

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121516\  
 Data File : BG025219.D  
 Acq On : 15 Dec 2016 19:57  
 Operator : UM/SJ  
 Sample : H5995-12  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Dec 16 03:28:34 2016  
 Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Dec 16 03:23:37 2016  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.23  | 152  | 67972    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.06 | 136  | 300465   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.85 | 164  | 238383   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.60 | 188  | 525032   | 20.00 | ng/ul | 0.00     |
| 75) Chrysene-d12          | 21.89 | 240  | 647425   | 20.00 | ng/ul | 0.00     |
| 83) Perylene-d12          | 25.31 | 264  | 647171   | 20.00 | ng/ul | -0.01    |

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| System Monitoring Compounds    |       |     |        |       |       |      |
| 3) 1,4-Dioxane-d8              | 3.58  | 96  | 3649   | 2.77  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.39  | 99  | 83834  | 14.30 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.54  | 67  | 51440  | 14.18 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.76  | 132 | 61265  | 14.94 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.94  | 113 | 74955  | 15.30 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.41  | 128 | 31483  | 14.80 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.13 | 143 | 39344  | 14.83 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.68 | 165 | 79085  | 15.50 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.20 | 131 | 82289  | 16.41 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.25 | 166 | 275602 | 16.81 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.55 | 160 | 321729 | 17.91 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 15.06 | 143 | 38826  | 13.78 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.84 | 176 | 255193 | 16.53 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.97 | 200 | 45307  | 13.96 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.70 | 188 | 402259 | 18.15 | ng/ul | 0.00 |
| 76) Pyrene-d10                 | 19.97 | 212 | 521725 | 19.56 | ng/ul | 0.00 |
| 87) Benzo(a)pyrene-d12         | 25.07 | 264 | 485814 | 18.53 | ng/ul | 0.00 |

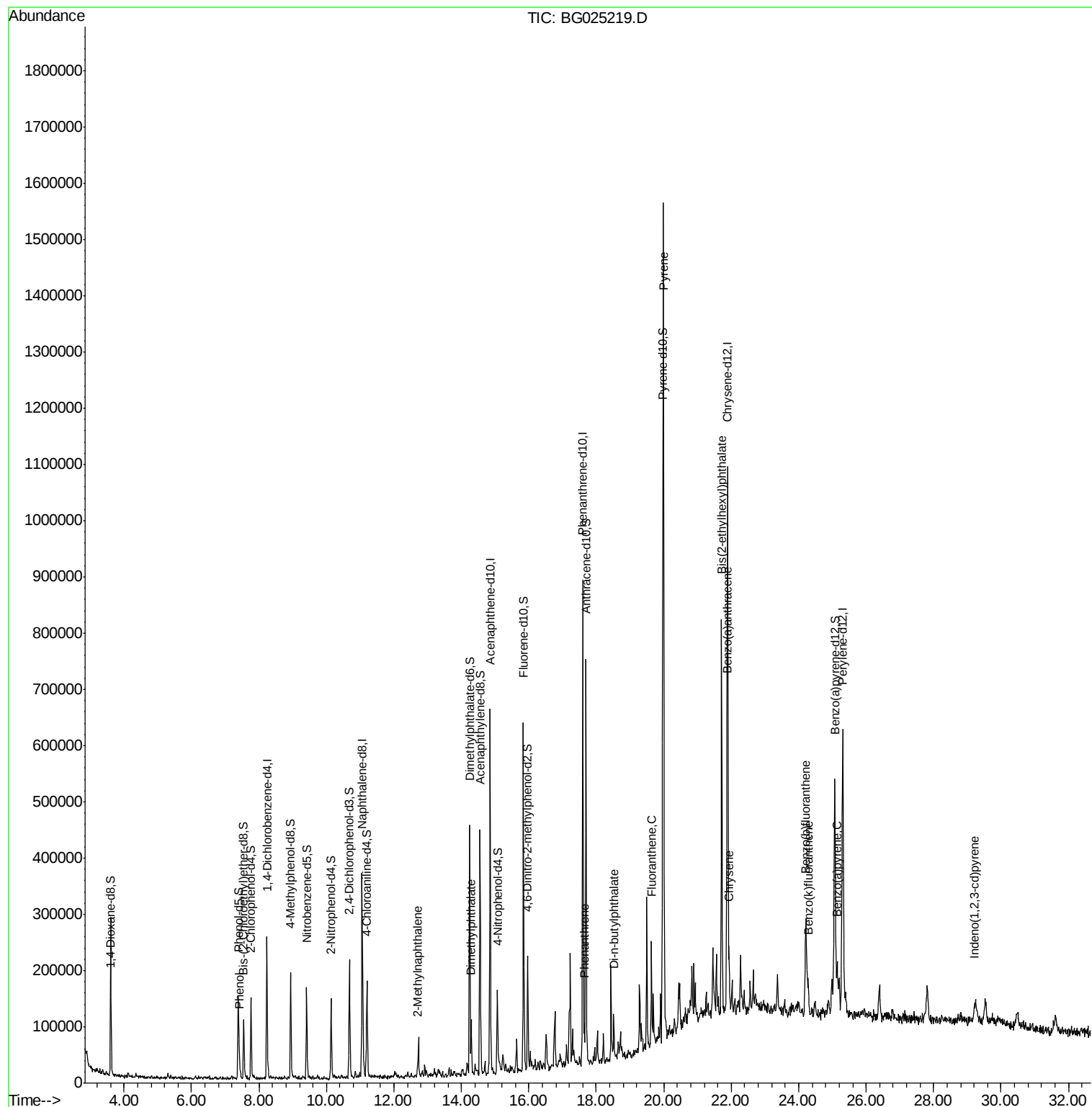
|                                |       |     |        |        |        |    |
|--------------------------------|-------|-----|--------|--------|--------|----|
| Target Compounds               |       |     |        | Ovalue |        |    |
| 6) Phenol                      | 7.42  | 94  | 17215  | 2.86   | ng/ul  | 91 |
| 34) 2-Methylnaphthalene        | 12.70 | 142 | 11714  | 1.06   | ng/ul  | 84 |
| 44) Dimethylphthalate          | 14.29 | 163 | 49951  | 3.10   | ng/ul# | 96 |
| 69) Phenanthrene               | 17.64 | 178 | 48602  | 1.94   | ng/ul# | 93 |
| 73) Di-n-butylphthalate        | 18.52 | 149 | 35677  | 1.31   | ng/ul# | 97 |
| 74) Fluoranthene               | 19.64 | 202 | 121204 | 4.07   | ng/ul# | 95 |
| 77) Pyrene                     | 20.00 | 202 | 123223 | 3.96   | ng/ul# | 96 |
| 80) Benzo(a)anthracene         | 21.87 | 228 | 93536  | 2.78   | ng/ul  | 98 |
| 81) Bis(2-ethylhexyl)phthalate | 21.72 | 149 | 254800 | 15.19  | ng/ul  | 99 |
| 82) Chrysene                   | 21.94 | 228 | 90897  | 2.89   | ng/ul  | 96 |
| 85) Benzo(b)fluoranthene       | 24.21 | 252 | 168422 | 5.25   | ng/ul# | 95 |
| 86) Benzo(k)fluoranthene       | 24.28 | 252 | 48580  | 1.59   | ng/ul  | 99 |
| 88) Benzo(a)pyrene             | 25.14 | 252 | 98945  | 3.21   | ng/ul# | 93 |
| 89) Indeno(1,2,3-cd)pyrene     | 29.22 | 276 | 61664  | 1.61   | ng/ul  | 98 |

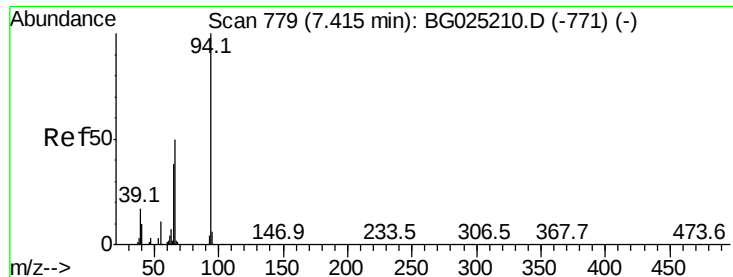
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
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QLast Update : Fri Dec 16 03:23:37 2016  
Response via : Initial Calibration





#6

Phenol

Concen: 2.86 ng/ul

RT: 7.42 min Scan# 780

Delta R.T. 0.00 min

Lab File: BG025219.D

Acq: 15 Dec 2016 19:57

Instrument :

BNA\_G

ClientSampleId :

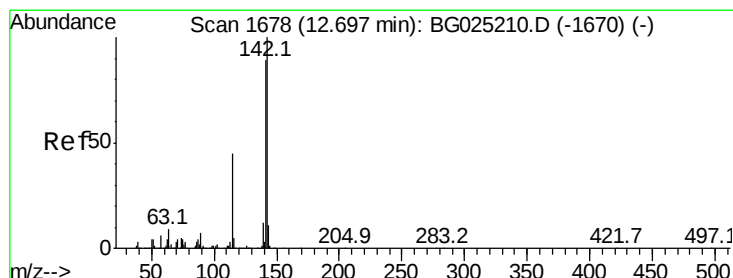
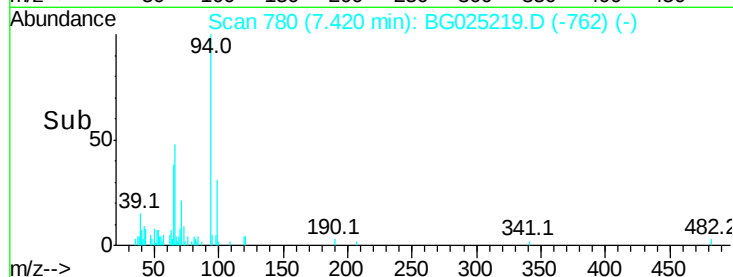
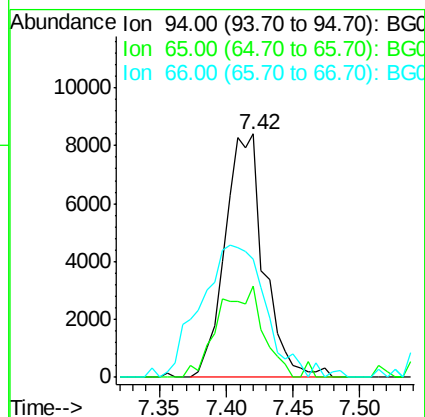
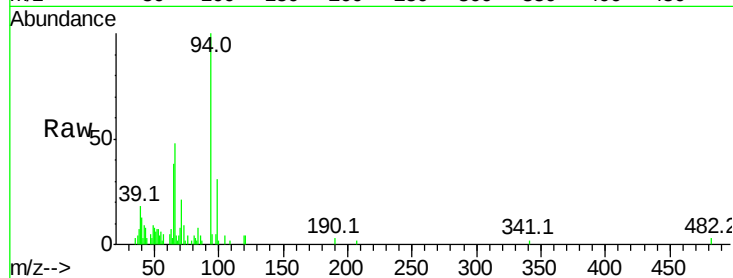
Tot Ion: 94 Resp: 17215

Ion Ratio Lower Upper

94 100

65 37.7 26.8 40.2

66 48.3 44.4 66.6



#34

2-Methylnaphthalene

Concen: 1.06 ng/ul

RT: 12.70 min Scan# 1679

Delta R.T. 0.00 min

Lab File: BG025219.D

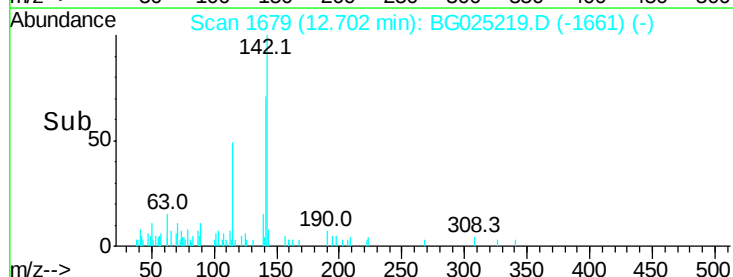
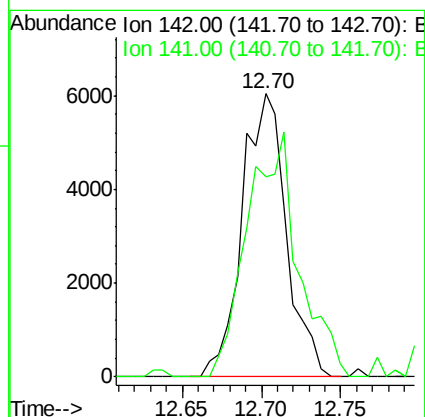
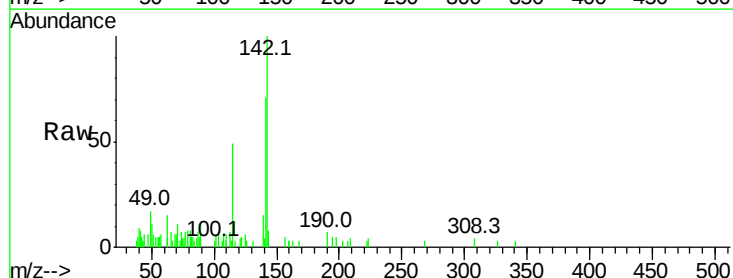
Acq: 15 Dec 2016 19:57

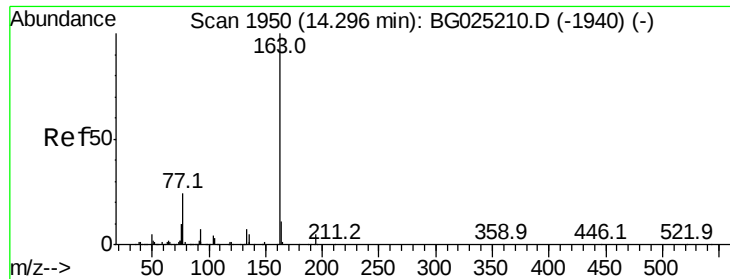
Tgt Ion: 142 Resp: 11714

Ion Ratio Lower Upper

142 100

141 70.8 68.6 102.8





#44

Dimethylphthalate

Concen: 3.10 ng/ul

RT: 14.29 min Scan# 1950

Delta R.T. -0.00 min

Lab File: BG025219.D

Acq: 15 Dec 2016 19:57

Instrument :

BNA\_G

ClientSampleId :

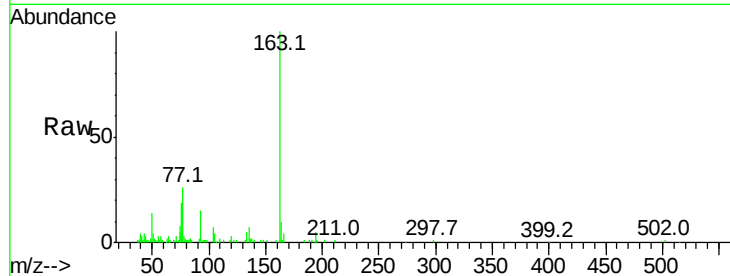
Tot Ion:163 Resp: 49951

Ion Ratio Lower Upper

163 100

194 5.2 3.4 5.0#

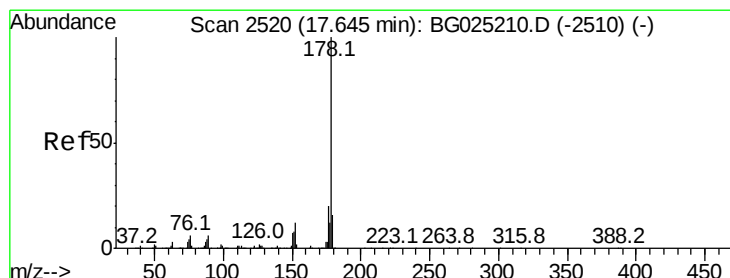
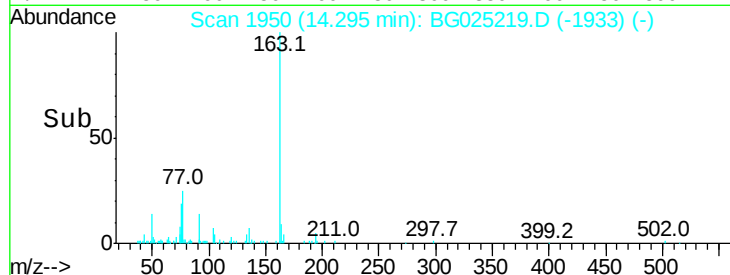
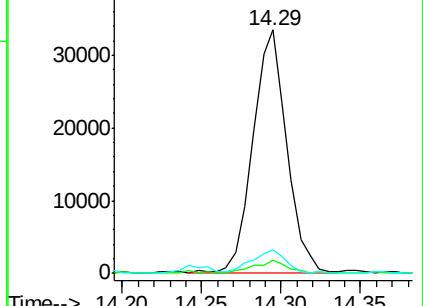
164 9.7 9.0 13.4



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#69

Phenanthrene

Concen: 1.94 ng/ul

RT: 17.64 min Scan# 2520

Delta R.T. -0.00 min

Lab File: BG025219.D

Acq: 15 Dec 2016 19:57

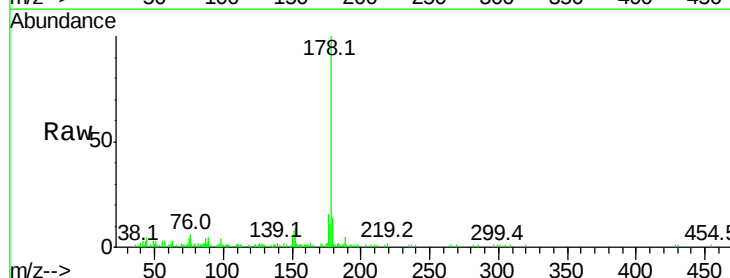
Tgt Ion:178 Resp: 48602

Ion Ratio Lower Upper

178 100

179 14.4 12.4 18.6

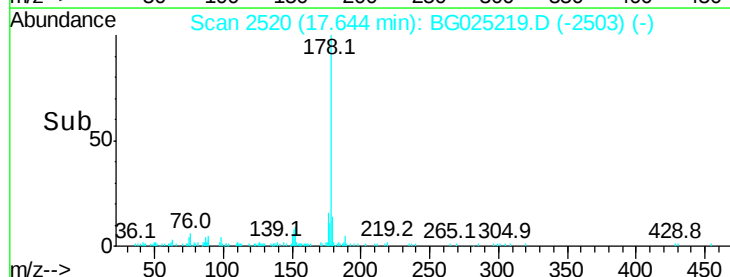
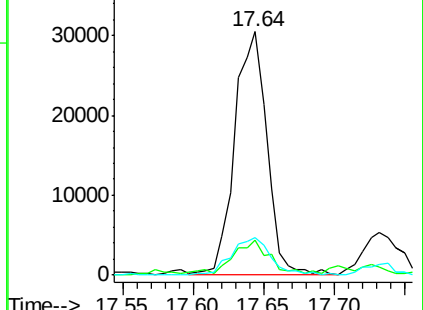
176 15.5 16.5 24.7#

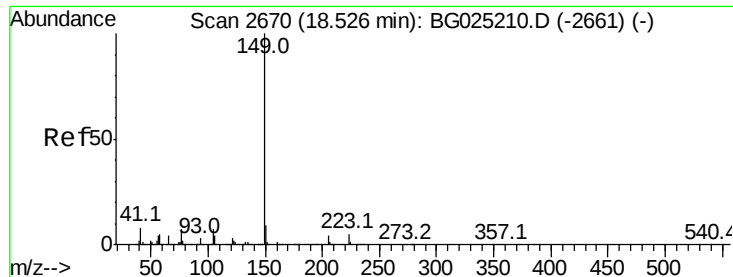


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E





#73

Di-n-butylphthalate

Concen: 1.31 ng/ul

RT: 18.52 min Scan# 2669

Delta R.T. -0.01 min

Lab File: BG025219.D

Acq: 15 Dec 2016 19:57

Instrument :

BNA\_G

ClientSampleId :

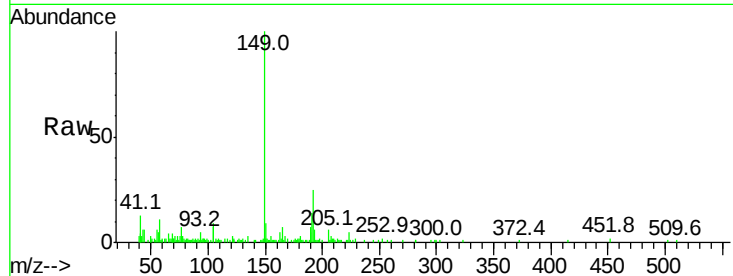
Tot Ion:149 Resp: 35677

Ion Ratio Lower Upper

149 100

150 9.3 7.9 11.9

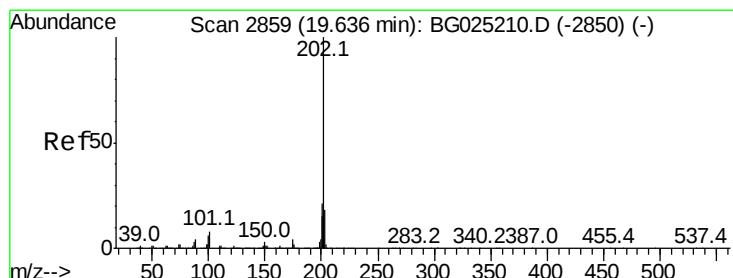
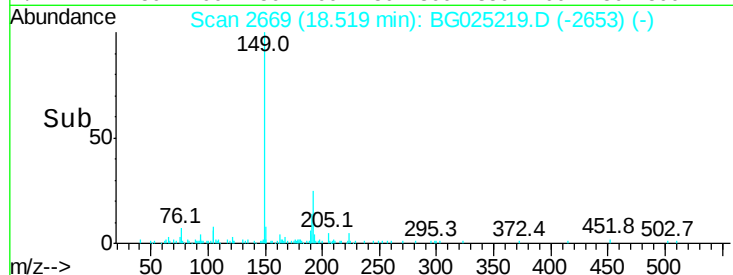
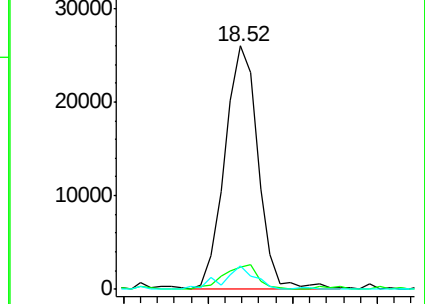
104 9.4 5.8 8.8#



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



#74

Fluoranthene

Concen: 4.07 ng/ul

RT: 19.64 min Scan# 2859

Delta R.T. -0.00 min

Lab File: BG025219.D

Acq: 15 Dec 2016 19:57

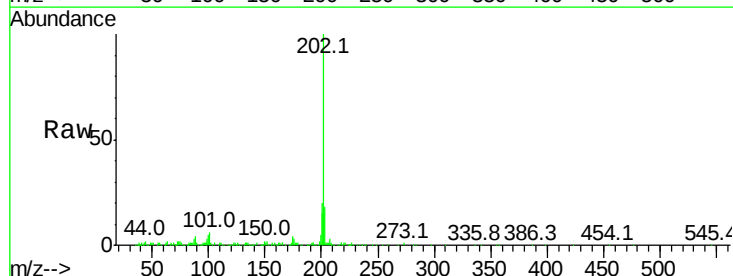
Tgt Ion:202 Resp: 121204

Ion Ratio Lower Upper

202 100

101 5.7 6.2 9.2#

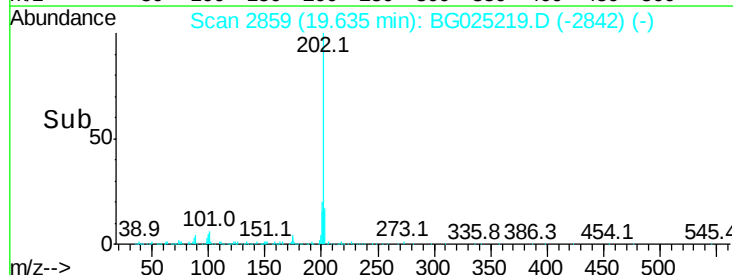
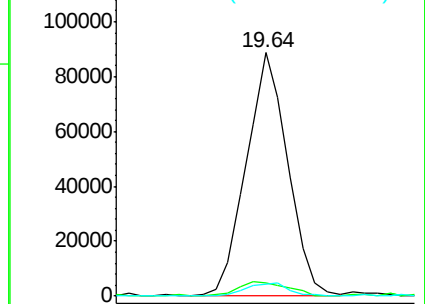
100 4.9 5.2 7.8#

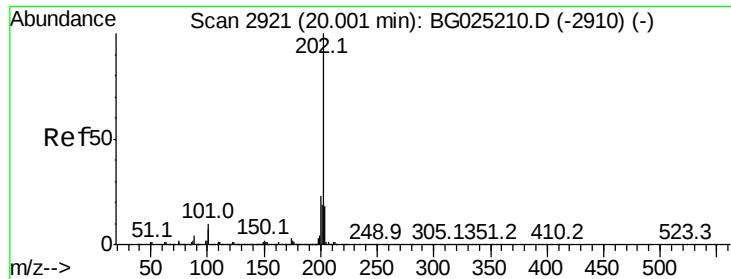


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E





#77

Pvrene

Concen: 3.96 ng/ul

RT: 20.00 min Scan# 2921

Delta R.T. -0.00 min

Lab File: BG025219.D

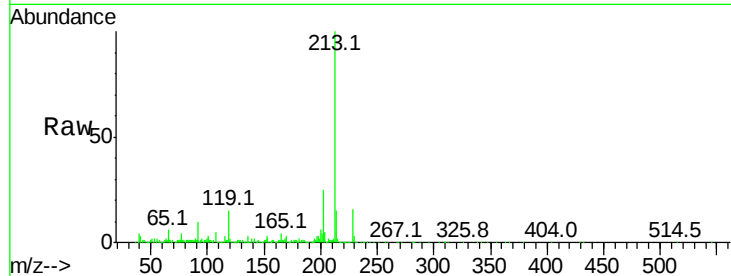
Acq: 15 Dec 2016 19:57

Instrument :

BNA\_G

ClientSampleId :

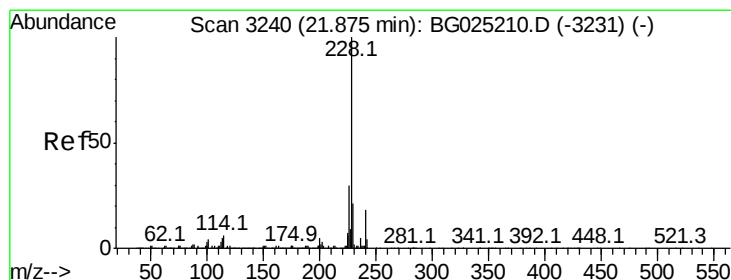
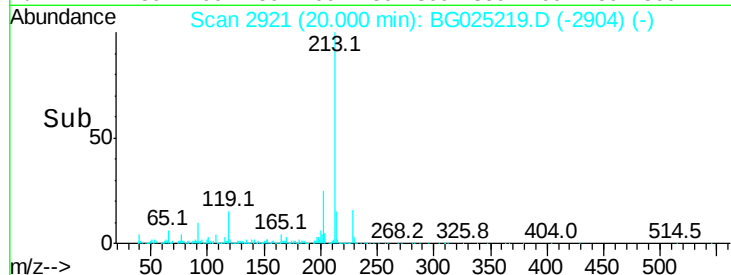
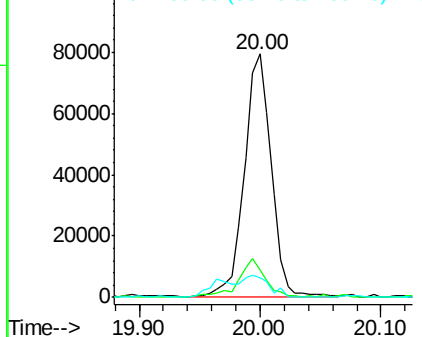
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 202   | Resp: | 123223 |
| Ion      | Ratio | Lower | Upper  |
| 202      | 100   |       |        |
| 101      | 11.1  | 6.9   | 10.3#  |
| 100      | 7.8   | 6.6   | 10.0   |



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



#80

Benzo(a)anthracene

Concen: 2.78 ng/ul

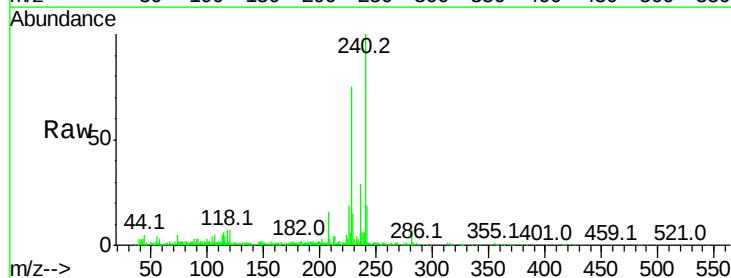
RT: 21.87 min Scan# 3239

Delta R.T. -0.01 min

Lab File: BG025219.D

Acq: 15 Dec 2016 19:57

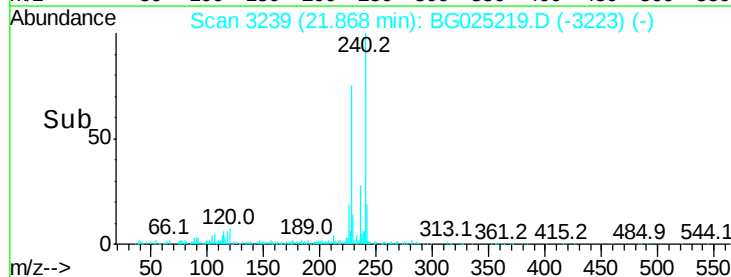
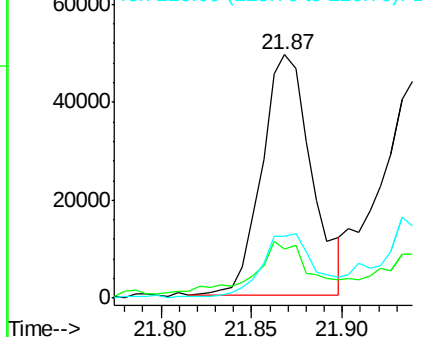
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 93536 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 229      | 20.0  | 16.3  | 24.5  |
| 226      | 25.5  | 21.9  | 32.9  |

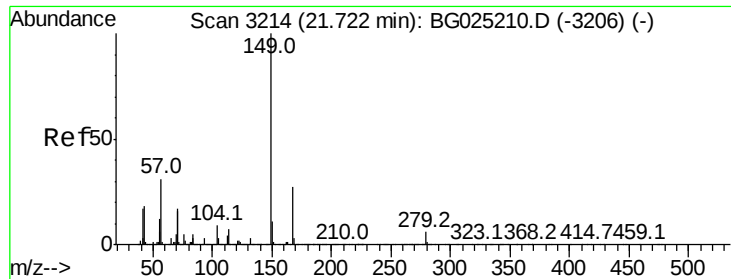


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E

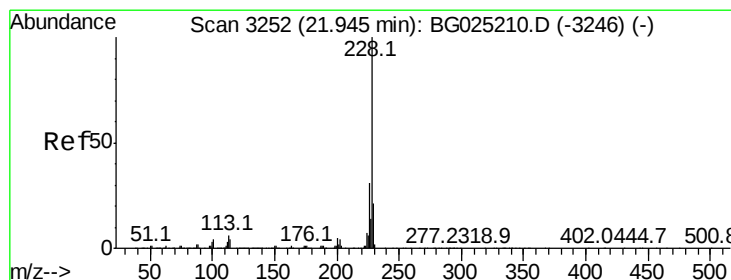
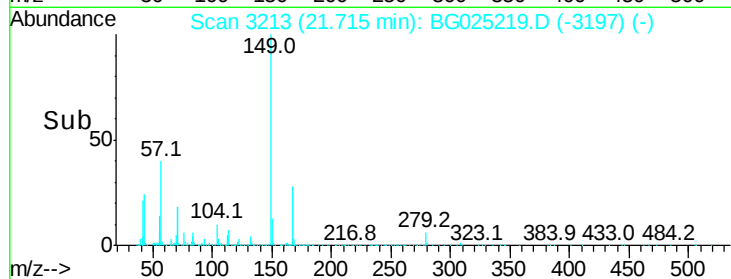
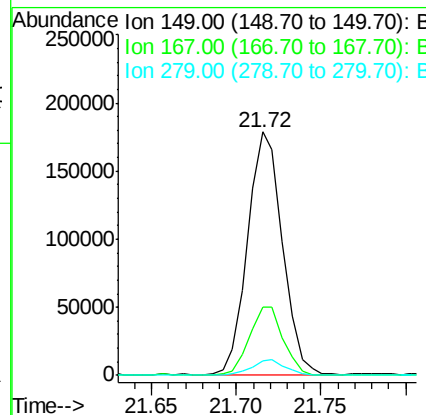
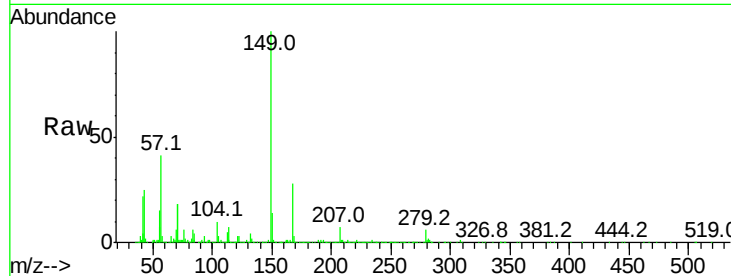




#81  
 Bis(2-ethylhexyl)phthalate  
 Concen: 15.19 ng/ul  
 RT: 21.72 min Scan# 3213  
 Delta R.T. -0.01 min  
 Lab File: BG025219.D  
 Acq: 15 Dec 2016 19:57

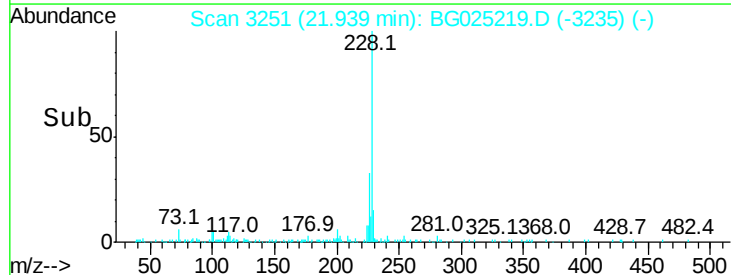
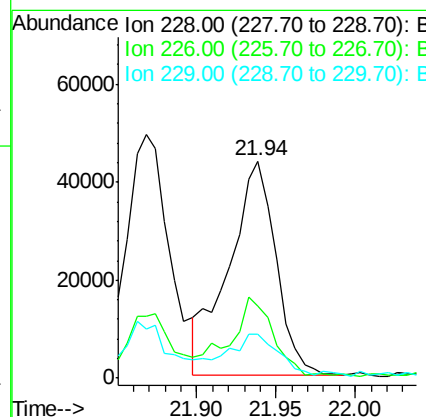
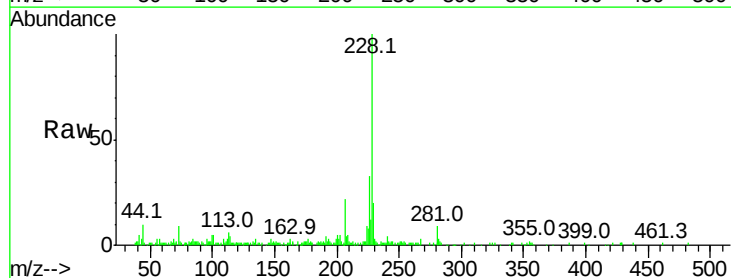
Instrument :  
 BNA\_G  
 ClientSampleId :

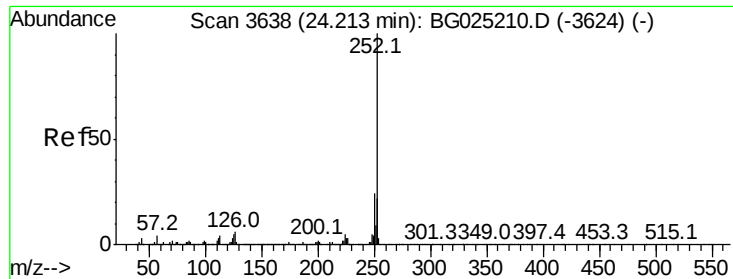
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 28.0  | 21.8  | 32.8  |
| 279     | 6.2   | 4.5   | 6.7   |



#82  
 Chrysene  
 Concen: 2.89 ng/ul  
 RT: 21.94 min Scan# 3251  
 Delta R.T. -0.01 min  
 Lab File: BG025219.D  
 Acq: 15 Dec 2016 19:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 33.3  | 24.0  | 36.0  |
| 229     | 20.5  | 16.9  | 25.3  |





#85

Benzo(b)fluoranthene

Concen: 5.25 ng/ul

RT: 24.21 min Scan# 3638

Delta R.T. -0.00 min

Lab File: BG025219.D

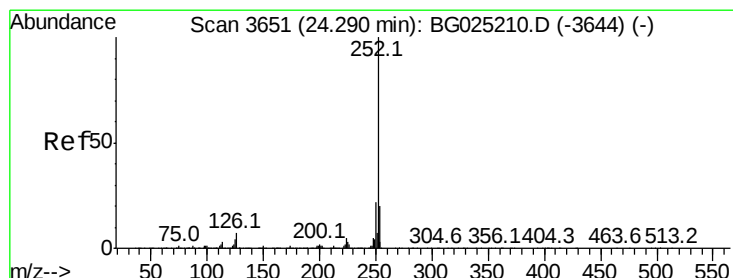
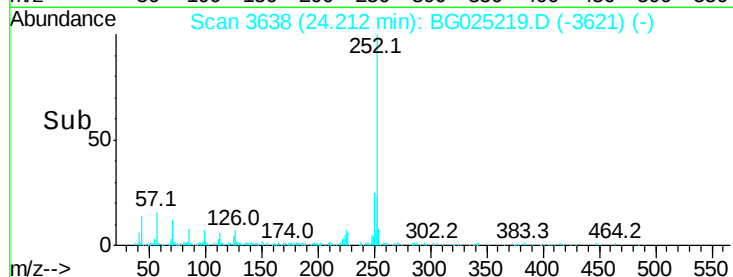
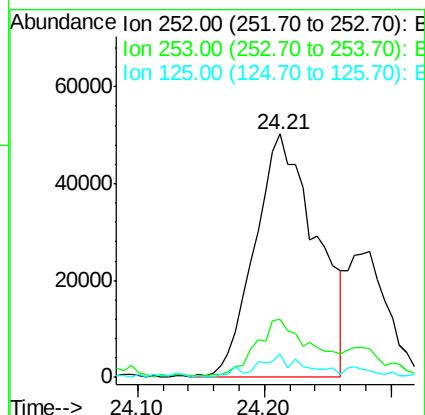
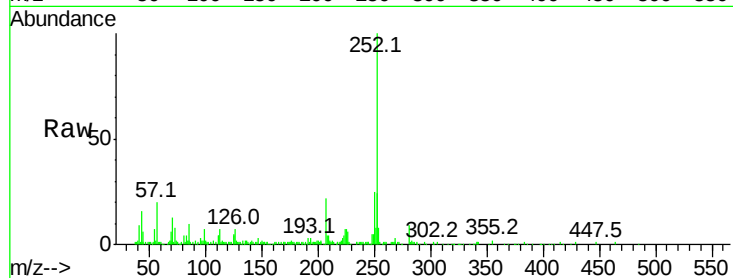
Acq: 15 Dec 2016 19:57

Instrument :

BNA\_G

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 252   | Resp: | 168422 |
| Ion      | Ratio | Lower | Upper  |
| 252      | 100   |       |        |
| 253      | 23.6  | 17.7  | 26.5   |
| 125      | 9.5   | 4.0   | 6.0    |



#86

Benzo(k)fluoranthene

Concen: 1.59 ng/ul

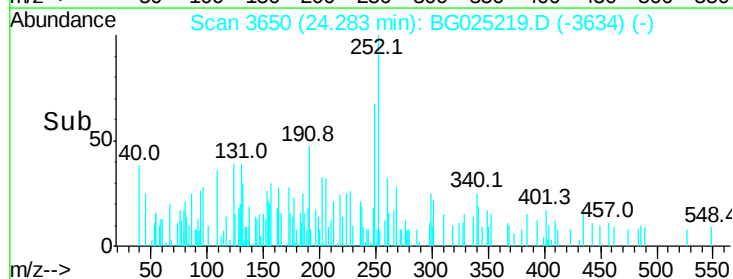
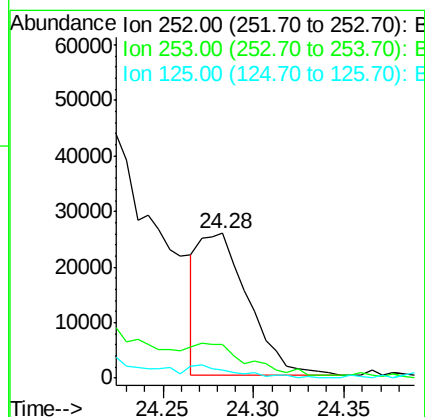
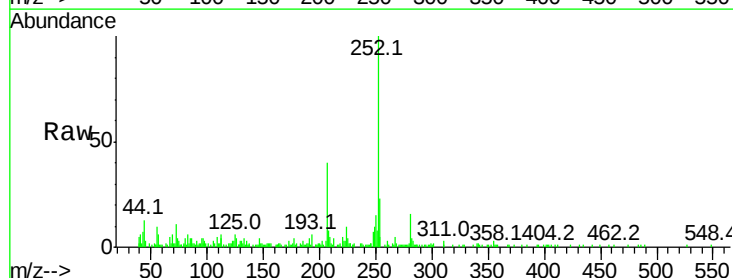
RT: 24.28 min Scan# 3650

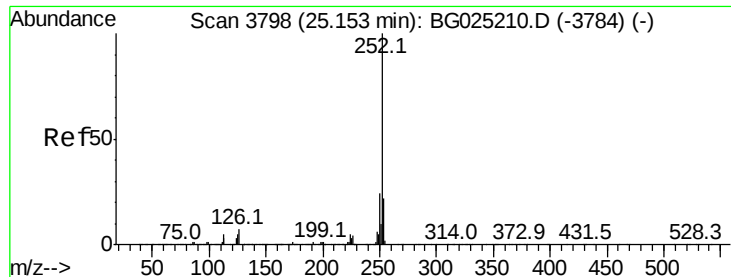
Delta R.T. -0.01 min

Lab File: BG025219.D

Acq: 15 Dec 2016 19:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 48580 |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 22.9  | 18.5  | 27.7  |
| 125      | 5.7   | 4.1   | 6.1   |





#88

Benzo(a)pyrene

Concen: 3.21 ng/ul

RT: 25.14 min Scan# 3796

Delta R.T. -0.01 min

Lab File: BG025219.D

Acq: 15 Dec 2016 19:57

Instrument :

BNA\_G

ClientSampleId :

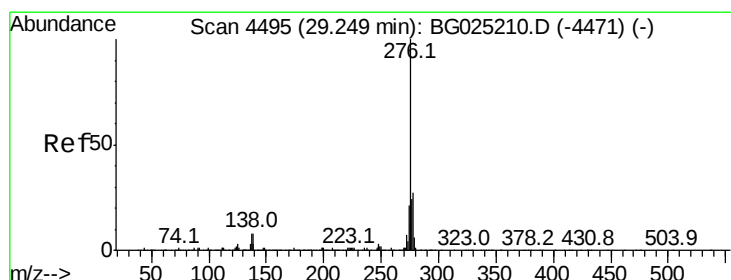
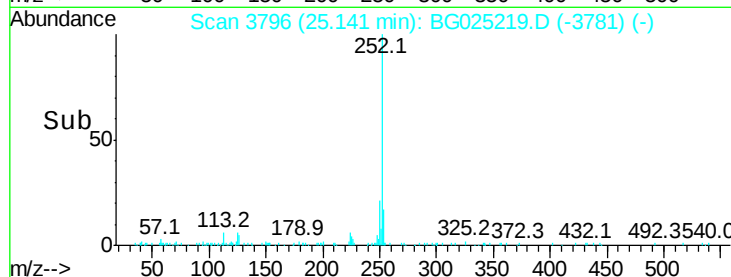
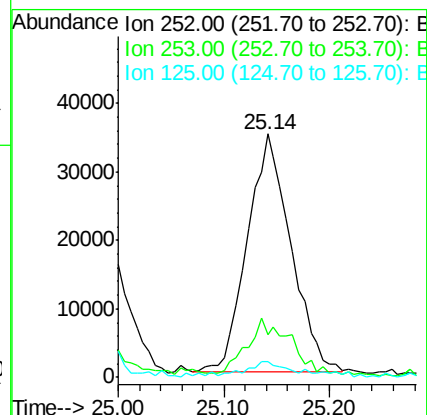
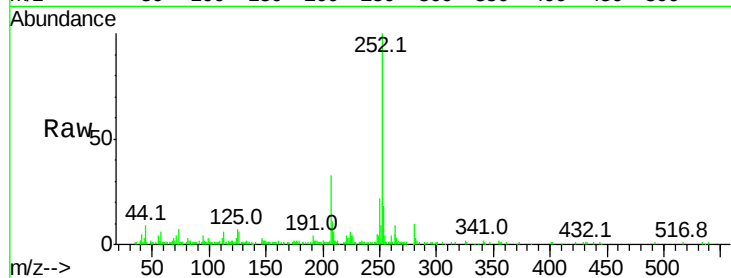
Tot Ion:252 Resp: 98945

Ion Ratio Lower Upper

252 100

253 17.7 17.8 26.6#

125 6.7 5.4 8.0



#89

Indeno(1,2,3-cd)pyrene

Concen: 1.61 ng/ul

RT: 29.22 min Scan# 4490

Delta R.T. -0.03 min

Lab File: BG025219.D

Acq: 15 Dec 2016 19:57

Tgt Ion:276 Resp: 61664

Ion Ratio Lower Upper

276 100

138 9.3 8.2 12.4

277 22.2 18.6 28.0

