

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN010821\  
 Data File : VN065437.D  
 Acq On : 8 Jan 2021 12:14  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

MMDadoda  
 1/11/2021 6:20:57 PM

Quant Time: Jan 08 22:44:35 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122220W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 22 15:42:18 2020  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 7.627  | 168   | 360767   | 50.00    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.550  | 114   | 517357   | 50.00    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.380 | 117   | 473042   | 50.00    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.315 | 152   | 240335   | 50.00    | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 7.987  | 65    | 187999   | 46.16    | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 61 - 141 | Recovery | =      | 92.32%   |
| 35) Dibromofluoromethane     | 7.550  | 113   | 160517   | 51.43    | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 69 - 133 | Recovery | =      | 102.86%  |
| 50) Toluene-d8               | 10.058 | 98    | 600965   | 51.37    | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 65 - 126 | Recovery | =      | 102.74%  |
| 62) 4-Bromofluorobenzene     | 12.373 | 95    | 224297   | 48.64    | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 58 - 135 | Recovery | =      | 97.28%   |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 1.846  | 85    | 141650   | 42.43    | ug/l   | 99       |
| 3) Chloromethane             | 2.052  | 50    | 160670   | 42.29    | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.181  | 62    | 174706   | 44.20    | ug/l   | 97       |
| 5) Bromomethane              | 2.525  | 94    | 132124   | 47.03    | ug/l   | 100      |
| 6) Chloroethane              | 2.676  | 64    | 116665   | 45.67    | ug/l   | 100      |
| 7) Trichlorofluoromethane    | 2.997  | 101   | 275851   | 46.65    | ug/l   | 97       |
| 8) Diethyl Ether             | 3.386  | 74    | 106008   | 45.53    | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 3.721  | 101   | 161375   | 48.66    | ug/l   | 97       |
| 10) Methyl Iodide            | 3.910  | 142   | 248744   | 49.64    | ug/l   | 95       |
| 11) Tert butyl alcohol       | 4.779  | 59    | 140631   | 211.03   | ug/l # | 84       |
| 12) 1,1-Dichloroethene       | 3.698  | 96    | 159119   | 44.91    | ug/l   | 99       |
| 13) Acrolein                 | 3.576  | 56    | 106136   | 235.63   | ug/l   | 100      |
| 14) Allyl chloride           | 4.277  | 41    | 250471   | 42.88    | ug/l   | 94       |
| 15) Acrylonitrile            | 4.946  | 53    | 374568   | 232.59   | ug/l   | 99       |
| 16) Acetone                  | 3.792  | 43    | 430881   | 252.21   | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.007  | 76    | 352015   | 38.82    | ug/l   | 100      |
| 18) Methyl Acetate           | 4.293  | 43    | 181299   | 49.58    | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.007  | 73    | 522275   | 46.41    | ug/l   | 99       |
| 20) Methylene Chloride       | 4.505  | 84    | 175310   | 44.12    | ug/l   | 99       |
| 21) trans-1,2-Dichloroethene | 4.991  | 96    | 162704   | 46.77    | ug/l   | 98       |
| 22) Diisopropyl ether        | 5.917  | 45    | 537295   | 46.21    | ug/l   | 99       |
| 23) Vinyl Acetate            | 5.853  | 43    | 2214492  | 225.98   | ug/l   | 100      |
| 24) 1,1-Dichloroethane       | 5.801  | 63    | 301379   | 47.25    | ug/l   | 99       |
| 25) 2-Butanone               | 6.801  | 43    | 537195   | 234.95   | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 6.779  | 77    | 274234   | 45.01    | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 6.785  | 96    | 198332   | 48.99    | ug/l   | 98       |
| 28) Bromochloromethane       | 7.152  | 49    | 127120   | 43.90    | ug/l   | 93       |
| 29) Tetrahydrofuran          | 7.177  | 42    | 324072   | 219.18   | ug/l   | 99       |
| 30) Chloroform               | 7.332  | 83    | 320661   | 48.84    | ug/l   | 99       |
| 31) Cyclohexane              | 7.611  | 56    | 247802   | 41.21    | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 7.531  | 97    | 282106   | 47.42    | ug/l   | 100      |
| 36) 1,1-Dichloropropene      | 7.753  | 75    | 232552   | 49.44    | ug/l   | 98       |
| 37) Ethyl Acetate            | 6.891  | 43    | 218685   | 46.90    | ug/l   | 97       |
| 38) Carbon Tetrachloride     | 7.733  | 117   | 244989   | 49.59    | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.045  | 83    | 269367   | 47.66    | ug/l   | 99       |
| 40) Benzene                  | 8.004  | 78    | 703422   | 50.27    | ug/l   | 97       |

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 Quant Title : SW846 8260  
 QLast Update : Tue Dec 22 15:42:18 2020  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.132  | 41   | 111829   | 46.09   | ug/l # | 83       |
| 42) 1,2-Dichloroethane        | 8.087  | 62   | 254378   | 49.19   | ug/l   | 97       |
| 43) Isopropyl Acetate         | 8.132  | 43   | 370644   | 46.12   | ug/l   | 99       |
| 44) Trichloroethene           | 8.801  | 130  | 213232   | 52.79   | ug/l   | 96       |
| 45) 1,2-Dichloropropane       | 9.084  | 63   | 183726   | 50.50   | ug/l   | 98       |
| 46) Dibromomethane            | 9.174  | 93   | 127184   | 51.47   | ug/l   | 91       |
| 47) Bromodichloromethane      | 9.370  | 83   | 259307   | 49.78   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.167  | 41   | 183587   | 47.06   | ug/l   | 98       |
| 49) 1,4-Dioxane               | 9.171  | 88   | 64648    | 1022.52 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 9.955  | 43   | 1082999  | 239.69  | ug/l   | 98       |
| 52) Toluene                   | 10.122 | 92   | 451819   | 51.23   | ug/l   | 98       |
| 53) t-1,3-Dichloropropene     | 10.351 | 75   | 289489   | 49.31   | ug/l   | 100      |
| 54) cis-1,3-Dichloropropene   | 9.807  | 75   | 307070   | 49.22   | ug/l   | 97       |
| 55) 1,1,2-Trichloroethane     | 10.531 | 97   | 182710   | 52.35   | ug/l   | 97       |
| 56) Ethyl methacrylate        | 10.399 | 69   | 270494   | 50.04   | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 10.679 | 76   | 301985   | 52.44   | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 9.663  | 63   | 555648   | 236.33  | ug/l   | 98       |
| 59) 2-Hexanone                | 10.724 | 43   | 811254   | 244.24  | ug/l   | 98       |
| 60) Dibromochloromethane      | 10.872 | 129  | 213104   | 51.23   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 10.978 | 107  | 195274   | 52.12   | ug/l   | 100      |
| 64) Tetrachloroethene         | 10.602 | 164  | 235410   | 51.24   | ug/l   | 95       |
| 65) Chlorobenzene             | 11.405 | 112  | 513286   | 53.30   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.479 | 131  | 200085   | 53.40   | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.483 | 91   | 885452   | 51.03   | ug/l   | 99       |
| 68) m/p-Xylenes               | 11.592 | 106  | 678386   | 103.79  | ug/l   | 99       |
| 69) o-Xylene                  | 11.920 | 106  | 328308   | 51.74   | ug/l   | 98       |
| 70) Styrene                   | 11.936 | 104  | 562096   | 53.09   | ug/l   | 100      |
| 71) Bromoform                 | 12.100 | 173  | 164494   | 51.00   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.222 | 105  | 885791   | 48.39   | ug/l   | 99       |
| 74) N-amyl acetate            | 12.042 | 43   | 327173   | 44.89   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.476 | 83   | 243037   | 49.24   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.527 | 75   | 234576m  | 47.84   | ug/l   |          |
| 77) Bromobenzene              | 12.499 | 156  | 245487   | 51.32   | ug/l   | 88       |
| 78) n-propylbenzene           | 12.563 | 91   | 991855   | 48.00   | ug/l   | 97       |
| 79) 2-Chlorotoluene           | 12.646 | 91   | 594385   | 48.85   | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 12.704 | 105  | 751773   | 48.16   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.273 | 75   | 86968    | 44.73   | ug/l   | 92       |
| 82) 4-Chlorotoluene           | 12.746 | 91   | 611037   | 48.76   | ug/l   | 96       |
| 83) tert-Butylbenzene         | 12.968 | 119  | 651439   | 48.99   | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene    | 13.013 | 105  | 760183   | 50.02   | ug/l   | 100      |
| 85) sec-Butylbenzene          | 13.145 | 105  | 846159   | 47.96   | ug/l   | 99       |
| 86) p-Isopropyltoluene        | 13.261 | 119  | 788181   | 48.73   | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.257 | 146  | 422262   | 52.78   | ug/l   | 97       |
| 88) 1,4-Dichlorobenzene       | 13.338 | 146  | 418508   | 52.11   | ug/l   | 98       |
| 89) n-Butylbenzene            | 13.589 | 91   | 645333   | 46.68   | ug/l   | 98       |
| 90) Hexachloroethane          | 13.846 | 117  | 135650   | 48.78   | ug/l   | 82       |
| 91) 1,2-Dichlorobenzene       | 13.627 | 146  | 411302   | 53.53   | ug/l   | 97       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.244 | 75   | 47064    | 46.29   | ug/l   | 89       |
| 93) 1,2,4-Trichlorobenzene    | 14.881 | 180  | 238027   | 50.02   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 14.981 | 225  | 142195   | 46.89   | ug/l   | 99       |
| 95) Naphthalene               | 15.103 | 128  | 571796   | 46.19   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.283 | 180  | 219729   | 49.81   | ug/l   | 98       |

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| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

