

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM012523\  
 Data File : BM038530.D  
 Acq On : 25 Jan 2023 13:29  
 Operator : CG/JU  
 Sample : N4955-03  
 Misc : MDL-MDL-SOIL 8ppm  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-03-QT4-2022

Quant Time: Jan 25 23:14:57 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM012023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jan 21 01:21:49 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Christian Giraldo 01/26/2023  
 Supervised By : Jagrut Upadhyay 01/26/2023

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.963  | 152  | 39632    | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 10.775 | 136  | 173975   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 14.598 | 164  | 111128   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.339 | 188  | 256045   | 20.000  | ng    | # 0.00   |
| 76) Chrysene-d12              | 21.515 | 240  | 290559   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 23.927 | 264  | 363851   | 20.000  | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.516  | 112  | 280265   | 116.904 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.128  | 99   | 353262   | 115.491 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.139  | 82   | 235774   | 58.850  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.086 | 330  | 225601   | 140.976 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.227 | 172  | 714833   | 79.237  | ng    | 0.00     |
| 79) Terphenyl-d14             | 19.956 | 244  | 1211752  | 81.303  | ng    | 0.00     |
| Target Compounds              |        |      |          |         |       |          |
|                               |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.375  | 88   | 11662    | 10.371  | ng    | 93       |
| 3) Pyridine                   | 3.804  | 79   | 25015    | 8.470   | ng    | # 93     |
| 4) n-Nitrosodimethylamine     | 3.710  | 42   | 15079    | 10.756  | ng    | 85       |
| 6) Aniline                    | 7.292  | 93   | 26734    | 7.041   | ng    | 96       |
| 8) 2-Chlorophenol             | 7.522  | 128  | 20150    | 8.228   | ng    | 98       |
| 9) Benzaldehyde               | 7.110  | 77   | 18338    | 10.107  | ng    | 99       |
| 10) Phenol                    | 7.151  | 94   | 23713    | 7.758   | ng    | 86       |
| 11) bis(2-Chloroethyl)ether   | 7.392  | 93   | 17307    | 7.177   | ng    | 99       |
| 12) 1,3-Dichlorobenzene       | 7.851  | 146  | 23912    | 8.588   | ng    | 95       |
| 13) 1,4-Dichlorobenzene       | 7.998  | 146  | 23849    | 8.477   | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 8.316  | 146  | 23246    | 8.531   | ng    | 97       |
| 15) Benzyl Alcohol            | 8.216  | 79   | 16865    | 7.374   | ng    | 96       |
| 16) 2,2'-oxybis(1-Chloropr... | 8.486  | 45   | 17185    | 6.786   | ng    | 95       |
| 17) 2-Methylphenol            | 8.410  | 107  | 14800    | 6.841   | ng    | 96       |
| 18) Hexachloroethane          | 9.039  | 117  | 8774     | 8.389   | ng    | 87       |
| 19) n-Nitroso-di-n-propyla... | 8.775  | 70   | 14290    | 6.698   | ng    | 93       |
| 20) 3+4-Methylphenols         | 8.739  | 107  | 20323    | 7.009   | ng    | 95       |
| 22) Acetophenone              | 8.798  | 105  | 29137    | 6.079   | ng    | 95       |
| 24) Nitrobenzene              | 9.181  | 77   | 24935    | 6.151   | ng    | 95       |
| 25) Isophorone                | 9.704  | 82   | 38739    | 5.859   | ng    | 99       |
| 26) 2-Nitrophenol             | 9.892  | 139  | 10427    | 6.480   | ng    | 98       |
| 27) 2,4-Dimethylphenol        | 9.951  | 122  | 16112    | 6.017   | ng    | 98       |
| 28) bis(2-Chloroethoxy)met... | 10.186 | 93   | 27274    | 7.052   | ng    | 95       |
| 29) 2,4-Dichlorophenol        | 10.427 | 162  | 24349    | 7.750   | ng    | 96       |
| 30) 1,2,4-Trichlorobenzene    | 10.639 | 180  | 30296    | 8.432   | ng    | 97       |
| 31) Naphthalene               | 10.827 | 128  | 73373    | 7.763   | ng    | 99       |
| 32) Benzoic acid              | 10.028 | 122  | 8672m    | 9.243   | ng    |          |
| 33) 4-Chloroaniline           | 10.945 | 127  | 28421    | 7.205   | ng    | 96       |
| 34) Hexachlorobutadiene       | 11.098 | 225  | 21225    | 8.981   | ng    | 95       |
| 35) Caprolactam               | 11.722 | 113  | 4770     | 6.263   | ng    | 91       |
| 36) 4-Chloro-3-methylphenol   | 12.063 | 107  | 21263    | 7.443   | ng    | 94       |
| 37) 2-Methylnaphthalene       | 12.427 | 142  | 47424    | 6.982   | ng    | 94       |
| 38) 1-Methylnaphthalene       | 12.645 | 142  | 46916m   | 7.324   | ng    |          |
| 40) 1,2,4,5-Tetrachloroben... | 12.792 | 216  | 34879    | 8.344   | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 12.769 | 237  | 17964    | 7.819   | ng    | 99       |
| 43) 2,4,6-Trichlorophenol     | 13.039 | 196  | 20147    | 7.529   | ng    | 98       |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM012523\  
 Data File : BM038530.D  
 Acq On : 25 Jan 2023 13:29  
 Operator : CG/JU  
 Sample : N4955-03  
 Misc : MDL-MDL-SOIL 8ppm  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-03-QT4-2022

Quant Time: Jan 25 23:14:57 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\8270-BM012023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Jan 21 01:21:49 2023  
 Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Christian Giraldo 01/26/2023  
 Supervised By :Jagrut Upadhyay 01/26/2023

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 13.116 | 196  | 21595    | 6.890 | ng    | 96       |
| 46) 1,1'-Biphenyl             | 13.433 | 154  | 70466    | 7.918 | ng    | 97       |
| 47) 2-Chloronaphthalene       | 13.480 | 162  | 54962    | 7.911 | ng    | 99       |
| 48) 2-Nitroaniline            | 13.692 | 65   | 13448    | 6.591 | ng    | 95       |
| 49) Acenaphthylene            | 14.321 | 152  | 78313    | 7.205 | ng    | 99       |
| 50) Dimethylphthalate         | 14.057 | 163  | 64831    | 7.579 | ng    | 99       |
| 51) 2,6-Dinitrotoluene        | 14.186 | 165  | 13169    | 7.315 | ng    | 96       |
| 52) Acenaphthene              | 14.663 | 154  | 49037    | 7.397 | ng    | 99       |
| 53) 3-Nitroaniline            | 14.515 | 138  | 11074    | 6.190 | ng    | 89       |
| 54) 2,4-Dinitrophenol         | 14.727 | 184  | 6472     | 9.180 | ng    | 91       |
| 55) Dibenzofuran              | 14.998 | 168  | 84083    | 7.587 | ng    | 96       |
| 56) 4-Nitrophenol             | 14.827 | 139  | 8339     | 5.660 | ng    | 97       |
| 57) 2,4-Dinitrotoluene        | 14.968 | 165  | 16442    | 6.737 | ng    | 90       |
| 58) Fluorene                  | 15.645 | 166  | 67387    | 7.498 | ng    | 98       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.221 | 232  | 19157    | 7.478 | ng    | 98       |
| 60) Diethylphthalate          | 15.410 | 149  | 62203    | 7.425 | ng    | 100      |
| 61) 4-Chlorophenyl-phenyle... | 15.633 | 204  | 36847    | 7.809 | ng    | 99       |
| 62) 4-Nitroaniline            | 15.674 | 138  | 10424    | 8.099 | ng    | 95       |
| 63) Azobenzene                | 15.927 | 77   | 64174    | 7.230 | ng    | 98       |
| 65) 4,6-Dinitro-2-methylph... | 15.727 | 198  | 10367    | 6.238 | ng    | 98       |
| 66) n-Nitrosodiphenylamine    | 15.851 | 169  | 56195    | 7.311 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 16.527 | 248  | 21728    | 7.650 | ng    | 95       |
| 68) Hexachlorobenzene         | 16.639 | 284  | 26922    | 8.785 | ng    | 96       |
| 69) Atrazine                  | 16.798 | 200  | 20500    | 7.994 | ng    | 98       |
| 70) Pentachlorophenol         | 16.992 | 266  | 14087    | 6.456 | ng    | 97       |
| 71) Phenanthrene              | 17.380 | 178  | 111466   | 7.796 | ng    | 98       |
| 72) Anthracene                | 17.474 | 178  | 107142   | 7.364 | ng    | 99       |
| 73) Carbazole                 | 17.745 | 167  | 94301    | 7.360 | ng    | 98       |
| 74) Di-n-butylphthalate       | 18.298 | 149  | 96168    | 6.832 | ng    | 98       |
| 75) Fluoranthene              | 19.392 | 202  | 131326   | 7.642 | ng    | 98       |
| 77) Benzidine                 | 19.580 | 184  | 57989    | 8.758 | ng    | 98       |
| 78) Pyrene                    | 19.756 | 202  | 141435   | 6.991 | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.644 | 149  | 44486    | 6.359 | ng    | 100      |
| 81) Benzo(a)anthracene        | 21.497 | 228  | 163564   | 7.944 | ng    | 98       |
| 82) 3,3'-Dichlorobenzidine    | 21.433 | 252  | 57246    | 8.656 | ng    | # 95     |
| 83) Chrysene                  | 21.550 | 228  | 154115   | 7.654 | ng    | 100      |
| 84) Bis(2-ethylhexyl)phtha... | 21.409 | 149  | 64988    | 6.410 | ng    | # 97     |
| 85) Di-n-octyl phthalate      | 22.333 | 149  | 117182   | 6.500 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene    | 26.432 | 276  | 205431   | 7.630 | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 23.185 | 252  | 174396   | 7.946 | ng    | 97       |
| 89) Benzo(k)fluoranthene      | 23.233 | 252  | 176183   | 7.757 | ng    | 99       |
| 90) Benzo(a)pyrene            | 23.815 | 252  | 154991   | 7.122 | ng    | 98       |
| 91) Dibenzo(a,h)anthracene    | 26.444 | 278  | 173479   | 7.741 | ng    | 97       |
| 92) Benzo(g,h,i)perylene      | 27.209 | 276  | 181062   | 7.887 | ng    | 97       |

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

