

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG072123\  
 Data File : BG058382.D  
 Acq On : 21 Jul 2023 11:07  
 Operator : CG/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD020531

Quant Time: Jul 21 11:45:50 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG071723.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jul 18 02:19:39 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 07/22/2023  
 Supervised By :mohammad ahmed 07/22/2023

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.896  | 152  | 51644    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.693 | 136  | 232782   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.530 | 164  | 161702   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.280 | 188  | 389390   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.528 | 240  | 329896   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 24.659 | 264  | 400845   | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.337  | 96   | 12202    | 8.696  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.748  | 84   | 82676    | 19.851 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.056  | 99   | 91930    | 18.765 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.221  | 67   | 61334    | 20.030 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.426  | 132  | 67673    | 19.733 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.602  | 113  | 69300    | 18.545 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.054  | 128  | 34214    | 19.609 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.777  | 143  | 38292    | 20.102 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.317 | 165  | 69507    | 19.035 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.834 | 131  | 100648   | 19.013 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.936 | 166  | 219163   | 17.576 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.224 | 160  | 250678   | 19.184 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.736 | 143  | 33509    | 17.794 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.523 | 176  | 190362   | 18.440 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.646 | 200  | 36281    | 18.288 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.374 | 188  | 308885   | 18.359 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.665 | 212  | 358030   | 18.375 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.448 | 264  | 342056   | 17.655 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.372  | 88   | 12953    | 8.138  | ng/uL# | 90       |
| 5) Pyridine                   | 3.766  | 79   | 85983    | 19.550 | ng/u1  | 98       |
| 6) Benzaldehyde               | 7.033  | 77   | 38249m   | 19.332 | ng/u1  |          |
| 8) Phenol                     | 7.086  | 94   | 96865    | 19.039 | ng/u1  | 98       |
| 10) Bis(2-Chloroethyl)ether   | 7.315  | 93   | 77049    | 19.768 | ng/u1  | 98       |
| 12) 2-Chlorophenol            | 7.456  | 128  | 69715    | 19.421 | ng/u1  | 99       |
| 13) 2-Methylphenol            | 8.337  | 108  | 73500    | 18.536 | ng/u1  | 96       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.419  | 45   | 125584   | 19.662 | ng/u1  | 98       |
| 16) Acetophenone              | 8.713  | 105  | 119829   | 18.829 | ng/u1  | 98       |
| 17) N-Nitroso-di-n-propyla... | 8.696  | 70   | 63788    | 18.314 | ng/u1  | 96       |
| 18) 4-Methylphenol            | 8.666  | 108  | 80858    | 18.763 | ng/u1  | 97       |
| 19) Hexachloroethane          | 8.972  | 117  | 27450    | 19.400 | ng/u1  | 92       |
| 22) Nitrobenzene              | 9.101  | 77   | 91260    | 19.613 | ng/u1  | 98       |
| 23) Isophorone                | 9.612  | 82   | 188835   | 18.101 | ng/u1  | 98       |
| 25) 2-Nitrophenol             | 9.812  | 139  | 40429    | 19.870 | ng/u1  | 95       |
| 26) 2,4-Dimethylphenol        | 9.865  | 107  | 86269    | 19.015 | ng/u1  | 96       |
| 27) Bis(2-Chloroethoxy)met... | 10.100 | 93   | 105698   | 19.131 | ng/u1  | 98       |
| 29) 2,4-Dichlorophenol        | 10.347 | 162  | 67359    | 19.435 | ng/u1  | 94       |
| 30) Naphthalene               | 10.746 | 128  | 238201   | 19.144 | ng/u1  | 99       |
| 32) 4-Chloroaniline           | 10.858 | 127  | 101497   | 18.760 | ng/u1  | 99       |
| 33) Hexachlorobutadiene       | 11.028 | 225  | 49498    | 19.973 | ng/u1  | 93       |
| 34) Caprolactam               | 11.604 | 113  | 24053m   | 16.709 | ng/u1  |          |
| 35) 4-Chloro-3-methylphenol   | 11.986 | 107  | 79985    | 18.134 | ng/u1  | 98       |
| 36) 2-Methylnaphthalene       | 12.356 | 142  | 158854   | 19.056 | ng/u1  | 100      |

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| 37) 1-Methylnaphthalene       | 12.573 | 142  | 159695   | 18.692 | ng/ul | 99       |
| 39) 1,2,4,5-Tetrachloroben... | 12.726 | 216  | 90361    | 19.304 | ng/ul | 99       |
| 40) Hexachlorocyclopentadiene | 12.703 | 237  | 61136    | 24.283 | ng/ul | 99       |
| 41) 2,4,6-Trichlorophenol     | 12.967 | 196  | 61205    | 19.315 | ng/ul | 98       |
| 42) 2,4,5-Trichlorophenol     | 13.037 | 196  | 63191    | 18.701 | ng/ul | 99       |
| 43) 1,1'-Biphenyl             | 13.367 | 154  | 211600   | 19.352 | ng/ul | 98       |
| 44) 2-Chloronaphthalene       | 13.408 | 162  | 166733   | 19.179 | ng/ul | 97       |
| 45) 2-Nitroaniline            | 13.613 | 65   | 56961    | 18.863 | ng/ul | 97       |
| 47) Dimethylphthalate         | 13.983 | 163  | 224984   | 17.963 | ng/ul | 100      |
| 48) 2,6-Dinitrotoluene        | 14.107 | 165  | 46110    | 19.051 | ng/ul | 99       |
| 50) Acenaphthylene            | 14.254 | 152  | 267725   | 18.980 | ng/ul | 99       |
| 51) 3-Nitroaniline            | 14.442 | 138  | 32550    | 16.138 | ng/ul | 88       |
| 52) Acenaphthene              | 14.595 | 153  | 182858   | 18.672 | ng/ul | 98       |
| 53) 2,4-Dinitrophenol         | 14.647 | 184  | 28610    | 22.211 | ng/ul | 95       |
| 55) 4-Nitrophenol             | 14.753 | 109  | 25514    | 17.592 | ng/ul | 92       |
| 56) Dibenzofuran              | 14.929 | 168  | 262794   | 18.846 | ng/ul | 99       |
| 57) 2,4-Dinitrotoluene        | 14.894 | 165  | 65488    | 18.760 | ng/ul | 87       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.159 | 232  | 57797    | 18.514 | ng/ul | 97       |
| 59) Diethylphthalate          | 15.347 | 149  | 227056   | 17.597 | ng/ul | 99       |
| 61) Fluorene                  | 15.582 | 166  | 210398   | 18.399 | ng/ul | 99       |
| 62) 4-Chlorophenyl-phenyle... | 15.570 | 204  | 113510   | 18.698 | ng/ul | 99       |
| 63) 4-Nitroaniline            | 15.599 | 138  | 29451m   | 16.137 | ng/ul |          |
| 66) 4,6-Dinitro-2-methylph... | 15.658 | 198  | 37819    | 18.529 | ng/ul | 98       |
| 67) N-Nitrosodiphenylamine    | 15.787 | 169  | 180476   | 18.698 | ng/ul | 99       |
| 68) 4-Bromophenyl-phenylether | 16.463 | 248  | 74695    | 18.110 | ng/ul | 95       |
| 69) Hexachlorobenzene         | 16.586 | 284  | 84218    | 18.096 | ng/ul | 98       |
| 70) Atrazine                  | 16.733 | 200  | 70256    | 18.565 | ng/ul | 96       |
| 71) Pentachlorophenol         | 16.927 | 266  | 48666    | 18.629 | ng/ul | 96       |
| 72) Phenanthrene              | 17.321 | 178  | 342108   | 18.488 | ng/ul | 99       |
| 74) Anthracene                | 17.409 | 178  | 338479   | 18.220 | ng/ul | 98       |
| 75) 1,2,3,4-Tetrachloroben... | 13.331 | 216  | 93761    | 19.197 | ng/uL | 98       |
| 76) Pentachlorobenzene        | 14.853 | 250  | 100005   | 18.724 | ng/uL | 98       |
| 77) Carbazole                 | 17.679 | 167  | 315339   | 19.582 | ng/ul | 99       |
| 78) Di-n-butylphthalate       | 18.231 | 149  | 392785   | 19.195 | ng/ul | 98       |
| 80) Fluoranthene              | 19.330 | 202  | 414365   | 18.563 | ng/ul | 99       |
| 82) Pyrene                    | 19.694 | 202  | 421898   | 18.654 | ng/ul | 99       |
| 83) Butylbenzylphthalate      | 20.576 | 149  | 170070   | 19.096 | ng/ul | 98       |
| 84) 3,3'-Dichlorobenzidine    | 21.428 | 252  | 131663   | 17.879 | ng/ul | 98       |
| 85) Benzo(a)anthracene        | 21.510 | 228  | 404846   | 18.258 | ng/ul | 98       |
| 86) Bis(2-ethylhexyl)phtha... | 21.410 | 149  | 243407   | 19.215 | ng/ul | 99       |
| 87) Chrysene                  | 21.575 | 228  | 381853   | 18.155 | ng/ul | 99       |
| 89) Di-n-octyl phthalate      | 22.585 | 149  | 420252   | 19.704 | ng/ul | 100      |
| 90) Benzo(b)fluoranthene      | 23.666 | 252  | 412224   | 17.774 | ng/ul | 99       |
| 91) Benzo(k)fluoranthene      | 23.731 | 252  | 414579   | 17.923 | ng/ul | 98       |
| 93) Benzo(a)pyrene            | 24.512 | 252  | 369899   | 17.932 | ng/ul | 99       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.231 | 276  | 483411   | 17.787 | ng/ul | 100      |
| 95) Dibenzo(a,h)anthracene    | 28.290 | 278  | 398895   | 17.898 | ng/ul | 98       |
| 96) Benzo(g,h,i)perylene      | 29.354 | 276  | 393148   | 17.755 | ng/ul | 99       |

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

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## Instrument :

BNA\_G

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SSTD020531

## Manual Integrations

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Reviewed By :Yogesh Patel 07/22/2023

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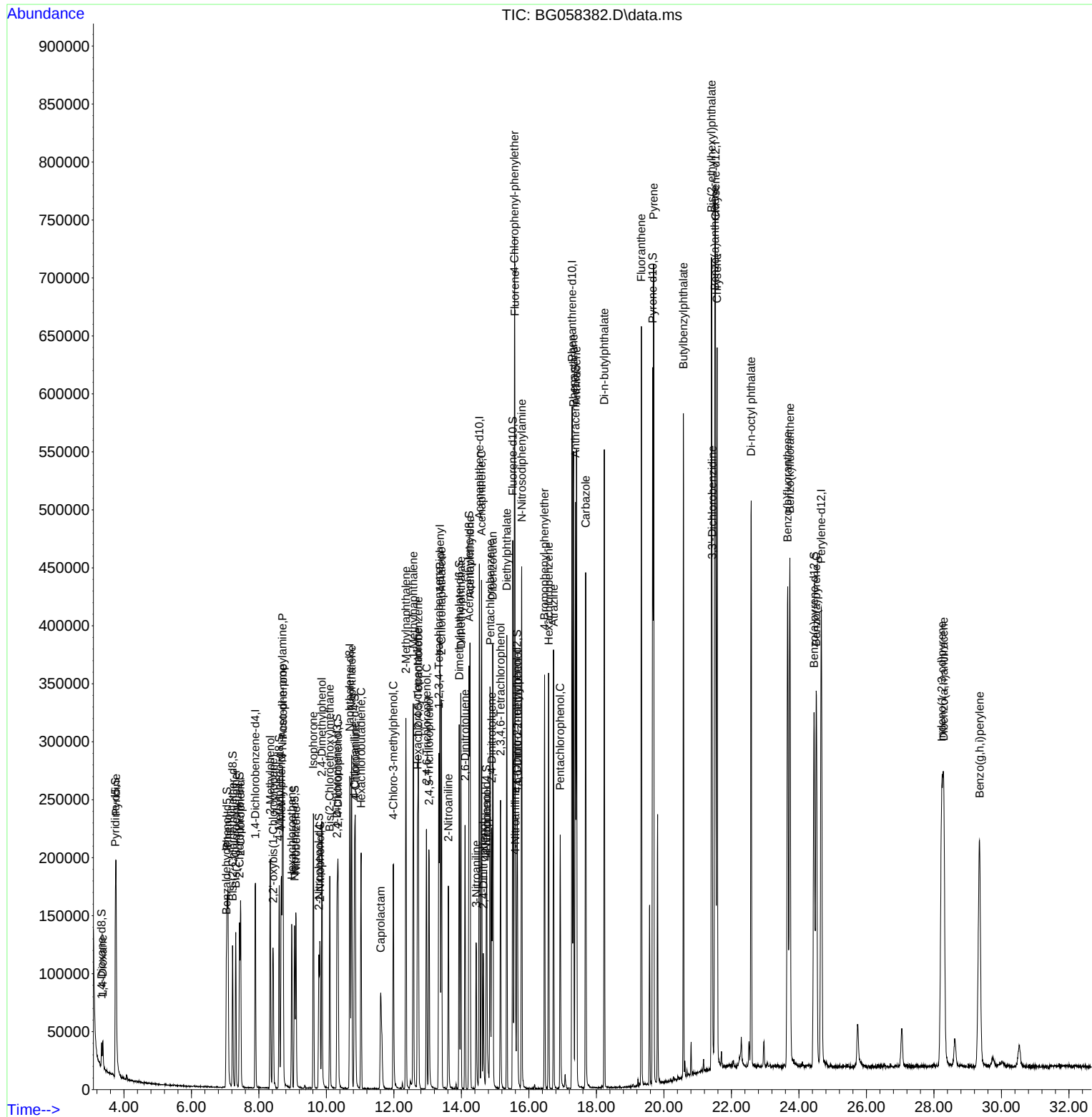
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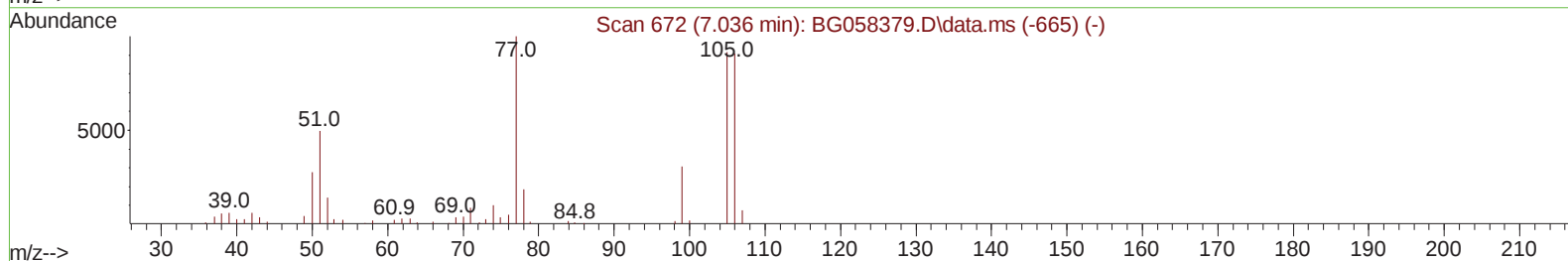
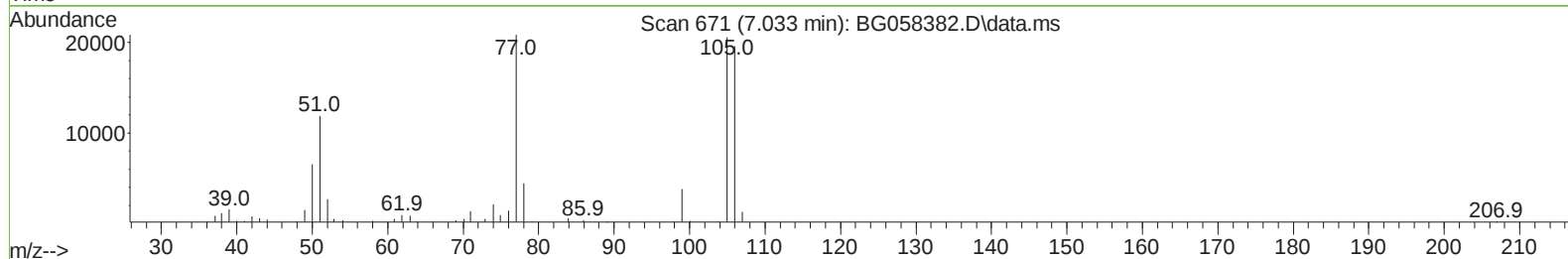
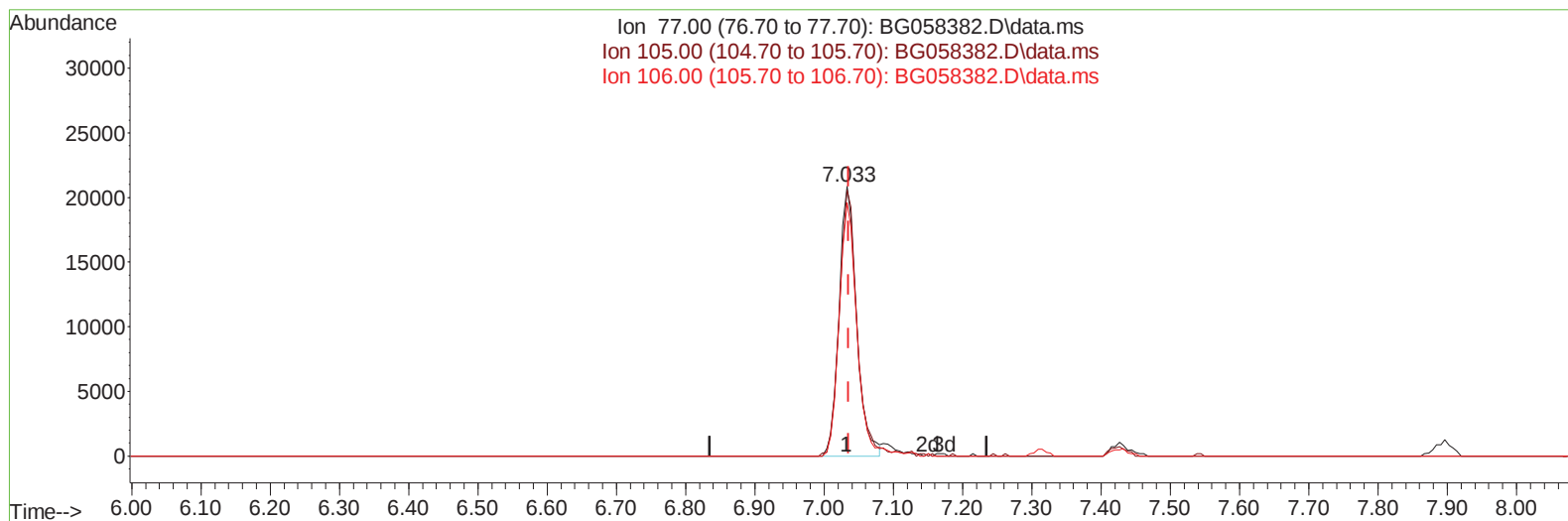
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Manual Integrations  
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Quant Time: Jul 21 11:44:47 2023  
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TIC: BG058382.D\data.ms

(6) Benzaldehyde

7.033min (-0.002) 18.52 ng/u1

response 36646

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 77.00  | 100.00 | 100.00 |
| 105.00 | 97.80  | 98.73  |
| 106.00 | 89.50  | 94.01  |
| 0.00   | 0.00   | 0.00   |

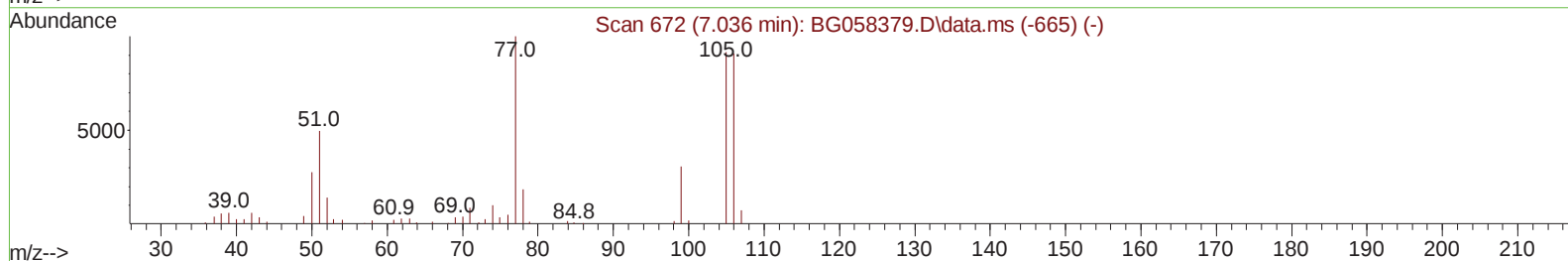
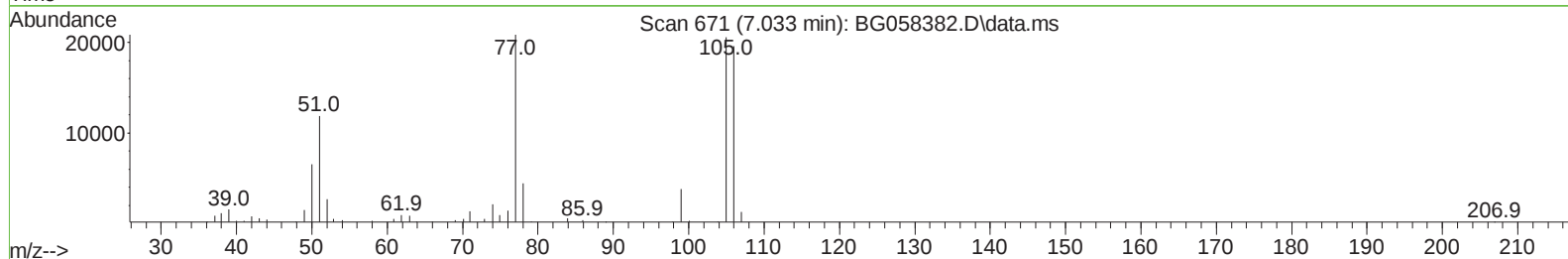
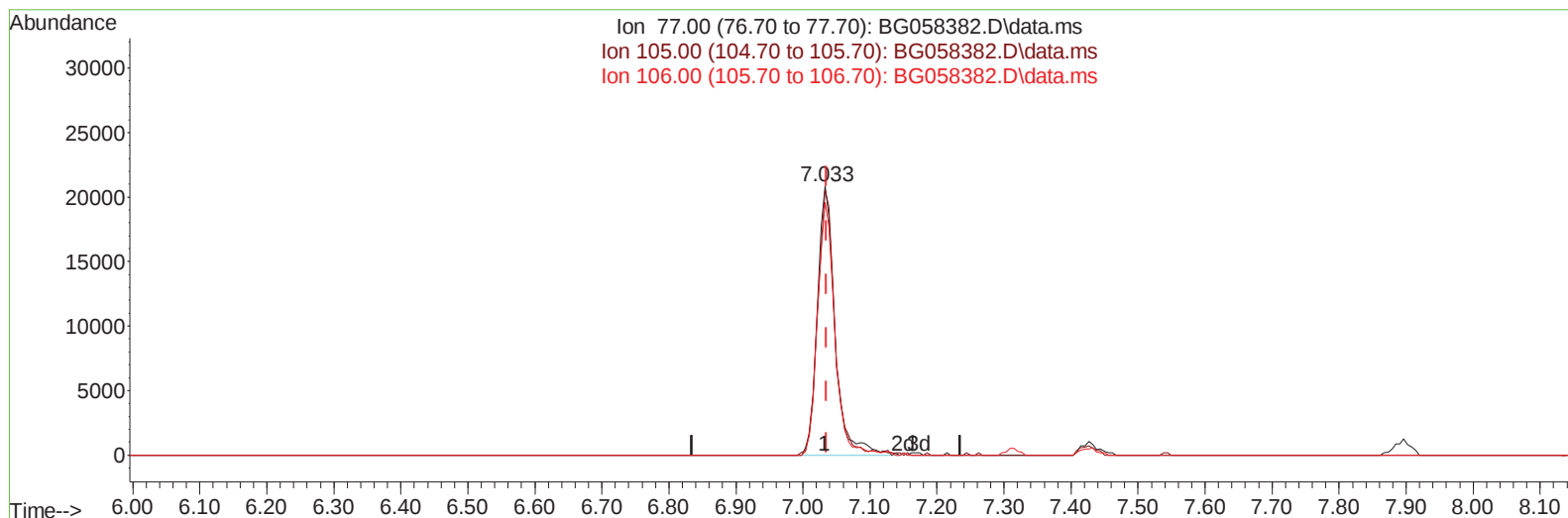
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(6) Benzaldehyde

7.033min (-0.002) 19.33 ng/ul m

response 38249

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 77.00  | 100.00 | 100.00 |
| 105.00 | 97.80  | 98.73  |
| 106.00 | 89.50  | 94.01  |
| 0.00   | 0.00   | 0.00   |

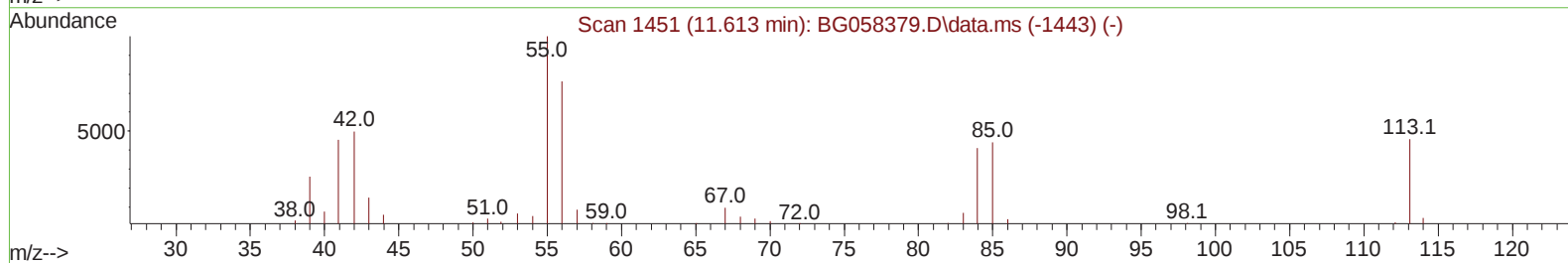
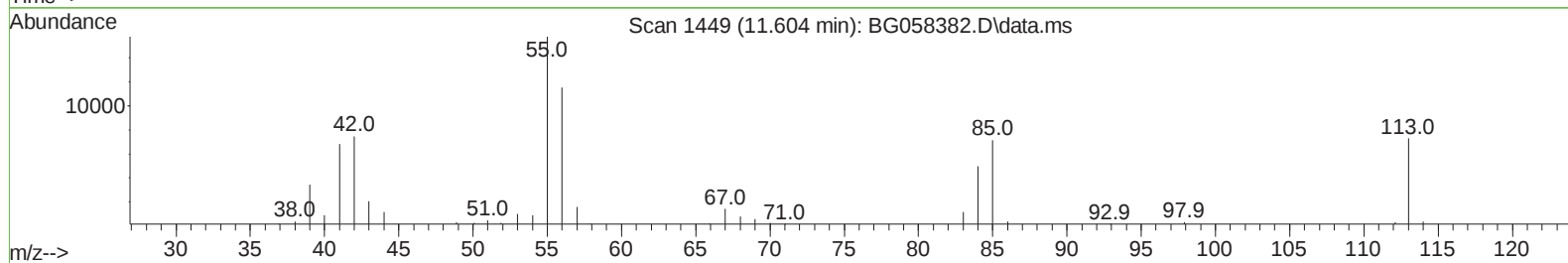
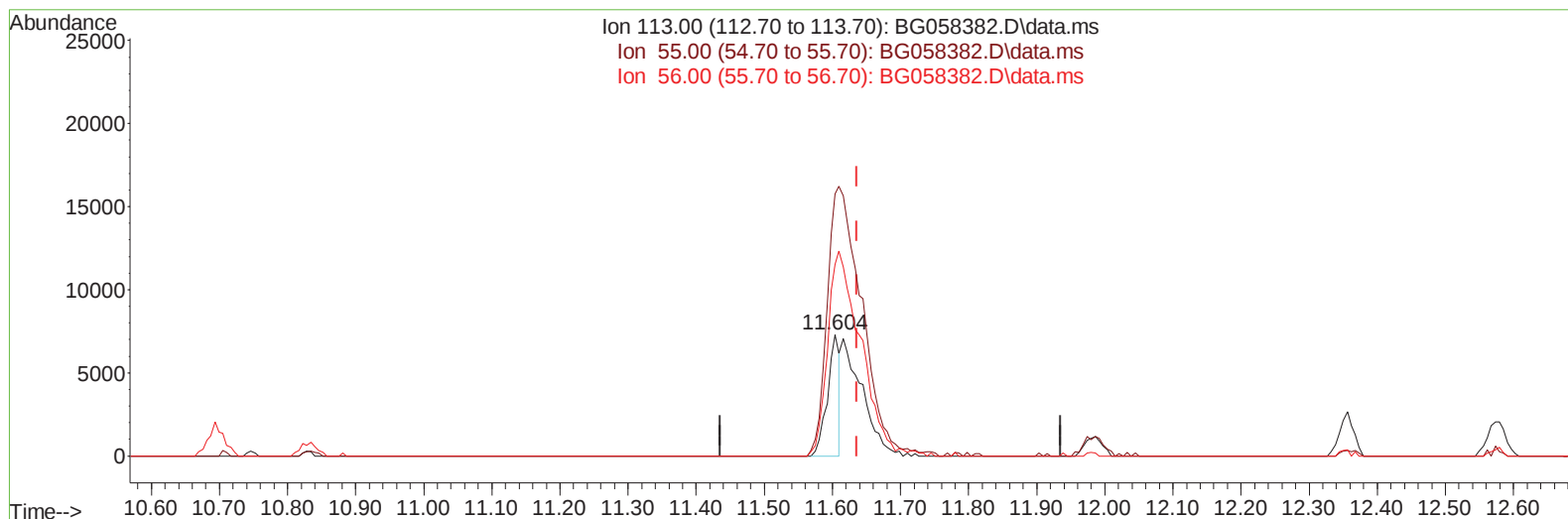
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(34) Caprolactam

11.604min (-0.032) 6.38 ng/ul

response 9183

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100.00 | 100.00 |
| 55.00  | 224.70 | 216.08 |
| 56.00  | 165.30 | 158.08 |
| 0.00   | 0.00   | 0.00   |

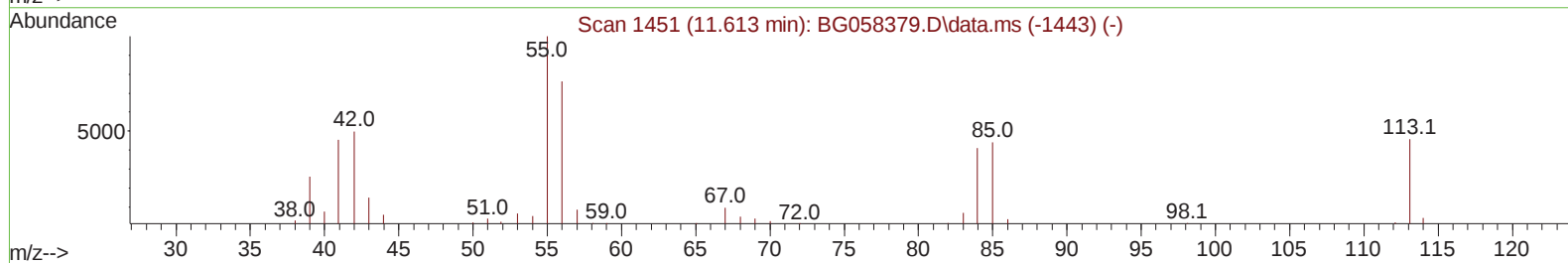
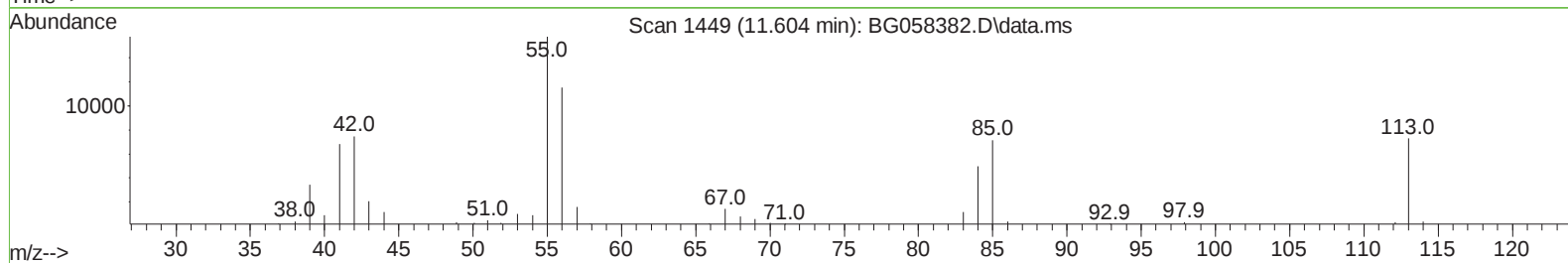
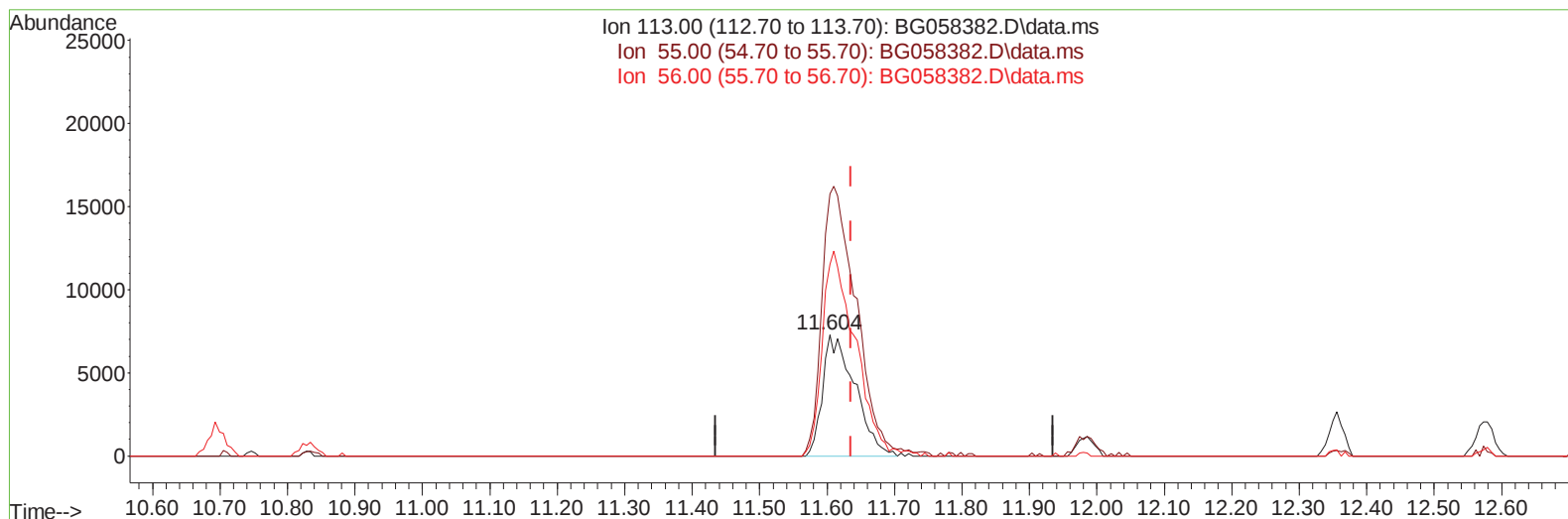
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TIC: BG058382.D\data.ms

(34) Caprolactam

11.604min (-0.032) 16.71 ng/ul m

response 24053

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 113.00 | 100.00 | 100.00 |
| 55.00  | 224.70 | 216.08 |
| 56.00  | 165.30 | 158.08 |
| 0.00   | 0.00   | 0.00   |

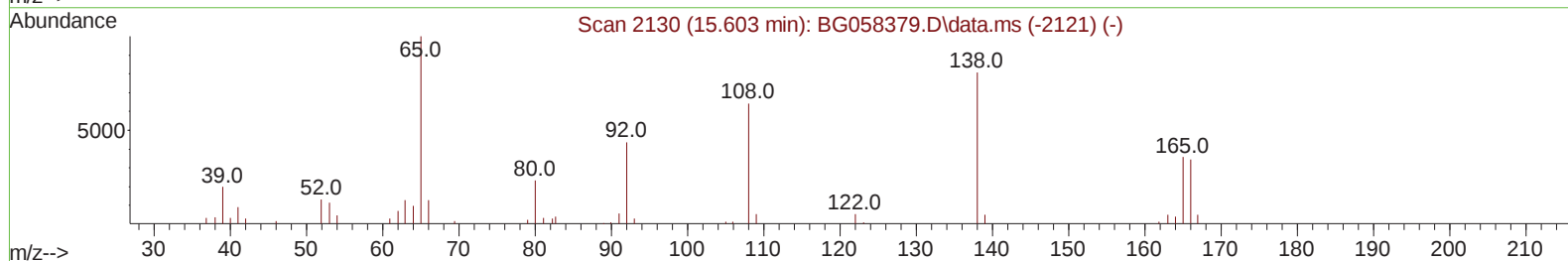
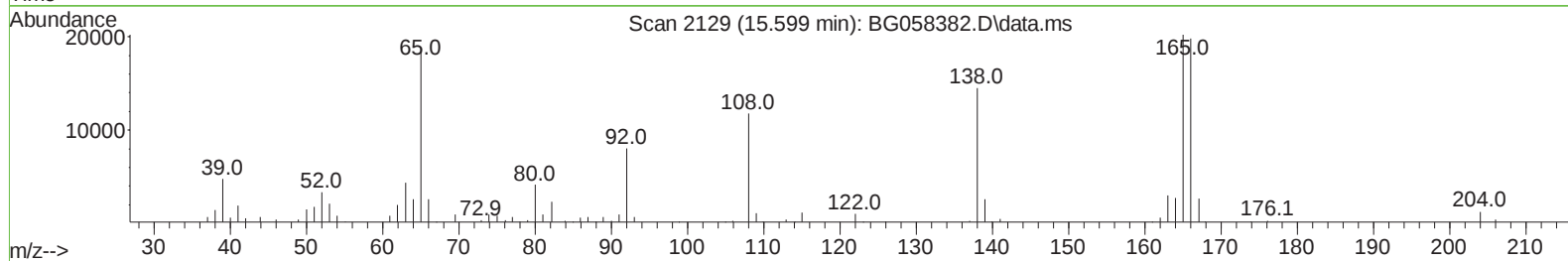
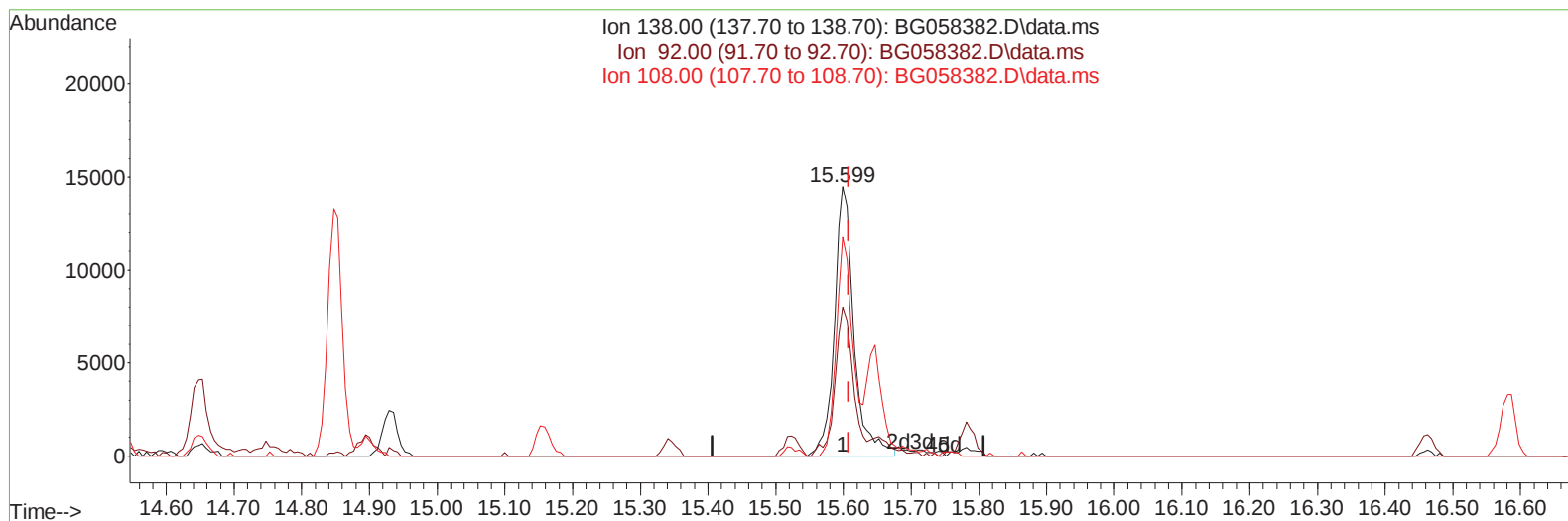
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(63) 4-Nitroaniline

15.599min (-0.008) 15.81 ng/ul

response 28852

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 138.00 | 100.00 | 100.00 |
| 92.00  | 56.20  | 55.32  |
| 108.00 | 76.00  | 81.23  |
| 0.00   | 0.00   | 0.00   |

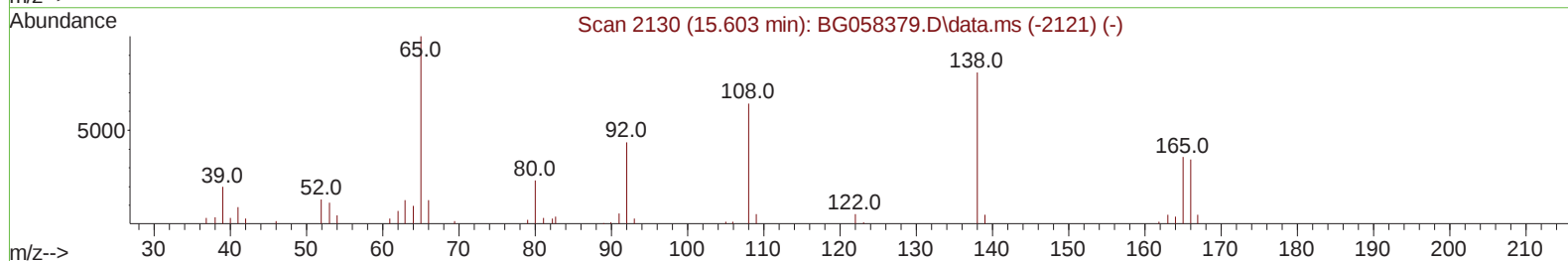
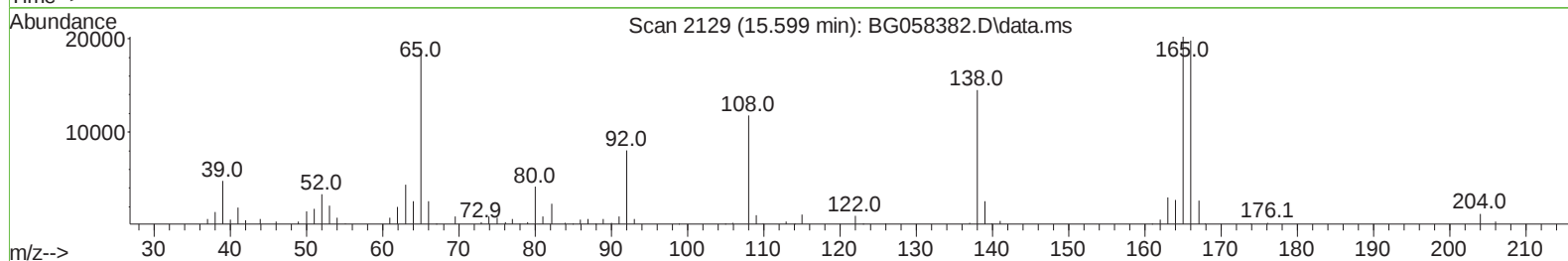
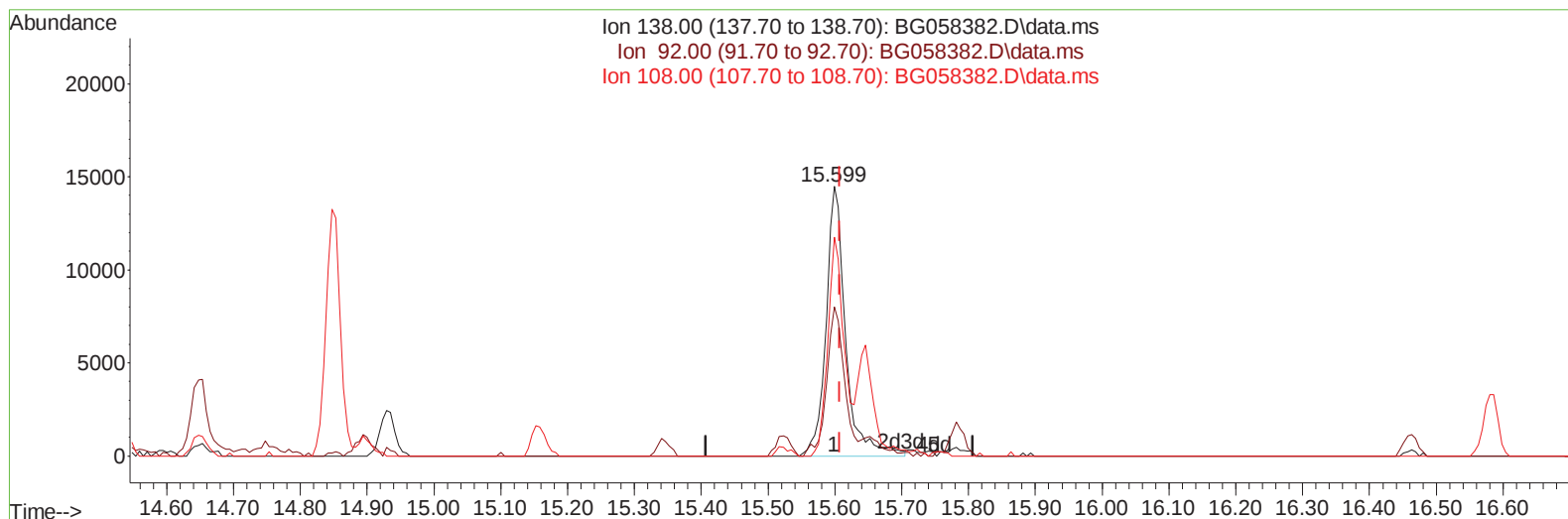
Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG072123\  
 Data File : BG058382.D  
 Acq On : 21 Jul 2023 11:07  
 Operator : CG/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD020531

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 07/22/2023  
 Supervised By :mohammad ahmed 07/22/2023

Quant Time: Jul 21 11:44:47 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG071723.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jul 18 02:19:39 2023  
 Response via : Initial Calibration



TIC: BG058382.D\data.ms

(63) 4-Nitroaniline

15.599min (-0.008) 16.14 ng/ul m

response 29451

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 138.00 | 100.00 | 100.00 |
| 92.00  | 56.20  | 55.32  |
| 108.00 | 76.00  | 81.23  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG072123\  
 Data File : BG058382.D  
 Acq On : 21 Jul 2023 11:07  
 Operator : CG/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

**Instrument :**

BNA\_G

**ClientSampleId :**

SSTD020531

**Manual Integrations****APPROVED**

Reviewed By :Yogesh Patel 07/22/2023

Supervised By :mohammad ahmed 07/22/2023

Quant Time: Jul 21 11:45:50 2023

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG071723.MA.M

Quant Title : SVOA CALIBRATION

QLast Update : Tue Jul 18 02:19:39 2023

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.896  | 152  | 51644    | 20.000 | ng/ul  | 0.00     |
| 20) Naphthalene-d8            | 10.693 | 136  | 232782   | 20.000 | ng/ul  | 0.00     |
| 38) Acenaphthene-d10          | 14.530 | 164  | 161702   | 20.000 | ng/ul  | 0.00     |
| 64) Phenanthrene-d10          | 17.280 | 188  | 389390   | 20.000 | ng/ul  | 0.00     |
| 79) Chrysene-d12              | 21.528 | 240  | 329896   | 20.000 | ng/ul  | 0.00     |
| 88) Perylene-d12              | 24.659 | 264  | 400845   | 20.000 | ng/ul  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.337  | 96   | 12202    | 8.696  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.748  | 84   | 82676    | 19.851 | ng/ul  | 0.00     |
| 7) Phenol-d5                  | 7.056  | 99   | 91930    | 18.765 | ng/ul  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.221  | 67   | 61334    | 20.030 | ng/ul  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.426  | 132  | 67673    | 19.733 | ng/ul  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.602  | 113  | 69300    | 18.545 | ng/ul  | 0.00     |
| 21) Nitrobenzene-d5           | 9.054  | 128  | 34214    | 19.609 | ng/ul  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.777  | 143  | 38292    | 20.102 | ng/ul  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.317 | 165  | 69507    | 19.035 | ng/ul  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.834 | 131  | 100648   | 19.013 | ng/ul  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.936 | 166  | 219163   | 17.576 | ng/ul  | 0.00     |
| 49) Acenaphthylene-d8         | 14.224 | 160  | 250678   | 19.184 | ng/ul  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.736 | 143  | 33509    | 17.794 | ng/ul  | 0.00     |
| 60) Fluorene-d10              | 15.523 | 176  | 190362   | 18.440 | ng/ul  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.646 | 200  | 36281    | 18.288 | ng/ul  | 0.00     |
| 73) Anthracene-d10            | 17.374 | 188  | 308885   | 18.359 | ng/ul  | 0.00     |
| 81) Pyrene-d10                | 19.665 | 212  | 358030   | 18.375 | ng/ul  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 24.448 | 264  | 342056   | 17.655 | ng/ul  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.372  | 88   | 12953    | 8.138  | ng/uL# | 90       |
| 5) Pyridine                   | 3.766  | 79   | 85983    | 19.550 | ng/ul  | 98       |
| 6) Benzaldehyde               | 7.033  | 77   | 38249m   | 19.332 | ng/ul  |          |
| 8) Phenol                     | 7.086  | 94   | 96865    | 19.039 | ng/ul  | 98       |
| 10) Bis(2-Chloroethyl)ether   | 7.315  | 93   | 77049    | 19.768 | ng/ul  | 98       |
| 12) 2-Chlorophenol            | 7.456  | 128  | 69715    | 19.421 | ng/ul  | 99       |
| 13) 2-Methylphenol            | 8.337  | 108  | 73500    | 18.536 | ng/ul  | 96       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.419  | 45   | 125584   | 19.662 | ng/ul  | 98       |
| 16) Acetophenone              | 8.713  | 105  | 119829   | 18.829 | ng/ul  | 98       |
| 17) N-Nitroso-di-n-propyla... | 8.696  | 70   | 63788    | 18.314 | ng/ul  | 96       |
| 18) 4-Methylphenol            | 8.666  | 108  | 80858    | 18.763 | ng/ul  | 97       |
| 19) Hexachloroethane          | 8.972  | 117  | 27450    | 19.400 | ng/ul  | 92       |
| 22) Nitrobenzene              | 9.101  | 77   | 91260    | 19.613 | ng/ul  | 98       |
| 23) Isophorone                | 9.612  | 82   | 188835   | 18.101 | ng/ul  | 98       |
| 25) 2-Nitrophenol             | 9.812  | 139  | 40429    | 19.870 | ng/ul  | 95       |
| 26) 2,4-Dimethylphenol        | 9.865  | 107  | 86269    | 19.015 | ng/ul  | 96       |
| 27) Bis(2-Chloroethoxy)met... | 10.100 | 93   | 105698   | 19.131 | ng/ul  | 98       |
| 29) 2,4-Dichlorophenol        | 10.347 | 162  | 67359    | 19.435 | ng/ul  | 94       |
| 30) Naphthalene               | 10.746 | 128  | 238201   | 19.144 | ng/ul  | 99       |
| 32) 4-Chloroaniline           | 10.858 | 127  | 101497   | 18.760 | ng/ul  | 99       |
| 33) Hexachlorobutadiene       | 11.028 | 225  | 49498    | 19.973 | ng/ul  | 93       |
| 34) Caprolactam               | 11.604 | 113  | 24053m   | 16.709 | ng/ul  |          |
| 35) 4-Chloro-3-methylphenol   | 11.986 | 107  | 79985    | 18.134 | ng/ul  | 98       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG072123\  
 Data File : BG058382.D  
 Acq On : 21 Jul 2023 11:07  
 Operator : CG/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD020531

Quant Time: Jul 21 11:45:50 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG071723.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jul 18 02:19:39 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

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 Supervised By :mohammad ahmed 07/22/2023

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 36) 2-Methylnaphthalene       | 12.356 | 142  | 158854   | 19.056 | ng/ul | 100      |
| 37) 1-Methylnaphthalene       | 12.573 | 142  | 159695   | 18.692 | ng/ul | 99       |
| 39) 1,2,4,5-Tetrachloroben... | 12.726 | 216  | 90361    | 19.304 | ng/ul | 99       |
| 40) Hexachlorocyclopentadiene | 12.703 | 237  | 61136    | 24.283 | ng/ul | 99       |
| 41) 2,4,6-Trichlorophenol     | 12.967 | 196  | 61205    | 19.315 | ng/ul | 98       |
| 42) 2,4,5-Trichlorophenol     | 13.037 | 196  | 63191    | 18.701 | ng/ul | 99       |
| 43) 1,1'-Biphenyl             | 13.367 | 154  | 211600   | 19.352 | ng/ul | 98       |
| 44) 2-Chloronaphthalene       | 13.408 | 162  | 166733   | 19.179 | ng/ul | 97       |
| 45) 2-Nitroaniline            | 13.613 | 65   | 56961    | 18.863 | ng/ul | 97       |
| 47) Dimethylphthalate         | 13.983 | 163  | 224984   | 17.963 | ng/ul | 100      |
| 48) 2,6-Dinitrotoluene        | 14.107 | 165  | 46110    | 19.051 | ng/ul | 99       |
| 50) Acenaphthylene            | 14.254 | 152  | 267725   | 18.980 | ng/ul | 99       |
| 51) 3-Nitroaniline            | 14.442 | 138  | 32550    | 16.138 | ng/ul | 88       |
| 52) Acenaphthene              | 14.595 | 153  | 182858   | 18.672 | ng/ul | 98       |
| 53) 2,4-Dinitrophenol         | 14.647 | 184  | 28610    | 22.211 | ng/ul | 95       |
| 55) 4-Nitrophenol             | 14.753 | 109  | 25514    | 17.592 | ng/ul | 92       |
| 56) Dibenzofuran              | 14.929 | 168  | 262794   | 18.846 | ng/ul | 99       |
| 57) 2,4-Dinitrotoluene        | 14.894 | 165  | 65488    | 18.760 | ng/ul | 87       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.159 | 232  | 57797    | 18.514 | ng/ul | 97       |
| 59) Diethylphthalate          | 15.347 | 149  | 227056   | 17.597 | ng/ul | 99       |
| 61) Fluorene                  | 15.582 | 166  | 210398   | 18.399 | ng/ul | 99       |
| 62) 4-Chlorophenyl-phenyle... | 15.570 | 204  | 113510   | 18.698 | ng/ul | 99       |
| 63) 4-Nitroaniline            | 15.599 | 138  | 29451m   | 16.137 | ng/ul |          |
| 66) 4,6-Dinitro-2-methylph... | 15.658 | 198  | 37819    | 18.529 | ng/ul | 98       |
| 67) N-Nitrosodiphenylamine    | 15.787 | 169  | 180476   | 18.698 | ng/ul | 99       |
| 68) 4-Bromophenyl-phenylether | 16.463 | 248  | 74695    | 18.110 | ng/ul | 95       |
| 69) Hexachlorobenzene         | 16.586 | 284  | 84218    | 18.096 | ng/ul | 98       |
| 70) Atrazine                  | 16.733 | 200  | 70256    | 18.565 | ng/ul | 96       |
| 71) Pentachlorophenol         | 16.927 | 266  | 48666    | 18.629 | ng/ul | 96       |
| 72) Phenanthrene              | 17.321 | 178  | 342108   | 18.488 | ng/ul | 99       |
| 74) Anthracene                | 17.409 | 178  | 338479   | 18.220 | ng/ul | 98       |
| 75) 1,2,3,4-Tetrachloroben... | 13.331 | 216  | 93761    | 19.197 | ng/uL | 98       |
| 76) Pentachlorobenzene        | 14.853 | 250  | 100005   | 18.724 | ng/uL | 98       |
| 77) Carbazole                 | 17.679 | 167  | 315339   | 19.582 | ng/ul | 99       |
| 78) Di-n-butylphthalate       | 18.231 | 149  | 392785   | 19.195 | ng/ul | 98       |
| 80) Fluoranthene              | 19.330 | 202  | 414365   | 18.563 | ng/ul | 99       |
| 82) Pyrene                    | 19.694 | 202  | 421898   | 18.654 | ng/ul | 99       |
| 83) Butylbenzylphthalate      | 20.576 | 149  | 170070   | 19.096 | ng/ul | 98       |
| 84) 3,3'-Dichlorobenzidine    | 21.428 | 252  | 131663   | 17.879 | ng/ul | 98       |
| 85) Benzo(a)anthracene        | 21.510 | 228  | 404846   | 18.258 | ng/ul | 98       |
| 86) Bis(2-ethylhexyl)phtha... | 21.410 | 149  | 243407   | 19.215 | ng/ul | 99       |
| 87) Chrysene                  | 21.575 | 228  | 381853   | 18.155 | ng/ul | 99       |
| 89) Di-n-octyl phthalate      | 22.585 | 149  | 420252   | 19.704 | ng/ul | 100      |
| 90) Benzo(b)fluoranthene      | 23.666 | 252  | 412224   | 17.774 | ng/ul | 99       |
| 91) Benzo(k)fluoranthene      | 23.731 | 252  | 414579   | 17.923 | ng/ul | 98       |
| 93) Benzo(a)pyrene            | 24.512 | 252  | 369899   | 17.932 | ng/ul | 99       |
| 94) Indeno(1,2,3-cd)pyrene    | 28.231 | 276  | 483411   | 17.787 | ng/ul | 100      |
| 95) Dibenzo(a,h)anthracene    | 28.290 | 278  | 398895   | 17.898 | ng/ul | 98       |
| 96) Benzo(g,h,i)perylene      | 29.354 | 276  | 393148   | 17.755 | ng/ul | 99       |

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

**Instrument :**

BNA\_G

**ClientSampleId :**

SSTD020531

**Manual Integrations**

**APPROVED**

Reviewed By :Yogesh Patel 07/22/2023

Supervised By :mohammad ahmed 07/22/2023

**Instrument :**  
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## Manual Integrations APPROVED

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