

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051817\  
 Data File : BG027035.D  
 Acq On : 19 May 2017 11:44  
 Operator : SJ/MA  
 Sample : I3136-22  
 Misc :  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DAC32

Manual Integrations  
 APPROVED

mohammad  
 5/22/2017 11:05:19 AM

Quant Time: May 19 13:20:06 2017  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG051817MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 19 04:25:04 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min)  |
|-----------------------------|-------|------|----------|-------|--------|-----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.01  | 152  | 232047   | 20.00 | ng/ul  | 0.00      |
| 2) Naphthalene-d8           | 10.80 | 136  | 1069849  | 20.00 | ng/ul  | 0.00      |
| 6) Acenaphthene-d10         | 14.62 | 164  | 555456   | 20.00 | ng/ul  | 0.00      |
| 12) Phenanthrene-d10        | 17.36 | 188  | 1004052  | 20.00 | ng/ul  | 0.00      |
| 17) Chrysene-d12            | 21.60 | 240  | 897729   | 20.00 | ng/ul  | 0.00      |
| 22) Perylene-d12            | 24.78 | 264  | 856116   | 20.00 | ng/ul  | 0.01      |
| System Monitoring Compounds |       |      |          |       |        |           |
| 7) Acenaphthylene-d8        | 14.32 | 160  | 1360322  | 23.88 | ng/ul  | 0.00      |
| 10) Fluorene-d10            | 15.61 | 176  | 872745   | 22.96 | ng/ul  | 0.00      |
| 14) Anthracene-d10          | 17.46 | 188  | 1179650m | 24.10 | ng/ul  | 0.00      |
| 18) Pyrene-d10              | 19.73 | 212  | 1107392  | 23.63 | ng/ul  | 0.00      |
| 25) Benzo(a)pyrene-d12      | 24.56 | 264  | 1012820  | 23.81 | ng/ul  | 0.01      |
| Target Compounds            |       |      |          |       |        |           |
| 13) Phenanthrene            | 17.40 | 178  | 63338    | 1.13  | ng/ul  | Qvalue 96 |
| 16) Fluoranthene            | 19.40 | 202  | 165920   | 2.89  | ng/ul# | 93        |
| 19) Pyrene                  | 19.76 | 202  | 145579   | 2.48  | ng/ul# | 89        |
| 20) Benzo(a)anthracene      | 21.59 | 228  | 91022    | 1.68  | ng/ul# | 94        |
| 21) Chrysene                | 21.65 | 228  | 99306    | 2.00  | ng/ul# | 94        |
| 23) Benzo(b)fluoranthene    | 23.77 | 252  | 163859   | 3.22  | ng/ul# | 91        |
| 26) Benzo(a)pyrene          | 24.62 | 252  | 81819    | 1.64  | ng/ul# | 88        |
| 27) Indeno(1,2,3-cd)pyrene  | 28.38 | 276  | 47677m   | 1.04  | ng/ul  |           |

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

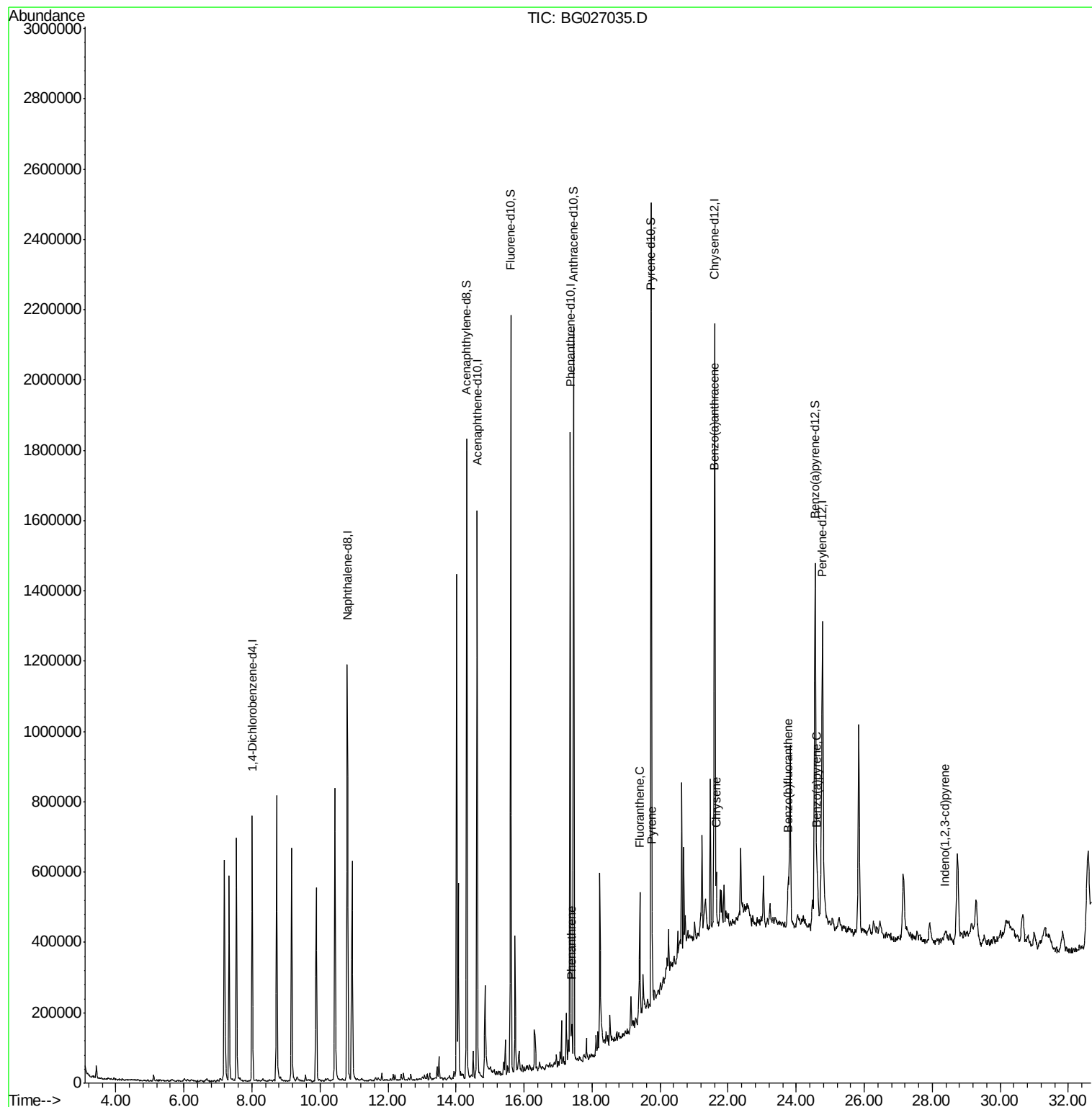
Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051817\  
Data File : BG027035.D  
Acq On : 19 May 2017 11:44  
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Sample : I3136-22  
Misc :  
ALS Vial : 34 Sample Multiplier: 1

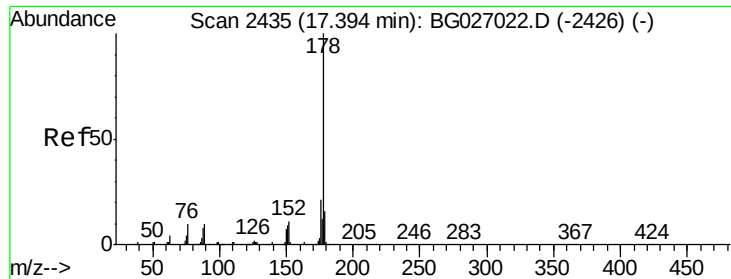
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Quant Time: May 19 13:20:06 2017  
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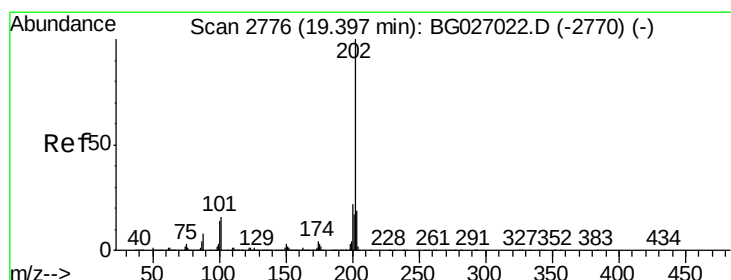
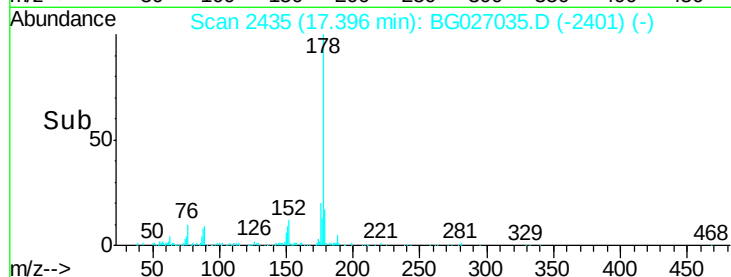
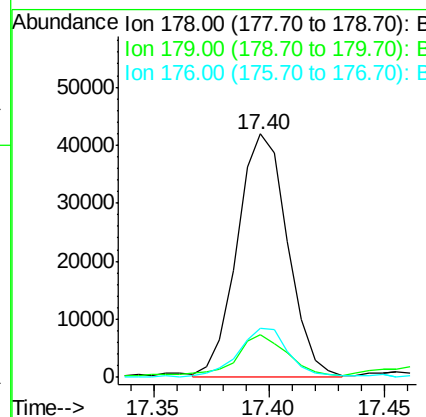
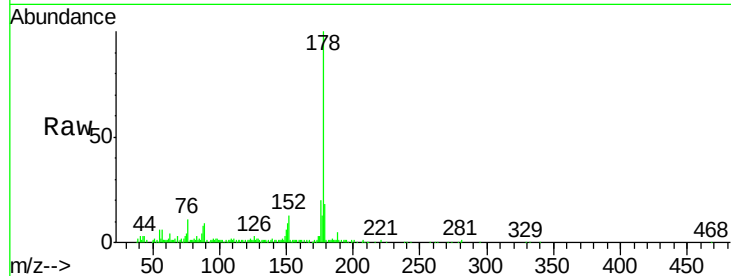
#13  
Phenanthrene  
Concen: 1.13 ng/ul  
RT: 17.40 min Scan# 2435  
Delta R.T. 0.00 min  
Lab File: BG027035.D  
Acq: 19 May 2017 11:44

Instrument :  
BNA\_G  
ClientSampleId :  
DAC32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 17.7  | 12.3  | 18.5  |
| 176     | 20.2  | 15.1  | 22.7  |

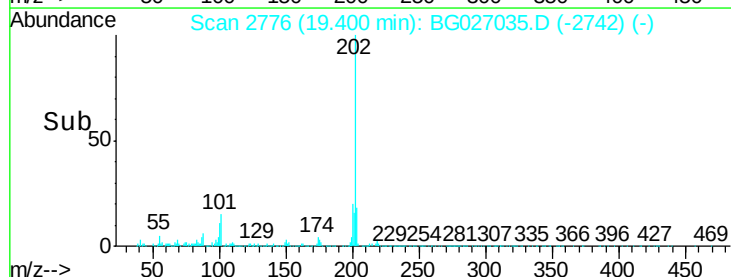
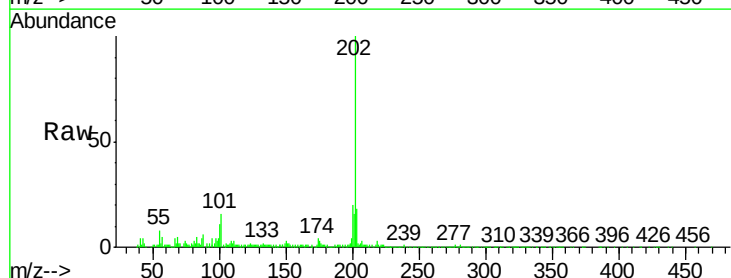
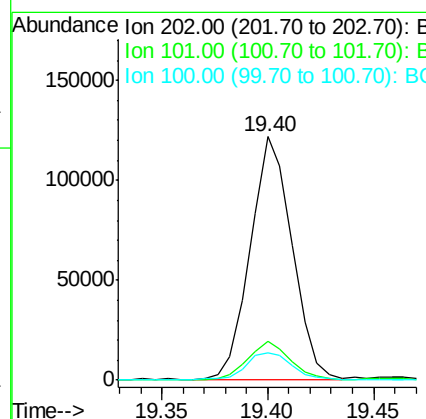
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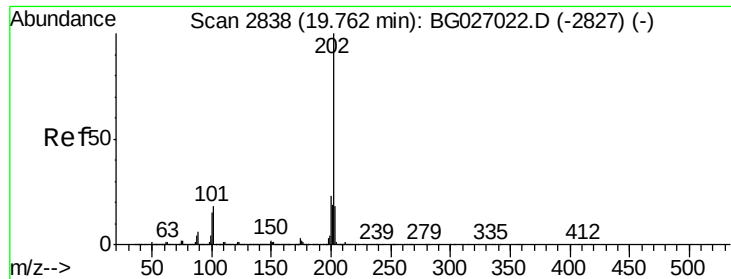
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#16  
Fluoranthene  
Concen: 2.89 ng/ul  
RT: 19.40 min Scan# 2776  
Delta R.T. 0.00 min  
Lab File: BG027035.D  
Acq: 19 May 2017 11:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 15.8  | 9.9   | 14.9# |
| 100     | 11.0  | 7.4   | 11.0  |





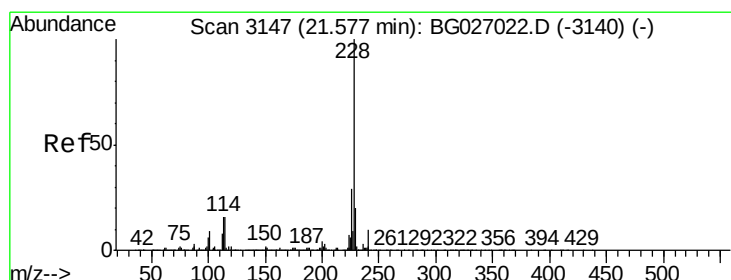
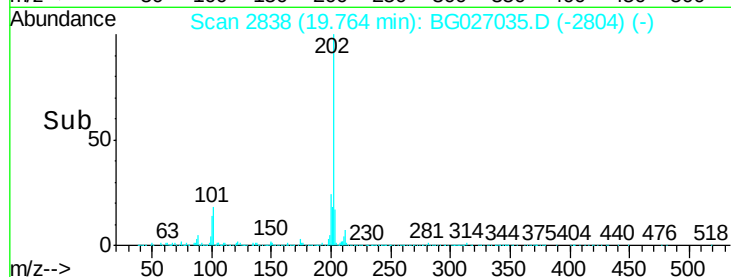
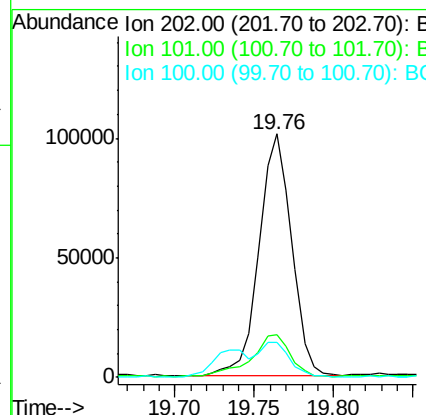
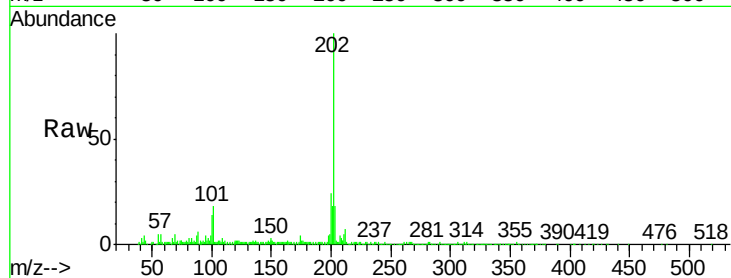
#19  
 Pyrene  
 Concen: 2.48 ng/ul  
 RT: 19.76 min Scan# 2838  
 Delta R.T. 0.00 min  
 Lab File: BG027035.D  
 Acq: 19 May 2017 11:44

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DAC32

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 17.8  | 11.0       | 16.4#      |
| 100     | 14.3  | 8.1        | 12.1#      |

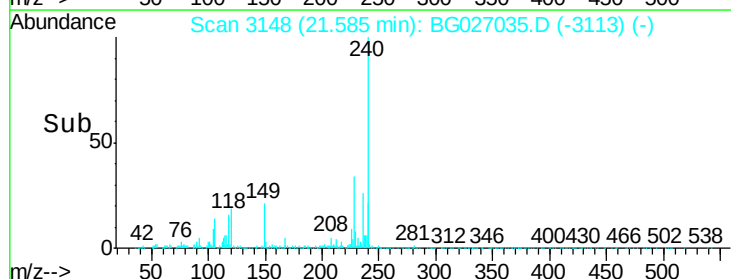
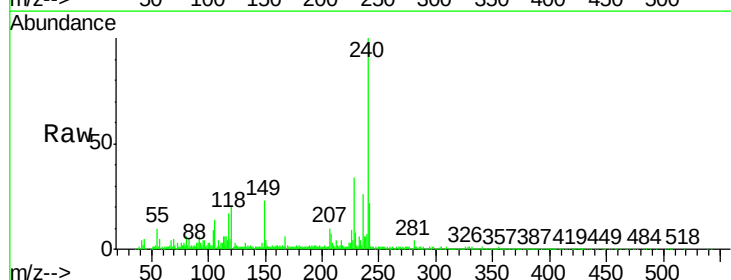
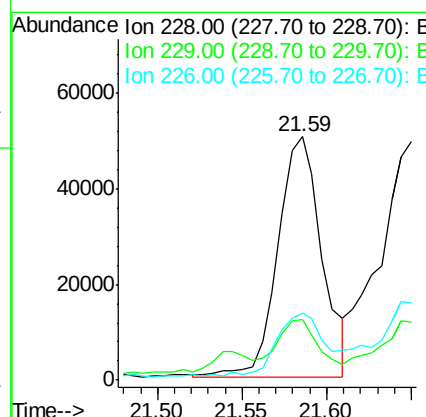
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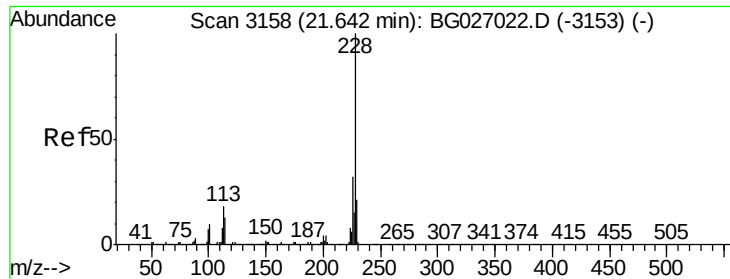
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#20  
 Benzo(a)anthracene  
 Concen: 1.68 ng/ul  
 RT: 21.59 min Scan# 3148  
 Delta R.T. 0.01 min  
 Lab File: BG027035.D  
 Acq: 19 May 2017 11:44

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 24.8  | 15.7       | 23.5#      |
| 226     | 27.6  | 21.1       | 31.7       |





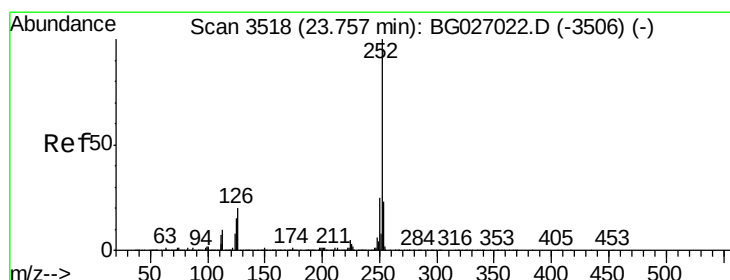
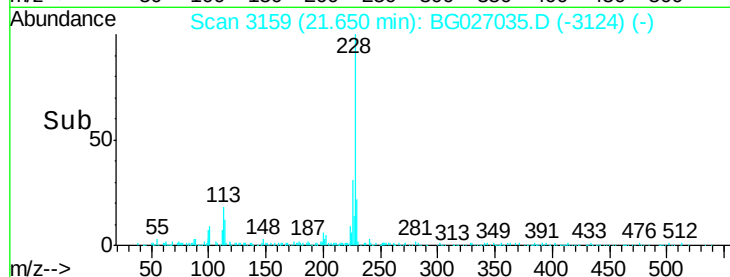
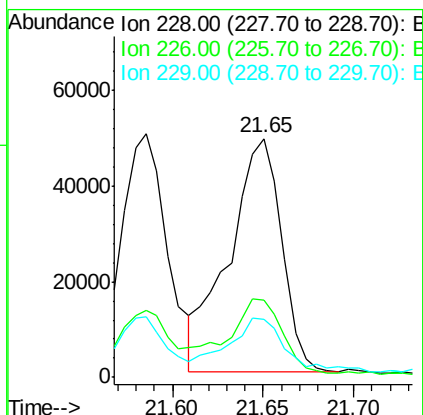
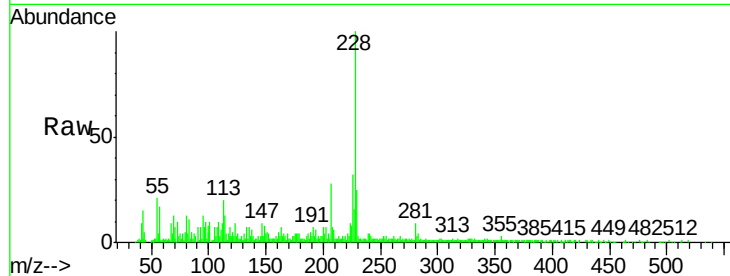
#21  
Chrysene  
Concen: 2.00 ng/ul  
RT: 21.65 min Scan# 3159  
Delta R.T. 0.01 min  
Lab File: BG027035.D  
Acq: 19 May 2017 11:44

Instrument :  
BNA\_G  
ClientSampleId :  
DAC32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.3  | 24.5  | 36.7  |
| 229     | 24.6  | 15.8  | 23.8  |

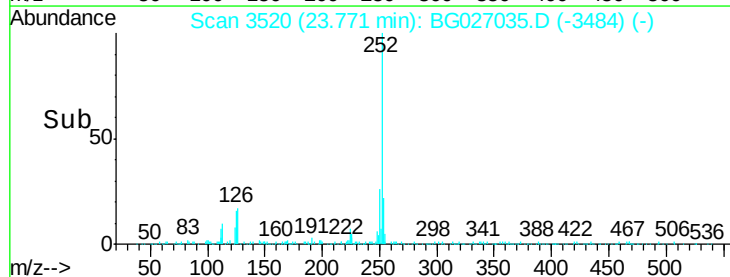
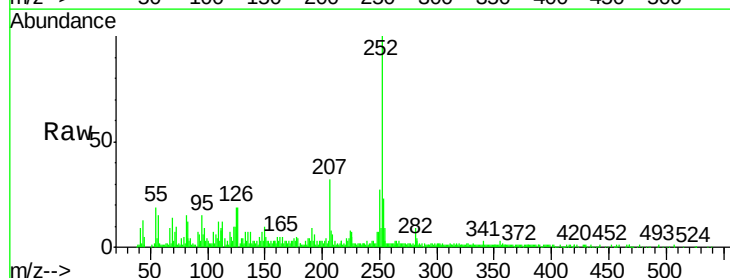
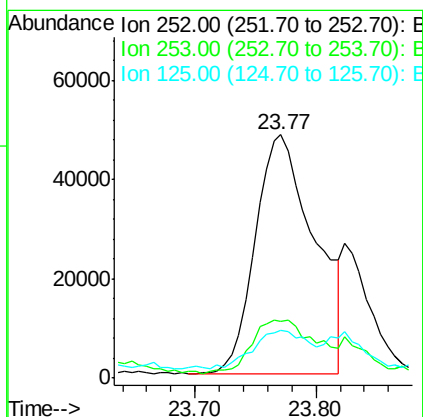
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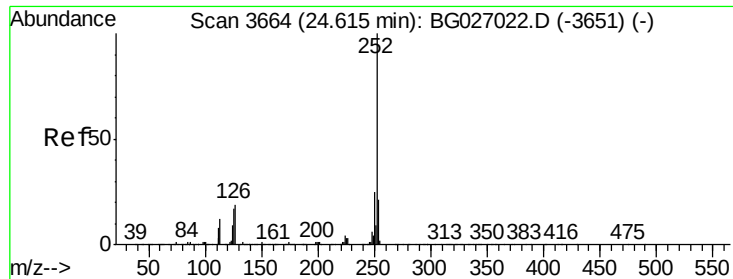
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#23  
Benzo(b)fluoranthene  
Concen: 3.22 ng/ul  
RT: 23.77 min Scan# 3520  
Delta R.T. 0.01 min  
Lab File: BG027035.D  
Acq: 19 May 2017 11:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.2  | 18.0  | 27.0  |
| 125     | 19.4  | 8.0   | 12.0  |





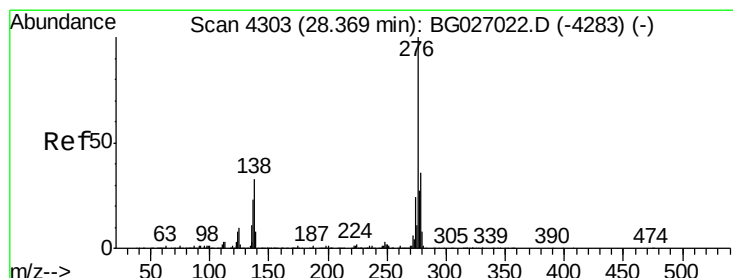
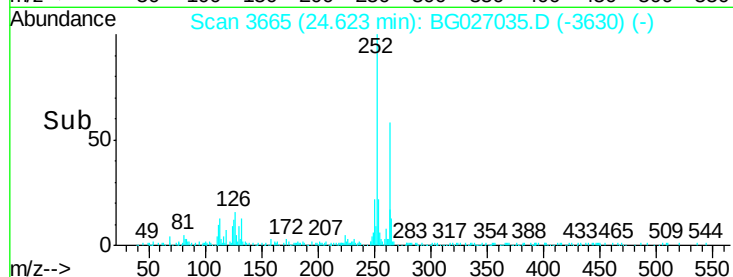
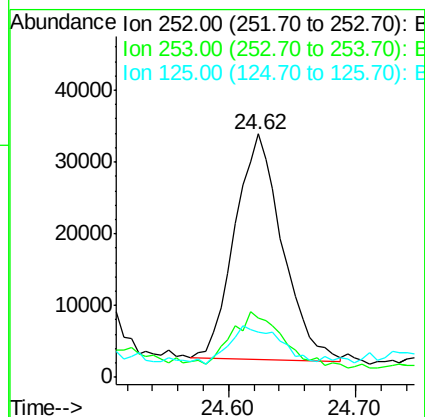
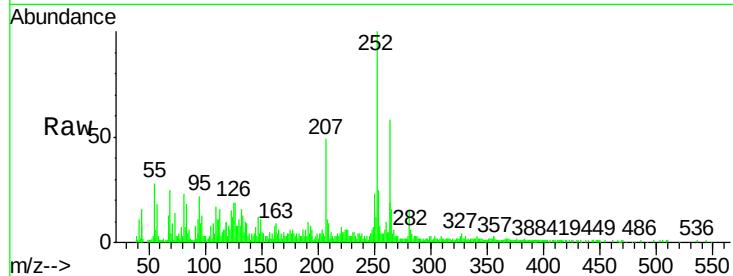
#26  
Benzo(a)pyrene  
Concen: 1.64 ng/ul  
RT: 24.62 min Scan# 3665  
Delta R.T. 0.01 min  
Lab File: BG027035.D  
Acq: 19 May 2017 11:44

Instrument :  
BNA\_G  
ClientSampleId :  
DAC32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.6  | 17.2  | 25.8  |
| 125     | 18.6  | 8.2   | 12.4  |

Manual Integrations  
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#27  
Indeno(1,2,3-cd)pyrene  
Concen: 1.04 ng/ul m  
RT: 28.38 min Scan# 4304  
Delta R.T. 0.01 min  
Lab File: BG027035.D  
Acq: 19 May 2017 11:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 35.2  | 14.4  | 21.6  |
| 277     | 26.5  | 18.0  | 27.0  |

