

Data Path : Z:\HPCHEM1\BNA G\DATA\BG101317\  
 Data File : BG029179.D  
 Acq On : 12 Oct 2017 00:01  
 Operator : SJ/JU  
 Sample : I5668-13  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Oct 12 08:53:56 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

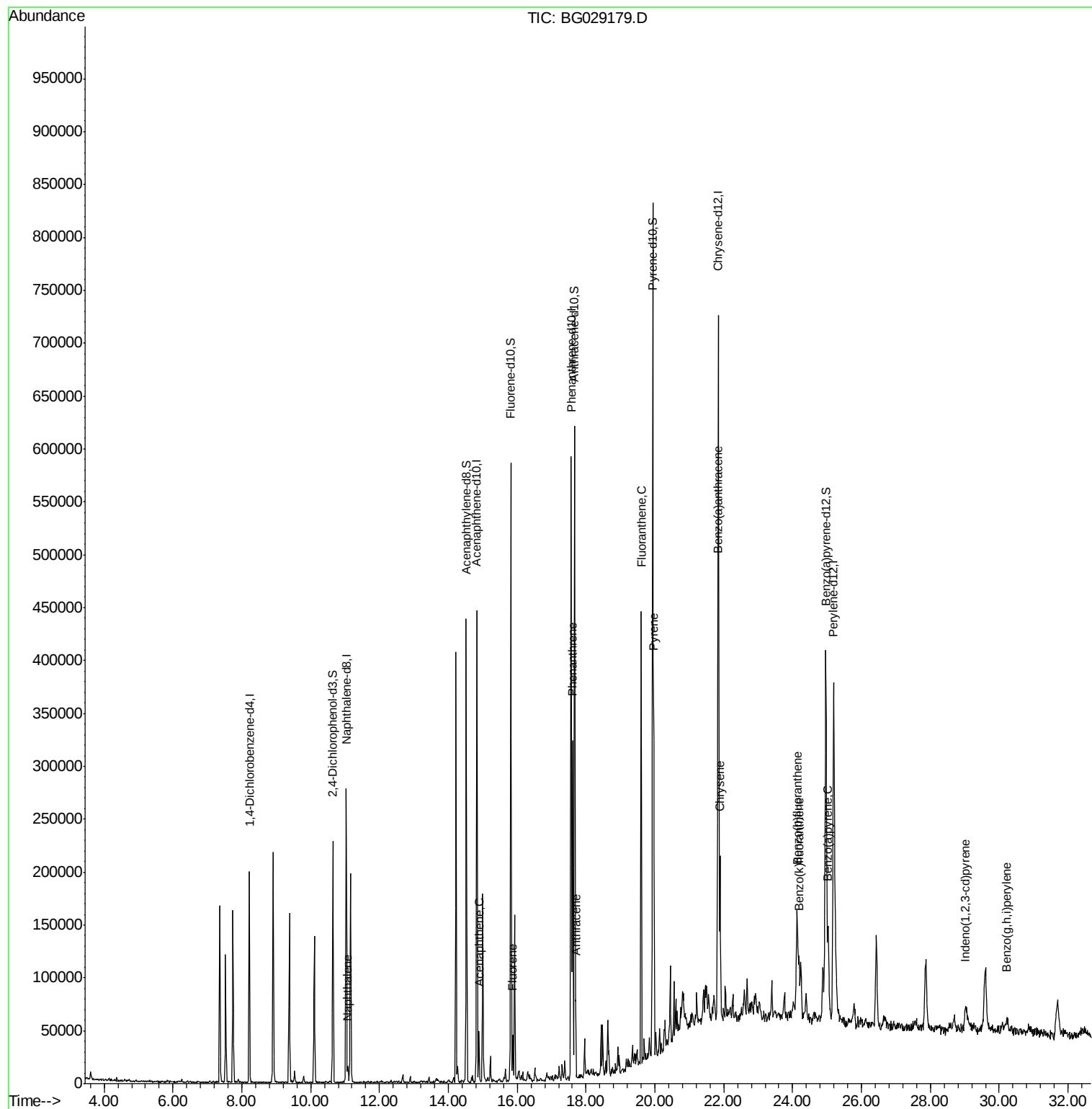
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.22  | 152  | 53811    | 20.00  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 11.03 | 136  | 232059   | 20.00  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.83 | 164  | 158281   | 20.00  | ng/ul  | 0.00     |
| 12) Phenanthrene-d10        | 17.56 | 188  | 367531   | 20.00  | ng/ul  | 0.00     |
| 18) Chrysene-d12            | 21.85 | 240  | 394166   | 20.00  | ng/ul  | 0.00     |
| 23) Perylene-d12            | 25.19 | 264  | 396954   | 20.00  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 3) 2,4-Dichlorophenol-d3    | 10.64 | 165  | 87238    | 19.67  | ng/ul  | 0.00     |
| 7) Acenaphthylene-d8        | 14.53 | 160  | 338962   | 21.36  | ng/ul  | 0.00     |
| 10) Fluorene-d10            | 15.81 | 176  | 248359   | 19.95  | ng/ul  | 0.00     |
| 15) Anthracene-d10          | 17.66 | 188  | 370892   | 20.42  | ng/ul  | 0.00     |
| 19) Pyrene-d10              | 19.93 | 212  | 441930   | 21.34  | ng/ul  | 0.00     |
| 26) Benzo(a)pyrene-d12      | 24.96 | 264  | 411389   | 20.72  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 4) Naphthalene              | 11.08 | 128  | 13081    | 1.07   | ng/ul  | 97       |
| 9) Acenaphthene             | 14.89 | 153  | 20418    | 1.91   | ng/ul  | 91       |
| 11) Fluorene                | 15.87 | 166  | 21033    | 1.71   | ng/ul# | 98       |
| 14) Phenanthrene            | 17.60 | 178  | 207049   | 10.40  | ng/ul  | 99       |
| 16) Anthracene              | 17.70 | 178  | 47800    | 2.34   | ng/ul  | 97       |
| 17) Fluoranthene            | 19.60 | 202  | 269971   | 11.52  | ng/ul  | 98       |
| 20) Pyrene                  | 19.96 | 202  | 215939   | 9.04   | ng/ul  | 99       |
| 21) Benzo(a)anthracene      | 21.82 | 228  | 125205   | 5.21   | ng/ul  | 99       |
| 22) Chrysene                | 21.89 | 228  | 120689   | 5.57   | ng/ul  | 99       |
| 24) Benzo(b)fluoranthene    | 24.13 | 252  | 144717   | 5.92   | ng/ul  | 94       |
| 25) Benzo(k)fluoranthene    | 24.19 | 252  | 45275    | 1.88   | ng/ul  | 98       |
| 27) Benzo(a)pyrene          | 25.03 | 252  | 95849    | 4.02   | ng/ul  | 97       |
| 28) Indeno(1,2,3-cd)pyrene  | 29.02 | 276  | 43915    | 1.93   | ng/ul# | 84       |
| 30) Benzo(g,h,i)perylene    | 30.21 | 276  | 30370    | 1.91   | ng/ul  | 96       |

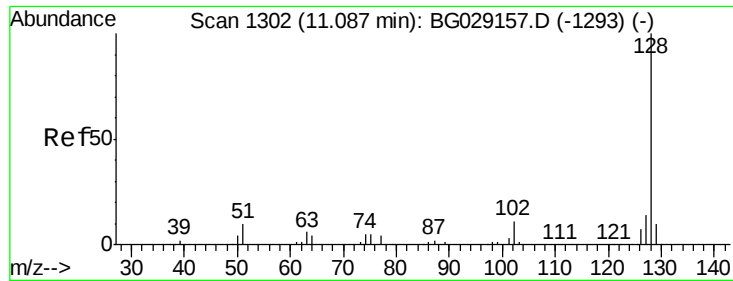
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampled :

Quant Time: Oct 12 08:53:56 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





#4

Naphthalene

Concen: 1.07 ng/ul

RT: 11.08 min Scan# 1301

Delta R.T. -0.00 min

Lab File: BG029179.D

Acq: 12 Oct 2017 00:01

Instrument :

BNA\_G

ClientSampled :

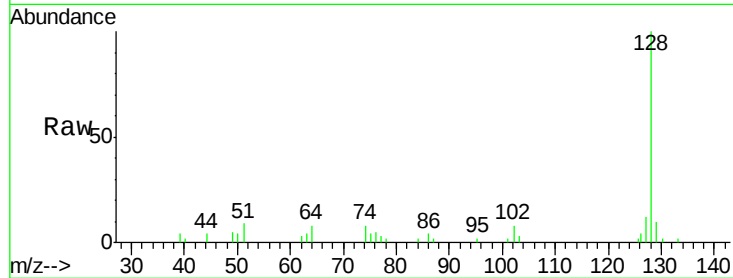
Tot Ion:128 Resp: 13081

Ion Ratio Lower Upper

128 100

129 9.7 9.0 13.4

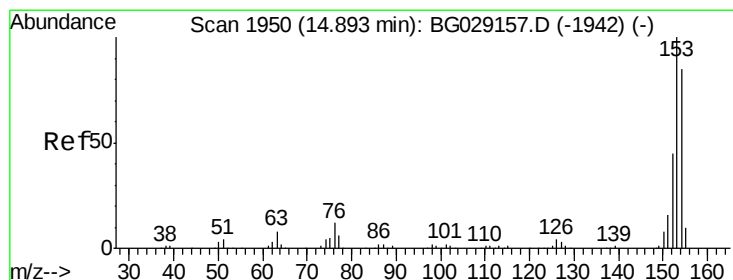
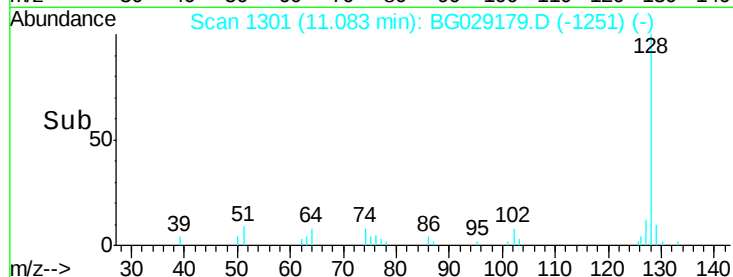
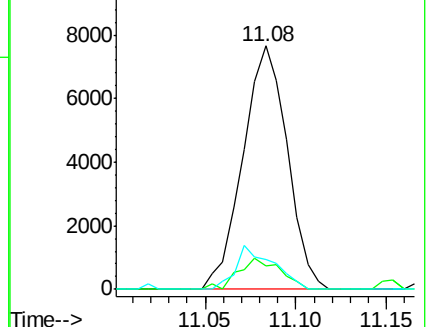
127 12.3 10.6 15.8



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#9

Acenaphthene

Concen: 1.91 ng/ul

RT: 14.89 min Scan# 1949

Delta R.T. -0.00 min

Lab File: BG029179.D

Acq: 12 Oct 2017 00:01

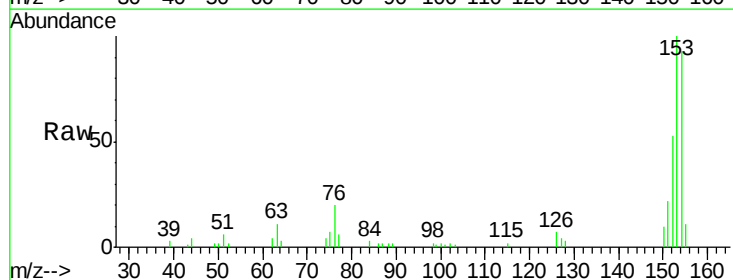
Tgt Ion:153 Resp: 20418

Ion Ratio Lower Upper

153 100

152 53.2 36.2 54.4

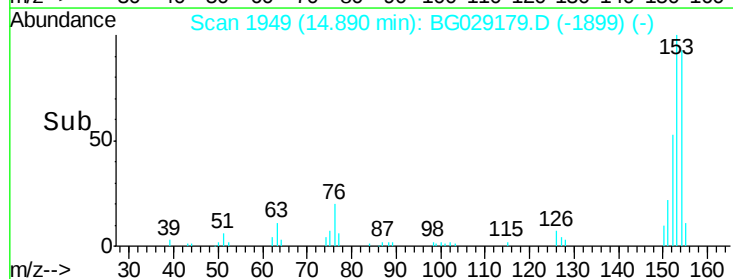
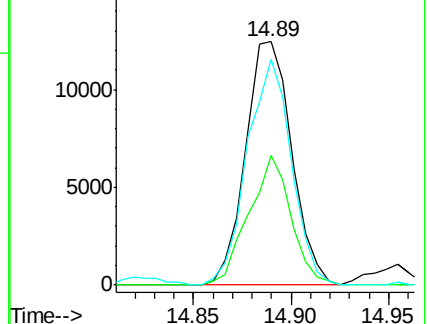
154 92.8 68.4 102.6

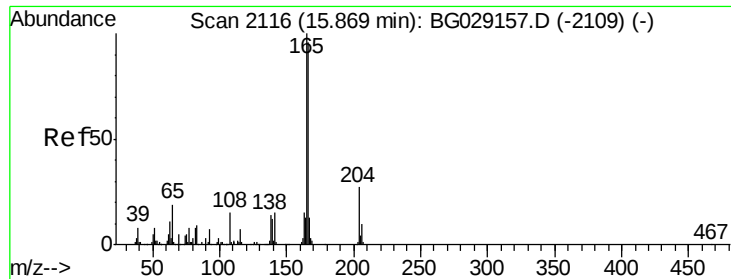


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#11

Fluorene

Concen: 1.71 ng/ul

RT: 15.87 min Scan# 2116

Delta R.T. 0.00 min

Lab File: BG029179.D

Acq: 12 Oct 2017 00:01

Instrument :

BNA\_G

ClientSampleId :

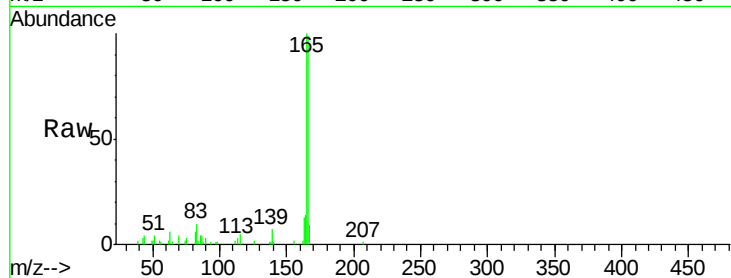
Tot Ion:166 Resp: 21033

Ion Ratio Lower Upper

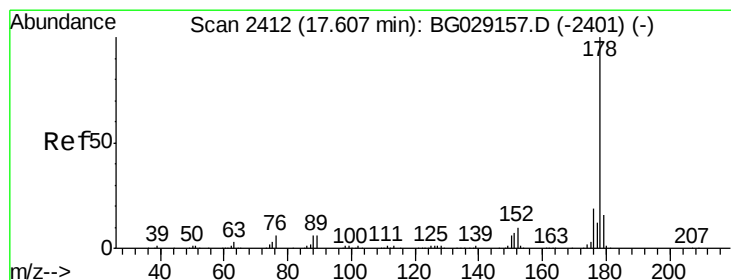
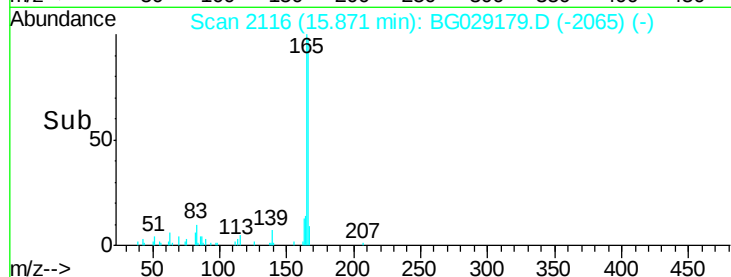
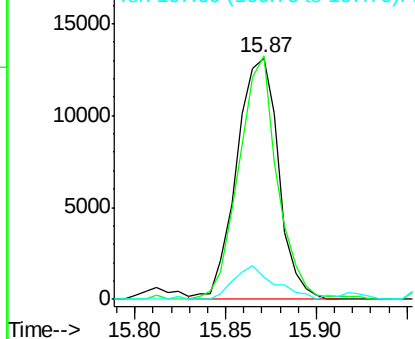
166 100

165 100.8 79.4 119.0

167 9.2 10.2 15.4#



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E



#14

Phenanthrene

Concen: 10.40 ng/ul

RT: 17.60 min Scan# 2411

Delta R.T. -0.00 min

Lab File: BG029179.D

Acq: 12 Oct 2017 00:01

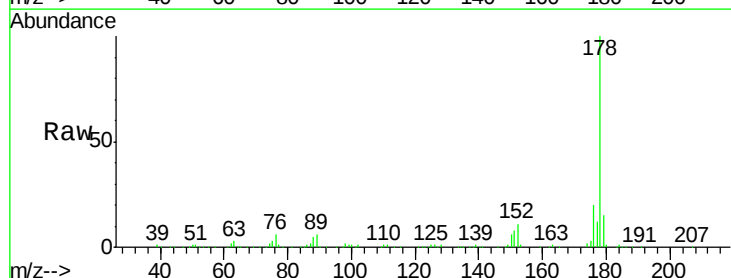
Tgt Ion:178 Resp: 207049

Ion Ratio Lower Upper

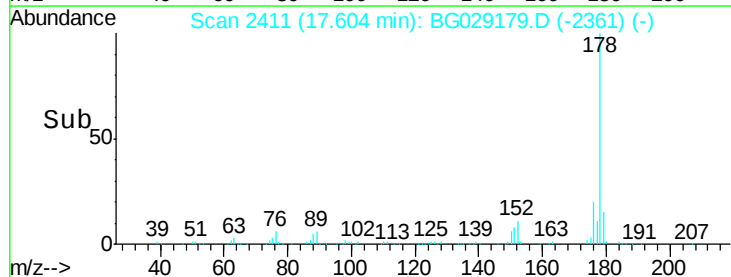
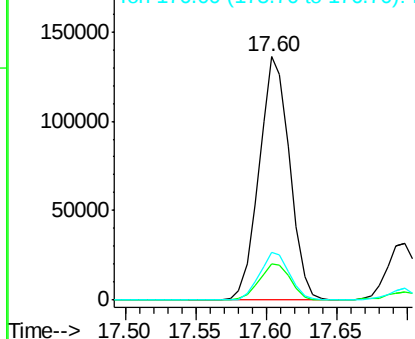
178 100

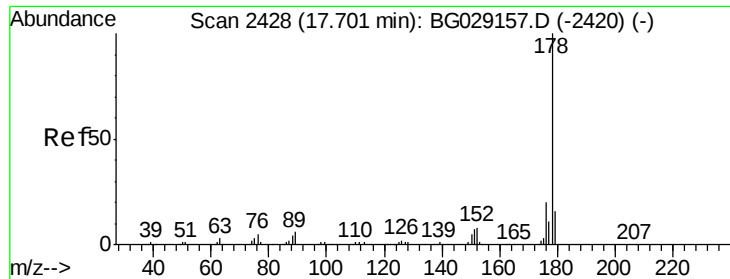
179 15.0 12.2 18.2

176 19.7 15.0 22.6



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

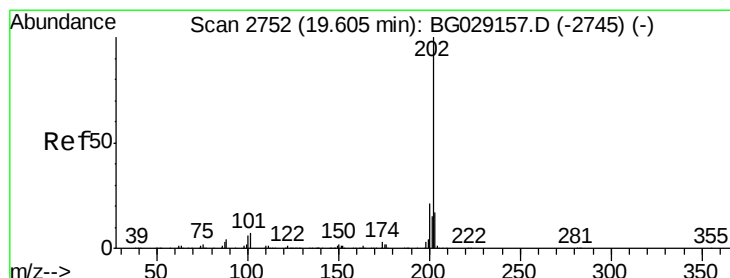
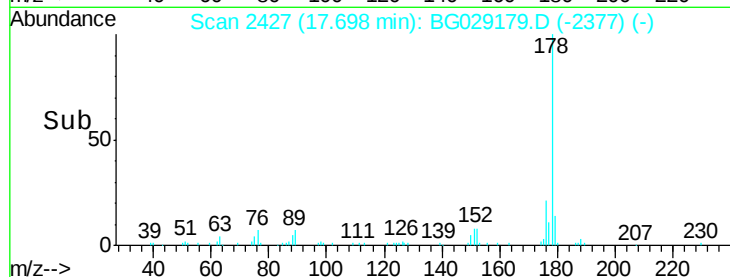
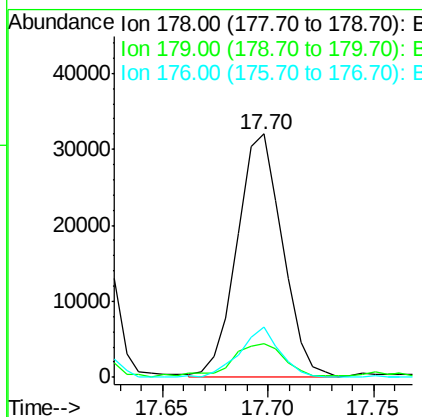
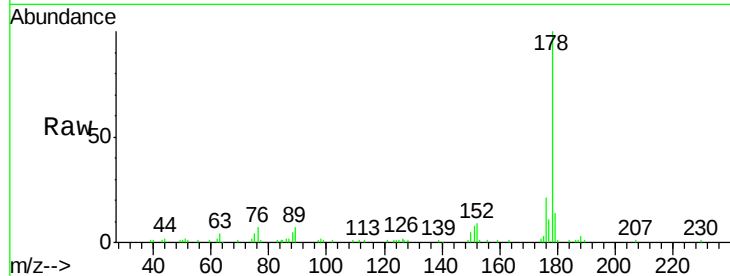




#16  
 Anthracene  
 Concen: 2.34 ng/ul  
 RT: 17.70 min Scan# 2427  
 Delta R.T. -0.00 min  
 Lab File: BG029179.D  
 Acq: 12 Oct 2017 00:01

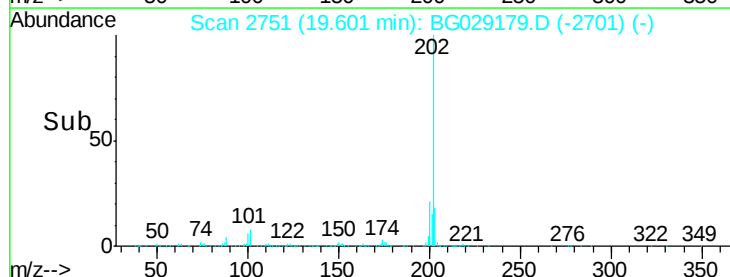
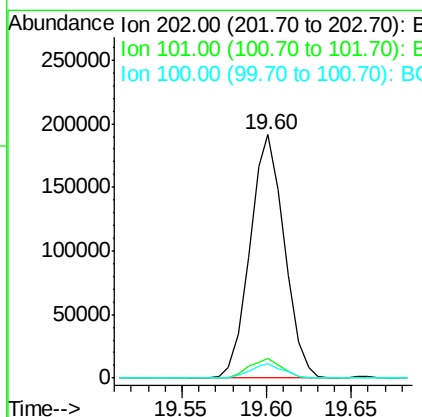
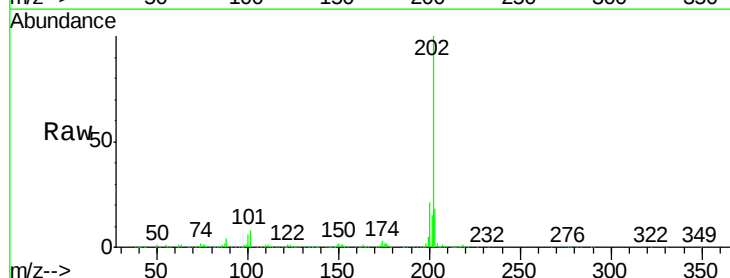
Instrument :  
 BNA\_G  
 ClientSampleId :

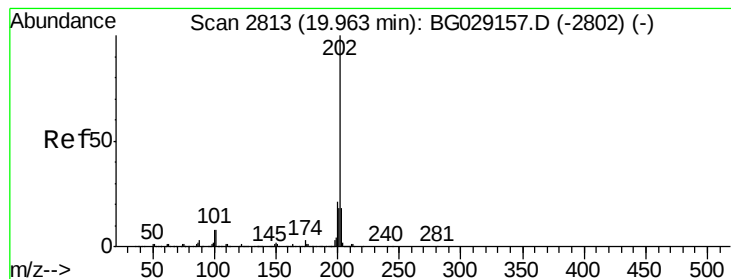
Tot Ion:178 Resp: 47800  
 Ion Ratio Lower Upper  
 178 100  
 179 14.0 12.5 18.7  
 176 20.6 15.7 23.5



#17  
 Fluoranthene  
 Concen: 11.52 ng/ul  
 RT: 19.60 min Scan# 2751  
 Delta R.T. -0.00 min  
 Lab File: BG029179.D  
 Acq: 12 Oct 2017 00:01

Tgt Ion:202 Resp: 269971  
 Ion Ratio Lower Upper  
 202 100  
 101 8.2 5.6 8.4  
 100 6.2 4.7 7.1





#20

Pvrene

Concen: 9.04 ng/ul

RT: 19.96 min Scan# 2812

Delta R.T. -0.00 min

Lab File: BG029179.D

Acq: 12 Oct 2017 00:01

Instrument :

BNA\_G

ClientSampleId :

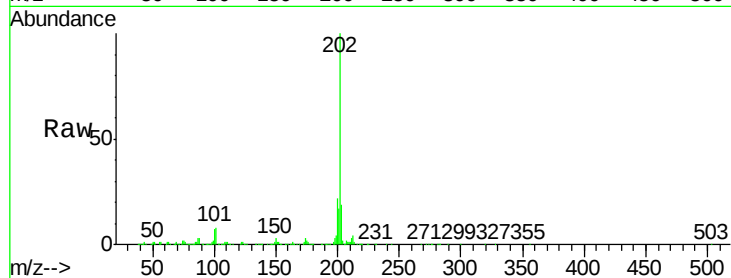
Tot Ion:202 Resp: 215939

Ion Ratio Lower Upper

202 100

101 8.0 6.5 9.7

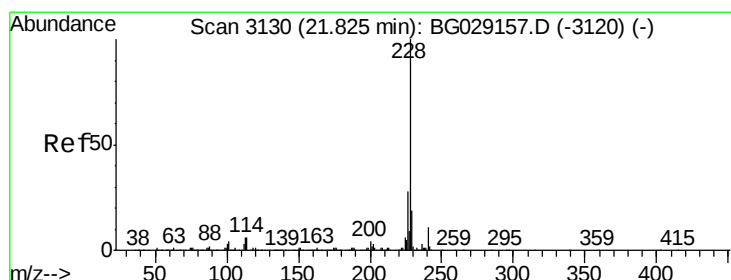
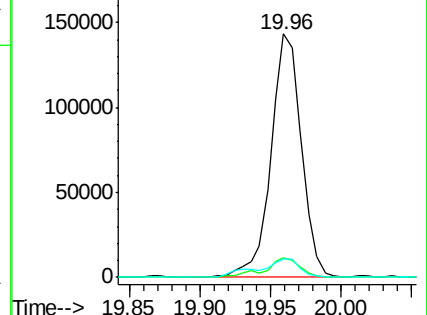
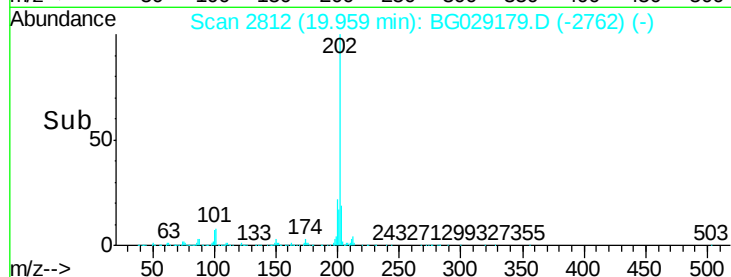
100 7.3 5.5 8.3



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B



#21

Benzo(a)anthracene

Concen: 5.21 ng/ul

RT: 21.82 min Scan# 3129

Delta R.T. -0.00 min

Lab File: BG029179.D

Acq: 12 Oct 2017 00:01

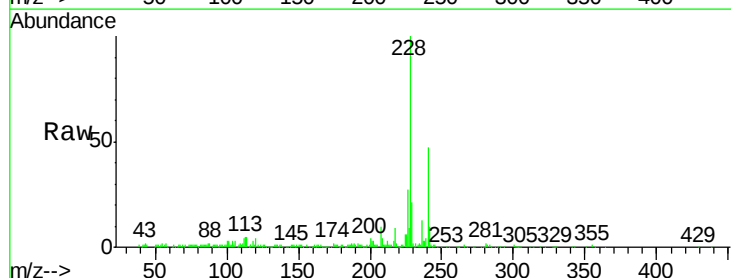
Tgt Ion:228 Resp: 125205

Ion Ratio Lower Upper

228 100

229 20.6 15.8 23.8

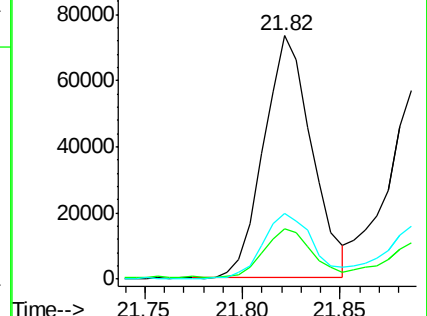
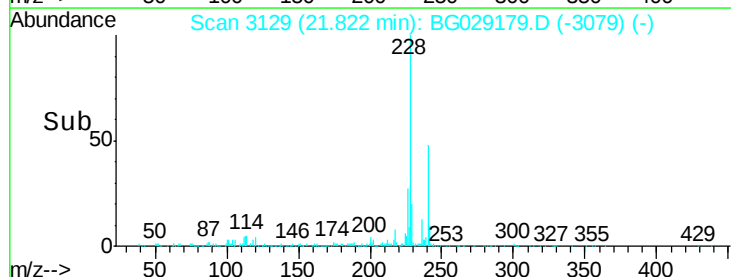
226 27.1 21.6 32.4

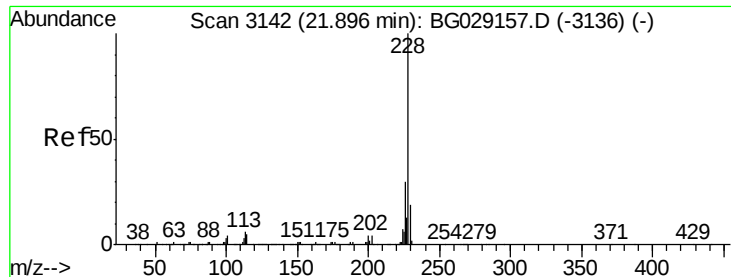


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#22

Chrysene

Concen: 5.57 ng/ul

RT: 21.89 min Scan# 3141

Delta R.T. -0.00 min

Lab File: BG029179.D

Acq: 12 Oct 2017 00:01

Instrument :

BNA\_G

ClientSampleId :

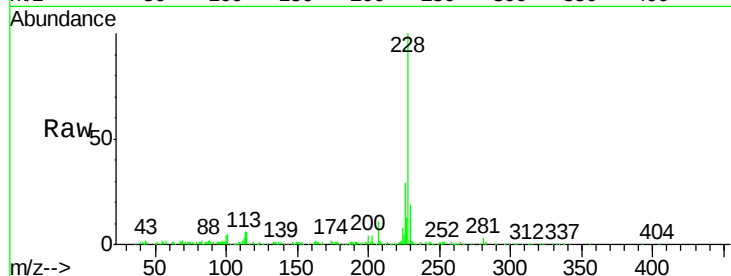
Tot Ion:228 Resp: 120689

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 228 | 100   |       |       |
| 226 | 29.4  | 23.4  | 35.0  |
| 229 | 19.0  | 15.7  | 23.5  |

228 100

226 29.4 23.4 35.0

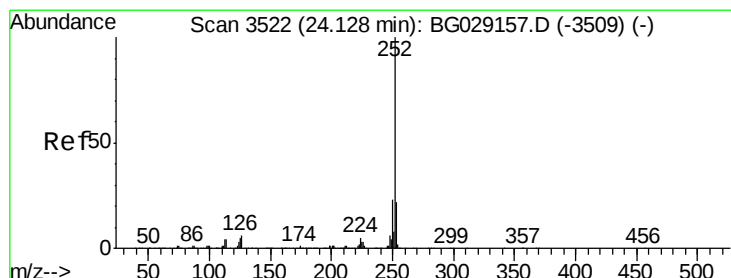
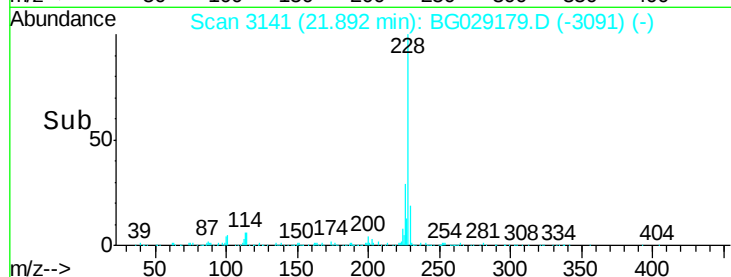
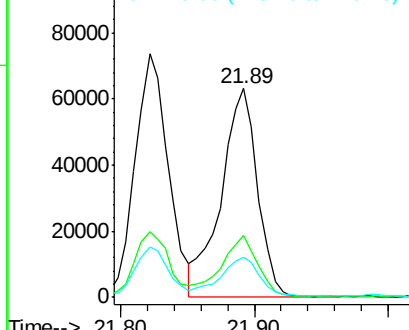
229 19.0 15.7 23.5



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



#24

Benzo(b)fluoranthene

Concen: 5.92 ng/ul

RT: 24.13 min Scan# 3522

Delta R.T. 0.00 min

Lab File: BG029179.D

Acq: 12 Oct 2017 00:01

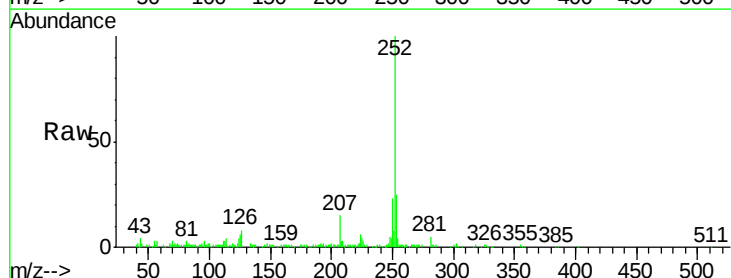
Tgt Ion:252 Resp: 144717

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 25.4  | 17.6  | 26.4  |
| 125 | 6.5   | 4.5   | 6.7   |

252 100

253 25.4 17.6 26.4

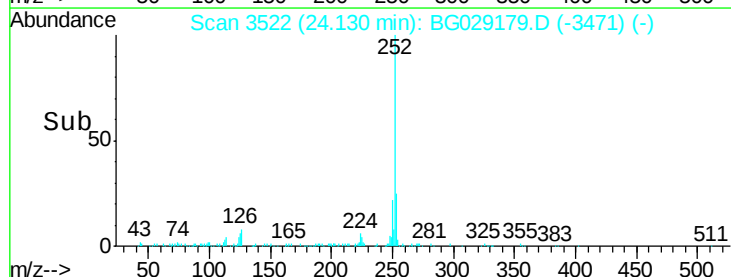
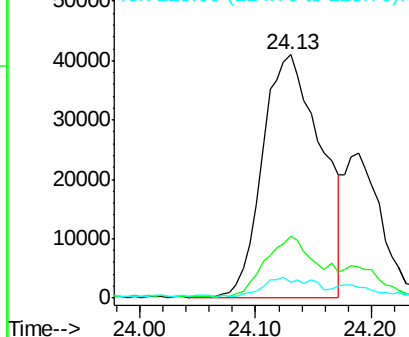
125 6.5 4.5 6.7

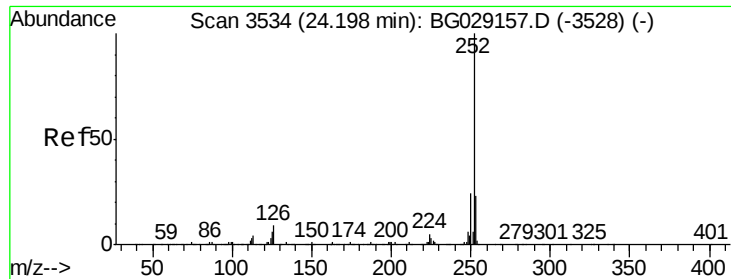


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

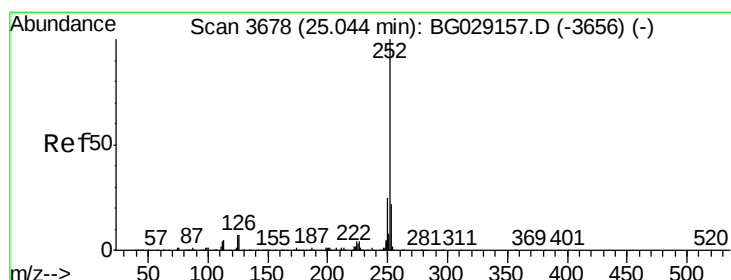
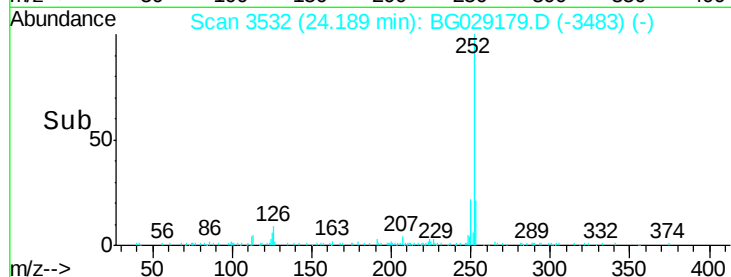
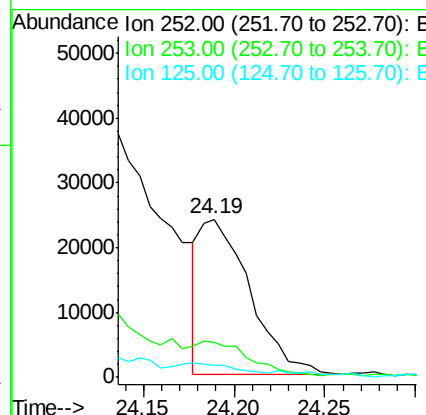
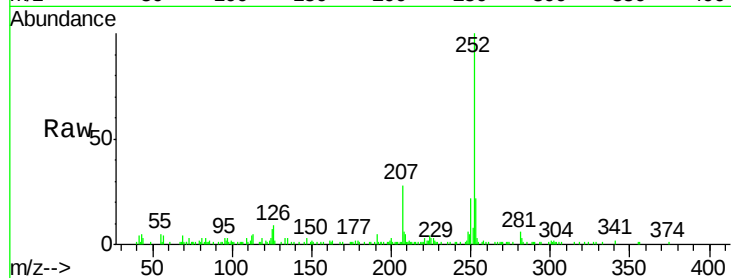




#25  
Benzo(k)fluoranthene  
Concen: 1.88 ng/ul  
RT: 24.19 min Scan# 3532  
Delta R.T. -0.01 min  
Lab File: BG029179.D  
Acq: 12 Oct 2017 00:01

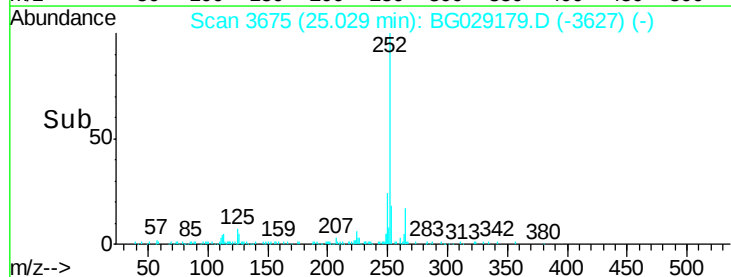
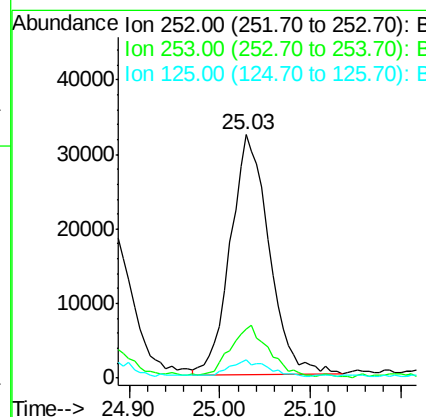
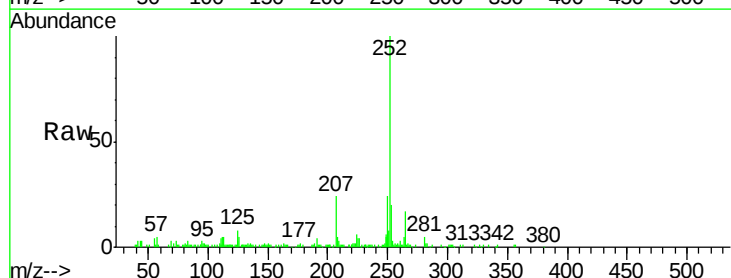
Instrument :  
BNA\_G  
ClientSampleId :

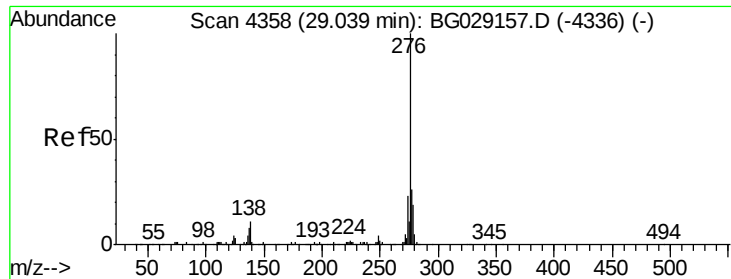
Tot Ion:252 Resp: 45275  
Ion Ratio Lower Upper  
252 100  
253 21.7 16.8 25.2  
125 7.3 5.1 7.7



#27  
Benzo(a)pyrene  
Concen: 4.02 ng/ul  
RT: 25.03 min Scan# 3675  
Delta R.T. -0.02 min  
Lab File: BG029179.D  
Acq: 12 Oct 2017 00:01

Tgt Ion:252 Resp: 95849  
Ion Ratio Lower Upper  
252 100  
253 20.3 17.6 26.4  
125 7.6 5.4 8.2





#28

Indeno(1,2,3-cd)pyrene

Concen: 1.93 ng/ul

RT: 29.02 min Scan# 4354

Delta R.T. -0.02 min

Lab File: BG029179.D

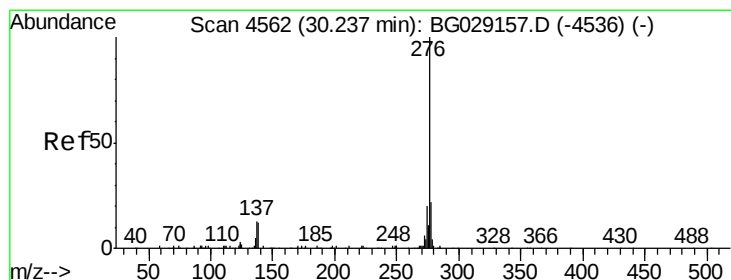
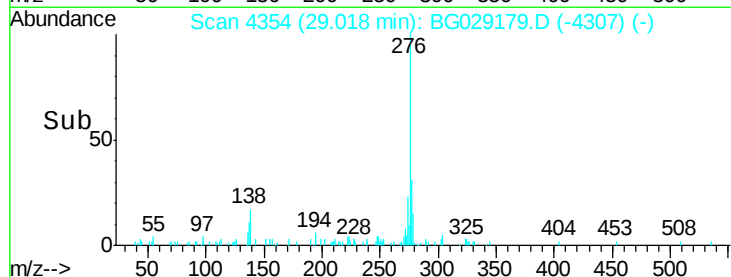
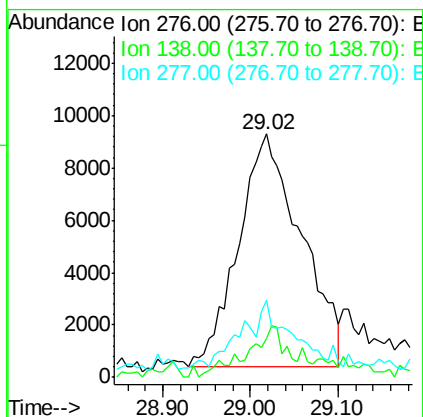
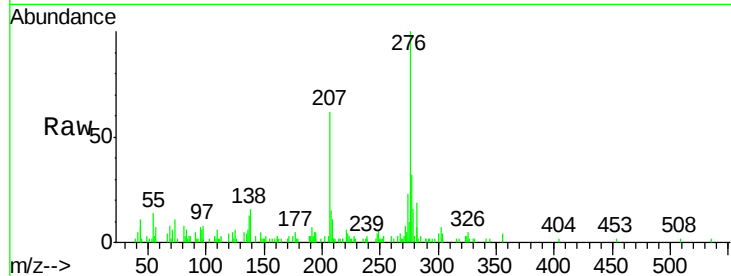
Acq: 12 Oct 2017 00:01

Instrument :

BNA\_G

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 276   | Resp: | 43915 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 138      | 16.0  | 9.5   | 14.3# |
| 277      | 31.5  | 18.1  | 27.1# |



#30

Benzo(g,h,i)perylene

Concen: 1.91 ng/ul

RT: 30.21 min Scan# 4557

Delta R.T. -0.03 min

Lab File: BG029179.D

Acq: 12 Oct 2017 00:01

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 30370 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 138      | 13.8  | 9.3   | 13.9  |
| 277      | 24.0  | 17.9  | 26.9  |

