

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110624\  
 Data File : BF140255.D  
 Acq On : 06 Nov 2024 13:34  
 Operator : RC/JU  
 Sample : P4368-02  
 Misc : LOQ-SOIL-10 PPM  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LOQ-SOIL-02-QT4-2024

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/07/2024  
 Supervised By :mohammad ahmed 11/08/2024

Quant Time: Nov 06 14:01:16 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF110524.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 05 16:47:56 2024  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.875  | 152  | 165212   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.157  | 136  | 623318   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.916  | 164  | 378192   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.404 | 188  | 670348   | 20.000  | ng    | 0.00     |
| 76) Chrysene-d12              | 14.062 | 240  | 422007   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 15.574 | 264  | 370601   | 20.000  | ng    | 0.01     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.492  | 112  | 1106390  | 110.980 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.504  | 99   | 1422794  | 110.957 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.439  | 82   | 999191   | 79.699  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.704 | 330  | 436742   | 116.831 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.233  | 172  | 1827380  | 77.156  | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.992 | 244  | 1978421  | 76.798  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 2) 1,4-Dioxane                | 2.675  | 88   | 48571    | 10.597  | ng    | 96       |
| 3) Pyridine                   | 3.463  | 79   | 108960   | 9.743   | ng    | 95       |
| 4) n-Nitrosodimethylamine     | 3.369  | 42   | 60267    | 9.334   | ng    | 97       |
| 6) Aniline                    | 6.539  | 93   | 153355   | 13.237  | ng    | 97       |
| 8) 2-Chlorophenol             | 6.663  | 128  | 114653   | 10.992  | ng    | 99       |
| 9) Benzaldehyde               | 6.428  | 77   | 100450   | 12.717  | ng    | 98       |
| 10) Phenol                    | 6.516  | 94   | 144922   | 10.641  | ng    | 95       |
| 11) bis(2-Chloroethyl)ether   | 6.610  | 93   | 111039   | 10.733  | ng    | 98       |
| 12) 1,3-Dichlorobenzene       | 6.816  | 146  | 128868   | 10.543  | ng    | 98       |
| 13) 1,4-Dichlorobenzene       | 6.892  | 146  | 130054   | 10.549  | ng    | 99       |
| 14) 1,2-Dichlorobenzene       | 7.045  | 146  | 121939   | 10.590  | ng    | 98       |
| 15) Benzyl Alcohol            | 7.010  | 79   | 116044   | 11.739  | ng    | 98       |
| 16) 2,2'-oxybis(1-Chloropr... | 7.145  | 45   | 178712   | 10.672  | ng    | 99       |
| 17) 2-Methylphenol            | 7.116  | 107  | 91346    | 10.498  | ng    | 97       |
| 18) Hexachloroethane          | 7.386  | 117  | 45867    | 9.988   | ng    | 98       |
| 19) n-Nitroso-di-n-propyla... | 7.281  | 70   | 86746    | 10.604  | ng    | 97       |
| 20) 3+4-Methylphenols         | 7.269  | 107  | 117708   | 10.771  | ng    | 92       |
| 22) Acetophenone              | 7.281  | 105  | 168559   | 10.907  | ng    | # 91     |
| 24) Nitrobenzene              | 7.457  | 77   | 131787   | 10.018  | ng    | 98       |
| 25) Isophorone                | 7.686  | 82   | 226153   | 10.476  | ng    | 100      |
| 26) 2-Nitrophenol             | 7.769  | 139  | 53005    | 10.129  | ng    | 99       |
| 27) 2,4-Dimethylphenol        | 7.798  | 122  | 74475    | 10.461  | ng    | 97       |
| 28) bis(2-Chloroethoxy)met... | 7.898  | 93   | 137449   | 10.640  | ng    | 99       |
| 29) 2,4-Dichlorophenol        | 8.004  | 162  | 94255    | 10.702  | ng    | 99       |
| 30) 1,2,4-Trichlorobenzene    | 8.098  | 180  | 109691   | 10.394  | ng    | 98       |
| 31) Naphthalene               | 8.175  | 128  | 339645   | 10.552  | ng    | 99       |
| 32) Benzoic acid              | 7.863  | 122  | 36050m   | 6.170   | ng    |          |
| 33) 4-Chloroaniline           | 8.222  | 127  | 128378   | 12.115  | ng    | 97       |
| 34) Hexachlorobutadiene       | 8.292  | 225  | 69982    | 9.797   | ng    | 99       |
| 35) Caprolactam               | 8.563  | 113  | 27700    | 10.339  | ng    | 96       |
| 36) 4-Chloro-3-methylphenol   | 8.698  | 107  | 101881   | 10.390  | ng    | 96       |
| 37) 2-Methylnaphthalene       | 8.869  | 142  | 229307   | 10.916  | ng    | 99       |
| 38) 1-Methylnaphthalene       | 8.969  | 142  | 214371   | 10.411  | ng    | 98       |
| 40) 1,2,4,5-Tetrachloroben... | 9.033  | 216  | 118191   | 10.675  | ng    | 99       |
| 41) Hexachlorocyclopentadiene | 9.022  | 237  | 34867    | 11.239  | ng    | 97       |
| 43) 2,4,6-Trichlorophenol     | 9.145  | 196  | 67071    | 9.776   | ng    | 99       |

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|-------------------------------|--------|------|----------|--------|-------|----------|
| 44) 2,4,5-Trichlorophenol     | 9.180  | 196  | 70005    | 9.704  | ng    | 98       |
| 46) 1,1'-Biphenyl             | 9.333  | 154  | 294009   | 10.755 | ng    | 98       |
| 47) 2-Chloronaphthalene       | 9.357  | 162  | 208995   | 10.158 | ng    | 98       |
| 48) 2-Nitroaniline            | 9.451  | 65   | 65723    | 9.552  | ng    | 97       |
| 49) Acenaphthylene            | 9.775  | 152  | 334638   | 11.488 | ng    | 98       |
| 50) Dimethylphthalate         | 9.627  | 163  | 243388   | 10.450 | ng    | 100      |
| 51) 2,6-Dinitrotoluene        | 9.692  | 165  | 52303    | 9.553  | ng    | 99       |
| 52) Acenaphthene              | 9.945  | 154  | 206363   | 9.988  | ng    | 98       |
| 53) 3-Nitroaniline            | 9.863  | 138  | 53976    | 10.470 | ng    | 95       |
| 54) 2,4-Dinitrophenol         | 9.969  | 184  | 9640     | 9.444  | ng    | 91       |
| 55) Dibenzofuran              | 10.116 | 168  | 312642   | 10.821 | ng    | 98       |
| 56) 4-Nitrophenol             | 10.016 | 139  | 30116    | 8.308  | ng    | 94       |
| 57) 2,4-Dinitrotoluene        | 10.092 | 165  | 68165    | 9.595  | ng    | 97       |
| 58) Fluorene                  | 10.463 | 166  | 240583   | 10.461 | ng    | 99       |
| 59) 2,3,4,6-Tetrachlorophenol | 10.233 | 232  | 58541    | 9.906  | ng    | 98       |
| 60) Diethylphthalate          | 10.333 | 149  | 238026   | 10.284 | ng    | 99       |
| 61) 4-Chlorophenyl-phenyle... | 10.457 | 204  | 119852   | 10.340 | ng    | 97       |
| 62) 4-Nitroaniline            | 10.469 | 138  | 50047    | 9.769  | ng    | 94       |
| 63) Azobenzene                | 10.616 | 77   | 247963   | 10.335 | ng    | 98       |
| 65) 4,6-Dinitro-2-methylph... | 10.504 | 198  | 23410    | 6.649  | ng    | 97       |
| 66) n-Nitrosodiphenylamine    | 10.574 | 169  | 207241   | 10.749 | ng    | 99       |
| 67) 4-Bromophenyl-phenylether | 10.945 | 248  | 76875    | 10.650 | ng    | 98       |
| 68) Hexachlorobenzene         | 11.010 | 284  | 84280    | 10.243 | ng    | 98       |
| 69) Atrazine                  | 11.092 | 200  | 70977    | 13.456 | ng    | 99       |
| 70) Pentachlorophenol         | 11.204 | 266  | 32781    | 7.419  | ng    | 96       |
| 71) Phenanthrene              | 11.427 | 178  | 349124   | 10.913 | ng    | 98       |
| 72) Anthracene                | 11.480 | 178  | 362392   | 11.552 | ng    | 98       |
| 73) Carbazole                 | 11.633 | 167  | 299120   | 10.436 | ng    | 99       |
| 74) Di-n-butylphthalate       | 11.963 | 149  | 361358   | 10.650 | ng    | 99       |
| 75) Fluoranthene              | 12.616 | 202  | 354155   | 10.587 | ng    | 98       |
| 77) Benzidine                 | 12.739 | 184  | 97226    | 11.784 | ng    | 97       |
| 78) Pyrene                    | 12.845 | 202  | 363527   | 10.433 | ng    | 99       |
| 80) Butylbenzylphthalate      | 13.468 | 149  | 129108   | 10.290 | ng    | 95       |
| 81) Benzo(a)anthracene        | 14.051 | 228  | 286920   | 10.594 | ng    | 99       |
| 82) 3,3'-Dichlorobenzidine    | 14.010 | 252  | 82563    | 9.708  | ng    | 99       |
| 83) Chrysene                  | 14.086 | 228  | 266469   | 10.507 | ng    | 98       |
| 84) Bis(2-ethylhexyl)phtha... | 14.039 | 149  | 183618   | 10.442 | ng    | 99       |
| 85) Di-n-octyl phthalate      | 14.686 | 149  | 254335   | 9.609  | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene    | 17.080 | 276  | 198782   | 9.138  | ng    | 99       |
| 88) Benzo(b)fluoranthene      | 15.133 | 252  | 227619   | 10.154 | ng    | 98       |
| 89) Benzo(k)fluoranthene      | 15.162 | 252  | 212367   | 10.324 | ng    | 99       |
| 90) Benzo(a)pyrene            | 15.509 | 252  | 190268   | 10.295 | ng    | 100      |
| 91) Dibenzo(a,h)anthracene    | 17.098 | 278  | 161538   | 9.026  | ng    | 99       |
| 92) Benzo(g,h,i)perylene      | 17.533 | 276  | 153045   | 8.382  | ng    | 99       |

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

