

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081319\  
 Data File : BG042196.D  
 Acq On : 14 Aug 2019 5:29  
 Operator : HP/JU  
 Sample : K4304-02  
 Misc :  
 ALS Vial : 58 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CB5N3

Quant Time: Aug 14 08:33:45 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080319MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Aug 14 08:30:54 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.02  | 152  | 87893    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.85 | 136  | 364551   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.69 | 164  | 252294   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.44 | 188  | 522200   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.72 | 240  | 506620   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 24.99 | 264  | 599472   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.41  | 96  | 6557   | 3.26  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.18  | 99  | 171348 | 24.84 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.34  | 67  | 86021  | 22.30 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.55  | 132 | 156278 | 26.50 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.73  | 113 | 133182 | 23.00 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.19  | 128 | 79332  | 28.91 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.92  | 143 | 98967  | 31.06 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.47 | 165 | 179418 | 27.89 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.98 | 131 | 204014 | 28.58 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.08 | 166 | 535749 | 27.38 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.38 | 160 | 635925 | 28.45 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.88 | 143 | 70737  | 21.53 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.68 | 176 | 478845 | 27.51 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.80 | 200 | 71250  | 21.27 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.54 | 188 | 695388 | 27.76 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.82 | 212 | 784405 | 27.75 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 24.76 | 264 | 890299 | 28.43 | ng/ul | 0.00 |

## Target Compounds

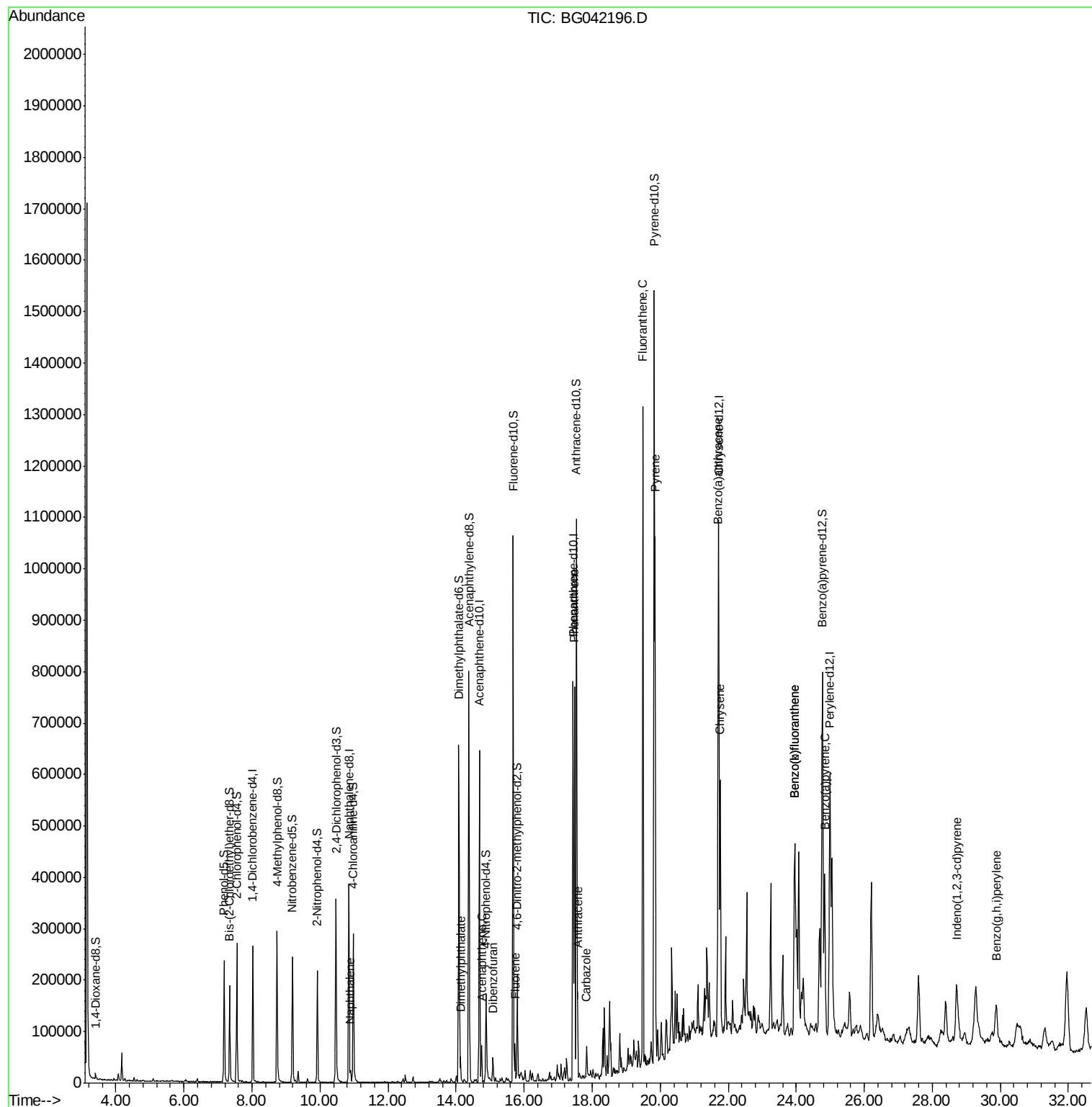
|                            |       |     |        |              | Ovalue |
|----------------------------|-------|-----|--------|--------------|--------|
| 28) Naphthalene            | 10.90 | 128 | 22927  | 1.230 ng/ul  | 97     |
| 44) Dimethylphthalate      | 14.13 | 163 | 33276  | 1.713 ng/ul  | 96     |
| 49) Acenaphthene           | 14.75 | 153 | 33345  | 2.114 ng/ul  | 96     |
| 53) Dibenzofuran           | 15.09 | 168 | 28569  | 1.214 ng/ul  | 95     |
| 58) Fluorene               | 15.73 | 166 | 33428  | 1.763 ng/ul  | 96     |
| 69) Phenanthrene           | 17.48 | 178 | 526922 | 18.432 ng/ul | 100    |
| 71) Anthracene             | 17.57 | 178 | 110570 | 3.813 ng/ul  | 96     |
| 74) Carbazole              | 17.84 | 167 | 43457  | 1.809 ng/ul  | 99     |
| 76) Fluoranthene           | 19.49 | 202 | 840239 | 25.438 ng/ul | 98     |
| 79) Pyrene                 | 19.86 | 202 | 695698 | 20.415 ng/ul | 97     |
| 82) Benzo(a)anthracene     | 21.70 | 228 | 418657 | 11.919 ng/ul | 99     |
| 84) Chrysene               | 21.77 | 228 | 401373 | 12.243 ng/ul | 98     |
| 87) Benzo(b)fluoranthene   | 23.95 | 252 | 553236 | 14.706 ng/ul | 97     |
| 88) Benzo(k)fluoranthene   | 23.95 | 252 | 553236 | 15.295 ng/ul | 97     |
| 90) Benzo(a)pyrene         | 24.83 | 252 | 366330 | 10.219 ng/ul | 97     |
| 91) Indeno(1,2,3-cd)pyrene | 28.71 | 276 | 221443 | 5.296 ng/ul  | 94     |
| 93) Benzo(g,h,i)perylene   | 29.87 | 276 | 187982 | 5.385 ng/ul  | 96     |

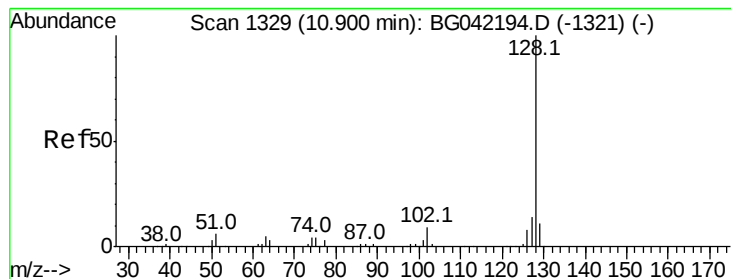
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 58 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
CB5N3

Quant Time: Aug 14 08:33:45 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080319MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Aug 14 08:30:54 2019  
Response via : Initial Calibration





#28

Naphthalene

Concen: 1.230 ng/ul

RT: 10.90 min Scan# 1329

Delta R.T. -0.00 min

Lab File: BG042196.D

Acq: 14 Aug 2019 5:29

Instrument :

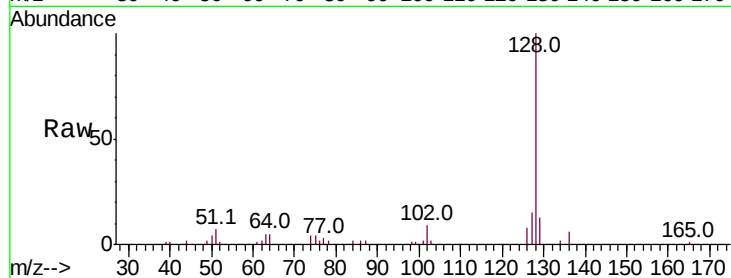
BNA\_G

ClientSampleId :

CB5N3

Tot Ion:128 Resp: 22927

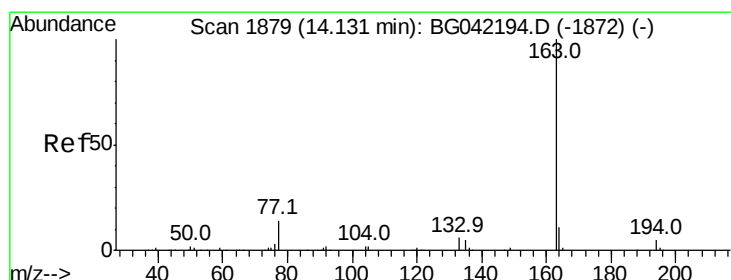
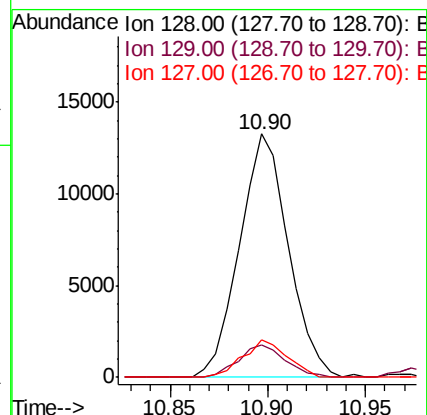
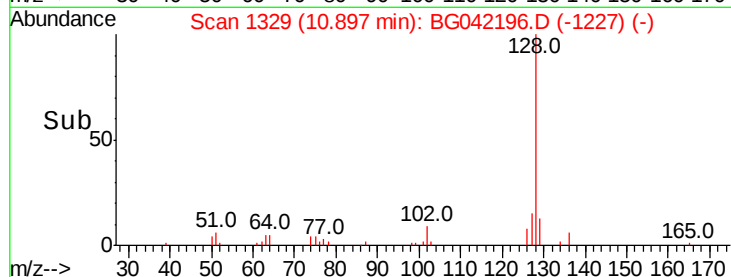
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 129 | 13.4  | 9.5   | 14.3  |
| 127 | 15.5  | 11.4  | 17.0  |



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#44

Dimethylphthalate

Concen: 1.713 ng/ul

RT: 14.13 min Scan# 1879

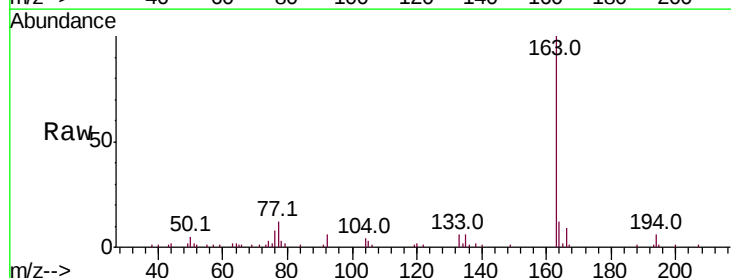
Delta R.T. -0.00 min

Lab File: BG042196.D

Acq: 14 Aug 2019 5:29

Tgt Ion:163 Resp: 33276

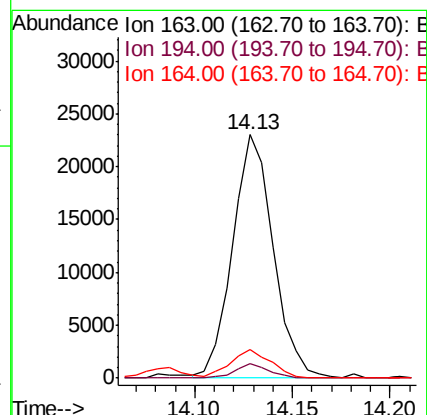
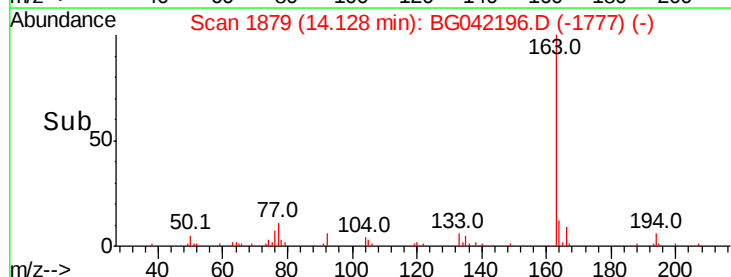
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 163 | 100   |       |       |
| 194 | 5.9   | 4.2   | 6.2   |
| 164 | 11.7  | 7.8   | 11.8  |

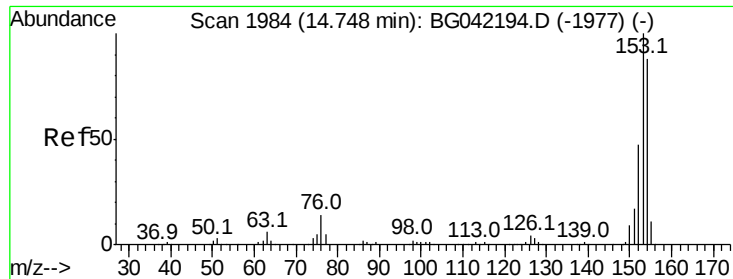


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#49

Acenaphthene

Concen: 2.114 ng/ul

RT: 14.75 min Scan# 1984

Delta R.T. -0.00 min

Lab File: BG042196.D

Acq: 14 Aug 2019 5:29

Instrument :

BNA\_G

ClientSampled :

CB5N3

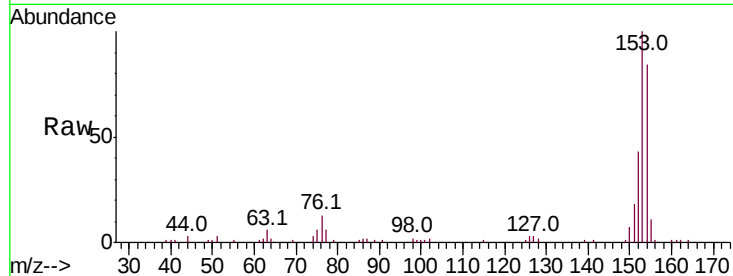
Tot Ion:153 Resp: 33345

Ion Ratio Lower Upper

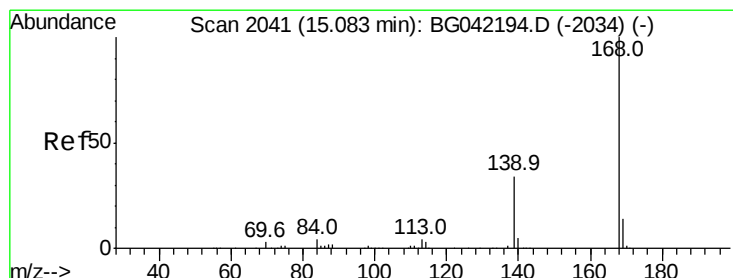
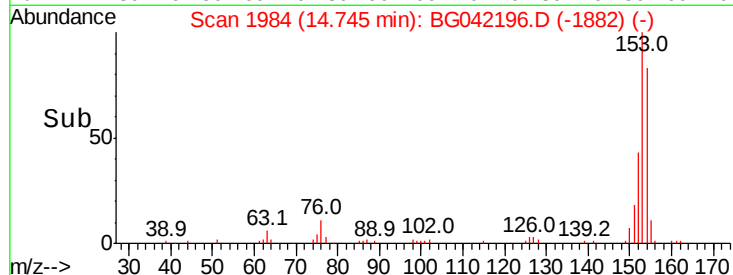
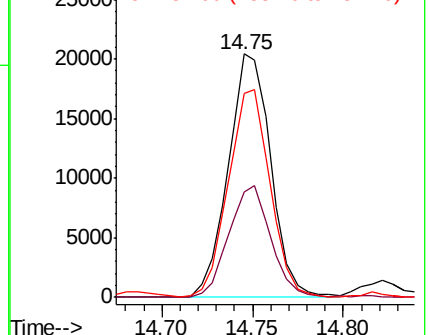
153 100

152 43.2 37.8 56.8

154 83.6 69.4 104.2



Abundance Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E  
Ion 154.00 (153.70 to 154.70): E



#53

Dibenzofuran

Concen: 1.214 ng/ul

RT: 15.09 min Scan# 2042

Delta R.T. 0.00 min

Lab File: BG042196.D

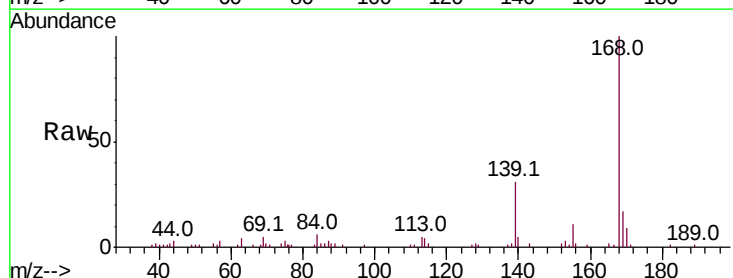
Acq: 14 Aug 2019 5:29

Tgt Ion:168 Resp: 28569

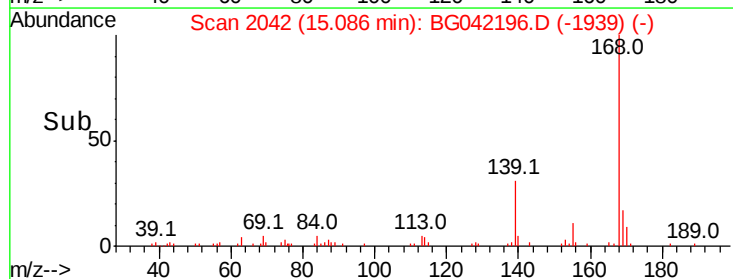
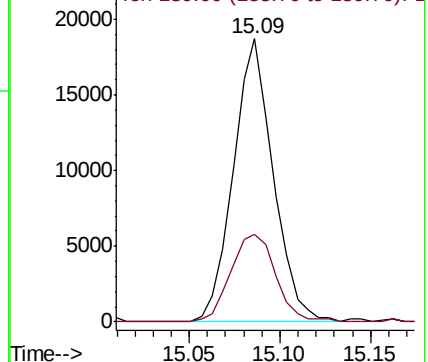
Ion Ratio Lower Upper

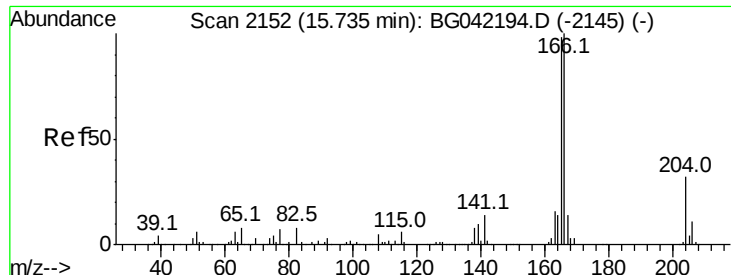
168 100

139 31.1 27.3 40.9



Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 1.763 ng/ul

RT: 15.73 min Scan# 2152

Delta R.T. -0.00 min

Lab File: BG042196.D

Acq: 14 Aug 2019 5:29

Instrument :

BNA\_G

ClientSampleId :

CB5N3

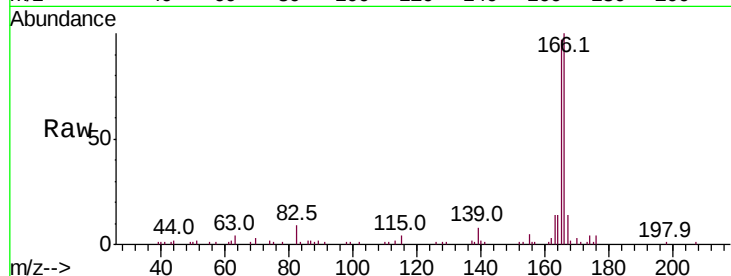
Tot Ion:166 Resp: 33428

Ion Ratio Lower Upper

166 100

165 97.3 81.1 121.7

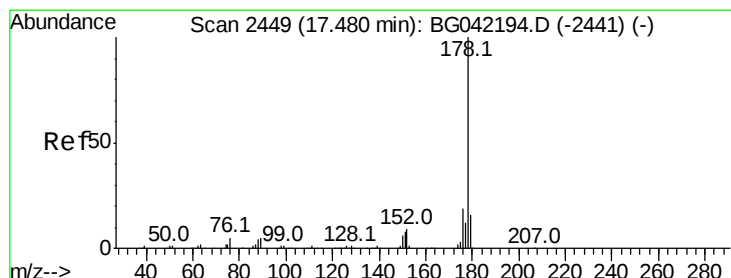
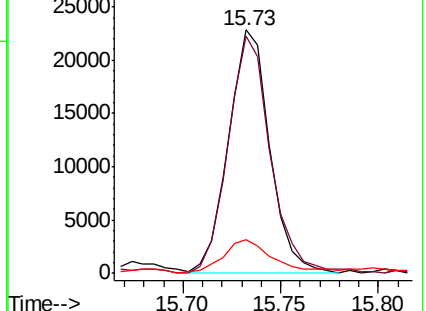
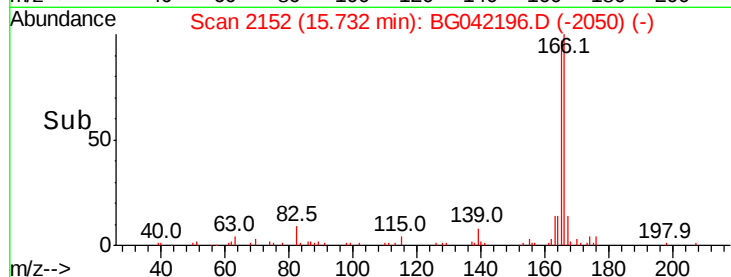
167 14.1 11.0 16.4



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#69

Phenanthrene

Concen: 18.432 ng/ul

RT: 17.48 min Scan# 2449

Delta R.T. -0.00 min

Lab File: BG042196.D

Acq: 14 Aug 2019 5:29

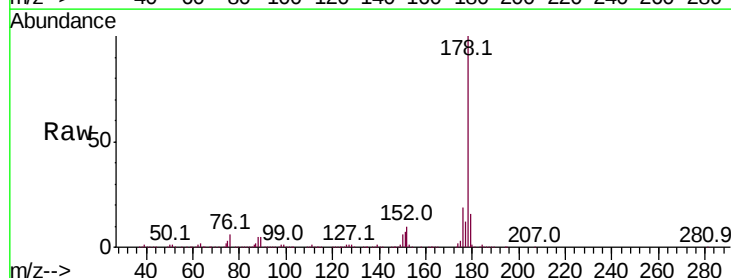
Tgt Ion:178 Resp: 526922

Ion Ratio Lower Upper

178 100

179 16.0 12.8 19.2

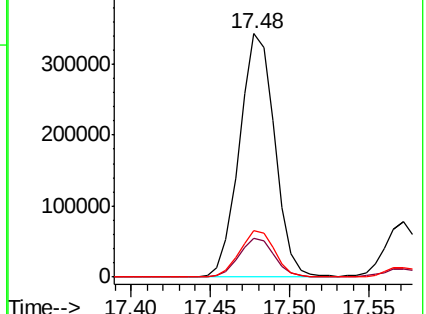
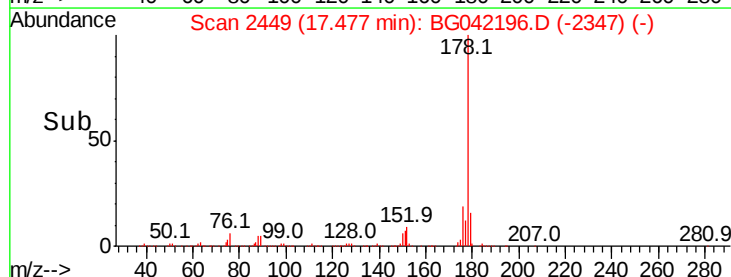
176 19.0 15.4 23.2

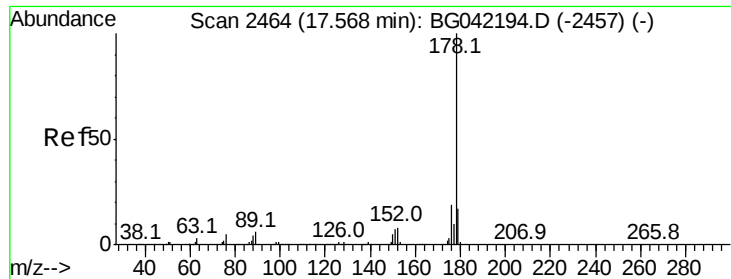


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

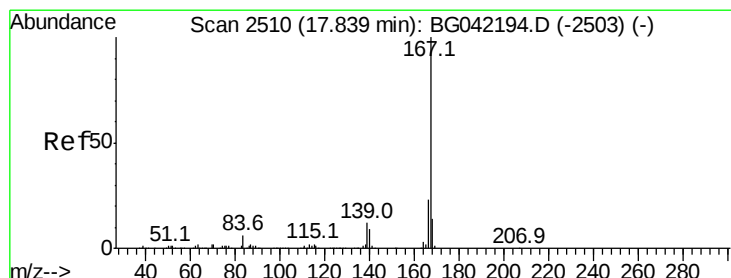
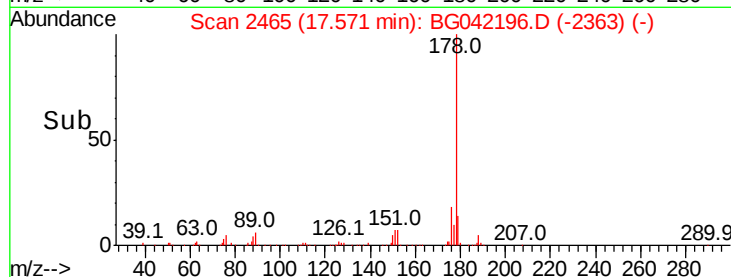
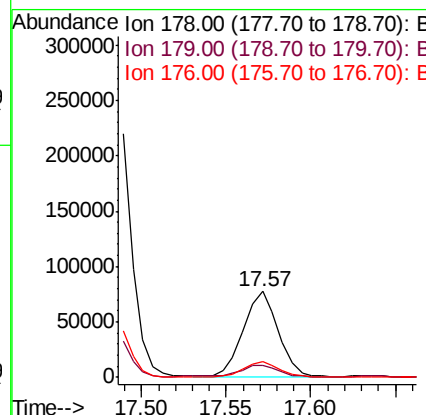
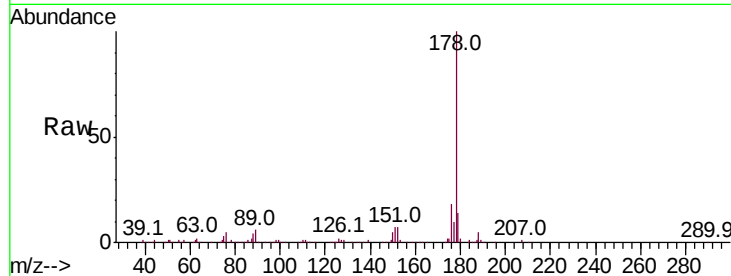




#71  
 Anthracene  
 Concen: 3.813 ng/ul  
 RT: 17.57 min Scan# 2465  
 Delta R.T. -0.00 min  
 Lab File: BG042196.D  
 Acq: 14 Aug 2019 5:29

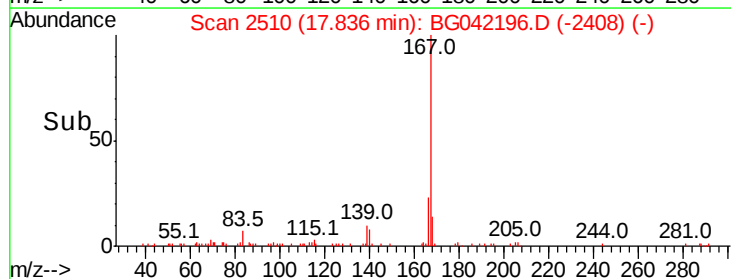
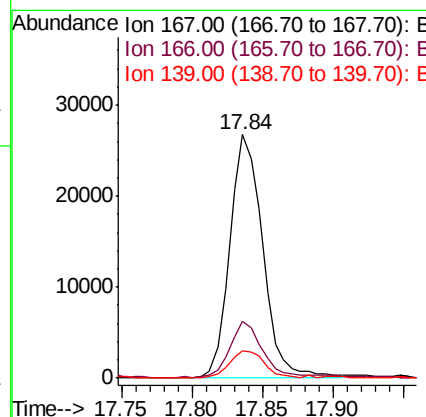
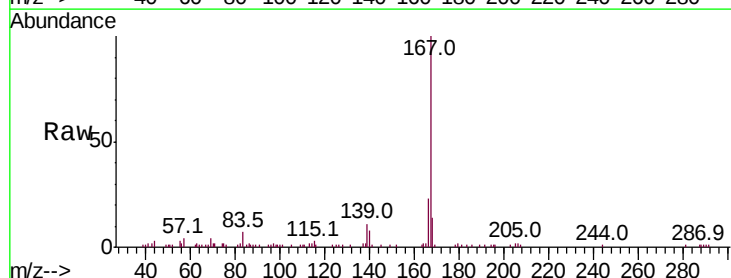
Instrument :  
 BNA\_G  
 ClientSampled :  
 CB5N3

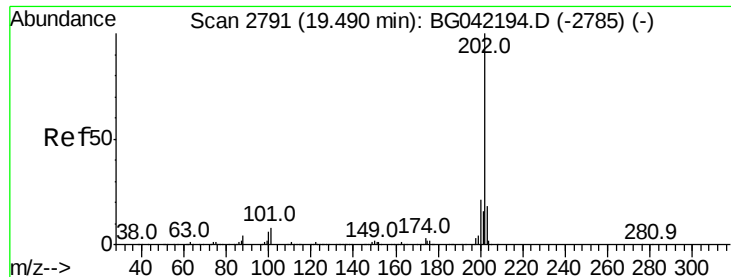
Tot Ion:178 Resp: 110570  
 Ion Ratio Lower Upper  
 178 100  
 179 14.4 13.4 20.0  
 176 18.1 15.4 23.2



#74  
 Carbazole  
 Concen: 1.809 ng/ul  
 RT: 17.84 min Scan# 2510  
 Delta R.T. -0.00 min  
 Lab File: BG042196.D  
 Acq: 14 Aug 2019 5:29

Tgt Ion:167 Resp: 43457  
 Ion Ratio Lower Upper  
 167 100  
 166 23.2 18.2 27.4  
 139 11.3 9.6 14.4





#76

Fluoranthene

Concen: 25.438 ng/ul

RT: 19.49 min Scan# 2792

Delta R.T. 0.00 min

Lab File: BG042196.D

Acq: 14 Aug 2019 5:29

Instrument :

BNA\_G

ClientSampleId :

CB5N3

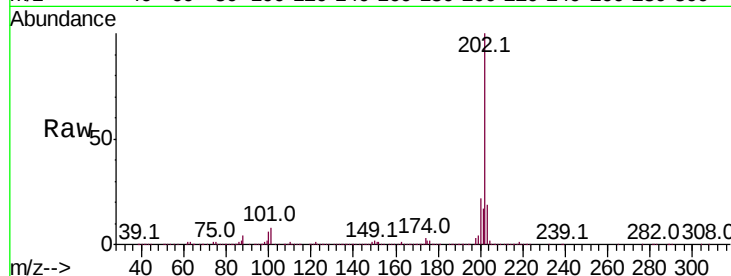
Tot Ion:202 Resp: 840239

Ion Ratio Lower Upper

202 100

101 7.8 6.7 10.1

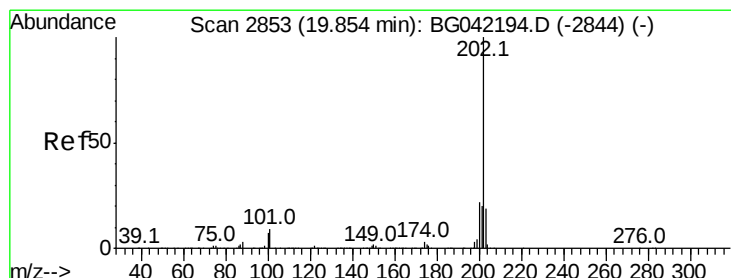
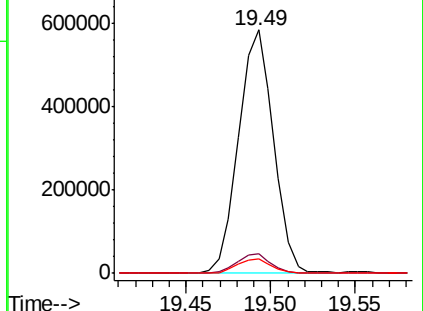
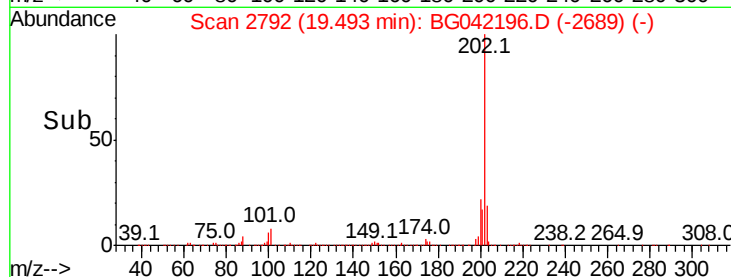
100 6.0 5.3 7.9



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

Pyrene

Concen: 20.415 ng/ul

RT: 19.86 min Scan# 2854

Delta R.T. 0.00 min

Lab File: BG042196.D

Acq: 14 Aug 2019 5:29

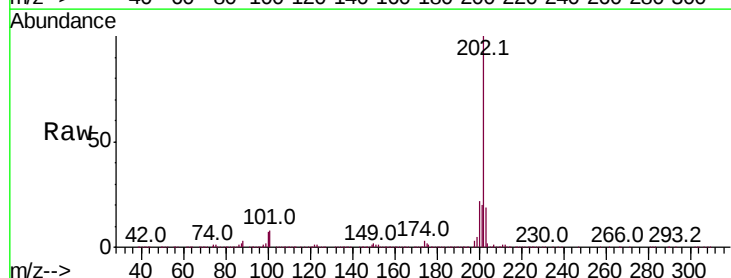
Tgt Ion:202 Resp: 695698

Ion Ratio Lower Upper

202 100

101 8.4 7.6 11.4

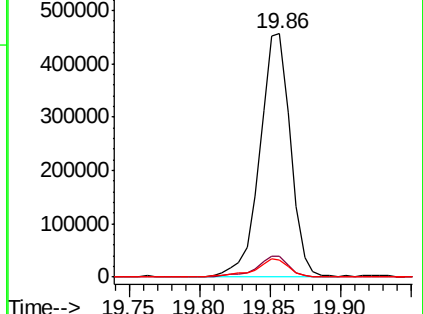
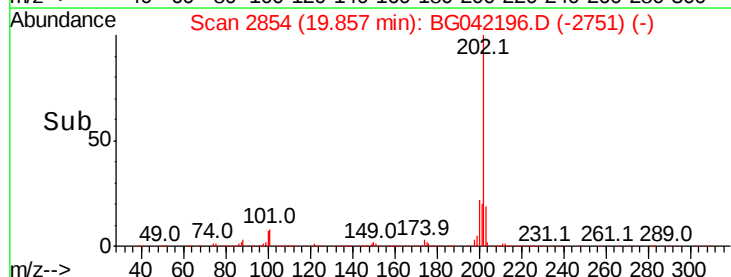
100 7.1 6.5 9.7

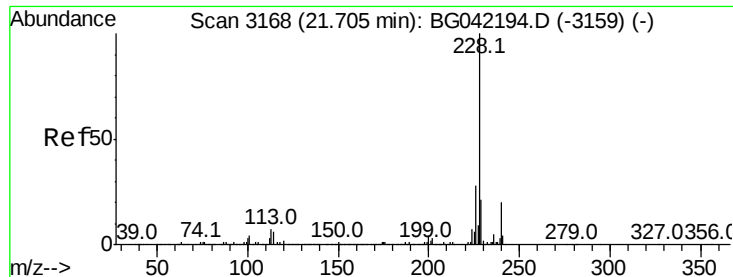


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

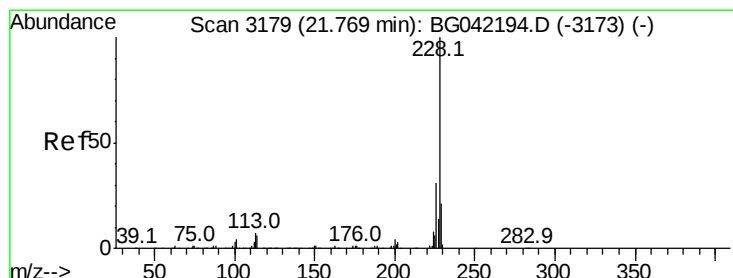
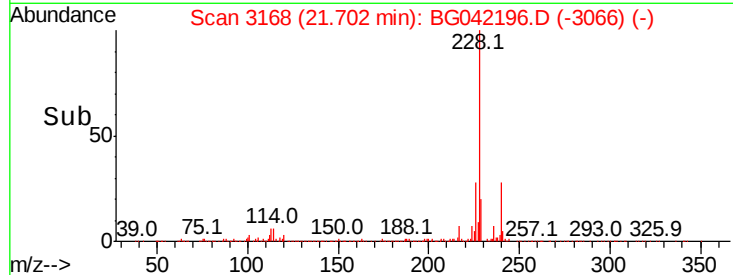
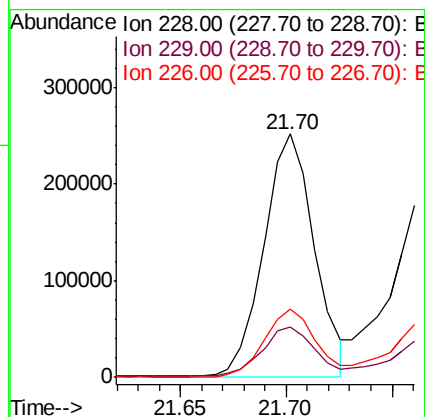
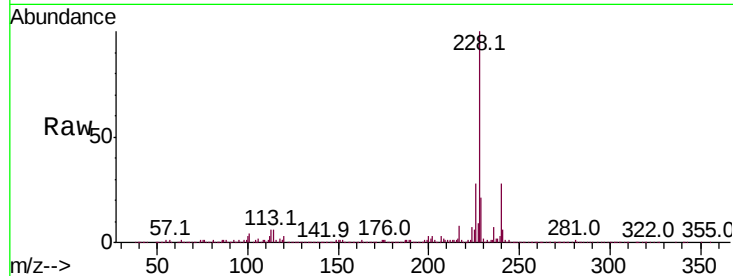




#82  
Benzo(a)anthracene  
Concen: 11.919 ng/ul  
RT: 21.70 min Scan# 3168  
Delta R.T. -0.00 min  
Lab File: BG042196.D  
Acq: 14 Aug 2019 5:29

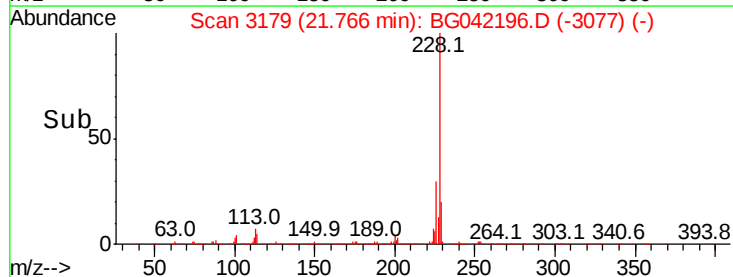
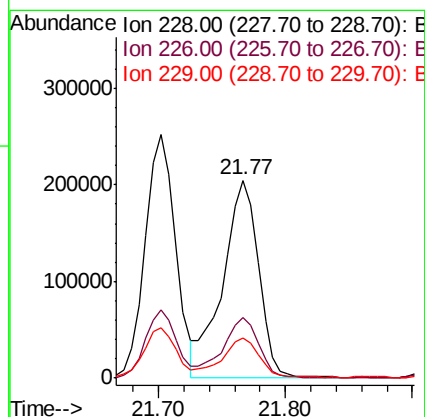
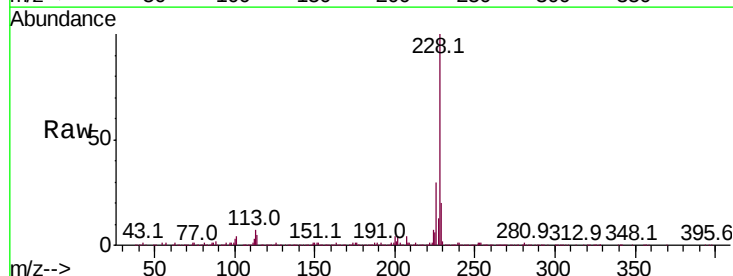
Instrument :  
BNA\_G  
ClientSampleId :  
CB5N3

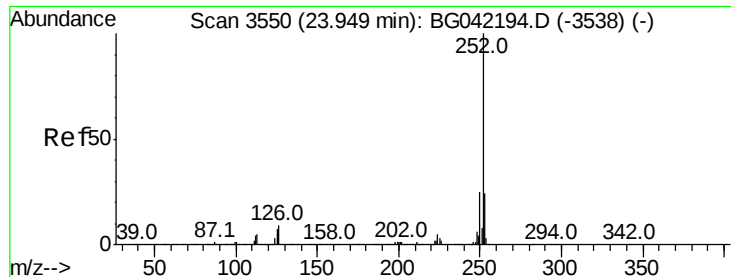
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.7  | 17.0  | 25.6  |
| 226     | 28.3  | 23.3  | 34.9  |



#84  
Chrysene  
Concen: 12.243 ng/ul  
RT: 21.77 min Scan# 3179  
Delta R.T. -0.00 min  
Lab File: BG042196.D  
Acq: 14 Aug 2019 5:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.5  | 25.7  | 38.5  |
| 229     | 20.4  | 16.6  | 24.8  |

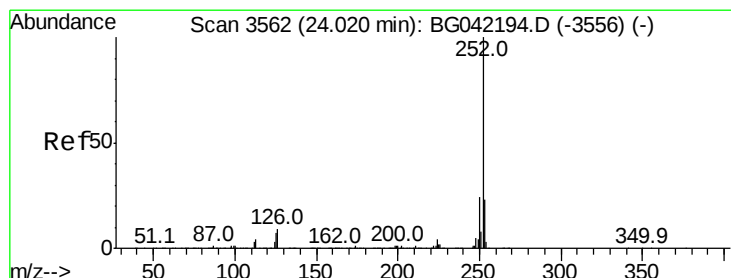
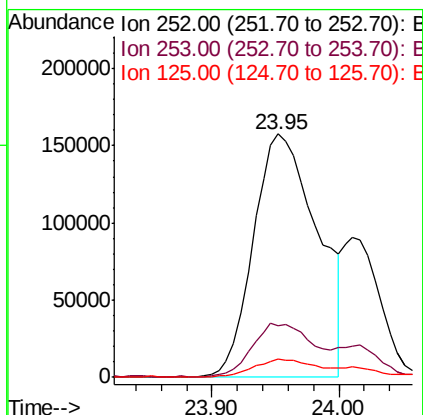
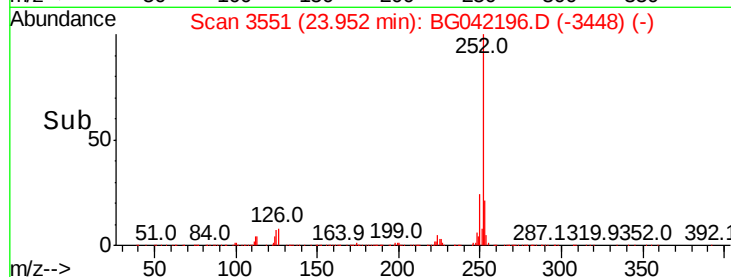
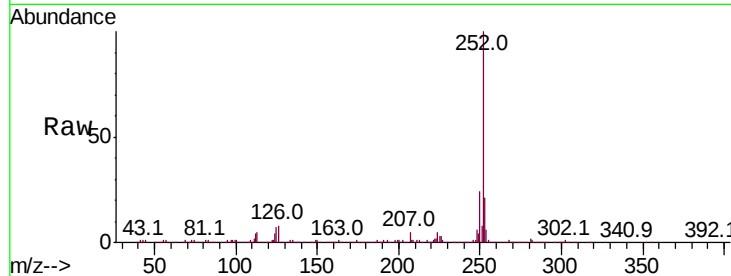




#87  
Benzo(b)fluoranthene  
Concen: 14.706 ng/ul  
RT: 23.95 min Scan# 3551  
Delta R.T. 0.00 min  
Lab File: BG042196.D  
Acq: 14 Aug 2019 5:29

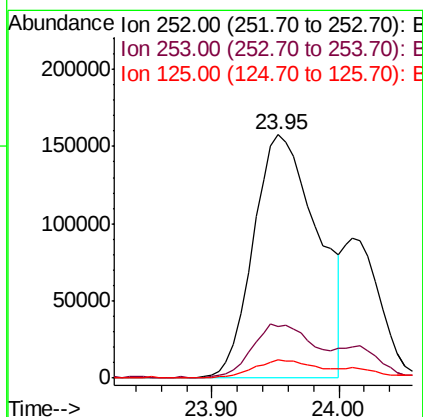
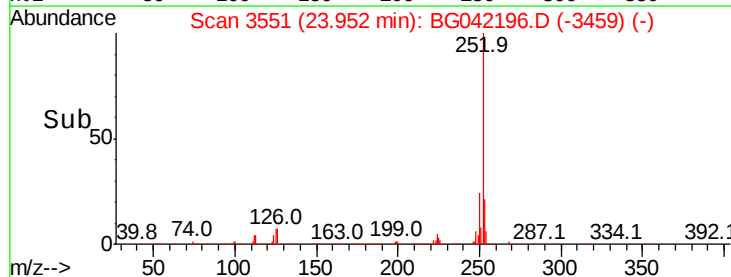
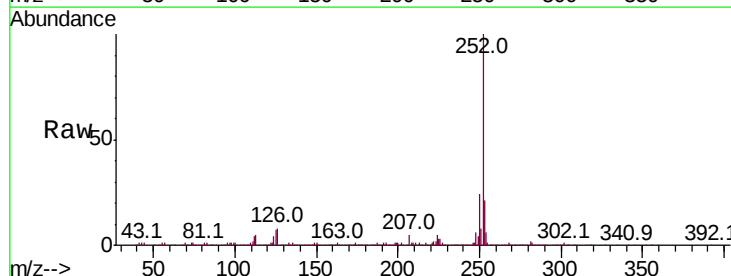
Instrument :  
BNA\_G  
ClientSampleId :  
CB5N3

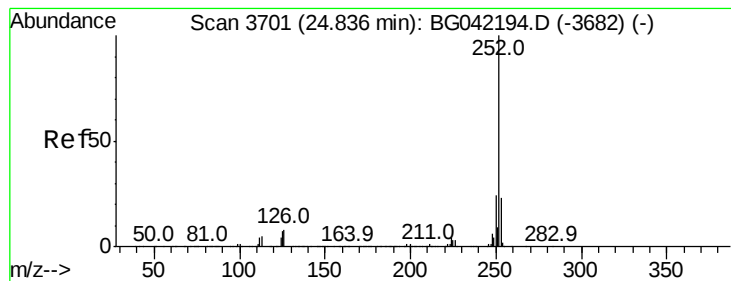
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.3  | 18.4  | 27.6  |
| 125     | 7.4   | 5.8   | 8.8   |



#88  
Benzo(k)fluoranthene  
Concen: 15.295 ng/ul  
RT: 23.95 min Scan# 3551  
Delta R.T. -0.06 min  
Lab File: BG042196.D  
Acq: 14 Aug 2019 5:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.3  | 18.3  | 27.5  |
| 125     | 7.4   | 5.5   | 8.3   |





#90

Benzo(a)pyrene

Concen: 10.219 ng/ul

RT: 24.83 min Scan# 3701

Delta R.T. -0.00 min

Lab File: BG042196.D

Acq: 14 Aug 2019 5:29

Instrument :

BNA\_G

ClientSampleId :

CB5N3

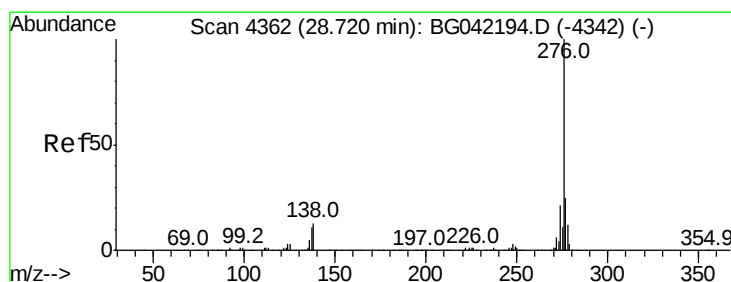
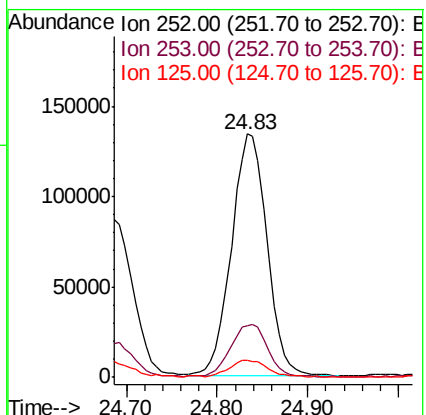
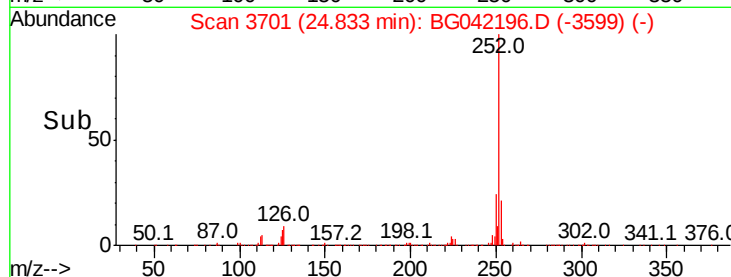
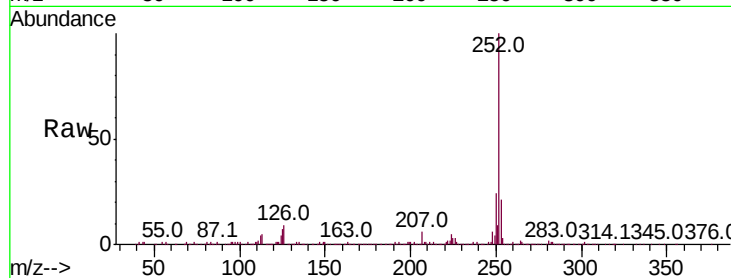
Tot Ion:252 Resp: 366330

Ion Ratio Lower Upper

252 100

253 21.3 18.3 27.5

125 7.2 6.5 9.7



#91

Indeno(1,2,3-cd)pyrene

Concen: 5.296 ng/ul

RT: 28.71 min Scan# 4361

Delta R.T. -0.00 min

Lab File: BG042196.D

Acq: 14 Aug 2019 5:29

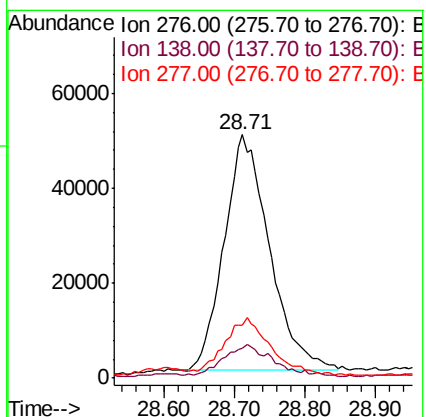
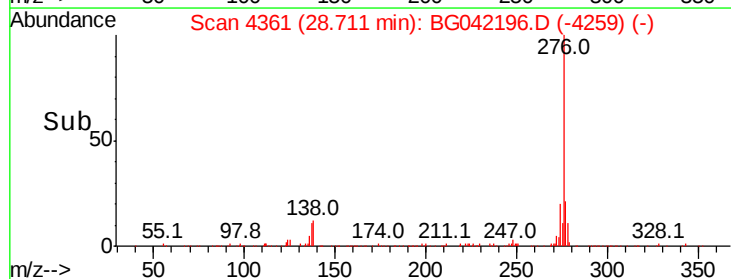
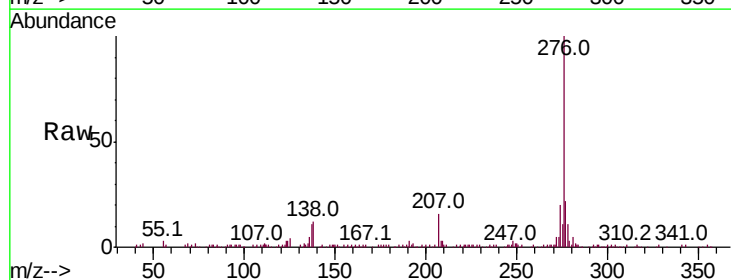
Tgt Ion:276 Resp: 221443

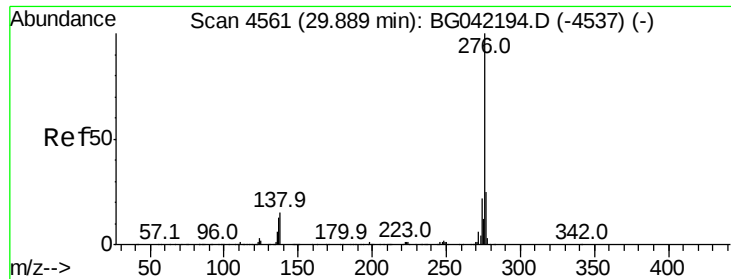
Ion Ratio Lower Upper

276 100

138 12.1 12.0 18.0

277 21.7 19.2 28.8





#93

Benzo(a,h,i)perylene

Concen: 5.385 ng/ul

RT: 29.87 min Scan# 4559

Delta R.T. -0.00 min

Lab File: BG042196.D

Acq: 14 Aug 2019 5:29

Instrument :

BNA\_G

ClientSampleId :

CB5N3

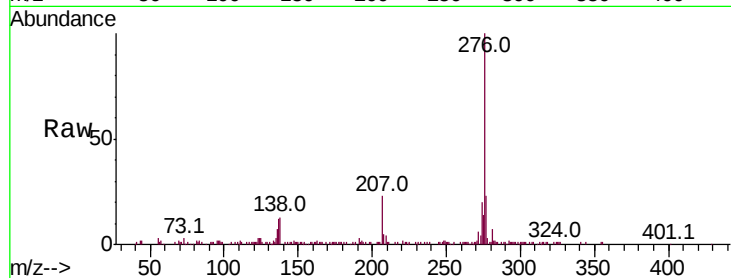
Tot Ion:276 Resp: 187982

Ion Ratio Lower Upper

276 100

138 13.0 12.6 18.8

277 22.9 19.2 28.8



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

