

Data Path : Z:\HPCHEM1\BNA G\DATA\BG112017\  
 Data File : BG031137.D  
 Acq On : 20 Nov 2017 19:07  
 Operator : SJ/JU  
 Sample : I6475-09  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 B0G33

Manual Integrations  
 APPROVED

Sohil  
 11/21/2017 2:27:28 PM

Quant Time: Nov 21 06:56:01 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG111617-PAH.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Nov 21 05:01:30 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.14  | 152  | 63414    | 20.00 | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.95 | 136  | 307805   | 20.00 | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.76 | 164  | 206596   | 20.00 | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.50 | 188  | 493636   | 20.00 | ng/ul  | 0.00     |
| 18) Chrysene-d12            | 21.77 | 240  | 509477   | 20.00 | ng/ul  | -0.02    |
| 23) Perylene-d12            | 25.07 | 264  | 504564   | 20.00 | ng/ul  | -0.04    |
| System Monitoring Compounds |       |      |          |       |        |          |
| 3) 2,4-Dichlorophenol-d3    | 10.58 | 165  | 133704   | 23.02 | ng/uL  | 0.00     |
| 7) Acenaphthylene-d8        | 14.45 | 160  | 601275   | 27.99 | ng/ul  | 0.00     |
| 10) Fluorene-d10            | 15.75 | 176  | 447441   | 25.93 | ng/ul  | 0.00     |
| 15) Anthracene-d10          | 17.60 | 188  | 686736   | 27.79 | ng/ul  | 0.00     |
| 19) Pyrene-d10              | 19.87 | 212  | 785826   | 33.76 | ng/ul  | 0.00     |
| 26) Benzo(a)pyrene-d12      | 24.85 | 264  | 738856   | 29.60 | ng/ul  | -0.03    |
| Target Compounds            |       |      |          |       |        |          |
| 14) Phenanthrene            | 17.54 | 178  | 75908    | 2.865 | ng/ul  | 99       |
| 17) Fluoranthene            | 19.54 | 202  | 101660   | 2.758 | ng/ul# | 88       |
| 20) Pyrene                  | 19.90 | 202  | 141504   | 5.233 | ng/ul# | 88       |
| 21) Benzo(a)anthracene      | 21.75 | 228  | 57185    | 1.842 | ng/ul  | 93       |
| 22) Chrysene                | 21.82 | 228  | 66927    | 2.267 | ng/ul  | 98       |
| 24) Benzo(b)fluoranthene    | 24.02 | 252  | 61037    | 2.002 | ng/ul# | 95       |
| 27) Benzo(a)pyrene          | 24.91 | 252  | 51557m   | 1.764 | ng/ul  |          |
| 30) Benzo(g,h,i)perylene    | 30.03 | 276  | 30650m   | 1.105 | ng/ul  |          |

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

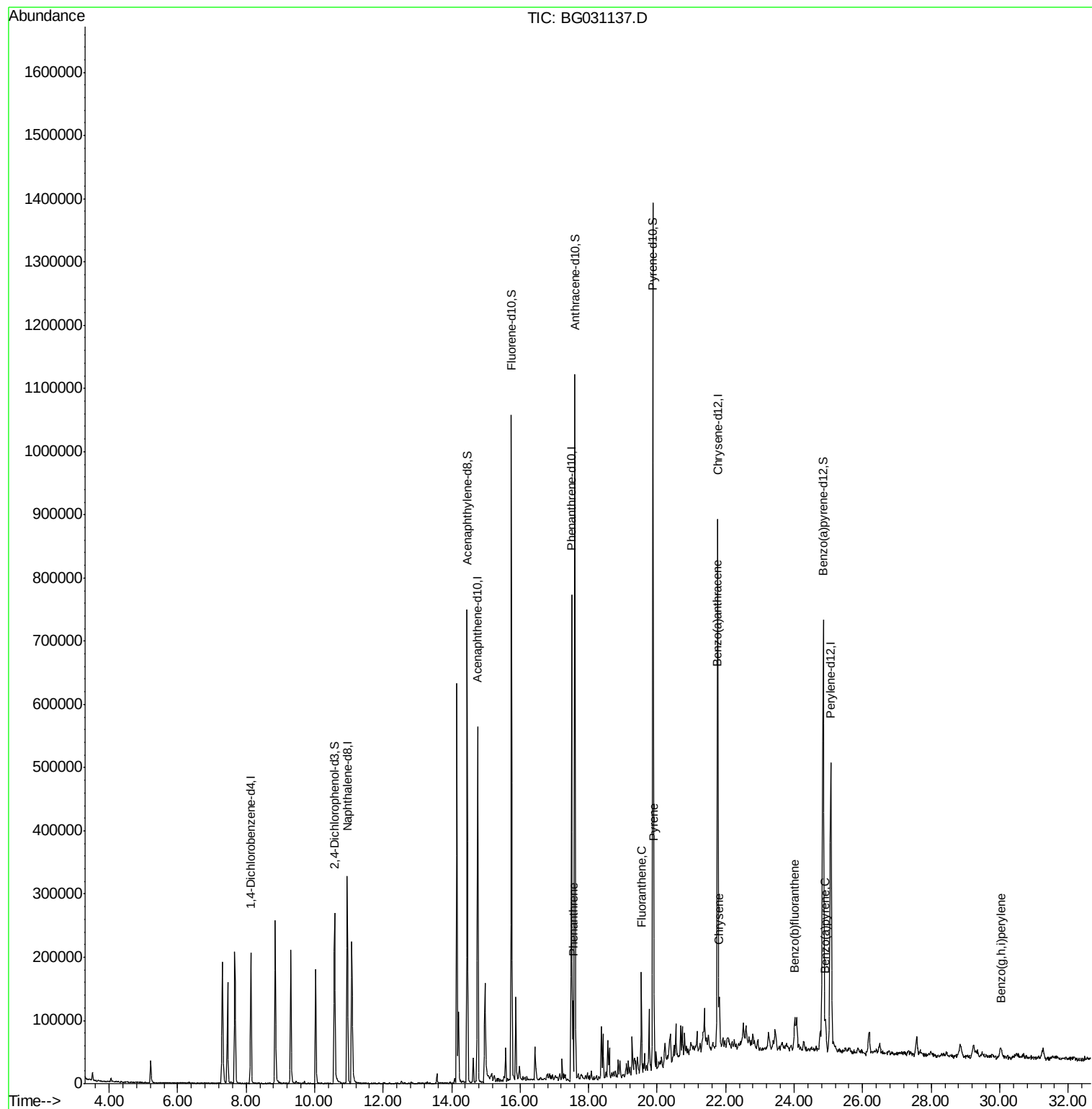
Data Path : Z:\HPCHEM1\BNA G\DATA\BG112017\  
Data File : BG031137.D  
Acq On : 20 Nov 2017 19:07  
Operator : SJ/JU  
Sample : I6475-09  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

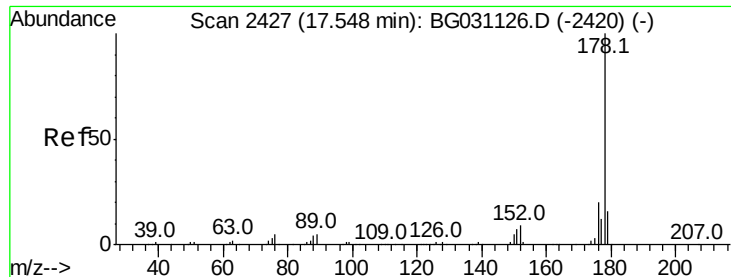
Instrument :  
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ClientSampleId :  
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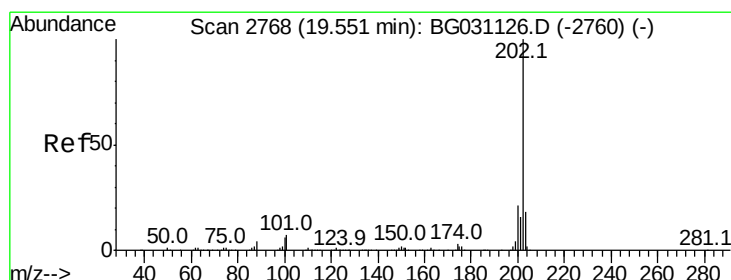
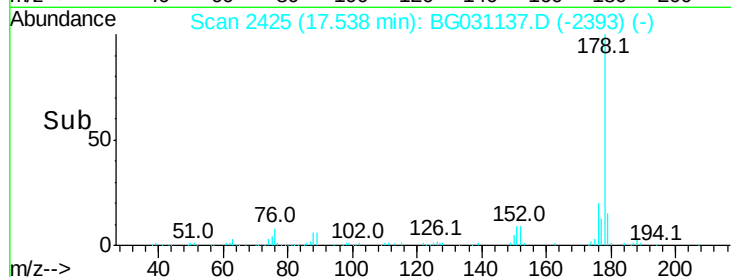
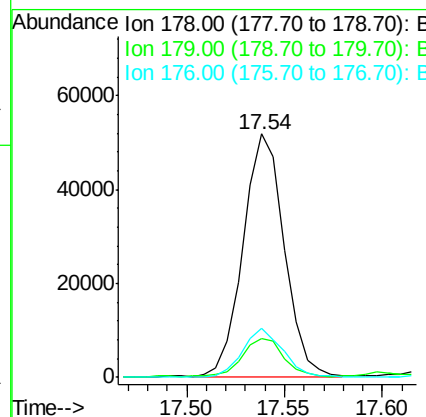
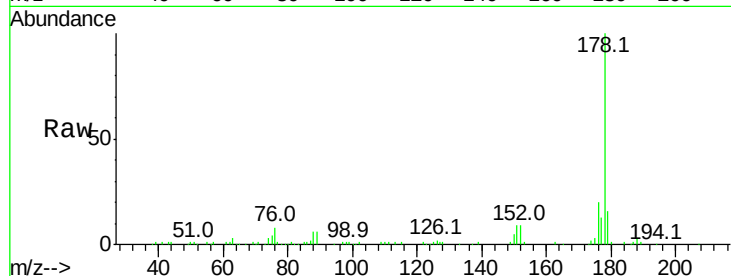
#14  
 Phenanthrene  
 Concen: 2.865 ng/ul  
 RT: 17.54 min Scan# 2425  
 Delta R.T. -0.01 min  
 Lab File: BG031137.D  
 Acq: 20 Nov 2017 19:07

Instrument :  
 BNA\_G  
 ClientSampleId :  
 B0G33

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 75908     |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 15.7  | 12.2 18.4 |
| 176         | 20.1  | 16.4 24.6 |

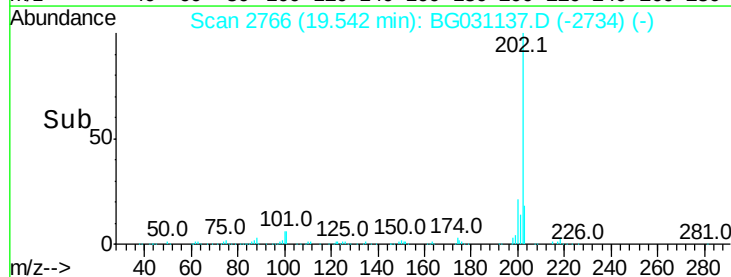
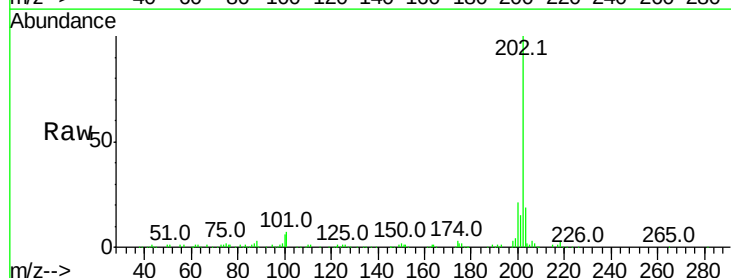
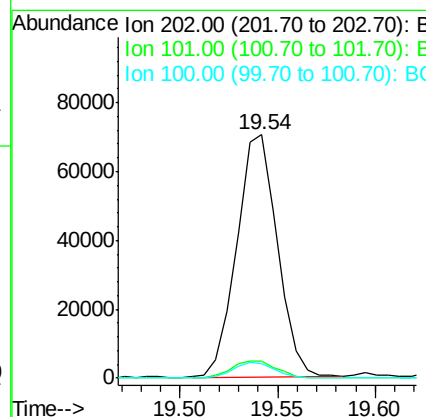
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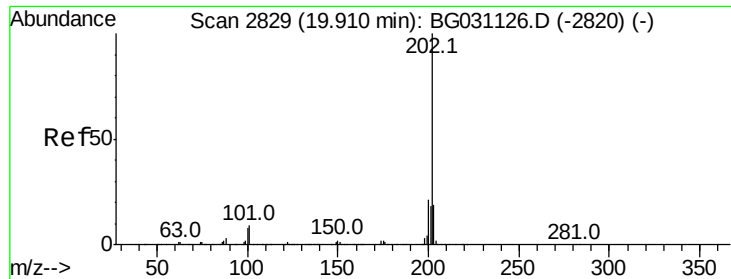
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#17  
 Fluoranthene  
 Concen: 2.758 ng/ul  
 RT: 19.54 min Scan# 2766  
 Delta R.T. -0.01 min  
 Lab File: BG031137.D  
 Acq: 20 Nov 2017 19:07

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:202 | Resp: | 101660    |
| Ion Ratio   | Lower | Upper     |
| 202         | 100   |           |
| 101         | 7.2   | 9.8 14.8# |
| 100         | 5.9   | 7.5 11.3# |





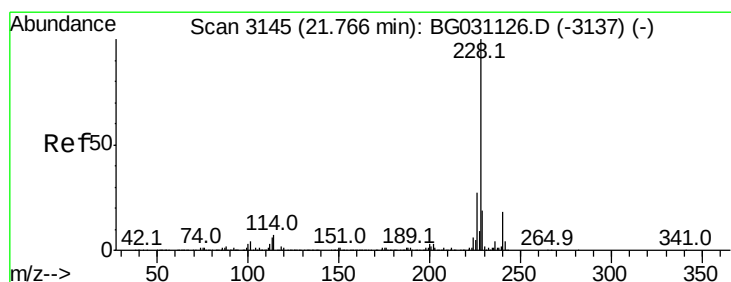
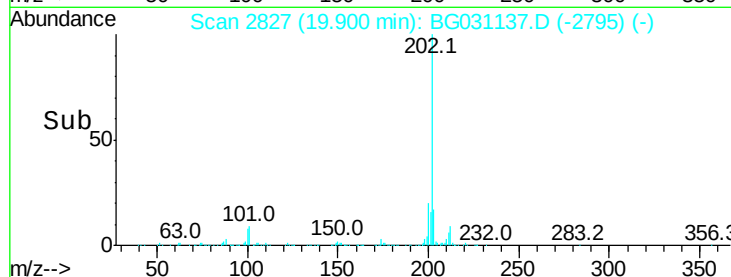
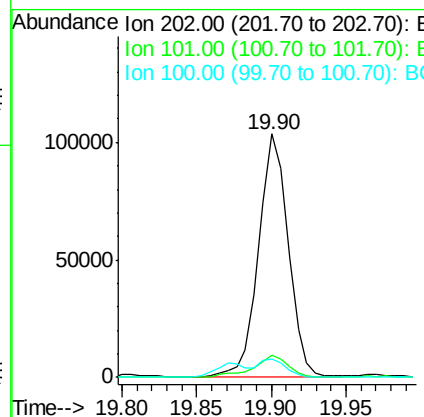
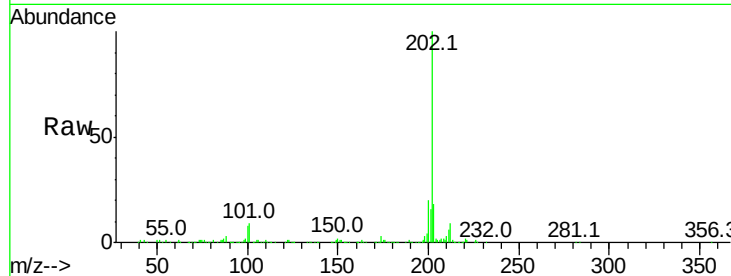
#20  
 Pvrene  
 Concen: 5.233 ng/ul  
 RT: 19.90 min Scan# 2827  
 Delta R.T. -0.01 min  
 Lab File: BG031137.D  
 Acq: 20 Nov 2017 19:07

Instrument :  
 BNA\_G  
 ClientSampled :  
 B0G33

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 9.1   | 11.2       | 16.8# |
| 100     | 7.6   | 9.8        | 14.6# |

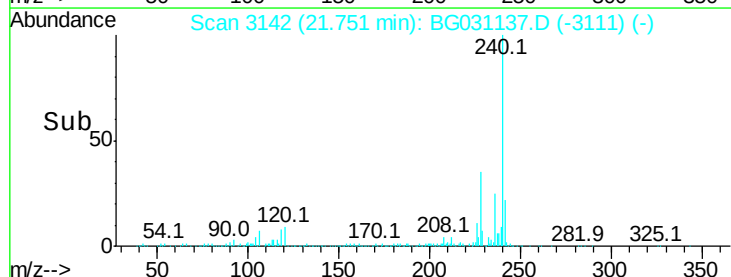
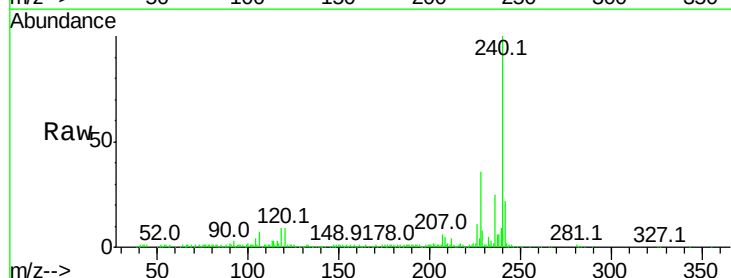
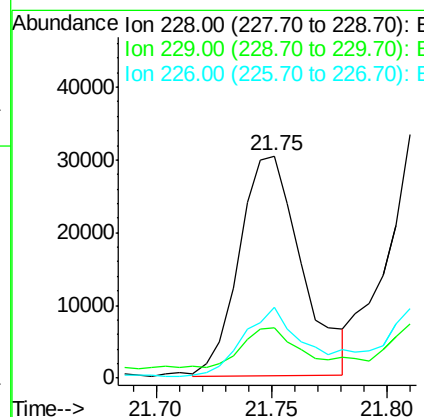
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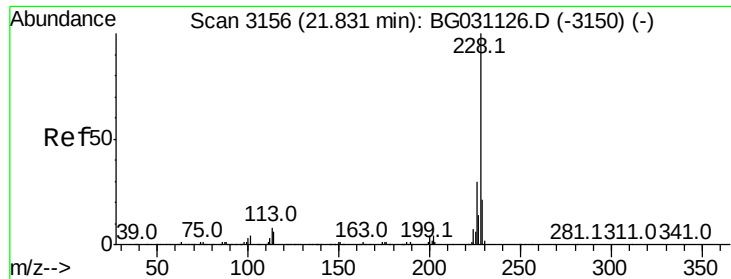
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#21  
 Benzo(a)anthracene  
 Concen: 1.842 ng/ul  
 RT: 21.75 min Scan# 3142  
 Delta R.T. -0.02 min  
 Lab File: BG031137.D  
 Acq: 20 Nov 2017 19:07

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 22.6  | 15.9       | 23.9  |
| 226     | 31.9  | 22.1       | 33.1  |





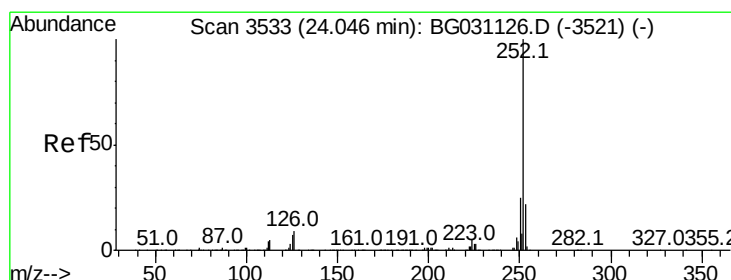
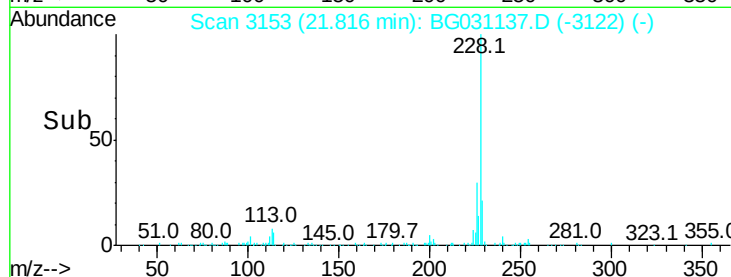
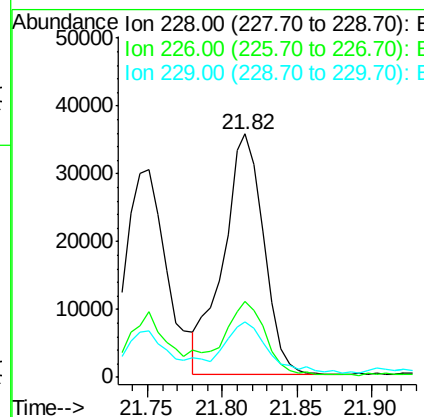
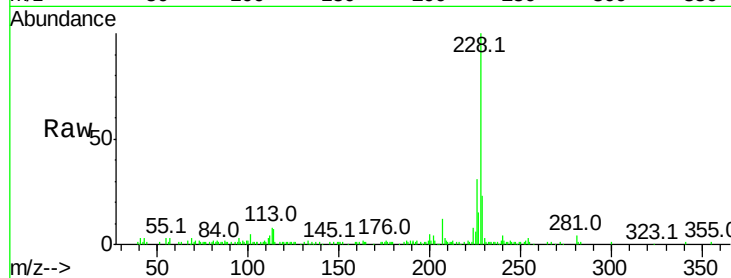
#22  
Chrysene  
Concen: 2.267 ng/ul  
RT: 21.82 min Scan# 3153  
Delta R.T. -0.02 min  
Lab File: BG031137.D  
Acq: 20 Nov 2017 19:07

Instrument :  
BNA\_G  
ClientSampled :  
B0G33

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 66927 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.0  | 25.0  | 37.6  |
| 229       | 22.6  | 16.6  | 25.0  |

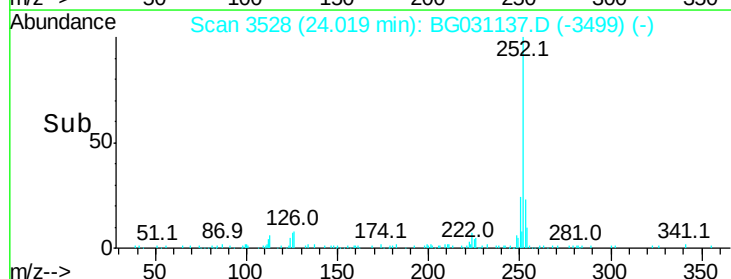
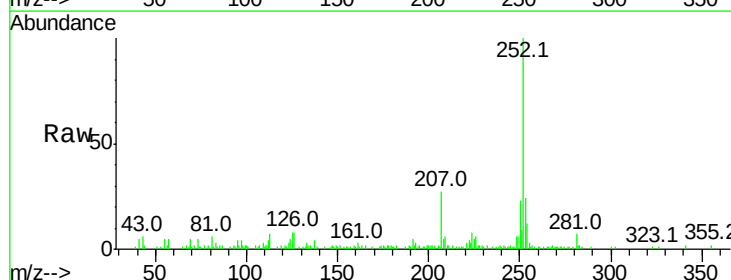
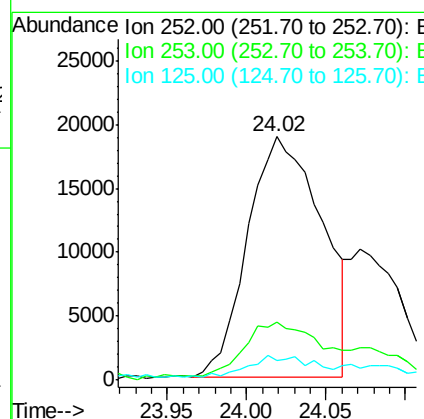
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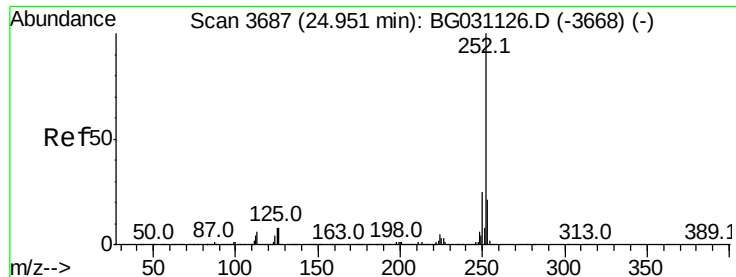
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#24  
Benzo(b)fluoranthene  
Concen: 2.002 ng/ul  
RT: 24.02 min Scan# 3528  
Delta R.T. -0.03 min  
Lab File: BG031137.D  
Acq: 20 Nov 2017 19:07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 61037 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.7  | 17.8  | 26.6  |
| 125       | 8.1   | 9.4   | 14.0# |





#27

Benzo(a)pyrene

Concen: 1.764 ng/ul m

RT: 24.91 min Scan# 3680

Delta R.T. -0.04 min

Lab File: BG031137.D

Acq: 20 Nov 2017 19:07

Instrument :

BNA\_G

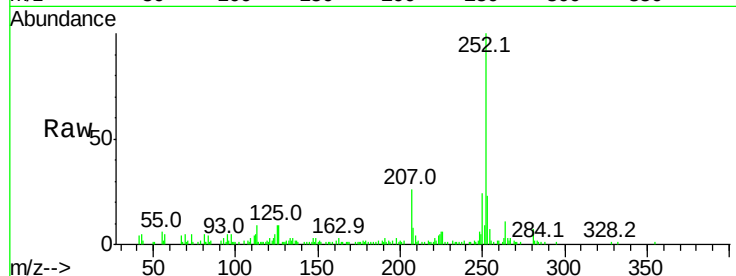
ClientSampled :

B0G33

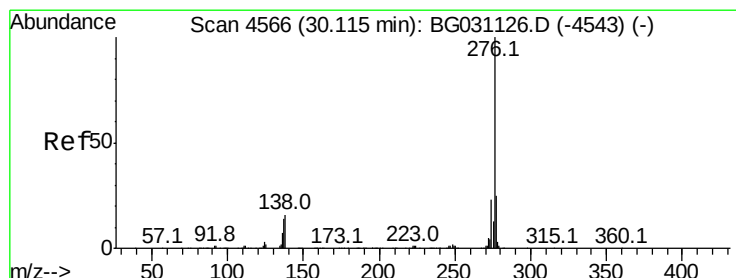
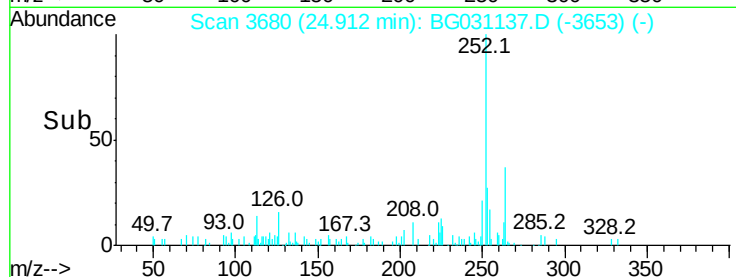
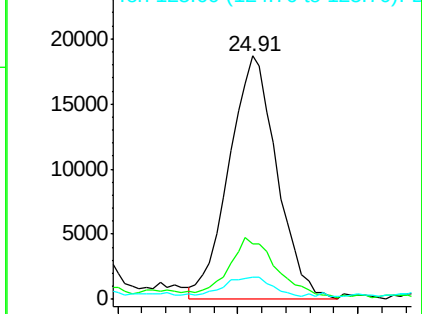
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 51557 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.9  | 17.1  | 25.7  |
| 125       | 9.2   | 9.4   | 14.2# |

Manual Integrations  
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Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#30

Benzo(g,h,i)perylene

Concen: 1.105 ng/ul m

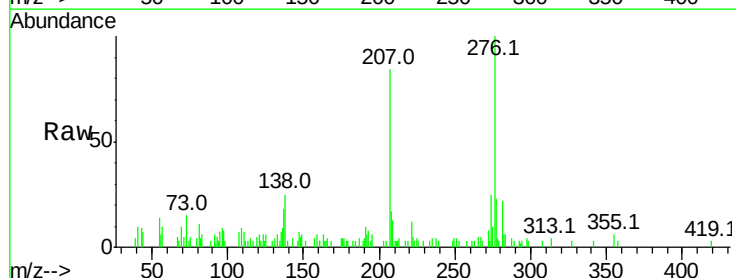
RT: 30.03 min Scan# 4551

Delta R.T. -0.09 min

Lab File: BG031137.D

Acq: 20 Nov 2017 19:07

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 30650 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 25.1  | 19.0  | 28.4  |
| 277       | 23.1  | 19.7  | 29.5  |



Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E

