

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM012225\  
 Data File : BM049387.D  
 Acq On : 22 Jan 2025 17:30  
 Operator : RC/JU  
 Sample : Q1139-05MSD  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 DCZH2MSD

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 01/24/2025  
 Supervised By :mohammad ahmed 01/24/2025

Quant Time: Jan 22 22:48:58 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM011325.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Mon Jan 13 16:56:06 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.522  | 152  | 264269   | 20.000 | ng/ul | 0.00     |
| 20) Naphthalene-d8            | 10.280 | 136  | 989159   | 20.000 | ng/ul | 0.00     |
| 38) Acenaphthene-d10          | 14.157 | 164  | 618550   | 20.000 | ng/ul | 0.00     |
| 64) Phenanthrene-d10          | 16.909 | 188  | 1172696  | 20.000 | ng/ul | 0.00     |
| 79) Chrysene-d12              | 21.139 | 240  | 1104032  | 20.000 | ng/ul | 0.00     |
| 88) Perylene-d12              | 23.915 | 264  | 1026465  | 20.000 | ng/ul | -0.02    |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 3) 1,4-Dioxane-d8             | 3.116  | 96   | 28263    | 4.425  | ng/uL | 0.00     |
| 4) Pyridine-d5                | 3.504  | 84   | 405073   | 19.922 | ng/ul | 0.00     |
| 7) Phenol-d5                  | 6.716  | 99   | 497239   | 22.414 | ng/ul | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 6.869  | 67   | 340357   | 23.041 | ng/ul | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.063  | 132  | 394123   | 23.224 | ng/ul | 0.00     |
| 15) 4-Methylphenol-d8         | 8.234  | 113  | 370679   | 21.548 | ng/ul | 0.00     |
| 21) Nitrobenzene-d5           | 8.663  | 128  | 177399   | 23.518 | ng/ul | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.375  | 143  | 196172   | 23.264 | ng/ul | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 9.910  | 165  | 408715   | 23.753 | ng/ul | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.422 | 131  | 434443   | 19.188 | ng/ul | 0.00     |
| 46) Dimethylphthalate-d6      | 13.580 | 166  | 1079854  | 23.456 | ng/ul | 0.00     |
| 49) Acenaphthylene-d8         | 13.845 | 160  | 1259811  | 23.971 | ng/ul | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.386 | 143  | 161092   | 21.131 | ng/ul | 0.00     |
| 60) Fluorene-d10              | 15.157 | 176  | 930780   | 23.403 | ng/ul | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.286 | 200  | 159005   | 21.275 | ng/ul | 0.00     |
| 73) Anthracene-d10            | 17.009 | 188  | 1379394  | 23.795 | ng/ul | 0.00     |
| 81) Pyrene-d10                | 19.315 | 212  | 1490634  | 22.185 | ng/ul | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.727 | 264  | 1244859  | 22.592 | ng/ul | -0.02    |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.152  | 88   | 87964    | 12.571 | ng/uL | 97       |
| 5) Pyridine                   | 3.528  | 79   | 677260   | 32.950 | ng/ul | 95       |
| 6) Benzaldehyde               | 6.675  | 77   | 45062    | 3.768  | ng/ul | 96       |
| 8) Phenol                     | 6.740  | 94   | 733957   | 31.822 | ng/ul | 97       |
| 10) Bis(2-Chloroethyl)ether   | 6.963  | 93   | 580546   | 30.909 | ng/ul | 99       |
| 12) 2-Chlorophenol            | 7.092  | 128  | 562909   | 31.911 | ng/ul | 100      |
| 13) 2-Methylphenol            | 7.969  | 108  | 505075   | 29.972 | ng/ul | 98       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.039  | 45   | 912681   | 32.423 | ng/ul | 98       |
| 16) Acetophenone              | 8.334  | 105  | 840194   | 29.905 | ng/ul | 97       |
| 17) N-Nitroso-di-n-propyla... | 8.328  | 70   | 468595   | 30.878 | ng/ul | 98       |
| 18) 4-Methylphenol            | 8.298  | 108  | 550214   | 29.801 | ng/ul | 98       |
| 19) Hexachloroethane          | 8.581  | 117  | 245897   | 32.443 | ng/ul | 96       |
| 22) Nitrobenzene              | 8.704  | 77   | 638577   | 32.678 | ng/ul | 98       |
| 23) Isophorone                | 9.233  | 82   | 1181376  | 31.113 | ng/ul | 100      |
| 25) 2-Nitrophenol             | 9.410  | 139  | 298847   | 32.246 | ng/ul | 99       |
| 26) 2,4-Dimethylphenol        | 9.481  | 107  | 550061   | 31.714 | ng/ul | 98       |
| 27) Bis(2-Chloroethoxy)met... | 9.716  | 93   | 741419   | 31.770 | ng/ul | 98       |
| 29) 2,4-Dichlorophenol        | 9.939  | 162  | 551060   | 32.145 | ng/ul | 98       |
| 30) Naphthalene               | 10.328 | 128  | 1692355  | 32.238 | ng/ul | 99       |
| 32) 4-Chloroaniline           | 10.451 | 127  | 319974   | 14.820 | ng/ul | 99       |
| 33) Hexachlorobutadiene       | 10.622 | 225  | 402924   | 32.918 | ng/ul | 98       |
| 34) Caprolactam               | 11.227 | 113  | 133353m  | 26.130 | ng/ul |          |
| 35) 4-Chloro-3-methylphenol   | 11.586 | 107  | 495597   | 30.919 | ng/ul | 99       |
| 36) 2-Methylnaphthalene       | 11.951 | 142  | 1174454  | 31.265 | ng/ul | 99       |

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| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 37) 1-Methylnaphthalene       | 12.174 | 142  | 1168207  | 31.255 | ng/ul | 98       |
| 39) 1,2,4,5-Tetrachloroben... | 12.327 | 216  | 729889   | 34.090 | ng/ul | 98       |
| 40) Hexachlorocyclopentadiene | 12.310 | 237  | 373096   | 29.044 | ng/ul | 99       |
| 41) 2,4,6-Trichlorophenol     | 12.580 | 196  | 440702   | 33.460 | ng/ul | 98       |
| 42) 2,4,5-Trichlorophenol     | 12.651 | 196  | 467765   | 33.136 | ng/ul | 98       |
| 43) 1,1'-Biphenyl             | 12.986 | 154  | 1526727  | 33.712 | ng/ul | 98       |
| 44) 2-Chloronaphthalene       | 13.021 | 162  | 1231448  | 34.001 | ng/ul | 99       |
| 45) 2-Nitroaniline            | 13.239 | 65   | 332628   | 34.806 | ng/ul | 99       |
| 47) Dimethylphthalate         | 13.633 | 163  | 1446642  | 31.765 | ng/ul | 99       |
| 48) 2,6-Dinitrotoluene        | 13.745 | 165  | 278973   | 32.834 | ng/ul | 97       |
| 50) Acenaphthylene            | 13.874 | 152  | 1775794  | 32.958 | ng/ul | 100      |
| 51) 3-Nitroaniline            | 14.074 | 138  | 241803   | 29.006 | ng/ul | 99       |
| 52) Acenaphthene              | 14.221 | 153  | 1278584  | 33.213 | ng/ul | 99       |
| 53) 2,4-Dinitrophenol         | 14.280 | 184  | 139051   | 26.131 | ng/ul | 95       |
| 55) 4-Nitrophenol             | 14.398 | 109  | 167528   | 29.799 | ng/ul | 97       |
| 56) Dibenzofuran              | 14.563 | 168  | 1786410  | 32.678 | ng/ul | 98       |
| 57) 2,4-Dinitrotoluene        | 14.539 | 165  | 403901   | 32.035 | ng/ul | 98       |
| 58) 2,3,4,6-Tetrachlorophenol | 14.798 | 232  | 370969   | 31.109 | ng/ul | 98       |
| 59) Diethylphthalate          | 15.010 | 149  | 1402118  | 31.591 | ng/ul | 99       |
| 61) Fluorene                  | 15.215 | 166  | 1481813  | 33.176 | ng/ul | 100      |
| 62) 4-Chlorophenyl-phenyle... | 15.215 | 204  | 798125   | 32.788 | ng/ul | 97       |
| 63) 4-Nitroaniline            | 15.245 | 138  | 259927   | 34.655 | ng/ul | 99       |
| 66) 4,6-Dinitro-2-methylph... | 15.304 | 198  | 245288   | 30.100 | ng/ul | 95       |
| 67) N-Nitrosodiphenylamine    | 15.433 | 169  | 1171739  | 33.676 | ng/ul | 100      |
| 68) 4-Bromophenyl-phenylether | 16.110 | 248  | 448937   | 33.667 | ng/ul | 98       |
| 69) Hexachlorobenzene         | 16.221 | 284  | 500569   | 32.277 | ng/ul | 98       |
| 70) Atrazine                  | 16.398 | 200  | 406965   | 28.608 | ng/ul | 100      |
| 71) Pentachlorophenol         | 16.568 | 266  | 294573   | 28.671 | ng/ul | 97       |
| 72) Phenanthrene              | 16.951 | 178  | 2173104  | 33.332 | ng/ul | 100      |
| 74) Anthracene                | 17.045 | 178  | 2167624  | 33.125 | ng/ul | 99       |
| 75) 1,2,3,4-Tetrachloroben... | 12.945 | 216  | 695493   | 35.486 | ng/uL | 98       |
| 76) Pentachlorobenzene        | 14.480 | 250  | 643084   | 32.874 | ng/uL | 99       |
| 77) Carbazole                 | 17.321 | 167  | 1872956  | 32.259 | ng/ul | 99       |
| 78) Di-n-butylphthalate       | 17.904 | 149  | 2356160  | 33.121 | ng/ul | 100      |
| 80) Fluoranthene              | 18.980 | 202  | 2505292  | 32.449 | ng/ul | 99       |
| 82) Pyrene                    | 19.345 | 202  | 2646596  | 32.203 | ng/ul | 99       |
| 83) Butylbenzylphthalate      | 20.268 | 149  | 939517   | 32.290 | ng/ul | 98       |
| 84) 3,3'-Dichlorobenzidine    | 21.056 | 252  | 597660   | 28.909 | ng/ul | 99       |
| 85) Benzo(a)anthracene        | 21.121 | 228  | 2507394  | 32.589 | ng/ul | 100      |
| 86) Bis(2-ethylhexyl)phtha... | 21.074 | 149  | 1424692  | 32.923 | ng/ul | 99       |
| 87) Chrysene                  | 21.180 | 228  | 2331807  | 33.198 | ng/ul | 99       |
| 89) Di-n-octyl phthalate      | 22.139 | 149  | 2186908  | 29.246 | ng/ul | 100      |
| 90) Benzo(b)fluoranthene      | 23.044 | 252  | 2228492  | 32.436 | ng/ul | 99       |
| 91) Benzo(k)fluoranthene      | 23.109 | 252  | 2304487  | 33.641 | ng/ul | 100      |
| 93) Benzo(a)pyrene            | 23.791 | 252  | 2058197  | 33.166 | ng/ul | 100      |
| 94) Indeno(1,2,3-cd)pyrene    | 27.003 | 276  | 2522441  | 35.434 | ng/ul | 99       |
| 95) Dibenzo(a,h)anthracene    | 27.056 | 278  | 2058033  | 35.495 | ng/ul | 99       |
| 96) Benzo(g,h,i)perylene      | 27.962 | 276  | 1922965  | 36.186 | ng/ul | 98       |

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

