

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051116\  
 Data File : BG021856.D  
 Acq On : 11 May 2016 23:01  
 Operator : UM/SJ  
 Sample : H2936-02  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9WF2

Quant Time: May 12 07:33:44 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu May 12 07:33:29 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.19  | 152  | 80199    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.01 | 136  | 390718   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.80 | 164  | 225498   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.55 | 188  | 451402   | 20.00 | ng/ul | 0.00     |
| 76) Chrysene-d12          | 21.84 | 240  | 441988   | 20.00 | ng/ul | 0.01     |
| 84) Perylene-d12          | 25.20 | 264  | 435667   | 20.00 | ng/ul | 0.02     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.57  | 96  | 5806   | 3.49  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.33  | 99  | 120438 | 20.24 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.50  | 67  | 64313  | 21.79 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.71  | 132 | 116553 | 25.23 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.88  | 113 | 66794  | 13.36 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.35  | 128 | 60843  | 23.69 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.08 | 143 | 67622  | 41.68 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.62 | 165 | 114648 | 24.99 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.14 | 131 | 40339  | 8.16  | ng/ul | 0.01 |
| 44) Dimethylphthalate-d6       | 14.20 | 166 | 380498 | 24.02 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.50 | 160 | 522177 | 23.22 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 15.00 | 143 | 47785  | 17.60 | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.80 | 176 | 354467 | 21.26 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.91 | 200 | 44114  | 35.28 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.65 | 188 | 475141 | 21.62 | ng/ul | 0.00 |
| 77) Pyrene-d10                 | 19.93 | 212 | 502970 | 24.31 | ng/ul | 0.00 |
| 88) Benzo(a)pyrene-d12         | 24.97 | 264 | 461888 | 22.31 | ng/ul | 0.03 |

## Target Compounds

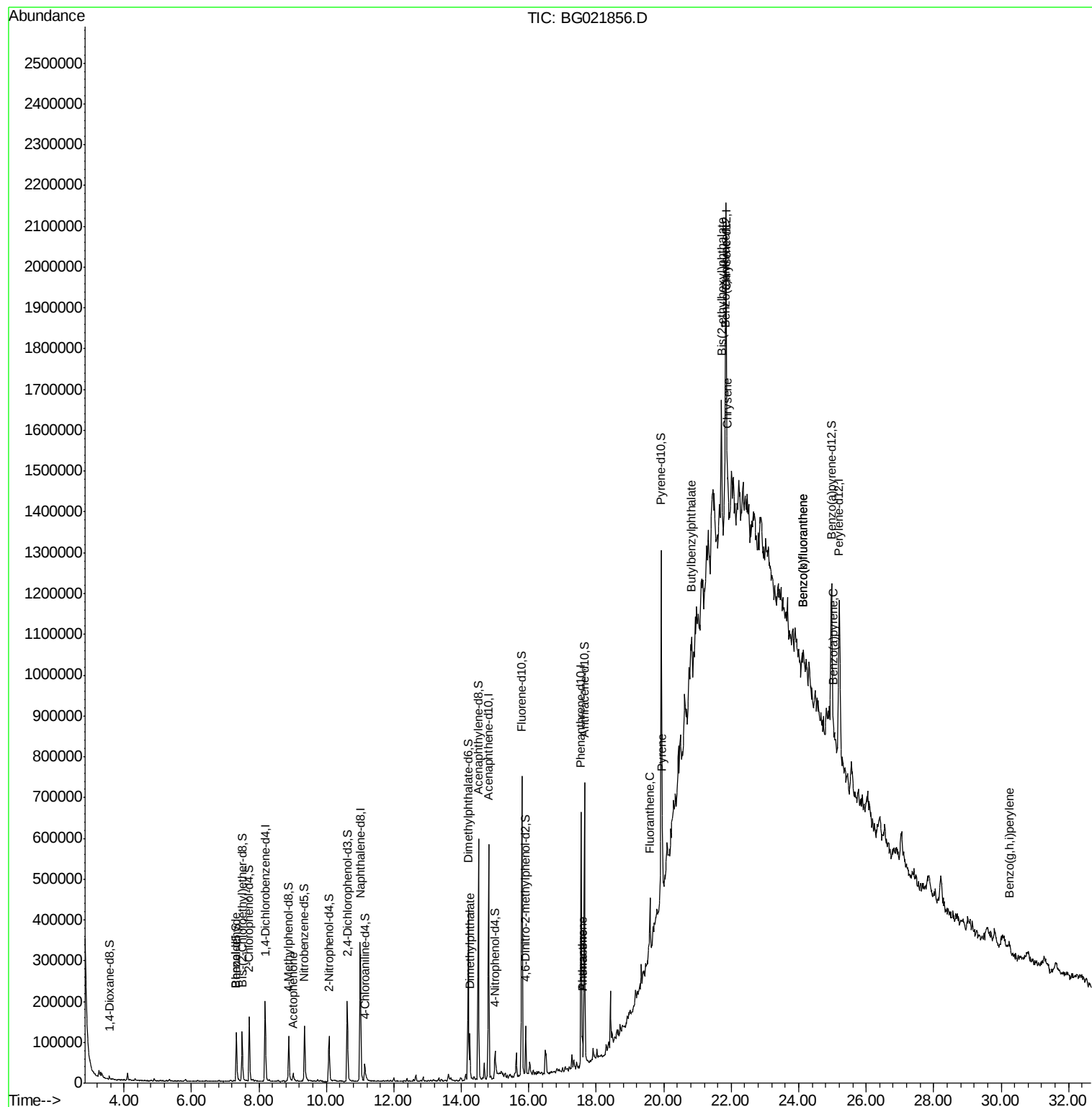
|                                |       |     |        |             | Ovalue |
|--------------------------------|-------|-----|--------|-------------|--------|
| 4) Benzaldehyde                | 7.33  | 77  | 1057   | 1.63 ng/ul# | 20     |
| 14) Acetophenone               | 9.02  | 105 | 16706  | 2.03 ng/ul# | 65     |
| 45) Dimethylphthalate          | 14.25 | 163 | 88456  | 5.48 ng/ul  | 97     |
| 70) Phenanthrene               | 17.59 | 178 | 47335  | 1.92 ng/ul  | 96     |
| 72) Anthracene                 | 17.59 | 178 | 47335  | 1.89 ng/ul  | 97     |
| 75) Fluoranthene               | 19.59 | 202 | 92017  | 3.28 ng/ul  | 95     |
| 78) Pyrene                     | 19.96 | 202 | 80238  | 3.14 ng/ul  | 97     |
| 79) Butylbenzylphthalate       | 20.83 | 149 | 26409  | 4.67 ng/ul  | 90     |
| 81) Benzo(a)anthracene         | 21.82 | 228 | 43876  | 1.78 ng/ul# | 87     |
| 82) Bis(2-ethylhexyl)phthalate | 21.71 | 149 | 147007 | 15.93 ng/ul | 95     |
| 83) Chrysene                   | 21.89 | 228 | 52218  | 2.15 ng/ul# | 92     |
| 86) Benzo(b)fluoranthene       | 24.13 | 252 | 79705  | 3.20 ng/ul# | 31     |
| 87) Benzo(k)fluoranthene       | 24.13 | 252 | 79705  | 2.99 ng/ul# | 30     |
| 89) Benzo(a)pyrene             | 25.04 | 252 | 44518  | 1.79 ng/ul# | 12     |
| 92) Benzo(g,h,i)perylene       | 30.24 | 276 | 24505  | 1.01 ng/ul# | 74     |

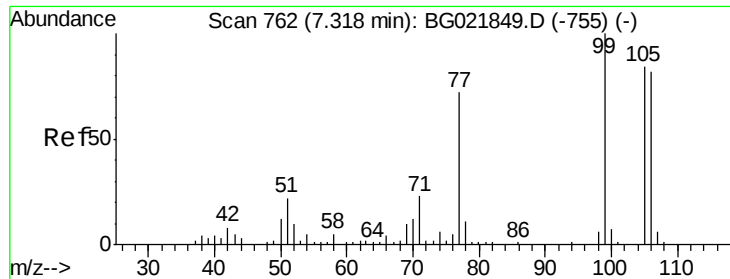
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA G\DATA\BG051116\  
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Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
D9WF2

Quant Time: May 12 07:33:44 2016  
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG050916.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Thu May 12 07:33:29 2016  
Response via : Initial Calibration





#4

Benzaldehyde

Concen: 1.63 ng/ul

RT: 7.33 min Scan# 764

Delta R.T. 0.01 min

Lab File: BG021856.D

Acq: 11 May 2016 23:01

Instrument :

BNA\_G

ClientSampleID :

D9WF2

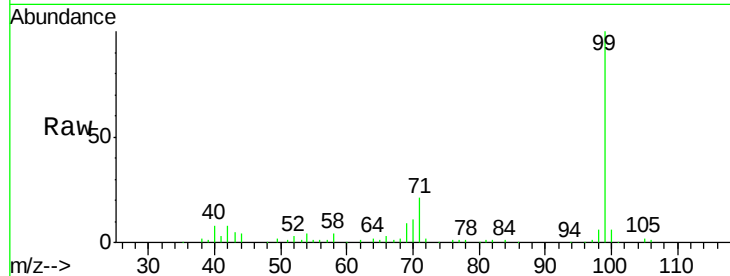
Tot Ion: 77 Resp: 1057

Ion Ratio Lower Upper

77 100

105 215.5 68.5 102.7#

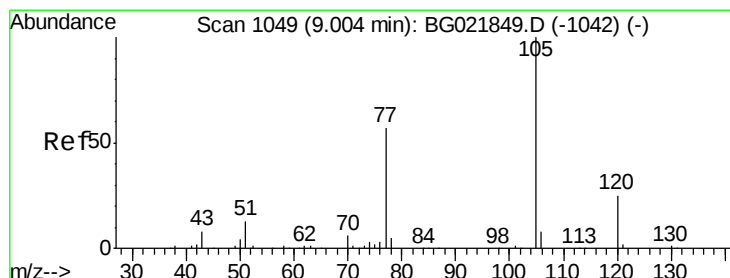
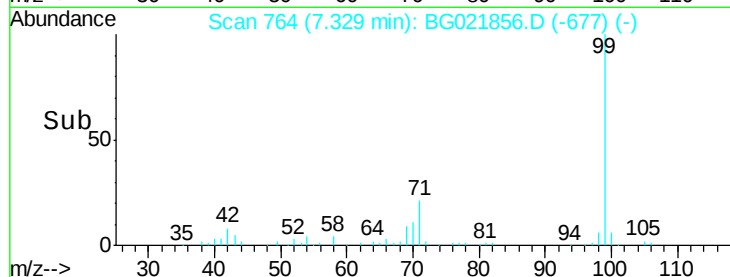
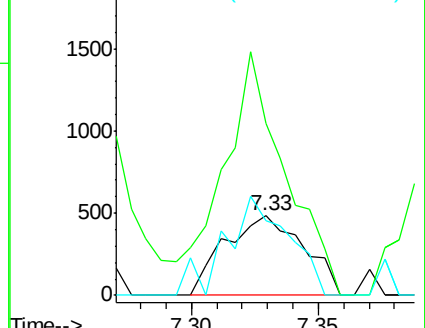
106 93.6 65.0 97.4



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



#14

Acetophenone

Concen: 2.03 ng/ul

RT: 9.02 min Scan# 1051

Delta R.T. 0.01 min

Lab File: BG021856.D

Acq: 11 May 2016 23:01

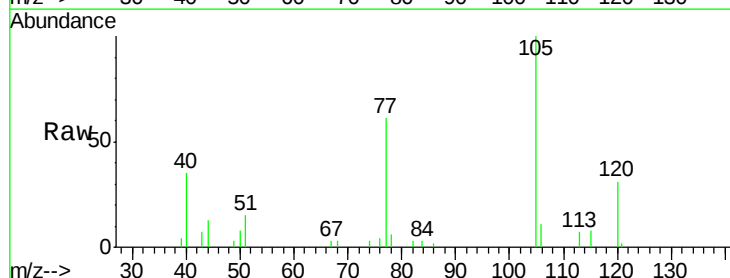
Tgt Ion: 105 Resp: 16706

Ion Ratio Lower Upper

105 100

77 61.0 76.3 114.5#

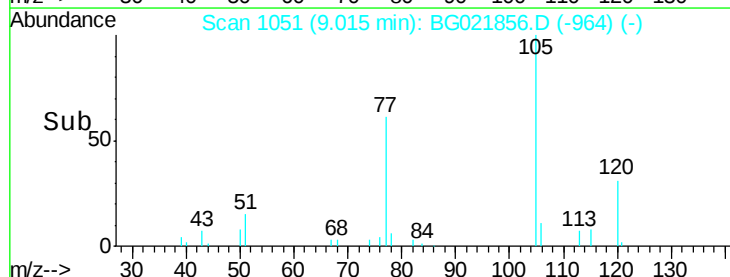
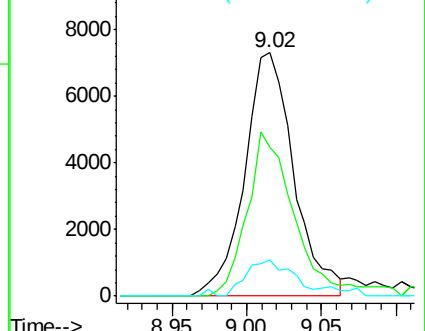
51 14.9 27.6 41.4#

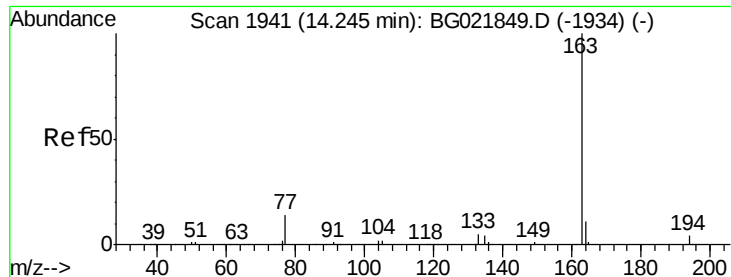


Abundance Ion 105.00 (104.70 to 105.70): BGC

Ion 77.00 (76.70 to 77.70): BGC

Ion 51.00 (50.70 to 51.70): BGC

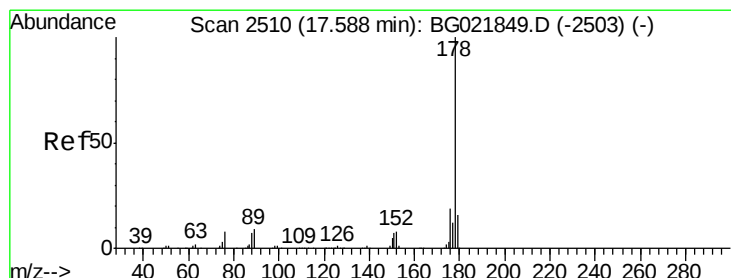
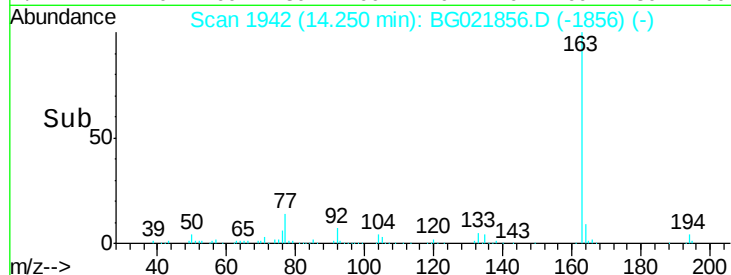
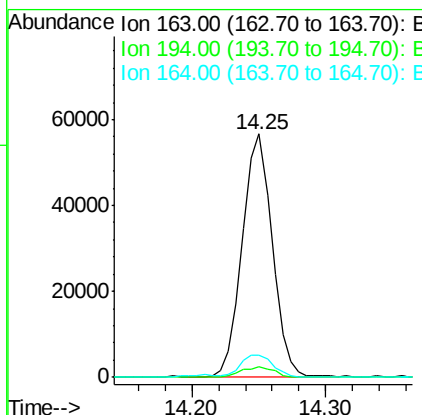
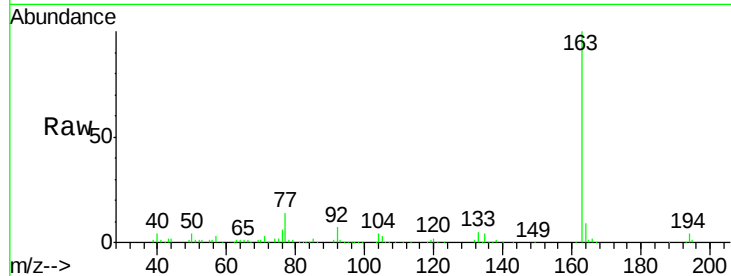




#45  
Dimethylphthalate  
Concen: 5.48 ng/ul  
RT: 14.25 min Scan# 1942  
Delta R.T. 0.01 min  
Lab File: BG021856.D  
Acq: 11 May 2016 23:01

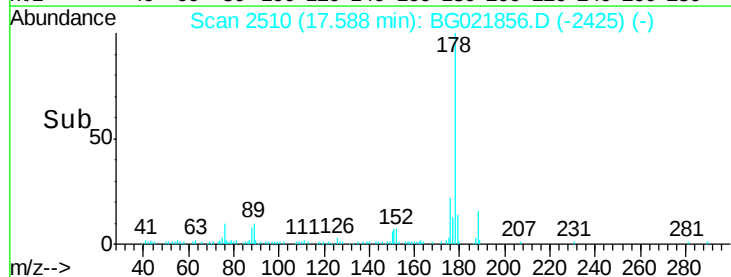
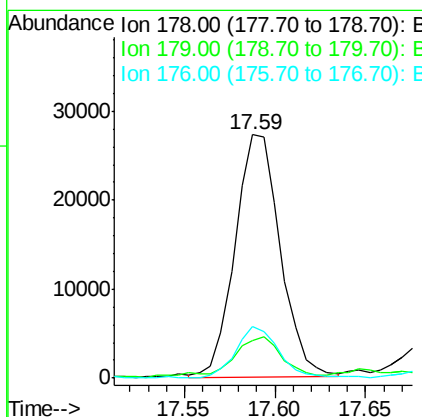
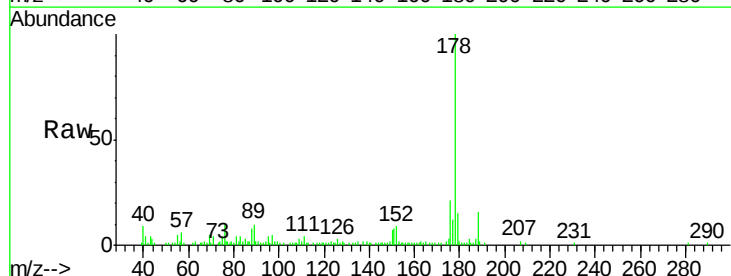
Instrument :  
BNA\_G  
ClientSampleId :  
D9WF2

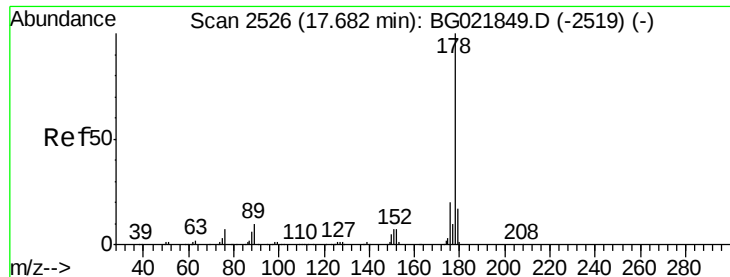
Tot Ion:163 Resp: 88456  
Ion Ratio Lower Upper  
163 100  
194 4.2 3.9 5.9  
164 9.3 8.7 13.1



#70  
Phenanthrene  
Concen: 1.92 ng/ul  
RT: 17.59 min Scan# 2510  
Delta R.T. -0.00 min  
Lab File: BG021856.D  
Acq: 11 May 2016 23:01

Tgt Ion:178 Resp: 47335  
Ion Ratio Lower Upper  
178 100  
179 15.2 11.8 17.8  
176 21.4 14.8 22.2





#72

Anthracene

Concen: 1.89 ng/ul

RT: 17.59 min Scan# 2510

Delta R.T. -0.09 min

Lab File: BG021856.D

Acq: 11 May 2016 23:01

Instrument :

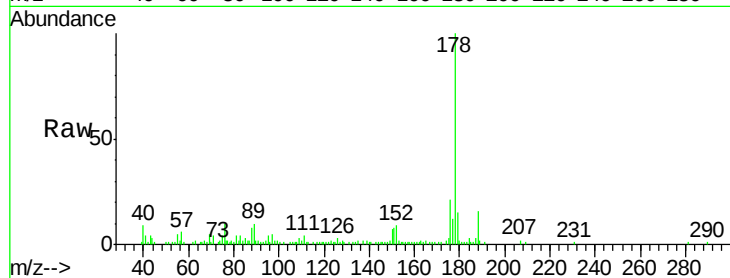
BNA\_G

ClientSampleId :

D9WF2

Tot Ion:178 Resp: 47335

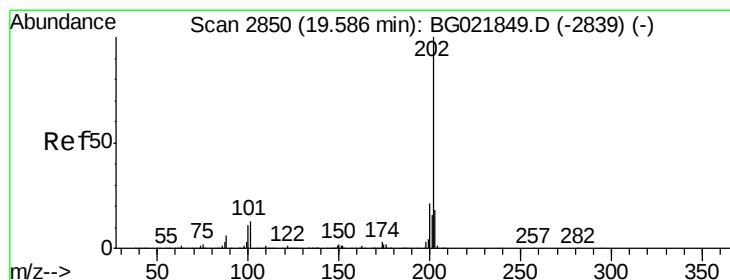
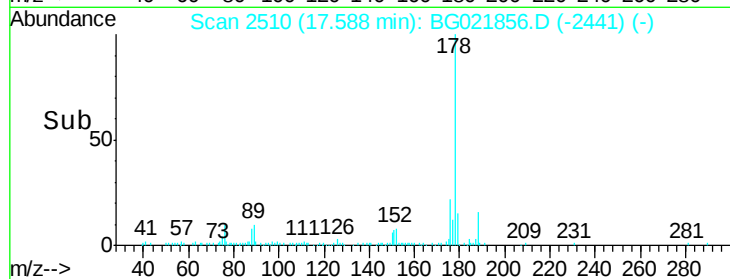
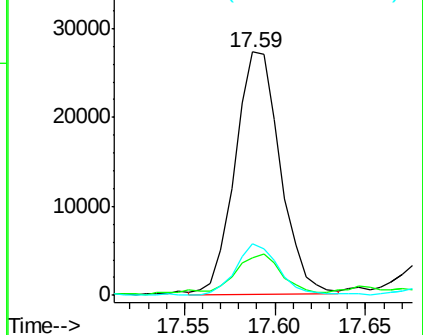
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.2  | 12.9  | 19.3  |
| 176 | 21.4  | 15.6  | 23.4  |



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



#75

Fluoranthene

Concen: 3.28 ng/ul

RT: 19.59 min Scan# 2851

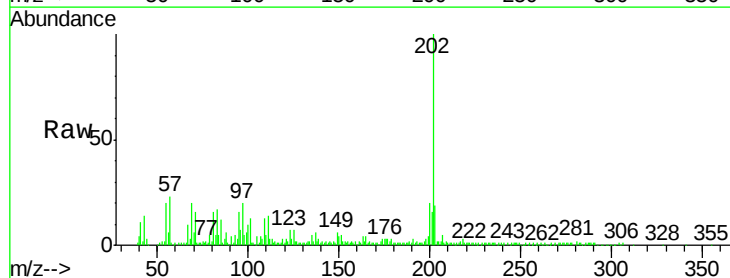
Delta R.T. 0.01 min

Lab File: BG021856.D

Acq: 11 May 2016 23:01

Tgt Ion:202 Resp: 92017

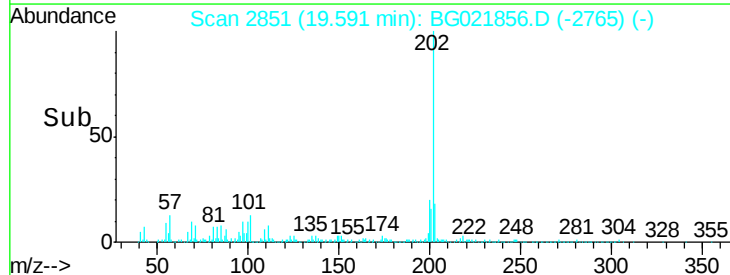
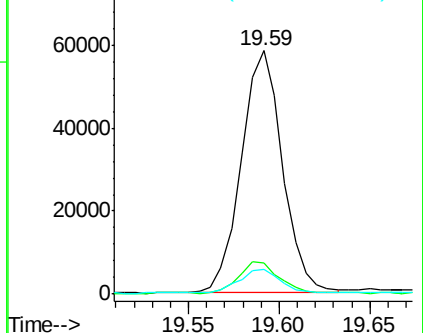
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 12.8  | 8.9   | 13.3  |
| 100 | 10.4  | 7.0   | 10.4  |

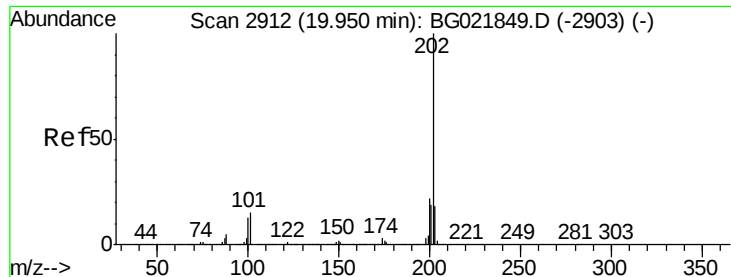


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B





#78

Pvrene

Concen: 3.14 ng/ul

RT: 19.96 min Scan# 2913

Delta R.T. 0.01 min

Lab File: BG021856.D

Acq: 11 May 2016 23:01

Instrument :

BNA\_G

ClientSampleId :

D9WF2

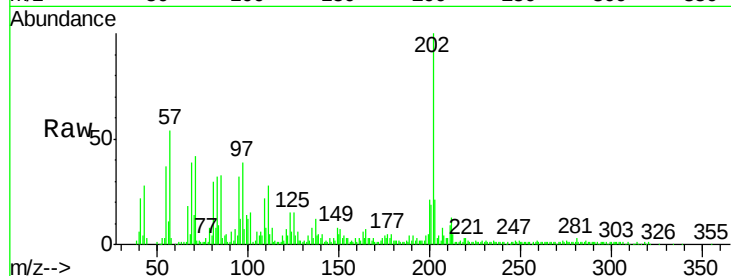
Tot Ion:202 Resp: 80238

Ion Ratio Lower Upper

202 100

101 14.5 9.8 14.8

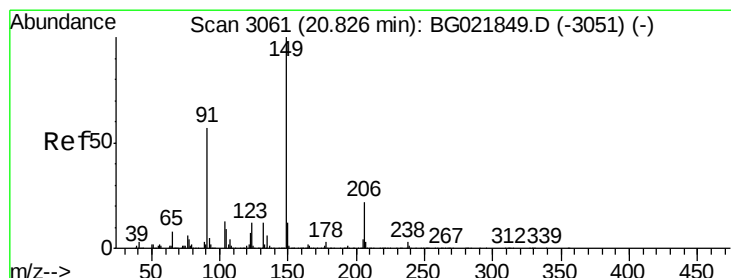
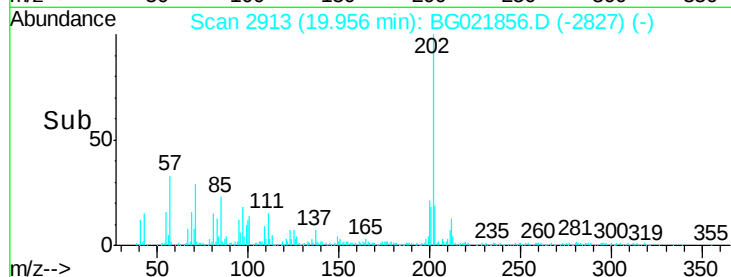
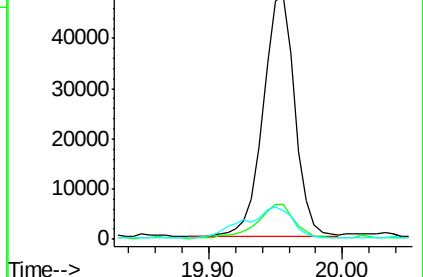
100 11.9 9.3 13.9



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): E



#79

Butylbenzylphthalate

Concen: 4.67 ng/ul

RT: 20.83 min Scan# 3061

Delta R.T. -0.00 min

Lab File: BG021856.D

Acq: 11 May 2016 23:01

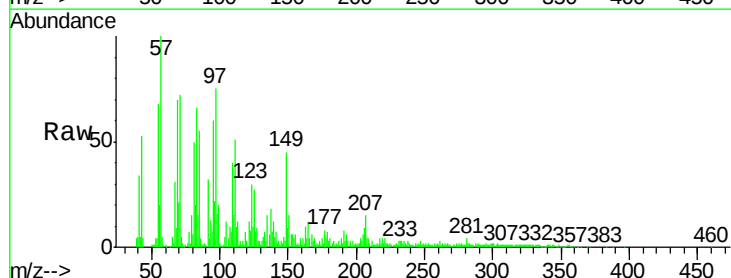
Tgt Ion:149 Resp: 26409

Ion Ratio Lower Upper

149 100

91 70.9 65.8 98.8

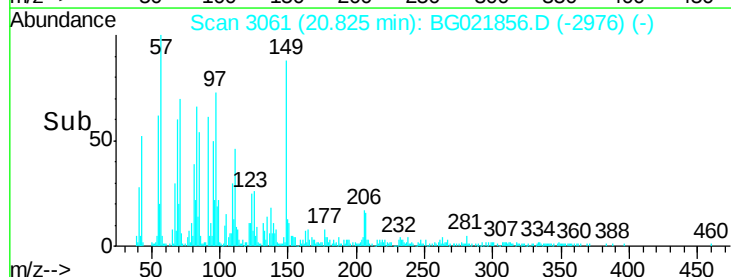
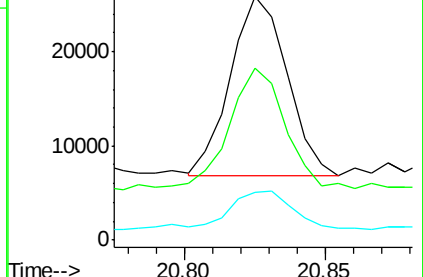
206 19.4 15.5 23.3

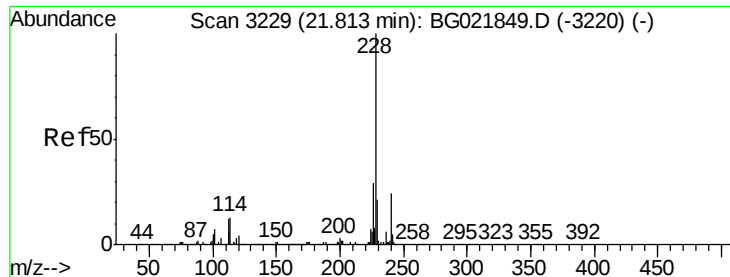


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): E

Ion 206.00 (205.70 to 206.70): E





#81

Benzo(a)anthracene

Concen: 1.78 ng/ul

RT: 21.82 min Scan# 3230

Delta R.T. 0.01 min

Lab File: BG021856.D

Acq: 11 May 2016 23:01

Instrument :

BNA\_G

ClientSampleId :

D9WF2

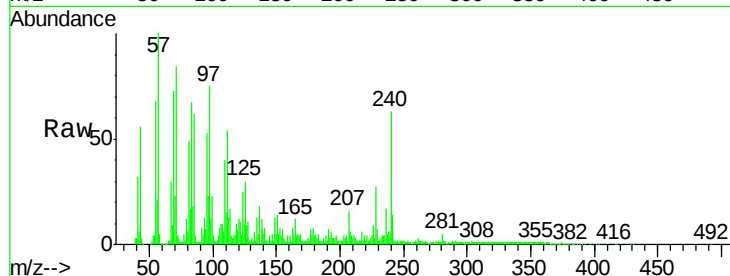
Tot Ion:228 Resp: 43876

Ion Ratio Lower Upper

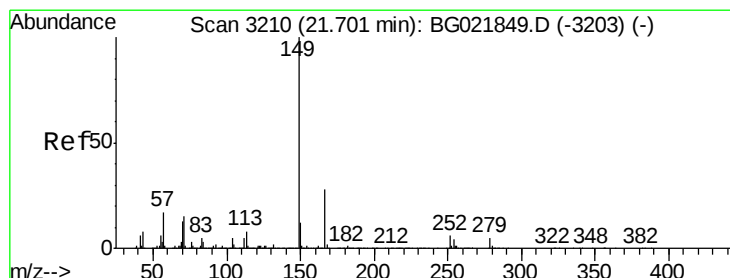
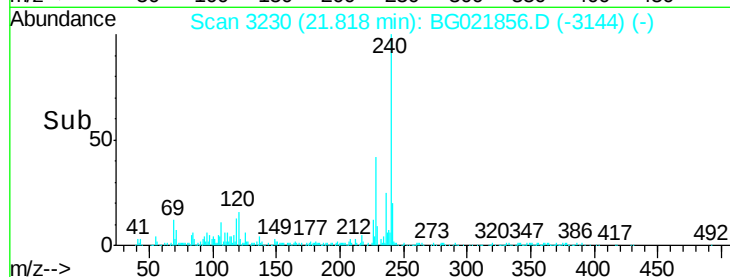
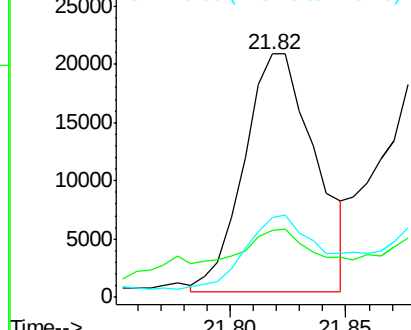
228 100

229 27.4 16.6 25.0#

226 32.6 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



#82

Bis(2-ethylhexyl)phthalate

Concen: 15.93 ng/ul

RT: 21.71 min Scan# 3211

Delta R.T. 0.01 min

Lab File: BG021856.D

Acq: 11 May 2016 23:01

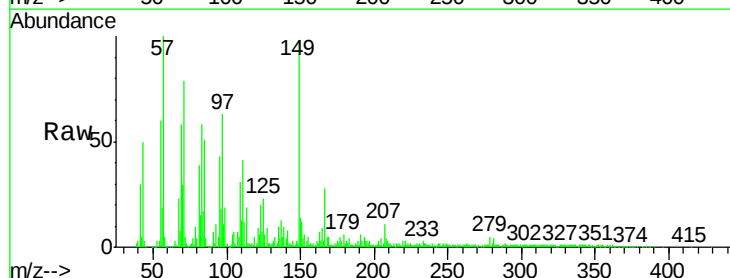
Tgt Ion:149 Resp: 147007

Ion Ratio Lower Upper

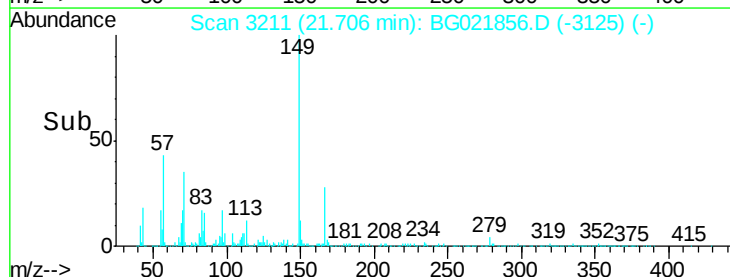
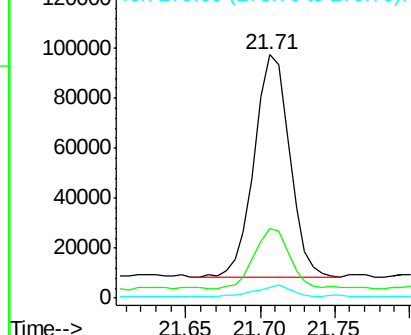
149 100

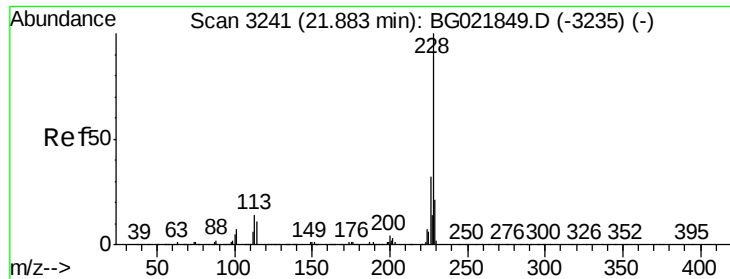
167 28.5 20.5 30.7

279 4.6 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

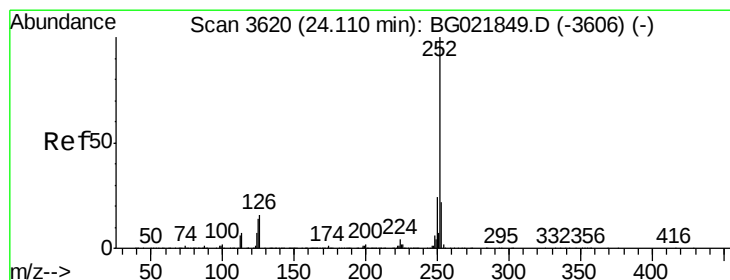
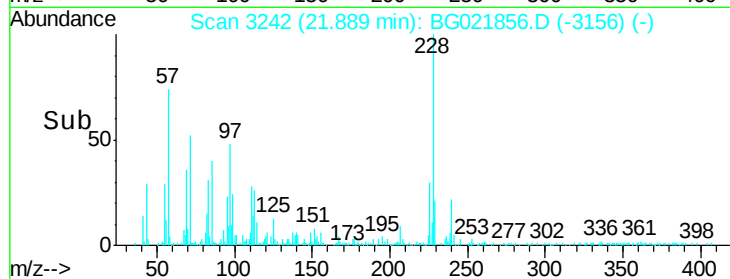
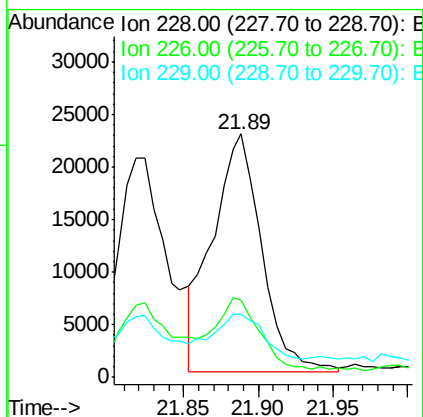
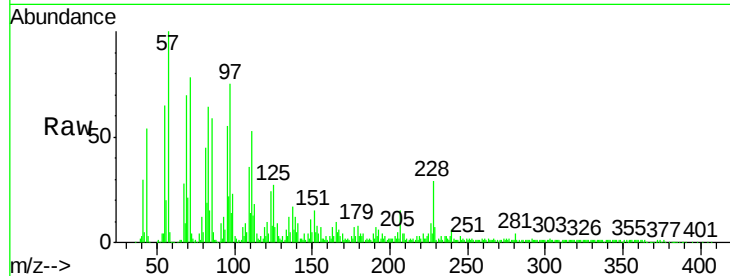




#83  
 Chrysene  
 Concen: 2.15 ng/ul  
 RT: 21.89 min Scan# 3242  
 Delta R.T. 0.01 min  
 Lab File: BG021856.D  
 Acq: 11 May 2016 23:01

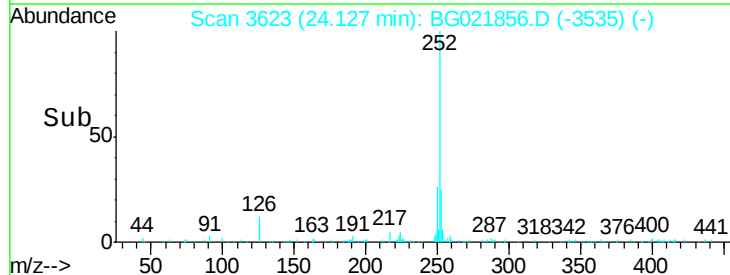
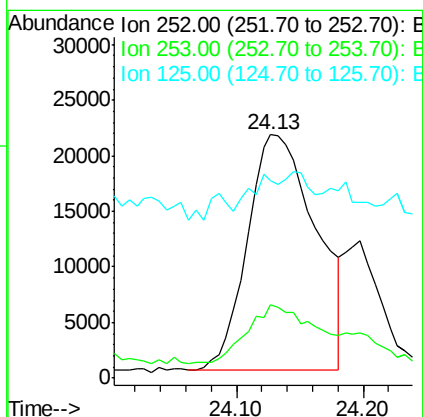
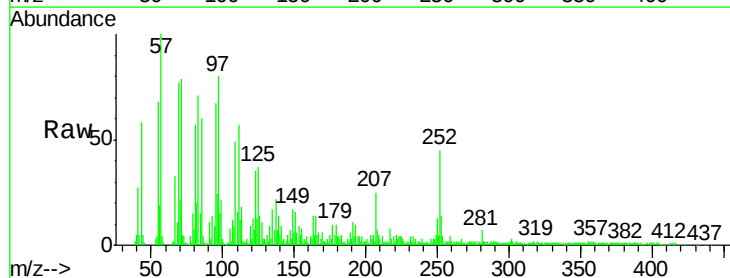
Instrument :  
 BNA\_G  
 ClientSampleId :  
 D9WF2

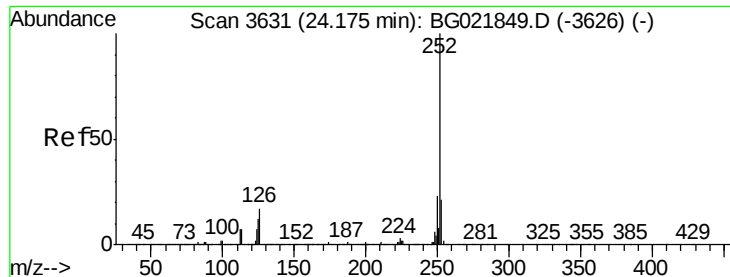
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.0  | 23.4  | 35.2  |
| 229     | 26.2  | 16.2  | 24.2  |



#86  
 Benzo(b)fluoranthene  
 Concen: 3.20 ng/ul  
 RT: 24.13 min Scan# 3623  
 Delta R.T. 0.02 min  
 Lab File: BG021856.D  
 Acq: 11 May 2016 23:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.2  | 18.1  | 27.1  |
| 125     | 81.2  | 7.6   | 11.4  |

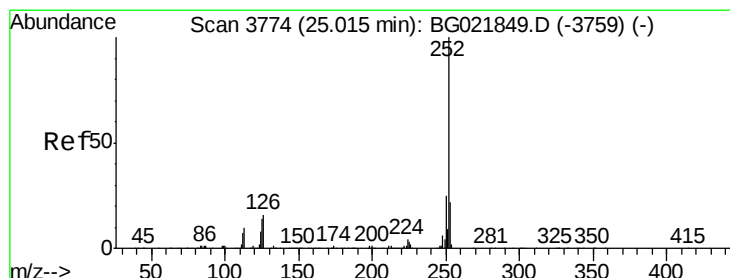
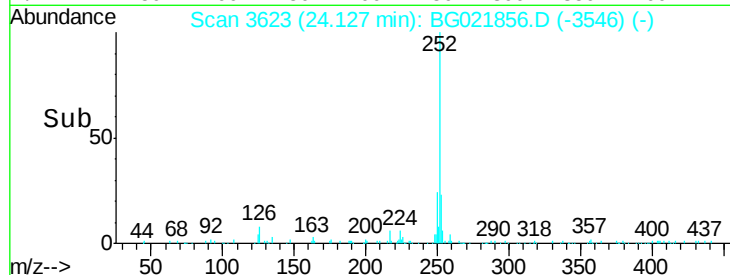
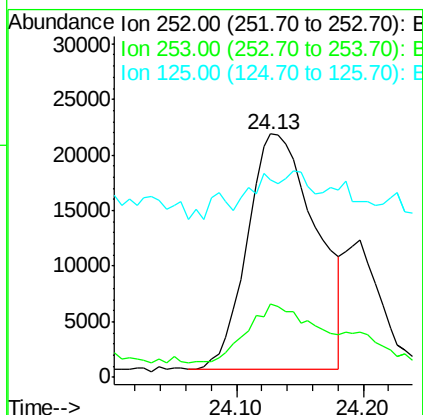
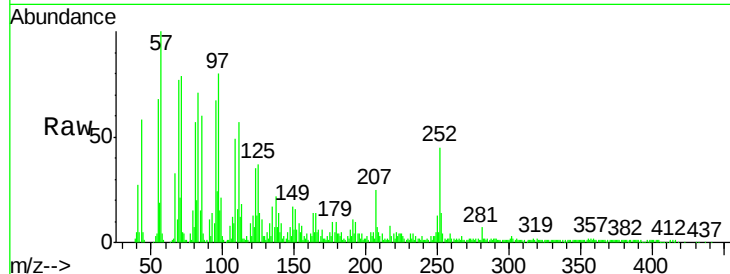




#87  
Benzo(k)fluoranthene  
Concen: 2.99 ng/ul  
RT: 24.13 min Scan# 3623  
Delta R.T. -0.05 min  
Lab File: BG021856.D  
Acq: 11 May 2016 23:01

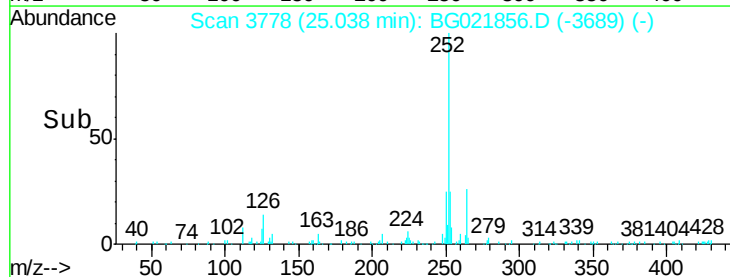
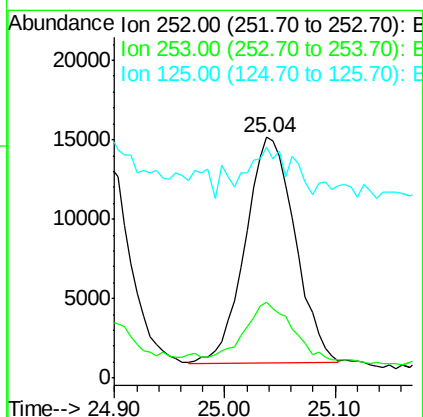
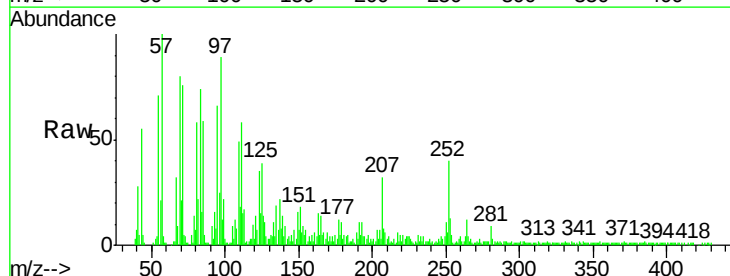
Instrument :  
BNA\_G  
ClientSampled :  
D9WF2

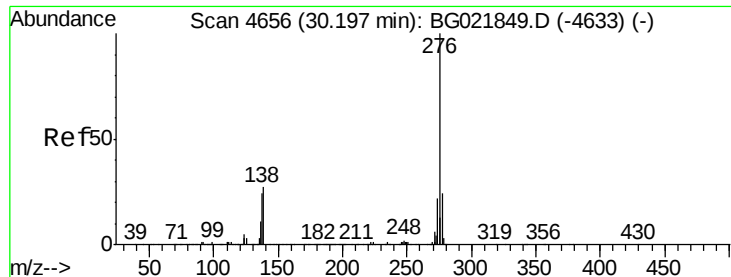
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.2  | 17.8  | 26.8# |
| 125     | 81.2  | 7.7   | 11.5# |



#89  
Benzo(a)pyrene  
Concen: 1.79 ng/ul  
RT: 25.04 min Scan# 3778  
Delta R.T. 0.02 min  
Lab File: BG021856.D  
Acq: 11 May 2016 23:01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 31.8  | 17.4  | 26.0# |
| 125     | 95.8  | 8.2   | 12.2# |





#92

Benzo(a,h,i)perylene

Concen: 1.01 ng/ul

RT: 30.24 min Scan# 4664

Delta R.T. 0.05 min

Lab File: BG021856.D

Acq: 11 May 2016 23:01

Instrument :

BNA\_G

ClientSampleId :

D9WF2

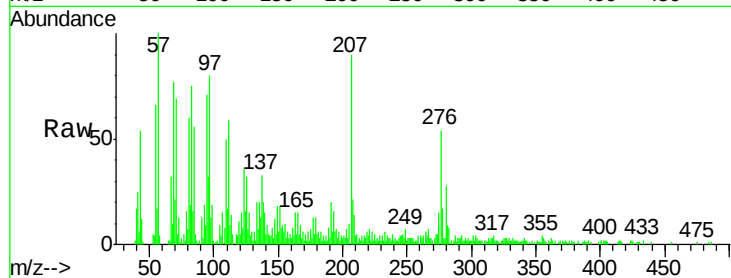
Tot Ion: 276 Resp: 24505

Ion Ratio Lower Upper

276 100

138 37.4 13.9 20.9#

277 31.1 19.8 29.6#



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

