029185.D

Acq: 12 Oct 2017 4:02

Instrument :

BNA\_G

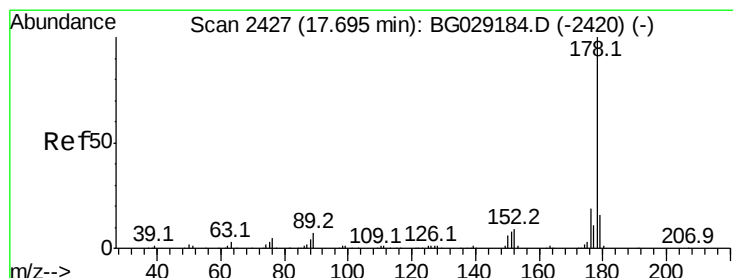
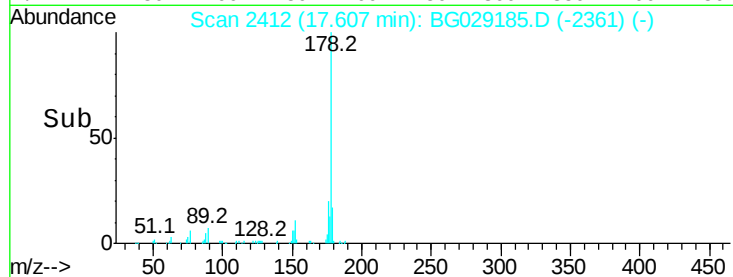
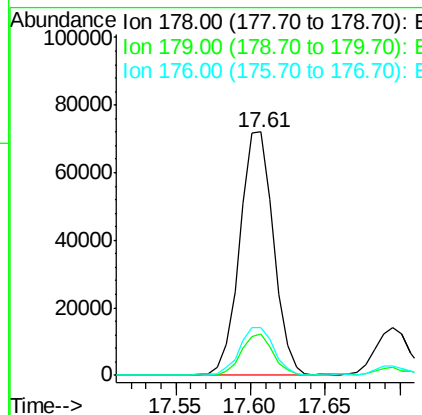
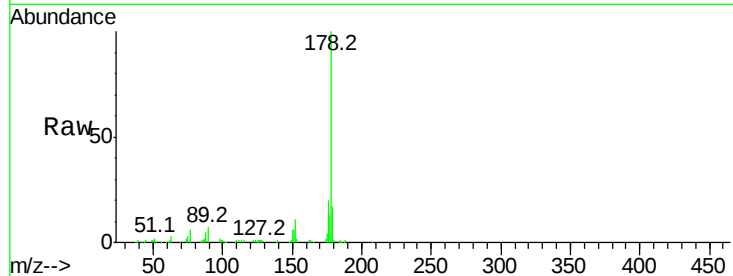
ClientSampled :

CB3H9

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 112962 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 16.9  | 12.2  | 18.2   |
| 176       | 19.7  | 15.0  | 22.6   |

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#16

Anthracene

Concen: 1.113 ng/ul

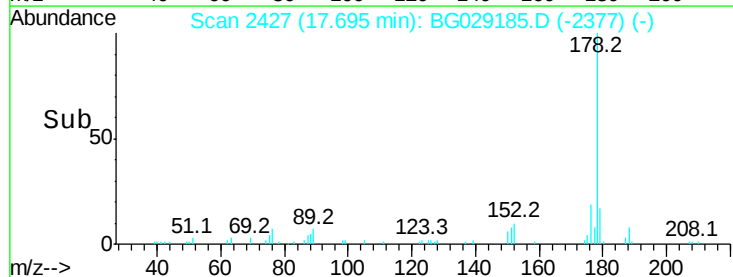
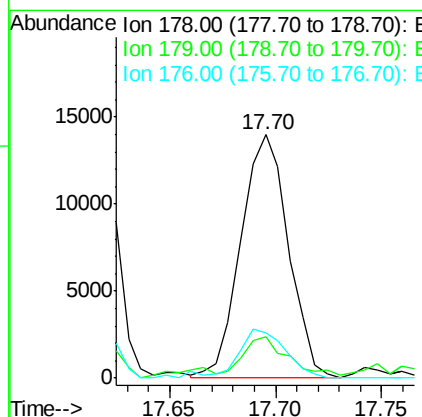
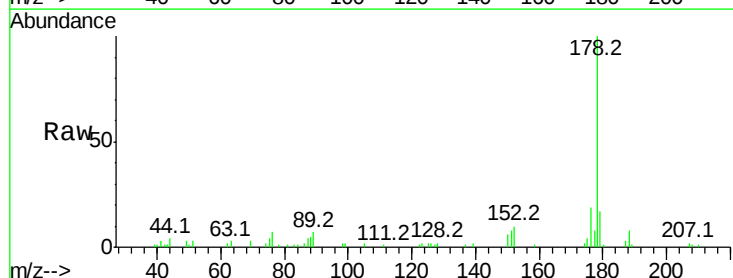
RT: 17.70 min Scan# 2427

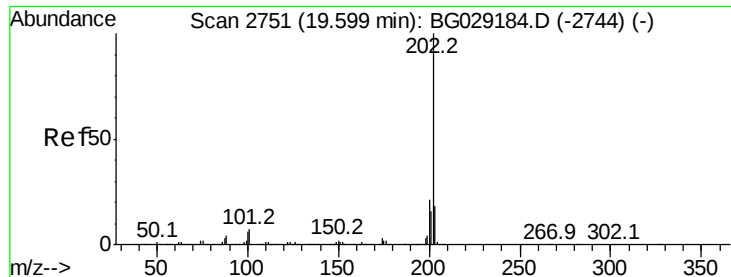
Delta R.T. -0.01 min

Lab File: BG029185.D

Acq: 12 Oct 2017 4:02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 21768 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 17.2  | 12.5  | 18.7  |
| 176       | 18.7  | 15.7  | 23.5  |





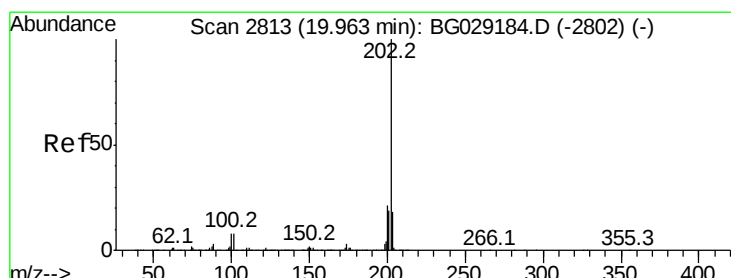
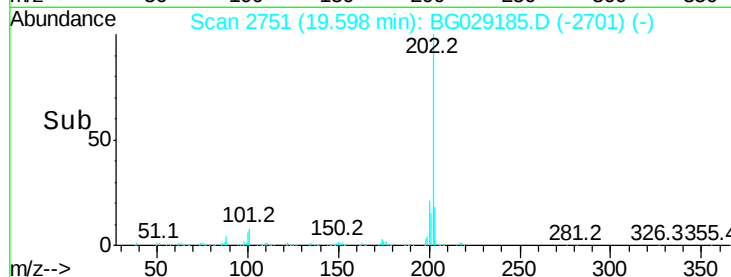
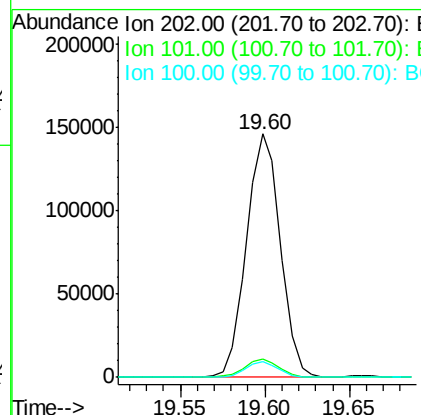
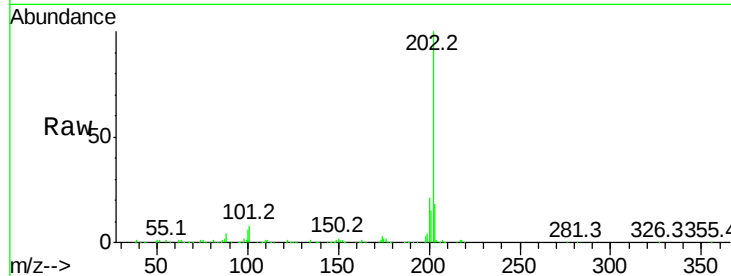
#17  
**Fluoranthene**  
 Concen: 9.044 ng/ul  
 RT: 19.60 min Scan# 2751  
 Delta R.T. -0.01 min  
 Lab File: BG029185.D  
 Acq: 12 Oct 2017 4:02

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CB3H9

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 7.5   | 5.6        | 8.4   |
| 100     | 6.4   | 4.7        | 7.1   |

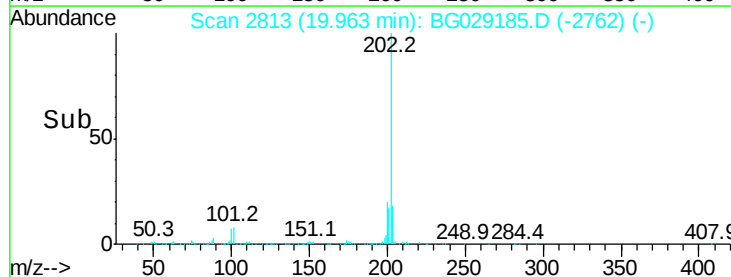
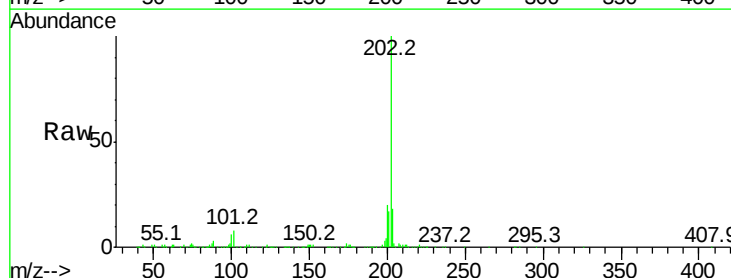
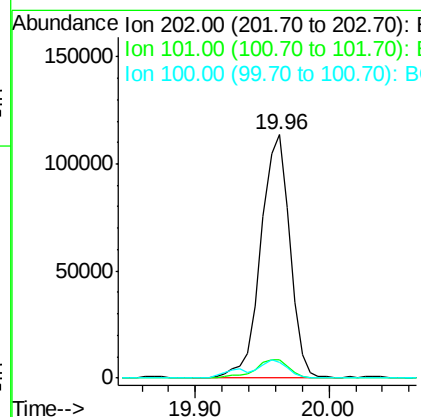
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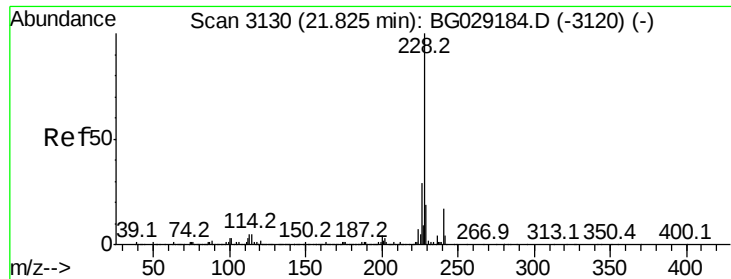
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#20  
**Pyrene**  
 Concen: 7.346 ng/ul  
 RT: 19.96 min Scan# 2813  
 Delta R.T. -0.00 min  
 Lab File: BG029185.D  
 Acq: 12 Oct 2017 4:02

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 7.6   | 6.5        | 9.7   |
| 100     | 6.5   | 5.5        | 8.3   |





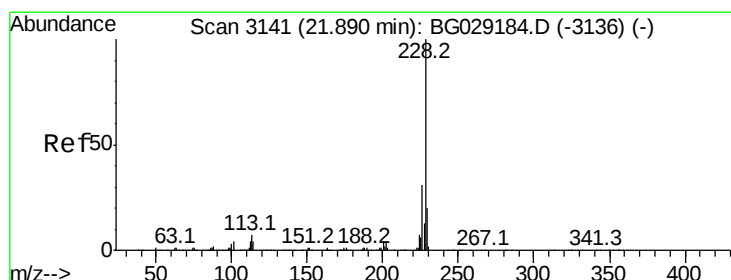
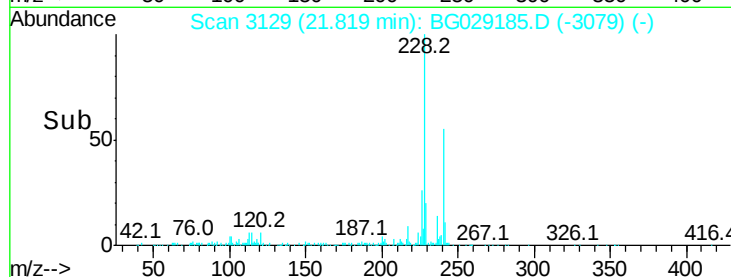
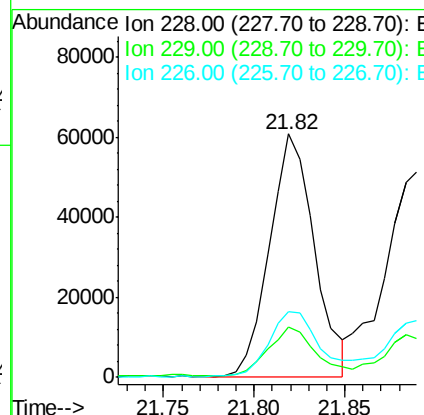
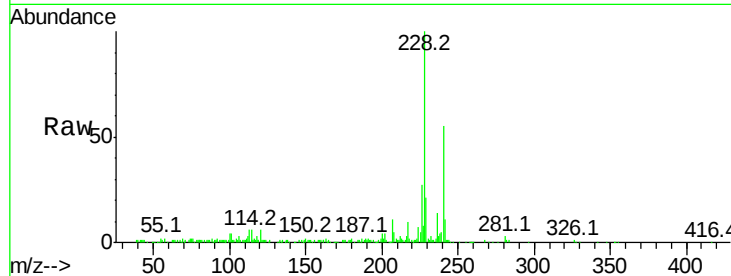
#21  
Benzo(a)anthracene  
Concen: 4.481 ng/ul  
RT: 21.82 min Scan# 3129  
Delta R.T. -0.01 min  
Lab File: BG029185.D  
Acq: 12 Oct 2017 4:02

Instrument :  
BNA\_G  
ClientSampleId :  
CB3H9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.7  | 15.8  | 23.8  |
| 226     | 27.0  | 21.6  | 32.4  |

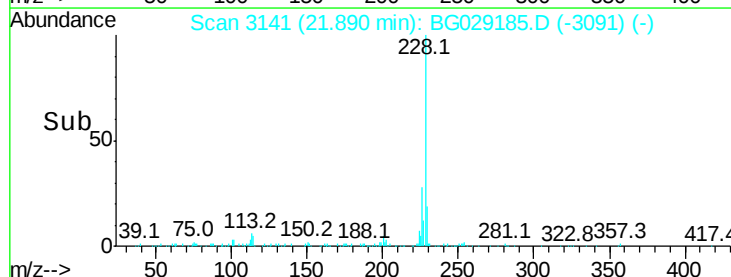
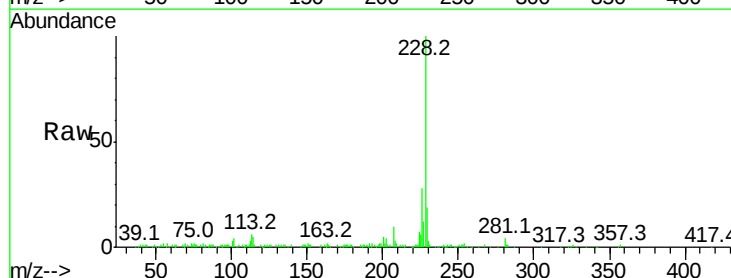
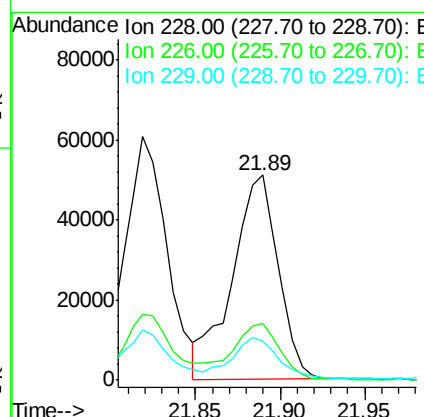
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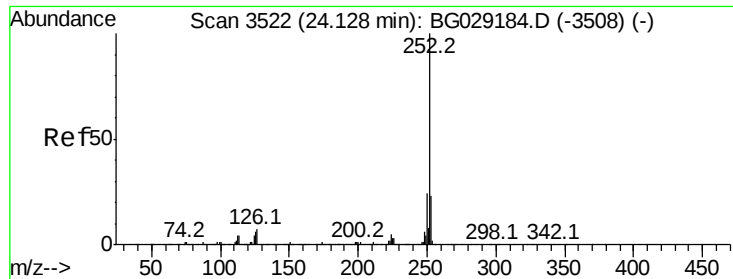
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#22  
Chrysene  
Concen: 4.599 ng/ul  
RT: 21.89 min Scan# 3141  
Delta R.T. -0.01 min  
Lab File: BG029185.D  
Acq: 12 Oct 2017 4:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.9  | 23.4  | 35.0  |
| 229     | 19.2  | 15.7  | 23.5  |





#24

Benzo(b)fluoranthene

Concen: 5.374 ng/ul

RT: 24.13 min Scan# 3522

Delta R.T. -0.00 min

Lab File: BG029185.D

Acq: 12 Oct 2017 4:02

Instrument :

BNA\_G

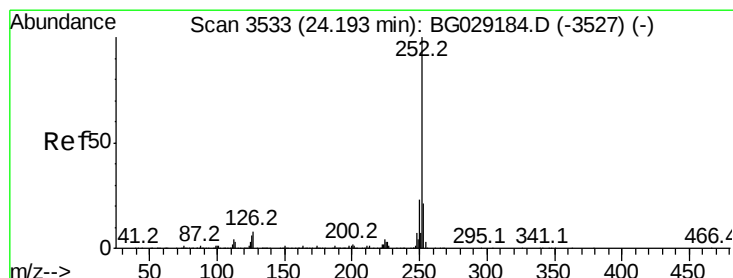
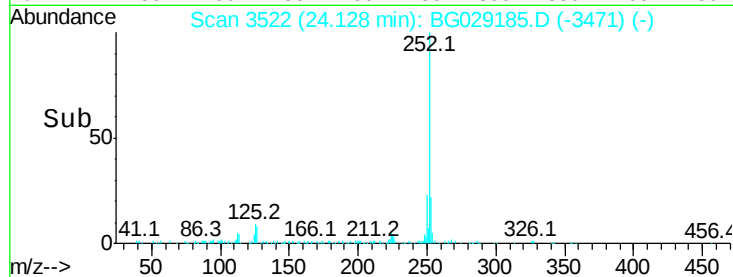
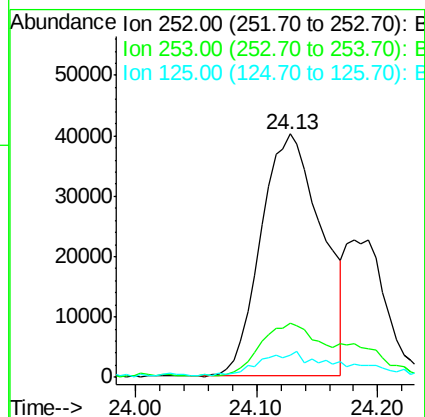
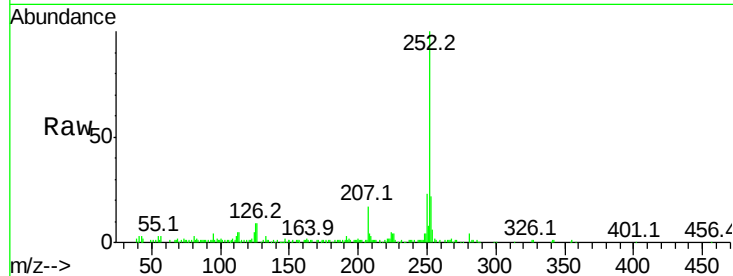
ClientSampled :

CB3H9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.5  | 17.6  | 26.4  |
| 125     | 9.3   | 4.5   | 6.7#  |

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#25

Benzo(k)fluoranthene

Concen: 1.955 ng/ul

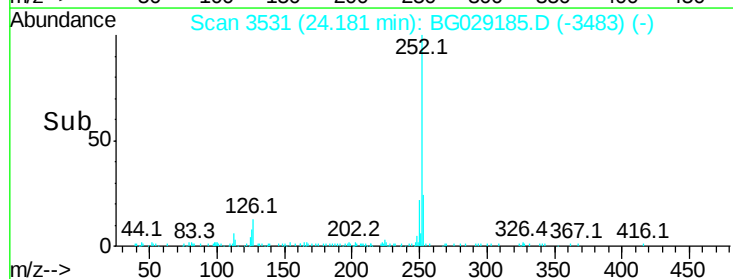
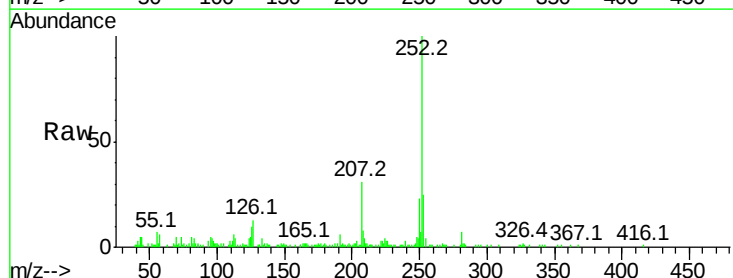
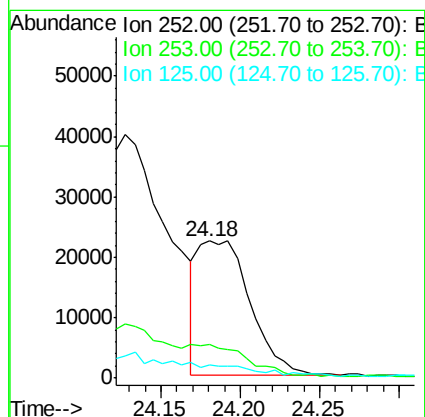
RT: 24.18 min Scan# 3531

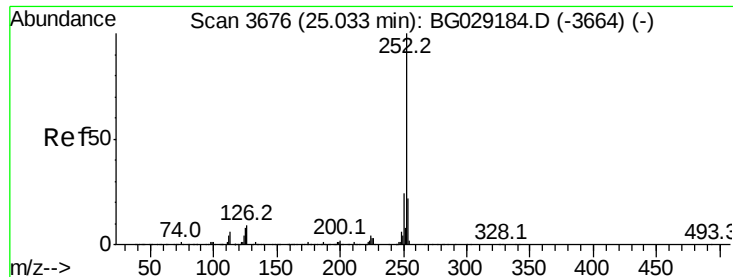
Delta R.T. -0.02 min

Lab File: BG029185.D

Acq: 12 Oct 2017 4:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.8  | 16.8  | 25.2  |
| 125     | 9.6   | 5.1   | 7.7#  |





#27

Benzo(a)pyrene

Concen: 3.529 ng/ul

RT: 25.03 min Scan# 3676

Delta R.T. -0.01 min

Lab File: BG029185.D

Acq: 12 Oct 2017 4:02

Instrument :

BNA\_G

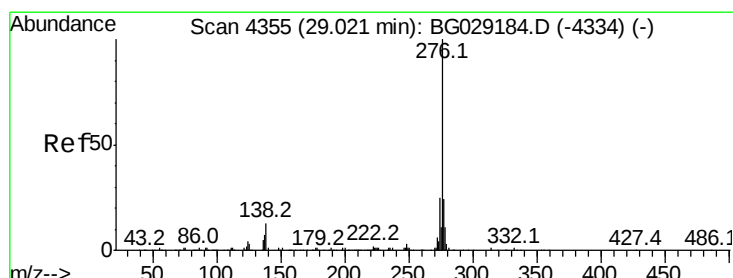
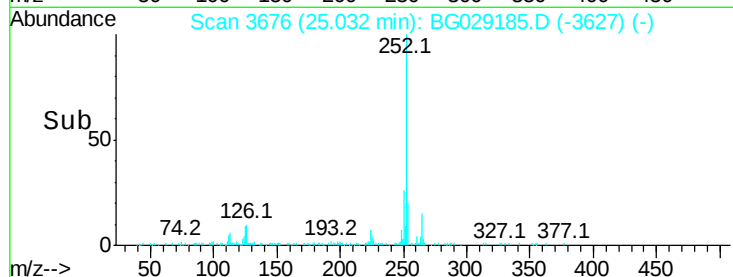
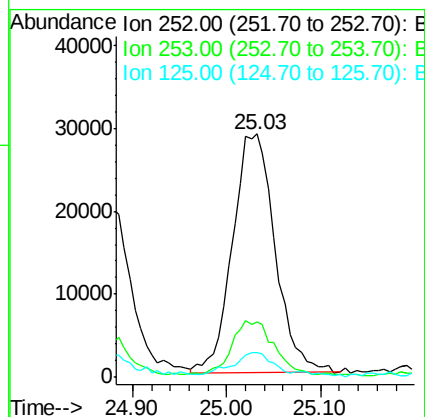
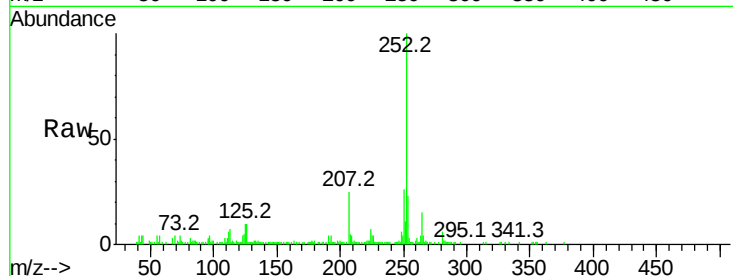
ClientSampleId :

CB3H9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 17.6  | 26.4  |
| 125     | 10.2  | 5.4   | 8.2#  |

Manual Integrations  
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#28

Indeno(1,2,3-cd)pyrene

Concen: 1.746 ng/ul m

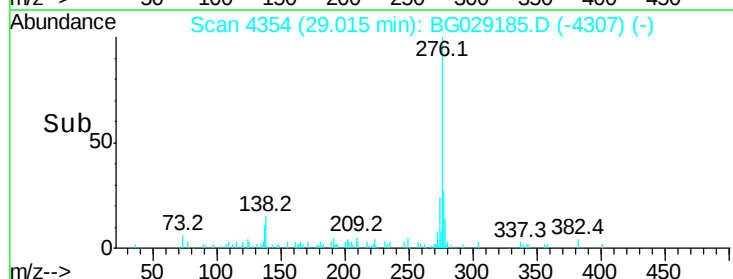
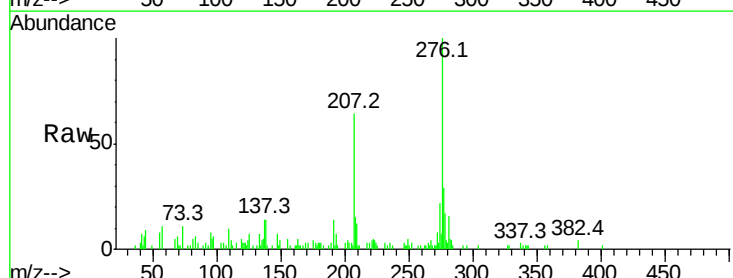
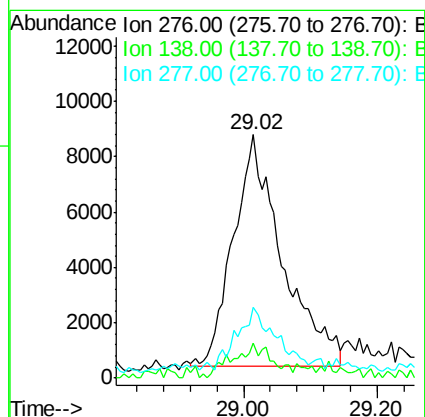
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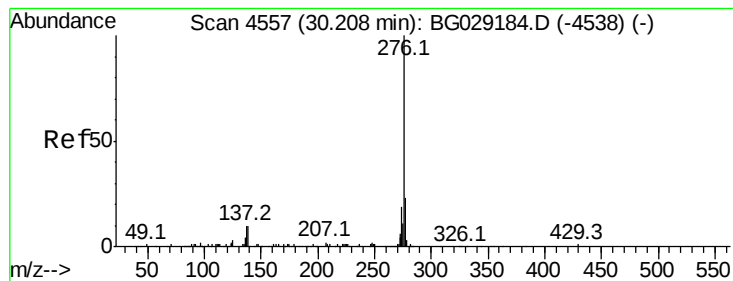
Delta R.T. -0.02 min

Lab File: BG029185.D

Acq: 12 Oct 2017 4:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 14.4  | 9.5   | 14.3# |
| 277     | 29.1  | 18.1  | 27.1# |





#30

Benzo(a,h,i)perylene

Concen: 1.663 ng/ul

RT: 30.21 min Scan# 4558

Delta R.T. -0.02 min

Lab File: BG029185.D

Acq: 12 Oct 2017 4:02

Instrument :

BNA\_G

ClientSampleId :

CB3H9

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 28211 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 13.3  | 9.3   | 13.9  |
| 277       | 24.6  | 17.9  | 26.9  |

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