

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM071922\  
 Data File : BM035863.D  
 Acq On : 19 Jul 2022 12:28  
 Operator : CG/JU  
 Sample : N3214-01  
 Misc : LOD-MDL-SOIL 4ppm  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 LOD-MDL-SOIL-01-QT2-2022

Quant Time: Jul 19 13:12:19 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM071822.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jul 18 17:08:15 2022  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Christian Giraldo 07/20/2022  
 Supervised By : Jagrut Upadhyay 07/20/2022

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.899  | 152  | 274613   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.705 | 136  | 1120551  | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.534 | 164  | 639756   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.269 | 188  | 1219589  | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 21.445 | 240  | 1078089  | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 23.821 | 264  | 1065020  | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.458  | 112  | 1949180  | 110.039 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.064  | 99   | 2570458  | 115.399 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.063  | 82   | 1774298  | 84.687  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.016 | 330  | 810669   | 113.285 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.163 | 172  | 3902875  | 86.232  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.892 | 244  | 4761274  | 85.928  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.323  | 88   | 26214    | 3.580   | ng    | # 94     |
| 3) Pyridine                   | 3.734  | 79   | 62098    | 3.191   | ng    | 92       |
| 4) n-Nitrosodimethylamine     | 3.640  | 42   | 29860    | 3.672   | ng    | # 74     |
| 6) Aniline                    | 7.222  | 93   | 98618    | 4.032   | ng    | 95       |
| 8) 2-Chlorophenol             | 7.458  | 128  | 65226    | 3.563   | ng    | 96       |
| 9) Benzaldehyde               | 7.034  | 77   | 62844m   | 5.022   | ng    |          |
| 10) Phenol                    | 7.087  | 94   | 81267    | 3.623   | ng    | 98       |
| 11) bis(2-Chloroethyl)ether   | 7.322  | 93   | 67609    | 3.735   | ng    | 95       |
| 12) 1,3-Dichlorobenzene       | 7.781  | 146  | 74328    | 3.641   | ng    | 97       |
| 13) 1,4-Dichlorobenzene       | 7.934  | 146  | 75408    | 3.628   | ng    | 98       |
| 14) 1,2-Dichlorobenzene       | 8.252  | 146  | 72715    | 3.617   | ng    | 98       |
| 15) Benzyl Alcohol            | 8.140  | 79   | 49991    | 3.406   | ng    | 96       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.440  | 45   | 89700    | 3.806   | ng    | 94       |
| 17) 2-Methylphenol            | 8.340  | 107  | 50236    | 3.449   | ng    | 96       |
| 18) Hexachloroethane          | 8.981  | 117  | 26564    | 3.552   | ng    | 94       |
| 19) n-Nitroso-di-n-propyla... | 8.711  | 70   | 45504    | 3.524   | ng    | # 87     |
| 20) 3+4-Methylphenols         | 8.669  | 107  | 64342    | 3.269   | ng    | 96       |
| 22) Acetophenone              | 8.728  | 105  | 97844    | 3.533   | ng    | # 94     |
| 24) Nitrobenzene              | 9.105  | 77   | 74088    | 3.765   | ng    | 99       |
| 25) Isophorone                | 9.628  | 82   | 123130   | 3.757   | ng    | 97       |
| 26) 2-Nitrophenol             | 9.816  | 139  | 24237    | 2.734   | ng    | # 95     |
| 27) 2,4-Dimethylphenol        | 9.875  | 122  | 56060    | 4.009   | ng    | 97       |
| 28) bis(2-Chloroethoxy)met... | 10.122 | 93   | 80886    | 3.546   | ng    | 98       |
| 29) 2,4-Dichlorophenol        | 10.352 | 162  | 47588    | 3.070   | ng    | 98       |
| 30) 1,2,4-Trichlorobenzene    | 10.569 | 180  | 61872    | 3.458   | ng    | 99       |
| 31) Naphthalene               | 10.757 | 128  | 210672   | 3.700   | ng    | 99       |
| 32) Benzoic acid              | 9.928  | 122  | 14362    | 1.358   | ng    | 97       |
| 33) 4-Chloroaniline           | 10.869 | 127  | 81279    | 3.569   | ng    | 96       |
| 34) Hexachlorobutadiene       | 11.040 | 225  | 35352    | 3.443   | ng    | 96       |
| 35) Caprolactam               | 11.622 | 113  | 12082    | 2.548   | ng    | # 87     |
| 36) 4-Chloro-3-methylphenol   | 11.987 | 107  | 50404    | 3.171   | ng    | 99       |
| 37) 2-Methylnaphthalene       | 12.363 | 142  | 133812   | 3.613   | ng    | 97       |
| 38) 1-Methylnaphthalene       | 12.581 | 142  | 128724   | 3.571   | ng    | 99       |
| 40) 1,2,4,5-Tetrachloroben... | 12.728 | 216  | 63998    | 3.501   | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 12.710 | 237  | 35515    | 3.605   | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 12.969 | 196  | 35138    | 2.908   | ng    | 99       |

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|-------------------------------|--------|------|----------|-------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 13.034 | 196  | 38320    | 3.008 | ng    | 99       |
| 46) 1,1'-Biphenyl             | 13.375 | 154  | 182236   | 3.745 | ng    | 98       |
| 47) 2-Chloronaphthalene       | 13.410 | 162  | 133419   | 3.567 | ng    | 99       |
| 48) 2-Nitroaniline            | 13.616 | 65   | 29090    | 2.822 | ng    | 98       |
| 49) Acenaphthylene            | 14.257 | 152  | 208416   | 3.619 | ng    | 99       |
| 50) Dimethylphthalate         | 13.993 | 163  | 144018   | 3.420 | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 14.110 | 165  | 26714    | 3.034 | ng    | 97       |
| 52) Acenaphthene              | 14.593 | 154  | 123903   | 3.591 | ng    | 99       |
| 53) 3-Nitroaniline            | 14.440 | 138  | 29345    | 2.768 | ng    | # 95     |
| 54) 2,4-Dinitrophenol         | 14.640 | 184  | 7704     | 1.776 | ng    | # 83     |
| 55) Dibenzofuran              | 14.928 | 168  | 197555   | 3.574 | ng    | 98       |
| 56) 4-Nitrophenol             | 14.740 | 139  | 19857    | 2.387 | ng    | 92       |
| 57) 2,4-Dinitrotoluene        | 14.893 | 165  | 30065    | 2.609 | ng    | 93       |
| 58) Fluorene                  | 15.575 | 166  | 149949   | 3.455 | ng    | 98       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.151 | 232  | 29804    | 2.911 | ng    | 95       |
| 60) Diethylphthalate          | 15.351 | 149  | 138450   | 3.318 | ng    | 97       |
| 61) 4-Chlorophenyl-phenyle... | 15.575 | 204  | 73684    | 3.489 | ng    | 96       |
| 62) 4-Nitroaniline            | 15.592 | 138  | 27435    | 2.527 | ng    | 94       |
| 63) Azobenzene                | 15.863 | 77   | 136429   | 3.184 | ng    | 94       |
| 65) 4,6-Dinitro-2-methylph... | 15.645 | 198  | 11519    | 1.881 | ng    | 95       |
| 66) n-Nitrosodiphenylamine    | 15.787 | 169  | 122845   | 3.430 | ng    | 98       |
| 67) 4-Bromophenyl-phenylether | 16.463 | 248  | 41093    | 3.352 | ng    | 92       |
| 68) Hexachlorobenzene         | 16.569 | 284  | 51514    | 3.620 | ng    | 93       |
| 69) Atrazine                  | 16.734 | 200  | 34310    | 3.646 | ng    | 98       |
| 70) Pentachlorophenol         | 16.916 | 266  | 18297    | 2.317 | ng    | 93       |
| 71) Phenanthrene              | 17.310 | 178  | 232193   | 3.619 | ng    | 99       |
| 72) Anthracene                | 17.404 | 178  | 220411   | 3.534 | ng    | 99       |
| 73) Carbazole                 | 17.675 | 167  | 202471   | 3.201 | ng    | 98       |
| 74) Di-n-butylphthalate       | 18.245 | 149  | 182751   | 2.837 | ng    | 99       |
| 75) Fluoranthene              | 19.322 | 202  | 226152   | 3.243 | ng    | 98       |
| 77) Benzidine                 | 19.510 | 184  | 85188    | 4.501 | ng    | 98       |
| 78) Pyrene                    | 19.686 | 202  | 238960   | 3.390 | ng    | 98       |
| 80) Butylbenzylphthalate      | 20.592 | 149  | 61729    | 2.453 | ng    | 98       |
| 81) Benzo(a)anthracene        | 21.427 | 228  | 233240   | 3.418 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 21.369 | 252  | 66308    | 4.148 | ng    | 99       |
| 83) Chrysene                  | 21.480 | 228  | 227698   | 3.496 | ng    | 98       |
| 84) Bis(2-ethylhexyl)phtha... | 21.369 | 149  | 89937    | 2.536 | ng    | 99       |
| 85) Di-n-octyl phthalate      | 22.292 | 149  | 141384   | 2.513 | ng    | 100      |
| 87) Indeno(1,2,3-cd)pyrene    | 26.286 | 276  | 242256   | 3.113 | ng    | 97       |
| 88) Benzo(b)fluoranthene      | 23.092 | 252  | 217517   | 3.431 | ng    | 99       |
| 89) Benzo(k)fluoranthene      | 23.139 | 252  | 228448   | 3.482 | ng    | 97       |
| 90) Benzo(a)pyrene            | 23.715 | 252  | 210653   | 3.904 | ng    | 99       |
| 91) Dibenzo(a,h)anthracene    | 26.315 | 278  | 214859   | 3.323 | ng    | 97       |
| 92) Benzo(g,h,i)perylene      | 27.039 | 276  | 218188   | 3.421 | ng    | 97       |

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

