

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN031224\  
 Data File : BN030369.D  
 Acq On : 12 Mar 2024 11:20  
 Operator : MA/JU  
 Sample : P1601-04  
 Misc : SFAM-MDL-SOIL-02  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 MDL-SOIL-QT1-2024-02

Quant Time: Mar 12 12:03:50 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\SFAM-EPA-BN030824.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Mar 08 13:57:34 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 03/13/2024  
 Supervised By :mohammad ahmed 03/14/2024

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.793  | 152  | 99413    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.587 | 136  | 387728   | 20.000 | ng/u1  | 0.00     |
| 38) Acenaphthene-d10          | 14.451 | 164  | 206395   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.210 | 188  | 407636   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.433 | 240  | 347684   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 23.786 | 264  | 375073   | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.270  | 96   | 16556    | 5.620  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.675  | 84   | 171637   | 24.408 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 6.963  | 99   | 177712   | 20.148 | ng/u1  | 0.00     |
| 9) Bis-(2-Chloroethyl)eth...  | 7.140  | 67   | 97824    | 19.532 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.322  | 132  | 154660   | 21.889 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.505  | 113  | 132407   | 19.046 | ng/u1  | 0.00     |
| 21) Nitrobenzene-d5           | 8.963  | 128  | 70658    | 21.840 | ng/u1  | 0.00     |
| 24) 2-Nitrophenol-d4          | 9.681  | 143  | 73899    | 21.787 | ng/u1  | 0.00     |
| 28) 2,4-Dichlorophenol-d3     | 10.210 | 165  | 126632   | 20.934 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.740 | 131  | 176458   | 19.654 | ng/u1  | 0.00     |
| 46) Dimethylphthalate-d6      | 13.875 | 166  | 361509   | 21.723 | ng/u1  | 0.00     |
| 49) Acenaphthylene-d8         | 14.140 | 160  | 415091   | 22.018 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.657 | 143  | 52809    | 17.898 | ng/u1  | 0.00     |
| 60) Fluorene-d10              | 15.451 | 176  | 295573   | 21.651 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.581 | 200  | 47625    | 18.705 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.310 | 188  | 388738   | 19.639 | ng/u1  | 0.00     |
| 81) Pyrene-d10                | 19.616 | 212  | 445230   | 20.164 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.633 | 264  | 430822   | 21.930 | ng/u1  | 0.00     |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.305  | 88   | 4057m    | 1.435  | ng/uL  |          |
| 5) Pyridine                   | 3.699  | 79   | 36339    | 5.079  | ng/u1# | 63       |
| 6) Benzaldehyde               | 6.946  | 77   | 24437    | 5.944  | ng/u1  | 93       |
| 8) Phenol                     | 6.993  | 94   | 38743    | 4.414  | ng/u1  | 98       |
| 10) Bis(2-Chloroethyl)ether   | 7.234  | 93   | 30762    | 4.385  | ng/u1  | 98       |
| 12) 2-Chlorophenol            | 7.352  | 128  | 34762    | 4.781  | ng/u1  | 95       |
| 13) 2-Methylphenol            | 8.240  | 108  | 27538    | 4.185  | ng/u1  | 97       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.334  | 45   | 26006    | 4.078  | ng/u1  | 95       |
| 16) Acetophenone              | 8.628  | 105  | 49741    | 4.452  | ng/u1  | 100      |
| 17) N-Nitroso-di-n-propyla... | 8.610  | 70   | 22363    | 4.183  | ng/u1  | 96       |
| 18) 4-Methylphenol            | 8.569  | 108  | 29155    | 4.193  | ng/u1  | 95       |
| 19) Hexachloroethane          | 8.858  | 117  | 15244    | 4.513  | ng/u1  | 98       |
| 22) Nitrobenzene              | 9.005  | 77   | 38261    | 4.583  | ng/u1  | 98       |
| 23) Isophorone                | 9.528  | 82   | 60809    | 4.213  | ng/u1  | 97       |
| 25) 2-Nitrophenol             | 9.710  | 139  | 16939    | 4.636  | ng/u1  | 98       |
| 26) 2,4-Dimethylphenol        | 9.769  | 107  | 24160    | 3.203  | ng/u1  | 90       |
| 27) Bis(2-Chloroethoxy)met... | 10.022 | 93   | 37737    | 4.458  | ng/u1  | 97       |
| 29) 2,4-Dichlorophenol        | 10.234 | 162  | 28665    | 4.718  | ng/u1  | 91       |
| 30) Naphthalene               | 10.640 | 128  | 107747   | 4.868  | ng/u1  | 99       |
| 32) 4-Chloroaniline           | 10.769 | 127  | 38500    | 4.409  | ng/u1  | 95       |
| 33) Hexachlorobutadiene       | 10.916 | 225  | 20535    | 4.845  | ng/u1  | 98       |
| 34) Caprolactam               | 11.557 | 113  | 7203m    | 3.981  | ng/u1  |          |
| 35) 4-Chloro-3-methylphenol   | 11.893 | 107  | 27563    | 4.009  | ng/u1  | 94       |
| 36) 2-Methylnaphthalene       | 12.257 | 142  | 68422    | 4.747  | ng/u1  | 95       |

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|-------------------------------|--------|------|----------|-------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.481 | 142  | 68240    | 4.789 | ng/ul  | 94       |
| 39) 1,2,4,5-Tetrachloroben... | 12.628 | 216  | 32537    | 4.992 | ng/ul  | 92       |
| 40) Hexachlorocyclopentadiene | 12.599 | 237  | 23424    | 4.798 | ng/ul  | 89       |
| 41) 2,4,6-Trichlorophenol     | 12.875 | 196  | 18166    | 4.393 | ng/ul  | 86       |
| 42) 2,4,5-Trichlorophenol     | 12.940 | 196  | 21025    | 4.653 | ng/ul  | 92       |
| 43) 1,1'-Biphenyl             | 13.281 | 154  | 85114    | 4.886 | ng/ul  | 98       |
| 44) 2-Chloronaphthalene       | 13.316 | 162  | 65213    | 4.820 | ng/ul  | 98       |
| 45) 2-Nitroaniline            | 13.540 | 65   | 14657    | 3.758 | ng/ul  | 93       |
| 47) Dimethylphthalate         | 13.922 | 163  | 80348    | 4.751 | ng/ul  | 99       |
| 48) 2,6-Dinitrotoluene        | 14.045 | 165  | 13530    | 4.143 | ng/ul  | 93       |
| 50) Acenaphthylene            | 14.169 | 152  | 108365   | 4.940 | ng/ul  | 99       |
| 51) 3-Nitroaniline            | 14.375 | 138  | 11799    | 3.687 | ng/ul  | 96       |
| 52) Acenaphthene              | 14.516 | 153  | 69537    | 4.785 | ng/ul  | 95       |
| 53) 2,4-Dinitrophenol         | 14.587 | 184  | 10101    | 5.504 | ng/ul  | 85       |
| 55) 4-Nitrophenol             | 14.675 | 109  | 15243    | 4.557 | ng/ul  | 92       |
| 56) Dibenzofuran              | 14.851 | 168  | 94606    | 4.881 | ng/ul  | 97       |
| 57) 2,4-Dinitrotoluene        | 14.834 | 165  | 19952    | 4.280 | ng/ul  | 98       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.081 | 232  | 16287    | 4.479 | ng/ul  | 94       |
| 59) Diethylphthalate          | 15.292 | 149  | 82112    | 4.542 | ng/ul  | 98       |
| 61) Fluorene                  | 15.504 | 166  | 77849    | 4.865 | ng/ul  | 97       |
| 62) 4-Chlorophenyl-phenyle... | 15.504 | 204  | 37780    | 4.932 | ng/ul  | 98       |
| 63) 4-Nitroaniline            | 15.540 | 138  | 11440m   | 3.861 | ng/ul  |          |
| 66) 4,6-Dinitro-2-methylph... | 15.592 | 198  | 13527    | 4.924 | ng/ul# | 85       |
| 67) N-Nitrosodiphenylamine    | 15.722 | 169  | 60535    | 4.707 | ng/ul  | 98       |
| 68) 4-Bromophenyl-phenylether | 16.404 | 248  | 20903    | 4.786 | ng/ul# | 77       |
| 69) Hexachlorobenzene         | 16.504 | 284  | 23366    | 4.885 | ng/ul  | 97       |
| 70) Atrazine                  | 16.687 | 200  | 23001    | 5.196 | ng/ul  | 97       |
| 71) Pentachlorophenol         | 16.857 | 266  | 16849    | 5.206 | ng/ul  | 91       |
| 72) Phenanthrene              | 17.251 | 178  | 114877   | 4.832 | ng/ul  | 97       |
| 74) Anthracene                | 17.345 | 178  | 110118   | 4.553 | ng/ul  | 98       |
| 75) 1,2,3,4-Tetrachloroben... | 13.240 | 216  | 31201    | 5.127 | ng/uL  | 97       |
| 76) Pentachlorobenzene        | 14.763 | 250  | 31339    | 5.522 | ng/uL  | 94       |
| 77) Carbazole                 | 17.622 | 167  | 89507    | 4.168 | ng/ul  | 98       |
| 78) Di-n-butylphthalate       | 18.204 | 149  | 123602   | 4.142 | ng/ul  | 100      |
| 80) Fluoranthene              | 19.281 | 202  | 115035   | 4.252 | ng/ul  | 100      |
| 82) Pyrene                    | 19.645 | 202  | 127739   | 4.594 | ng/ul  | 97       |
| 83) Butylbenzylphthalate      | 20.580 | 149  | 50144    | 3.764 | ng/ul  | 97       |
| 84) 3,3'-Dichlorobenzidine    | 21.363 | 252  | 36762    | 4.865 | ng/ul  | 95       |
| 85) Benzo(a)anthracene        | 21.416 | 228  | 119908   | 4.596 | ng/ul  | 98       |
| 86) Bis(2-ethylhexyl)phtha... | 21.369 | 149  | 78997    | 3.918 | ng/ul  | 99       |
| 87) Chrysene                  | 21.469 | 228  | 116548   | 4.816 | ng/ul  | 97       |
| 89) Di-n-octyl phthalate      | 22.292 | 149  | 129220   | 3.680 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.069 | 252  | 116119   | 4.695 | ng/ul  | 98       |
| 91) Benzo(k)fluoranthene      | 23.116 | 252  | 123059   | 4.818 | ng/ul  | 98       |
| 93) Benzo(a)pyrene            | 23.680 | 252  | 111194   | 4.751 | ng/ul  | 100      |
| 94) Indeno(1,2,3-cd)pyrene    | 26.210 | 276  | 130466   | 4.687 | ng/ul  | 98       |
| 95) Dibenzo(a,h)anthracene    | 26.233 | 278  | 110243   | 4.858 | ng/ul  | 97       |
| 96) Benzo(g,h,i)perylene      | 26.945 | 276  | 110255   | 4.891 | ng/ul  | 96       |

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

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