

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG091023\  
 Data File : BG058976.D  
 Acq On : 11 Sep 2023 9:59  
 Operator : MA/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 75 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 SSTD020552

Quant Time: Sep 12 01:03:16 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     | 8.325  | 152  | 61233    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 11.168 | 136  | 318469   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.952 | 164  | 241552   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.702 | 188  | 628434   | 20.000 | ng/u1  | # 0.00   |
| 79) Chrysene-d12              | 22.026 | 240  | 609964   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 25.593 | 264  | 692172   | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.636  | 96   | 13934    | 9.672  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 4.071  | 84   | 102773   | 22.533 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.431  | 99   | 121952   | 19.750 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.643  | 67   | 70749    | 19.540 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.843  | 132  | 80630    | 20.360 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 9.006  | 113  | 101227   | 21.219 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.517  | 128  | 43561    | 18.857 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 10.234 | 143  | 51550    | 20.337 | ng/u1  | -0.01    |
| 28) 2,4-Dichlorophenol-d3     | 10.763 | 165  | 102096   | 18.952 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 11.309 | 131  | 149431   | 20.627 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 14.347 | 166  | 363663   | 19.409 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.652 | 160  | 395000   | 18.931 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 15.117 | 143  | 66896    | 21.494 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.933 | 176  | 331752   | 19.951 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 16.039 | 200  | 61784    | 20.029 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.796 | 188  | 537810m  | 19.278 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 20.070 | 212  | 628213   | 19.443 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 25.340 | 264  | 661201   | 19.487 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.677  | 88   | 15995    | 8.617  | ng/uL# | 95       |
| 5) Pyridine                   | 4.094  | 79   | 103662   | 21.285 | ng/u1  | 94       |
| 6) Benzaldehyde               | 7.467  | 77   | 80985    | 21.447 | ng/u1# | 80       |
| 8) Phenol                     | 7.461  | 94   | 128190   | 19.522 | ng/u1  | 96       |
| 10) Bis(2-Chloroethyl)ether   | 7.743  | 93   | 95675    | 19.936 | ng/u1  | 98       |
| 12) 2-Chlorophenol            | 7.872  | 128  | 81809    | 19.985 | ng/u1  | 96       |
| 13) 2-Methylphenol            | 8.742  | 108  | 105560   | 21.350 | ng/u1  | 90       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.830  | 45   | 120063   | 20.834 | ng/u1  | 95       |
| 16) Acetophenone              | 9.165  | 105  | 168290   | 21.278 | ng/u1  | 94       |
| 17) N-Nitroso-di-n-propyla... | 9.129  | 70   | 93375    | 21.061 | ng/u1# | 96       |
| 18) 4-Methylphenol            | 9.071  | 108  | 113215   | 20.967 | ng/u1  | 99       |
| 19) Hexachloroethane          | 9.411  | 117  | 34724    | 20.240 | ng/u1# | 81       |
| 22) Nitrobenzene              | 9.564  | 77   | 133341   | 19.281 | ng/u1  | 91       |
| 23) Isophorone                | 10.070 | 82   | 288356   | 19.629 | ng/u1  | 97       |
| 25) 2-Nitrophenol             | 10.275 | 139  | 53003    | 20.507 | ng/u1  | 96       |
| 26) 2,4-Dimethylphenol        | 10.293 | 107  | 128967   | 20.134 | ng/u1  | 91       |
| 27) Bis(2-Chloroethoxy)met... | 10.557 | 93   | 147488   | 18.733 | ng/u1  | 96       |
| 29) 2,4-Dichlorophenol        | 10.792 | 162  | 98482    | 19.298 | ng/u1  | 96       |
| 30) Naphthalene               | 11.221 | 128  | 318243   | 18.957 | ng/u1  | 97       |
| 32) 4-Chloroaniline           | 11.333 | 127  | 141484   | 20.342 | ng/u1  | 100      |
| 33) Hexachlorobutadiene       | 11.456 | 225  | 67727    | 16.961 | ng/u1  | 98       |
| 34) Caprolactam               | 12.108 | 113  | 40747m   | 22.498 | ng/u1  |          |
| 35) 4-Chloro-3-methylphenol   | 12.396 | 107  | 127954   | 20.407 | ng/u1  | 97       |
| 36) 2-Methylnaphthalene       | 12.802 | 142  | 238419   | 19.033 | ng/u1  | 94       |

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Manual Integrations  
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|-------------------------------|--------|------|----------|--------|--------|----------|
| 37) 1-Methylnaphthalene       | 13.019 | 142  | 244401   | 19.780 | ng/ul  | 95       |
| 39) 1,2,4,5-Tetrachloroben... | 13.137 | 216  | 139103   | 17.642 | ng/ul  | 97       |
| 40) Hexachlorocyclopentadiene | 13.095 | 237  | 81844    | 14.107 | ng/ul  | 97       |
| 41) 2,4,6-Trichlorophenol     | 13.377 | 196  | 95403    | 19.059 | ng/ul  | 97       |
| 42) 2,4,5-Trichlorophenol     | 13.442 | 196  | 106271m  | 19.610 | ng/ul  |          |
| 43) 1,1'-Biphenyl             | 13.789 | 154  | 340683   | 18.868 | ng/ul# | 96       |
| 44) 2-Chloronaphthalene       | 13.842 | 162  | 257079   | 18.642 | ng/ul  | 97       |
| 45) 2-Nitroaniline            | 14.053 | 65   | 85951    | 20.322 | ng/ul  | 88       |
| 47) Dimethylphthalate         | 14.394 | 163  | 347401   | 19.609 | ng/ul  | 97       |
| 48) 2,6-Dinitrotoluene        | 14.535 | 165  | 72549    | 21.528 | ng/ul  | 96       |
| 50) Acenaphthylene            | 14.682 | 152  | 440014   | 19.343 | ng/ul  | 98       |
| 51) 3-Nitroaniline            | 14.870 | 138  | 68617    | 21.217 | ng/ul# | 86       |
| 52) Acenaphthene              | 15.017 | 153  | 289356   | 18.956 | ng/ul  | 100      |
| 53) 2,4-Dinitrophenol         | 15.058 | 184  | 40074    | 18.449 | ng/ul  | 90       |
| 55) 4-Nitrophenol             | 15.128 | 109  | 72068    | 19.626 | ng/ul  | 88       |
| 56) Dibenzofuran              | 15.346 | 168  | 424234   | 19.187 | ng/ul  | 99       |
| 57) 2,4-Dinitrotoluene        | 15.310 | 165  | 102743   | 22.095 | ng/ul# | 90       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.551 | 232  | 104055   | 20.102 | ng/ul# | 94       |
| 59) Diethylphthalate          | 15.739 | 149  | 350894   | 20.090 | ng/ul  | 96       |
| 61) Fluorene                  | 15.992 | 166  | 363248   | 19.989 | ng/ul  | 97       |
| 62) 4-Chlorophenyl-phenyle... | 15.980 | 204  | 185401   | 19.281 | ng/ul  | 95       |
| 63) 4-Nitroaniline            | 16.027 | 138  | 68677    | 22.407 | ng/ul  | 93       |
| 66) 4,6-Dinitro-2-methylph... | 16.057 | 198  | 63580    | 18.885 | ng/ul  | 99       |
| 67) N-Nitrosodiphenylamine    | 16.198 | 169  | 309769   | 18.701 | ng/ul  | 99       |
| 68) 4-Bromophenyl-phenylether | 16.879 | 248  | 119337   | 17.310 | ng/ul  | 97       |
| 69) Hexachlorobenzene         | 16.961 | 284  | 144757   | 18.291 | ng/ul  | 93       |
| 70) Atrazine                  | 17.126 | 200  | 131645   | 20.308 | ng/ul  | 98       |
| 71) Pentachlorophenol         | 17.314 | 266  | 92991    | 19.062 | ng/ul  | 95       |
| 72) Phenanthrene              | 17.743 | 178  | 600248   | 18.820 | ng/ul  | 99       |
| 74) Anthracene                | 17.831 | 178  | 625166   | 19.285 | ng/ul  | 98       |
| 75) 1,2,3,4-Tetrachloroben... | 13.748 | 216  | 153251   | 16.900 | ng/ul  | 94       |
| 76) Pentachlorobenzene        | 15.240 | 250  | 152414   | 17.392 | ng/ul  | 97       |
| 77) Carbazole                 | 18.107 | 167  | 538902   | 19.852 | ng/ul  | 97       |
| 78) Di-n-butylphthalate       | 18.618 | 149  | 595714   | 19.796 | ng/ul  | 99       |
| 80) Fluoranthene              | 19.735 | 202  | 729868   | 19.452 | ng/ul  | 99       |
| 82) Pyrene                    | 20.099 | 202  | 746663   | 19.141 | ng/ul  | 96       |
| 83) Butylbenzylphthalate      | 20.963 | 149  | 256114   | 20.777 | ng/ul  | 100      |
| 84) 3,3'-Dichlorobenzidine    | 21.909 | 252  | 280039   | 20.693 | ng/ul# | 88       |
| 85) Benzo(a)anthracene        | 22.003 | 228  | 786794   | 19.234 | ng/ul  | 100      |
| 86) Bis(2-ethylhexyl)phtha... | 21.844 | 149  | 375944   | 20.364 | ng/ul  | 94       |
| 87) Chrysene                  | 22.073 | 228  | 729862   | 19.193 | ng/ul  | 98       |
| 89) Di-n-octyl phthalate      | 23.178 | 149  | 636331   | 19.985 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 24.435 | 252  | 782868   | 18.987 | ng/ul  | 99       |
| 91) Benzo(k)fluoranthene      | 24.511 | 252  | 764659   | 18.147 | ng/ul  | 97       |
| 93) Benzo(a)pyrene            | 25.422 | 252  | 747690   | 19.435 | ng/ul  | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 29.723 | 276  | 927329m  | 19.077 | ng/ul  |          |
| 95) Dibenzo(a,h)anthracene    | 29.811 | 278  | 783426m  | 19.450 | ng/ul  |          |
| 96) Benzo(g,h,i)perylene      | 31.033 | 276  | 763938   | 19.856 | ng/ul  | 98       |

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

