

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN011724\  
 Data File : BN029272.D  
 Acq On : 17 Jan 2024 15:12  
 Operator : MA/JU  
 Sample : 04696-04  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 MDL-SOIL-QT4-2023-08

Quant Time: Jan 18 01:04:39 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN011524.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Tue Jan 16 03:57:40 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 01/18/2024  
 Supervised By :Sohil Jodhani 01/18/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.940  | 152  | 150769   | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.746 | 136  | 697155   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.581 | 164  | 470608   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.333 | 188  | 1067714  | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.527 | 240  | 1074866  | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 23.945 | 264  | 1217378  | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.375  | 96   | 18955    | 5.192  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.781  | 84   | 259850   | 23.077 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.099  | 99   | 297953   | 20.597 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.281  | 67   | 197216   | 21.615 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.469  | 132  | 227357   | 22.218 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.652  | 113  | 241026   | 20.665 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 9.110  | 128  | 118537   | 23.437 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.828  | 143  | 98719    | 23.536 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.363 | 165  | 217738   | 20.855 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.887 | 131  | 363299   | 19.226 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.998 | 166  | 831341   | 21.461 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.275 | 160  | 931340   | 21.348 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.775 | 143  | 128558   | 19.068 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.575 | 176  | 715652   | 21.677 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.692 | 200  | 75246    | 16.758 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.427 | 188  | 1071504  | 19.963 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.727 | 212  | 1305701  | 21.861 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.786 | 264  | 1366862  | 21.785 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.411  | 88   | 4152m    | 1.121  | ng/uL  |          |
| 5) Pyridine                   | 3.805  | 79   | 48599    | 4.225  | ng/u1# | 73       |
| 6) Benzaldehyde               | 7.087  | 77   | 40435m   | 6.228  | ng/u1  |          |
| 8) Phenol                     | 7.128  | 94   | 58843    | 4.002  | ng/u1  | 98       |
| 10) Bis(2-Chloroethyl)ether   | 7.375  | 93   | 50921    | 4.267  | ng/u1  | 99       |
| 12) 2-Chlorophenol            | 7.499  | 128  | 46807    | 4.394  | ng/u1  | 95       |
| 13) 2-Methylphenol            | 8.381  | 108  | 43650    | 3.898  | ng/u1  | 99       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.469  | 45   | 67656    | 4.434  | ng/u1  | 99       |
| 16) Acetophenone              | 8.769  | 105  | 81925    | 4.146  | ng/u1  | 96       |
| 17) N-Nitroso-di-n-propyla... | 8.757  | 70   | 43673    | 4.199  | ng/u1  | 97       |
| 18) 4-Methylphenol            | 8.710  | 108  | 50272    | 4.171  | ng/u1  | 97       |
| 19) Hexachloroethane          | 9.016  | 117  | 20739    | 4.289  | ng/u1  | 98       |
| 22) Nitrobenzene              | 9.151  | 77   | 63317    | 4.528  | ng/u1  | 98       |
| 23) Isophorone                | 9.675  | 82   | 119525   | 4.022  | ng/u1  | 98       |
| 25) 2-Nitrophenol             | 9.857  | 139  | 21688    | 4.416  | ng/u1  | 97       |
| 26) 2,4-Dimethylphenol        | 9.916  | 107  | 52276    | 3.981  | ng/u1  | 95       |
| 27) Bis(2-Chloroethoxy)met... | 10.169 | 93   | 71409    | 4.268  | ng/u1  | 99       |
| 29) 2,4-Dichlorophenol        | 10.387 | 162  | 43910    | 4.276  | ng/u1  | 97       |
| 30) Naphthalene               | 10.793 | 128  | 171811   | 4.322  | ng/u1  | 99       |
| 32) 4-Chloroaniline           | 10.910 | 127  | 73125    | 3.978  | ng/u1  | 97       |
| 33) Hexachlorobutadiene       | 11.069 | 225  | 30155    | 4.161  | ng/u1# | 86       |
| 34) Caprolactam               | 11.698 | 113  | 16789m   | 4.034  | ng/u1  |          |
| 35) 4-Chloro-3-methylphenol   | 12.028 | 107  | 48281    | 3.963  | ng/u1  | 98       |
| 36) 2-Methylnaphthalene       | 12.404 | 142  | 117301   | 4.220  | ng/u1  | 96       |

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| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.622 | 142  | 120534   | 4.370 | ng/ul  | 99       |
| 39) 1,2,4,5-Tetrachloroben... | 12.763 | 216  | 61576    | 4.198 | ng/ul# | 97       |
| 40) Hexachlorocyclopentadiene | 12.740 | 237  | 39480    | 4.020 | ng/ul# | 92       |
| 41) 2,4,6-Trichlorophenol     | 13.010 | 196  | 28864    | 3.552 | ng/ul  | 99       |
| 42) 2,4,5-Trichlorophenol     | 13.075 | 196  | 35341    | 3.873 | ng/ul  | 95       |
| 43) 1,1'-Biphenyl             | 13.416 | 154  | 159072   | 4.194 | ng/ul  | 99       |
| 44) 2-Chloronaphthalene       | 13.457 | 162  | 126904   | 4.284 | ng/ul  | 97       |
| 45) 2-Nitroaniline            | 13.663 | 65   | 30573    | 3.893 | ng/ul  | 100      |
| 47) Dimethylphthalate         | 14.045 | 163  | 165177   | 4.187 | ng/ul  | 99       |
| 48) 2,6-Dinitrotoluene        | 14.169 | 165  | 24093    | 3.778 | ng/ul  | 97       |
| 50) Acenaphthylene            | 14.304 | 152  | 209036   | 4.130 | ng/ul  | 98       |
| 51) 3-Nitroaniline            | 14.492 | 138  | 26900    | 3.883 | ng/ul  | 95       |
| 52) Acenaphthene              | 14.645 | 153  | 138526   | 4.169 | ng/ul  | 99       |
| 53) 2,4-Dinitrophenol         | 14.698 | 184  | 13054    | 4.789 | ng/ul  | 94       |
| 55) 4-Nitrophenol             | 14.792 | 109  | 28901    | 4.679 | ng/ul  | 97       |
| 56) Dibenzofuran              | 14.981 | 168  | 194222   | 4.322 | ng/ul  | 98       |
| 57) 2,4-Dinitrotoluene        | 14.951 | 165  | 37138    | 3.976 | ng/ul# | 97       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.198 | 232  | 26655    | 3.541 | ng/ul  | 96       |
| 59) Diethylphthalate          | 15.416 | 149  | 167131   | 4.061 | ng/ul  | 98       |
| 61) Fluorene                  | 15.628 | 166  | 159437   | 4.097 | ng/ul  | 100      |
| 62) 4-Chlorophenyl-phenyle... | 15.628 | 204  | 81037    | 4.262 | ng/ul  | 98       |
| 63) 4-Nitroaniline            | 15.651 | 138  | 29475m   | 4.321 | ng/ul  |          |
| 66) 4,6-Dinitro-2-methylph... | 15.704 | 198  | 20805    | 4.024 | ng/ul# | 77       |
| 67) N-Nitrosodiphenylamine    | 15.845 | 169  | 134333   | 4.149 | ng/ul  | 96       |
| 68) 4-Bromophenyl-phenylether | 16.528 | 248  | 34619    | 2.901 | ng/ul  | 91       |
| 69) Hexachlorobenzene         | 16.622 | 284  | 57808    | 4.024 | ng/ul  | 91       |
| 70) Atrazine                  | 16.804 | 200  | 53558    | 4.357 | ng/ul  | 93       |
| 71) Pentachlorophenol         | 16.969 | 266  | 28838    | 3.716 | ng/ul  | 95       |
| 72) Phenanthrene              | 17.369 | 178  | 260062   | 4.198 | ng/ul  | 99       |
| 74) Anthracene                | 17.463 | 178  | 255425   | 3.971 | ng/ul  | 99       |
| 75) 1,2,3,4-Tetrachloroben... | 13.375 | 216  | 59793    | 4.142 | ng/uL  | 93       |
| 76) Pentachlorobenzene        | 14.886 | 250  | 67350    | 4.507 | ng/uL  | 97       |
| 77) Carbazole                 | 17.739 | 167  | 224936   | 3.781 | ng/ul  | 98       |
| 78) Di-n-butylphthalate       | 18.322 | 149  | 264666   | 3.648 | ng/ul  | 99       |
| 80) Fluoranthene              | 19.392 | 202  | 297974   | 4.222 | ng/ul  | 98       |
| 82) Pyrene                    | 19.757 | 202  | 320028   | 4.269 | ng/ul  | 98       |
| 83) Butylbenzylphthalate      | 20.680 | 149  | 102239   | 3.488 | ng/ul  | 99       |
| 84) 3,3'-Dichlorobenzidine    | 21.451 | 252  | 101251   | 4.060 | ng/ul  | 97       |
| 85) Benzo(a)anthracene        | 21.510 | 228  | 334794   | 4.227 | ng/ul  | 94       |
| 86) Bis(2-ethylhexyl)phtha... | 21.468 | 149  | 171128   | 3.536 | ng/ul  | 98       |
| 87) Chrysene                  | 21.568 | 228  | 305412   | 4.169 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 22.415 | 149  | 256582   | 2.990 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.210 | 252  | 316830   | 4.104 | ng/ul  | 98       |
| 91) Benzo(k)fluoranthene      | 23.257 | 252  | 316270   | 4.111 | ng/ul  | 96       |
| 93) Benzo(a)pyrene            | 23.833 | 252  | 308277   | 4.212 | ng/ul  | 100      |
| 94) Indeno(1,2,3-cd)pyrene    | 26.439 | 276  | 357021   | 3.854 | ng/ul  | 98       |
| 95) Dibenzo(a,h)anthracene    | 26.462 | 278  | 302664   | 3.918 | ng/ul  | 99       |
| 96) Benzo(g,h,i)perylene      | 27.203 | 276  | 280643   | 3.794 | ng/ul  | 98       |

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

