

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG051216\  
 Data File : BG021880.D  
 Acq On : 12 May 2016 22:36  
 Operator : UM/SJ  
 Sample : H2936-18  
 Misc :  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9WK7

Quant Time: May 13 05:02:53 2016  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG050916.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri May 13 04:58:59 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.17  | 152  | 70104    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.99 | 136  | 379667   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.80 | 164  | 233037   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.54 | 188  | 484938   | 20.00 | ng/ul | 0.00     |
| 76) Chrysene-d12          | 21.83 | 240  | 470801   | 20.00 | ng/ul | 0.00     |
| 84) Perylene-d12          | 25.17 | 264  | 476004   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.56  | 96  | 5233   | 3.60  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.32  | 99  | 134667 | 25.89 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.49  | 67  | 60395  | 23.41 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.70  | 132 | 118754 | 29.41 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.87  | 113 | 114385 | 26.18 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.34  | 128 | 63684  | 25.51 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.07 | 143 | 68354  | 43.35 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.61 | 165 | 127535 | 28.61 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.13 | 131 | 74319  | 15.48 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.20 | 166 | 392992 | 24.01 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.50 | 160 | 524293 | 22.56 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.98 | 143 | 59694  | 21.28 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.78 | 176 | 359194 | 20.84 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.90 | 200 | 40327  | 30.02 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.64 | 188 | 503400 | 21.33 | ng/ul | 0.00 |
| 77) Pyrene-d10                 | 19.91 | 212 | 511816 | 23.22 | ng/ul | 0.00 |
| 88) Benzo(a)pyrene-d12         | 24.94 | 264 | 495895 | 21.93 | ng/ul | 0.00 |

## Target Compounds

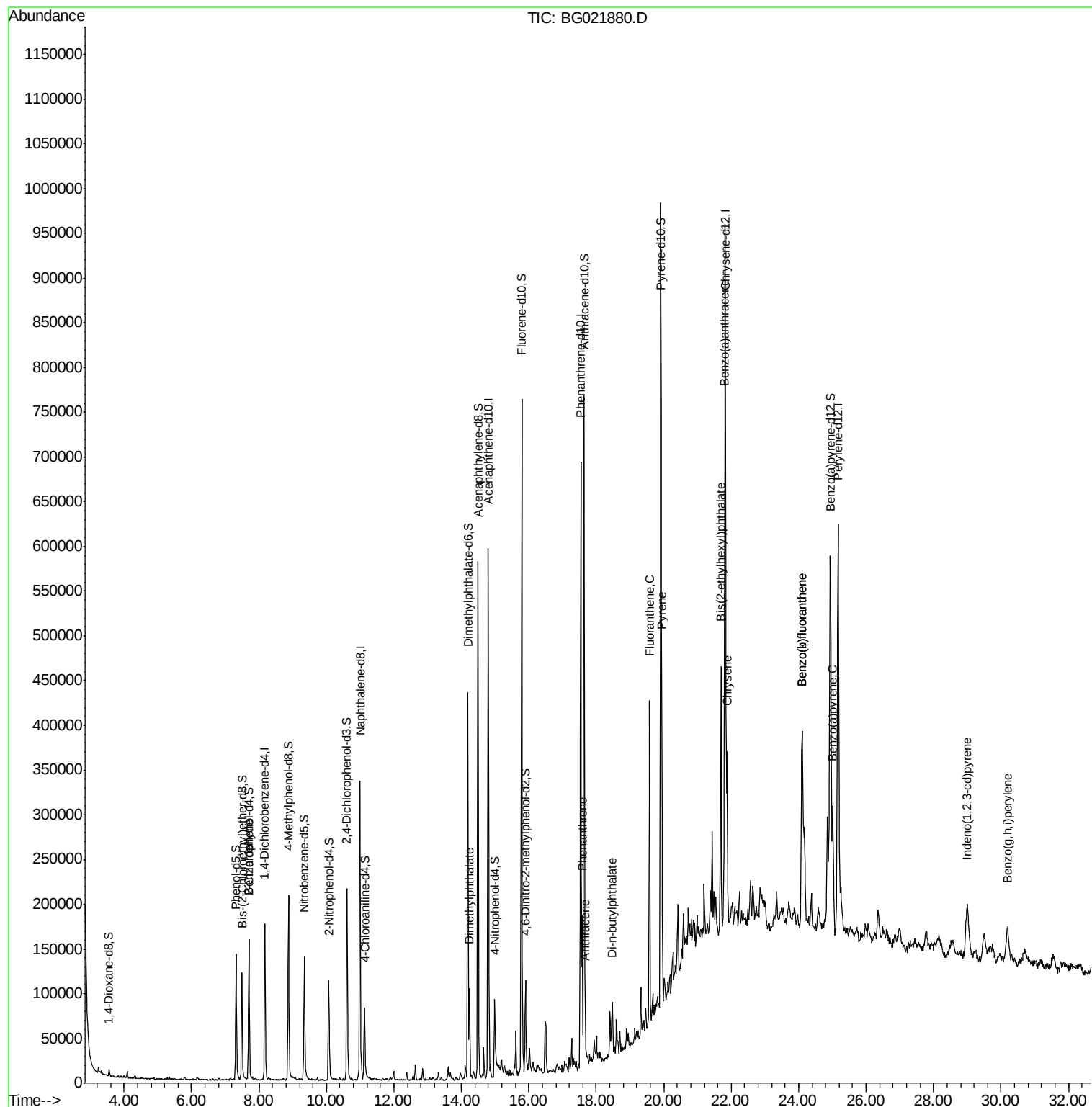
|                                |       |     |        |       |        | Qvalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 4) Benzaldehyde                | 7.70  | 77  | 1840   | 3.25  | ng/ul  | 92     |
| 45) Dimethylphthalate          | 14.24 | 163 | 81901  | 4.91  | ng/ul  | 98     |
| 70) Phenanthrene               | 17.58 | 178 | 122702 | 4.63  | ng/ul  | 97     |
| 72) Anthracene                 | 17.67 | 178 | 30574  | 1.14  | ng/ul  | 98     |
| 74) Di-n-butylphthalate        | 18.49 | 149 | 50855  | 2.40  | ng/ul# | 96     |
| 75) Fluoranthene               | 19.58 | 202 | 254071 | 8.43  | ng/ul# | 95     |
| 78) Pyrene                     | 19.94 | 202 | 227103 | 8.34  | ng/ul  | 94     |
| 81) Benzo(a)anthracene         | 21.80 | 228 | 159653 | 6.09  | ng/ul  | 96     |
| 82) Bis(2-ethylhexyl)phthalate | 21.69 | 149 | 171787 | 17.48 | ng/ul  | 96     |
| 83) Chrysene                   | 21.88 | 228 | 159616 | 6.16  | ng/ul  | 97     |
| 86) Benzo(b)fluoranthene       | 24.10 | 252 | 279161 | 10.25 | ng/ul# | 94     |
| 87) Benzo(k)fluoranthene       | 24.10 | 252 | 279161 | 9.57  | ng/ul# | 94     |
| 89) Benzo(a)pyrene             | 25.01 | 252 | 166418 | 6.14  | ng/ul# | 93     |
| 90) Indeno(1,2,3-cd)pyrene     | 28.99 | 276 | 113681 | 3.54  | ng/ul  | 96     |
| 92) Benzo(g,h,i)perylene       | 30.18 | 276 | 40845  | 1.54  | ng/ul# | 85     |

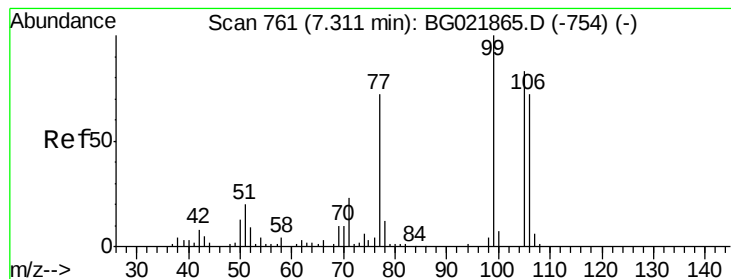
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SVOA CALIBRATION  
QLast Update : Fri May 13 04:58:59 2016  
Response via : Initial Calibration





#4

Benzaldehyde

Concen: 3.25 ng/ul

RT: 7.70 min Scan# 828

Delta R.T. 0.39 min

Lab File: BG021880.D

Acq: 12 May 2016 22:36

Instrument :

BNA\_G

ClientSampleId :

D9WK7

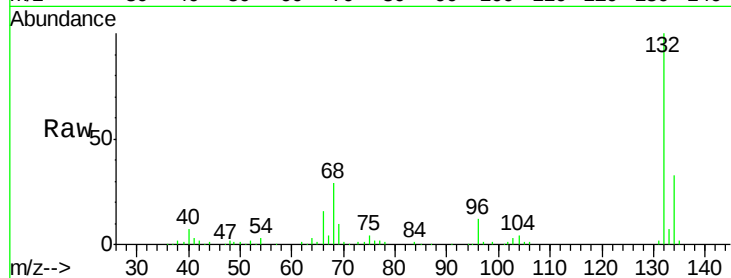
Tgt Ion: 77 Resp: 1840

Ion Ratio Lower Upper

77 100

105 93.1 68.5 102.7

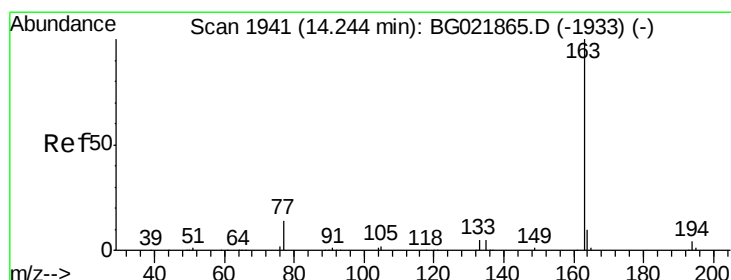
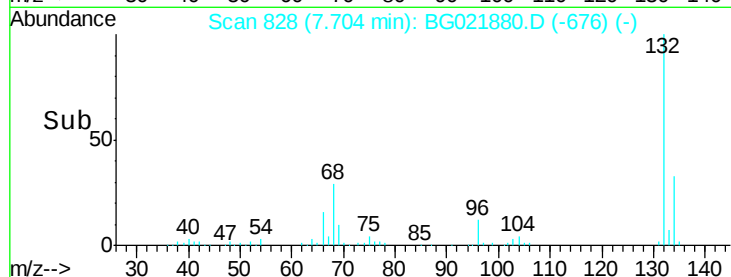
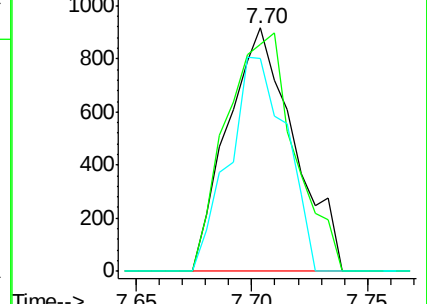
106 87.2 65.0 97.4



Abundance Ion 77.00 (76.70 to 77.70): BGC

Ion 105.00 (104.70 to 105.70): BGC

Ion 106.00 (105.70 to 106.70): BGC



#45

Dimethylphthalate

Concen: 4.91 ng/ul

RT: 14.24 min Scan# 1940

Delta R.T. -0.01 min

Lab File: BG021880.D

Acq: 12 May 2016 22:36

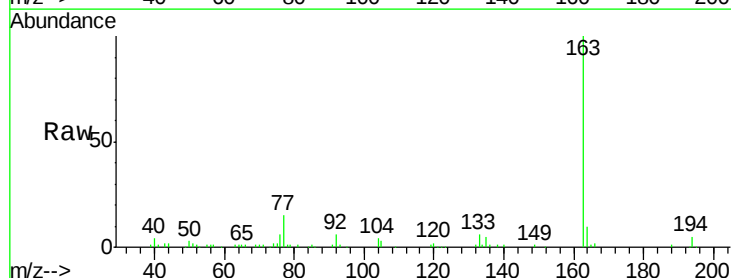
Tgt Ion: 163 Resp: 81901

Ion Ratio Lower Upper

163 100

194 4.5 3.9 5.9

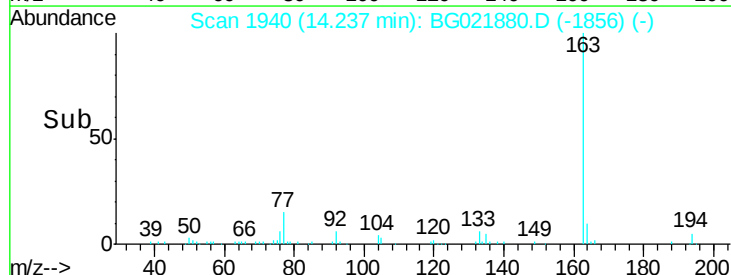
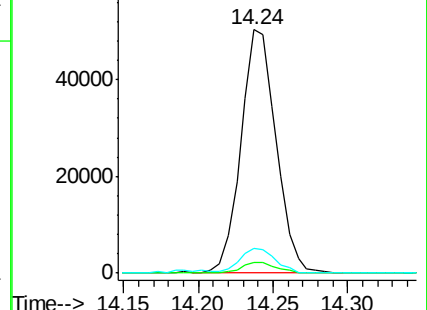
164 10.3 8.7 13.1

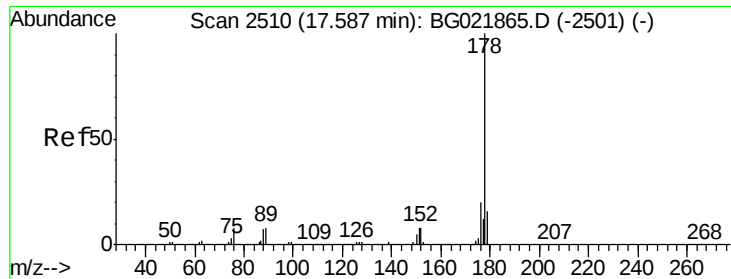


Abundance Ion 163.00 (162.70 to 163.70): BGC

Ion 194.00 (193.70 to 194.70): BGC

Ion 164.00 (163.70 to 164.70): BGC





#70

Phenanthrene

Concen: 4.63 ng/ul

RT: 17.58 min Scan# 2509

Delta R.T. -0.01 min

Lab File: BG021880.D

Acq: 12 May 2016 22:36

Instrument :

BNA\_G

ClientSampleId :

D9WK7

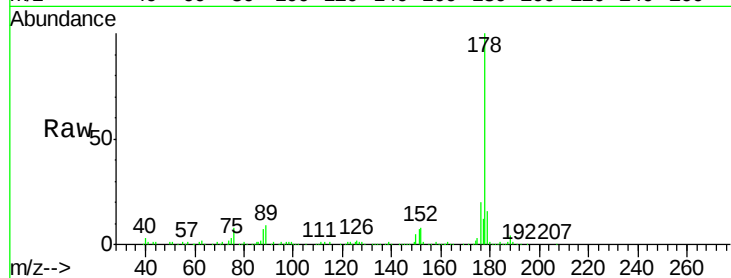
Tgt Ion:178 Resp: 122702

Ion Ratio Lower Upper

178 100

179 15.6 11.8 17.8

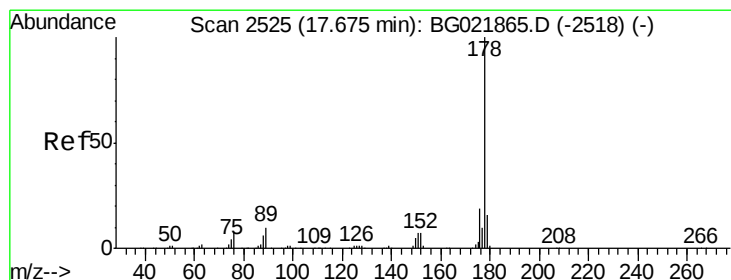
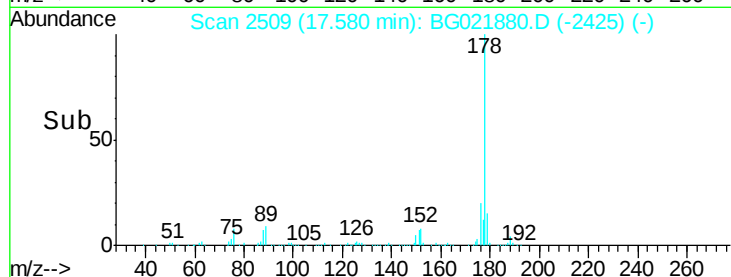
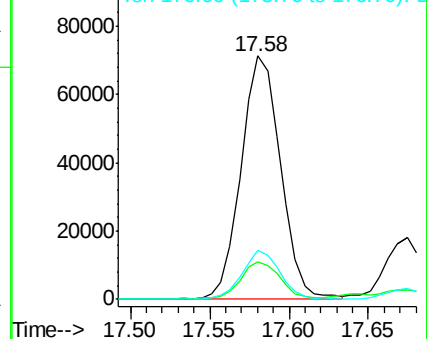
176 20.1 14.8 22.2



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



#72

Anthracene

Concen: 1.14 ng/ul

RT: 17.67 min Scan# 2525

Delta R.T. -0.00 min

Lab File: BG021880.D

Acq: 12 May 2016 22:36

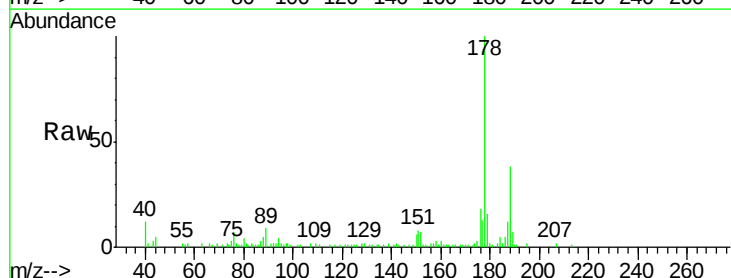
Tgt Ion:178 Resp: 30574

Ion Ratio Lower Upper

178 100

179 16.0 12.9 19.3

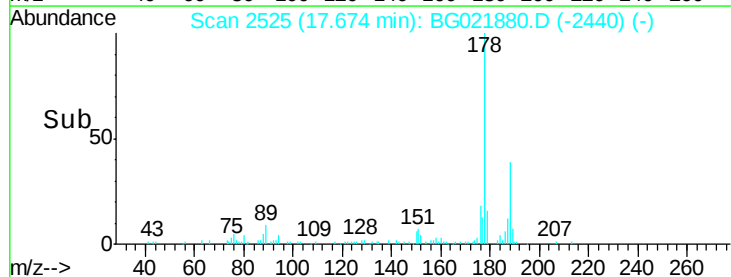
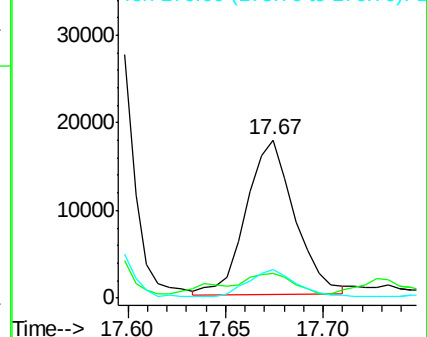
176 17.7 15.6 23.4

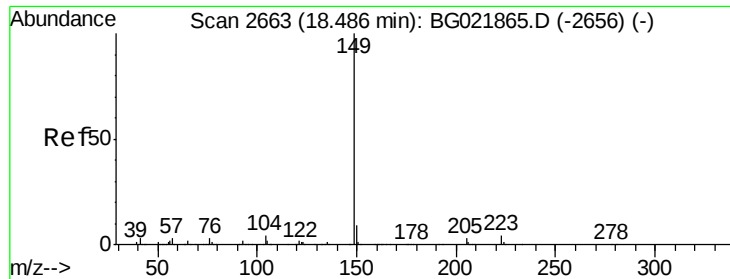


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#74

Di-n-butylphthalate

Concen: 2.40 ng/ul

RT: 18.49 min Scan# 2663

Delta R.T. -0.00 min

Lab File: BG021880.D

Acq: 12 May 2016 22:36

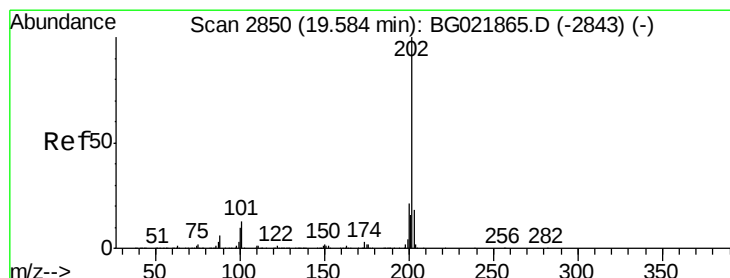
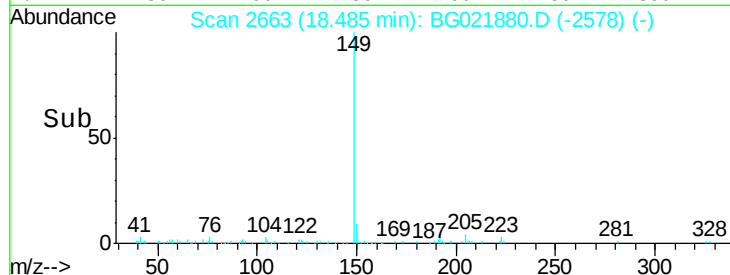
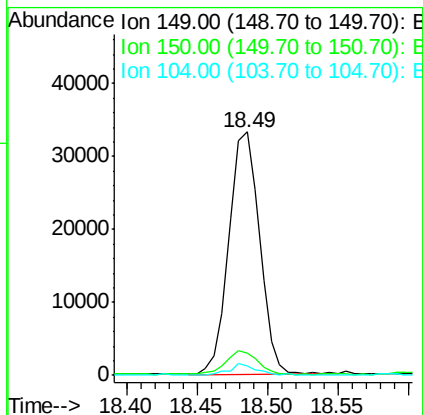
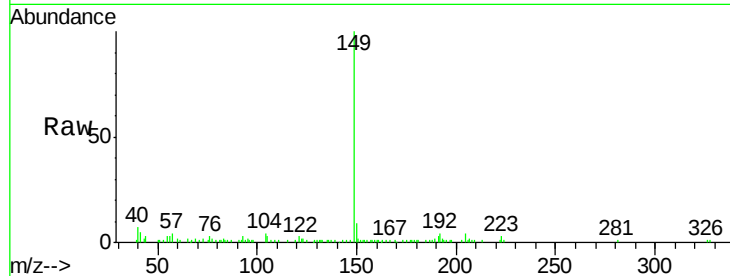
Instrument :

BNA\_G

ClientSampleId :

D9WK7

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 149   | Resp: | 50855 |
| Ion      | Ratio | Lower | Upper |
| 149      | 100   |       |       |
| 150      | 9.1   | 7.5   | 11.3  |
| 104      | 4.0   | 5.4   | 8.2#  |



#75

Fluoranthene

Concen: 8.43 ng/ul

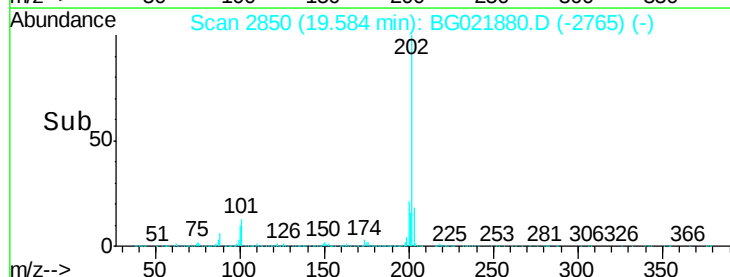
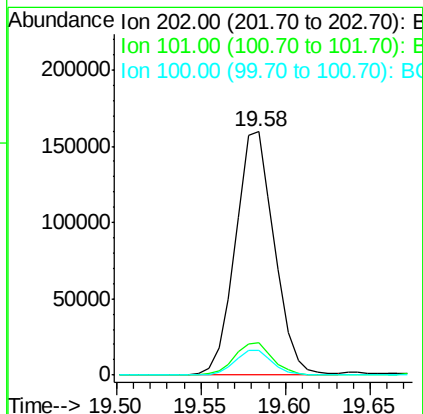
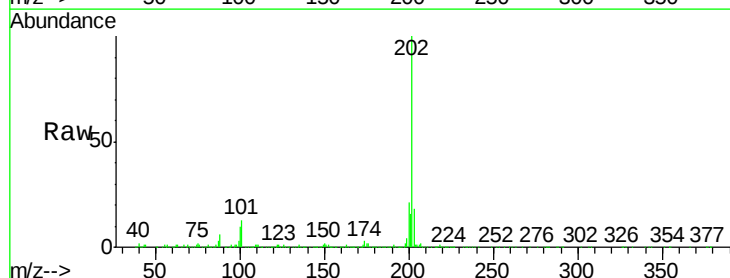
RT: 19.58 min Scan# 2850

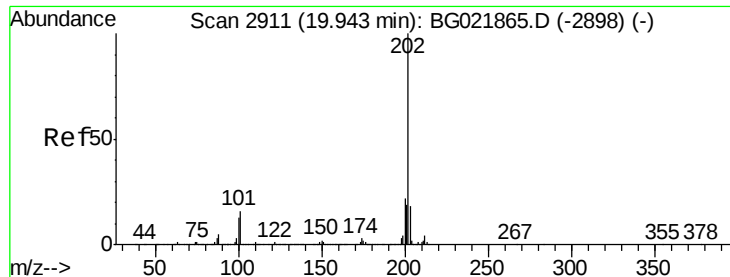
Delta R.T. -0.00 min

Lab File: BG021880.D

Acq: 12 May 2016 22:36

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 202   | Resp: | 254071 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 13.3  | 8.9   | 13.3#  |
| 100      | 10.2  | 7.0   | 10.4   |

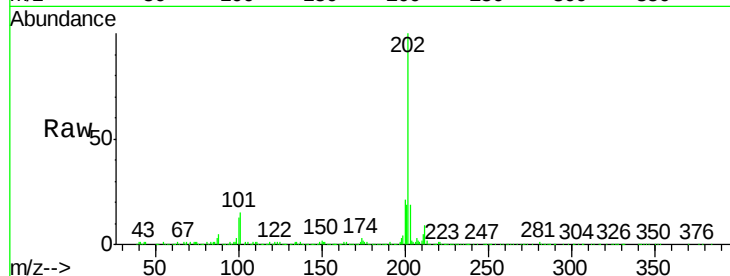




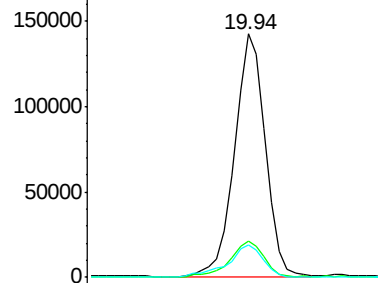
#78  
 Pyrene  
 Concen: 8.34 ng/ul  
 RT: 19.94 min Scan# 2911  
 Delta R.T. -0.00 min  
 Lab File: BG021880.D  
 Acq: 12 May 2016 22:36

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9WK7

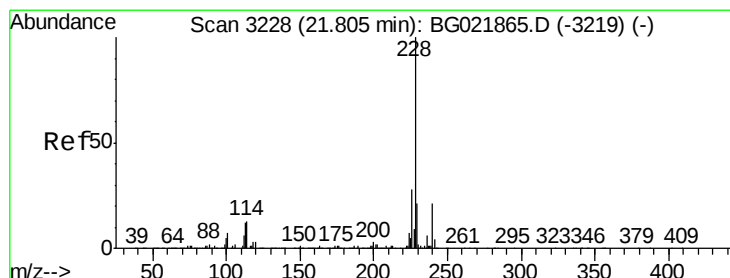
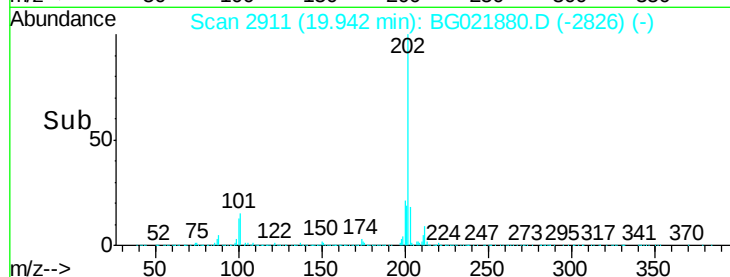
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.7  | 9.8   | 14.8  |
| 100     | 13.5  | 9.3   | 13.9  |



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

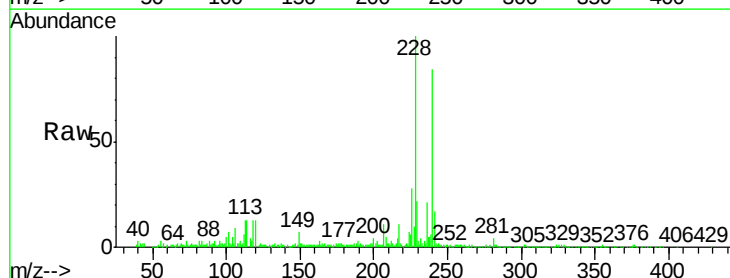


Time-->

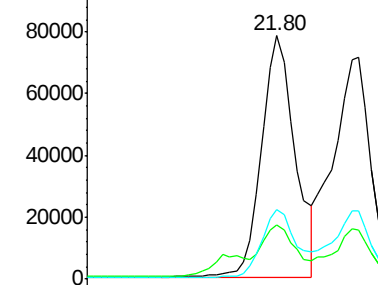


#81  
 Benzo(a)anthracene  
 Concen: 6.09 ng/ul  
 RT: 21.80 min Scan# 3228  
 Delta R.T. -0.00 min  
 Lab File: BG021880.D  
 Acq: 12 May 2016 22:36

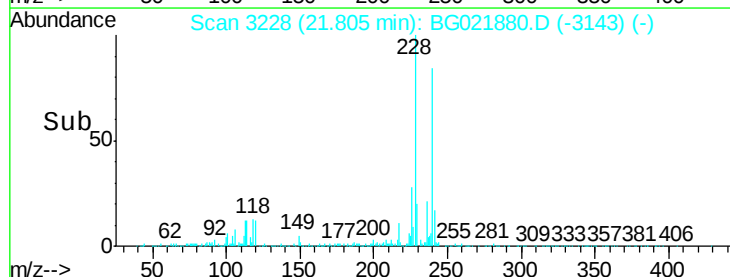
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 22.1  | 16.6  | 25.0  |
| 226     | 28.4  | 21.0  | 31.4  |

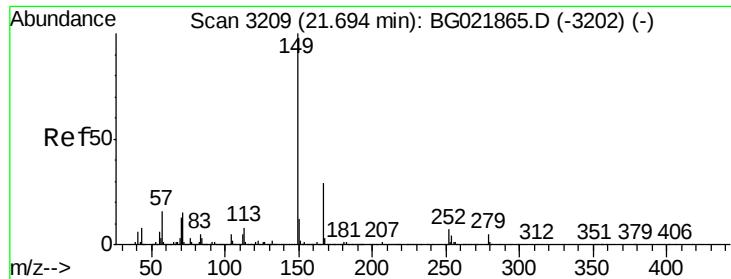


Abundance Ion 228.00 (227.70 to 228.70): E  
 Ion 229.00 (228.70 to 229.70): E  
 Ion 226.00 (225.70 to 226.70): E



Time-->

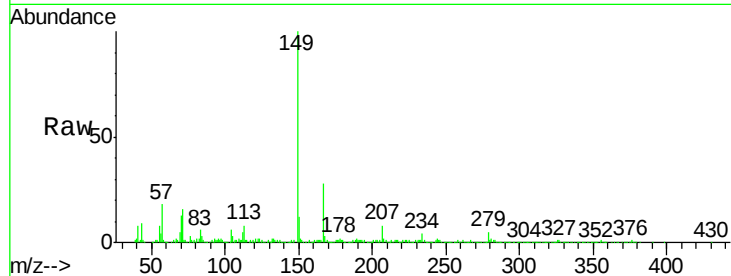




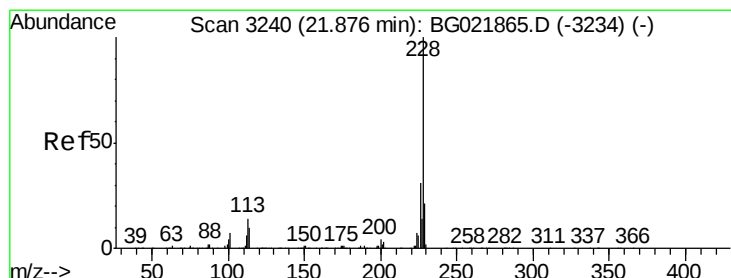
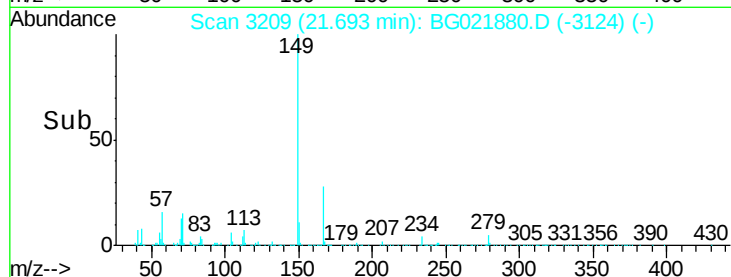
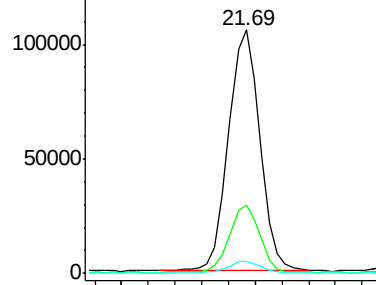
#82  
 Bis(2-ethylhexyl)phthalate  
 Concen: 17.48 ng/ul  
 RT: 21.69 min Scan# 3209  
 Delta R.T. -0.00 min  
 Lab File: BG021880.D  
 Acq: 12 May 2016 22:36

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9WK7

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 28.2  | 20.5  | 30.7  |
| 279     | 4.9   | 3.7   | 5.5   |

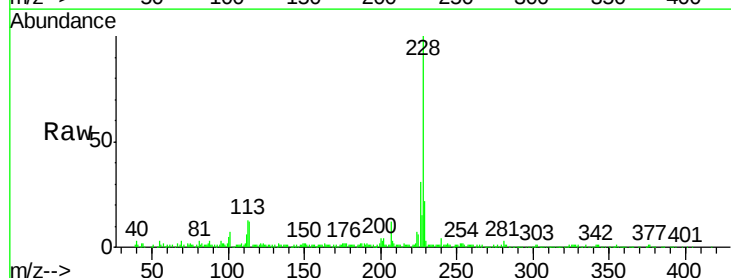


Abundance Ion 149.00 (148.70 to 149.70): E  
 Ion 167.00 (166.70 to 167.70): E  
 Ion 279.00 (278.70 to 279.70): E

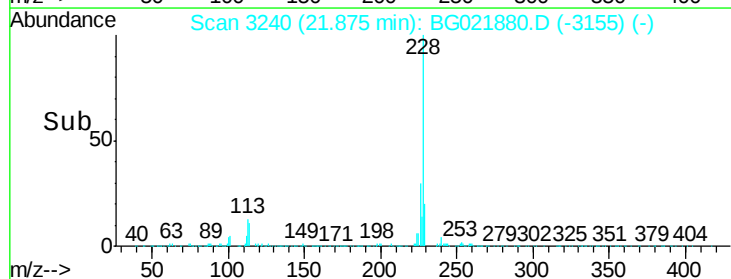
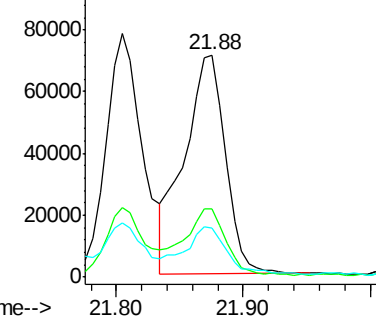


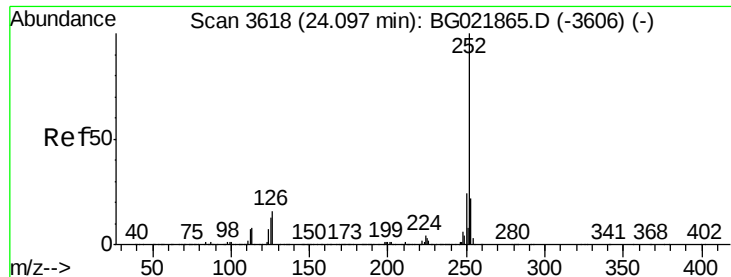
#83  
 Chrysene  
 Concen: 6.16 ng/ul  
 RT: 21.88 min Scan# 3240  
 Delta R.T. -0.00 min  
 Lab File: BG021880.D  
 Acq: 12 May 2016 22:36

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.6  | 23.4  | 35.2  |
| 229     | 22.2  | 16.2  | 24.2  |



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





#86

Benzo(b)fluoranthene

Concen: 10.25 ng/ul

RT: 24.10 min Scan# 3619

Delta R.T. 0.01 min

Lab File: BG021880.D

Acq: 12 May 2016 22:36

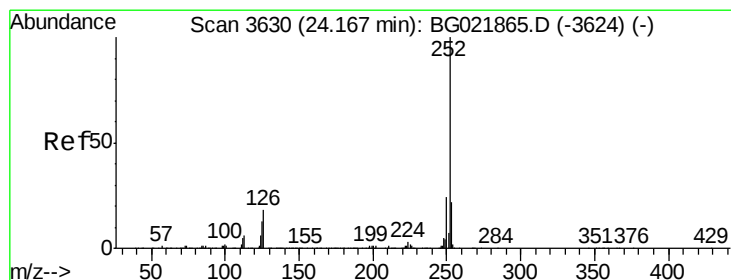
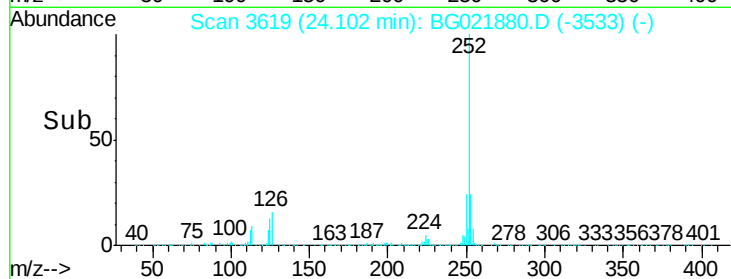
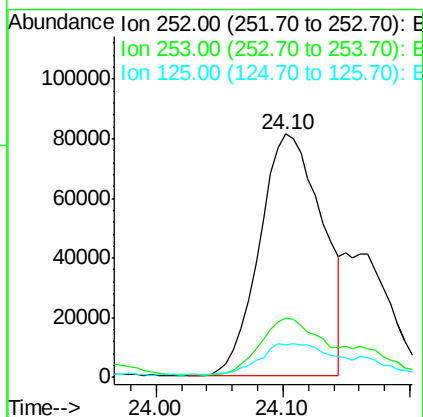
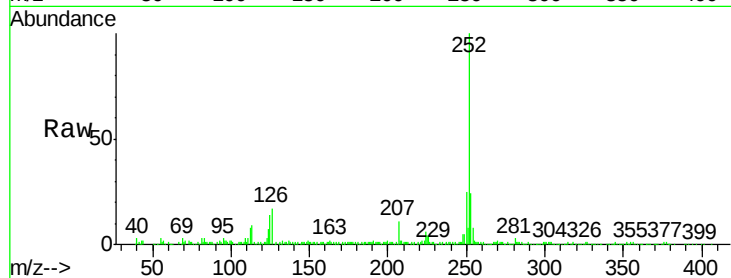
Instrument :

BNA\_G

ClientSampleId :

D9WK7

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 279161 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.3  | 18.1  | 27.1   |
| 125       | 13.6  | 7.6   | 11.4#  |



#87

Benzo(k)fluoranthene

Concen: 9.57 ng/ul

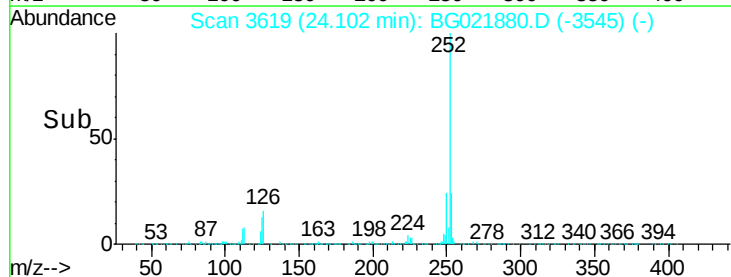
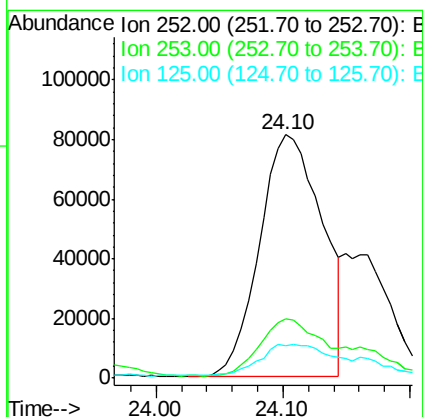
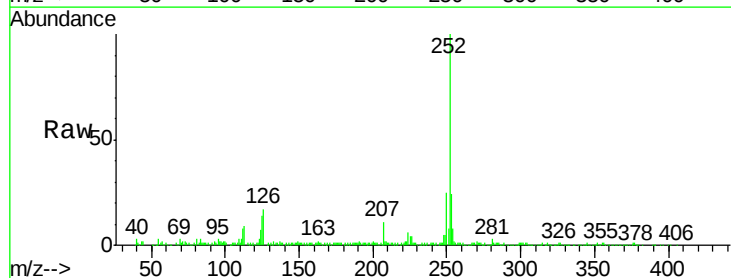
RT: 24.10 min Scan# 3619

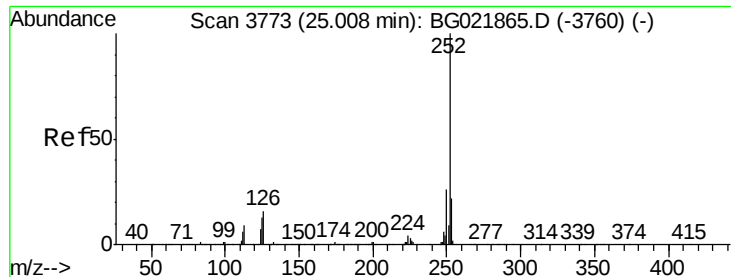
Delta R.T. -0.07 min

Lab File: BG021880.D

Acq: 12 May 2016 22:36

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 279161 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 24.3  | 17.8  | 26.8   |
| 125       | 13.6  | 7.7   | 11.5#  |





#89

Benzo(a)pyrene

Concen: 6.14 ng/ul

RT: 25.01 min Scan# 3773

Delta R.T. -0.00 min

Lab File: BG021880.D

Acq: 12 May 2016 22:36

Instrument :

BNA\_G

ClientSampleId :

D9WK7

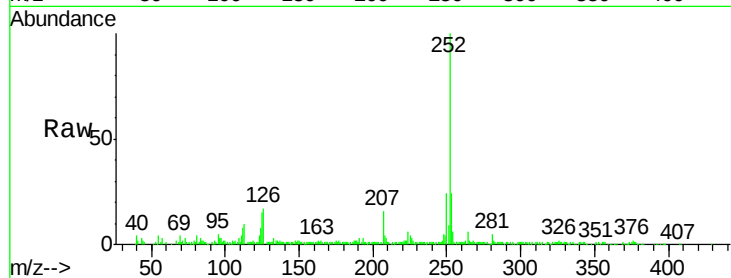
Tgt Ion:252 Resp: 166418

Ion Ratio Lower Upper

252 100

253 23.9 17.4 26.0

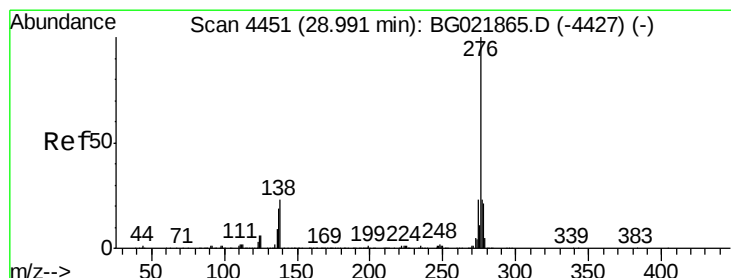
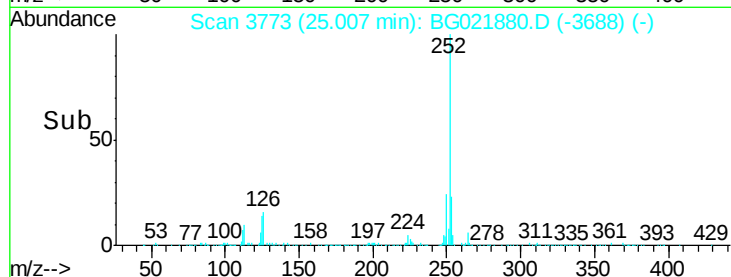
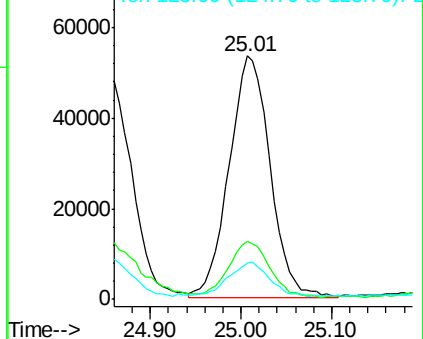
125 14.7 8.2 12.2#



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



#90

Indeno(1,2,3-cd)pyrene

Concen: 3.54 ng/ul

RT: 28.99 min Scan# 4451

Delta R.T. -0.00 min

Lab File: BG021880.D

Acq: 12 May 2016 22:36

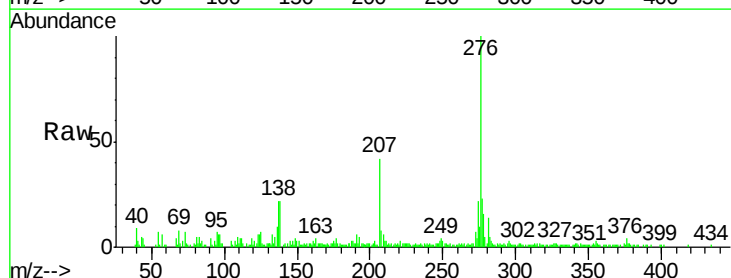
Tgt Ion:276 Resp: 113681

Ion Ratio Lower Upper

276 100

138 22.3 15.8 23.6

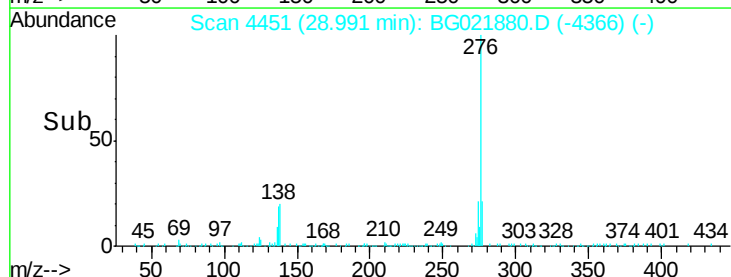
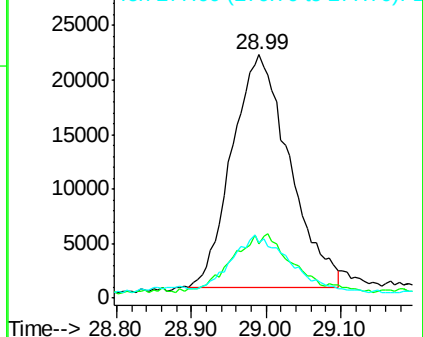
277 22.9 19.0 28.6

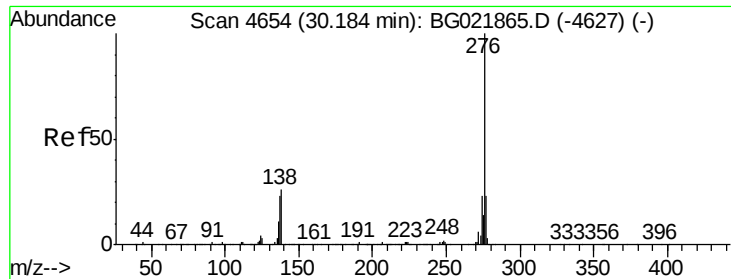


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#92

Benzo(g,h,i)perylene

Concen: 1.54 ng/ul

RT: 30.18 min Scan# 4653

Delta R.T. -0.01 min

Lab File: BG021880.D

Acq: 12 May 2016 22:36

Instrument :

BNA\_G

ClientSampleId :

D9WK7

Tgt Ion: 276 Resp: 40845

Ion Ratio Lower Upper

276 100

138 29.8 13.9 20.9#

277 21.9 19.8 29.6

