

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM111323\  
 Data File : BM042719.D  
 Acq On : 14 Nov 2023 01:37  
 Operator : MA/JU  
 Sample : 05016-03MSD  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A49A1MSD

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/15/2023  
 Supervised By :mohammad ahmed 11/19/2023

Quant Time: Nov 15 02:54:39 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM111323.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Nov 14 00:02:28 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.834  | 152  | 25759    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.651 | 136  | 110316   | 20.000 | ng/u1  | # 0.00   |
| 38) Acenaphthene-d10          | 14.492 | 164  | 73849    | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.245 | 188  | 164868   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.427 | 240  | 184285   | 20.000 | ng/u1  | # 0.00   |
| 88) Perylene-d12              | 23.797 | 264  | 196458   | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.181  | 96   | 5237     | 6.379  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.628  | 84   | 32834    | 16.079 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.004  | 99   | 31145    | 12.423 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.181  | 67   | 99411    | 56.432 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.357  | 132  | 77406    | 40.015 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.557  | 113  | 53321    | 27.012 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.039  | 128  | 49312    | 50.985 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.751  | 143  | 54427    | 48.104 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.275 | 165  | 99879    | 47.475 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.828 | 131  | 102109   | 38.226 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.916 | 166  | 388579   | 55.596 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.192 | 160  | 383761   | 51.317 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.745 | 143  | 9653     | 12.224 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.486 | 176  | 316599   | 54.702 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.639 | 200  | 81042    | 64.894 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.345 | 188  | 545344   | 59.022 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.645 | 212  | 779872   | 64.625 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.644 | 264  | 767655   | 65.325 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.222  | 88   | 8843     | 10.115 | ng/uL  | 91       |
| 5) Pyridine                   | 3.646  | 79   | 40911    | 18.424 | ng/u1  | 96       |
| 6) Benzaldehyde               | 6.998  | 77   | 82238    | 57.174 | ng/u1  | 97       |
| 8) Phenol                     | 7.034  | 94   | 37633    | 15.091 | ng/u1  | 98       |
| 10) Bis(2-Chloroethyl)ether   | 7.281  | 93   | 118197   | 57.381 | ng/u1  | 94       |
| 12) 2-Chlorophenol            | 7.393  | 128  | 85413    | 44.367 | ng/u1  | 89       |
| 13) 2-Methylphenol            | 8.287  | 108  | 66412    | 35.714 | ng/u1  | 94       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.351  | 45   | 230811m  | 61.553 | ng/u1  |          |
| 16) Acetophenone              | 8.687  | 105  | 184845   | 55.690 | ng/u1  | 92       |
| 17) N-Nitroso-di-n-propyla... | 8.657  | 70   | 119922   | 59.352 | ng/u1  | 95       |
| 18) 4-Methylphenol            | 8.622  | 108  | 59298    | 29.330 | ng/u1  | 95       |
| 19) Hexachloroethane          | 8.892  | 117  | 49337    | 45.981 | ng/u1  | 87       |
| 22) Nitrobenzene              | 9.081  | 77   | 168463   | 57.629 | ng/u1  | 99       |
| 23) Isophorone                | 9.586  | 82   | 339985   | 58.395 | ng/u1  | 97       |
| 25) 2-Nitrophenol             | 9.781  | 139  | 59628    | 51.871 | ng/u1  | 93       |
| 26) 2,4-Dimethylphenol        | 9.822  | 107  | 75918    | 30.867 | ng/u1  | 97       |
| 27) Bis(2-Chloroethoxy)met... | 10.081 | 93   | 169360   | 57.565 | ng/u1  | 98       |
| 29) 2,4-Dichlorophenol        | 10.298 | 162  | 100710   | 50.561 | ng/u1  | 98       |
| 30) Naphthalene               | 10.704 | 128  | 352250   | 50.968 | ng/u1  | 99       |
| 32) 4-Chloroaniline           | 10.851 | 127  | 101563   | 39.632 | ng/u1  | 96       |
| 33) Hexachlorobutadiene       | 10.922 | 225  | 79577    | 45.228 | ng/u1  | 97       |
| 34) Caprolactam               | 11.686 | 113  | 6300m    | 10.667 | ng/u1  |          |
| 35) 4-Chloro-3-methylphenol   | 11.951 | 107  | 105942   | 49.637 | ng/u1  | 97       |
| 36) 2-Methylnaphthalene       | 12.316 | 142  | 253615   | 54.753 | ng/u1  | 98       |

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|-------------------------------|--------|------|----------|--------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.533 | 142  | 253559   | 52.065 | ng/ul  | 98       |
| 39) 1,2,4,5-Tetrachloroben... | 12.663 | 216  | 157623   | 54.423 | ng/ul  | 98       |
| 40) Hexachlorocyclopentadiene | 12.604 | 237  | 49596    | 36.170 | ng/ul  | 96       |
| 41) 2,4,6-Trichlorophenol     | 12.922 | 196  | 98135    | 55.472 | ng/ul  | 95       |
| 42) 2,4,5-Trichlorophenol     | 12.998 | 196  | 105745   | 61.903 | ng/ul  | 98       |
| 43) 1,1'-Biphenyl             | 13.327 | 154  | 359381   | 58.353 | ng/ul  | 97       |
| 44) 2-Chloronaphthalene       | 13.374 | 162  | 280889   | 56.693 | ng/ul  | 95       |
| 45) 2-Nitroaniline            | 13.622 | 65   | 117997   | 73.026 | ng/ul  | 92       |
| 47) Dimethylphthalate         | 13.963 | 163  | 420326   | 61.744 | ng/ul  | 99       |
| 48) 2,6-Dinitrotoluene        | 14.116 | 165  | 81494    | 63.720 | ng/ul  | 95       |
| 50) Acenaphthylene            | 14.221 | 152  | 488992   | 58.356 | ng/ul  | 100      |
| 51) 3-Nitroaniline            | 14.457 | 138  | 64240    | 61.426 | ng/ul  | 96       |
| 52) Acenaphthene              | 14.557 | 153  | 331242   | 58.450 | ng/ul  | 99       |
| 53) 2,4-Dinitrophenol         | 14.663 | 184  | 41992    | 66.034 | ng/ul  | 91       |
| 55) 4-Nitrophenol             | 14.786 | 109  | 26446m   | 21.283 | ng/ul  |          |
| 56) Dibenzofuran              | 14.898 | 168  | 475120   | 60.404 | ng/ul  | 100      |
| 57) 2,4-Dinitrotoluene        | 14.898 | 165  | 137274   | 73.111 | ng/ul  | 97       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.116 | 232  | 110193   | 62.143 | ng/ul# | 98       |
| 59) Diethylphthalate          | 15.316 | 149  | 469893   | 65.825 | ng/ul  | 98       |
| 61) Fluorene                  | 15.545 | 166  | 430924   | 64.528 | ng/ul  | 100      |
| 62) 4-Chlorophenyl-phenyle... | 15.533 | 204  | 229745   | 63.836 | ng/ul  | 99       |
| 63) 4-Nitroaniline            | 15.627 | 138  | 72223    | 75.750 | ng/ul  | 93       |
| 66) 4,6-Dinitro-2-methylph... | 15.651 | 198  | 87972    | 69.193 | ng/ul  | 95       |
| 67) N-Nitrosodiphenylamine    | 15.763 | 169  | 344710   | 66.663 | ng/ul  | 99       |
| 68) 4-Bromophenyl-phenylether | 16.433 | 248  | 138147   | 62.950 | ng/ul  | 95       |
| 69) Hexachlorobenzene         | 16.515 | 284  | 178536   | 66.549 | ng/ul  | 96       |
| 70) Atrazine                  | 16.715 | 200  | 127746   | 64.137 | ng/ul  | 99       |
| 71) Pentachlorophenol         | 16.880 | 266  | 104851   | 67.871 | ng/ul  | 98       |
| 72) Phenanthrene              | 17.292 | 178  | 721717   | 70.072 | ng/ul  | 99       |
| 74) Anthracene                | 17.380 | 178  | 697377   | 67.314 | ng/ul  | 98       |
| 75) 1,2,3,4-Tetrachloroben... | 13.280 | 216  | 159826   | 54.824 | ng/uL  | 98       |
| 76) Pentachlorobenzene        | 14.786 | 250  | 169084   | 55.276 | ng/uL  | 98       |
| 77) Carbazole                 | 17.674 | 167  | 627999   | 73.412 | ng/ul  | 98       |
| 78) Di-n-butylphthalate       | 18.192 | 149  | 941494   | 75.264 | ng/ul  | 99       |
| 80) Fluoranthene              | 19.304 | 202  | 967092   | 70.285 | ng/ul  | 97       |
| 82) Pyrene                    | 19.674 | 202  | 1044160  | 71.570 | ng/ul  | 99       |
| 83) Butylbenzylphthalate      | 20.550 | 149  | 440150   | 70.633 | ng/ul  | 92       |
| 84) 3,3'-Dichlorobenzidine    | 21.356 | 252  | 215569   | 45.705 | ng/ul  | 98       |
| 85) Benzo(a)anthracene        | 21.415 | 228  | 1051717  | 72.701 | ng/ul  | 100      |
| 86) Bis(2-ethylhexyl)phtha... | 21.297 | 149  | 697685   | 73.794 | ng/ul  | 100      |
| 87) Chrysene                  | 21.468 | 228  | 1035574  | 73.813 | ng/ul  | 100      |
| 89) Di-n-octyl phthalate      | 22.209 | 149  | 1180794  | 74.407 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.068 | 252  | 1006636m | 75.082 | ng/ul  |          |
| 91) Benzo(k)fluoranthene      | 23.121 | 252  | 1058645  | 74.176 | ng/ul  | 99       |
| 93) Benzo(a)pyrene            | 23.697 | 252  | 963230   | 73.729 | ng/ul  | 99       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.285 | 276  | 1243212  | 76.569 | ng/ul# | 96       |
| 95) Dibenzo(a,h)anthracene    | 26.291 | 278  | 1051728  | 78.132 | ng/ul  | 99       |
| 96) Benzo(g,h,i)perylene      | 27.050 | 276  | 928949   | 72.051 | ng/ul  | 98       |

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

