

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM081422\  
 Data File : BM036268.D  
 Acq On : 14 Aug 2022 13:42  
 Operator : CG/JU  
 Sample : SSTDCCC020  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SSTD020145

Quant Time: Aug 14 23:36:08 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM072522.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sun Aug 14 23:34:05 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh Patel 08/15/2022  
 Supervised By :mohammad ahmed 08/16/2022

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.804  | 152  | 225944   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.610 | 136  | 1007462  | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.451 | 164  | 602168   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.192 | 188  | 1167079  | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.374 | 240  | 1073706  | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 23.709 | 264  | 1052420  | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.211  | 96   | 50264    | 8.371  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.640  | 84   | 319731   | 19.437 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 6.993  | 99   | 380173   | 20.065 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.146  | 67   | 265611   | 21.028 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.340  | 132  | 339220   | 21.569 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.534  | 113  | 313279   | 20.409 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.975  | 128  | 165939   | 20.786 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.698  | 143  | 171253   | 22.018 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.239 | 165  | 302713   | 21.519 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.757 | 131  | 478407   | 20.089 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.869 | 166  | 880287   | 21.461 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.145 | 160  | 1094655  | 20.916 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.680 | 143  | 139666   | 16.581 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.445 | 176  | 773250   | 20.861 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.574 | 200  | 125652   | 20.029 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.292 | 188  | 1138784  | 21.582 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.586 | 212  | 1245349  | 20.928 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.556 | 264  | 1128557  | 21.122 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.246  | 88   | 52417    | 8.424  | ng/uL  | 93       |
| 5) Pyridine                   | 3.658  | 79   | 337518   | 19.553 | ng/u1  | 87       |
| 6) Benzaldehyde               | 6.951  | 77   | 128839   | 16.201 | ng/u1  | 92       |
| 8) Phenol                     | 7.022  | 94   | 416279   | 20.076 | ng/u1  | 98       |
| 10) Bis(2-Chloroethyl)ether   | 7.240  | 93   | 350967   | 21.054 | ng/u1  | 98       |
| 12) 2-Chlorophenol            | 7.375  | 128  | 346362   | 21.468 | ng/u1  | 98       |
| 13) 2-Methylphenol            | 8.269  | 108  | 317531   | 20.499 | ng/u1  | 95       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.334  | 45   | 474406m  | 21.560 | ng/u1  |          |
| 16) Acetophenone              | 8.640  | 105  | 520272   | 21.111 | ng/u1  | 97       |
| 17) N-Nitroso-di-n-propyla... | 8.622  | 70   | 261598   | 21.286 | ng/u1  | 95       |
| 18) 4-Methylphenol            | 8.598  | 108  | 342987   | 20.640 | ng/u1  | 97       |
| 19) Hexachloroethane          | 8.881  | 117  | 149004   | 22.384 | ng/u1  | 89       |
| 22) Nitrobenzene              | 9.022  | 77   | 382656   | 20.946 | ng/u1  | 100      |
| 23) Isophorone                | 9.545  | 82   | 711407   | 20.629 | ng/u1  | 97       |
| 25) 2-Nitrophenol             | 9.728  | 139  | 190949   | 22.129 | ng/u1  | 99       |
| 26) 2,4-Dimethylphenol        | 9.798  | 107  | 372850   | 21.146 | ng/u1  | 98       |
| 27) Bis(2-Chloroethoxy)met... | 10.034 | 93   | 466765   | 21.461 | ng/u1  | 100      |
| 29) 2,4-Dichlorophenol        | 10.269 | 162  | 313204   | 21.451 | ng/u1  | 98       |
| 30) Naphthalene               | 10.657 | 128  | 1140049  | 21.439 | ng/u1  | 99       |
| 32) 4-Chloroaniline           | 10.781 | 127  | 481056   | 20.335 | ng/u1  | 98       |
| 33) Hexachlorobutadiene       | 10.934 | 225  | 201878   | 22.397 | ng/u1  | 98       |
| 34) Caprolactam               | 11.575 | 113  | 87654    | 18.165 | ng/u1  | 90       |
| 35) 4-Chloro-3-methylphenol   | 11.922 | 107  | 317679   | 20.925 | ng/u1  | 96       |
| 36) 2-Methylnaphthalene       | 12.275 | 142  | 737837   | 21.208 | ng/u1  | 97       |

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## Manual Integrations

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| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 37) 1-Methylnaphthalene       | 12.492 | 142  | 749148   | 21.363 | ng/ul | 98       |
| 39) 1,2,4,5-Tetrachloroben... | 12.639 | 216  | 359233   | 20.957 | ng/ul | 99       |
| 40) Hexachlorocyclopentadiene | 12.616 | 237  | 202309   | 17.721 | ng/ul | 96       |
| 41) 2,4,6-Trichlorophenol     | 12.892 | 196  | 229330   | 20.906 | ng/ul | 99       |
| 42) 2,4,5-Trichlorophenol     | 12.969 | 196  | 247848   | 21.175 | ng/ul | 100      |
| 43) 1,1'-Biphenyl             | 13.286 | 154  | 986778   | 21.290 | ng/ul | 98       |
| 44) 2-Chloronaphthalene       | 13.328 | 162  | 744812   | 20.939 | ng/ul | 100      |
| 45) 2-Nitroaniline            | 13.545 | 65   | 197112   | 20.100 | ng/ul | 97       |
| 47) Dimethylphthalate         | 13.916 | 163  | 882834   | 21.397 | ng/ul | 99       |
| 48) 2,6-Dinitrotoluene        | 14.039 | 165  | 170606   | 20.827 | ng/ul | 90       |
| 50) Acenaphthylene            | 14.175 | 152  | 1222435  | 21.115 | ng/ul | 100      |
| 51) 3-Nitroaniline            | 14.374 | 138  | 143380   | 15.838 | ng/ul | 94       |
| 52) Acenaphthene              | 14.516 | 153  | 786796   | 20.948 | ng/ul | 98       |
| 53) 2,4-Dinitrophenol         | 14.586 | 184  | 76486    | 16.445 | ng/ul | 98       |
| 55) 4-Nitrophenol             | 14.698 | 109  | 108342   | 16.818 | ng/ul | 83       |
| 56) Dibenzofuran              | 14.851 | 168  | 1108159  | 21.324 | ng/ul | 99       |
| 57) 2,4-Dinitrotoluene        | 14.827 | 165  | 242207   | 20.976 | ng/ul | 99       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.080 | 232  | 192408   | 20.922 | ng/ul | 93       |
| 59) Diethylphthalate          | 15.280 | 149  | 907841   | 21.753 | ng/ul | 99       |
| 61) Fluorene                  | 15.498 | 166  | 885866   | 20.867 | ng/ul | 98       |
| 62) 4-Chlorophenyl-phenyle... | 15.498 | 204  | 428312   | 21.058 | ng/ul | 97       |
| 63) 4-Nitroaniline            | 15.533 | 138  | 127702m  | 15.322 | ng/ul |          |
| 66) 4,6-Dinitro-2-methylph... | 15.586 | 198  | 125190   | 19.943 | ng/ul | 94       |
| 67) N-Nitrosodiphenylamine    | 15.710 | 169  | 728725   | 21.239 | ng/ul | 99       |
| 68) 4-Bromophenyl-phenylether | 16.386 | 248  | 244937   | 21.408 | ng/ul | 97       |
| 69) Hexachlorobenzene         | 16.492 | 284  | 296026   | 21.235 | ng/ul | 96       |
| 70) Atrazine                  | 16.668 | 200  | 245819   | 20.656 | ng/ul | 99       |
| 71) Pentachlorophenol         | 16.851 | 266  | 140993   | 16.555 | ng/ul | 99       |
| 72) Phenanthrene              | 17.233 | 178  | 1331563  | 21.287 | ng/ul | 98       |
| 74) Anthracene                | 17.327 | 178  | 1350277  | 21.512 | ng/ul | 99       |
| 75) 1,2,3,4-Tetrachloroben... | 13.251 | 216  | 374013   | 20.608 | ng/ul | 97       |
| 76) Pentachlorobenzene        | 14.763 | 250  | 358340   | 21.781 | ng/ul | 99       |
| 77) Carbazole                 | 17.604 | 167  | 1217866  | 21.008 | ng/ul | 99       |
| 78) Di-n-butylphthalate       | 18.168 | 149  | 1501565  | 22.957 | ng/ul | 100      |
| 80) Fluoranthene              | 19.251 | 202  | 1475642  | 20.755 | ng/ul | 99       |
| 82) Pyrene                    | 19.615 | 202  | 1532447  | 20.912 | ng/ul | 97       |
| 83) Butylbenzylphthalate      | 20.515 | 149  | 640521   | 24.032 | ng/ul | 93       |
| 84) 3,3'-Dichlorobenzidine    | 21.298 | 252  | 463090   | 23.372 | ng/ul | 99       |
| 85) Benzo(a)anthracene        | 21.356 | 228  | 1427315  | 21.120 | ng/ul | 100      |
| 86) Bis(2-ethylhexyl)phtha... | 21.292 | 149  | 950873   | 24.690 | ng/ul | 99       |
| 87) Chrysene                  | 21.409 | 228  | 1399504  | 21.224 | ng/ul | 100      |
| 89) Di-n-octyl phthalate      | 22.192 | 149  | 1556132  | 22.897 | ng/ul | 100      |
| 90) Benzo(b)fluoranthene      | 22.997 | 252  | 1466156m | 20.875 | ng/ul |          |
| 91) Benzo(k)fluoranthene      | 23.045 | 252  | 1333102  | 20.002 | ng/ul | 98       |
| 93) Benzo(a)pyrene            | 23.603 | 252  | 1390346  | 20.783 | ng/ul | 97       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.127 | 276  | 1583886  | 22.212 | ng/ul | 95       |
| 95) Dibenzo(a,h)anthracene    | 26.138 | 278  | 1374801  | 22.472 | ng/ul | 96       |
| 96) Benzo(g,h,i)perylene      | 26.868 | 276  | 1336457  | 22.616 | ng/ul | 96       |

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

