

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN090721\  
 Data File : VN068421.D  
 Acq On : 7 Sep 2021 14:33  
 Operator : JC/MD  
 Sample : VSTDIC010  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDIC010

Manual Integrations  
 APPROVED

MMDadoda  
 9/8/2021 8:15:56 PM

Quant Time: Sep 08 10:39:43 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N090721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 08 10:37:09 2021  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|------------------------------|--------|-------|----------|----------|--------|----------|
| -----                        |        |       |          |          |        |          |
| Internal Standards           |        |       |          |          |        |          |
| 1) Pentafluorobenzene        | 8.091  | 168   | 547290   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 8.971  | 114   | 828334   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.746 | 117   | 745047   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.678 | 152   | 336930   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds  |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.440  | 65    | 48303    | 8.809    | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 61 - 141 | Recovery | =      | 17.620%# |
| 35) Dibromofluoromethane     | 8.027  | 113   | 44270    | 8.500    | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 69 - 133 | Recovery | =      | 17.000%# |
| 50) Toluene-d8               | 10.446 | 98    | 155400   | 8.036    | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 65 - 126 | Recovery | =      | 16.080%# |
| 62) 4-Bromofluorobenzene     | 12.733 | 95    | 48698    | 7.742    | ug/l   | 0.00     |
| Spiked Amount                | 50.000 | Range | 58 - 135 | Recovery | =      | 15.480%# |
| Target Compounds             |        |       |          |          |        |          |
|                              |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.078  | 85    | 47583    | 10.470   | ug/l   | 95       |
| 3) Chloromethane             | 2.309  | 50    | 45246    | 9.599    | ug/l   | 96       |
| 4) Vinyl Chloride            | 2.448  | 62    | 73609    | 10.266   | ug/l   | 98       |
| 5) Bromomethane              | 2.861  | 94    | 74840    | 10.833   | ug/l   | 95       |
| 6) Chloroethane              | 3.025  | 64    | 50843    | 9.842    | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.381  | 101   | 88422    | 6.542    | ug/l   | 98       |
| 8) Diethyl Ether             | 3.832  | 74    | 25903    | 6.726    | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 4.218  | 101   | 49078    | 10.672   | ug/l   | 99       |
| 10) Methyl Iodide            | 4.433  | 142   | 65201    | 10.948   | ug/l   | 100      |
| 11) Tert butyl alcohol       | 5.369  | 59    | 38796    | 53.311   | ug/l   | 99       |
| 12) 1,1-Dichloroethene       | 4.189  | 96    | 45542    | 10.589   | ug/l   | 95       |
| 13) Acrolein                 | 4.055  | 56    | 19419    | 42.243   | ug/l # | 62       |
| 14) Allyl chloride           | 4.848  | 41    | 54781    | 10.158   | ug/l   | 97       |
| 15) Acrylonitrile            | 5.562  | 53    | 97672    | 49.166   | ug/l   | 99       |
| 16) Acetone                  | 4.299  | 43    | 82410    | 45.333   | ug/l   | 98       |
| 17) Carbon Disulfide         | 4.545  | 76    | 114280   | 9.910    | ug/l   | 100      |
| 18) Methyl Acetate           | 4.865  | 43    | 51502    | 10.242   | ug/l   | 97       |
| 19) Methyl tert-butyl Ether  | 5.626  | 73    | 144900   | 10.432   | ug/l   | 100      |
| 20) Methylene Chloride       | 5.109  | 84    | 52452    | 9.130    | ug/l   | 98       |
| 21) trans-1,2-Dichloroethene | 5.602  | 96    | 48468    | 10.085   | ug/l   | 99       |
| 22) Diisopropyl ether        | 6.501  | 45    | 123438   | 10.516   | ug/l   | 96       |
| 23) Vinyl Acetate            | 6.442  | 43    | 452141   | 50.206   | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.399  | 63    | 82542    | 10.519   | ug/l   | 99       |
| 25) 2-Butanone               | 7.340  | 43    | 124631   | 49.092   | ug/l   | 96       |
| 26) 2,2-Dichloropropane      | 7.329  | 77    | 73797    | 10.164   | ug/l   | 98       |
| 27) cis-1,2-Dichloroethene   | 7.329  | 96    | 57660    | 10.286   | ug/l   | 97       |
| 28) Bromochloromethane       | 7.662  | 49    | 32106    | 9.711    | ug/l   | 95       |
| 29) Tetrahydrofuran          | 7.689  | 42    | 80349    | 49.190   | ug/l   | 99       |
| 30) Chloroform               | 7.823  | 83    | 97567    | 10.377   | ug/l   | 99       |
| 31) Cyclohexane              | 8.096  | 56    | 80318    | 10.825   | ug/l # | 95       |
| 32) 1,1,1-Trichloroethane    | 8.021  | 97    | 89681    | 10.325   | ug/l   | 98       |
| 36) 1,1-Dichloropropene      | 8.225  | 75    | 66250    | 9.981    | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.418  | 43    | 51716    | 9.453    | ug/l   | 96       |
| 38) Carbon Tetrachloride     | 8.212  | 117   | 79570    | 10.002   | ug/l   | 99       |
| 39) Methylcyclohexane        | 9.461  | 83    | 84320    | 10.184   | ug/l   | 98       |
| 40) Benzene                  | 8.464  | 78    | 204997   | 10.040   | ug/l   | 97       |

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 ALS Vial : 7 Sample Multiplier: 1

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 ClientSampleId :  
 VSTDIC010

Manual Integrations  
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 9/8/2021 8:15:56 PM

Quant Time: Sep 08 10:39:43 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N090721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 08 10:37:09 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.643  | 41   | 26193    | 10.154  | ug/l   | 97       |
| 42) 1,2-Dichloroethane        | 8.534  | 62   | 70150    | 10.244  | ug/l   | 98       |
| 43) Isopropyl Acetate         | 8.560  | 43   | 90749    | 10.200  | ug/l   | 98       |
| 44) Trichloroethene           | 9.220  | 130  | 62531    | 9.855   | ug/l   | 91       |
| 45) 1,2-Dichloropropane       | 9.494  | 63   | 47763    | 10.074  | ug/l   | 97       |
| 46) Dibromomethane            | 9.579  | 93   | 38949    | 10.098  | ug/l   | 95       |
| 47) Bromodichloromethane      | 9.765  | 83   | 72198    | 9.777   | ug/l   | 98       |
| 48) Methyl methacrylate       | 9.561  | 41   | 34883    | 8.983   | ug/l # | 86       |
| 49) 1,4-Dioxane               | 9.574  | 88   | 17496    | 193.739 | ug/l   | 98       |
| 51) 4-Methyl-2-Pentanone      | 10.333 | 43   | 265343   | 48.272  | ug/l   | 97       |
| 52) Toluene                   | 10.507 | 92   | 131675   | 9.649   | ug/l   | 97       |
| 53) t-1,3-Dichloropropene     | 10.722 | 75   | 67798    | 9.316   | ug/l   | 99       |
| 54) cis-1,3-Dichloropropene   | 10.191 | 75   | 77047    | 9.907   | ug/l   | 96       |
| 55) 1,1,2-Trichloroethane     | 10.899 | 97   | 52820    | 9.534   | ug/l   | 93       |
| 56) Ethyl methacrylate        | 10.762 | 69   | 64403    | 9.498   | ug/l   | 96       |
| 57) 1,3-Dichloropropane       | 11.047 | 76   | 81986    | 9.852   | ug/l   | 98       |
| 58) 2-Chloroethyl Vinyl ether | 10.043 | 63   | 18888    | 20.067  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.087 | 43   | 173489   | 45.597  | ug/l   | 96       |
| 60) Dibromochloromethane      | 11.240 | 129  | 60529    | 9.499   | ug/l   | 100      |
| 61) 1,2-Dibromoethane         | 11.347 | 107  | 55306    | 9.493   | ug/l   | 99       |
| 64) Tetrachloroethene         | 10.979 | 164  | 65325    | 10.963  | ug/l   | 98       |
| 65) Chlorobenzene             | 11.771 | 112  | 148887   | 9.904   | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.843 | 131  | 58973    | 10.047  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.848 | 91   | 246396   | 10.041  | ug/l   | 98       |
| 68) m/p-Xylenes               | 11.956 | 106  | 196519   | 19.854  | ug/l   | 97       |
| 69) o-Xylene                  | 12.283 | 106  | 95628    | 10.071  | ug/l   | 98       |
| 70) Styrene                   | 12.296 | 104  | 144891   | 9.719   | ug/l   | 98       |
| 71) Bromoform                 | 12.460 | 173  | 41781    | 8.882   | ug/l # | 98       |
| 73) Isopropylbenzene          | 12.581 | 105  | 241742   | 10.009  | ug/l   | 99       |
| 74) N-amyl acetate            | 12.390 | 43   | 51861    | 8.727   | ug/l   | 98       |
| 75) 1,1,2,2-Tetrachloroethane | 12.827 | 83   | 67800    | 9.460   | ug/l   | 99       |
| 76) 1,2,3-Trichloropropane    | 12.881 | 75   | 56884m   | 9.904   | ug/l   |          |
| 77) Bromobenzene              | 12.862 | 156  | 62106    | 9.108   | ug/l   | 89       |
| 78) n-propylbenzene           | 12.924 | 91   | 252315   | 9.866   | ug/l   | 98       |
| 79) 2-Chlorotoluene           | 13.010 | 91   | 159069   | 10.079  | ug/l   | 97       |
| 80) 1,3,5-Trimethylbenzene    | 13.061 | 105  | 197098   | 10.051  | ug/l   | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.626 | 75   | 14439    | 8.586   | ug/l   | 98       |
| 82) 4-Chlorotoluene           | 13.109 | 91   | 152344   | 9.976   | ug/l   | 97       |
| 83) tert-Butylbenzene         | 13.326 | 119  | 178910   | 9.935   | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene    | 13.369 | 105  | 193852   | 10.121  | ug/l   | 96       |
| 85) sec-Butylbenzene          | 13.503 | 105  | 239745   | 10.151  | ug/l   | 97       |
| 86) p-Isopropyltoluene        | 13.619 | 119  | 195163   | 9.961   | ug/l   | 98       |
| 87) 1,3-Dichlorobenzene       | 13.619 | 146  | 111219   | 9.521   | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.696 | 146  | 110024   | 9.470   | ug/l   | 97       |
| 89) n-Butylbenzene            | 13.946 | 91   | 137836   | 9.364   | ug/l   | 97       |
| 90) Hexachloroethane          | 14.211 | 117  | 35310    | 9.448   | ug/l   | 82       |
| 91) 1,2-Dichlorobenzene       | 13.991 | 146  | 107968   | 9.728   | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.605 | 75   | 10900    | 9.656   | ug/l   | 89       |
| 93) 1,2,4-Trichlorobenzene    | 15.265 | 180  | 44988    | 8.264   | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.373 | 225  | 30471    | 9.446   | ug/l   | 97       |
| 95) Naphthalene               | 15.507 | 128  | 84176    | 6.480   | ug/l   | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.702 | 180  | 41271    | 7.767   | ug/l   | 99       |

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QLast Update : Wed Sep 08 10:37:09 2021  
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------|------|------|----------|------|-------|----------|
|----------|------|------|----------|------|-------|----------|

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

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