

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051817\  
 Data File : BG027025.D  
 Acq On : 19 May 2017 5:09  
 Operator : SJ/MA  
 Sample : I3136-02  
 Misc :  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DAC13

Quant Time: May 19 06:34:13 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 | 8.00  | 152  | 198108   | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.81 | 136  | 932802   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.61 | 164  | 498246   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.35 | 188  | 918408   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 21.60 | 240  | 804731   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 24.76 | 264  | 829692   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                        |       |     |        |       |       |       |
|------------------------|-------|-----|--------|-------|-------|-------|
| 7) Acenaphthylene-d8   | 14.31 | 160 | 736645 | 14.41 | ng/ul | 0.00  |
| 10) Fluorene-d10       | 15.61 | 176 | 475409 | 13.94 | ng/ul | 0.00  |
| 14) Anthracene-d10     | 17.35 | 188 | 918408 | 20.51 | ng/ul | -0.10 |
| 18) Pyrene-d10         | 19.73 | 212 | 629711 | 14.99 | ng/ul | 0.00  |
| 25) Benzo(a)pyrene-d12 | 24.54 | 264 | 580301 | 14.08 | ng/ul | 0.00  |

## Target Compounds

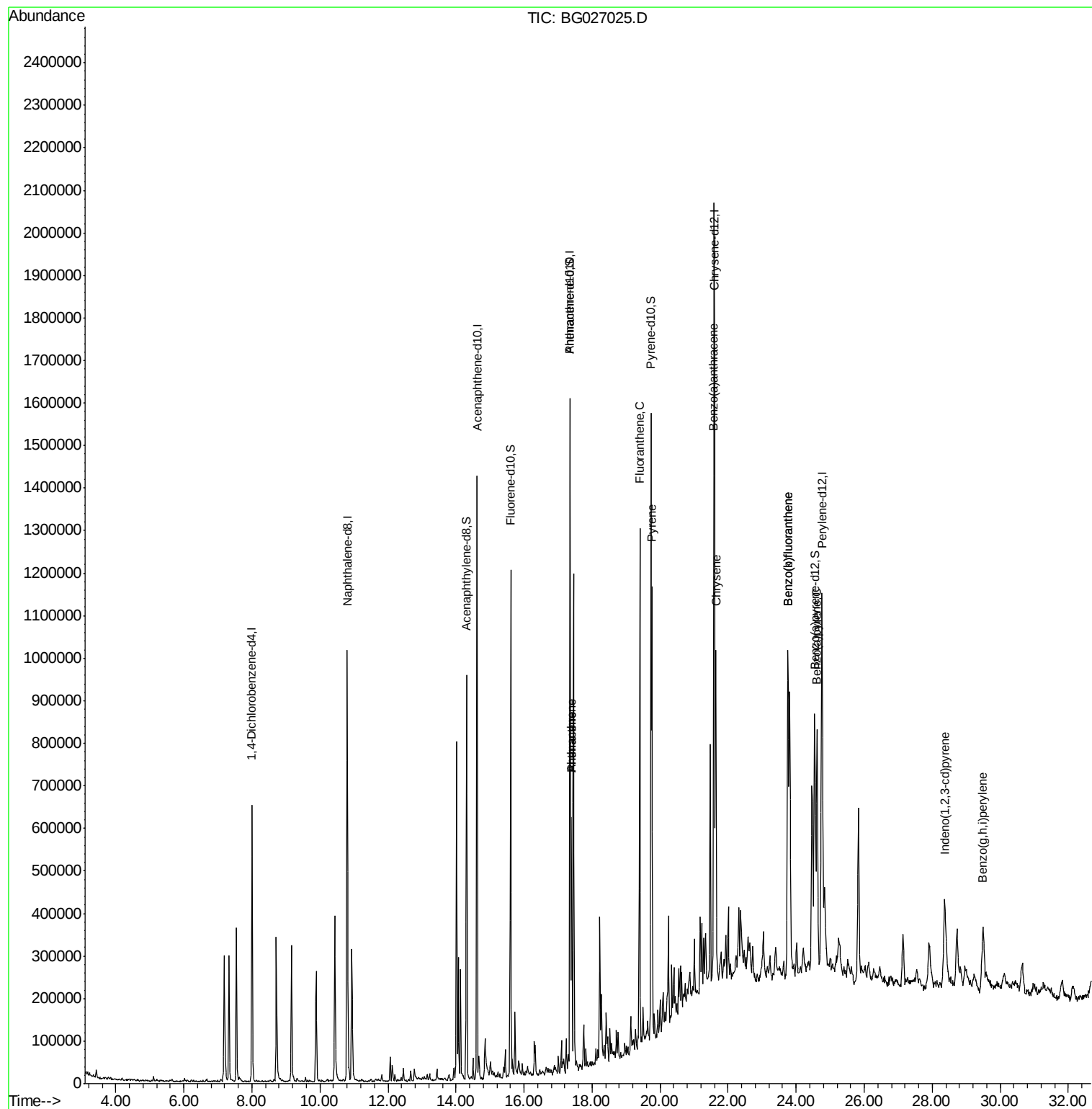
|                            |       |     |        |       |        | Qvalue |
|----------------------------|-------|-----|--------|-------|--------|--------|
| 13) Phenanthrene           | 17.39 | 178 | 351560 | 6.85  | ng/ul  | 99     |
| 15) Anthracene             | 17.39 | 178 | 351560 | 6.66  | ng/ul  | 99     |
| 16) Fluoranthene           | 19.40 | 202 | 699535 | 13.33 | ng/ul# | 94     |
| 19) Pyrene                 | 19.76 | 202 | 631798 | 12.01 | ng/ul# | 89     |
| 20) Benzo(a)anthracene     | 21.57 | 228 | 439304 | 9.06  | ng/ul  | 98     |
| 21) Chrysene               | 21.65 | 228 | 516528 | 11.60 | ng/ul  | 97     |
| 23) Benzo(b)fluoranthene   | 23.76 | 252 | 865172 | 17.55 | ng/ul# | 94     |
| 24) Benzo(k)fluoranthene   | 23.76 | 252 | 865172 | 17.06 | ng/ul# | 94     |
| 26) Benzo(a)pyrene         | 24.61 | 252 | 539253 | 11.18 | ng/ul# | 90     |
| 27) Indeno(1,2,3-cd)pyrene | 28.37 | 276 | 338474 | 7.63  | ng/ul# | 89     |
| 29) Benzo(g,h,i)perylene   | 29.49 | 276 | 297705 | 8.44  | ng/ul# | 90     |

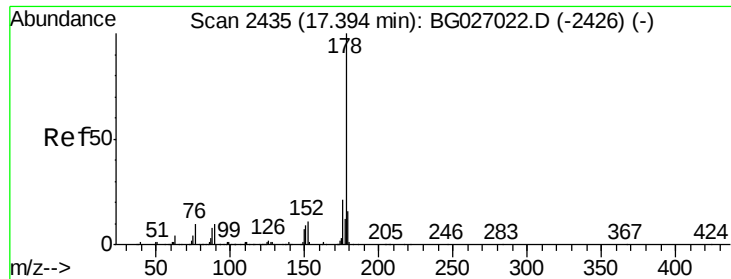
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 19 04:25:04 2017  
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#13

Phenanthrene

Concen: 6.85 ng/ul

RT: 17.39 min Scan# 2434

Delta R.T. -0.00 min

Lab File: BG027025.D

Acq: 19 May 2017 5:09

Instrument :

BNA\_G

ClientSampleId :

DAC13

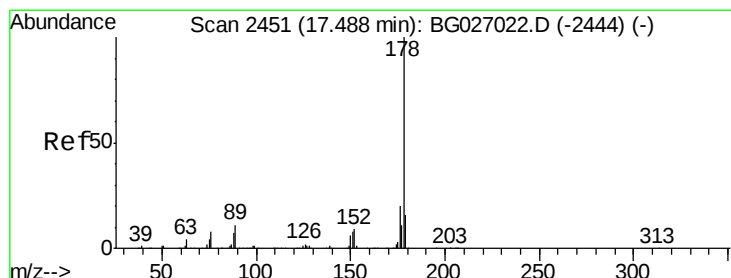
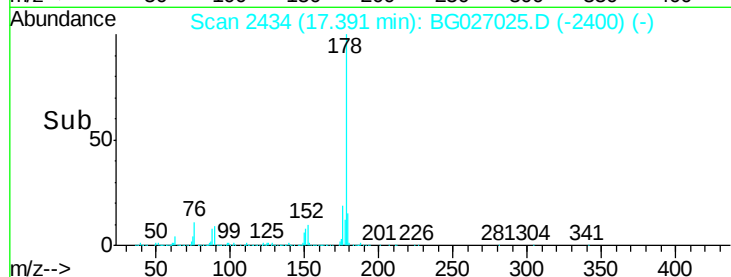
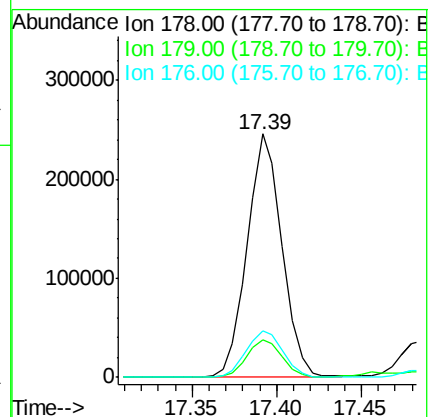
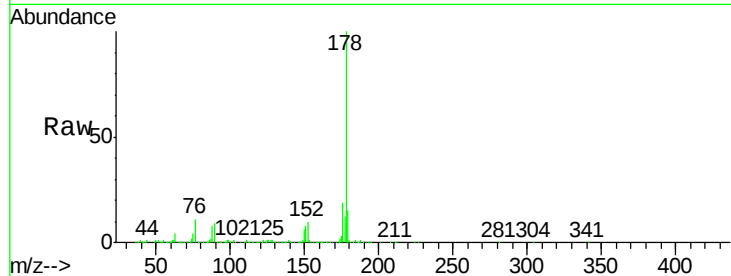
Tgt Ion:178 Resp: 351560

Ion Ratio Lower Upper

178 100

179 15.3 12.3 18.5

176 19.3 15.1 22.7



#15

Anthracene

Concen: 6.66 ng/ul

RT: 17.39 min Scan# 2434

Delta R.T. -0.10 min

Lab File: BG027025.D

Acq: 19 May 2017 5:09

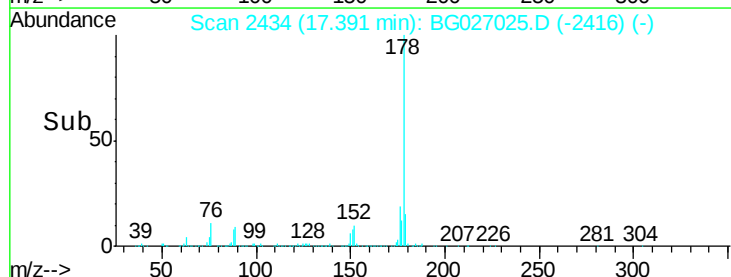
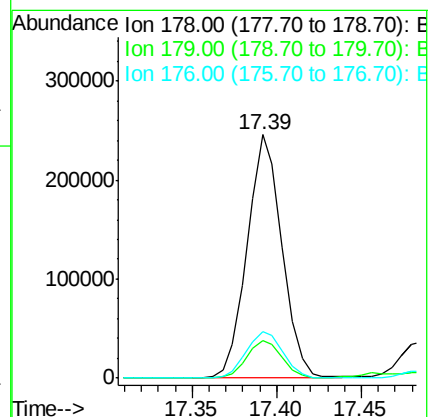
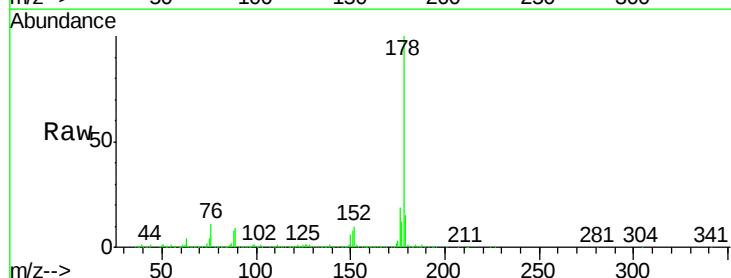
Tgt Ion:178 Resp: 351560

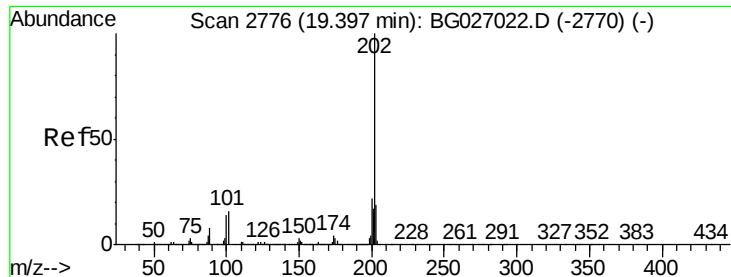
Ion Ratio Lower Upper

178 100

179 15.3 11.8 17.8

176 19.3 15.2 22.8

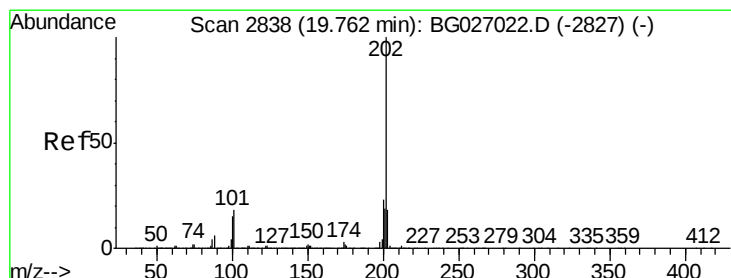
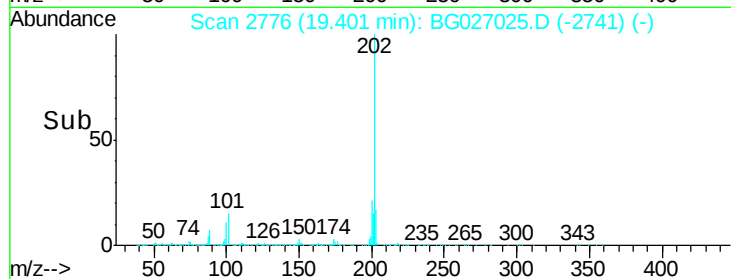
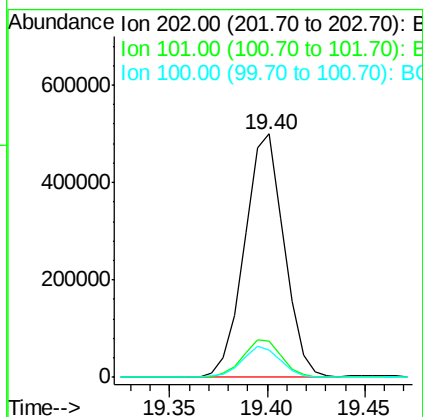
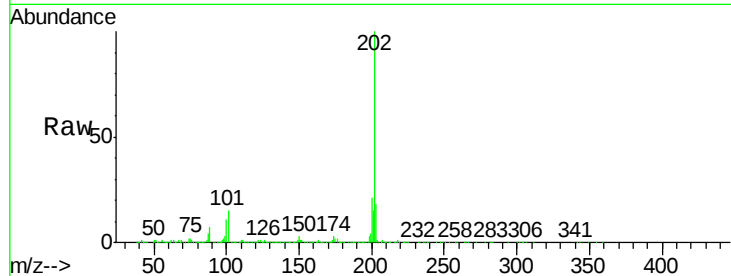




#16  
Fluoranthene  
Concen: 13.33 ng/ul  
RT: 19.40 min Scan# 2776  
Delta R.T. 0.00 min  
Lab File: BG027025.D  
Acq: 19 May 2017 5:09

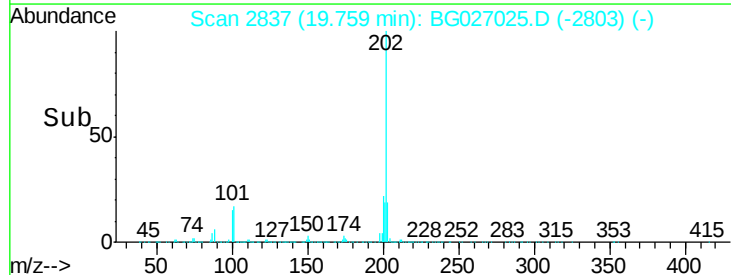
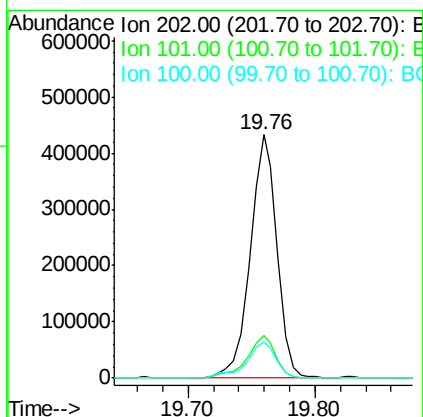
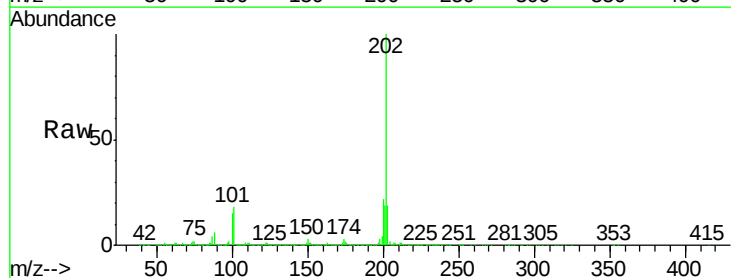
Instrument :  
BNA\_G  
ClientSampleId :  
DAC13

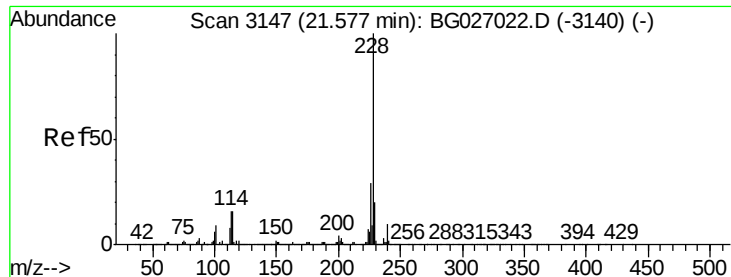
| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 699535 |       |       |
| 101     | 15.1  | 9.9    | 14.9# |       |
| 100     | 11.2  | 7.4    | 11.0# |       |



#19  
Pyrene  
Concen: 12.01 ng/ul  
RT: 19.76 min Scan# 2837  
Delta R.T. -0.00 min  
Lab File: BG027025.D  
Acq: 19 May 2017 5:09

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 631798 |       |       |
| 101     | 17.5  | 11.0   | 16.4# |       |
| 100     | 14.9  | 8.1    | 12.1# |       |





#20

Benzo(a)anthracene

Concen: 9.06 ng/ul

RT: 21.57 min Scan# 3146

Delta R.T. -0.00 min

Lab File: BG027025.D

Acq: 19 May 2017 5:09

Instrument :

BNA\_G

ClientSampleId :

DAC13

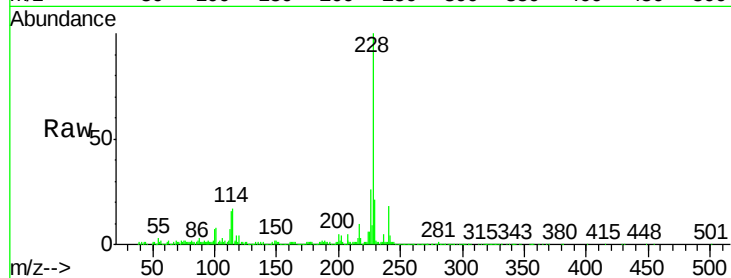
Tgt Ion:228 Resp: 439304

Ion Ratio Lower Upper

228 100

229 21.4 15.7 23.5

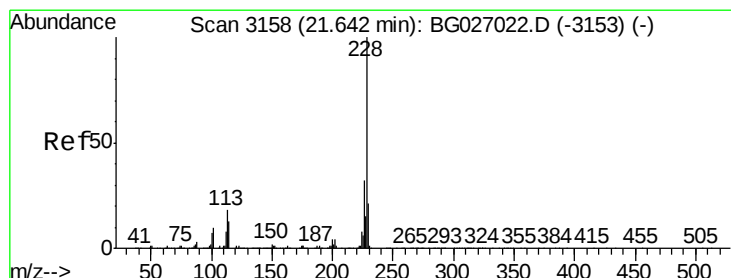
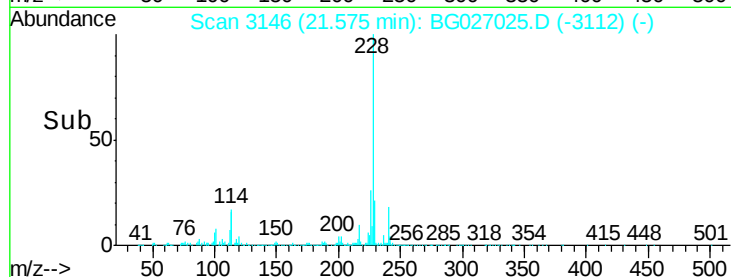
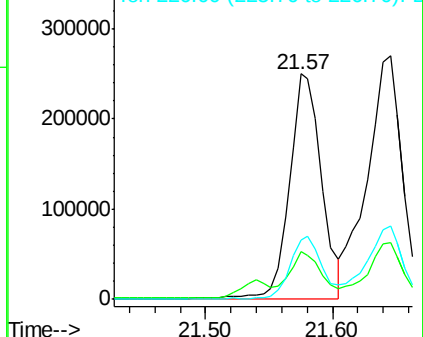
226 26.1 21.1 31.7



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E



#21

Chrysene

Concen: 11.60 ng/ul

RT: 21.65 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BG027025.D

Acq: 19 May 2017 5:09

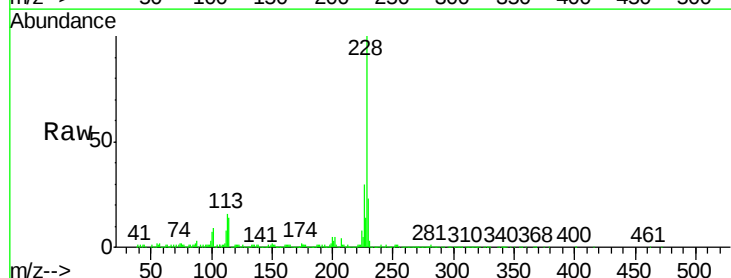
Tgt Ion:228 Resp: 516528

Ion Ratio Lower Upper

228 100

226 30.3 24.5 36.7

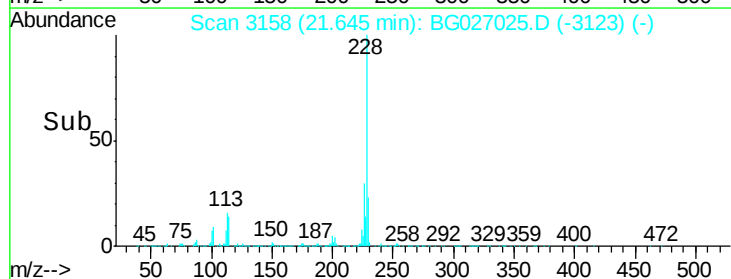
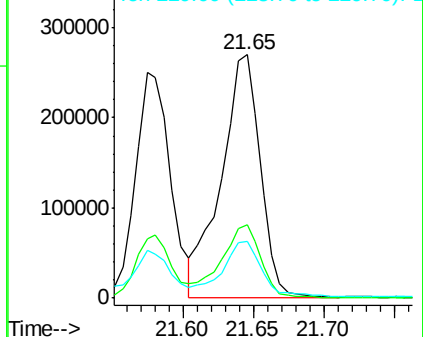
229 23.3 15.8 23.8

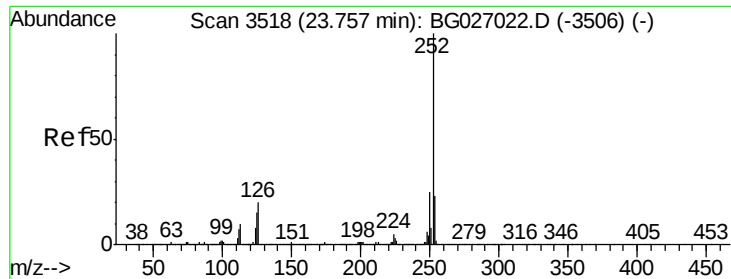


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#23

Benzo(b)fluoranthene

Concen: 17.55 ng/ul

RT: 23.76 min Scan# 3518

Delta R.T. 0.00 min

Lab File: BG027025.D

Acq: 19 May 2017 5:09

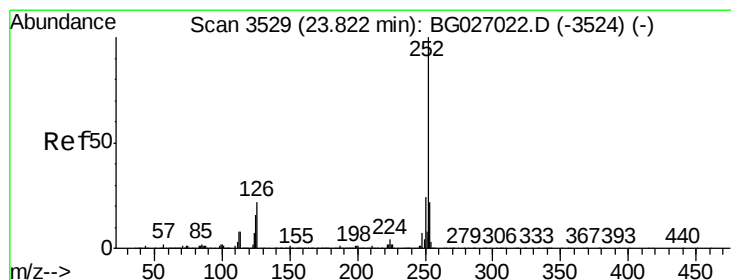
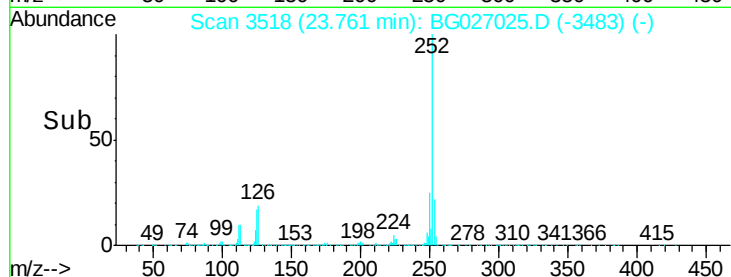
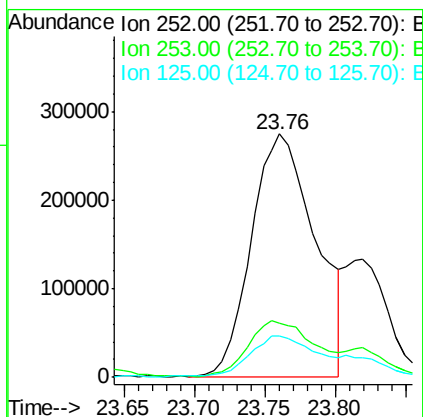
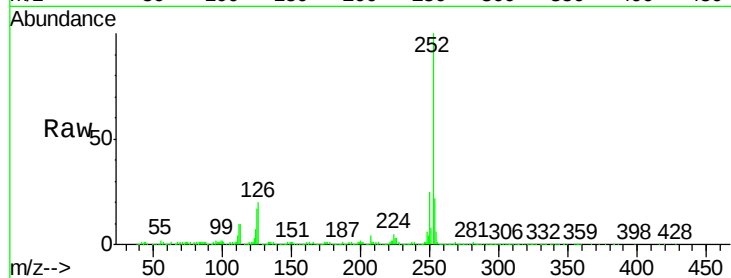
Instrument :

BNA\_G

ClientSampleId :

DAC13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 865172 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.1  | 18.0  | 27.0   |
| 125       | 16.8  | 8.0   | 12.0#  |



#24

Benzo(k)fluoranthene

Concen: 17.06 ng/ul

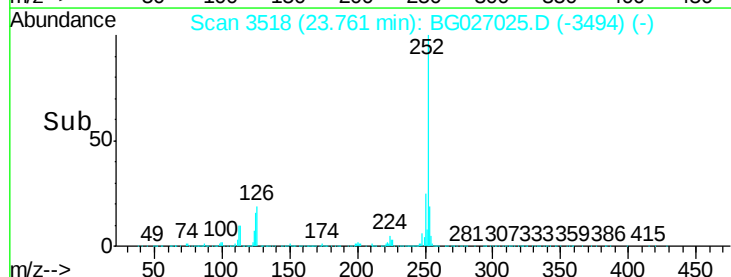
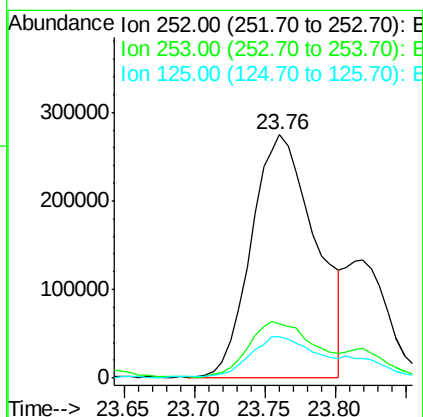
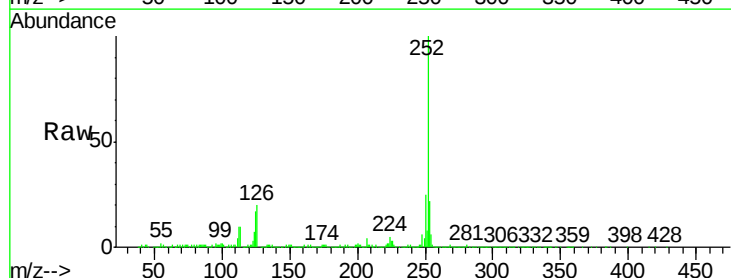
RT: 23.76 min Scan# 3518

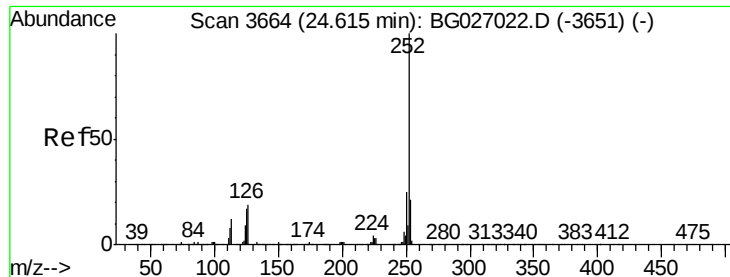
Delta R.T. -0.06 min

Lab File: BG027025.D

Acq: 19 May 2017 5:09

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 865172 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.1  | 18.0  | 27.0   |
| 125       | 16.8  | 8.1   | 12.1#  |





#26

Benzo(a)pyrene

Concen: 11.18 ng/ul

RT: 24.61 min Scan# 3663

Delta R.T. -0.00 min

Lab File: BG027025.D

Acq: 19 May 2017 5:09

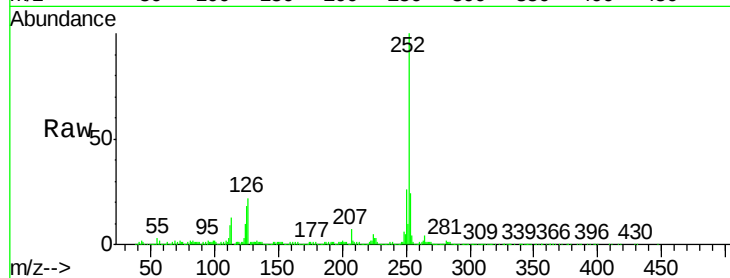
Instrument :

BNA\_G

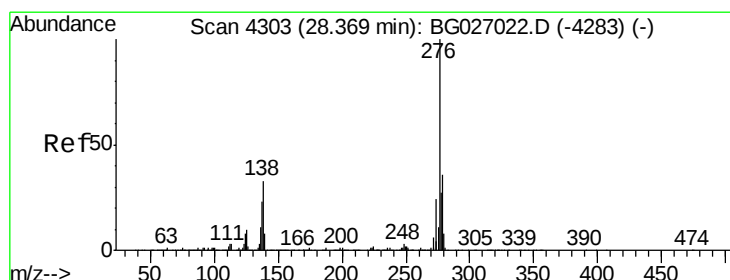
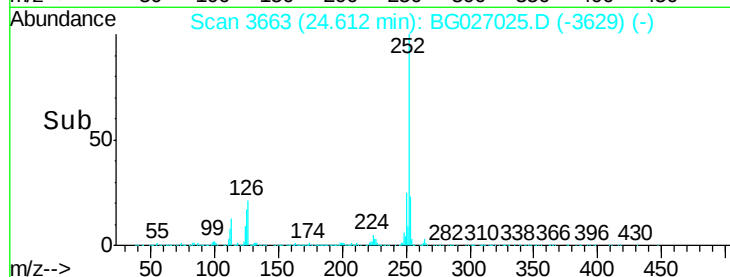
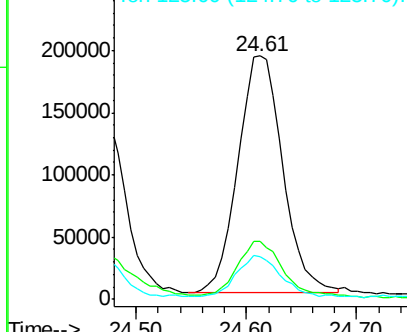
ClientSampled :

DAC13

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 539253 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.1  | 17.2  | 25.8   |
| 125       | 17.7  | 8.2   | 12.4#  |



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



#27

Indeno(1,2,3-cd)pyrene

Concen: 7.63 ng/ul

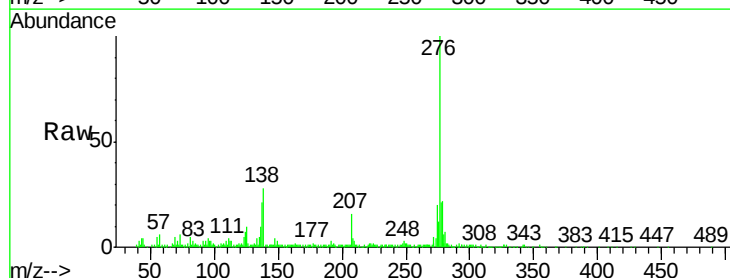
RT: 28.37 min Scan# 4302

Delta R.T. -0.00 min

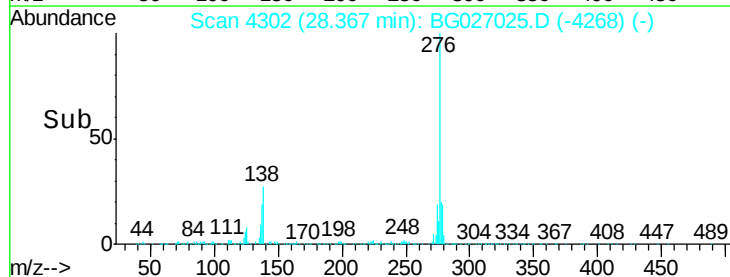
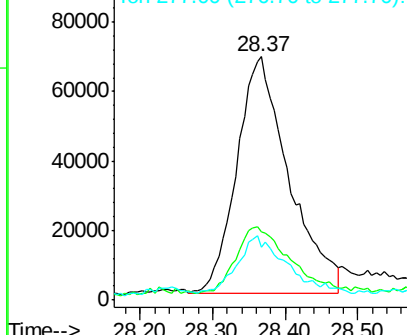
Lab File: BG027025.D

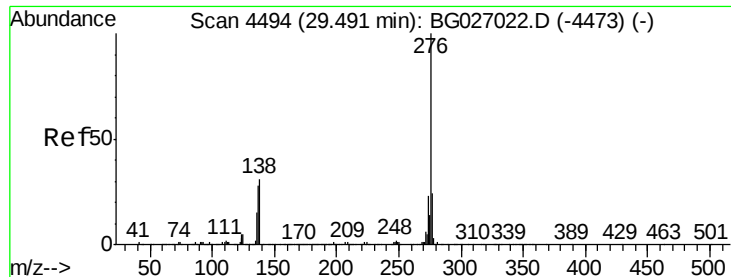
Acq: 19 May 2017 5:09

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 276   | Resp: | 338474 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 28.2  | 14.4  | 21.6#  |
| 277       | 21.5  | 18.0  | 27.0   |



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





#29

Benzo(g,h,i)perylene

Concen: 8.44 ng/ul

RT: 29.49 min Scan# 4494

Delta R.T. 0.00 min

Lab File: BG027025.D

Acq: 19 May 2017 5:09

Instrument :

BNA\_G

ClientSampleId :

DAC13

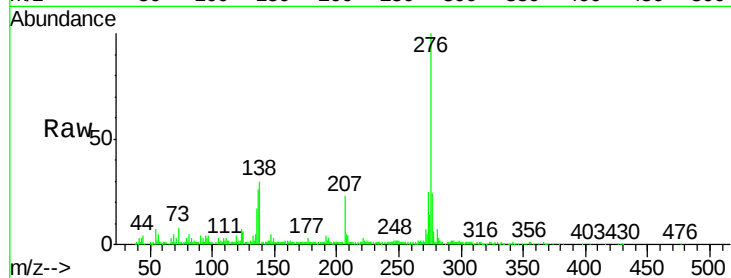
Tgt Ion: 276 Resp: 297705

Ion Ratio Lower Upper

276 100

138 29.5 15.3 22.9#

277 23.7 19.0 28.4



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

