

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG080215\  
 Data File : BG018234.D  
 Acq On : 2 Aug 2015 19:55  
 Operator : TP  
 Sample : G3073-20RE  
 Misc :  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C02L3RE

Quant Time: Aug 03 06:04:18 2015  
 Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG073115.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Aug 03 05:58:42 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.48  | 152  | 87155    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.27 | 136  | 376721   | 20.00 | ng/ul | 0.01     |
| 36) Acenaphthene-d10      | 14.16 | 164  | 227805   | 20.00 | ng/ul | 0.01     |
| 62) Phenanthrene-d10      | 16.92 | 188  | 391841   | 20.00 | ng/ul | 0.01     |
| 78) Chrysene-d12          | 21.13 | 240  | 313475   | 20.00 | ng/ul | 0.01     |
| 86) Perylene-d12          | 23.32 | 264  | 285855   | 20.00 | ng/ul | 0.03     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 2.96  | 96  | 2536   | 2.20  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.69  | 99  | 132048 | 16.85 | ng/ul | 0.02 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.82  | 67  | 64280  | 16.05 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.02  | 132 | 113832 | 19.23 | ng/ul | 0.01 |
| 13) 4-Methylphenol-d8          | 8.22  | 113 | 103011 | 16.14 | ng/ul | 0.01 |
| 19) Nitrobenzene-d5            | 8.64  | 128 | 61285  | 20.65 | ng/ul | 0.01 |
| 22) 2-Nitrophenol-d4           | 9.36  | 143 | 59336  | 17.42 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.91  | 165 | 120784 | 20.07 | ng/ul | 0.02 |
| 29) 4-Chloroaniline-d4         | 10.42 | 131 | 97631  | 13.02 | ng/ul | 0.01 |
| 44) Dimethylphthalate-d6       | 13.57 | 166 | 360382 | 20.47 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.85 | 160 | 369656 | 18.11 | ng/ul | 0.01 |
| 52) 4-Nitrophenol-d4           | 14.41 | 143 | 43363  | 13.31 | ng/ul | 0.02 |
| 58) Fluorene-d10               | 15.17 | 176 | 247673 | 15.55 | ng/ul | 0.01 |
| 63) 4,6-Dinitro-2-methylphenol | 15.31 | 200 | 2342   | 0.86  | ng/ul | 0.02 |
| 71) Anthracene-d10             | 17.02 | 188 | 288066 | 16.91 | ng/ul | 0.01 |
| 79) Pyrene-d10                 | 19.33 | 212 | 193998 | 12.79 | ng/ul | 0.01 |
| 90) Benzo(a)pyrene-d12         | 23.18 | 264 | 201011 | 13.91 | ng/ul | 0.03 |

## Target Compounds

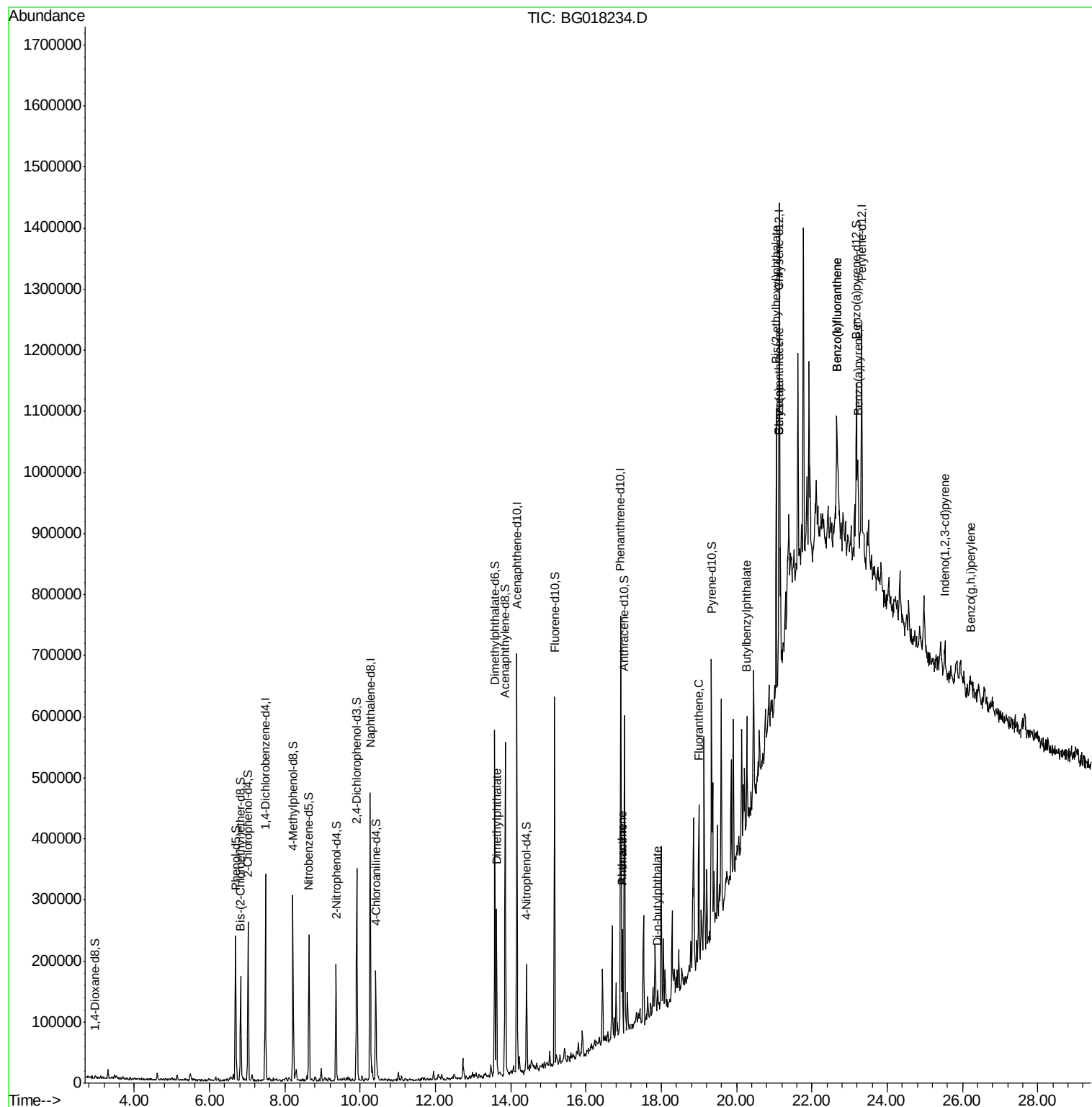
|                                |       |     |        |       |        | Qvalue |
|--------------------------------|-------|-----|--------|-------|--------|--------|
| 45) Dimethylphthalate          | 13.63 | 163 | 161449 | 9.22  | ng/ul  | 99     |
| 70) Phenanthrene               | 16.96 | 178 | 98512  | 4.95  | ng/ul  | 99     |
| 72) Anthracene                 | 16.96 | 178 | 98344  | 4.97  | ng/ul  | 97     |
| 76) Di-n-butylphthalate        | 17.90 | 149 | 25734  | 1.18  | ng/ul# | 94     |
| 77) Fluoranthene               | 19.00 | 202 | 150308 | 6.88  | ng/ul# | 89     |
| 81) Butylbenzylphthalate       | 20.27 | 149 | 47989  | 6.21  | ng/ul# | 81     |
| 83) Benzo(a)anthracene         | 21.11 | 228 | 71949  | 4.26  | ng/ul  | 96     |
| 84) Bis(2-ethylhexyl)phthalate | 21.05 | 149 | 160620 | 15.41 | ng/ul# | 96     |
| 85) Chrysene                   | 21.11 | 228 | 74831  | 4.84  | ng/ul  | 97     |
| 88) Benzo(b)fluoranthene       | 22.66 | 252 | 137154 | 7.99  | ng/ul# | 88     |
| 89) Benzo(k)fluoranthene       | 22.66 | 252 | 137154 | 8.69  | ng/ul# | 88     |
| 91) Benzo(a)pyrene             | 23.22 | 252 | 71110  | 4.63  | ng/ul# | 85     |
| 92) Indeno(1,2,3-cd)pyrene     | 25.54 | 276 | 44688  | 2.51  | ng/ul# | 84     |
| 94) Benzo(g,h,i)perylene       | 26.21 | 276 | 37925  | 2.61  | ng/ul# | 92     |

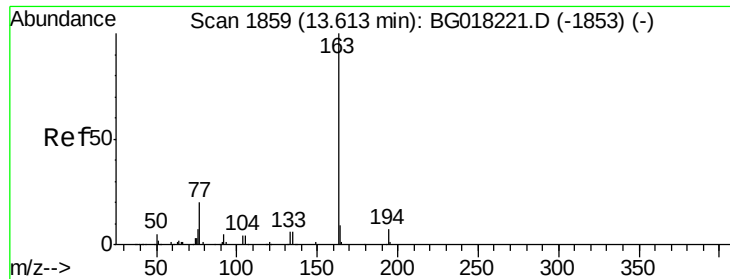
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG080215\  
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Misc :  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
C02L3RE

Quant Time: Aug 03 06:04:18 2015  
Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG073115.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Mon Aug 03 05:58:42 2015  
Response via : Initial Calibration

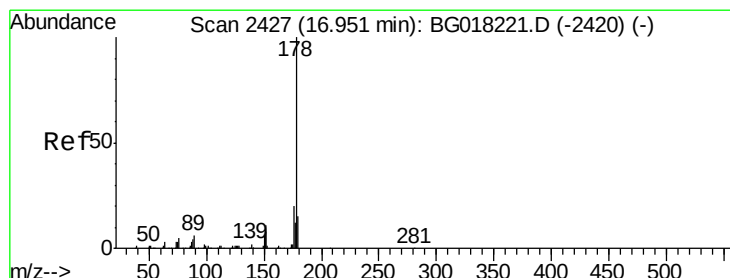
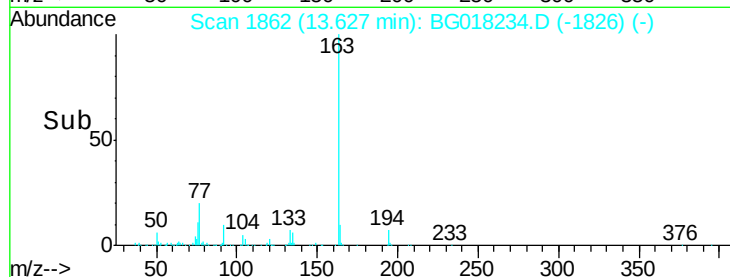
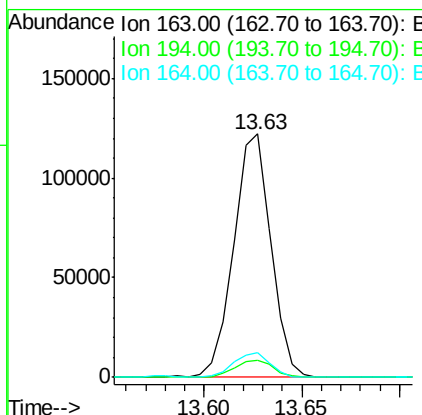
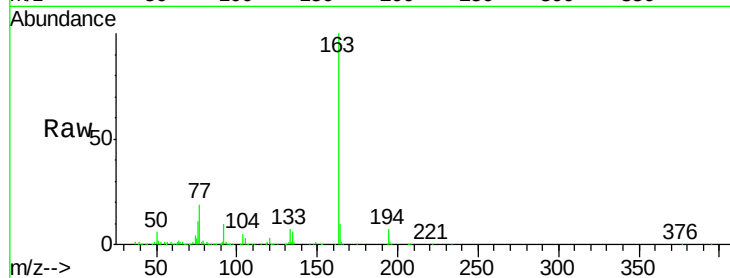




#45  
Dimethylphthalate  
Concen: 9.22 ng/ul  
RT: 13.63 min Scan# 1862  
Delta R.T. 0.01 min  
Lab File: BG018234.D  
Acq: 2 Aug 2015 19:55

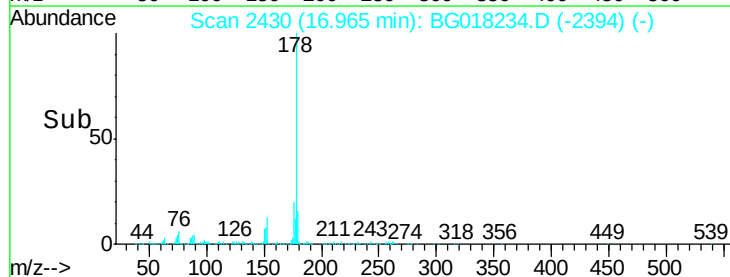
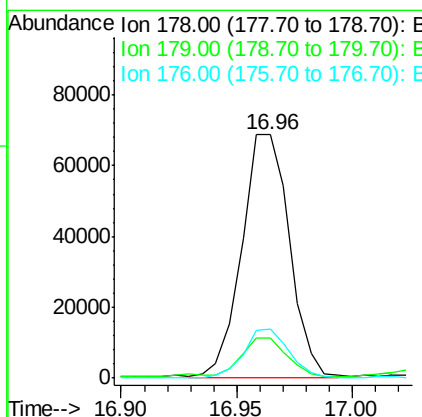
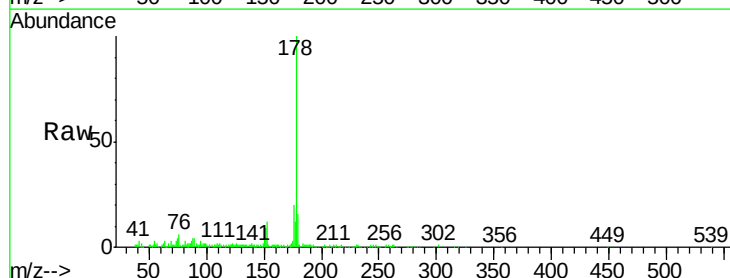
Instrument :  
BNA\_G  
ClientSampleId :  
C02L3RE

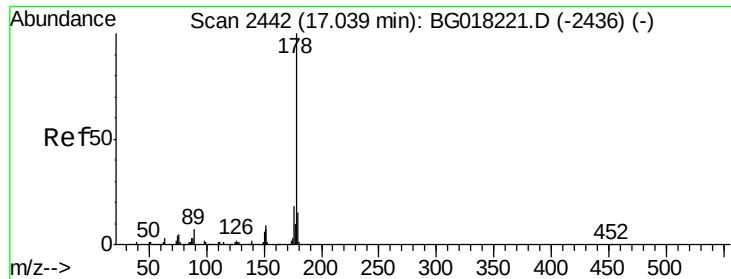
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 7.1   | 5.2   | 7.8   |
| 164     | 10.4  | 8.4   | 12.6  |



#70  
Phenanthrene  
Concen: 4.95 ng/ul  
RT: 16.96 min Scan# 2430  
Delta R.T. 0.01 min  
Lab File: BG018234.D  
Acq: 2 Aug 2015 19:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.3  | 12.8  | 19.2  |
| 176     | 20.2  | 16.0  | 24.0  |





#72

Anthracene

Concen: 4.97 ng/ul

RT: 16.96 min Scan# 2430

Delta R.T. -0.07 min

Lab File: BG018234.D

Acq: 2 Aug 2015 19:55

Instrument :

BNA\_G

ClientSampleId :

C02L3RE

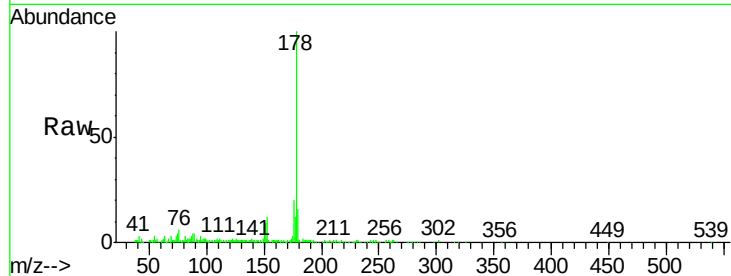
Tgt Ion:178 Resp: 98344

Ion Ratio Lower Upper

178 100

179 16.3 12.2 18.2

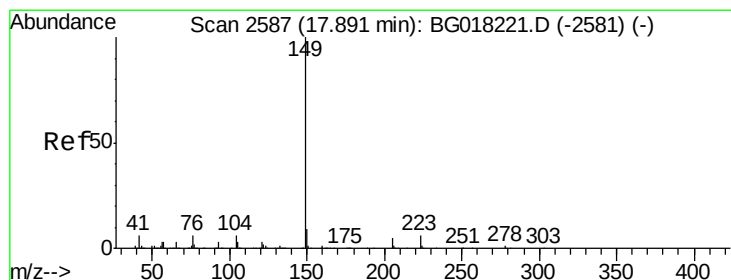
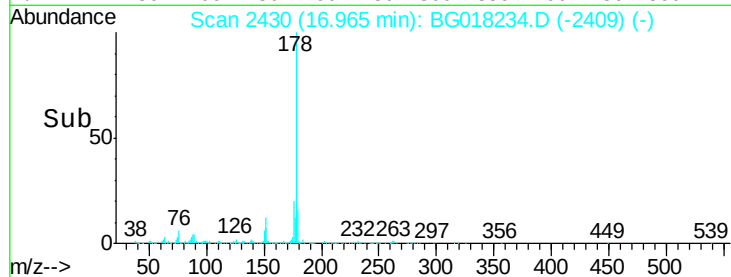
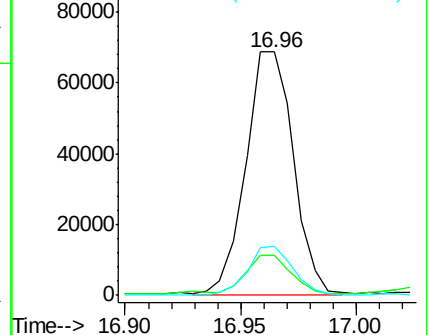
176 20.2 14.8 22.2



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



#76

Di-n-butylphthalate

Concen: 1.18 ng/ul

RT: 17.90 min Scan# 2589

Delta R.T. 0.01 min

Lab File: BG018234.D

Acq: 2 Aug 2015 19:55

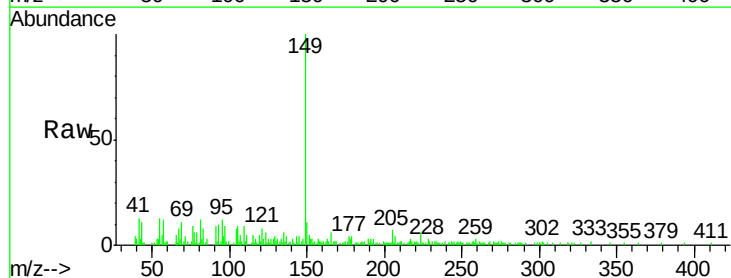
Tgt Ion:149 Resp: 25734

Ion Ratio Lower Upper

149 100

150 11.0 7.7 11.5

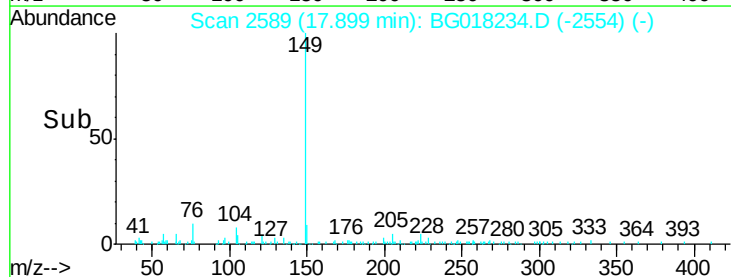
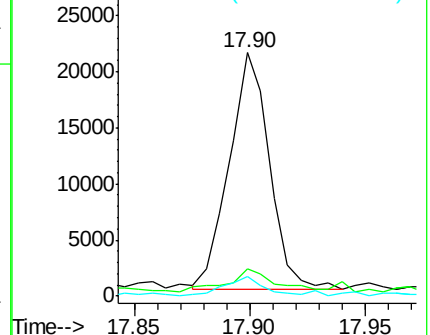
104 7.9 3.6 5.4#

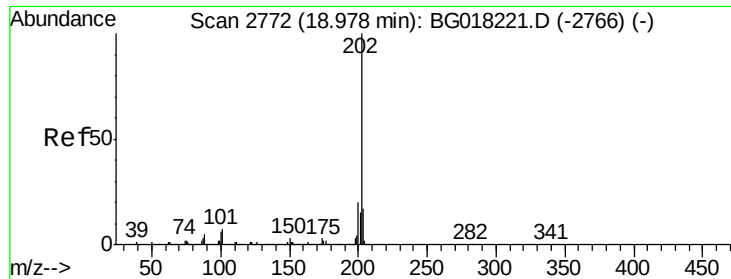


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 104.00 (103.70 to 104.70): E

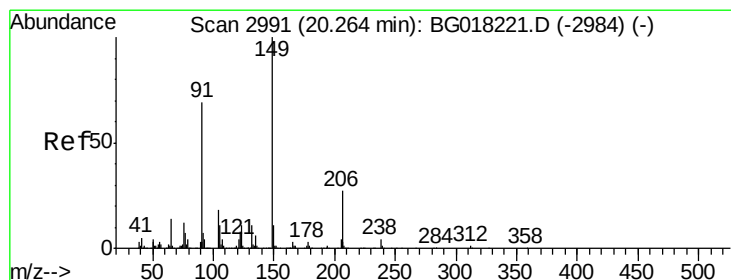
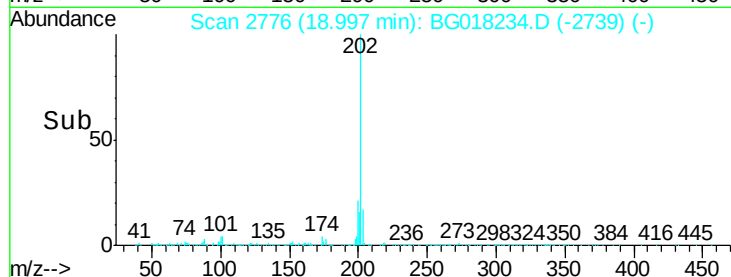
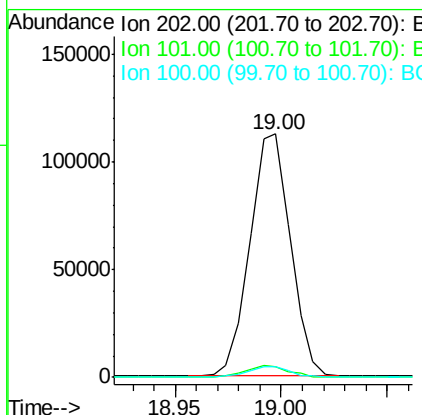
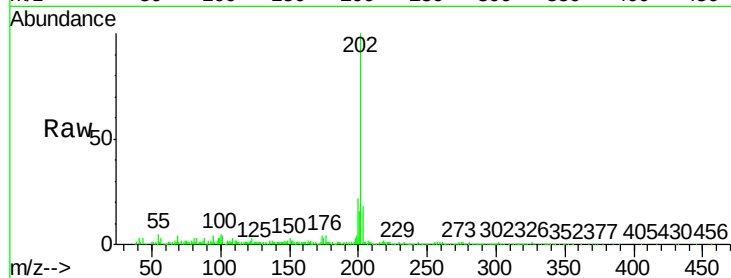




#77  
 Fluoranthene  
 Concen: 6.88 ng/ul  
 RT: 19.00 min Scan# 2776  
 Delta R.T. 0.02 min  
 Lab File: BG018234.D  
 Acq: 2 Aug 2015 19:55

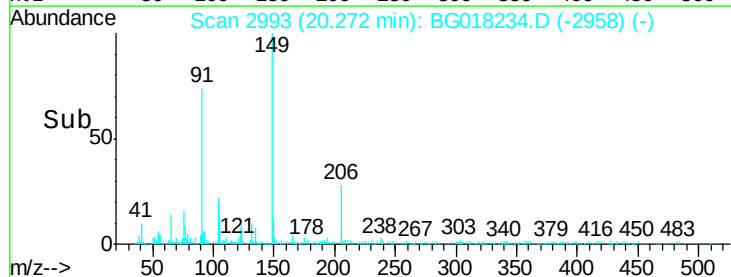
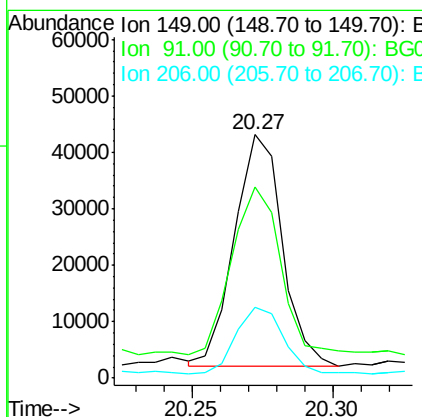
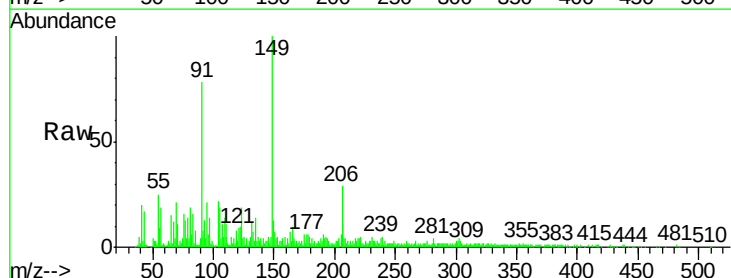
Instrument :  
 BNA\_G  
 ClientSampled :  
 C02L3RE

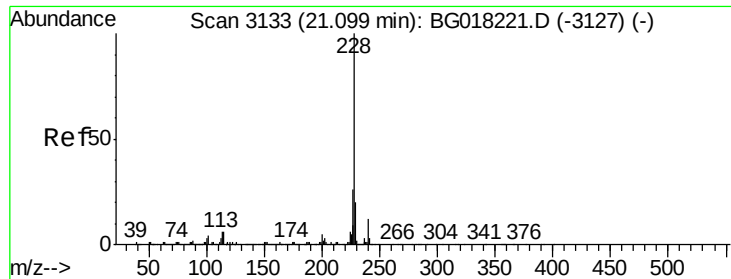
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 4.4   | 7.5   | 11.3# |
| 100     | 4.6   | 5.5   | 8.3#  |



#81  
 Butylbenzylphthalate  
 Concen: 6.21 ng/ul  
 RT: 20.27 min Scan# 2993  
 Delta R.T. 0.01 min  
 Lab File: BG018234.D  
 Acq: 2 Aug 2015 19:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 91      | 78.5  | 46.6  | 69.8# |
| 206     | 28.9  | 21.8  | 32.8  |





#83

Benzo(a)anthracene

Concen: 4.26 ng/ul

RT: 21.11 min Scan# 3136

Delta R.T. 0.01 min

Lab File: BG018234.D

Acq: 2 Aug 2015 19:55

Instrument :

BNA\_G

ClientSampleId :

C02L3RE

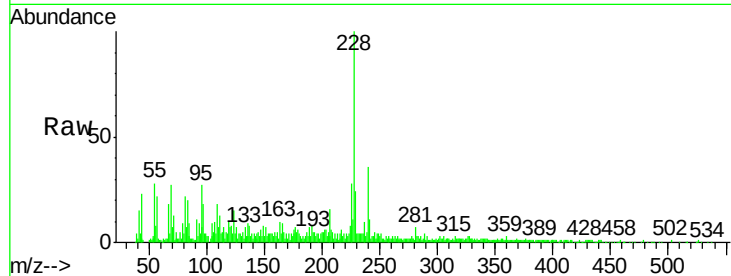
Tgt Ion:228 Resp: 71949

Ion Ratio Lower Upper

228 100

229 23.5 16.5 24.7

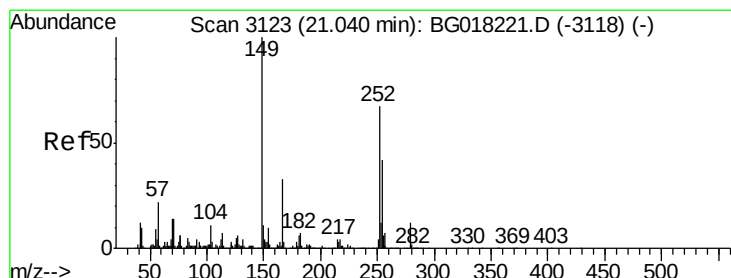
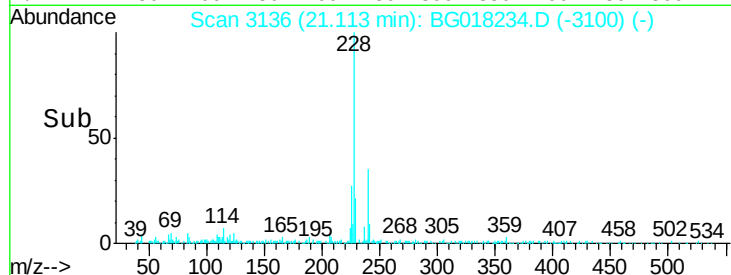
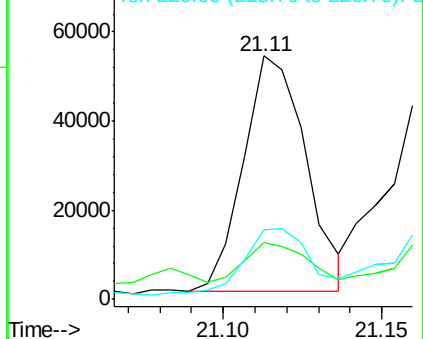
226 28.4 21.5 32.3



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



#84

Bis(2-ethylhexyl)phthalate

Concen: 15.41 ng/ul

RT: 21.05 min Scan# 3126

Delta R.T. 0.01 min

Lab File: BG018234.D

Acq: 2 Aug 2015 19:55

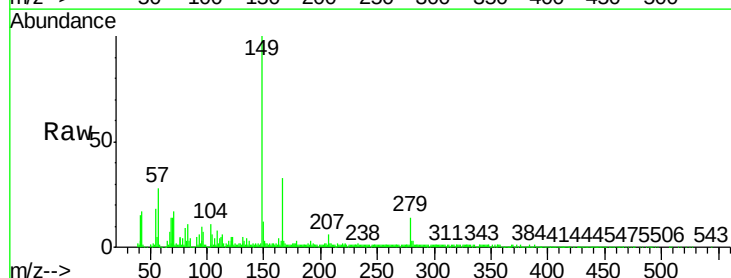
Tgt Ion:149 Resp: 160620

Ion Ratio Lower Upper

149 100

167 32.6 27.4 41.2

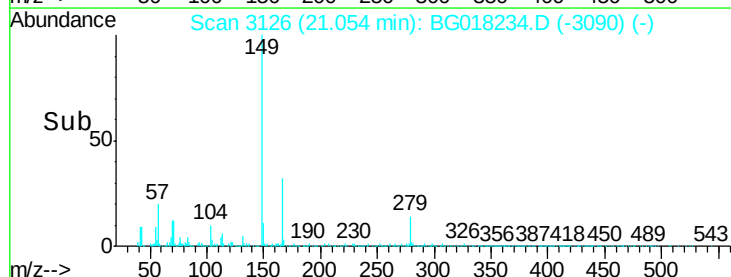
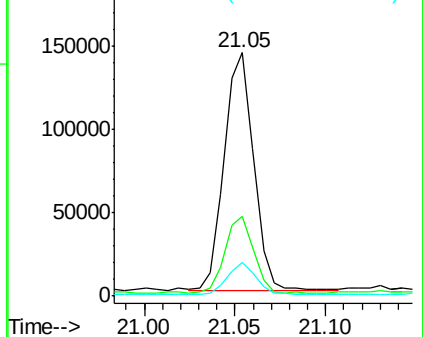
279 13.9 8.3 12.5#

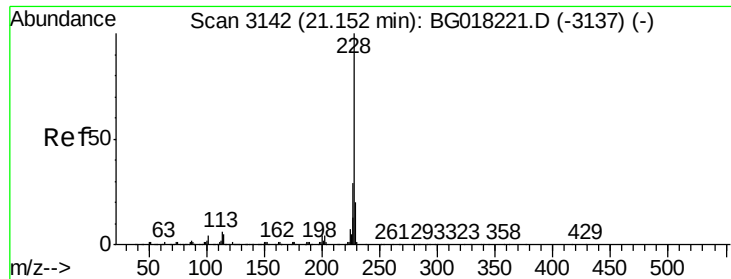


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

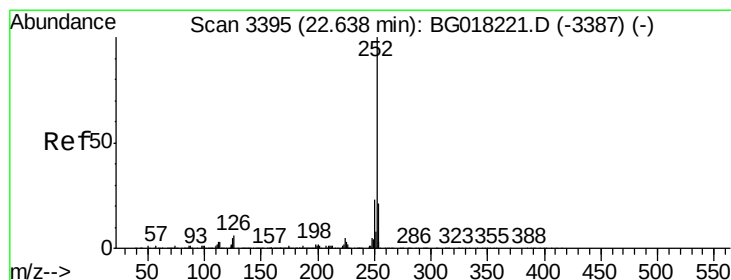
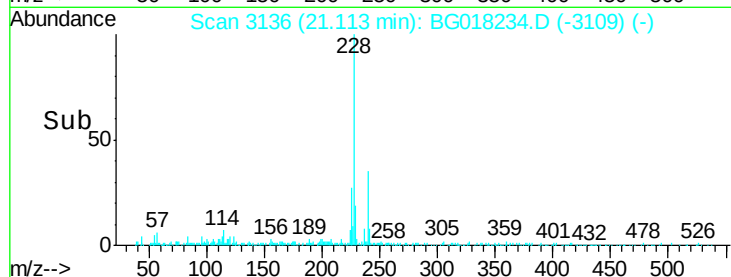
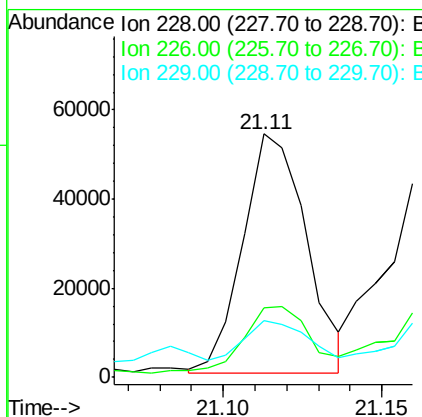
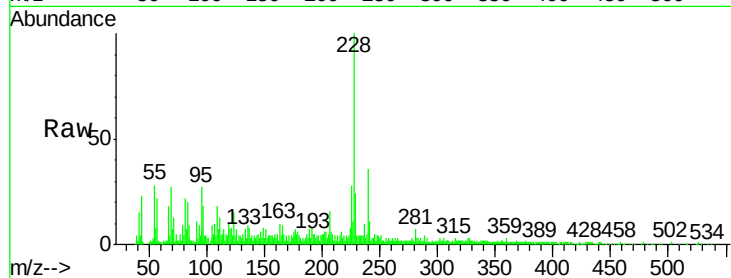




#85  
Chrysene  
Concen: 4.84 ng/ul  
RT: 21.11 min Scan# 3136  
Delta R.T. -0.04 min  
Lab File: BG018234.D  
Acq: 2 Aug 2015 19:55

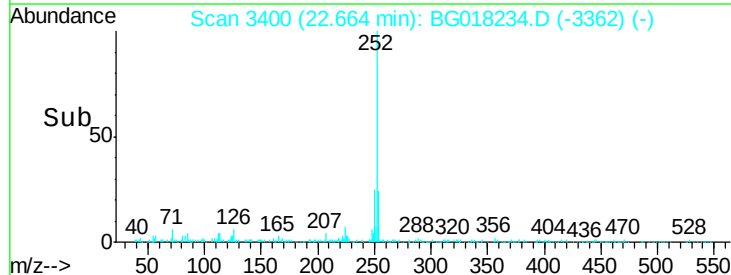
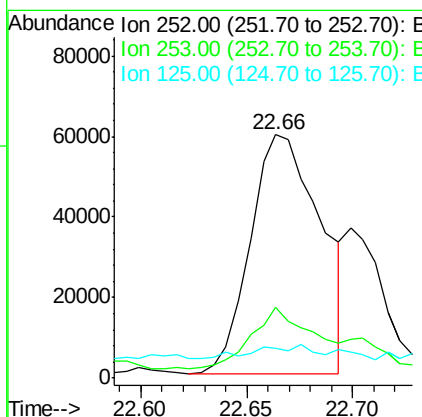
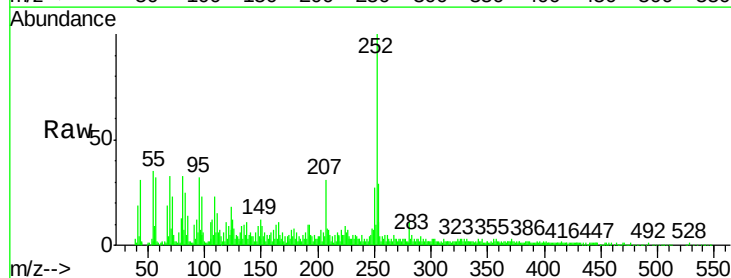
Instrument :  
BNA\_G  
ClientSampleId :  
C02L3RE

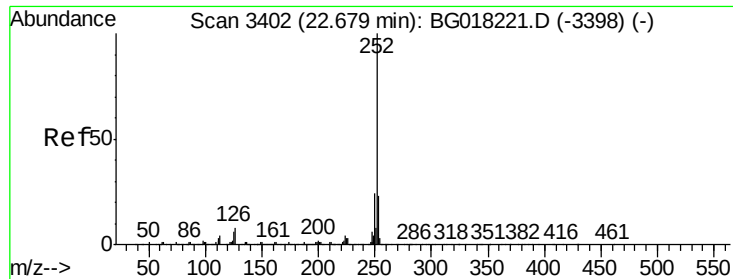
Tgt Ion: 228 Resp: 74831  
Ion Ratio Lower Upper  
228 100  
226 28.4 22.7 34.1  
229 23.5 16.2 24.2



#88  
Benzo(b)fluoranthene  
Concen: 7.99 ng/ul  
RT: 22.66 min Scan# 3400  
Delta R.T. 0.03 min  
Lab File: BG018234.D  
Acq: 2 Aug 2015 19:55

Tgt Ion: 252 Resp: 137154  
Ion Ratio Lower Upper  
252 100  
253 29.3 18.5 27.7#  
125 12.3 7.4 11.0#





#89

Benzo(k)fluoranthene

Concen: 8.69 ng/ul

RT: 22.66 min Scan# 3400

Delta R.T. -0.02 min

Lab File: BG018234.D

Acq: 2 Aug 2015 19:55

Instrument :

BNA\_G

ClientSampleId :

C02L3RE

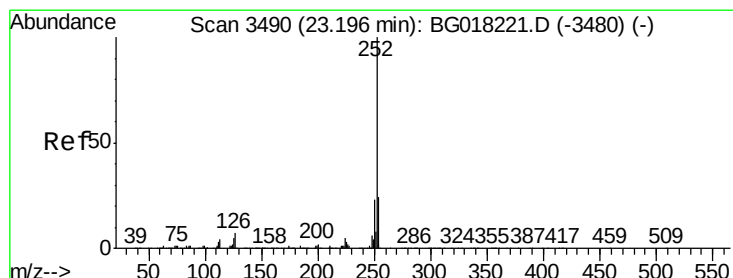
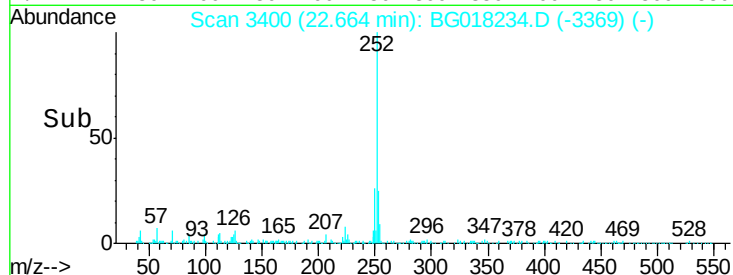
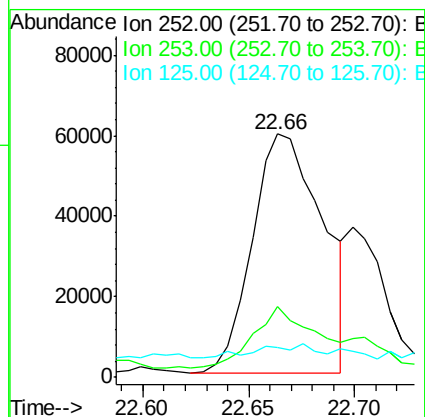
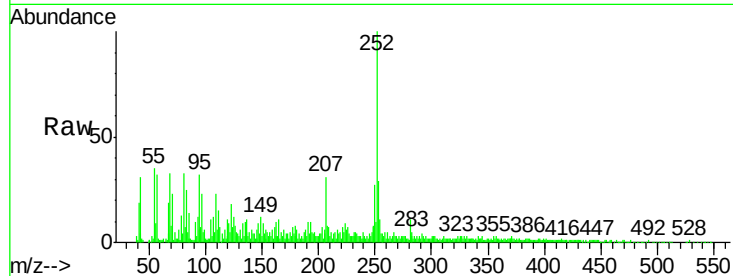
Tgt Ion:252 Resp: 137154

Ion Ratio Lower Upper

252 100

253 29.3 18.2 27.2#

125 12.3 7.5 11.3#



#91

Benzo(a)pyrene

Concen: 4.63 ng/ul

RT: 23.22 min Scan# 3495

Delta R.T. 0.03 min

Lab File: BG018234.D

Acq: 2 Aug 2015 19:55

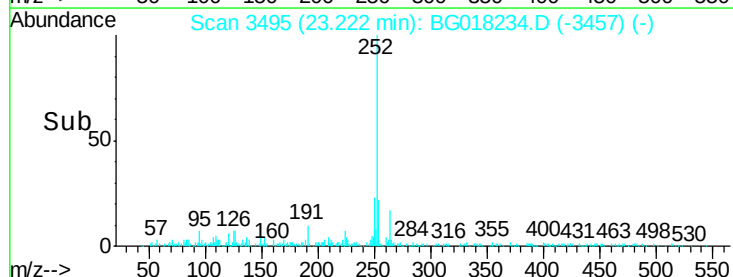
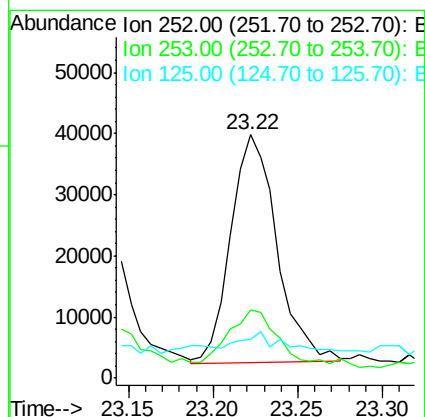
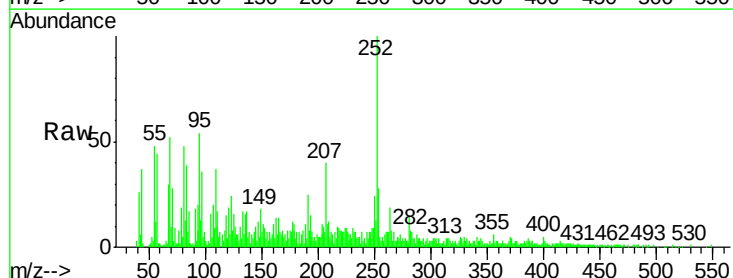
Tgt Ion:252 Resp: 71110

Ion Ratio Lower Upper

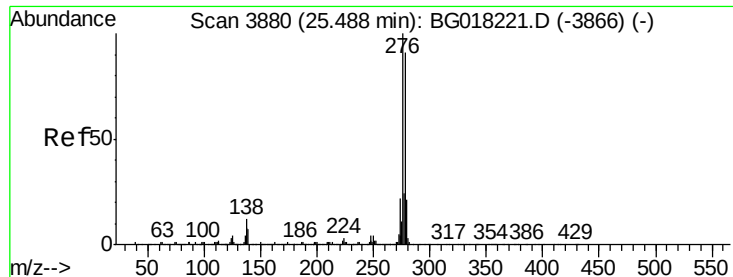
252 100

253 28.3 17.4 26.2#

125 16.0 7.3 10.9#







#92

Indeno(1,2,3-cd)pyrene

Concen: 2.51 ng/ul

RT: 25.54 min Scan# 3889

Delta R.T. 0.05 min

Lab File: BG018234.D

Acq: 2 Aug 2015 19:55

Instrument :

BNA\_G

ClientSampleId :

C02L3RE

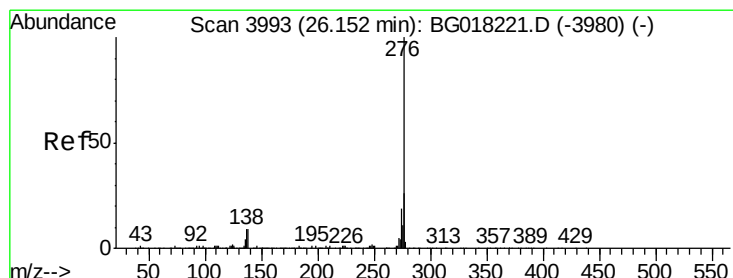
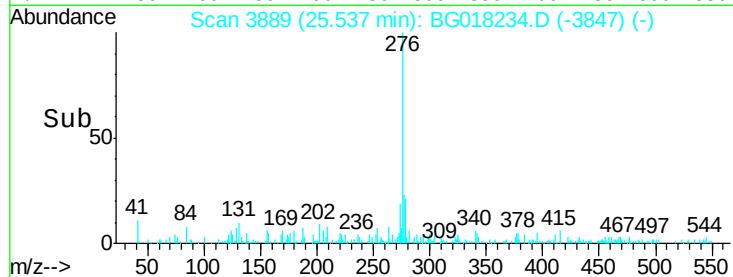
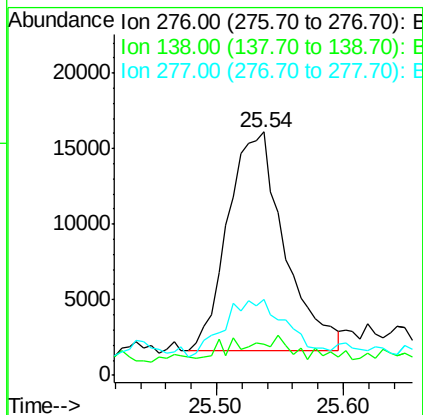
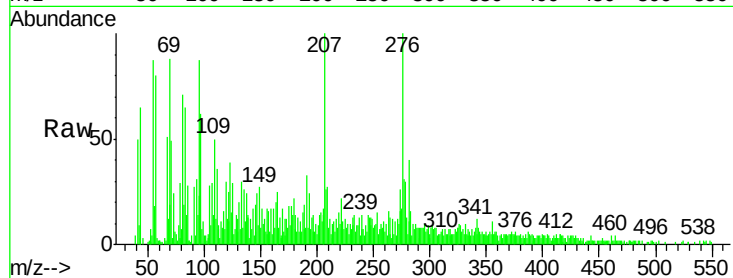
Tgt Ion:276 Resp: 44688

Ion Ratio Lower Upper

276 100

138 12.9 17.2 25.8#

277 31.1 19.5 29.3#



#94

Benzo(g,h,i)perylene

Concen: 2.61 ng/ul

RT: 26.21 min Scan# 4003

Delta R.T. 0.05 min

Lab File: BG018234.D

Acq: 2 Aug 2015 19:55

Tgt Ion:276 Resp: 37925

Ion Ratio Lower Upper

276 100

138 16.1 15.1 22.7

277 29.8 19.8 29.6#

