

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG080819\  
 Data File : BG042114.D  
 Acq On : 9 Aug 2019 22:44  
 Operator : HP/JU  
 Sample : K4041-16  
 Misc :  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :

Quant Time: Aug 10 02:32:05 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080319MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Aug 09 16:22:05 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.03  | 152  | 80197    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.85 | 136  | 326748   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.69 | 164  | 225052   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.44 | 188  | 466267   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.72 | 240  | 467622   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 24.99 | 264  | 557065   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.41  | 96  | 3557   | 1.94  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.19  | 99  | 85340  | 13.56 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.34  | 67  | 46360  | 13.17 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.56  | 132 | 81322  | 15.11 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.74  | 113 | 64089  | 12.13 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.20  | 128 | 40140  | 16.32 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.92  | 143 | 50955  | 17.84 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.47 | 165 | 92859  | 16.11 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.99 | 131 | 80925  | 12.65 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.08 | 166 | 287735 | 16.48 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.38 | 160 | 340282 | 17.07 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.89 | 143 | 22454  | 7.66  | ng/ul | 0.01 |
| 57) Fluorene-d10               | 15.68 | 176 | 256547 | 16.52 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.80 | 200 | 34322  | 11.47 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.54 | 188 | 389203 | 17.40 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.82 | 212 | 437520 | 16.77 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 24.77 | 264 | 494916 | 17.01 | ng/ul | 0.00 |

## Target Compounds

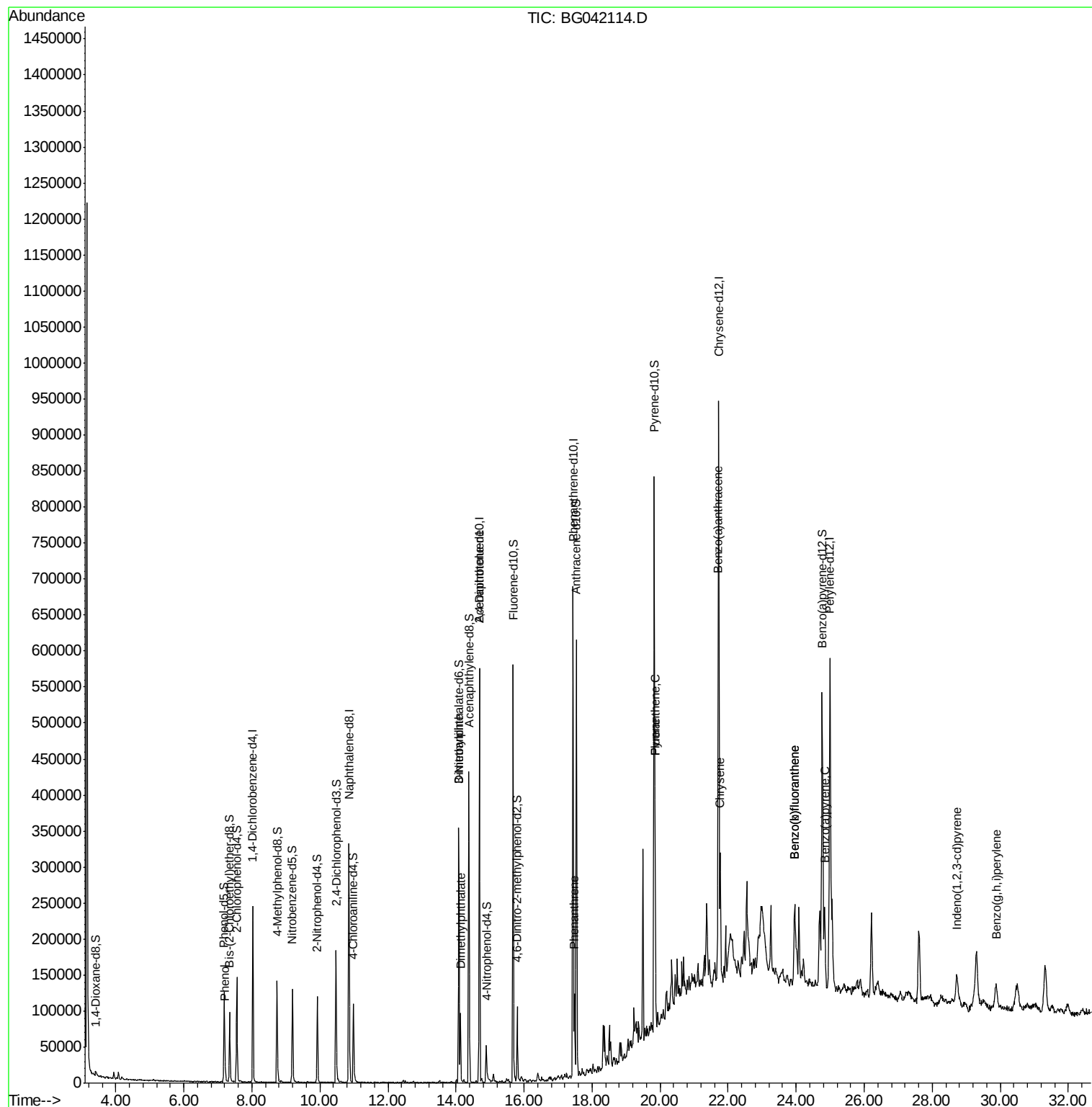
|                            |       |     |        |       | Ovalue |    |
|----------------------------|-------|-----|--------|-------|--------|----|
| 6) Phenol                  | 7.21  | 94  | 13762  | 2.118 | ng/ul# | 93 |
| 44) Dimethylphthalate      | 14.13 | 163 | 70070  | 4.043 | ng/ul  | 99 |
| 48) 3-Nitroaniline         | 14.08 | 138 | 15754  | 5.240 | ng/ul# | 60 |
| 54) 2,4-Dinitrotoluene     | 14.69 | 165 | 29975  | 5.469 | ng/ul# | 44 |
| 69) Phenanthrene           | 17.48 | 178 | 77999  | 3.056 | ng/ul  | 97 |
| 76) Fluoranthene           | 19.85 | 202 | 209193 | 7.093 | ng/ul  | 99 |
| 79) Pyrene                 | 19.85 | 202 | 209542 | 6.662 | ng/ul# | 95 |
| 82) Benzo(a)anthracene     | 21.70 | 228 | 134408 | 4.146 | ng/ul  | 98 |
| 84) Chrysene               | 21.77 | 228 | 141714 | 4.683 | ng/ul  | 97 |
| 87) Benzo(b)fluoranthene   | 23.96 | 252 | 163332 | 4.672 | ng/ul  | 99 |
| 88) Benzo(k)fluoranthene   | 23.96 | 252 | 163332 | 4.859 | ng/ul  | 99 |
| 90) Benzo(a)pyrene         | 24.84 | 252 | 130441 | 3.916 | ng/ul  | 99 |
| 91) Indeno(1,2,3-cd)pyrene | 28.72 | 276 | 75638  | 1.947 | ng/ul  | 97 |
| 93) Benzo(g,h,i)perylene   | 29.88 | 276 | 75039  | 2.313 | ng/ul  | 97 |

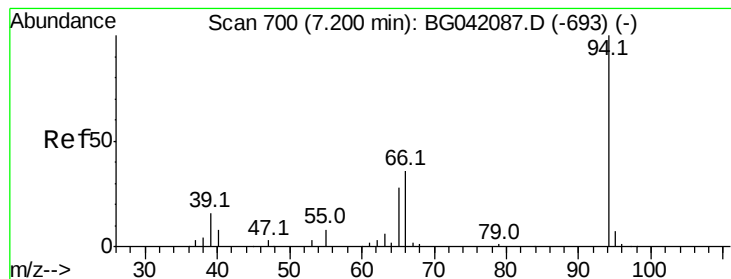
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_G  
ClientSampleId :

Quant Time: Aug 10 02:32:05 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080319MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Aug 09 16:22:05 2019  
Response via : Initial Calibration





#6

Phenol

Concen: 2.118 ng/ul

RT: 7.21 min Scan# 701

Delta R.T. 0.00 min

Lab File: BG042114.D

Acq: 9 Aug 2019 22:44

Instrument :

BNA\_G

ClientSampleId :

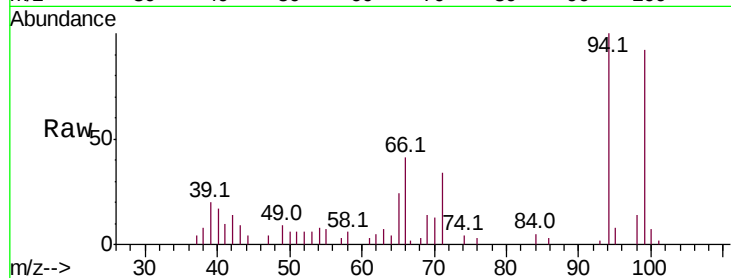
Tot Ion: 94 Resp: 13762

Ion Ratio Lower Upper

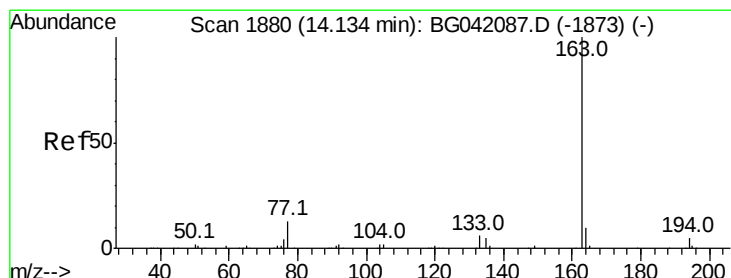
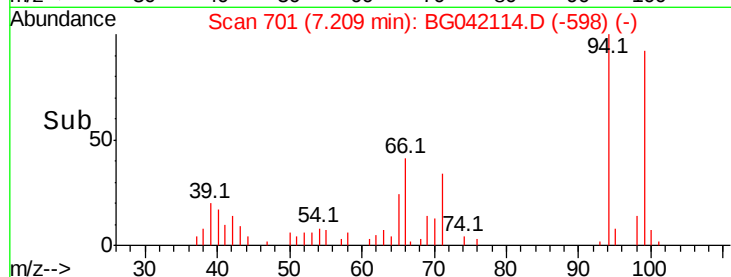
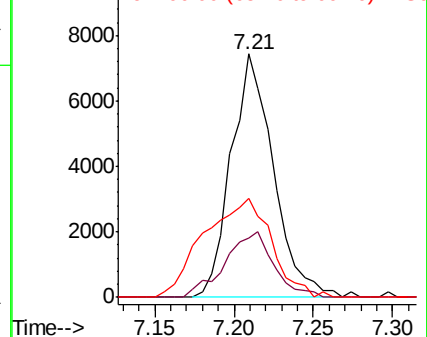
94 100

65 24.3 25.8 38.6#

66 40.7 31.8 47.8



Abundance Ion 94.00 (93.70 to 94.70): BGC  
Ion 65.00 (64.70 to 65.70): BGC  
Ion 66.00 (65.70 to 66.70): BGC



#44

Dimethylphthalate

Concen: 4.043 ng/ul

RT: 14.13 min Scan# 1879

Delta R.T. -0.00 min

Lab File: BG042114.D

Acq: 9 Aug 2019 22:44

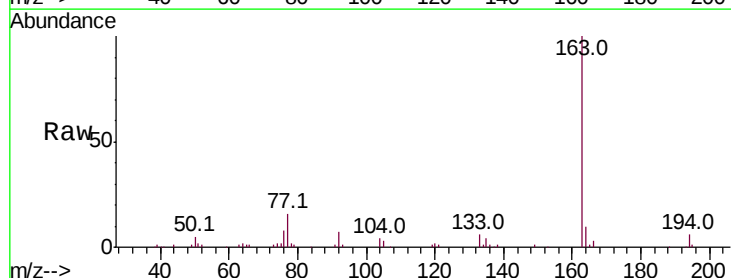
Tgt Ion:163 Resp: 70070

Ion Ratio Lower Upper

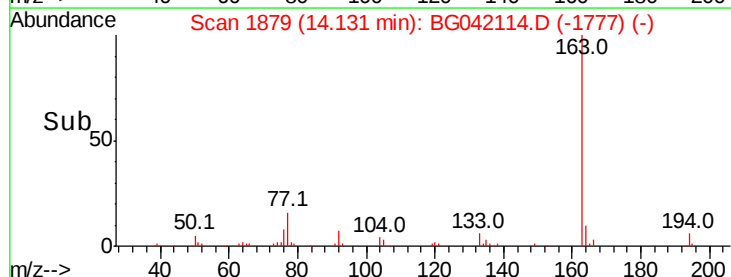
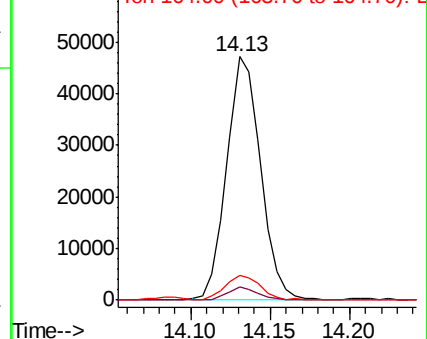
163 100

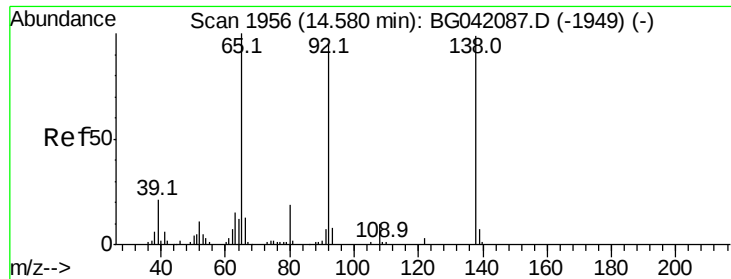
194 5.7 4.2 6.2

164 10.1 7.8 11.8



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





#48

3-Nitroaniline

Concen: 5.240 ng/ul

RT: 14.08 min Scan# 1871

Delta R.T. -0.50 min

Lab File: BG042114.D

Acq: 9 Aug 2019 22:44

Instrument :

BNA\_G

ClientSampleId :

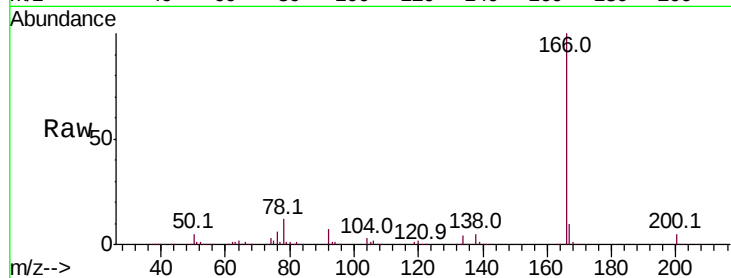
Tot Ion:138 Resp: 15754

Ion Ratio Lower Upper

138 100

108 1.7 7.6 11.4#

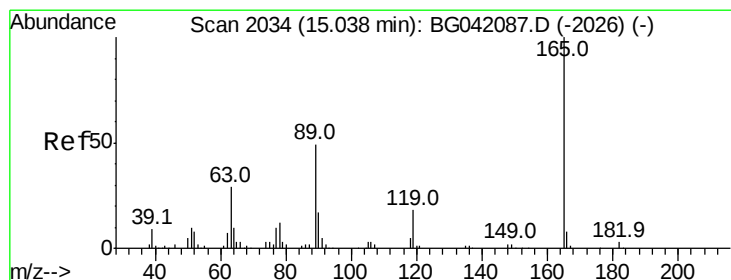
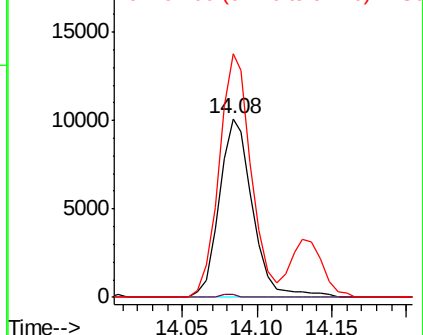
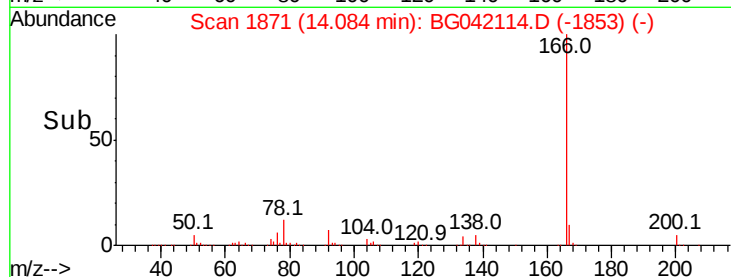
92 136.4 76.4 114.6#



Abundance Ion 138.00 (137.70 to 138.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 92.00 (91.70 to 92.70): BGC



#54

2,4-Dinitrotoluene

Concen: 5.469 ng/ul

RT: 14.69 min Scan# 1974

Delta R.T. -0.36 min

Lab File: BG042114.D

Acq: 9 Aug 2019 22:44

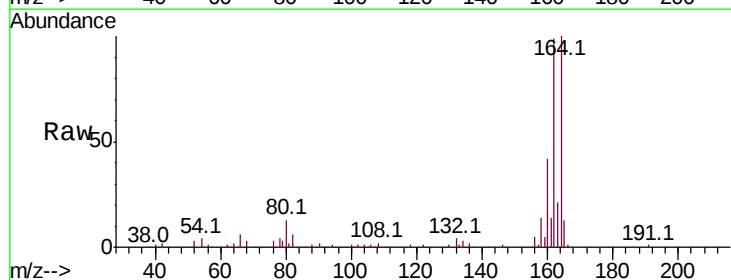
Tgt Ion:165 Resp: 29975

Ion Ratio Lower Upper

165 100

63 1.1 29.4 44.2#

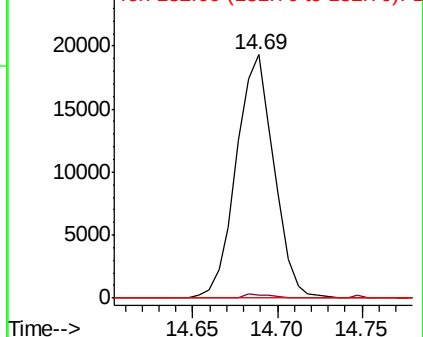
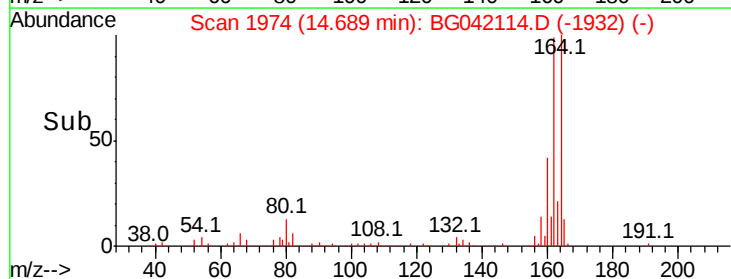
182 0.0 2.6 4.0#

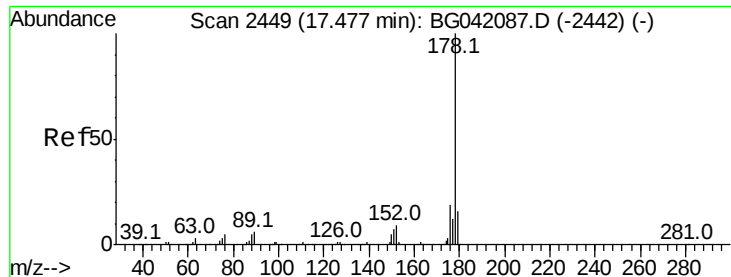


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BGC

Ion 182.00 (181.70 to 182.70): E





#69

Phenanthrene

Concen: 3.056 ng/ul

RT: 17.48 min Scan# 2449

Delta R.T. -0.00 min

Lab File: BG042114.D

Acq: 9 Aug 2019 22:44

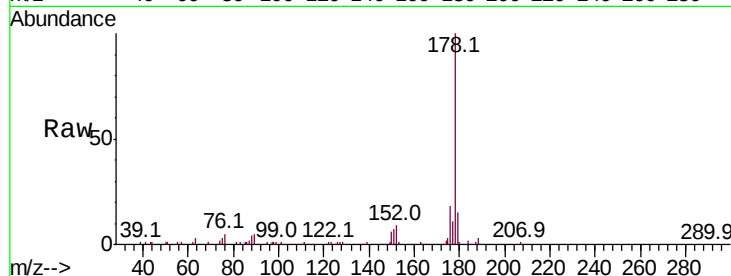
Instrument :

BNA\_G

ClientSampleId :

Tot Ion:178 Resp: 77999

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 14.6  | 12.8  | 19.2  |
| 176 | 18.0  | 15.4  | 23.2  |

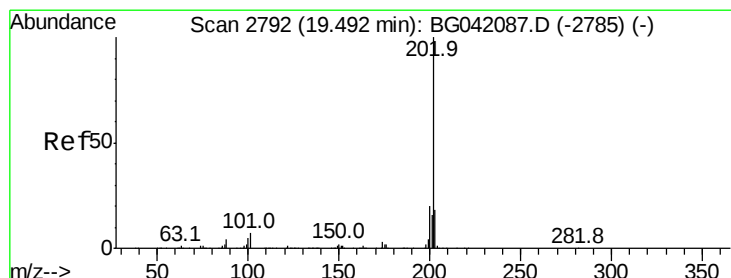
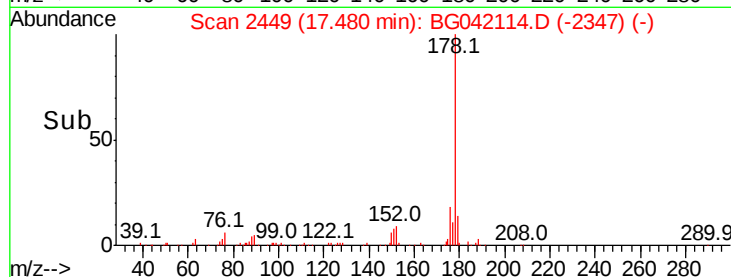
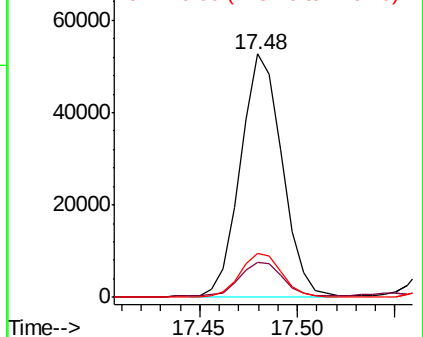


Abundance

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

Fluoranthene

Concen: 7.093 ng/ul

RT: 19.85 min Scan# 2853

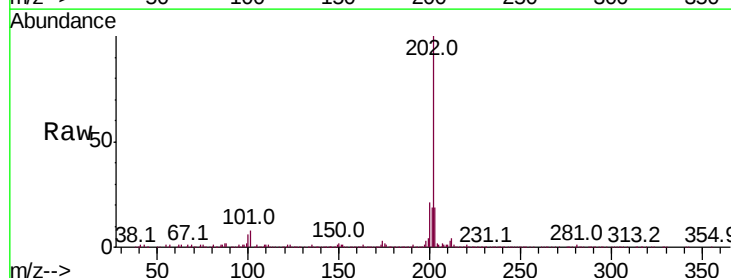
Delta R.T. 0.36 min

Lab File: BG042114.D

Acq: 9 Aug 2019 22:44

Tgt Ion:202 Resp: 209193

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 7.9   | 6.7   | 10.1  |
| 100 | 6.3   | 5.3   | 7.9   |

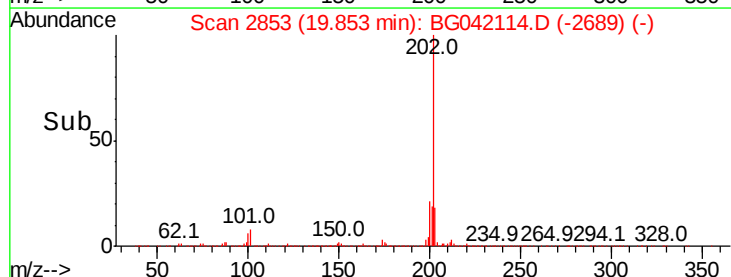
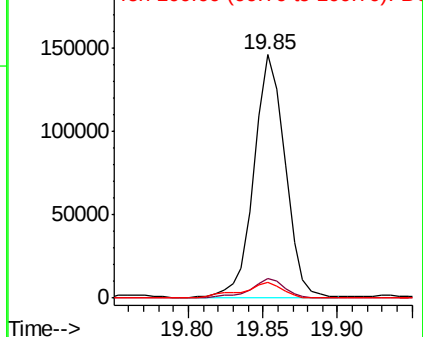


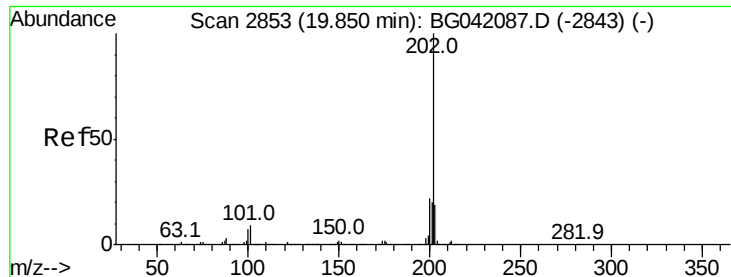
Abundance

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





#79

Pvrene

Concen: 6.662 ng/ul

RT: 19.85 min Scan# 2853

Delta R.T. -0.00 min

Lab File: BG042114.D

Acq: 9 Aug 2019 22:44

Instrument :

BNA\_G

ClientSampleId :

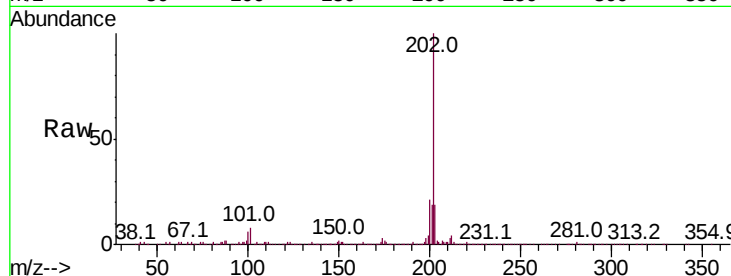
Tot Ion:202 Resp: 209542

Ion Ratio Lower Upper

202 100

101 7.9 7.6 11.4

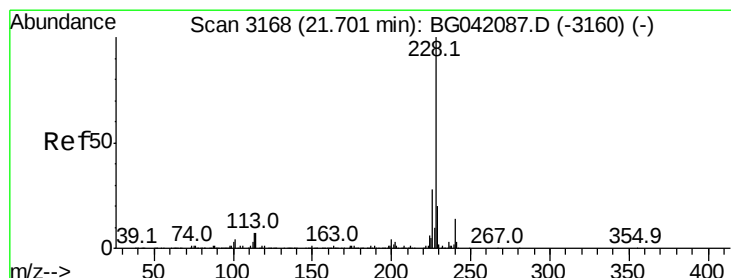
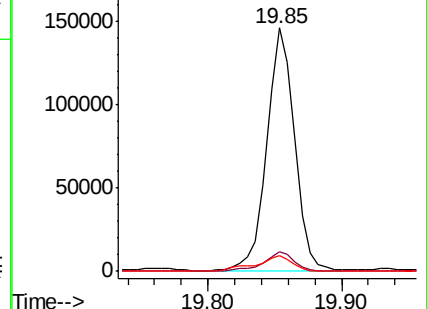
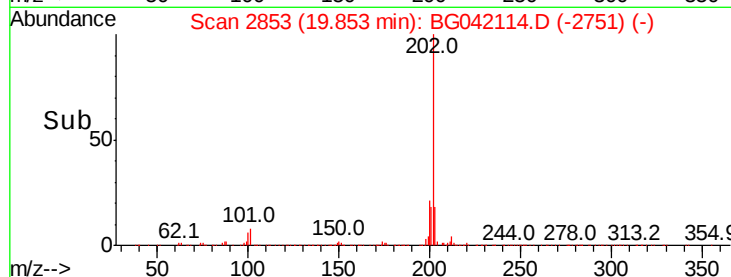
100 6.3 6.5 9.7#



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



#82

Benzo(a)anthracene

Concen: 4.146 ng/ul

RT: 21.70 min Scan# 3168

Delta R.T. 0.00 min

Lab File: BG042114.D

Acq: 9 Aug 2019 22:44

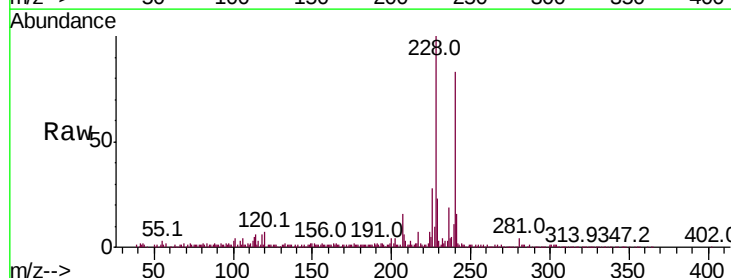
Tgt Ion:228 Resp: 134408

Ion Ratio Lower Upper

228 100

229 23.0 17.0 25.6

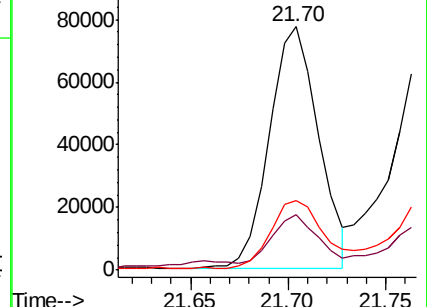
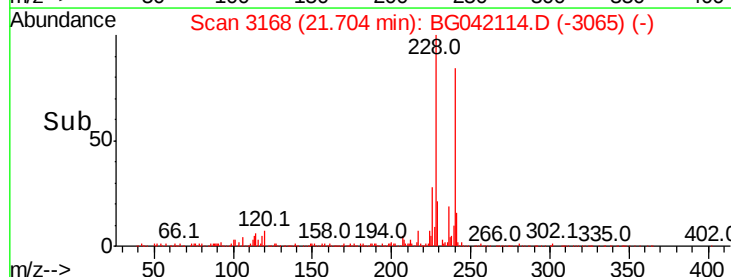
226 28.4 23.3 34.9

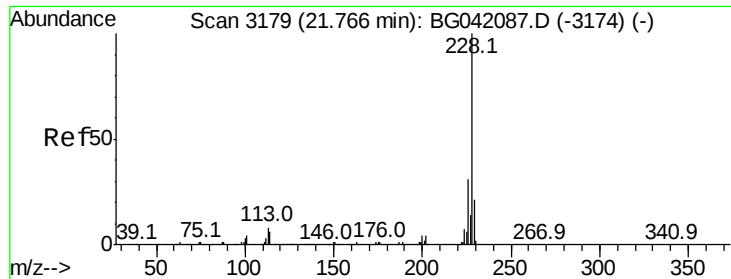


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#84

Chrysene

Concen: 4.683 ng/ul

RT: 21.77 min Scan# 3179

Delta R.T. 0.00 min

Lab File: BG042114.D

Acq: 9 Aug 2019 22:44

Instrument :

BNA\_G

ClientSampled :

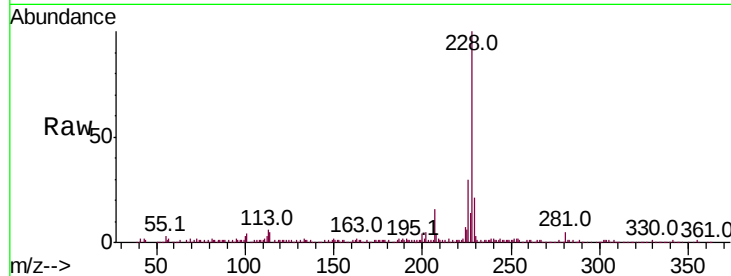
Tot Ion:228 Resp: 141714

Ion Ratio Lower Upper

228 100

226 29.6 25.7 38.5

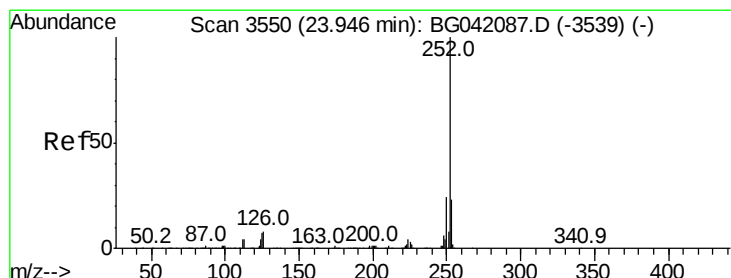
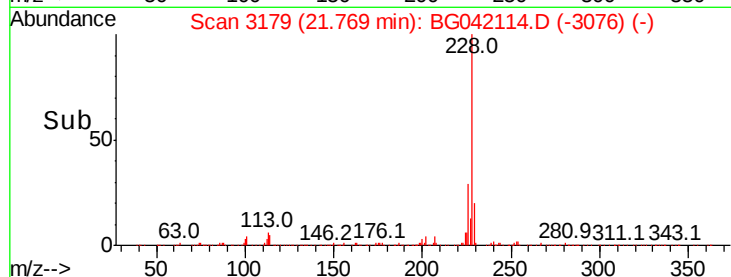
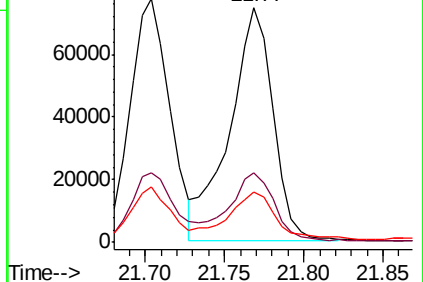
229 21.4 16.6 24.8



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



#87

Benzo(b)fluoranthene

Concen: 4.672 ng/ul

RT: 23.96 min Scan# 3552

Delta R.T. 0.01 min

Lab File: BG042114.D

Acq: 9 Aug 2019 22:44

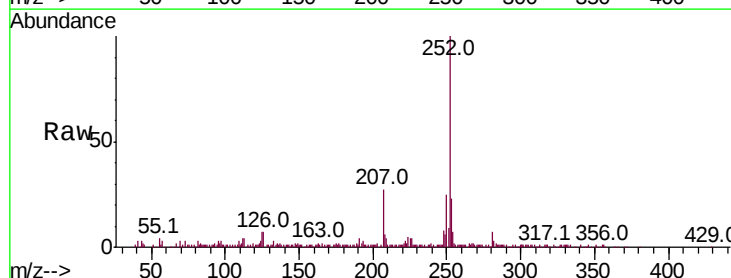
Tgt Ion:252 Resp: 163332

Ion Ratio Lower Upper

252 100

253 23.5 18.4 27.6

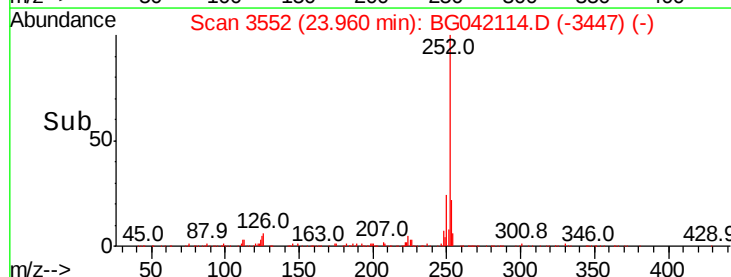
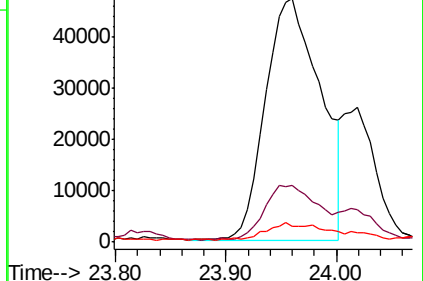
125 6.6 5.8 8.8

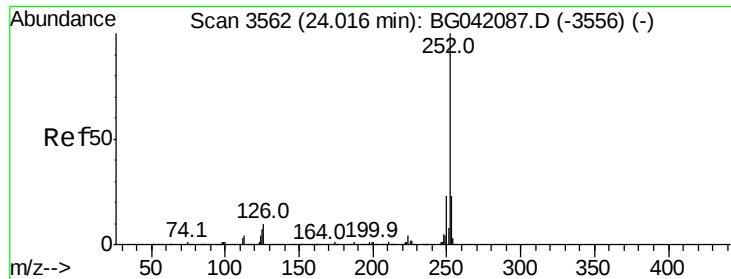


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

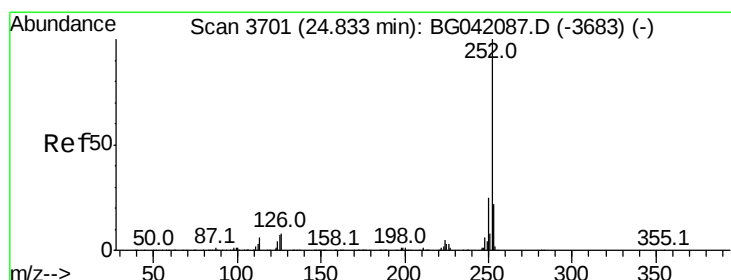
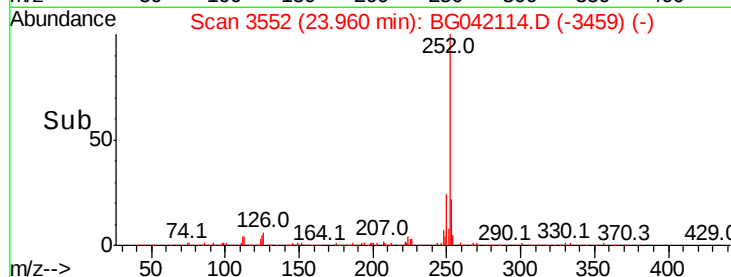
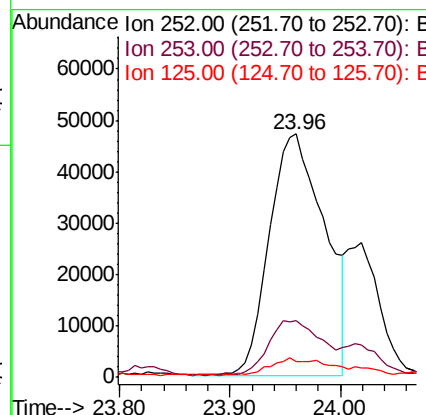
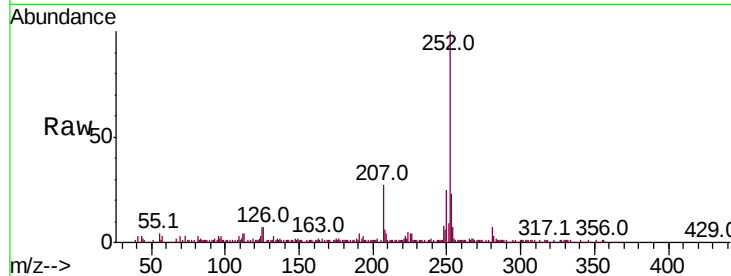




#88  
Benzo(k)fluoranthene  
Concen: 4.859 ng/ul  
RT: 23.96 min Scan# 3552  
Delta R.T. -0.06 min  
Lab File: BG042114.D  
Acq: 9 Aug 2019 22:44

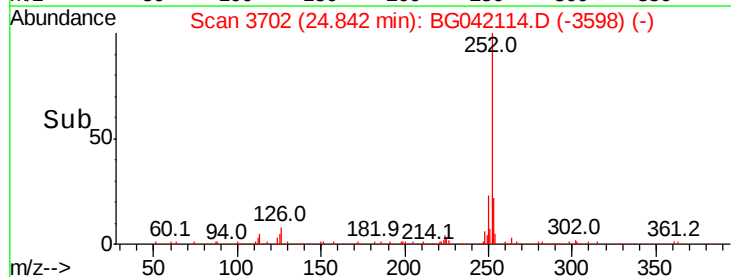
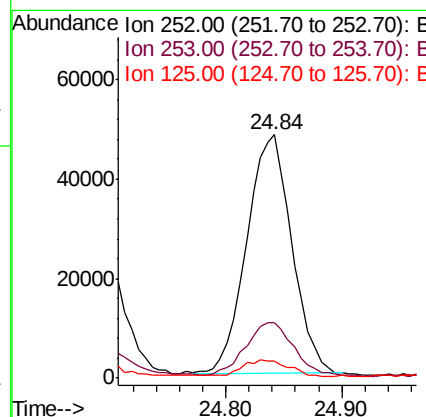
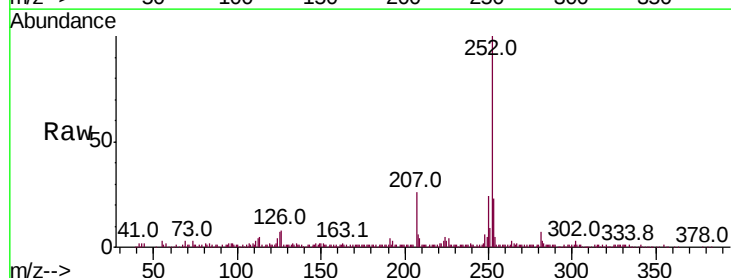
Instrument :  
BNA\_G  
ClientSampleId :

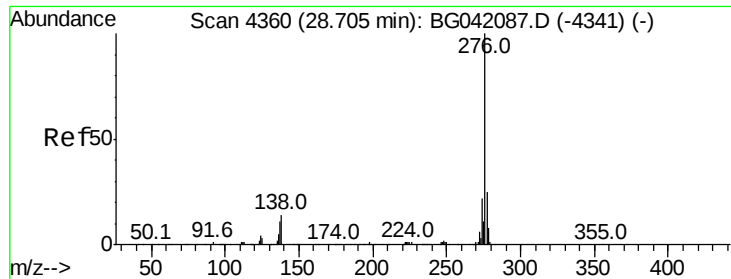
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 18.3  | 27.5  |
| 125     | 6.6   | 5.5   | 8.3   |



#90  
Benzo(a)pyrene  
Concen: 3.916 ng/ul  
RT: 24.84 min Scan# 3702  
Delta R.T. 0.01 min  
Lab File: BG042114.D  
Acq: 9 Aug 2019 22:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 18.3  | 27.5  |
| 125     | 6.8   | 6.5   | 9.7   |



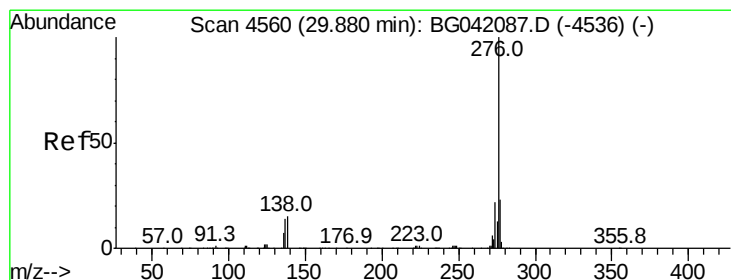
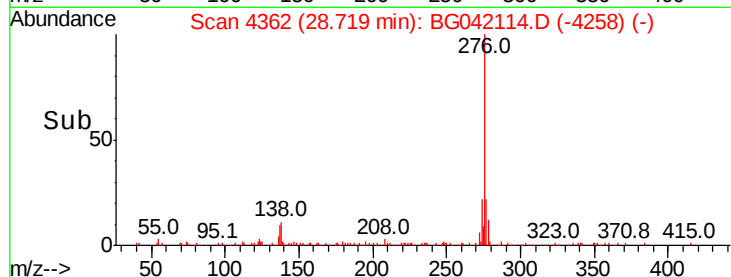
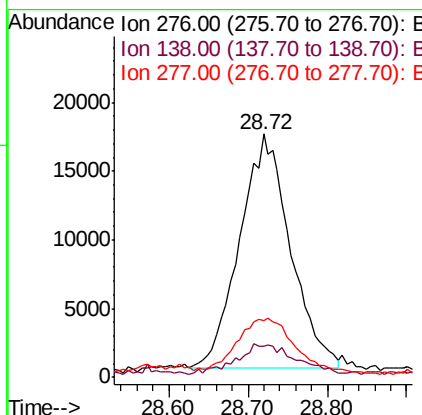
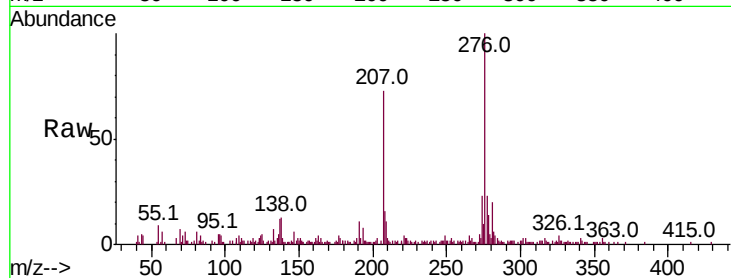


#91

Indeno(1,2,3-cd)pyrene  
Concen: 1.947 ng/ul  
RT: 28.72 min Scan# 4362  
Delta R.T. 0.01 min  
Lab File: BG042114.D  
Acq: 9 Aug 2019 22:44

Instrument :  
BNA\_G  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 12.6  | 12.0  | 18.0  |
| 277     | 23.4  | 19.2  | 28.8  |



#93

Benzo(g,h,i)perylene  
Concen: 2.313 ng/ul  
RT: 29.88 min Scan# 4560  
Delta R.T. -0.00 min  
Lab File: BG042114.D  
Acq: 9 Aug 2019 22:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 13.1  | 12.6  | 18.8  |
| 277     | 24.0  | 19.2  | 28.8  |

