

Data Path : Z:\HPCHEM1\BNA G\DATA\BG100917\  
 Data File : BG029118.D  
 Acq On : 9 Oct 2017 21:57  
 Operator : SJ/JU  
 Sample : I5578-18  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DAH99

Quant Time: Oct 10 06:35:00 2017  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG100717MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Oct 10 06:24:09 2017  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.21  | 152  | 58069    | 20.00 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 11.03 | 136  | 246810   | 20.00 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.83 | 164  | 167576   | 20.00 | ng/ul | 0.00     |
| 12) Phenanthrene-d10      | 17.56 | 188  | 386085   | 20.00 | ng/ul | 0.00     |
| 17) Chrysene-d12          | 21.84 | 240  | 412070   | 20.00 | ng/ul | 0.00     |
| 22) Perylene-d12          | 25.18 | 264  | 427876   | 20.00 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 7) Acenaphthylene-d8        | 14.52 | 160  | 452589   | 25.97 | ng/ul | 0.00     |
| 10) Fluorene-d10            | 15.81 | 176  | 349823   | 27.67 | ng/ul | 0.00     |
| 14) Anthracene-d10          | 17.66 | 188  | 512475   | 27.40 | ng/ul | 0.00     |
| 18) Pyrene-d10              | 19.93 | 212  | 619958   | 29.41 | ng/ul | 0.00     |
| 25) Benzo(a)pyrene-d12      | 24.96 | 264  | 587851   | 28.68 | ng/ul | 0.00     |

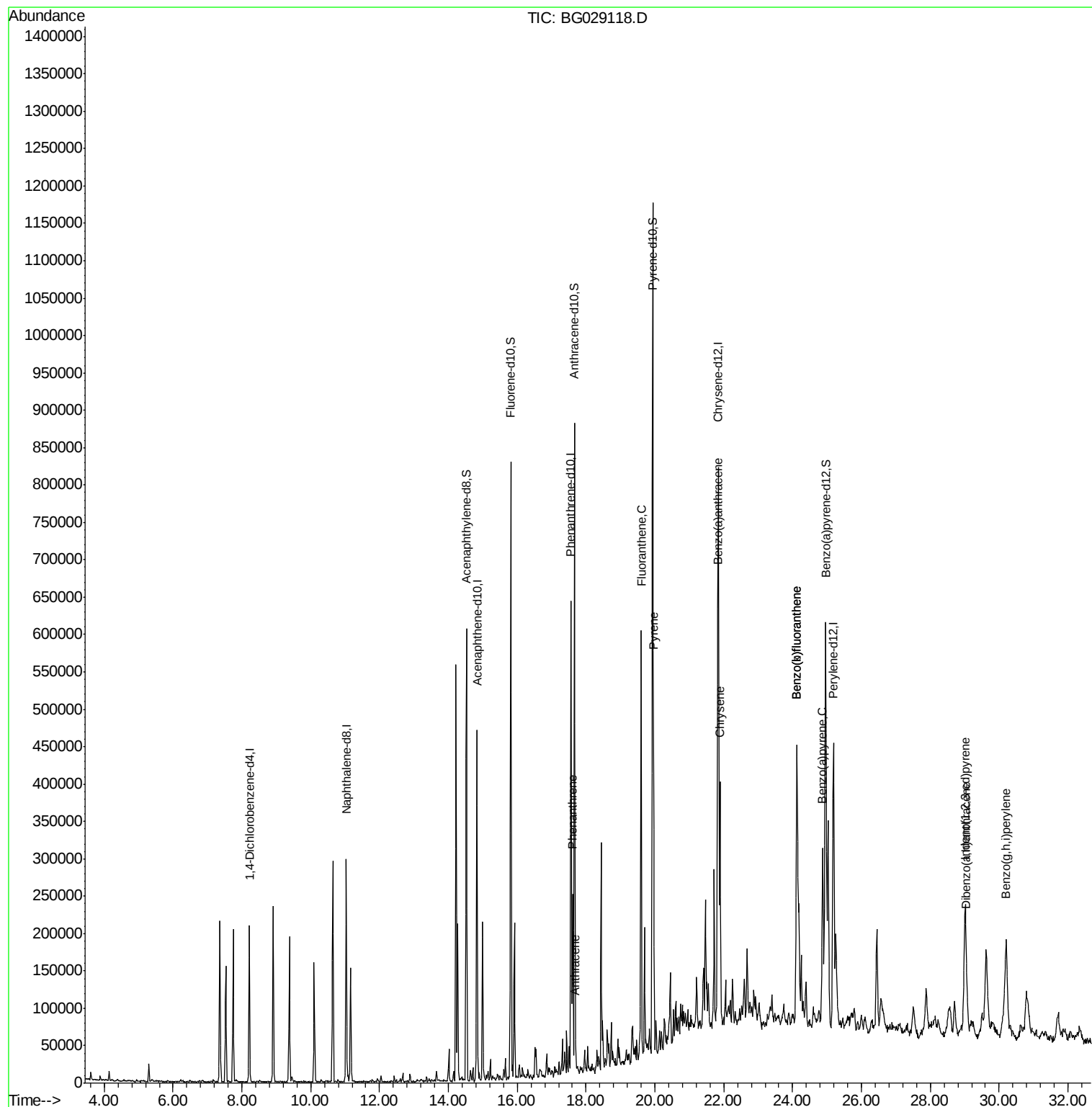
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Ovalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 13) Phenanthrene           | 17.60 | 178  | 151531   | 7.358  | ng/ul  | 99     |
| 15) Anthracene             | 17.69 | 178  | 22445    | 1.065  | ng/ul  | 95     |
| 16) Fluoranthene           | 19.60 | 202  | 346531   | 14.355 | ng/ul# | 90     |
| 19) Pyrene                 | 19.96 | 202  | 300715   | 11.707 | ng/ul# | 90     |
| 20) Benzo(a)anthracene     | 21.82 | 228  | 210896   | 8.690  | ng/ul  | 98     |
| 21) Chrysene               | 21.89 | 228  | 253301   | 11.399 | ng/ul  | 98     |
| 23) Benzo(b)fluoranthene   | 24.12 | 252  | 484141   | 18.914 | ng/ul# | 98     |
| 24) Benzo(k)fluoranthene   | 24.12 | 252  | 506056   | 20.256 | ng/ul# | 98     |
| 26) Benzo(a)pyrene         | 24.87 | 252  | 233903   | 9.408  | ng/ul  | 98     |
| 27) Indeno(1,2,3-cd)pyrene | 29.01 | 276  | 316360   | 11.212 | ng/ul# | 95     |
| 28) Dibenzo(a,h)anthracene | 29.05 | 278  | 82451    | 3.529  | ng/ul# | 92     |
| 29) Benzo(g,h,i)perylene   | 30.20 | 276  | 285446   | 12.267 | ng/ul# | 95     |

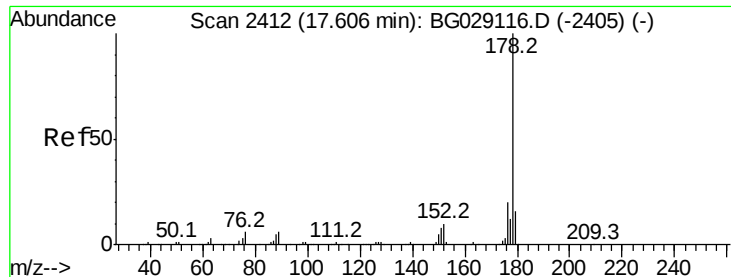
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#13

Phenanthrene

Concen: 7.358 ng/ul

RT: 17.60 min Scan# 2411

Delta R.T. -0.01 min

Lab File: BG029118.D

Acq: 9 Oct 2017 21:57

Instrument :

BNA\_G

ClientSampleId :

DAH99

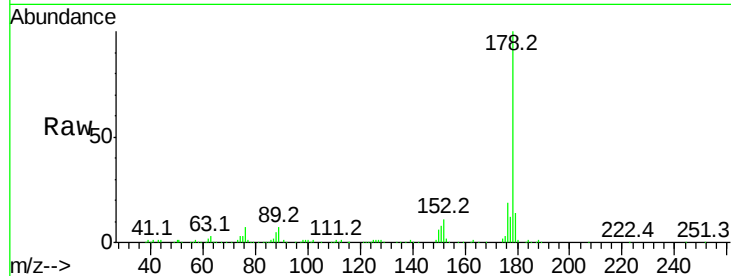
Tot Ion:178 Resp: 151531

Ion Ratio Lower Upper

178 100

179 14.4 12.3 18.5

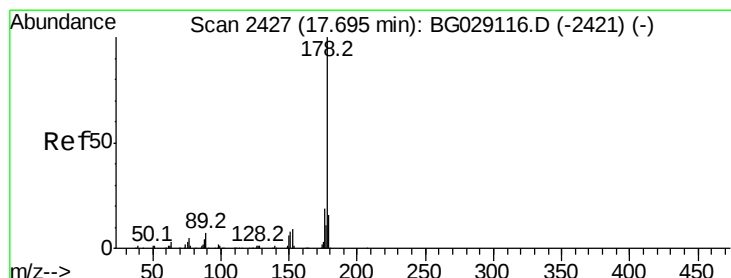
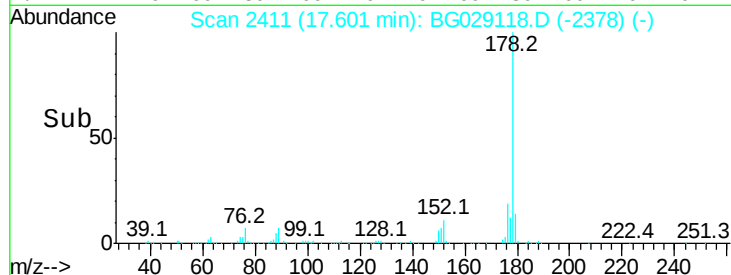
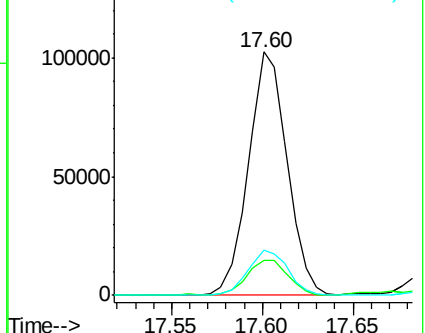
176 18.5 15.1 22.7



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E



#15

Anthracene

Concen: 1.065 ng/ul

RT: 17.69 min Scan# 2427

Delta R.T. 0.00 min

Lab File: BG029118.D

Acq: 9 Oct 2017 21:57

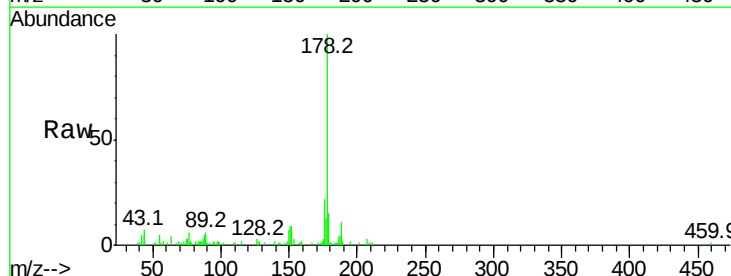
Tgt Ion:178 Resp: 22445

Ion Ratio Lower Upper

178 100

179 14.5 11.8 17.8

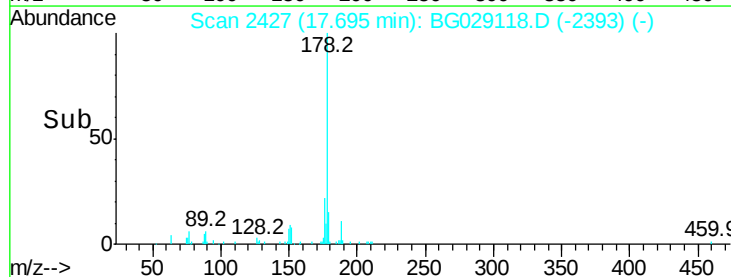
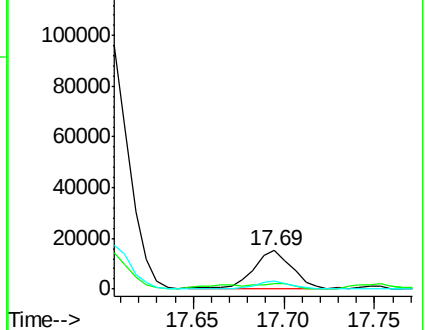
176 22.5 15.2 22.8

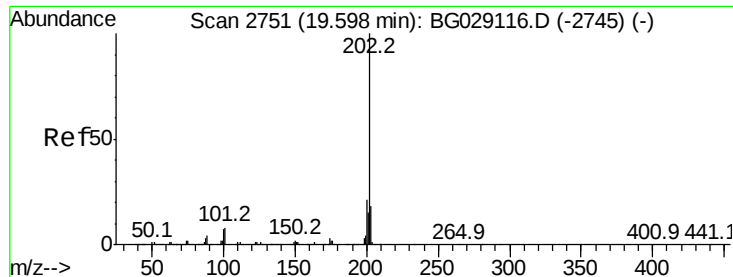


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

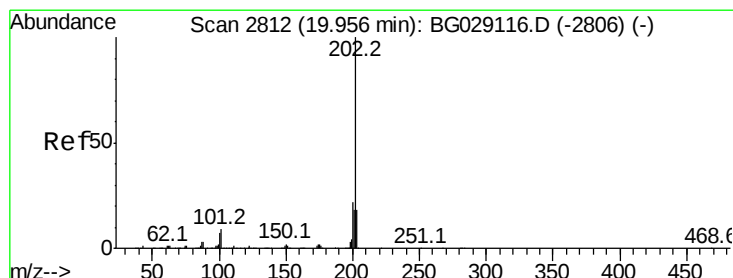
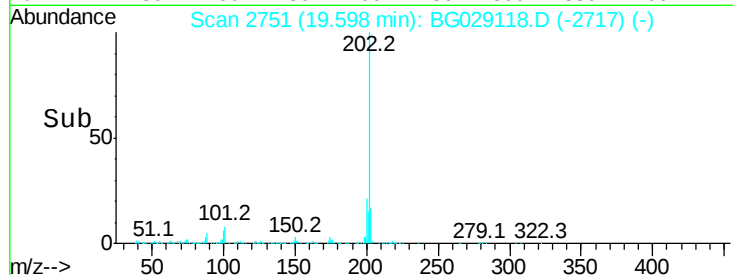
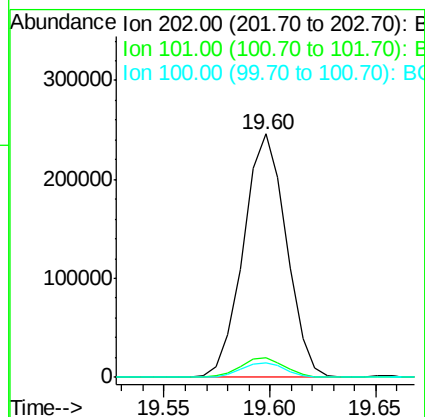
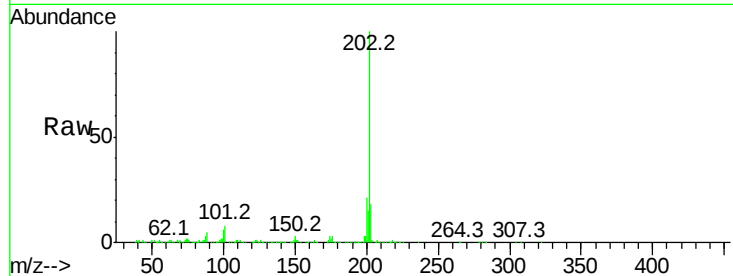




#16  
 Fluoranthene  
 Concen: 14.355 ng/ul  
 RT: 19.60 min Scan# 2751  
 Delta R.T. 0.00 min  
 Lab File: BG029118.D  
 Acq: 9 Oct 2017 21:57

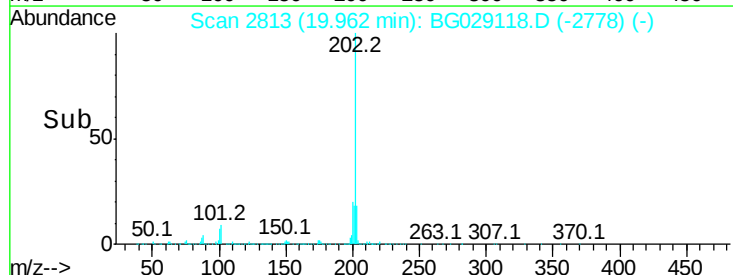
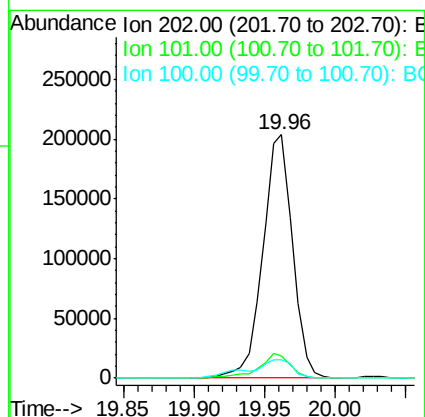
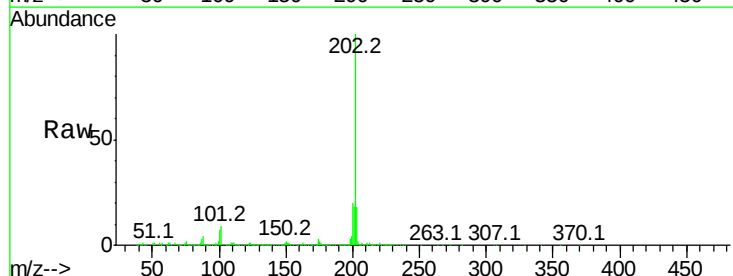
Instrument :  
 BNA\_G  
 ClientSampleId :  
 DAH99

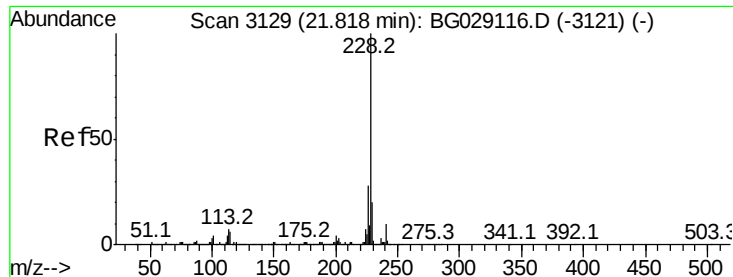
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.1   | 9.9   | 14.9# |
| 100     | 5.9   | 7.4   | 11.0# |



#19  
 Pyrene  
 Concen: 11.707 ng/ul  
 RT: 19.96 min Scan# 2813  
 Delta R.T. 0.01 min  
 Lab File: BG029118.D  
 Acq: 9 Oct 2017 21:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.0   | 11.0  | 16.4# |
| 100     | 7.3   | 8.1   | 12.1# |





#20

Benzo(a)anthracene

Concen: 8.690 ng/ul

RT: 21.82 min Scan# 3129

Delta R.T. 0.00 min

Lab File: BG029118.D

Acq: 9 Oct 2017 21:57

Instrument :

BNA\_G

ClientSampleId :

DAH99

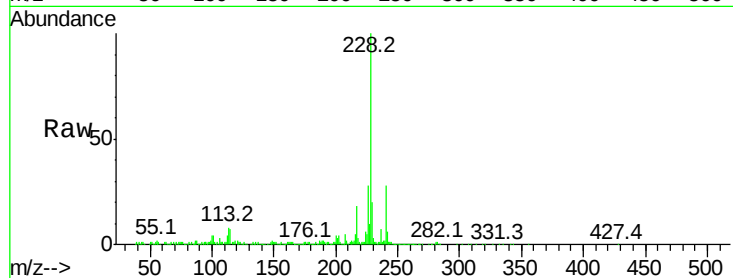
Tot Ion:228 Resp: 210896

Ion Ratio Lower Upper

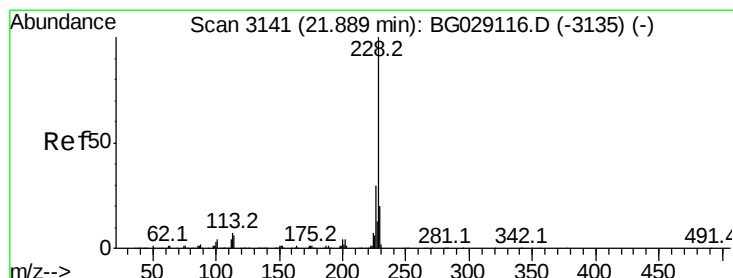
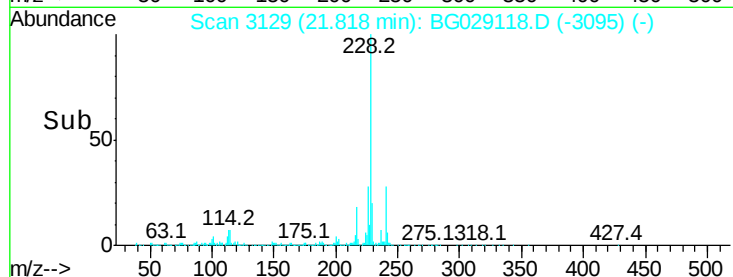
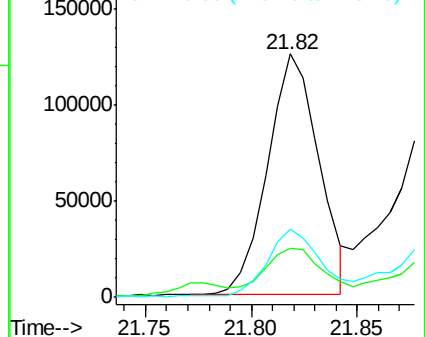
228 100

229 20.4 15.7 23.5

226 27.9 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: 11.399 ng/ul

RT: 21.89 min Scan# 3141

Delta R.T. 0.00 min

Lab File: BG029118.D

Acq: 9 Oct 2017 21:57

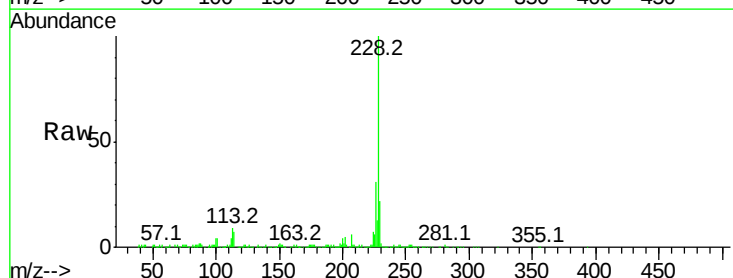
Tgt Ion:228 Resp: 253301

Ion Ratio Lower Upper

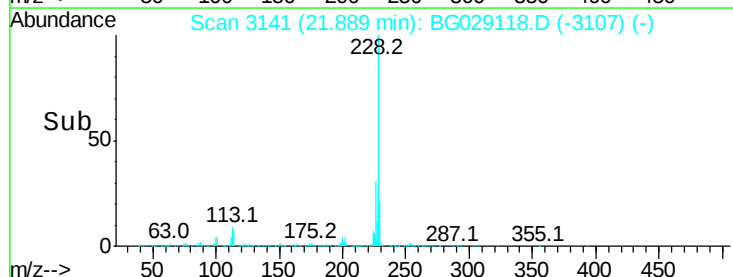
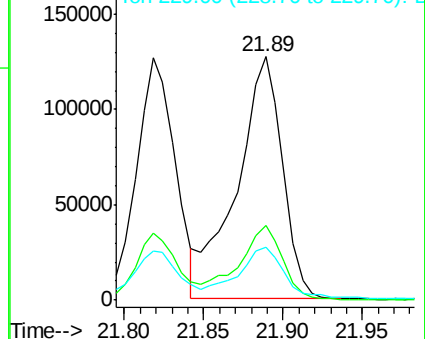
228 100

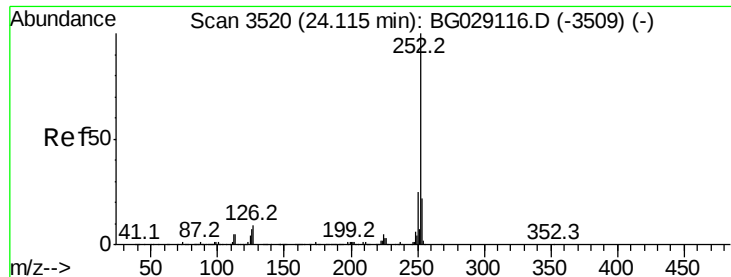
226 30.8 24.5 36.7

229 21.9 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: 18.914 ng/ul

RT: 24.12 min Scan# 3521

Delta R.T. 0.01 min

Lab File: BG029118.D

Acq: 9 Oct 2017 21:57

Instrument :

BNA\_G

ClientSampleId :

DAH99

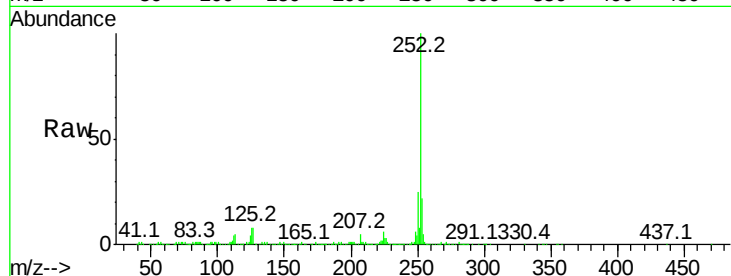
Tot Ion:252 Resp: 484141

Ion Ratio Lower Upper

252 100

253 22.2 18.0 27.0

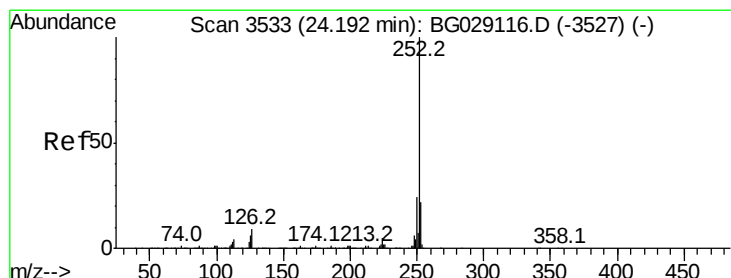
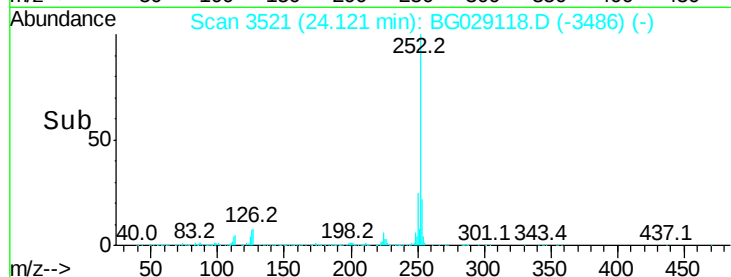
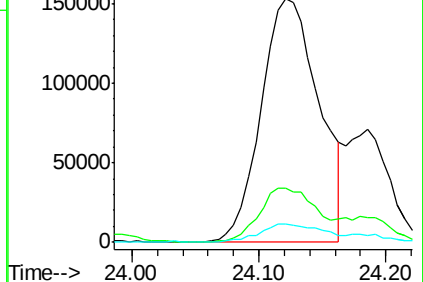
125 7.6 8.0 12.0#



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



#24

Benzo(k)fluoranthene

Concen: 20.256 ng/ul

RT: 24.12 min Scan# 3521

Delta R.T. -0.07 min

Lab File: BG029118.D

Acq: 9 Oct 2017 21:57

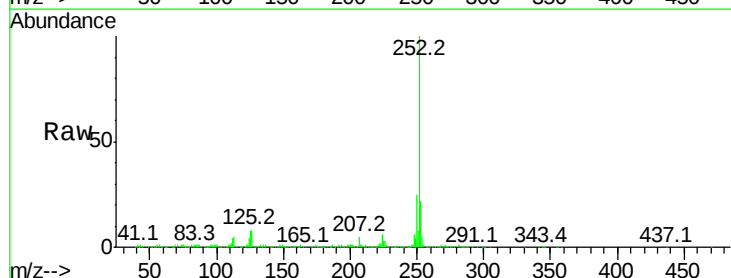
Tgt Ion:252 Resp: 506056

Ion Ratio Lower Upper

252 100

253 22.2 18.0 27.0

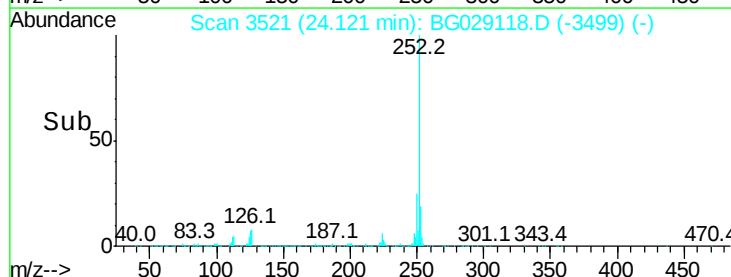
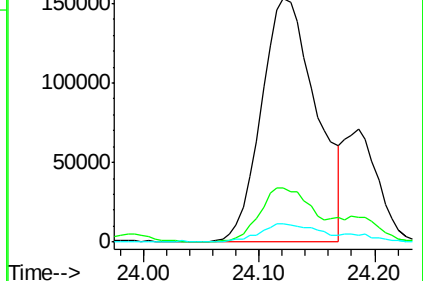
125 7.6 8.1 12.1#

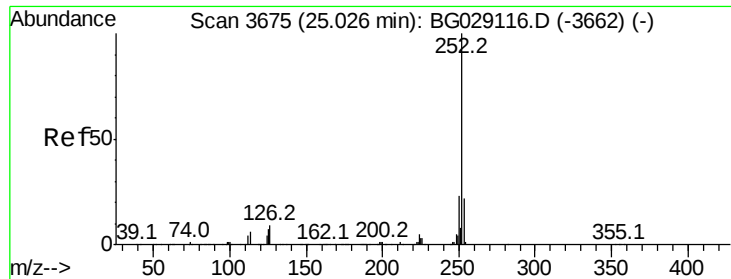


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#26

Benzo(a)pyrene

Concen: 9.408 ng/ul

RT: 24.87 min Scan# 3649

Delta R.T. -0.15 min

Lab File: BG029118.D

Acq: 9 Oct 2017 21:57

Instrument :

BNA\_G

ClientSampleId :

DAH99

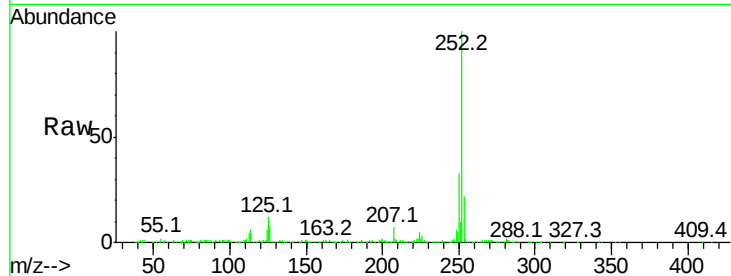
Tot Ion:252 Resp: 233903

Ion Ratio Lower Upper

252 100

253 21.9 17.2 25.8

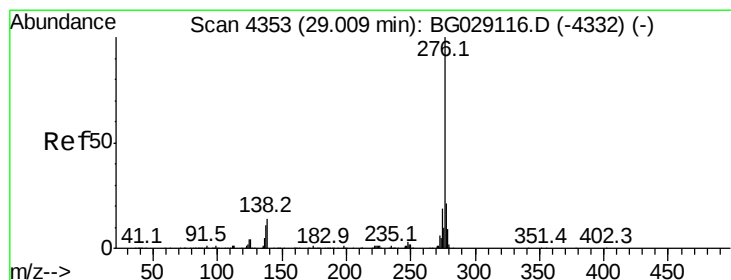
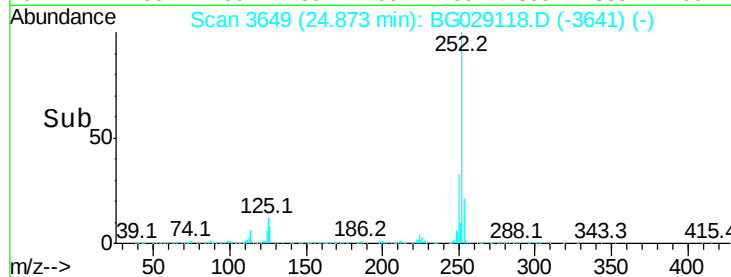
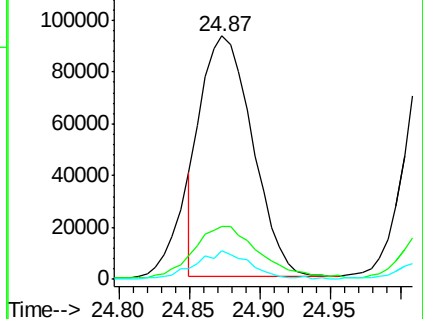
125 11.9 8.2 12.4



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: 11.212 ng/ul

RT: 29.01 min Scan# 4353

Delta R.T. 0.00 min

Lab File: BG029118.D

Acq: 9 Oct 2017 21:57

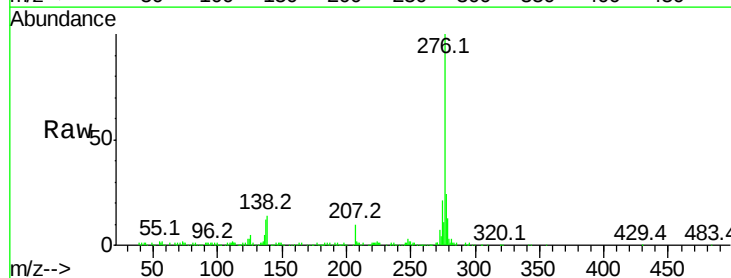
Tgt Ion:276 Resp: 316360

Ion Ratio Lower Upper

276 100

138 14.1 14.4 21.6#

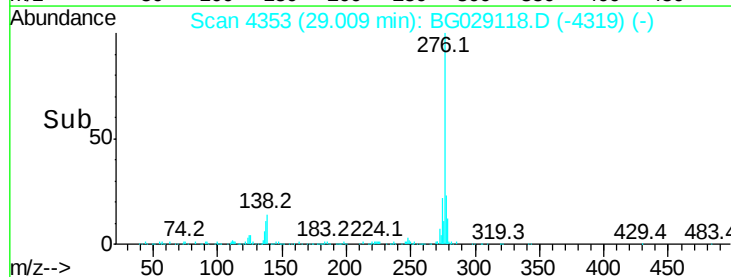
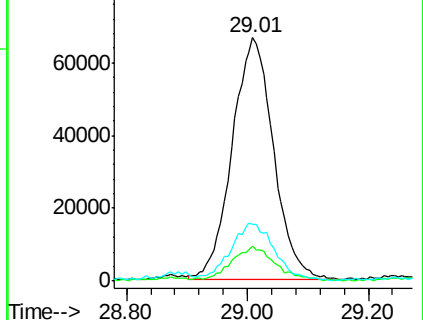
277 23.6 18.0 27.0

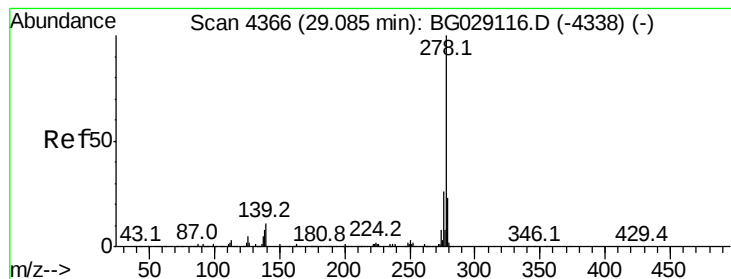


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#28

Dibenzo(a,h)anthracene

Concen: 3.529 ng/ul

RT: 29.05 min Scan# 4360

Delta R.T. -0.04 min

Lab File: BG029118.D

Acq: 9 Oct 2017 21:57

Instrument :

BNA\_G

ClientSampleId :

DAH99

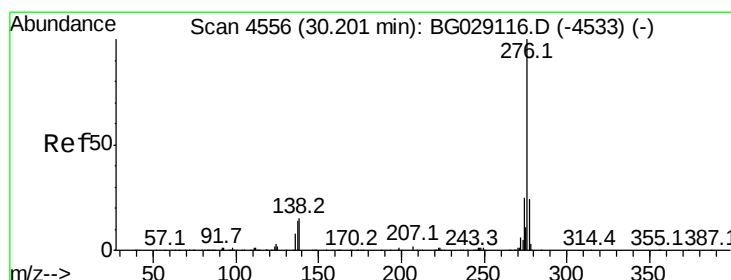
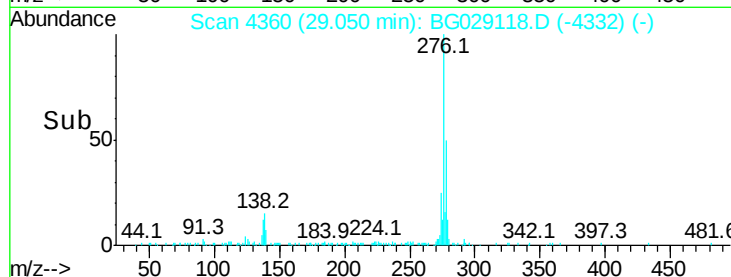
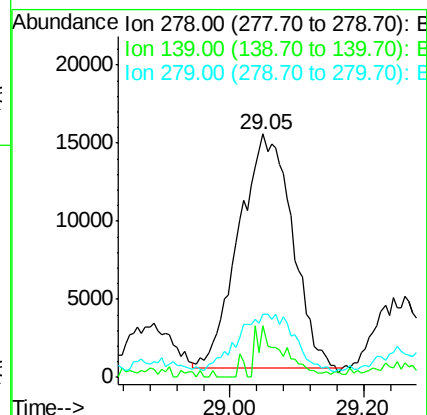
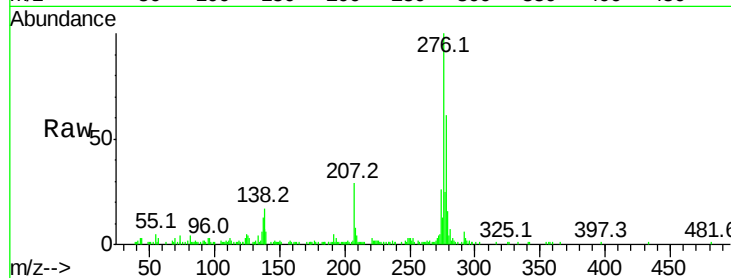
Tot Ion:278 Resp: 82451

Ion Ratio Lower Upper

278 100

139 21.1 12.2 18.4#

279 26.1 19.2 28.8



#29

Benzo(g,h,i)perylene

Concen: 12.267 ng/ul

RT: 30.20 min Scan# 4556

Delta R.T. 0.00 min

Lab File: BG029118.D

Acq: 9 Oct 2017 21:57

Tgt Ion:276 Resp: 285446

Ion Ratio Lower Upper

276 100

138 13.9 15.3 22.9#

277 23.8 19.0 28.4

