

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG081319\  
 Data File : BG042201.D  
 Acq On : 14 Aug 2019 8:41  
 Operator : HP/JU  
 Sample : K4304-07  
 Misc :  
 ALS Vial : 63 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CB5N8

Quant Time: Aug 14 10:46:36 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080319MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Aug 14 10:42:59 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.02  | 152  | 81915    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.85 | 136  | 338283   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.69 | 164  | 233622   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.44 | 188  | 473307   | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.72 | 240  | 466645   | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 24.99 | 264  | 550928   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.41  | 96  | 8524    | 4.55  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.18  | 99  | 218737  | 34.03 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.34  | 67  | 110427  | 30.71 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.55  | 132 | 199006  | 36.21 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.74  | 113 | 181470  | 33.62 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.19  | 128 | 99076   | 38.91 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.92  | 143 | 123439  | 41.75 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.47 | 165 | 228629  | 38.30 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.98 | 131 | 262254  | 39.60 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 14.09 | 166 | 655062  | 36.15 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.38 | 160 | 771651  | 37.28 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.88 | 143 | 92607   | 30.44 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.68 | 176 | 578425  | 35.88 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.80 | 200 | 90399   | 29.77 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.54 | 188 | 833293  | 36.70 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.83 | 212 | 932391  | 35.81 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 24.78 | 264 | 1102738 | 38.32 | ng/ul | 0.00 |

## Target Compounds

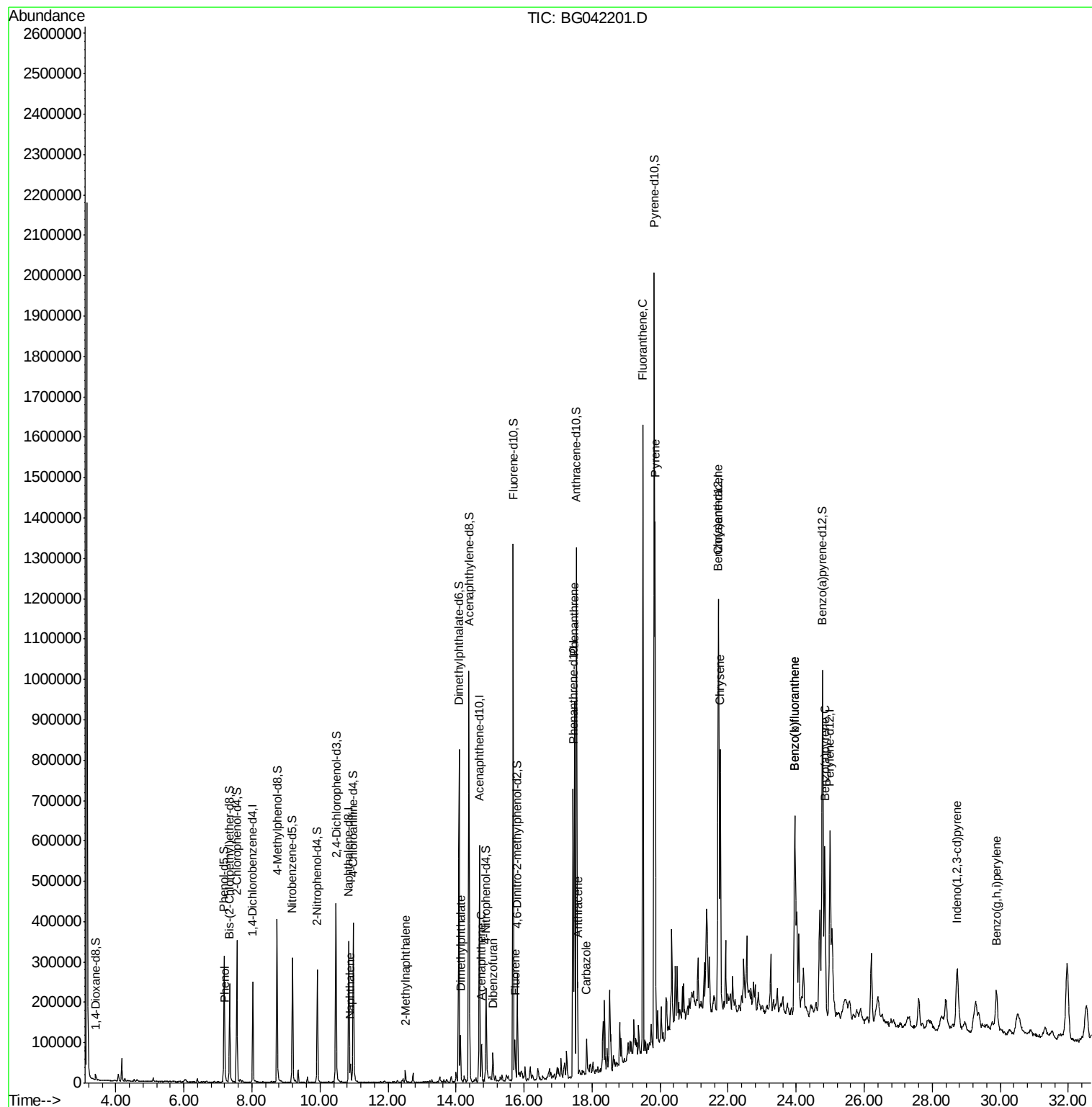
|                            |       |     |         |              | Ovalue |
|----------------------------|-------|-----|---------|--------------|--------|
| 6) Phenol                  | 7.21  | 94  | 9905    | 1.493 ng/ul# | 78     |
| 28) Naphthalene            | 10.90 | 128 | 40638   | 2.350 ng/ul  | 98     |
| 34) 2-Methylnaphthalene    | 12.51 | 142 | 16015   | 1.165 ng/ul  | 91     |
| 44) Dimethylphthalate      | 14.13 | 163 | 83016   | 4.614 ng/ul  | 97     |
| 49) Acenaphthene           | 14.75 | 153 | 41306   | 2.828 ng/ul  | 99     |
| 53) Dibenzofuran           | 15.09 | 168 | 40380   | 1.852 ng/ul  | 100    |
| 58) Fluorene               | 15.73 | 166 | 46686   | 2.659 ng/ul  | 98     |
| 69) Phenanthrene           | 17.48 | 178 | 674263  | 26.022 ng/ul | 99     |
| 71) Anthracene             | 17.57 | 178 | 157484  | 5.992 ng/ul  | 97     |
| 74) Carbazole              | 17.84 | 167 | 59914   | 2.752 ng/ul  | 99     |
| 76) Fluoranthene           | 19.49 | 202 | 1021639 | 34.125 ng/ul | 99     |
| 79) Pyrene                 | 19.86 | 202 | 866342  | 27.600 ng/ul | 97     |
| 82) Benzo(a)anthracene     | 21.70 | 228 | 530922  | 16.409 ng/ul | 100    |
| 84) Chrysene               | 21.77 | 228 | 487114  | 16.131 ng/ul | 98     |
| 87) Benzo(b)fluoranthene   | 23.96 | 252 | 669729  | 19.371 ng/ul | 100    |
| 88) Benzo(k)fluoranthene   | 23.96 | 252 | 669729  | 20.147 ng/ul | 99     |
| 90) Benzo(a)pyrene         | 24.85 | 252 | 478571  | 14.526 ng/ul | 98     |
| 91) Indeno(1,2,3-cd)pyrene | 28.73 | 276 | 293758  | 7.645 ng/ul  | 100    |
| 93) Benzo(g,h,i)perylene   | 29.89 | 276 | 238383  | 7.430 ng/ul  | 97     |

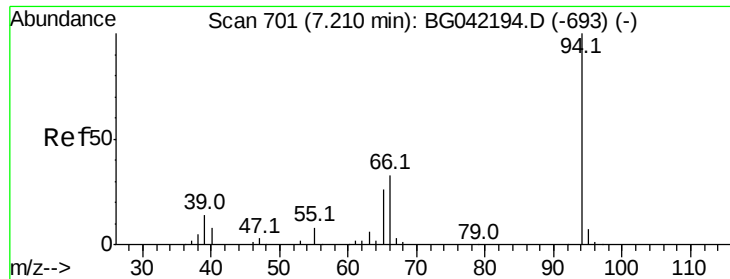
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc :  
ALS Vial : 63 Sample Multiplier: 1

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BNA\_G  
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CB5N8

Quant Time: Aug 14 10:46:36 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG080319MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Aug 14 10:42:59 2019  
Response via : Initial Calibration





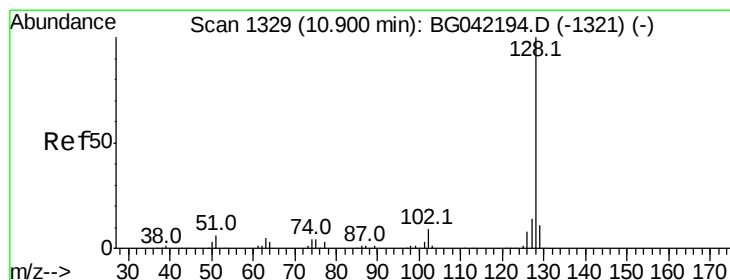
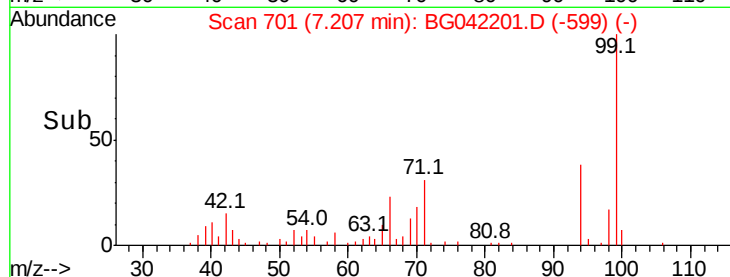
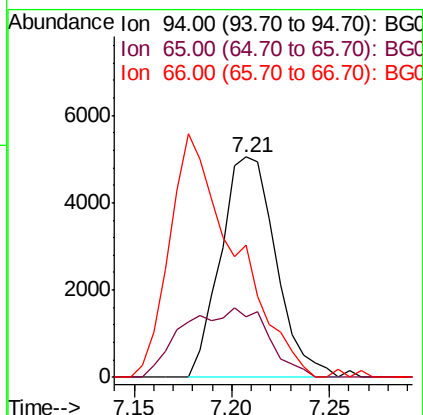
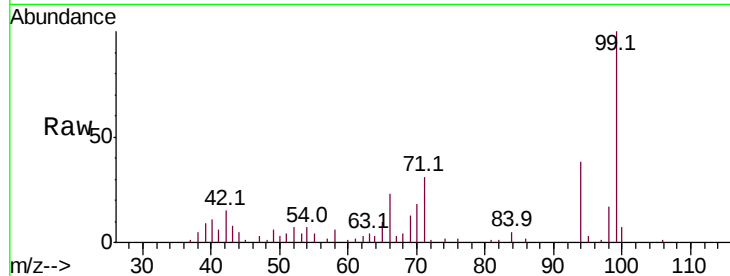
#6

Phenol

Concen: 1.493 ng/ul  
 RT: 7.21 min Scan# 701  
 Delta R.T. -0.00 min  
 Lab File: BG042201.D  
 Acq: 14 Aug 2019 8:41

Instrument :  
 BNA\_G  
 ClientSampleId :  
 CB5N8

Tot Ion: 94 Resp: 9905  
 Ion Ratio Lower Upper  
 94 100  
 65 27.6 25.8 38.6  
 66 60.2 31.8 47.8#

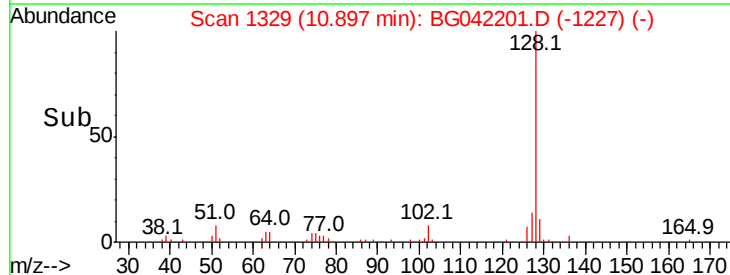
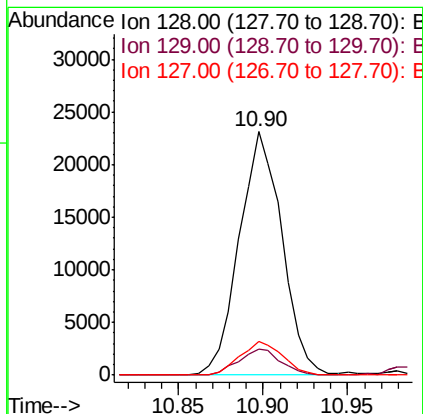
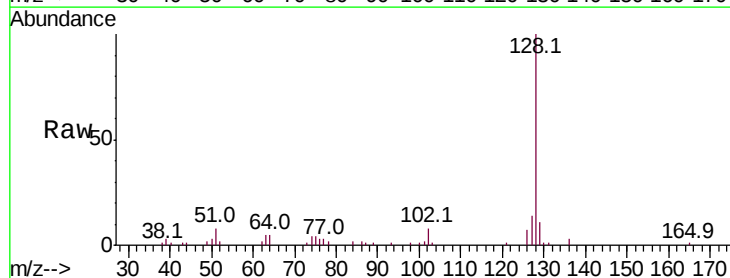


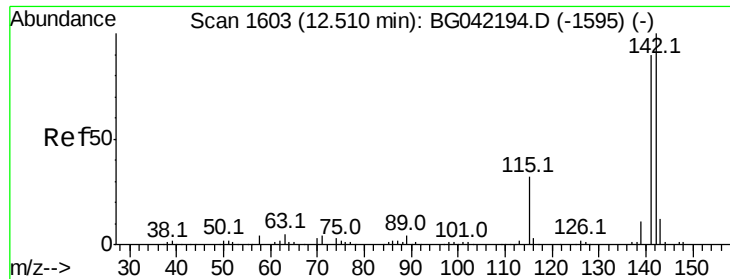
#28

Naphthalene

Concen: 2.350 ng/ul  
 RT: 10.90 min Scan# 1329  
 Delta R.T. -0.00 min  
 Lab File: BG042201.D  
 Acq: 14 Aug 2019 8:41

Tgt Ion: 128 Resp: 40638  
 Ion Ratio Lower Upper  
 128 100  
 129 10.5 9.5 14.3  
 127 14.0 11.4 17.0

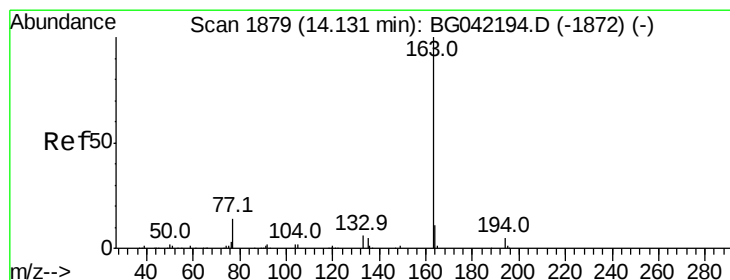
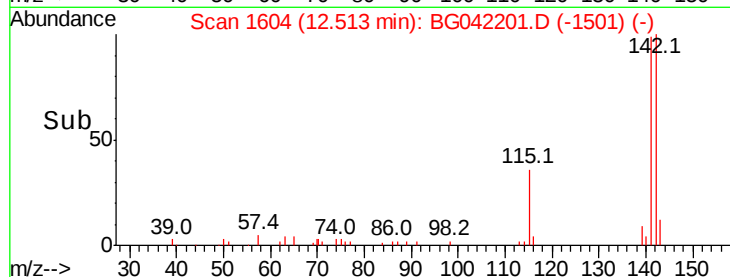
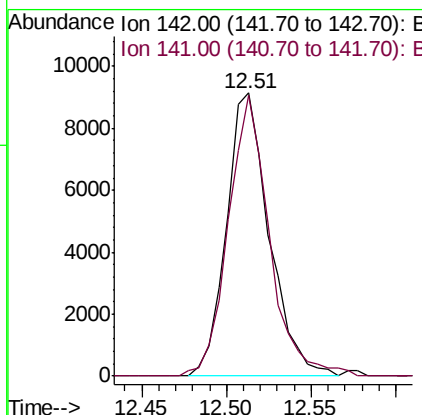
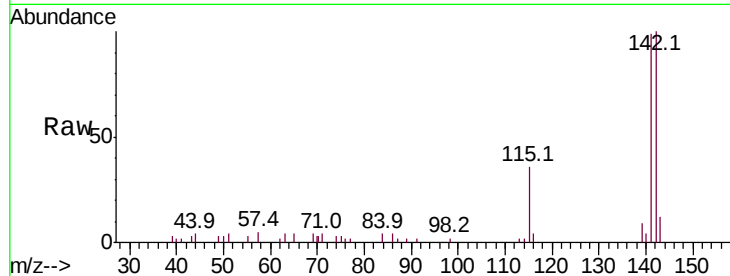




#34  
 2-Methylnaphthalene  
 Concen: 1.165 ng/ul  
 RT: 12.51 min Scan# 1604  
 Delta R.T. 0.00 min  
 Lab File: BG042201.D  
 Acq: 14 Aug 2019 8:41

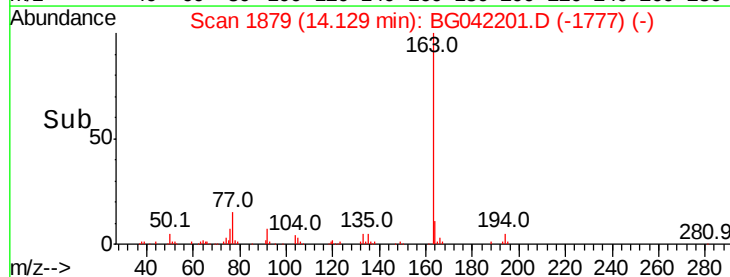
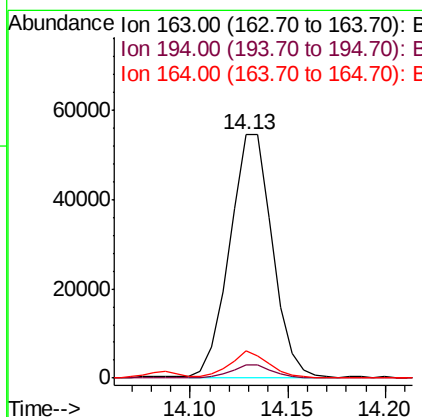
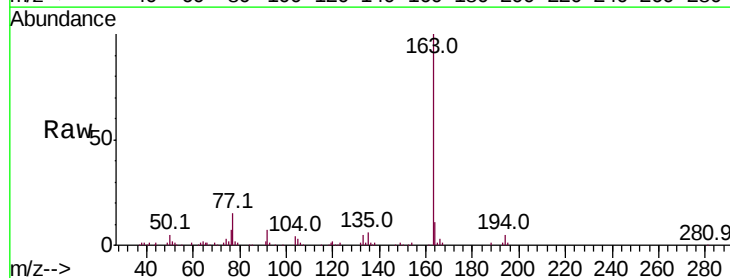
Instrument :  
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 ClientSampleId :  
 CB5N8

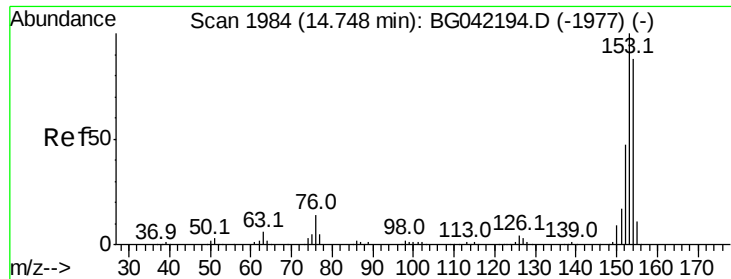
Tot Ion:142 Resp: 16015  
 Ion Ratio Lower Upper  
 142 100  
 141 99.3 72.9 109.3



#44  
 Dimethylphthalate  
 Concen: 4.614 ng/ul  
 RT: 14.13 min Scan# 1879  
 Delta R.T. -0.00 min  
 Lab File: BG042201.D  
 Acq: 14 Aug 2019 8:41

Tgt Ion:163 Resp: 83016  
 Ion Ratio Lower Upper  
 163 100  
 194 5.4 4.2 6.2  
 164 11.2 7.8 11.8





#49

Acenaphthene

Concen: 2.828 ng/ul

RT: 14.75 min Scan# 1985

Delta R.T. 0.00 min

Lab File: BG042201.D

Acq: 14 Aug 2019 8:41

Instrument :

BNA\_G

ClientSampleId :

CB5N8

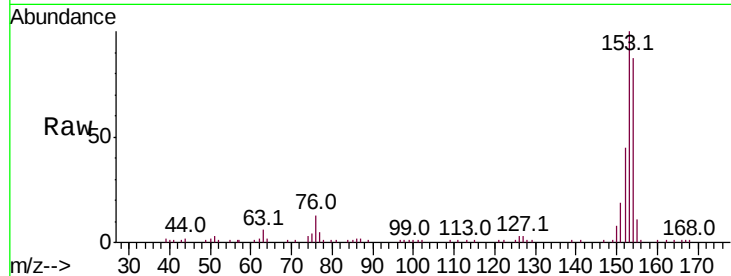
Tot Ion:153 Resp: 41306

Ion Ratio Lower Upper

153 100

152 45.0 37.8 56.8

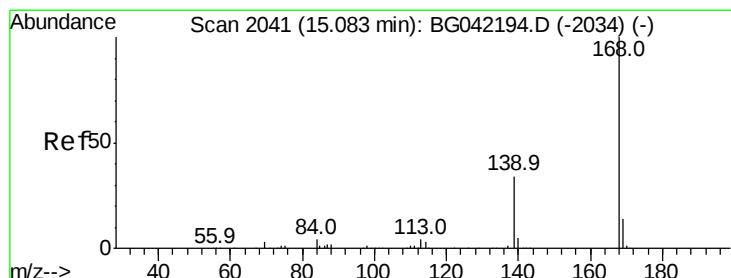
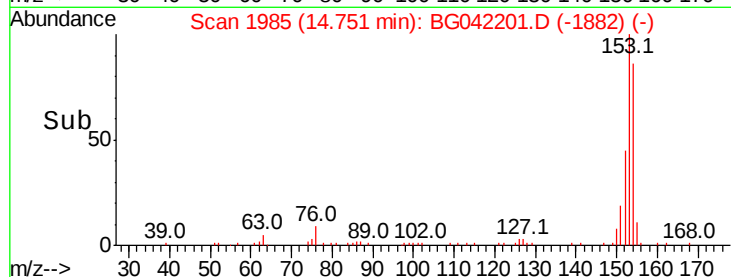
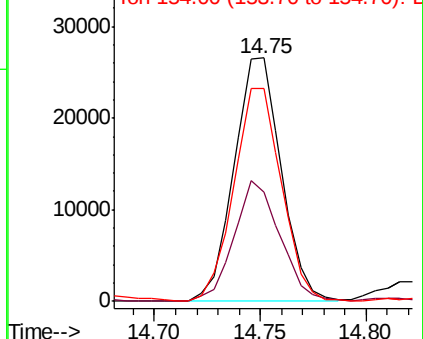
154 87.2 69.4 104.2



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: 1.852 ng/ul

RT: 15.09 min Scan# 2042

Delta R.T. 0.00 min

Lab File: BG042201.D

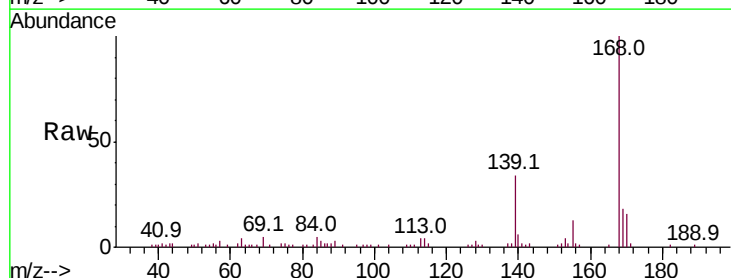
Acq: 14 Aug 2019 8:41

Tgt Ion:168 Resp: 40380

Ion Ratio Lower Upper

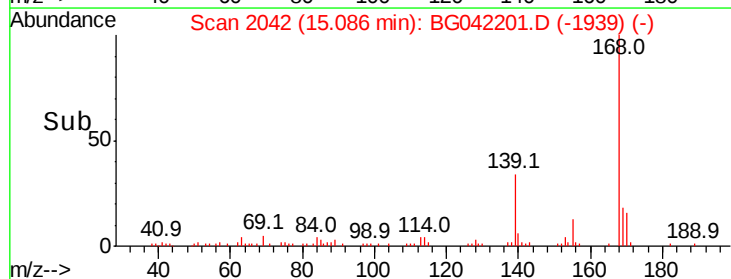
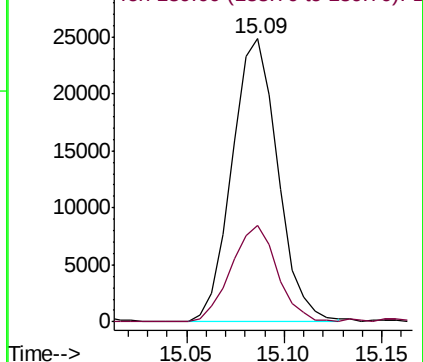
168 100

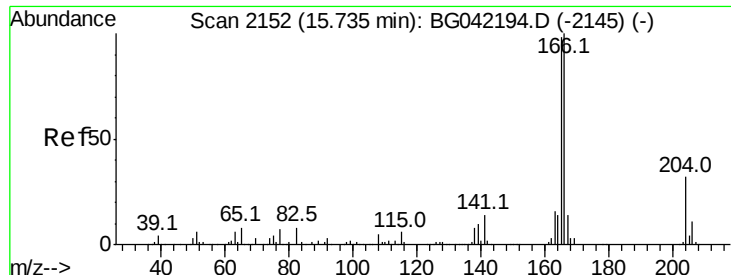
139 34.0 27.3 40.9



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E





#58

Fluorene

Concen: 2.659 ng/ul

RT: 15.73 min Scan# 2152

Delta R.T. -0.00 min

Lab File: BG042201.D

Acq: 14 Aug 2019 8:41

Instrument :

BNA\_G

ClientSampleId :

CB5N8

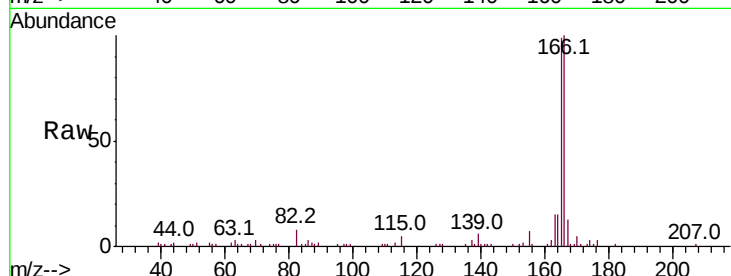
Tot Ion:166 Resp: 46686

Ion Ratio Lower Upper

166 100

165 99.3 81.1 121.7

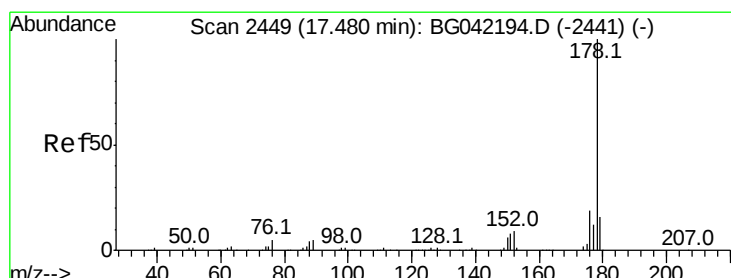
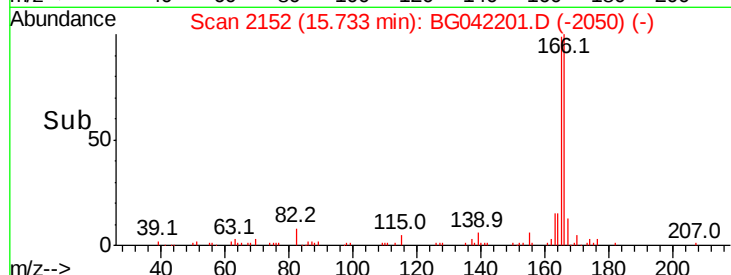
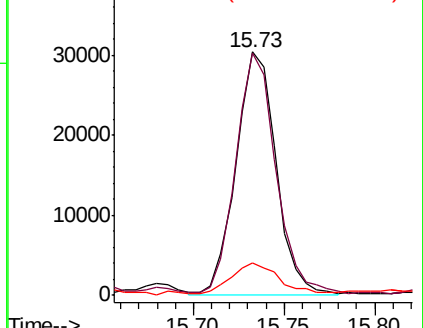
167 13.2 11.0 16.4



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: 26.022 ng/ul

RT: 17.48 min Scan# 2450

Delta R.T. 0.00 min

Lab File: BG042201.D

Acq: 14 Aug 2019 8:41

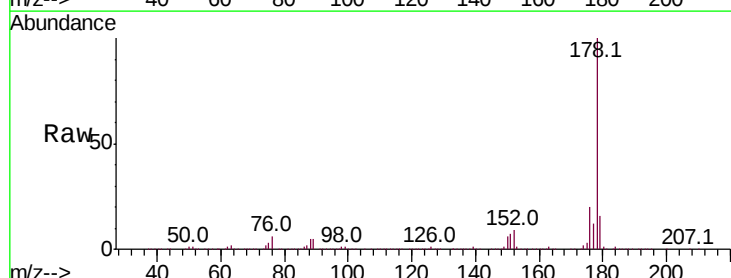
Tgt Ion:178 Resp: 674263

Ion Ratio Lower Upper

178 100

179 16.1 12.8 19.2

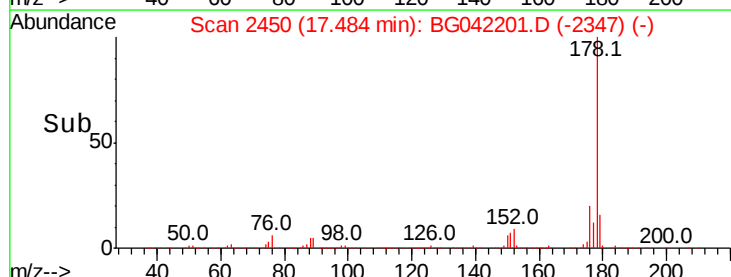
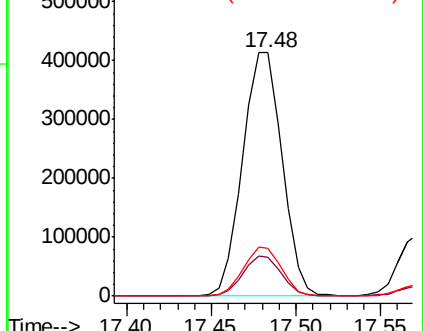
176 19.7 15.4 23.2

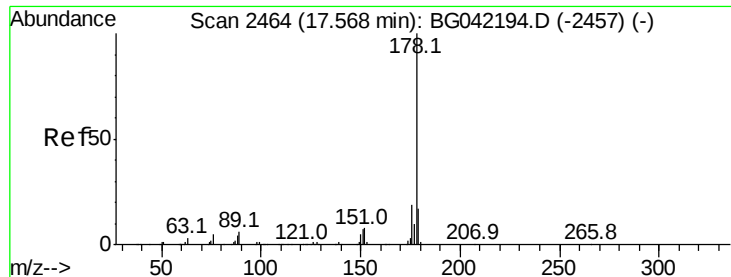


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

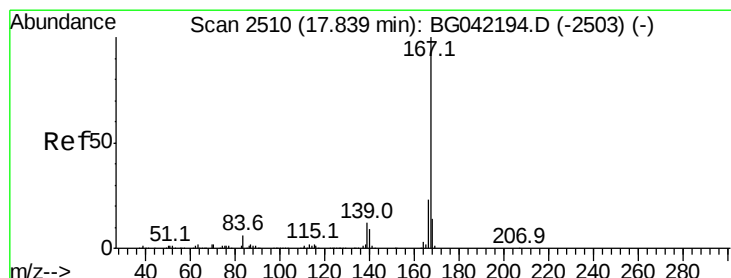
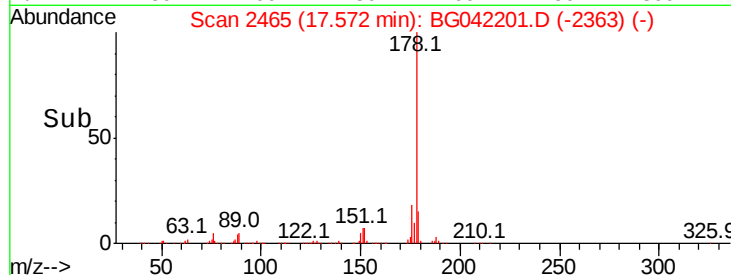
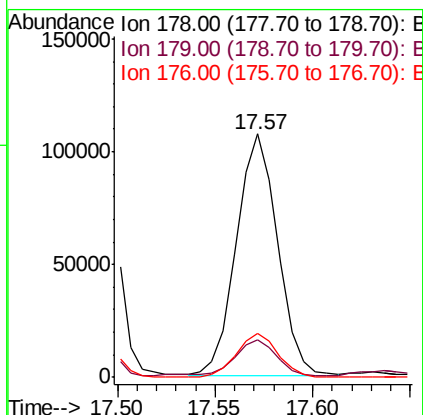
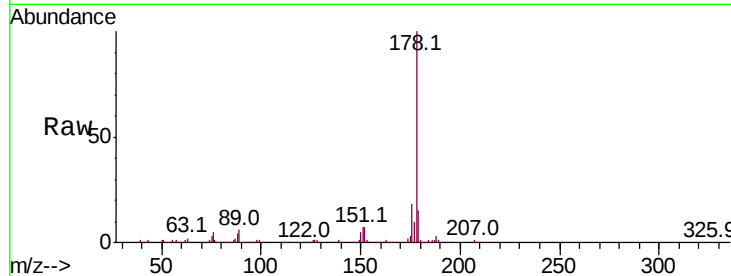




#71  
 Anthracene  
 Concen: 5.992 ng/ul  
 RT: 17.57 min Scan# 2465  
 Delta R.T. -0.00 min  
 Lab File: BG042201.D  
 Acq: 14 Aug 2019 8:41

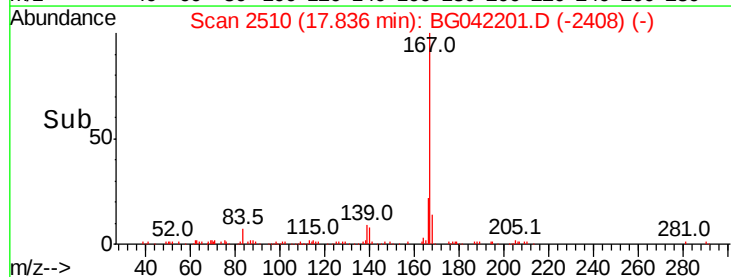
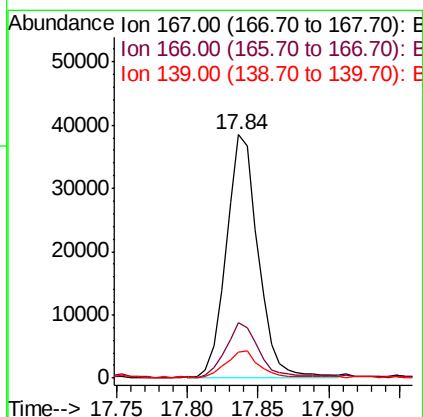
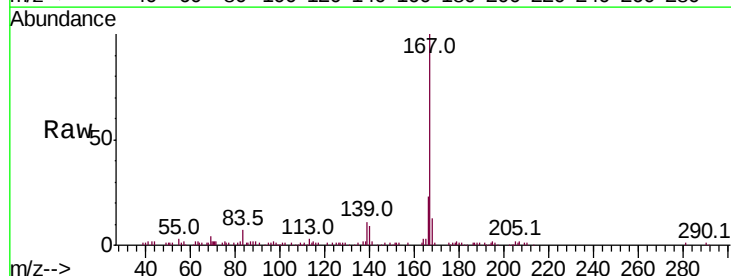
Instrument :  
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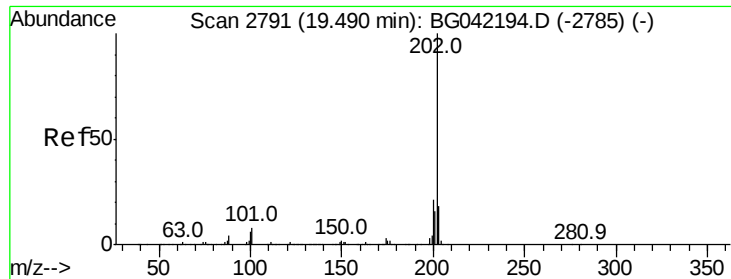
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.2  | 13.4  | 20.0  |
| 176     | 18.0  | 15.4  | 23.2  |



#74  
 Carbazole  
 Concen: 2.752 ng/ul  
 RT: 17.84 min Scan# 2510  
 Delta R.T. -0.00 min  
 Lab File: BG042201.D  
 Acq: 14 Aug 2019 8:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 22.6  | 18.2  | 27.4  |
| 139     | 10.9  | 9.6   | 14.4  |





#76

Fluoranthene

Concen: 34.125 ng/ul

RT: 19.49 min Scan# 2792

Delta R.T. 0.00 min

Lab File: BG042201.D

Acq: 14 Aug 2019 8:41

Instrument :

BNA\_G

ClientSampleId :

CB5N8

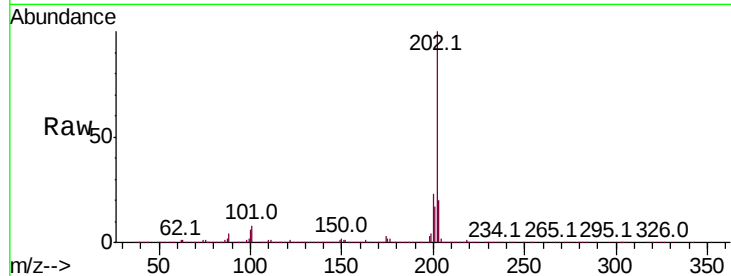
Tot Ion:202 Resp: 1021639

Ion Ratio Lower Upper

202 100

101 7.9 6.7 10.1

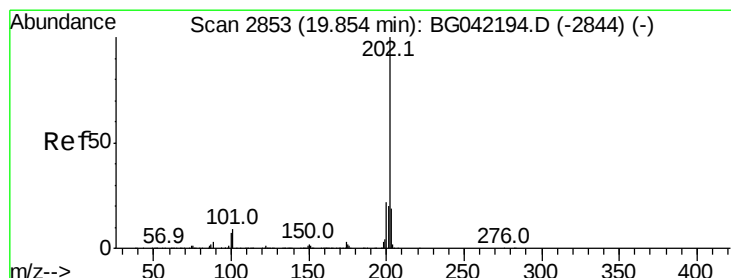
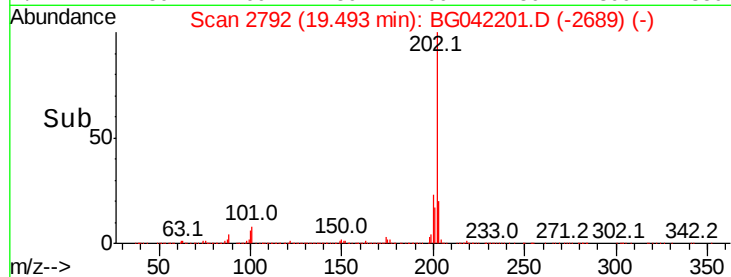
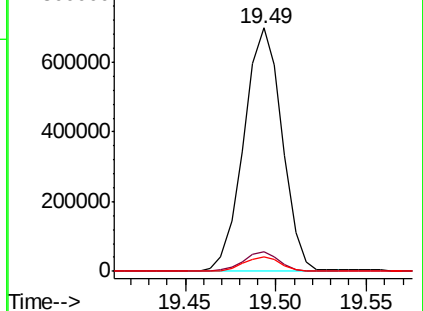
100 6.2 5.3 7.9



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: 27.600 ng/ul

RT: 19.86 min Scan# 2854

Delta R.T. 0.00 min

Lab File: BG042201.D

Acq: 14 Aug 2019 8:41

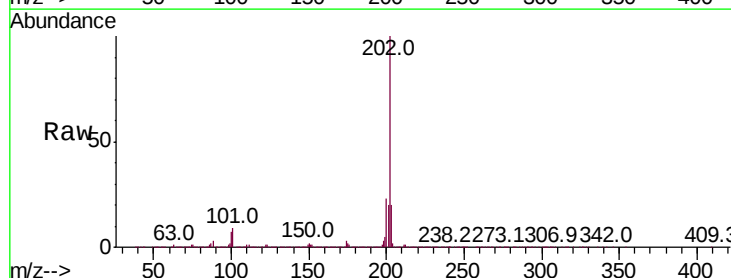
Tgt Ion:202 Resp: 866342

Ion Ratio Lower Upper

202 100

101 8.6 7.6 11.4

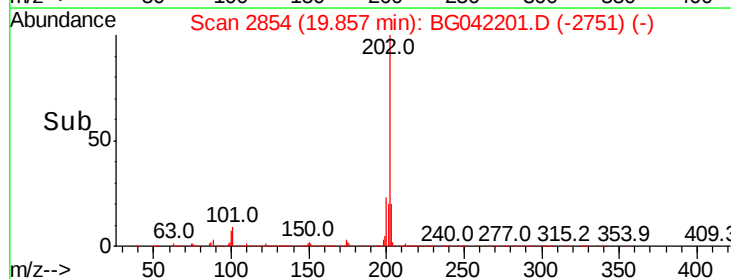
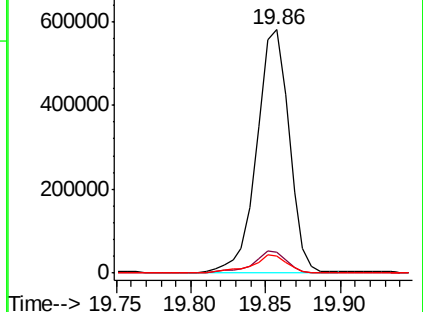
100 7.1 6.5 9.7

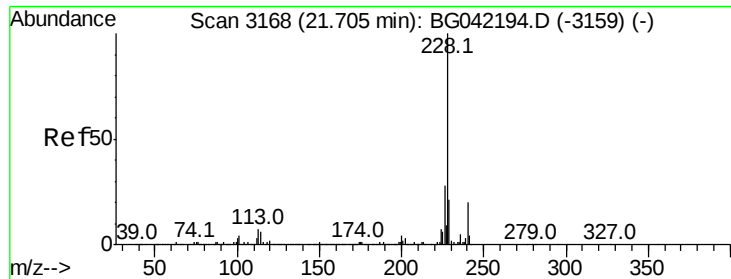


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): B

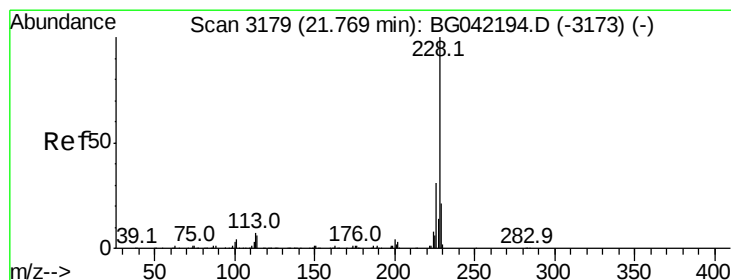
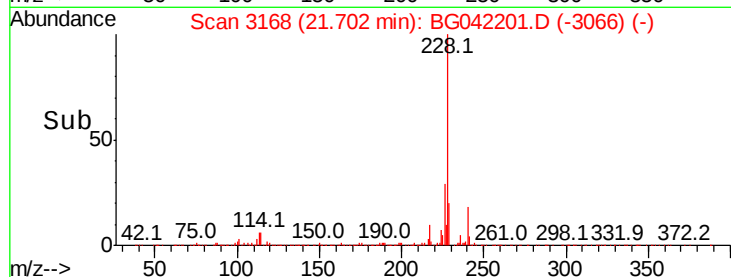
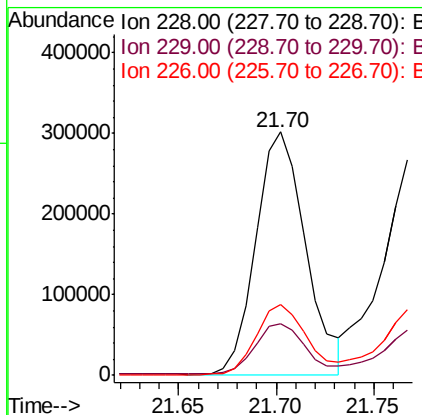
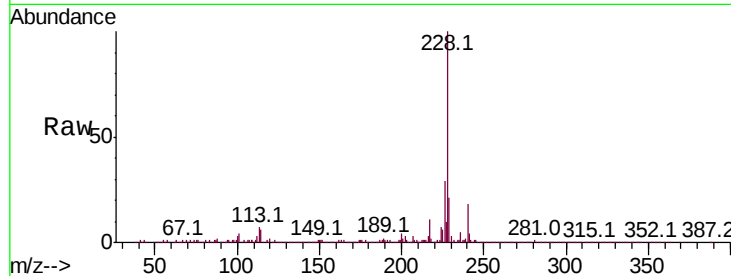




#82  
Benzo(a)anthracene  
Concen: 16.409 ng/ul  
RT: 21.70 min Scan# 3168  
Delta R.T. -0.00 min  
Lab File: BG042201.D  
Acq: 14 Aug 2019 8:41

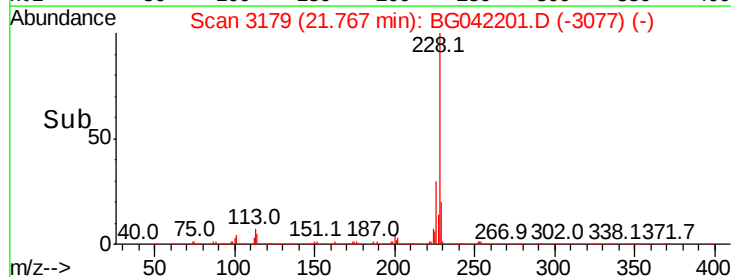
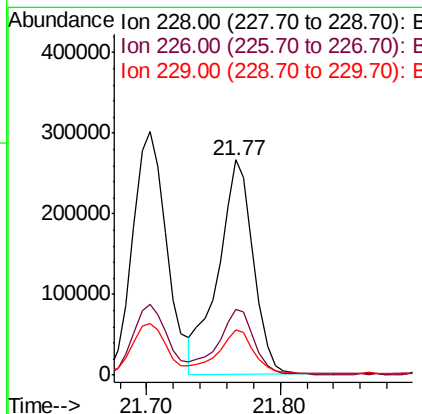
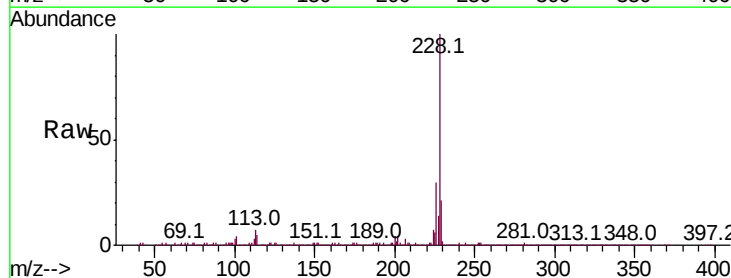
Instrument :  
BNA\_G  
ClientSampleId :  
CB5N8

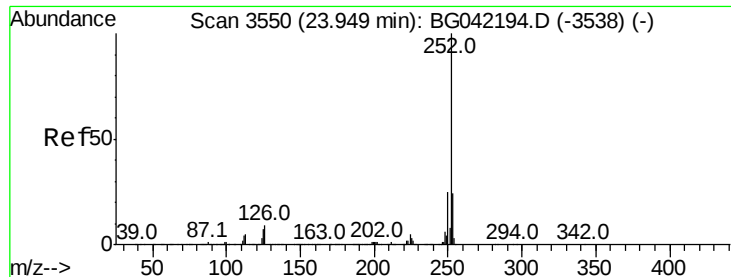
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.2  | 17.0  | 25.6  |
| 226     | 29.1  | 23.3  | 34.9  |



#84  
Chrysene  
Concen: 16.131 ng/ul  
RT: 21.77 min Scan# 3179  
Delta R.T. -0.00 min  
Lab File: BG042201.D  
Acq: 14 Aug 2019 8:41

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.5  | 25.7  | 38.5  |
| 229     | 20.7  | 16.6  | 24.8  |





#87

Benzo(b)fluoranthene

Concen: 19.371 ng/ul

RT: 23.96 min Scan# 3552

Delta R.T. 0.01 min

Lab File: BG042201.D

Acq: 14 Aug 2019 8:41

Instrument :

BNA\_G

ClientSampleId :

CB5N8

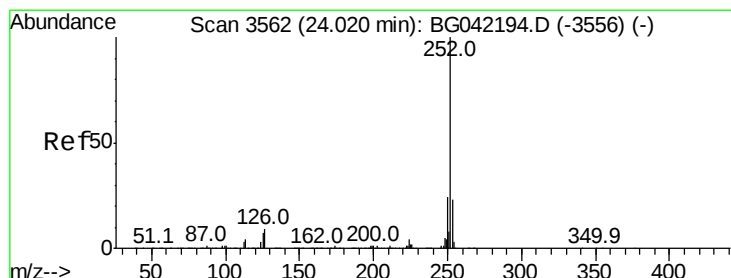
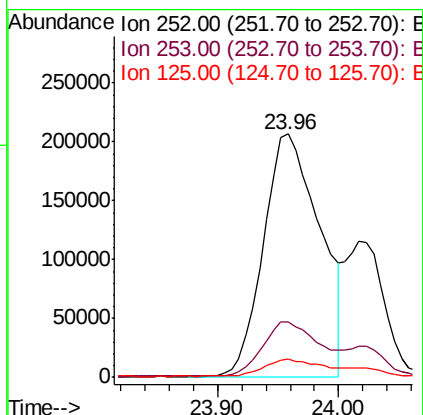
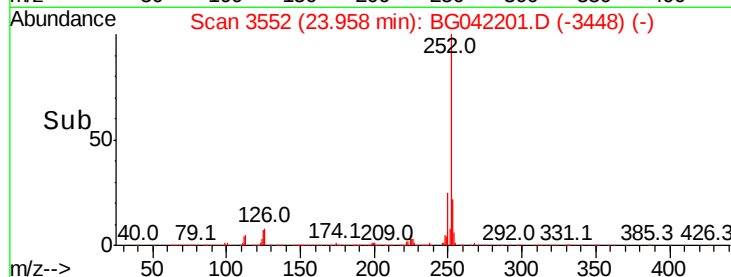
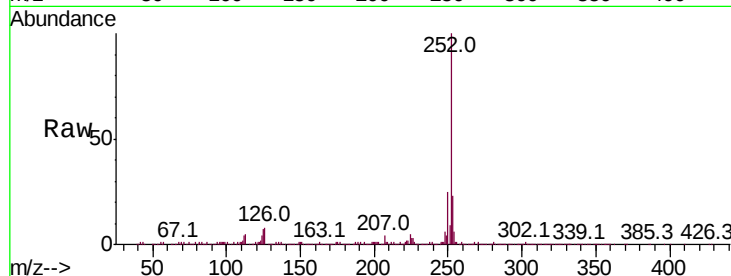
Tot Ion:252 Resp: 669729

Ion Ratio Lower Upper

252 100

253 22.7 18.4 27.6

125 7.3 5.8 8.8



#88

Benzo(k)fluoranthene

Concen: 20.147 ng/ul

RT: 23.96 min Scan# 3552

Delta R.T. -0.05 min

Lab File: BG042201.D

Acq: 14 Aug 2019 8:41

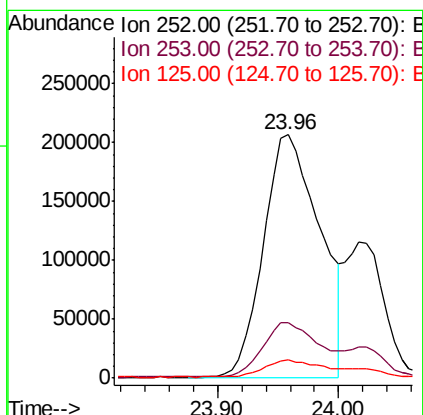
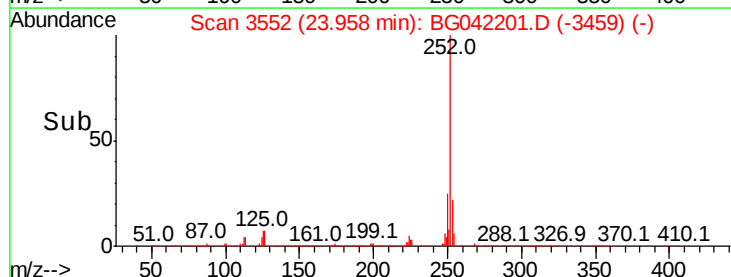
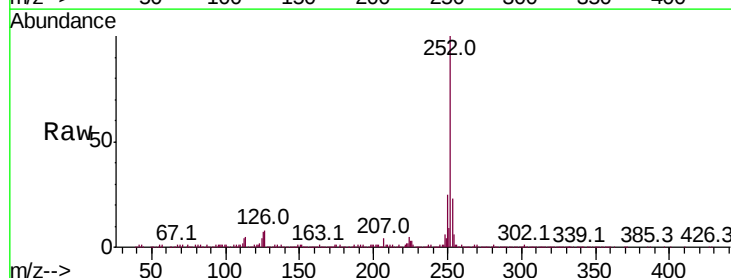
Tgt Ion:252 Resp: 669729

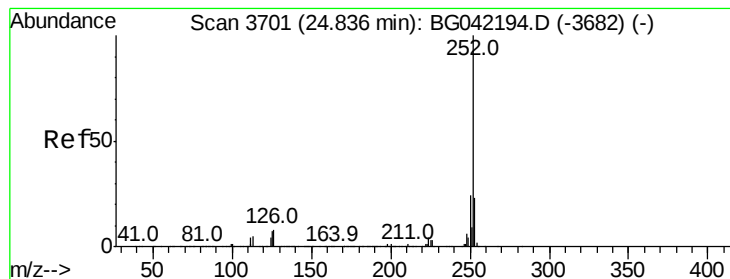
Ion Ratio Lower Upper

252 100

253 22.7 18.3 27.5

125 7.3 5.5 8.3





#90

Benzo(a)pyrene

Concen: 14.526 ng/ul

RT: 24.85 min Scan# 3703

Delta R.T. 0.01 min

Lab File: BG042201.D

Acq: 14 Aug 2019 8:41

Instrument :

BNA\_G

ClientSampleId :

CB5N8

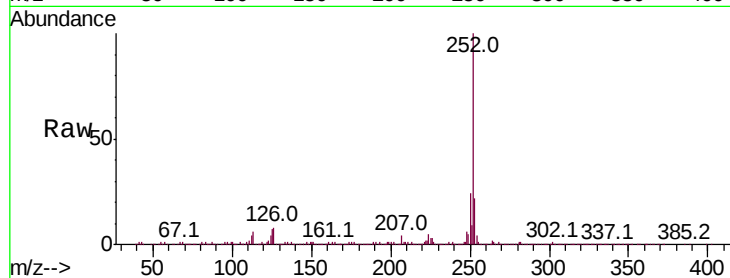
Tot Ion:252 Resp: 478571

Ion Ratio Lower Upper

252 100

253 22.3 18.3 27.5

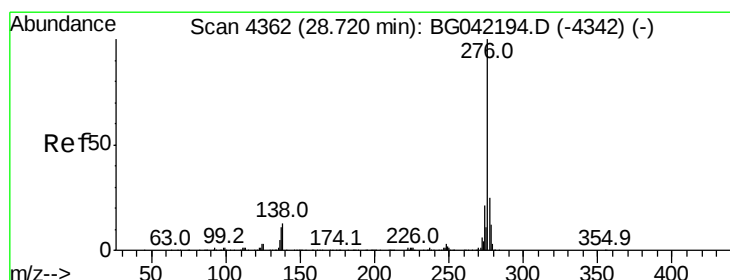
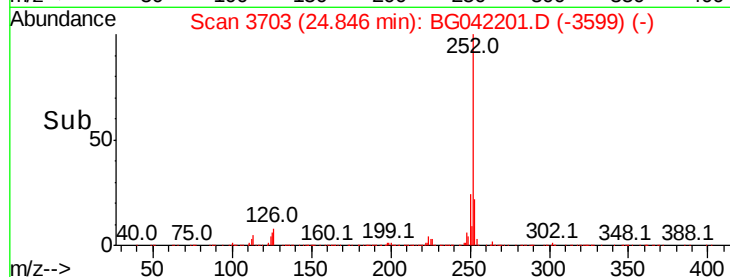
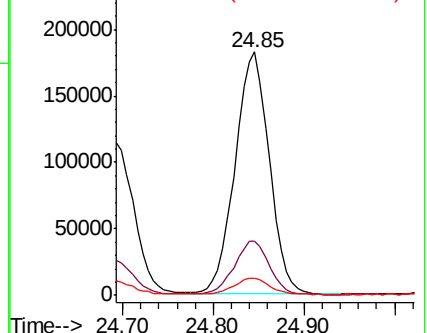
125 7.2 6.5 9.7



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



#91

Indeno(1,2,3-cd)pyrene

Concen: 7.645 ng/ul

RT: 28.73 min Scan# 4364

Delta R.T. 0.02 min

Lab File: BG042201.D

Acq: 14 Aug 2019 8:41

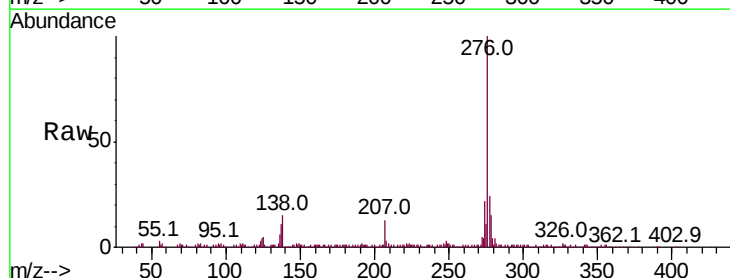
Tgt Ion:276 Resp: 293758

Ion Ratio Lower Upper

276 100

138 15.2 12.0 18.0

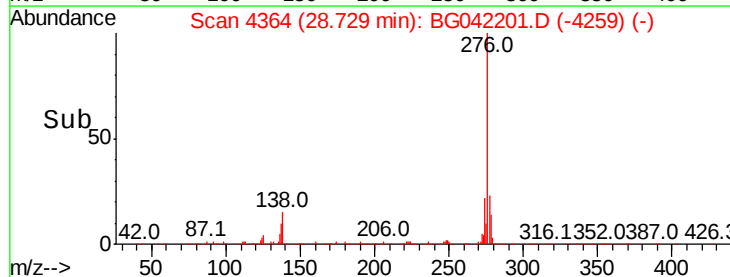
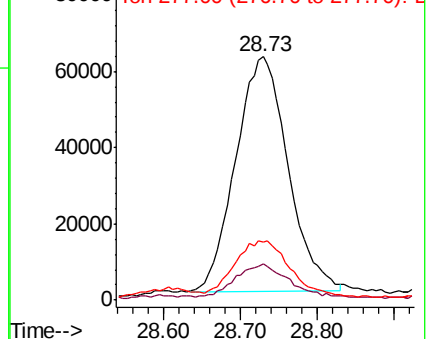
277 24.0 19.2 28.8

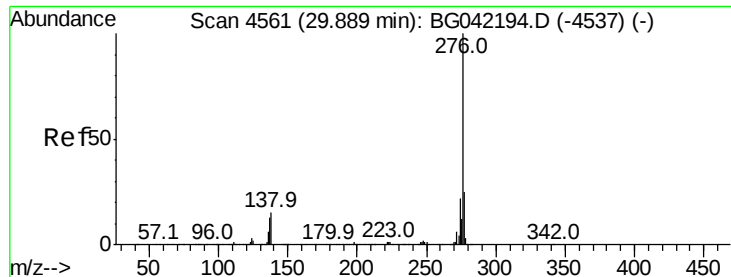


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#93

Benzo(a,h,i)perylene

Concen: 7.430 ng/ul

RT: 29.89 min Scan# 4561

Delta R.T. 0.01 min

Lab File: BG042201.D

Acq: 14 Aug 2019 8:41

Instrument :

BNA\_G

ClientSampleId :

CB5N8

Tot Ion:276 Resp: 238383

Ion Ratio Lower Upper

276 100

138 13.2 12.6 18.8

277 23.5 19.2 28.8

