

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG010923\  
 Data File : BG056229.D  
 Acq On : 9 Jan 2023 10:47  
 Operator : CG/JU  
 Sample : N4239-01  
 Misc : SFAM-MDL-W-01-4PPM  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 MDL-WATER-QT3-2022-05

Quant Time: Jan 09 11:27:25 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG010423.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jan 05 01:03:13 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 01/10/2023  
 Supervised By :mohammad ahmed 01/12/2023

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.326  | 152  | 48125    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 11.164 | 136  | 191434   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.941 | 164  | 156279   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.679 | 188  | 386297   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.980 | 240  | 376568   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 25.441 | 264  | 396509   | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.625  | 96   | 4376     | 4.118  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 4.066  | 84   | 43472    | 12.807 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.456  | 99   | 73196    | 17.240 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.632  | 67   | 33724    | 19.371 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.850  | 132  | 51638    | 18.177 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 9.019  | 113  | 58800    | 17.381 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.501  | 128  | 26595    | 17.593 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 10.229 | 143  | 34989    | 17.699 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.770 | 165  | 68349    | 17.344 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 11.287 | 131  | 75859    | 17.106 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 14.330 | 166  | 219027   | 17.663 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.642 | 160  | 246431   | 18.091 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 15.106 | 143  | 29775    | 15.211 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.929 | 176  | 206636   | 17.840 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 16.028 | 200  | 40510    | 14.926 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.779 | 188  | 323433   | 18.216 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 20.041 | 212  | 394271   | 17.895 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 25.200 | 264  | 368863   | 18.141 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.672  | 88   | 1663m    | 1.404  | ng/uL  |          |
| 5) Pyridine                   | 4.089  | 79   | 13123    | 3.949  | ng/u1# | 88       |
| 6) Benzaldehyde               | 7.462  | 77   | 8286     | 5.563  | ng/u1  | 88       |
| 8) Phenol                     | 7.485  | 94   | 17729    | 4.229  | ng/u1  | 97       |
| 10) Bis(2-Chloroethyl)ether   | 7.732  | 93   | 12461    | 4.293  | ng/u1  | 95       |
| 12) 2-Chlorophenol            | 7.885  | 128  | 12108    | 4.335  | ng/u1  | 93       |
| 13) 2-Methylphenol            | 8.760  | 108  | 13323    | 4.136  | ng/u1  | 98       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.843  | 45   | 2484     | 4.708  | ng/u1# | 57       |
| 16) Acetophenone              | 9.154  | 105  | 21671    | 4.163  | ng/u1  | 97       |
| 17) N-Nitroso-di-n-propyla... | 9.131  | 70   | 9744     | 4.226  | ng/u1# | 89       |
| 18) 4-Methylphenol            | 9.089  | 108  | 14630    | 4.182  | ng/u1# | 77       |
| 19) Hexachloroethane          | 9.430  | 117  | 4892     | 4.500  | ng/u1  | 94       |
| 22) Nitrobenzene              | 9.542  | 77   | 15256    | 4.444  | ng/u1# | 98       |
| 23) Isophorone                | 10.065 | 82   | 28422    | 3.928  | ng/u1  | 99       |
| 25) 2-Nitrophenol             | 10.259 | 139  | 8035     | 4.212  | ng/u1# | 86       |
| 26) 2,4-Dimethylphenol        | 10.306 | 107  | 16536    | 4.232  | ng/u1  | 91       |
| 27) Bis(2-Chloroethoxy)met... | 10.541 | 93   | 17855    | 4.405  | ng/u1# | 88       |
| 29) 2,4-Dichlorophenol        | 10.793 | 162  | 14997    | 4.036  | ng/u1  | 97       |
| 30) Naphthalene               | 11.216 | 128  | 44179    | 4.409  | ng/u1  | 98       |
| 32) 4-Chloroaniline           | 11.310 | 127  | 18419    | 4.065  | ng/u1  | 100      |
| 33) Hexachlorobutadiene       | 11.493 | 225  | 14198    | 4.455  | ng/u1  | 96       |
| 34) Caprolactam               | 12.051 | 113  | 4476     | 3.839  | ng/u1  | 95       |
| 35) 4-Chloro-3-methylphenol   | 12.403 | 107  | 13644    | 3.743  | ng/u1# | 91       |
| 36) 2-Methylnaphthalene       | 12.791 | 142  | 32134    | 4.199  | ng/u1  | 99       |

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Manual Integrations  
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| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 37) 1-Methylnaphthalene       | 13.014 | 142  | 30483    | 3.873 | ng/ul  | 96       |
| 39) 1,2,4,5-Tetrachloroben... | 13.155 | 216  | 27315    | 4.515 | ng/ul  | 99       |
| 40) Hexachlorocyclopentadiene | 13.132 | 237  | 14507    | 3.527 | ng/ul  | 98       |
| 41) 2,4,6-Trichlorophenol     | 13.384 | 196  | 15453    | 4.023 | ng/ul  | 96       |
| 42) 2,4,5-Trichlorophenol     | 13.449 | 196  | 16826    | 4.028 | ng/ul  | 92       |
| 43) 1,1'-Biphenyl             | 13.778 | 154  | 49034    | 4.359 | ng/ul  | 97       |
| 44) 2-Chloronaphthalene       | 13.831 | 162  | 38864    | 4.213 | ng/ul  | 95       |
| 45) 2-Nitroaniline            | 14.019 | 65   | 6342     | 3.602 | ng/ul  | 93       |
| 47) Dimethylphthalate         | 14.377 | 163  | 50509    | 4.121 | ng/ul  | 97       |
| 48) 2,6-Dinitrotoluene        | 14.501 | 165  | 10157    | 3.947 | ng/ul# | 97       |
| 50) Acenaphthylene            | 14.665 | 152  | 59238    | 4.293 | ng/ul  | 99       |
| 51) 3-Nitroaniline            | 14.830 | 138  | 8938     | 4.586 | ng/ul# | 93       |
| 52) Acenaphthene              | 15.006 | 153  | 40765    | 4.270 | ng/ul  | 88       |
| 53) 2,4-Dinitrophenol         | 15.035 | 184  | 5941     | 3.228 | ng/ul# | 85       |
| 55) 4-Nitrophenol             | 15.118 | 109  | 6125     | 3.345 | ng/ul  | 91       |
| 56) Dibenzofuran              | 15.335 | 168  | 64622    | 4.378 | ng/ul  | 96       |
| 57) 2,4-Dinitrotoluene        | 15.288 | 165  | 14258    | 3.888 | ng/ul# | 97       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.558 | 232  | 14793    | 3.657 | ng/ul# | 92       |
| 59) Diethylphthalate          | 15.723 | 149  | 46332    | 4.066 | ng/ul  | 95       |
| 61) Fluorene                  | 15.981 | 166  | 50992    | 4.290 | ng/ul  | 94       |
| 62) 4-Chlorophenyl-phenyle... | 15.964 | 204  | 31441    | 4.230 | ng/ul  | 92       |
| 63) 4-Nitroaniline            | 15.987 | 138  | 8341     | 4.678 | ng/ul  | 99       |
| 66) 4,6-Dinitro-2-methylph... | 16.046 | 198  | 10834    | 4.182 | ng/ul# | 98       |
| 67) N-Nitrosodiphenylamine    | 16.175 | 169  | 44919    | 4.357 | ng/ul  | 98       |
| 68) 4-Bromophenyl-phenylether | 16.857 | 248  | 20391    | 4.115 | ng/ul# | 85       |
| 69) Hexachlorobenzene         | 16.986 | 284  | 20968    | 4.274 | ng/ul  | 95       |
| 70) Atrazine                  | 17.104 | 200  | 20332    | 4.327 | ng/ul  | 95       |
| 71) Pentachlorophenol         | 17.327 | 266  | 9821m    | 3.138 | ng/ul  |          |
| 72) Phenanthrene              | 17.721 | 178  | 85932    | 4.363 | ng/ul  | 99       |
| 74) Anthracene                | 17.815 | 178  | 86382    | 4.320 | ng/ul  | 100      |
| 75) 1,2,3,4-Tetrachloroben... | 13.749 | 216  | 25201    | 4.328 | ng/uL  | 99       |
| 76) Pentachlorobenzene        | 15.259 | 250  | 24643    | 4.137 | ng/uL  | 94       |
| 77) Carbazole                 | 18.073 | 167  | 70325    | 4.284 | ng/ul  | 99       |
| 78) Di-n-butylphthalate       | 18.608 | 149  | 71847    | 4.148 | ng/ul  | 98       |
| 80) Fluoranthene              | 19.712 | 202  | 109524   | 4.203 | ng/ul  | 98       |
| 82) Pyrene                    | 20.071 | 202  | 109230   | 4.192 | ng/ul  | 98       |
| 83) Butylbenzylphthalate      | 20.934 | 149  | 30206    | 3.952 | ng/ul  | 97       |
| 84) 3,3'-Dichlorobenzidine    | 21.857 | 252  | 42423    | 4.764 | ng/ul  | 100      |
| 85) Benzo(a)anthracene        | 21.957 | 228  | 110902   | 4.271 | ng/ul  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 21.822 | 149  | 44678    | 4.043 | ng/ul  | 98       |
| 87) Chrysene                  | 22.027 | 228  | 103402   | 4.282 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 23.108 | 149  | 77042    | 4.232 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 24.325 | 252  | 116935   | 4.417 | ng/ul  | 99       |
| 91) Benzo(k)fluoranthene      | 24.395 | 252  | 110917   | 4.282 | ng/ul  | 99       |
| 93) Benzo(a)pyrene            | 25.270 | 252  | 102668   | 4.430 | ng/ul# | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 29.407 | 276  | 126380   | 4.145 | ng/ul  | 99       |
| 95) Dibenzo(a,h)anthracene    | 29.477 | 278  | 109840   | 4.311 | ng/ul# | 98       |
| 96) Benzo(g,h,i)perylene      | 30.658 | 276  | 107579   | 4.365 | ng/ul  | 98       |

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

