

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM011023\  
 Data File : BM038422.D  
 Acq On : 10 Jan 2023 13:36  
 Operator : CG/JU  
 Sample : N4239-06  
 Misc : SFAM-MDL-MES-02-4PPM  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-MED-SOIL-QT3-2022-06

Quant Time: Jan 10 14:10:28 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM010423.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Thu Jan 05 02:11:50 2023  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 01/11/2023  
 Supervised By :mohammad ahmed 01/12/2023

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| -----                         |        |      |          |        |        |          |
| Internal Standards            |        |      |          |        |        |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.992  | 152  | 71813    | 20.000 | ng/u1  | 0.00     |
| 20) Naphthalene-d8            | 10.804 | 136  | 281798   | 20.000 | ng/u1  | -0.01    |
| 38) Acenaphthene-d10          | 14.627 | 164  | 185217   | 20.000 | ng/u1  | 0.00     |
| 64) Phenanthrene-d10          | 17.368 | 188  | 432893   | 20.000 | ng/u1  | 0.00     |
| 79) Chrysene-d12              | 21.539 | 240  | 485652   | 20.000 | ng/u1  | 0.00     |
| 88) Perylene-d12              | 23.968 | 264  | 578204   | 20.000 | ng/u1  | 0.00     |
| System Monitoring Compounds   |        |      |          |        |        |          |
| 3) 1,4-Dioxane-d8             | 3.363  | 96   | 9478     | 4.280  | ng/uL  | 0.00     |
| 4) Pyridine-d5                | 3.799  | 84   | 86401    | 13.486 | ng/u1  | 0.00     |
| 7) Phenol-d5                  | 7.151  | 99   | 116174   | 17.758 | ng/u1  | -0.01    |
| 9) Bis-(2-Chloroethyl)eth...  | 7.322  | 67   | 88414    | 18.787 | ng/u1  | 0.00     |
| 11) 2-Chlorophenol-d4         | 7.522  | 132  | 86541    | 18.463 | ng/u1  | 0.00     |
| 15) 4-Methylphenol-d8         | 8.704  | 113  | 86796    | 17.188 | ng/u1  | -0.01    |
| 21) Nitrobenzene-d5           | 9.163  | 128  | 39353    | 17.800 | ng/u1  | -0.01    |
| 24) 2-Nitrophenol-d4          | 9.886  | 143  | 45326    | 18.077 | ng/u1  | -0.01    |
| 28) 2,4-Dichlorophenol-d3     | 10.428 | 165  | 84485    | 17.448 | ng/u1  | 0.00     |
| 31) 4-Chloroaniline-d4        | 10.945 | 131  | 107254   | 16.052 | ng/u1  | -0.01    |
| 46) Dimethylphthalate-d6      | 14.033 | 166  | 254049   | 18.111 | ng/u1  | -0.01    |
| 49) Acenaphthylene-d8         | 14.321 | 160  | 282332   | 17.272 | ng/u1  | 0.00     |
| 54) 4-Nitrophenol-d4          | 14.827 | 143  | 38489    | 15.242 | ng/u1  | -0.01    |
| 60) Fluorene-d10              | 15.616 | 176  | 223816   | 17.546 | ng/u1  | 0.00     |
| 65) 4,6-Dinitro-2-methylph... | 15.739 | 200  | 47817    | 15.241 | ng/u1  | 0.00     |
| 73) Anthracene-d10            | 17.462 | 188  | 356778   | 17.085 | ng/u1  | -0.01    |
| 81) Pyrene-d10                | 19.751 | 212  | 469105   | 17.358 | ng/u1  | 0.00     |
| 92) Benzo(a)pyrene-d12        | 23.809 | 264  | 531443   | 18.506 | ng/u1  | -0.01    |
| Target Compounds              |        |      |          |        |        |          |
|                               |        |      |          |        | Qvalue |          |
| 2) 1,4-Dioxane                | 3.399  | 88   | 3317     | 1.403  | ng/uL  | 97       |
| 5) Pyridine                   | 3.816  | 79   | 25470    | 3.764  | ng/u1# | 67       |
| 6) Benzaldehyde               | 7.134  | 77   | 15937    | 5.925  | ng/u1  | 96       |
| 8) Phenol                     | 7.181  | 94   | 28653    | 4.151  | ng/u1  | 97       |
| 10) Bis(2-Chloroethyl)ether   | 7.416  | 93   | 23410    | 4.236  | ng/u1  | 99       |
| 12) 2-Chlorophenol            | 7.551  | 128  | 20294    | 4.192  | ng/u1  | 94       |
| 13) 2-Methylphenol            | 8.440  | 108  | 17831    | 3.617  | ng/u1  | 98       |
| 14) 2,2'-oxybis(1-Chloropr... | 8.516  | 45   | 36214m   | 4.132  | ng/u1  |          |
| 16) Acetophenone              | 8.828  | 105  | 33149    | 3.710  | ng/u1  | 92       |
| 17) N-Nitroso-di-n-propyla... | 8.804  | 70   | 19794    | 4.112  | ng/u1  | 92       |
| 18) 4-Methylphenol            | 8.769  | 108  | 20120    | 3.751  | ng/u1  | 92       |
| 19) Hexachloroethane          | 9.069  | 117  | 9457     | 4.195  | ng/u1  | 92       |
| 22) Nitrobenzene              | 9.204  | 77   | 28900    | 3.963  | ng/u1  | 98       |
| 23) Isophorone                | 9.734  | 82   | 50509    | 4.040  | ng/u1  | 99       |
| 25) 2-Nitrophenol             | 9.922  | 139  | 10438    | 3.997  | ng/u1  | 96       |
| 26) 2,4-Dimethylphenol        | 9.975  | 107  | 22975    | 3.763  | ng/u1  | 98       |
| 27) Bis(2-Chloroethoxy)met... | 10.216 | 93   | 28590    | 3.997  | ng/u1  | 96       |
| 29) 2,4-Dichlorophenol        | 10.451 | 162  | 19526    | 4.147  | ng/u1  | 96       |
| 30) Naphthalene               | 10.857 | 128  | 60337    | 4.014  | ng/u1  | 98       |
| 32) 4-Chloroaniline           | 10.975 | 127  | 25001    | 3.672  | ng/u1  | 99       |
| 33) Hexachlorobutadiene       | 11.128 | 225  | 14714    | 4.197  | ng/u1  | 96       |
| 34) Caprolactam               | 11.769 | 113  | 5203m    | 3.872  | ng/u1  |          |
| 35) 4-Chloro-3-methylphenol   | 12.086 | 107  | 19638m   | 3.920  | ng/u1  |          |
| 36) 2-Methylnaphthalene       | 12.457 | 142  | 37338    | 3.811  | ng/u1  | 92       |

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Manual Integrations  
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 Supervised By :mohammad ahmed 01/12/2023

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.675 | 142  | 34096    | 3.364 | ng/ul  | 97       |
| 39) 1,2,4,5-Tetrachloroben... | 12.822 | 216  | 25873    | 3.951 | ng/ul  | 97       |
| 40) Hexachlorocyclopentadiene | 12.792 | 237  | 14077    | 3.044 | ng/ul# | 95       |
| 41) 2,4,6-Trichlorophenol     | 13.069 | 196  | 16001    | 3.937 | ng/ul  | 95       |
| 42) 2,4,5-Trichlorophenol     | 13.139 | 196  | 15472    | 3.552 | ng/ul  | 97       |
| 43) 1,1'-Biphenyl             | 13.463 | 154  | 52958    | 3.783 | ng/ul  | 97       |
| 44) 2-Chloronaphthalene       | 13.504 | 162  | 43120    | 3.772 | ng/ul  | 96       |
| 45) 2-Nitroaniline            | 13.716 | 65   | 13505    | 3.532 | ng/ul  | 95       |
| 47) Dimethylphthalate         | 14.080 | 163  | 57403    | 4.033 | ng/ul  | 100      |
| 48) 2,6-Dinitrotoluene        | 14.210 | 165  | 9863     | 3.639 | ng/ul# | 89       |
| 50) Acenaphthylene            | 14.351 | 152  | 67860    | 3.913 | ng/ul  | 99       |
| 51) 3-Nitroaniline            | 14.545 | 138  | 8691m    | 3.482 | ng/ul  |          |
| 52) Acenaphthene              | 14.686 | 153  | 47464    | 3.868 | ng/ul  | 97       |
| 53) 2,4-Dinitrophenol         | 14.751 | 184  | 9736     | 4.805 | ng/ul  | 96       |
| 55) 4-Nitrophenol             | 14.845 | 109  | 9455     | 3.577 | ng/ul  | 92       |
| 56) Dibenzofuran              | 15.021 | 168  | 67009    | 3.842 | ng/ul  | 97       |
| 57) 2,4-Dinitrotoluene        | 14.998 | 165  | 14571    | 3.675 | ng/ul# | 95       |
| 58) 2,3,4,6-Tetrachlorophenol | 15.245 | 232  | 14673    | 3.771 | ng/ul# | 93       |
| 59) Diethylphthalate          | 15.439 | 149  | 58342    | 3.954 | ng/ul  | 97       |
| 61) Fluorene                  | 15.668 | 166  | 55000    | 3.673 | ng/ul  | 99       |
| 62) 4-Chlorophenyl-phenyle... | 15.663 | 204  | 31064    | 3.942 | ng/ul  | 96       |
| 63) 4-Nitroaniline            | 15.704 | 138  | 8920m    | 3.735 | ng/ul  |          |
| 66) 4,6-Dinitro-2-methylph... | 15.751 | 198  | 12563    | 4.179 | ng/ul# | 76       |
| 67) N-Nitrosodiphenylamine    | 15.874 | 169  | 46806    | 3.792 | ng/ul  | 97       |
| 68) 4-Bromophenyl-phenylether | 16.557 | 248  | 17675    | 3.854 | ng/ul  | 97       |
| 69) Hexachlorobenzene         | 16.668 | 284  | 20654    | 3.905 | ng/ul  | 92       |
| 70) Atrazine                  | 16.821 | 200  | 21302    | 4.175 | ng/ul  | 99       |
| 71) Pentachlorophenol         | 17.015 | 266  | 13237    | 3.792 | ng/ul  | 99       |
| 72) Phenanthrene              | 17.410 | 178  | 93192    | 3.946 | ng/ul  | 99       |
| 74) Anthracene                | 17.498 | 178  | 91754    | 3.778 | ng/ul  | 99       |
| 75) 1,2,3,4-Tetrachloroben... | 13.427 | 216  | 22964    | 3.515 | ng/uL  | 100      |
| 76) Pentachlorobenzene        | 14.939 | 250  | 21439    | 3.405 | ng/uL  | 97       |
| 77) Carbazole                 | 17.774 | 167  | 75412    | 3.386 | ng/ul  | 99       |
| 78) Di-n-butylphthalate       | 18.321 | 149  | 101571   | 3.817 | ng/ul  | 100      |
| 80) Fluoranthene              | 19.421 | 202  | 112046   | 3.666 | ng/ul# | 97       |
| 82) Pyrene                    | 19.780 | 202  | 126526   | 3.799 | ng/ul  | 99       |
| 83) Butylbenzylphthalate      | 20.668 | 149  | 46334    | 3.627 | ng/ul  | 98       |
| 84) 3,3'-Dichlorobenzidine    | 21.456 | 252  | 34882    | 3.444 | ng/ul  | 97       |
| 85) Benzo(a)anthracene        | 21.521 | 228  | 131275   | 3.798 | ng/ul  | 98       |
| 86) Bis(2-ethylhexyl)phtha... | 21.433 | 149  | 73173    | 3.711 | ng/ul  | 99       |
| 87) Chrysene                  | 21.580 | 228  | 125271   | 3.773 | ng/ul  | 98       |
| 89) Di-n-octyl phthalate      | 22.368 | 149  | 135090   | 3.266 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.227 | 252  | 144289   | 3.944 | ng/ul  | 97       |
| 91) Benzo(k)fluoranthene      | 23.274 | 252  | 132333   | 3.602 | ng/ul  | 99       |
| 93) Benzo(a)pyrene            | 23.856 | 252  | 129798   | 3.920 | ng/ul  | 99       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.497 | 276  | 166352   | 3.954 | ng/ul  | 98       |
| 95) Dibenzo(a,h)anthracene    | 26.515 | 278  | 138195   | 3.936 | ng/ul  | 98       |
| 96) Benzo(g,h,i)perylene      | 27.279 | 276  | 138036   | 4.007 | ng/ul  | 97       |

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

