

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG091023\  
 Data File : BG058982.D  
 Acq On : 11 Sep 2023 14:05  
 Operator : MA/JU  
 Sample : 04195-06MS  
 Misc :  
 ALS Vial : 81 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 YBY19MS

Quant Time: Sep 12 01:13:49 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_G\Methods\SFAM-EPA-BG091023.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Sep 11 00:07:05 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 09/12/2023  
 Supervised By :mohammad ahmed 09/13/2023

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.324  | 152  | 97665    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 11.167 | 136  | 454588   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.951 | 164  | 324934   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.701 | 188  | 815458   | 20.000 | ng/u1  | # 0.00   |
| 79) Chrysene-d12              | 22.025 | 240  | 744611   | 20.000 | ng/u1  | # 0.00   |
| 88) Perylene-d12              | 25.592 | 264  | 870332   | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.641  | 96   | 4243m    | 1.847  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 4.076  | 84   | 10803    | 1.485  | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.436  | 99   | 156344   | 15.875 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.642  | 67   | 100640   | 17.427 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.836  | 132  | 102429   | 16.216 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 9.005  | 113  | 111824   | 14.697 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.522  | 128  | 58687    | 17.798 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 10.245 | 143  | 49257    | 13.614 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.762 | 165  | 125405   | 16.308 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 11.308 | 131  | 42847    | 4.144  | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 14.346 | 166  | 309612   | 12.284 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.652 | 160  | 507950   | 18.098 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 15.122 | 143  | 45498    | 10.867 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.938 | 176  | 434127   | 19.408 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 16.044 | 200  | 49677    | 12.411 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.801 | 188  | 702019   | 19.393 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 20.069 | 212  | 819258   | 20.770 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 25.339 | 264  | 781636   | 18.321 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.676  | 88   | 34714    | 11.725 | ng/uL  | 90       |
| 5) Pyridine                   | 4.093  | 79   | 229285   | 29.518 | ng/u1  | 93       |
| 6) Benzaldehyde               | 7.472  | 77   | 181625   | 30.156 | ng/u1  | 89       |
| 8) Phenol                     | 7.466  | 94   | 362727   | 34.634 | ng/u1  | 97       |
| 10) Bis(2-Chloroethyl)ether   | 7.742  | 93   | 248981   | 32.527 | ng/u1  | 96       |
| 12) 2-Chlorophenol            | 7.871  | 128  | 225886   | 34.597 | ng/u1  | 94       |
| 13) 2-Methylphenol            | 8.741  | 108  | 254884   | 32.321 | ng/u1  | 95       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.847  | 45   | 290678m  | 31.624 | ng/u1  |          |
| 16) Acetophenone              | 9.170  | 105  | 404944   | 32.100 | ng/u1  | 94       |
| 17) N-Nitroso-di-n-propyla... | 9.134  | 70   | 217971   | 30.824 | ng/u1# | 97       |
| 18) 4-Methylphenol            | 9.076  | 108  | 285860   | 33.192 | ng/u1  | 96       |
| 19) Hexachloroethane          | 9.411  | 117  | 91540    | 33.453 | ng/u1  | 92       |
| 22) Nitrobenzene              | 9.563  | 77   | 306695   | 31.069 | ng/u1# | 89       |
| 23) Isophorone                | 10.075 | 82   | 661225   | 31.534 | ng/u1  | 99       |
| 25) 2-Nitrophenol             | 10.274 | 139  | 126364   | 34.252 | ng/u1  | 94       |
| 26) 2,4-Dimethylphenol        | 10.292 | 107  | 301394   | 32.964 | ng/u1  | 94       |
| 27) Bis(2-Chloroethoxy)met... | 10.556 | 93   | 357818   | 31.839 | ng/u1  | 95       |
| 29) 2,4-Dichlorophenol        | 10.791 | 162  | 245956   | 33.764 | ng/u1  | 97       |
| 30) Naphthalene               | 11.220 | 128  | 777622   | 32.452 | ng/u1  | 100      |
| 32) 4-Chloroaniline           | 11.338 | 127  | 275047   | 27.704 | ng/u1  | 97       |
| 33) Hexachlorobutadiene       | 11.449 | 225  | 174873   | 30.681 | ng/u1  | 93       |
| 34) Caprolactam               | 12.119 | 113  | 94382m   | 36.508 | ng/u1  |          |
| 35) 4-Chloro-3-methylphenol   | 12.401 | 107  | 303251   | 33.883 | ng/u1  | 93       |
| 36) 2-Methylnaphthalene       | 12.801 | 142  | 543509   | 30.397 | ng/u1  | 96       |

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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 37) 1-Methylnaphthalene       | 13.018 | 142  | 521094   | 29.546 | ng/ul  | 98       |
| 39) 1,2,4,5-Tetrachloroben... | 13.142 | 216  | 319245   | 30.099 | ng/ul# | 95       |
| 40) Hexachlorocyclopentadiene | 13.095 | 237  | 191924   | 24.591 | ng/ul  | 93       |
| 41) 2,4,6-Trichlorophenol     | 13.377 | 196  | 216712   | 32.184 | ng/ul  | 97       |
| 42) 2,4,5-Trichlorophenol     | 13.447 | 196  | 235112   | 32.252 | ng/ul  | 93       |
| 43) 1,1'-Biphenyl             | 13.788 | 154  | 772747   | 31.815 | ng/ul# | 98       |
| 44) 2-Chloronaphthalene       | 13.841 | 162  | 596848   | 32.173 | ng/ul  | 97       |
| 45) 2-Nitroaniline            | 14.052 | 65   | 201114   | 35.349 | ng/ul# | 88       |
| 47) Dimethylphthalate         | 14.393 | 163  | 790806   | 33.183 | ng/ul  | 100      |
| 48) 2,6-Dinitrotoluene        | 14.534 | 165  | 165052   | 36.409 | ng/ul  | 95       |
| 50) Acenaphthylene            | 14.681 | 152  | 961205   | 31.412 | ng/ul  | 97       |
| 51) 3-Nitroaniline            | 14.875 | 138  | 166920   | 38.369 | ng/ul# | 88       |
| 52) Acenaphthene              | 15.016 | 153  | 659143   | 32.100 | ng/ul  | 98       |
| 53) 2,4-Dinitrophenol         | 15.063 | 184  | 95670    | 32.742 | ng/ul  | 95       |
| 55) 4-Nitrophenol             | 15.133 | 109  | 163000   | 32.998 | ng/ul  | 97       |
| 56) Dibenzofuran              | 15.345 | 168  | 969011   | 32.580 | ng/ul  | 99       |
| 57) 2,4-Dinitrotoluene        | 15.310 | 165  | 234461   | 37.482 | ng/ul# | 86       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.550 | 232  | 227065   | 32.609 | ng/ul# | 94       |
| 59) Diethylphthalate          | 15.738 | 149  | 792522   | 33.731 | ng/ul  | 98       |
| 61) Fluorene                  | 15.997 | 166  | 808694   | 33.082 | ng/ul  | 94       |
| 62) 4-Chlorophenyl-phenyle... | 15.979 | 204  | 411805   | 31.837 | ng/ul  | 99       |
| 63) 4-Nitroaniline            | 16.038 | 138  | 174873   | 42.414 | ng/ul# | 83       |
| 66) 4,6-Dinitro-2-methylph... | 16.056 | 198  | 145890   | 33.394 | ng/ul# | 97       |
| 67) N-Nitrosodiphenylamine    | 16.197 | 169  | 677502   | 31.520 | ng/ul  | 98       |
| 68) 4-Bromophenyl-phenylether | 16.872 | 248  | 281425   | 31.459 | ng/ul  | 89       |
| 69) Hexachlorobenzene         | 16.961 | 284  | 321144   | 31.271 | ng/ul  | 98       |
| 70) Atrazine                  | 17.131 | 200  | 204896   | 24.358 | ng/ul  | 97       |
| 71) Pentachlorophenol         | 17.319 | 266  | 200660   | 31.698 | ng/ul  | 93       |
| 72) Phenanthrene              | 17.742 | 178  | 1356614  | 32.779 | ng/ul  | 100      |
| 74) Anthracene                | 17.836 | 178  | 1357960  | 32.283 | ng/ul  | 96       |
| 75) 1,2,3,4-Tetrachloroben... | 13.741 | 216  | 34170    | 2.904  | ng/uL  | 91       |
| 76) Pentachlorobenzene        | 15.239 | 250  | 369490   | 32.493 | ng/uL  | 96       |
| 77) Carbazole                 | 18.106 | 167  | 1226167  | 34.810 | ng/ul  | 97       |
| 78) Di-n-butylphthalate       | 18.617 | 149  | 1365573  | 34.971 | ng/ul# | 97       |
| 80) Fluoranthene              | 19.734 | 202  | 1607009  | 35.084 | ng/ul# | 98       |
| 82) Pyrene                    | 20.098 | 202  | 1650723  | 34.665 | ng/ul  | 96       |
| 83) Butylbenzylphthalate      | 20.962 | 149  | 583759   | 38.794 | ng/ul  | 98       |
| 84) 3,3'-Dichlorobenzidine    | 21.914 | 252  | 549323   | 33.252 | ng/ul  | 94       |
| 85) Benzo(a)anthracene        | 22.002 | 228  | 1641185  | 32.866 | ng/ul  | 98       |
| 86) Bis(2-ethylhexyl)phtha... | 21.843 | 149  | 850840   | 37.754 | ng/ul  | 99       |
| 87) Chrysene                  | 22.078 | 228  | 1577059  | 33.973 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 23.177 | 149  | 1442734  | 36.035 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 24.434 | 252  | 1728117  | 33.332 | ng/ul  | 99       |
| 91) Benzo(k)fluoranthene      | 24.516 | 252  | 1706340  | 32.206 | ng/ul  | 97       |
| 93) Benzo(a)pyrene            | 25.427 | 252  | 1561244  | 32.275 | ng/ul  | 98       |
| 94) Indeno(1,2,3-cd)pyrene    | 29.734 | 276  | 2081185  | 34.051 | ng/ul  | 95       |
| 95) Dibenzo(a,h)anthracene    | 29.810 | 278  | 1690135  | 33.372 | ng/ul  | 99       |
| 96) Benzo(g,h,i)perylene      | 31.050 | 276  | 1723761  | 35.631 | ng/ul  | 96       |

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

