

Data Path : Z:\svoasrv\HPCHEM1\BNA\_G\Data\BG033121\  
 Data File : BG048529.D  
 Acq On : 31 Mar 2021 15:54  
 Operator : CG/JU  
 Sample : M1458-02  
 Misc : LOQ-SOIL-10PPM  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 LOQ-SOIL-02-QT1-2021

Manual Integrations  
 APPROVED

mohammad  
 4/1/2021 10:50:37 AM

Quant Time: Mar 31 16:30:09 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_G\METHODS\8270-BG033021.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Mar 31 11:41:32 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 8.096  | 152  | 17576    | 20.00 | ng    | # 0.00   |
| 21) Naphthalene-d8            | 10.922 | 136  | 74244    | 20.00 | ng    | # 0.00   |
| 39) Acenaphthene-d10          | 14.747 | 164  | 52780    | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10          | 17.503 | 188  | 120955   | 20.00 | ng    | # 0.00   |
| 76) Chrysene-d12              | 21.797 | 240  | 123811   | 20.00 | ng    | # 0.00   |
| 86) Perylene-d12              | 25.141 | 264  | 127224   | 20.00 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 5) 2-Fluorophenol             | 5.640  | 112  | 97759    | 98.20 | ng    | 0.00     |
| 7) Phenol-d6                  | 7.244  | 99   | 135152   | 93.61 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 9.265  | 82   | 117637   | 76.71 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 16.239 | 330  | 62476    | 90.05 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 13.372 | 172  | 276857   | 77.97 | ng    | 0.00     |
| 79) Terphenyl-d14             | 20.111 | 244  | 506670   | 74.84 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.513  | 88   | 5026     | 12.55 | ng    | 92       |
| 3) Pyridine                   | 3.924  | 79   | 10533    | 10.49 | ng    | 96       |
| 4) n-Nitrosodimethylamine     | 3.830  | 42   | 7129     | 10.87 | ng    | # 86     |
| 6) Aniline                    | 7.414  | 93   | 18887    | 11.39 | ng    | # 92     |
| 8) 2-Chlorophenol             | 7.655  | 128  | 11782    | 10.47 | ng    | 97       |
| 9) Benzaldehyde               | 7.232  | 77   | 11125    | 12.05 | ng    | 97       |
| 10) Phenol                    | 7.273  | 94   | 16528    | 11.43 | ng    | 97       |
| 11) bis(2-Chloroethyl)ether   | 7.514  | 93   | 11537    | 11.50 | ng    | 85       |
| 12) 1,3-Dichlorobenzene       | 7.984  | 146  | 13929    | 10.99 | ng    | 95       |
| 13) 1,4-Dichlorobenzene       | 8.131  | 146  | 14651m   | 11.47 | ng    |          |
| 14) 1,2-Dichlorobenzene       | 8.454  | 146  | 13936    | 11.39 | ng    | 91       |
| 15) Benzyl Alcohol            | 8.331  | 79   | 12587    | 10.64 | ng    | # 84     |
| 16) 2,2'-oxybis(1-Chloropr... | 8.625  | 45   | 10823    | 11.19 | ng    | 89       |
| 17) 2-Methylphenol            | 8.537  | 107  | 10743    | 11.49 | ng    | 87       |
| 18) Hexachloroethane          | 9.195  | 117  | 5301     | 11.16 | ng    | # 82     |
| 19) n-Nitroso-di-n-propyla... | 8.901  | 70   | 11278    | 11.33 | ng    | # 84     |
| 20) 3+4-Methylphenols         | 8.866  | 107  | 14709    | 11.33 | ng    | # 78     |
| 22) Acetophenone              | 8.918  | 105  | 21114    | 11.03 | ng    | # 96     |
| 24) Nitrobenzene              | 9.312  | 77   | 17012    | 11.30 | ng    | # 88     |
| 25) Isophorone                | 9.829  | 82   | 28150    | 9.94  | ng    | # 92     |
| 26) 2-Nitrophenol             | 10.023 | 139  | 7323     | 10.59 | ng    | # 90     |
| 27) 2,4-Dimethylphenol        | 10.082 | 122  | 11747    | 10.80 | ng    | # 85     |
| 28) bis(2-Chloroethoxy)met... | 10.317 | 93   | 15371    | 11.84 | ng    | 94       |
| 29) 2,4-Dichlorophenol        | 10.564 | 162  | 11513    | 9.34  | ng    | 80       |
| 30) 1,2,4-Trichlorobenzene    | 10.787 | 180  | 15324    | 10.82 | ng    | 98       |
| 31) Naphthalene               | 10.975 | 128  | 41672    | 10.92 | ng    | # 95     |
| 32) Benzoic acid              | 10.146 | 122  | 6740m    | 8.05  | ng    |          |
| 33) 4-Chloroaniline           | 11.075 | 127  | 17144    | 10.64 | ng    | # 93     |
| 34) Hexachlorobutadiene       | 11.257 | 225  | 11702    | 11.32 | ng    | 93       |
| 35) Caprolactam               | 11.821 | 113  | 4129     | 9.19  | ng    | # 50     |
| 36) 4-Chloro-3-methylphenol   | 12.191 | 107  | 13413    | 9.69  | ng    | 94       |
| 37) 2-Methylnaphthalene       | 12.579 | 142  | 31772    | 10.45 | ng    | 97       |
| 38) 1-Methylnaphthalene       | 12.796 | 142  | 29685    | 10.24 | ng    | 94       |
| 40) 1,2,4,5-Tetrachloroben... | 12.943 | 216  | 17913    | 10.95 | ng    | 97       |
| 41) Hexachlorocyclopentadiene | 12.926 | 237  | 11617    | 12.26 | ng    | 86       |
| 43) 2,4,6-Trichlorophenol     | 13.172 | 196  | 11932    | 10.61 | ng    | # 82     |

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|-------------------------------|--------|------|----------|-------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 13.249 | 196  | 12196    | 10.14 | ng    | 94       |
| 46) 1,1'-Biphenyl             | 13.578 | 154  | 41791    | 10.84 | ng    | 96       |
| 47) 2-Chloronaphthalene       | 13.625 | 162  | 33147    | 11.28 | ng    | 95       |
| 48) 2-Nitroaniline            | 13.819 | 65   | 9523     | 10.20 | ng    | 88       |
| 49) Acenaphthylene            | 14.471 | 152  | 49646    | 10.78 | ng    | 99       |
| 50) Dimethylphthalate         | 14.189 | 163  | 42388    | 10.82 | ng    | 98       |
| 51) 2,6-Dinitrotoluene        | 14.312 | 165  | 8500     | 9.48  | ng    | 91       |
| 52) Acenaphthene              | 14.812 | 154  | 34397    | 10.32 | ng    | 95       |
| 53) 3-Nitroaniline            | 14.641 | 138  | 8957     | 10.19 | ng    | # 92     |
| 54) 2,4-Dinitrophenol         | 14.847 | 184  | 4329     | 8.59  | ng    | 91       |
| 55) Dibenzofuran              | 15.146 | 168  | 49786    | 10.23 | ng    | # 95     |
| 56) 4-Nitrophenol             | 14.947 | 139  | 6734     | 9.49  | ng    | # 80     |
| 57) 2,4-Dinitrotoluene        | 15.094 | 165  | 13046    | 10.29 | ng    | 94       |
| 58) Fluorene                  | 15.799 | 166  | 42386    | 10.41 | ng    | 97       |
| 59) 2,3,4,6-Tetrachlorophenol | 15.370 | 232  | 12137    | 10.34 | ng    | # 97     |
| 60) Diethylphthalate          | 15.552 | 149  | 43380    | 10.78 | ng    | 97       |
| 61) 4-Chlorophenyl-phenyle... | 15.787 | 204  | 22548    | 10.29 | ng    | 98       |
| 62) 4-Nitroaniline            | 15.805 | 138  | 9450     | 10.28 | ng    | 90       |
| 63) Azobenzene                | 16.081 | 77   | 39604    | 10.00 | ng    | 94       |
| 65) 4,6-Dinitro-2-methylph... | 15.863 | 198  | 6863     | 9.44  | ng    | 94       |
| 66) n-Nitrosodiphenylamine    | 15.998 | 169  | 35252    | 10.24 | ng    | # 90     |
| 67) 4-Bromophenyl-phenylether | 16.686 | 248  | 14022    | 10.46 | ng    | 94       |
| 68) Hexachlorobenzene         | 16.803 | 284  | 14610    | 10.44 | ng    | 94       |
| 69) Atrazine                  | 16.938 | 200  | 14217    | 10.13 | ng    | 91       |
| 70) Pentachlorophenol         | 17.144 | 266  | 8298     | 9.54  | ng    | 93       |
| 71) Phenanthrene              | 17.544 | 178  | 69009    | 10.99 | ng    | 98       |
| 72) Anthracene                | 17.632 | 178  | 71477    | 11.42 | ng    | 98       |
| 73) Carbazole                 | 17.902 | 167  | 63327    | 10.67 | ng    | # 94     |
| 74) Di-n-butylphthalate       | 18.454 | 149  | 75428    | 11.38 | ng    | 98       |
| 75) Fluoranthene              | 19.553 | 202  | 87657    | 11.26 | ng    | 97       |
| 77) Benzidine                 | 19.729 | 184  | 44083    | 10.51 | ng    | 97       |
| 78) Pyrene                    | 19.917 | 202  | 90350    | 10.61 | ng    | 99       |
| 80) Butylbenzylphthalate      | 20.799 | 149  | 33795    | 10.69 | ng    | 96       |
| 81) Benzo(a)anthracene        | 21.780 | 228  | 88405    | 10.69 | ng    | 96       |
| 82) 3,3'-Dichlorobenzidine    | 21.686 | 252  | 33663    | 11.85 | ng    | # 95     |
| 83) Chrysene                  | 21.845 | 228  | 87198m   | 11.05 | ng    |          |
| 84) Bis(2-ethylhexyl)phtha... | 21.674 | 149  | 45972    | 10.44 | ng    | 95       |
| 85) Di-n-octyl phthalate      | 22.931 | 149  | 84131    | 10.96 | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 28.954 | 276  | 97352    | 10.91 | ng    | # 91     |
| 88) Benzo(b)fluoranthene      | 24.071 | 252  | 89046    | 10.78 | ng    | 95       |
| 89) Benzo(k)fluoranthene      | 24.142 | 252  | 85864    | 10.81 | ng    | 98       |
| 90) Benzo(a)pyrene            | 24.976 | 252  | 78393    | 10.29 | ng    | 97       |
| 91) Dibenzo(a,h)anthracene    | 29.030 | 278  | 83186    | 10.93 | ng    | # 95     |
| 92) Benzo(g,h,i)perylene      | 30.141 | 276  | 83464m   | 11.20 | ng    |          |

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

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