

Data Path : Z:\svoasrv\HPCHEM1\BNA\_M\Data\BM080924\  
 Data File : BM047093.D  
 Acq On : 08 Aug 2024 19:27  
 Operator : RC/JU  
 Sample : P3435-07MSD  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 E05W8MSD

Quant Time: Aug 08 23:09:11 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_M\Methods\SFAM-EPA-BM080224.MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Aug 07 04:48:25 2024  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Yogesh  
 Patel

08/09/2024  
 Supervised By :mohammad  
 ahmed

| Compound                  | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|---------------------------|--------|------|----------|--------|-------|----------|
| -----                     |        |      |          |        |       |          |
| Internal Standards        |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4 | 7.387  | 152  | 219210   | 20.000 | ng/u1 | -0.01    |
| 20) Naphthalene-d8        | 10.145 | 136  | 890760   | 20.000 | ng/u1 | -0.01    |
| 38) Acenaphthene-d10      | 14.045 | 164  | 585527   | 20.000 | ng/u1 | 0.00     |
| 64) Phenanthrene-d10      | 16.804 | 188  | 1254075  | 20.000 | ng/u1 | -0.01    |
| 79) Chrysene-d12          | 21.039 | 240  | 1038350  | 20.000 | ng/u1 | -0.01    |
| 88) Perylene-d12          | 23.738 | 264  | 1201429  | 20.000 | ng/u1 | -0.02    |

|                               |        |     |         |        |       |       |
|-------------------------------|--------|-----|---------|--------|-------|-------|
| System Monitoring Compounds   |        |     |         |        |       |       |
| 3) 1,4-Dioxane-d8             | 3.016  | 96  | 26904   | 4.862  | ng/uL | 0.00  |
| 4) Pyridine-d5                | 3.405  | 84  | 393607  | 26.079 | ng/u1 | 0.00  |
| 7) Phenol-d5                  | 6.593  | 99  | 566085  | 33.995 | ng/u1 | -0.01 |
| 9) Bis-(2-Chloroethyl)eth...  | 6.745  | 67  | 334123  | 30.495 | ng/u1 | -0.01 |
| 11) 2-Chlorophenol-d4         | 6.934  | 132 | 429088  | 30.419 | ng/u1 | 0.00  |
| 15) 4-Methylphenol-d8         | 8.110  | 113 | 462089  | 35.029 | ng/u1 | -0.01 |
| 21) Nitrobenzene-d5           | 8.534  | 128 | 207041  | 28.966 | ng/u1 | -0.01 |
| 24) 2-Nitrophenol-d4          | 9.245  | 143 | 232270  | 29.756 | ng/u1 | -0.01 |
| 28) 2,4-Dichlorophenol-d3     | 9.781  | 165 | 485756  | 32.412 | ng/u1 | -0.01 |
| 31) 4-Chloroaniline-d4        | 10.292 | 131 | 596452  | 30.282 | ng/u1 | -0.01 |
| 46) Dimethylphthalate-d6      | 13.474 | 166 | 1433334 | 32.015 | ng/u1 | 0.00  |
| 49) Acenaphthylene-d8         | 13.727 | 160 | 1612781 | 32.273 | ng/u1 | -0.01 |
| 54) 4-Nitrophenol-d4          | 14.286 | 143 | 224899  | 25.981 | ng/u1 | -0.01 |
| 60) Fluorene-d10              | 15.045 | 176 | 1227390 | 32.048 | ng/u1 | -0.01 |
| 65) 4,6-Dinitro-2-methylph... | 15.192 | 200 | 179145  | 22.610 | ng/u1 | 0.00  |
| 73) Anthracene-d10            | 16.904 | 188 | 1951029 | 32.817 | ng/u1 | 0.00  |
| 81) Pyrene-d10                | 19.215 | 212 | 2213404 | 37.238 | ng/u1 | -0.01 |
| 92) Benzo(a)pyrene-d12        | 23.556 | 264 | 2271253 | 35.901 | ng/u1 | -0.02 |

|                               |        |     |         |        |        |     |
|-------------------------------|--------|-----|---------|--------|--------|-----|
| Target Compounds              |        |     |         | Qvalue |        |     |
| 2) 1,4-Dioxane                | 3.046  | 88  | 86005   | 13.969 | ng/uL  | 99  |
| 5) Pyridine                   | 3.422  | 79  | 591705  | 39.600 | ng/u1  | 93  |
| 6) Benzaldehyde               | 6.551  | 77  | 435407  | 45.522 | ng/u1  | 98  |
| 8) Phenol                     | 6.622  | 94  | 759209  | 45.272 | ng/u1  | 91  |
| 10) Bis(2-Chloroethyl)ether   | 6.840  | 93  | 606157  | 42.407 | ng/u1  | 98  |
| 12) 2-Chlorophenol            | 6.963  | 128 | 603028  | 42.197 | ng/u1  | 98  |
| 13) 2-Methylphenol            | 7.845  | 108 | 567859  | 44.451 | ng/u1  | 96  |
| 14) 2,2'-oxybis(1-Chloropr... | 7.910  | 45  | 812378  | 47.428 | ng/u1  | 97  |
| 16) Acetophenone              | 8.204  | 105 | 875262  | 42.155 | ng/u1  | 98  |
| 17) N-Nitroso-di-n-propyla... | 8.198  | 70  | 461454  | 42.145 | ng/u1  | 99  |
| 18) 4-Methylphenol            | 8.175  | 108 | 626796  | 45.411 | ng/u1  | 100 |
| 19) Hexachloroethane          | 8.440  | 117 | 259337  | 37.254 | ng/u1  | 93  |
| 22) Nitrobenzene              | 8.575  | 77  | 747812  | 39.159 | ng/u1  | 95  |
| 23) Isophorone                | 9.104  | 82  | 1355256 | 41.475 | ng/u1  | 99  |
| 25) 2-Nitrophenol             | 9.275  | 139 | 362681  | 42.473 | ng/u1# | 91  |
| 26) 2,4-Dimethylphenol        | 9.357  | 107 | 614462  | 36.507 | ng/u1  | 96  |
| 27) Bis(2-Chloroethoxy)met... | 9.586  | 93  | 837367  | 41.570 | ng/u1  | 100 |
| 29) 2,4-Dichlorophenol        | 9.810  | 162 | 615845  | 41.201 | ng/u1  | 99  |
| 30) Naphthalene               | 10.192 | 128 | 1859898 | 39.436 | ng/u1  | 99  |
| 32) 4-Chloroaniline           | 10.316 | 127 | 704331  | 36.823 | ng/u1  | 98  |
| 33) Hexachlorobutadiene       | 10.481 | 225 | 366496  | 33.986 | ng/u1  | 98  |
| 34) Caprolactam               | 11.110 | 113 | 208889m | 46.149 | ng/u1  |     |
| 35) 4-Chloro-3-methylphenol   | 11.463 | 107 | 650688  | 42.217 | ng/u1  | 96  |
| 36) 2-Methylnaphthalene       | 11.816 | 142 | 1327035 | 40.297 | ng/u1  | 100 |

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| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 37) 1-Methylnaphthalene       | 12.045 | 142  | 1327127  | 39.810 | ng/ul  | 99       |
| 39) 1,2,4,5-Tetrachloroben... | 12.198 | 216  | 718372   | 39.120 | ng/ul  | 99       |
| 40) Hexachlorocyclopentadiene | 12.175 | 237  | 305469   | 25.253 | ng/ul  | 97       |
| 41) 2,4,6-Trichlorophenol     | 12.457 | 196  | 507339   | 42.210 | ng/ul  | 98       |
| 42) 2,4,5-Trichlorophenol     | 12.533 | 196  | 554464   | 42.725 | ng/ul  | 98       |
| 43) 1,1'-Biphenyl             | 12.863 | 154  | 1748398  | 39.913 | ng/ul  | 97       |
| 44) 2-Chloronaphthalene       | 12.898 | 162  | 1400612  | 40.263 | ng/ul  | 99       |
| 45) 2-Nitroaniline            | 13.122 | 65   | 479337   | 45.344 | ng/ul  | 99       |
| 47) Dimethylphthalate         | 13.522 | 163  | 1806517  | 40.213 | ng/ul  | 100      |
| 48) 2,6-Dinitrotoluene        | 13.639 | 165  | 396857   | 45.443 | ng/ul# | 85       |
| 50) Acenaphthylene            | 13.757 | 152  | 2207435  | 41.825 | ng/ul  | 99       |
| 51) 3-Nitroaniline            | 13.969 | 138  | 421074   | 47.344 | ng/ul  | 96       |
| 52) Acenaphthene              | 14.110 | 153  | 1520879  | 39.971 | ng/ul  | 99       |
| 53) 2,4-Dinitrophenol         | 14.180 | 184  | 233581   | 37.907 | ng/ul  | 93       |
| 55) 4-Nitrophenol             | 14.304 | 109  | 318237   | 36.324 | ng/ul# | 83       |
| 56) Dibenzofuran              | 14.451 | 168  | 2092503  | 39.185 | ng/ul  | 95       |
| 57) 2,4-Dinitrotoluene        | 14.439 | 165  | 576158   | 43.172 | ng/ul  | 99       |
| 58) 2,3,4,6-Tetrachlorophenol | 14.686 | 232  | 465306   | 40.333 | ng/ul# | 94       |
| 59) Diethylphthalate          | 14.904 | 149  | 1864180  | 38.574 | ng/ul  | 99       |
| 61) Fluorene                  | 15.104 | 166  | 1748598  | 39.700 | ng/ul  | 97       |
| 62) 4-Chlorophenyl-phenyle... | 15.110 | 204  | 814945   | 37.584 | ng/ul  | 95       |
| 63) 4-Nitroaniline            | 15.145 | 138  | 439292m  | 49.980 | ng/ul  |          |
| 66) 4,6-Dinitro-2-methylph... | 15.204 | 198  | 337231   | 38.898 | ng/ul  | 93       |
| 67) N-Nitrosodiphenylamine    | 15.327 | 169  | 1512768  | 40.697 | ng/ul  | 98       |
| 68) 4-Bromophenyl-phenylether | 16.004 | 248  | 542027   | 39.932 | ng/ul  | 95       |
| 69) Hexachlorobenzene         | 16.110 | 284  | 644553   | 40.326 | ng/ul  | 98       |
| 70) Atrazine                  | 16.298 | 200  | 488128   | 33.470 | ng/ul  | 99       |
| 71) Pentachlorophenol         | 16.463 | 266  | 423989   | 39.181 | ng/ul  | 97       |
| 72) Phenanthrene              | 16.845 | 178  | 2878858  | 40.952 | ng/ul  | 100      |
| 74) Anthracene                | 16.939 | 178  | 2852153  | 40.231 | ng/ul  | 100      |
| 75) 1,2,3,4-Tetrachloroben... | 12.822 | 216  | 708924   | 39.290 | ng/ul  | 97       |
| 76) Pentachlorobenzene        | 14.369 | 250  | 698395   | 37.393 | ng/ul  | 99       |
| 77) Carbazole                 | 17.215 | 167  | 2746663  | 41.791 | ng/ul  | 99       |
| 78) Di-n-butylphthalate       | 17.804 | 149  | 3359885  | 40.202 | ng/ul  | 98       |
| 80) Fluoranthene              | 18.880 | 202  | 3322245  | 46.768 | ng/ul  | 99       |
| 82) Pyrene                    | 19.245 | 202  | 3474821  | 45.907 | ng/ul  | 97       |
| 83) Butylbenzylphthalate      | 20.180 | 149  | 1577574  | 47.685 | ng/ul  | 99       |
| 84) 3,3'-Dichlorobenzidine    | 20.962 | 252  | 1012631  | 39.781 | ng/ul  | 100      |
| 85) Benzo(a)anthracene        | 21.021 | 228  | 3296381  | 43.468 | ng/ul  | 99       |
| 86) Bis(2-ethylhexyl)phtha... | 20.980 | 149  | 2188566  | 45.315 | ng/ul  | 99       |
| 87) Chrysene                  | 21.080 | 228  | 3053313  | 42.215 | ng/ul  | 100      |
| 89) Di-n-octyl phthalate      | 22.015 | 149  | 3855591  | 45.490 | ng/ul  | 100      |
| 90) Benzo(b)fluoranthene      | 22.897 | 252  | 3288969  | 44.256 | ng/ul  | 99       |
| 91) Benzo(k)fluoranthene      | 22.950 | 252  | 3270001  | 44.526 | ng/ul  | 98       |
| 93) Benzo(a)pyrene            | 23.615 | 252  | 2953188  | 42.654 | ng/ul  | 99       |
| 94) Indeno(1,2,3-cd)pyrene    | 26.744 | 276  | 3850779  | 43.410 | ng/ul  | 99       |
| 95) Dibenzo(a,h)anthracene    | 26.797 | 278  | 3058215  | 42.921 | ng/ul  | 99       |
| 96) Benzo(g,h,i)perylene      | 27.674 | 276  | 3047371  | 43.480 | ng/ul  | 96       |

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

