

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG120820\  
 Data File : BG047689.D  
 Acq On : 10 Dec 2020 2:04  
 Operator : CG/JU  
 Sample : L4941-02  
 Misc :  
 ALS Vial : 42 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C0AX3

Manual Integrations  
 APPROVED

mohammad  
 12/10/2020 8:38:24 AM

Quant Time: Dec 10 04:06:04 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG120720MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Dec 10 03:40:15 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 8.21  | 152  | 34102    | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 11.04 | 136  | 131278   | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.84 | 164  | 101905   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 17.57 | 188  | 256270   | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.85 | 240  | 241241   | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 25.21 | 264  | 249756   | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

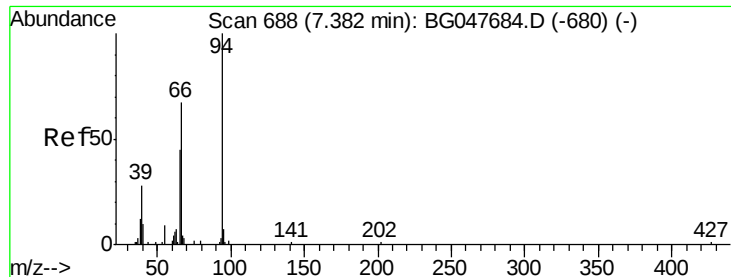
|                                |       |     |        |       |       |      |
|--------------------------------|-------|-----|--------|-------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.54  | 96  | 683    | 1.07  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 7.36  | 99  | 27528  | 9.43  | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.53  | 67  | 16344m | 10.89 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.74  | 132 | 22100  | 9.98  | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.91  | 113 | 18869  | 8.15  | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 9.38  | 128 | 11900  | 11.12 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 10.11 | 143 | 14408  | 11.17 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.65 | 165 | 28092  | 10.03 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 11.17 | 131 | 22077m | 8.58  | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 14.23 | 166 | 89557  | 10.12 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 14.53 | 160 | 112104 | 11.09 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 15.00 | 143 | 11288m | 8.60  | ng/ul | 0.00 |
| 58) Fluorene-d10               | 15.82 | 176 | 83211  | 10.21 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.92 | 200 | 11998m | 6.92  | ng/ul | 0.00 |
| 71) Anthracene-d10             | 17.67 | 188 | 141296 | 11.05 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.94 | 212 | 172368 | 12.09 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 24.98 | 264 | 173765 | 11.91 | ng/ul | 0.00 |

## Target Compounds

|                                |       |     |         | Ovalue |           |
|--------------------------------|-------|-----|---------|--------|-----------|
| 6) Phenol                      | 7.38  | 94  | 6862    | 2.489  | ng/ul# 91 |
| 45) Dimethylphthalate          | 14.27 | 163 | 20323   | 2.267  | ng/ul# 92 |
| 59) Fluorene                   | 15.87 | 166 | 9925    | 1.200  | ng/ul# 91 |
| 70) Phenanthrene               | 17.62 | 178 | 254477  | 18.321 | ng/ul 99  |
| 72) Anthracene                 | 17.70 | 178 | 45412   | 3.280  | ng/ul 95  |
| 75) Carbazole                  | 17.97 | 167 | 19899   | 1.802  | ng/ul# 92 |
| 77) Fluoranthene               | 19.61 | 202 | 623414  | 35.274 | ng/ul# 98 |
| 80) Pyrene                     | 19.97 | 202 | 474730  | 27.057 | ng/ul# 98 |
| 83) Benzo(a)anthracene         | 21.83 | 228 | 268689  | 15.590 | ng/ul 98  |
| 84) Bis(2-ethylhexyl)phthalate | 21.71 | 149 | 24168   | 2.950  | ng/ul 94  |
| 85) Chrysene                   | 21.90 | 228 | 290638  | 17.867 | ng/ul 97  |
| 88) Benzo(b)fluoranthene       | 24.14 | 252 | 364545  | 20.909 | ng/ul 99  |
| 89) Benzo(k)fluoranthene       | 24.21 | 252 | 146102m | 8.456  | ng/ul     |
| 91) Benzo(a)pyrene             | 25.05 | 252 | 235578  | 14.984 | ng/ul# 98 |
| 92) Indeno(1,2,3-cd)pyrene     | 29.07 | 276 | 164466  | 8.578  | ng/ul# 98 |
| 93) Dibenzo(a,h)anthracene     | 29.14 | 278 | 48713m  | 3.031  | ng/ul     |
| 94) Benzo(g,h,i)perylene       | 30.28 | 276 | 140857m | 8.948  | ng/ul     |

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





#6

Phenol

Concen: 2.489 ng/ul

RT: 7.38 min Scan# 688

Delta R.T. 0.00 min

Lab File: BG047689.D

Acq: 10 Dec 2020 2:04

Instrument :

BNA\_G

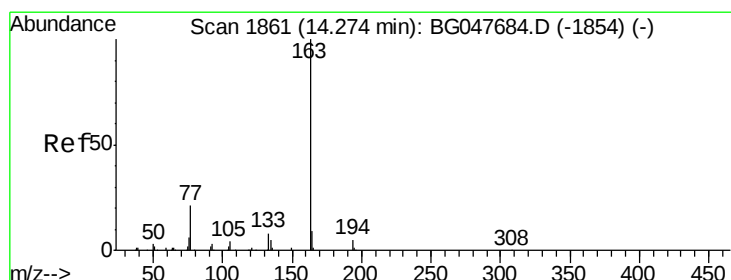
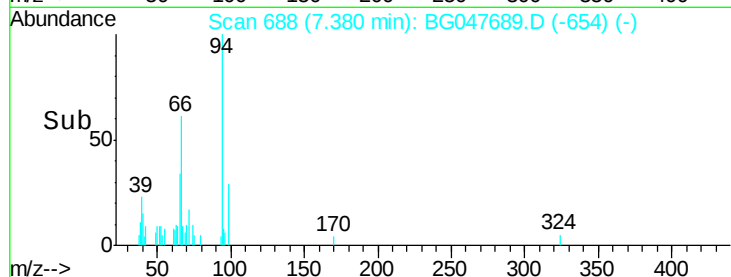
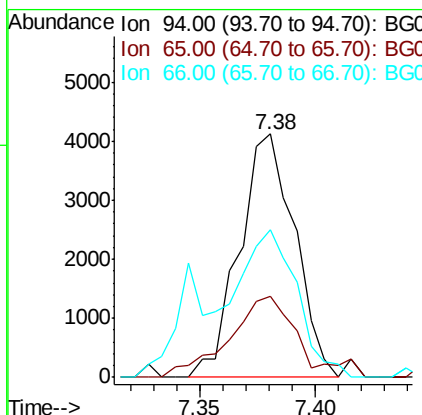
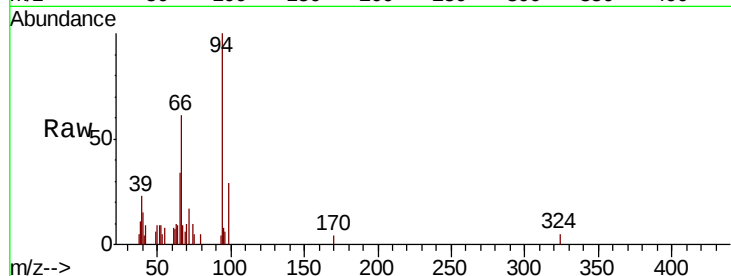
ClientSampled :

C0AX3

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 94    | Resp: | 6862  |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 33.5  | 35.9  | 53.9# |
| 66       | 60.5  | 50.1  | 75.1  |

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#45

Dimethylphthalate

Concen: 2.267 ng/ul

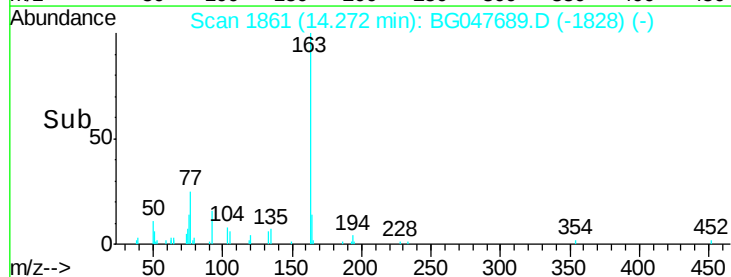
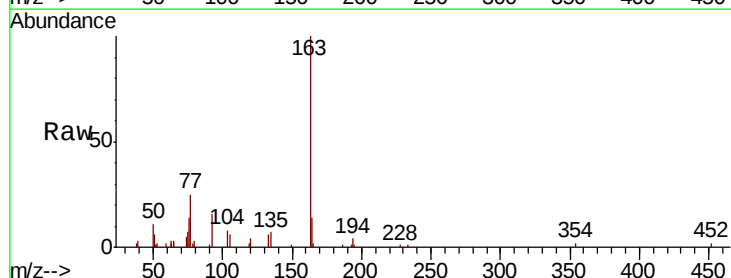
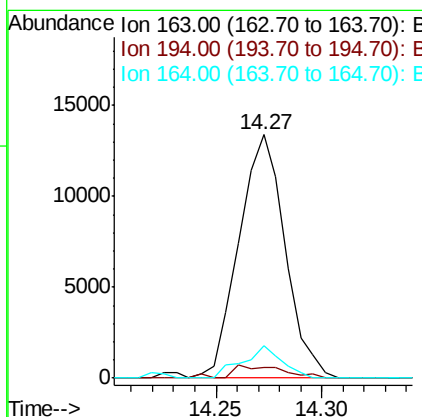
RT: 14.27 min Scan# 1861

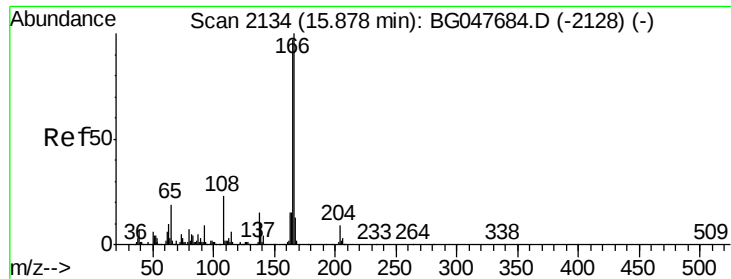
Delta R.T. -0.01 min

Lab File: BG047689.D

Acq: 10 Dec 2020 2:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 163   | Resp: | 20323 |
| Ion      | Ratio | Lower | Upper |
| 163      | 100   |       |       |
| 194      | 4.2   | 3.9   | 5.9   |
| 164      | 13.6  | 7.4   | 11.2# |





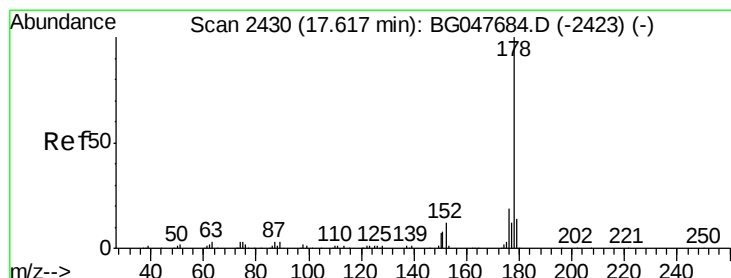
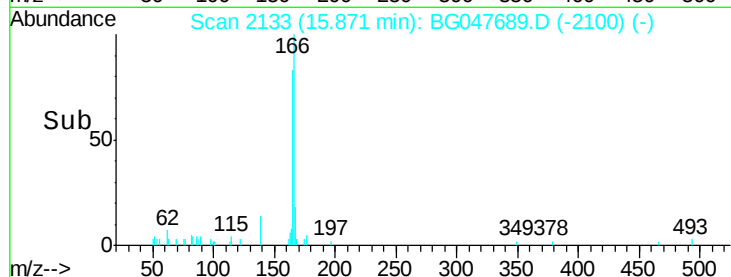
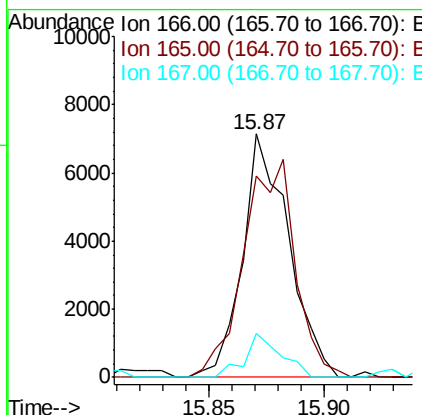
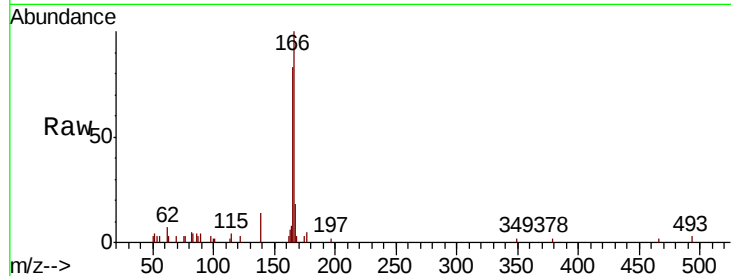
#59  
Fluorene  
Concen: 1.200 ng/ul  
RT: 15.87 min Scan# 2133  
Delta R.T. -0.01 min  
Lab File: BG047689.D  
Acq: 10 Dec 2020 2:04

Instrument :  
BNA\_G  
ClientSampleId :  
C0AX3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 82.9  | 72.9  | 109.3 |
| 167     | 18.0  | 10.9  | 16.3  |

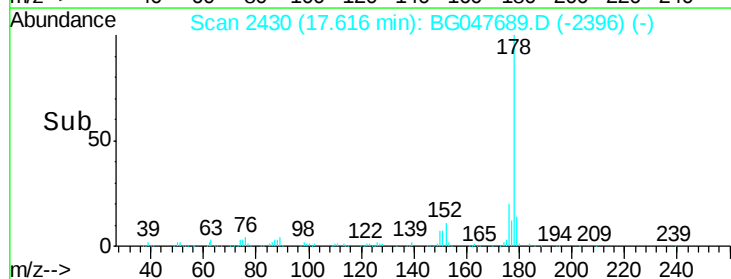
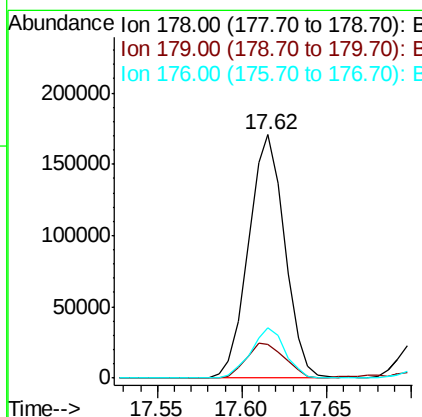
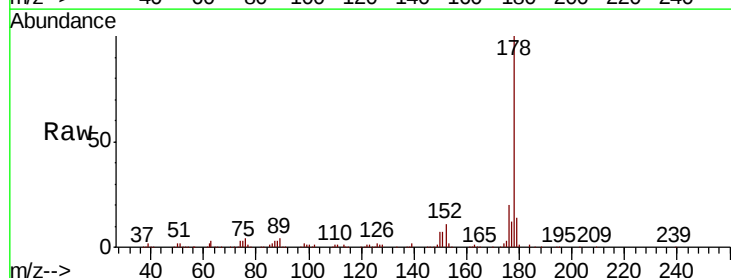
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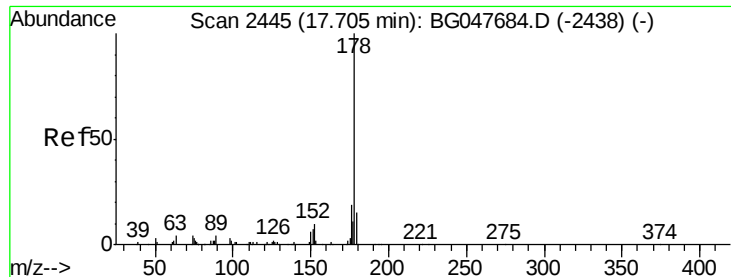
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#70  
Phenanthrene  
Concen: 18.321 ng/ul  
RT: 17.62 min Scan# 2430  
Delta R.T. 0.00 min  
Lab File: BG047689.D  
Acq: 10 Dec 2020 2:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 14.0  | 11.6  | 17.4  |
| 176     | 20.4  | 15.8  | 23.8  |





#72

Anthracene

Concen: 3.280 ng/ul

RT: 17.70 min Scan# 2445

Delta R.T. 0.00 min

Lab File: BG047689.D

Acq: 10 Dec 2020 2:04

Instrument :

BNA\_G

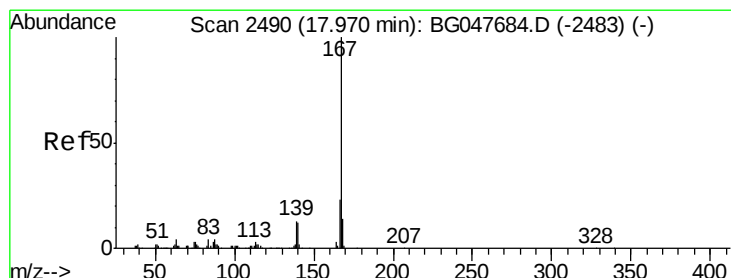
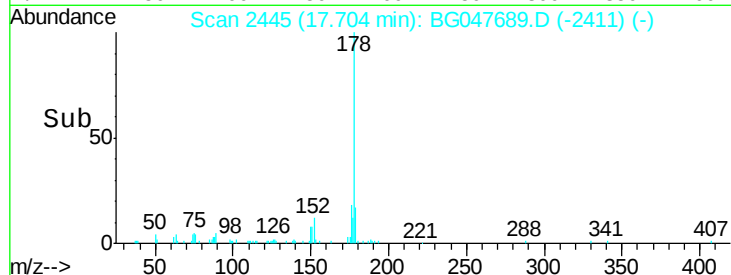
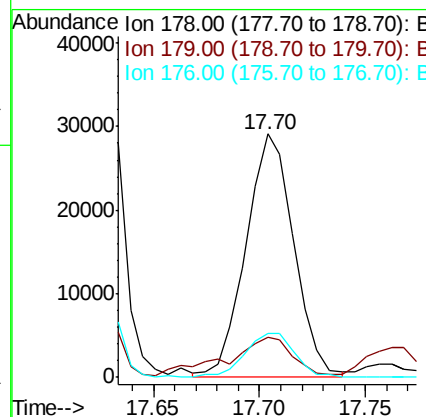
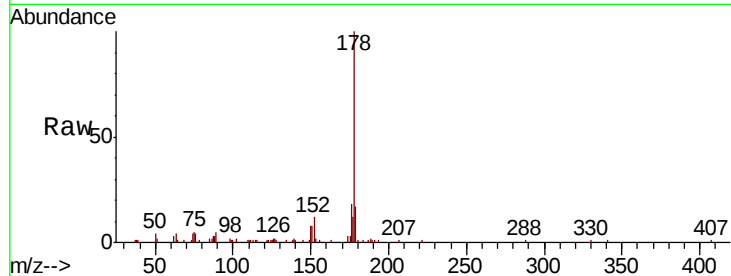
ClientSampleId :

C0AX3

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 45412 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 16.5  | 14.2  | 21.2  |
| 176       | 17.9  | 16.7  | 25.1  |

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#75

Carbazole

Concen: 1.802 ng/ul

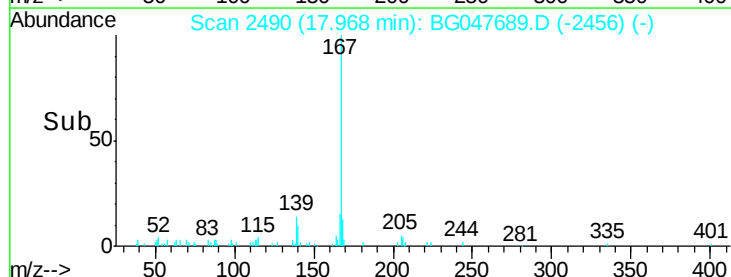
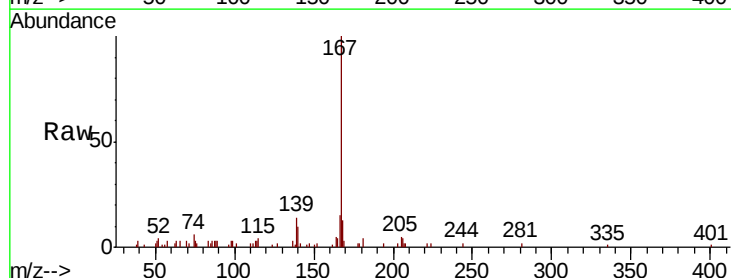
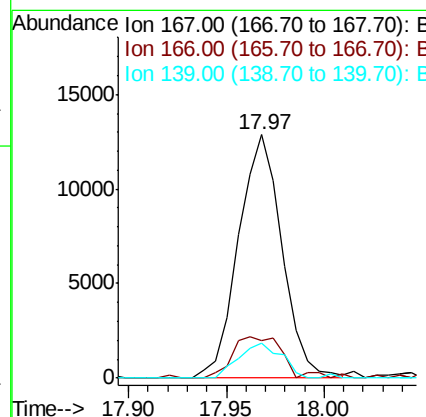
RT: 17.97 min Scan# 2490

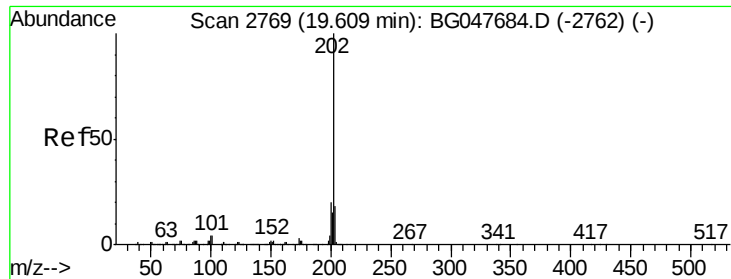
Delta R.T. 0.00 min

Lab File: BG047689.D

Acq: 10 Dec 2020 2:04

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 167   | Resp: | 19899 |
| Ion Ratio | Lower | Upper |       |
| 167       | 100   |       |       |
| 166       | 15.5  | 16.2  | 24.2# |
| 139       | 14.4  | 10.2  | 15.4  |





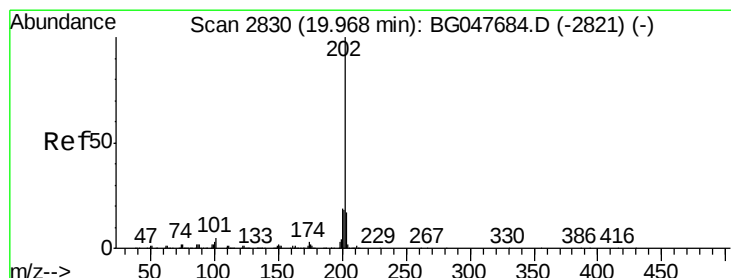
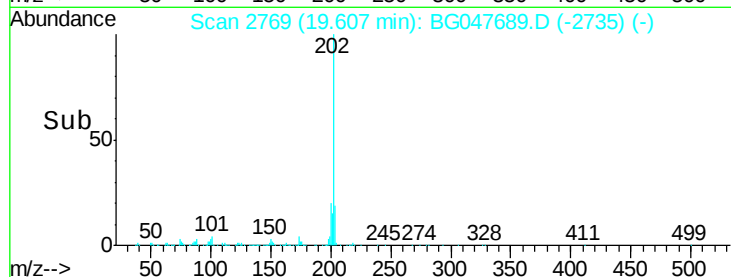
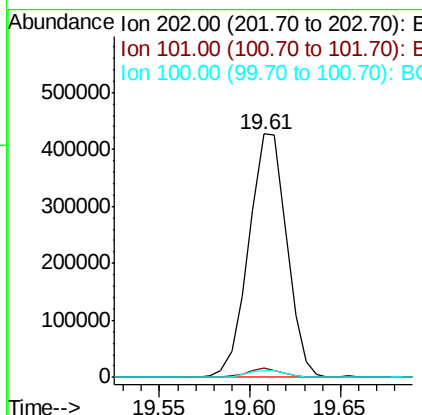
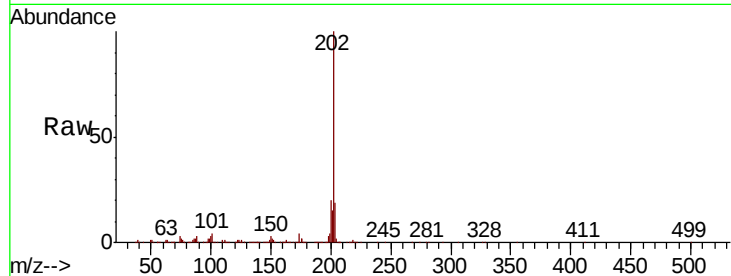
#77  
 Fluoranthene  
 Concen: 35.274 ng/ul  
 RT: 19.61 min Scan# 2769  
 Delta R.T. 0.00 min  
 Lab File: BG047689.D  
 Acq: 10 Dec 2020 2:04

Instrument :  
 BNA\_G  
 ClientSampled :  
 C0AX3

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 3.9   | 2.4        | 3.6#  |
| 100     | 2.8   | 2.6        | 3.8   |

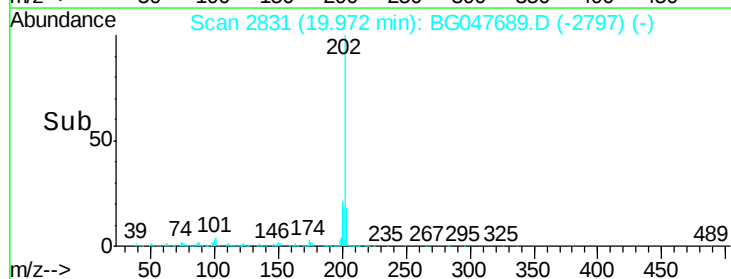
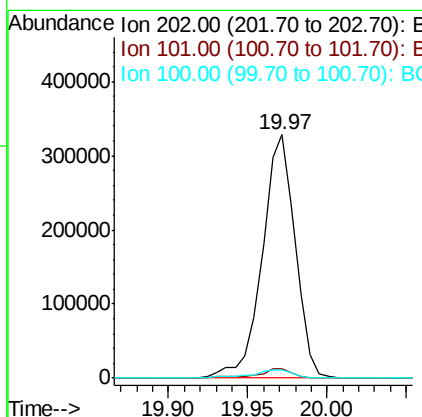
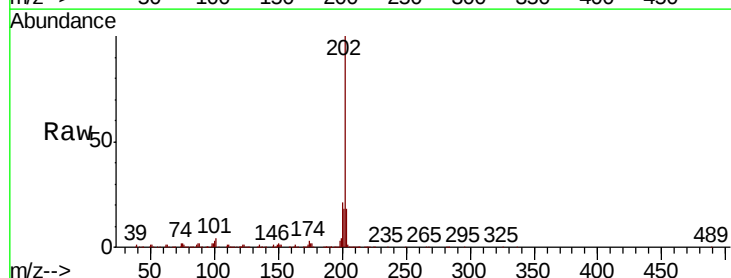
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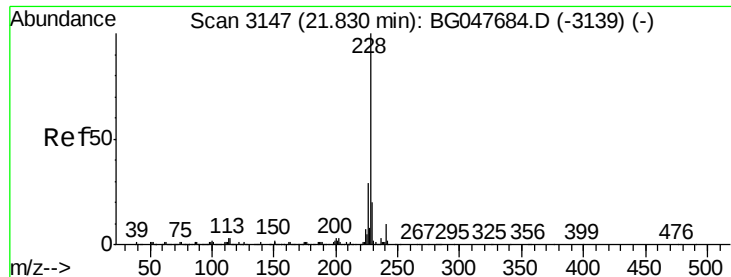
mohammad  
 12/10/2020 8:38:24 AM



#80  
 Pyrene  
 Concen: 27.057 ng/ul  
 RT: 19.97 min Scan# 2831  
 Delta R.T. 0.00 min  
 Lab File: BG047689.D  
 Acq: 10 Dec 2020 2:04

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 3.9   | 2.5        | 3.7#  |
| 100     | 3.4   | 2.4        | 3.6   |





#83

Benzo(a)anthracene

Concen: 15.590 ng/ul

RT: 21.83 min Scan# 3147

Delta R.T. 0.00 min

Lab File: BG047689.D

Acq: 10 Dec 2020 2:04

Instrument :

BNA\_G

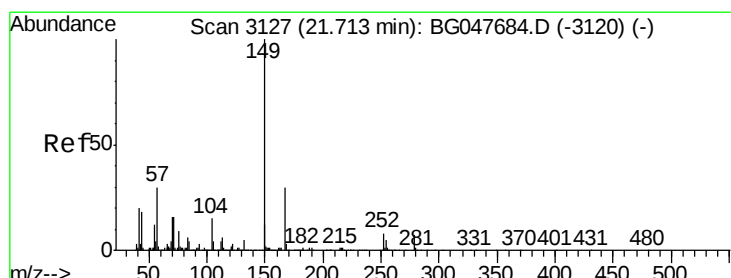
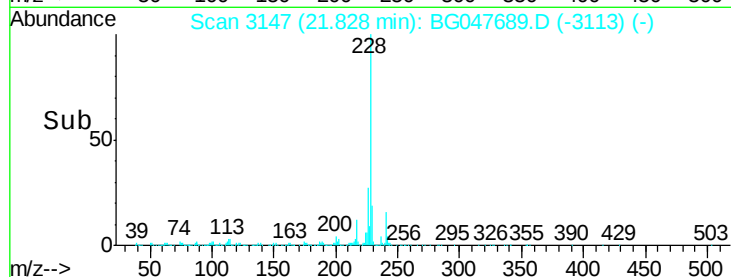
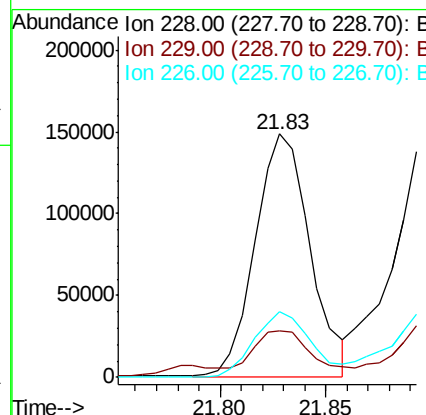
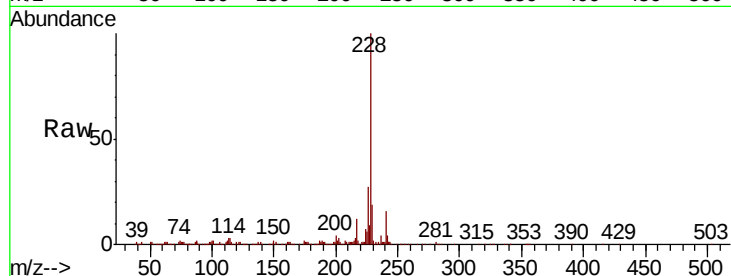
ClientSampleId :

C0AX3

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 228   | Resp: | 268689 |
| Ion      | Ratio | Lower | Upper  |
| 228      | 100   |       |        |
| 229      | 18.9  | 16.0  | 24.0   |
| 226      | 27.0  | 22.4  | 33.6   |

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#84

Bis(2-ethylhexyl)phthalate

Concen: 2.950 ng/ul

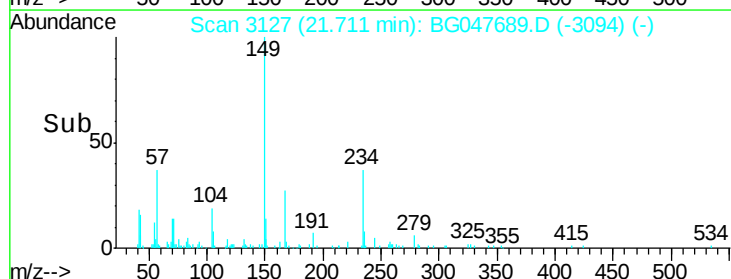
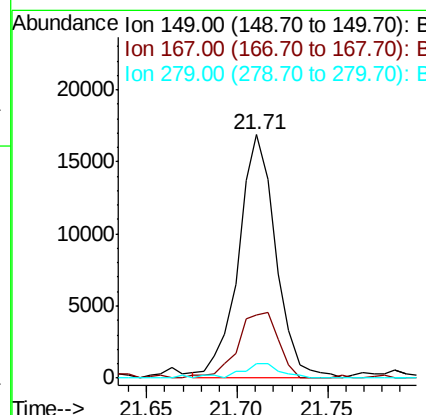
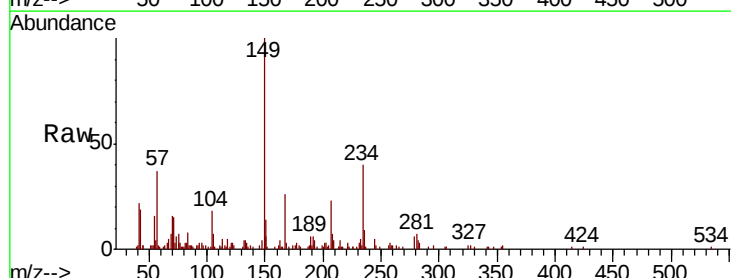
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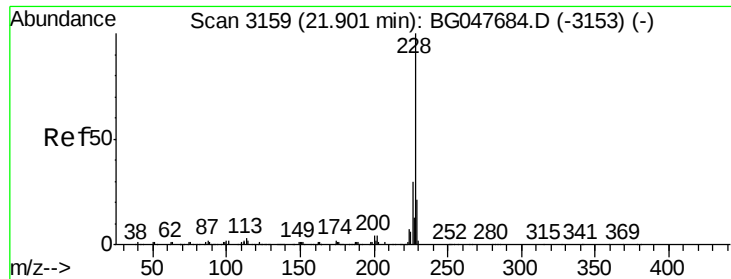
Delta R.T. -0.01 min

Lab File: BG047689.D

Acq: 10 Dec 2020 2:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 149   | Resp: | 24168 |
| Ion      | Ratio | Lower | Upper |
| 149      | 100   |       |       |
| 167      | 25.8  | 23.8  | 35.6  |
| 279      | 6.0   | 5.3   | 7.9   |





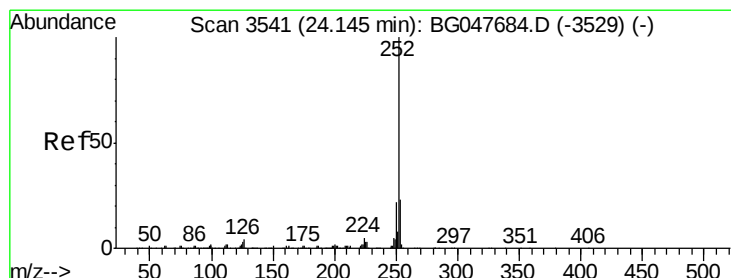
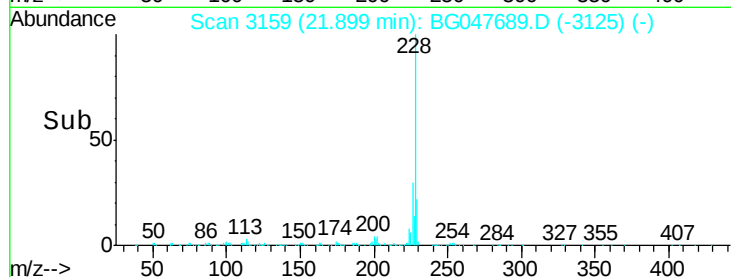
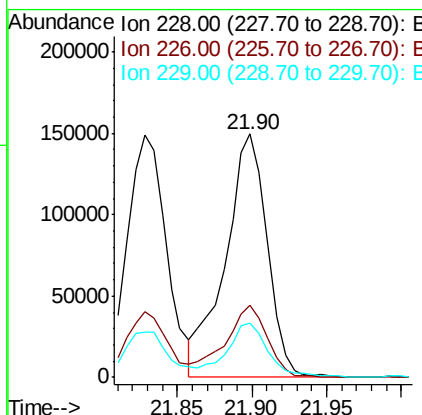
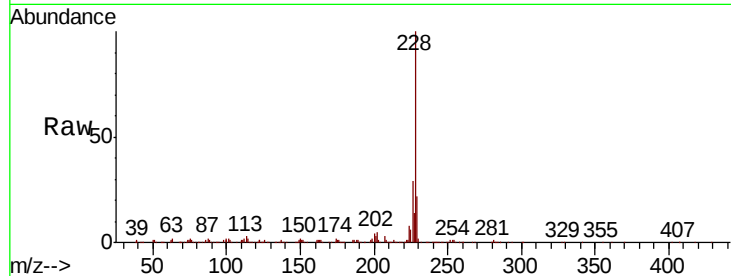
#85  
 Chrysene  
 Concen: 17.867 ng/ul  
 RT: 21.90 min Scan# 3159  
 Delta R.T. 0.00 min  
 Lab File: BG047689.D  
 Acq: 10 Dec 2020 2:04

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C0AX3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.5  | 23.0  | 34.4  |
| 229     | 22.3  | 15.8  | 23.8  |

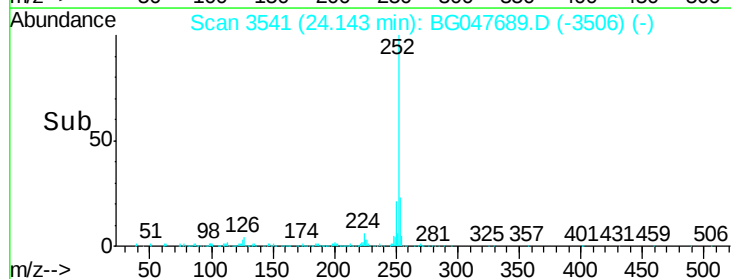
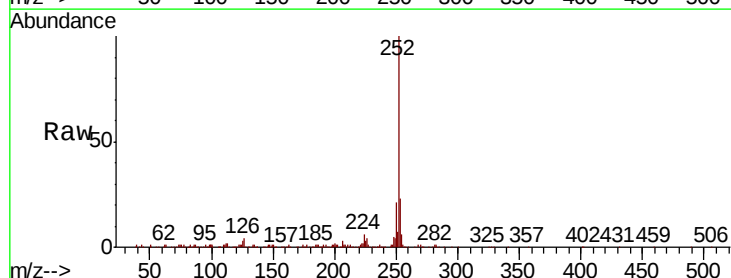
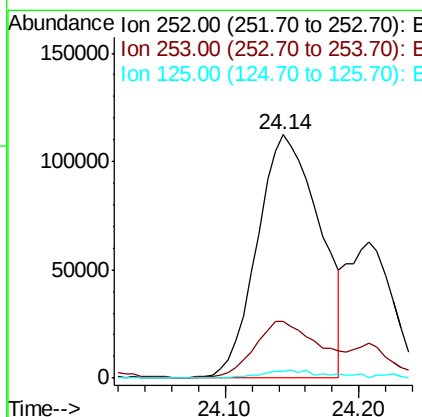
Manual Integrations  
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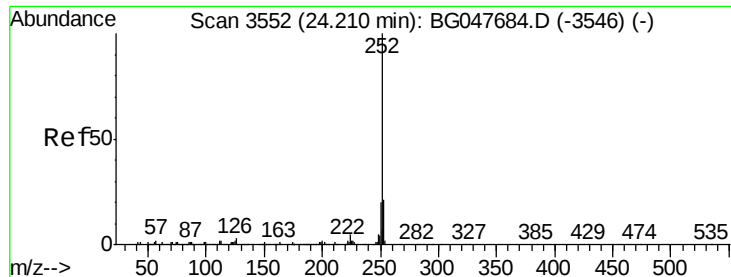
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 12/10/2020 8:38:24 AM



#88  
 Benzo(b)fluoranthene  
 Concen: 20.909 ng/ul  
 RT: 24.14 min Scan# 3541  
 Delta R.T. 0.01 min  
 Lab File: BG047689.D  
 Acq: 10 Dec 2020 2:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 18.7  | 28.1  |
| 125     | 2.9   | 2.6   | 3.8   |





#89

Benzo(k)fluoranthene

Concen: 8.456 ng/ul m

RT: 24.21 min Scan# 3552

Delta R.T. 0.00 min

Lab File: BG047689.D

Acq: 10 Dec 2020 2:04

Instrument :

BNA\_G

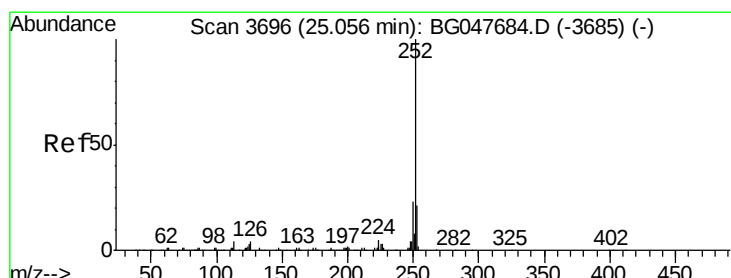
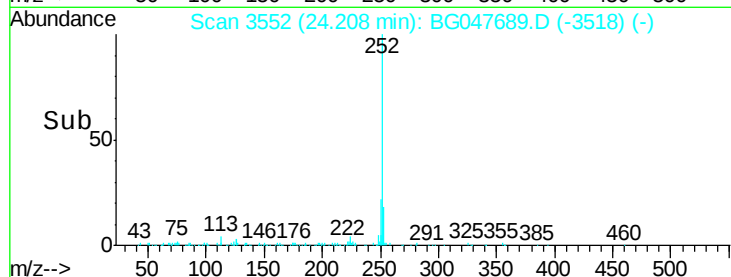
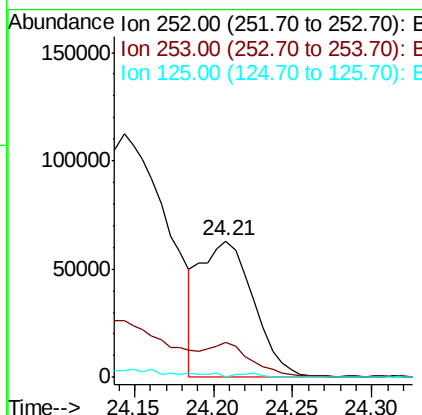
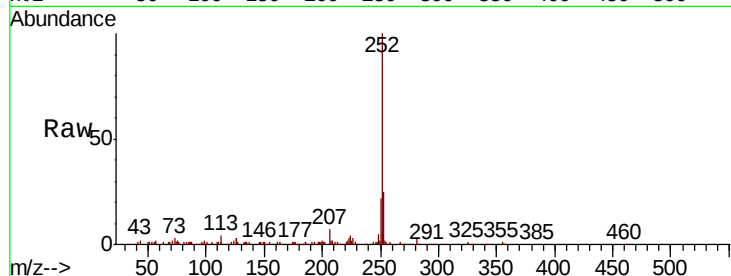
ClientSampleId :

C0AX3

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 252   | Resp: | 146102 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 25.2  | 16.9  | 25.3   |
| 125       | 0.0   | 2.2   | 3.4#   |

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#91

Benzo(a)pyrene

Concen: 14.984 ng/ul

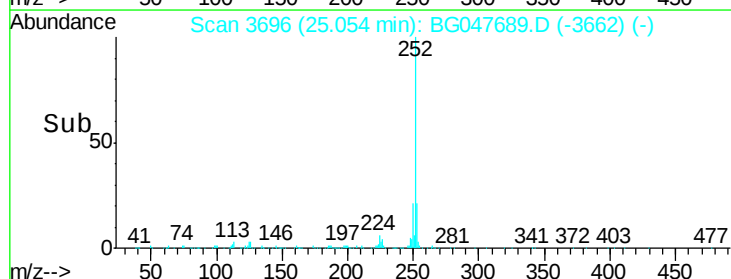
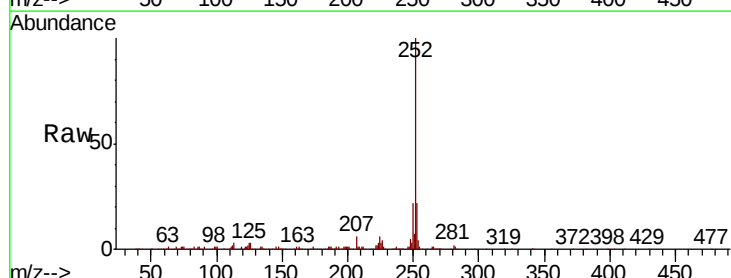
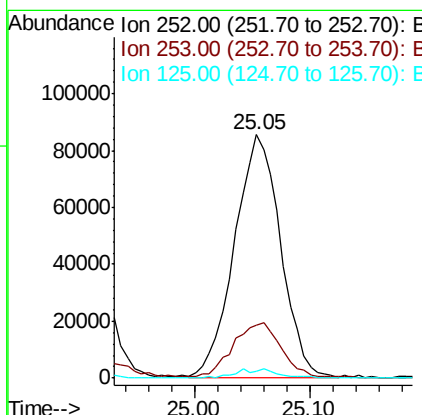
RT: 25.05 min Scan# 3696

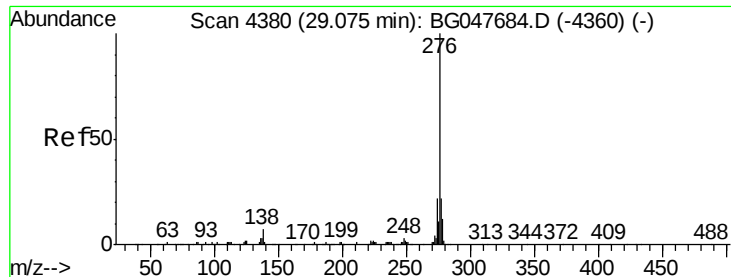
Delta R.T. 0.00 min

Lab File: BG047689.D

Acq: 10 Dec 2020 2:04

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 235578 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 21.9  | 16.9  | 25.3   |
| 125       | 2.5   | 2.6   | 3.8#   |





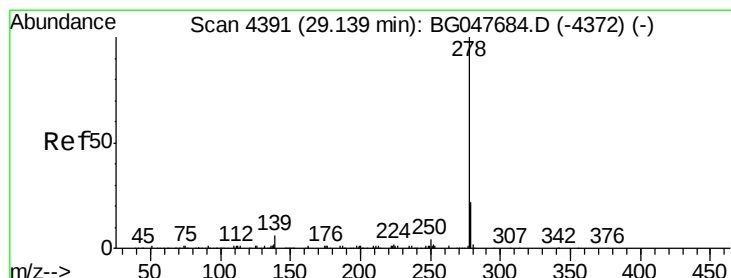
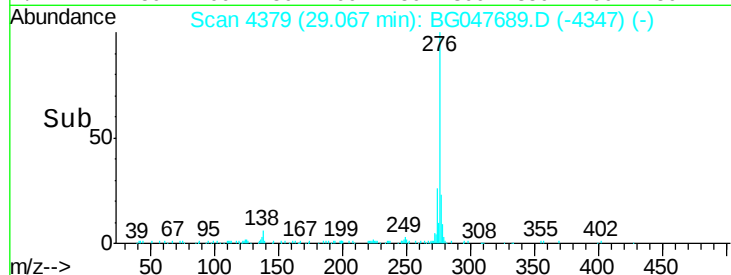
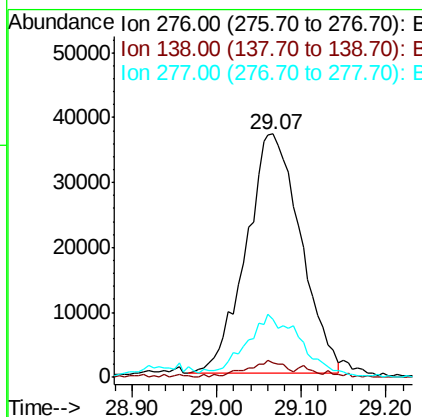
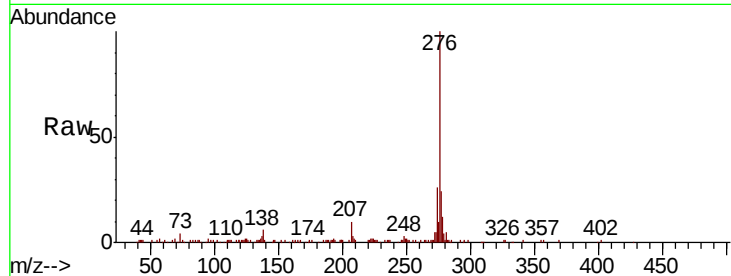
#92  
 Indeno(1,2,3-cd)pyrene  
 Concen: 8.578 ng/ul  
 RT: 29.07 min Scan# 4379  
 Delta R.T. -0.01 min  
 Lab File: BG047689.D  
 Acq: 10 Dec 2020 2:04

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C0AX3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 5.8   | 3.3   | 4.9#  |
| 277     | 23.8  | 18.6  | 27.8  |

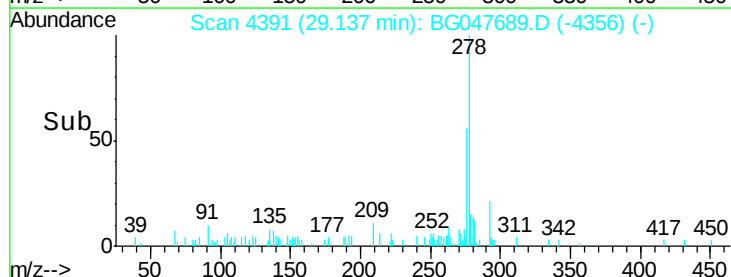
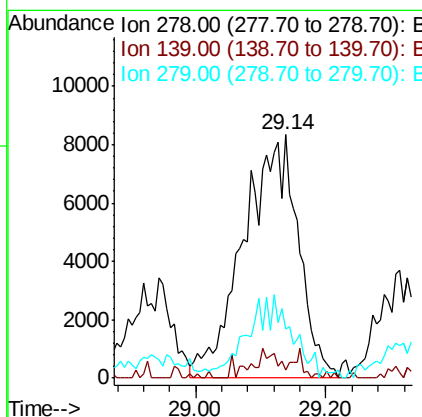
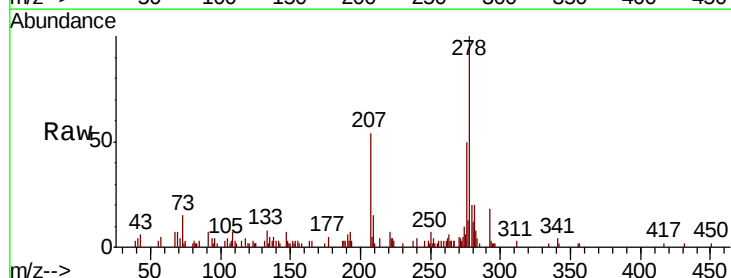
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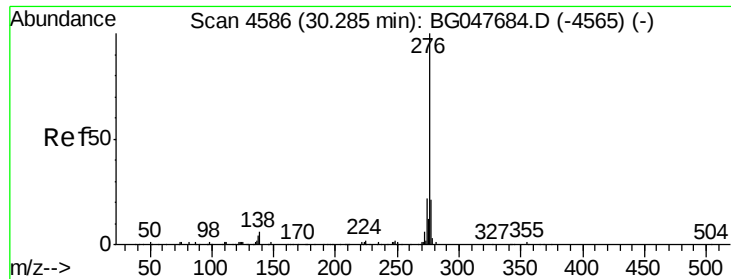
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#93  
 Dibenzo(a,h)anthracene  
 Concen: 3.031 ng/ul m  
 RT: 29.14 min Scan# 4391  
 Delta R.T. 0.01 min  
 Lab File: BG047689.D  
 Acq: 10 Dec 2020 2:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 3.2   | 3.3   | 4.9#  |
| 279     | 19.9  | 18.5  | 27.7  |





#94  
 Benzo(a,h,i)perylene  
 Concen: 8.948 ng/ul m  
 RT: 30.28 min Scan# 4585  
 Delta R.T. 0.01 min  
 Lab File: BG047689.D  
 Acq: 10 Dec 2020 2:04

Instrument :  
 BNA\_G  
 ClientSampleId :  
 C0AX3

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 4.8   | 4.7   | 7.1   |
| 277     | 21.1  | 21.9  | 32.9# |

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