

Data Path : Z:\svoasrv\HPCHEM1\BNA\_P\Data\BP112524\  
 Data File : BP023315.D  
 Acq On : 25 Nov 2024 14:19  
 Operator : RC/JU  
 Sample : P4776-02  
 Misc : MDL-WATER-QT4-2024  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_P  
 ClientSampleId :  
 MDL-WATER-QT4-2024-08

Quant Time: Nov 26 00:11:22 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_P\Methods\SFAM-EPA-BP110924.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Nov 20 04:34:35 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh  
 Patel  
 11/27/2024

Supervised By :mohammad  
 alhadi  
 11/27/2024

| Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------|--------|------|----------|--------|-------|----------|
| Internal Standards        |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4 | 7.564  | 152  | 59501    | 20.000 | ng/u1 | 0.00     |
| 20) Naphthalene-d8        | 10.305 | 136  | 229648   | 20.000 | ng/u1 | -0.01    |
| 38) Acenaphthene-d10      | 14.163 | 164  | 189046   | 20.000 | ng/u1 | -0.02    |
| 64) Phenanthrene-d10      | 16.975 | 188  | 500532   | 20.000 | ng/u1 | -0.02    |
| 79) Chrysene-d12          | 21.404 | 240  | 609936   | 20.000 | ng/u1 | -0.02    |
| 88) Perylene-d12          | 24.592 | 264  | 747785   | 20.000 | ng/u1 | -0.04    |

|                               |        |     |        |        |       |       |
|-------------------------------|--------|-----|--------|--------|-------|-------|
| System Monitoring Compounds   |        |     |        |        |       |       |
| 3) 1,4-Dioxane-d8             | 3.128  | 96  | 5231   | 4.226  | ng/uL | 0.00  |
| 4) Pyridine-d5                | 3.552  | 84  | 44689  | 12.151 | ng/u1 | 0.00  |
| 7) Phenol-d5                  | 6.781  | 99  | 52582  | 11.953 | ng/u1 | 0.00  |
| 9) Bis-(2-Chloroethyl)eth...  | 6.916  | 67  | 36487  | 14.117 | ng/u1 | 0.00  |
| 11) 2-Chlorophenol-d4         | 7.116  | 132 | 40375  | 12.532 | ng/u1 | 0.00  |
| 15) 4-Methylphenol-d8         | 8.287  | 113 | 42021  | 11.608 | ng/u1 | 0.00  |
| 21) Nitrobenzene-d5           | 8.710  | 128 | 20077  | 12.558 | ng/u1 | 0.00  |
| 24) 2-Nitrophenol-d4          | 9.422  | 143 | 23573  | 12.368 | ng/u1 | 0.00  |
| 28) 2,4-Dichlorophenol-d3     | 9.981  | 165 | 49025m | 12.282 | ng/u1 | 0.02  |
| 31) 4-Chloroaniline-d4        | 10.475 | 131 | 51699  | 10.857 | ng/u1 | 0.00  |
| 46) Dimethylphthalate-d6      | 13.575 | 166 | 190134 | 13.955 | ng/u1 | -0.01 |
| 49) Acenaphthylene-d8         | 13.857 | 160 | 189854 | 13.354 | ng/u1 | -0.02 |
| 54) 4-Nitrophenol-d4          | 14.498 | 143 | 26450m | 12.918 | ng/u1 | 0.04  |
| 60) Fluorene-d10              | 15.181 | 176 | 166967 | 13.977 | ng/u1 | -0.02 |
| 65) 4,6-Dinitro-2-methylph... | 15.340 | 200 | 31517  | 10.511 | ng/u1 | -0.01 |
| 73) Anthracene-d10            | 17.075 | 188 | 281762 | 13.295 | ng/u1 | -0.02 |
| 81) Pyrene-d10                | 19.463 | 212 | 388231 | 13.819 | ng/u1 | -0.02 |
| 92) Benzo(a)pyrene-d12        | 24.374 | 264 | 487391 | 13.683 | ng/u1 | -0.05 |

|                               |        |     |        |        |        |     |
|-------------------------------|--------|-----|--------|--------|--------|-----|
| Target Compounds              |        |     |        | Qvalue |        |     |
| 2) 1,4-Dioxane                | 3.164  | 88  | 1816m  | 1.270  | ng/uL  |     |
| 5) Pyridine                   | 3.575  | 79  | 12072  | 3.268  | ng/u1# | 74  |
| 6) Benzaldehyde               | 6.752  | 77  | 12477  | 4.929  | ng/u1# | 76  |
| 8) Phenol                     | 6.805  | 94  | 18539  | 4.036  | ng/u1  | 92  |
| 10) Bis(2-Chloroethyl)ether   | 7.011  | 93  | 15811  | 4.580  | ng/u1# | 93  |
| 12) 2-Chlorophenol            | 7.146  | 128 | 14642  | 4.377  | ng/u1# | 86  |
| 13) 2-Methylphenol            | 8.028  | 108 | 12938  | 3.773  | ng/u1  | 98  |
| 14) 2,2'-oxybis(1-Chloropr... | 8.069  | 45  | 20582  | 5.267  | ng/u1# | 94  |
| 16) Acetophenone              | 8.387  | 105 | 24996  | 4.109  | ng/u1# | 91  |
| 17) N-Nitroso-di-n-propyla... | 8.358  | 70  | 14410  | 4.744  | ng/u1  | 98  |
| 18) 4-Methylphenol            | 8.358  | 108 | 15804m | 4.173  | ng/u1  |     |
| 19) Hexachloroethane          | 8.605  | 117 | 7635   | 4.720  | ng/u1  | 97  |
| 22) Nitrobenzene              | 8.752  | 77  | 22207  | 4.841  | ng/u1  | 91  |
| 23) Isophorone                | 9.263  | 82  | 37687  | 4.594  | ng/u1  | 98  |
| 25) 2-Nitrophenol             | 9.458  | 139 | 8015   | 3.984  | ng/u1  | 90  |
| 26) 2,4-Dimethylphenol        | 9.528  | 107 | 16256  | 3.742  | ng/u1  | 98  |
| 27) Bis(2-Chloroethoxy)met... | 9.740  | 93  | 19275  | 4.271  | ng/u1  | 97  |
| 29) 2,4-Dichlorophenol        | 10.010 | 162 | 16581m | 4.194  | ng/u1  |     |
| 30) Naphthalene               | 10.352 | 128 | 52239  | 4.682  | ng/u1  | 97  |
| 32) 4-Chloroaniline           | 10.493 | 127 | 17651  | 3.826  | ng/u1  | 100 |
| 33) Hexachlorobutadiene       | 10.622 | 225 | 15673  | 4.381  | ng/u1  | 89  |
| 34) Caprolactam               | 11.310 | 113 | 5331m  | 4.533  | ng/u1  |     |
| 35) 4-Chloro-3-methylphenol   | 11.652 | 107 | 16652m | 3.915  | ng/u1  |     |
| 36) 2-Methylnaphthalene       | 11.975 | 142 | 36621  | 4.348  | ng/u1  | 97  |

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Reviewed By :Yogesh  
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Supervised By :mohammad  
 ali  
 11/25/2024

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.193 | 142  | 33287    | 3.866 | ng/ul  | 99       |
| 39) 1,2,4,5-Tetrachloroben... | 12.351 | 216  | 28135    | 4.408 | ng/ul  | 98       |
| 40) Hexachlorocyclopentadiene | 12.304 | 237  | 13922    | 4.153 | ng/ul  | 98       |
| 41) 2,4,6-Trichlorophenol     | 12.616 | 196  | 15393m   | 3.961 | ng/ul  |          |
| 42) 2,4,5-Trichlorophenol     | 12.722 | 196  | 16318    | 3.895 | ng/ul  | 93       |
| 43) 1,1'-Biphenyl             | 12.993 | 154  | 53100    | 4.384 | ng/ul  | 97       |
| 44) 2-Chloronaphthalene       | 13.040 | 162  | 43724    | 4.416 | ng/ul  | 96       |
| 45) 2-Nitroaniline            | 13.287 | 65   | 11657m   | 4.193 | ng/ul  |          |
| 47) Dimethylphthalate         | 13.628 | 163  | 59856    | 4.455 | ng/ul  | 98       |
| 48) 2,6-Dinitrotoluene        | 13.769 | 165  | 10245    | 3.920 | ng/ul  | 90       |
| 50) Acenaphthylene            | 13.881 | 152  | 66851    | 4.652 | ng/ul  | 98       |
| 51) 3-Nitroaniline            | 14.140 | 138  | 7954     | 3.533 | ng/ul  | 82       |
| 52) Acenaphthene              | 14.222 | 153  | 46810    | 4.487 | ng/ul  | 97       |
| 53) 2,4-Dinitrophenol         | 14.375 | 184  | 11435    | 6.166 | ng/ul  | 91       |
| 55) 4-Nitrophenol             | 14.493 | 109  | 9019m    | 3.765 | ng/ul  |          |
| 56) Dibenzofuran              | 14.575 | 168  | 71309    | 4.424 | ng/ul  | 93       |
| 57) 2,4-Dinitrotoluene        | 14.575 | 165  | 17044    | 4.091 | ng/ul# | 65       |
| 58) 2,3,4,6-Tetrachlorophenol | 14.834 | 232  | 17247    | 4.211 | ng/ul# | 95       |
| 59) Diethylphthalate          | 15.010 | 149  | 60581    | 4.559 | ng/ul  | 95       |
| 61) Fluorene                  | 15.234 | 166  | 59003    | 4.472 | ng/ul  | 98       |
| 62) 4-Chlorophenyl-phenyle... | 15.228 | 204  | 35481    | 4.567 | ng/ul  | 98       |
| 63) 4-Nitroaniline            | 15.316 | 138  | 7991m    | 3.815 | ng/ul  |          |
| 66) 4,6-Dinitro-2-methylph... | 15.357 | 198  | 13750    | 4.293 | ng/ul# | 95       |
| 67) N-Nitrosodiphenylamine    | 15.457 | 169  | 53045    | 4.586 | ng/ul  | 96       |
| 68) 4-Bromophenyl-phenylether | 16.145 | 248  | 24577    | 4.336 | ng/ul  | 94       |
| 69) Hexachlorobenzene         | 16.263 | 284  | 30586    | 4.287 | ng/ul  | 98       |
| 70) Atrazine                  | 16.439 | 200  | 24628    | 4.405 | ng/ul  | 92       |
| 71) Pentachlorophenol         | 16.634 | 266  | 29206    | 6.593 | ng/ul  | 100      |
| 72) Phenanthrene              | 17.016 | 178  | 108318   | 4.583 | ng/ul  | 98       |
| 74) Anthracene                | 17.104 | 178  | 104130   | 4.382 | ng/ul  | 99       |
| 75) 1,2,3,4-Tetrachloroben... | 12.963 | 216  | 26000    | 3.934 | ng/uL  | 93       |
| 76) Pentachlorobenzene        | 14.498 | 250  | 29684    | 3.934 | ng/uL  | 96       |
| 77) Carbazole                 | 17.416 | 167  | 84311    | 4.067 | ng/ul  | 99       |
| 78) Di-n-butylphthalate       | 17.981 | 149  | 99670    | 4.333 | ng/ul  | 98       |
| 80) Fluoranthene              | 19.122 | 202  | 142129   | 4.391 | ng/ul  | 99       |
| 82) Pyrene                    | 19.498 | 202  | 158844   | 4.568 | ng/ul  | 99       |
| 83) Butylbenzylphthalate      | 20.439 | 149  | 48693    | 4.254 | ng/ul  | 90       |
| 84) 3,3'-Dichlorobenzidine    | 21.322 | 252  | 46437    | 3.392 | ng/ul  | 94       |
| 85) Benzo(a)anthracene        | 21.386 | 228  | 169897   | 4.562 | ng/ul  | 98       |
| 86) Bis(2-ethylhexyl)phtha... | 21.310 | 149  | 67741    | 4.164 | ng/ul  | 97       |
| 87) Chrysene                  | 21.451 | 228  | 165551   | 4.724 | ng/ul  | 99       |
| 89) Di-n-octyl phthalate      | 22.516 | 149  | 123984   | 4.087 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 23.586 | 252  | 182319   | 4.380 | ng/ul  | 96       |
| 91) Benzo(k)fluoranthene      | 23.657 | 252  | 186657   | 4.556 | ng/ul# | 97       |
| 93) Benzo(a)pyrene            | 24.433 | 252  | 158905m  | 4.223 | ng/ul  |          |
| 94) Indeno(1,2,3-cd)pyrene    | 28.227 | 276  | 232956m  | 4.444 | ng/ul  |          |
| 95) Dibenzo(a,h)anthracene    | 28.280 | 278  | 187043m  | 4.395 | ng/ul  |          |
| 96) Benzo(g,h,i)perylene      | 29.356 | 276  | 181534m  | 4.559 | ng/ul  |          |

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

