

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN032023\  
 Data File : VN077059.D  
 Acq On : 20 Mar 2023 10:28  
 Operator : JC\MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 03/21/2023  
 Supervised By : Mahesh Dadoda 03/21/2023

Quant Time: Mar 21 05:32:33 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031723W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 20 08:50:30 2023  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Pentafluorobenzene        | 8.231          | 168  | 368850              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene      | 9.101          | 114  | 667318              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5         | 11.866         | 117  | 604025              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4   | 13.795         | 152  | 276308              | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4    | 8.583          | 65   | 314927              | 53.452  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 74 - 125 |      | Recovery = 106.900% |         |        |          |
| 35) Dibromofluoromethane     | 8.172          | 113  | 242834              | 51.962  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 75 - 124 |      | Recovery = 103.920% |         |        |          |
| 50) Toluene-d8               | 10.566         | 98   | 887375              | 53.156  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 86 - 113 |      | Recovery = 106.320% |         |        |          |
| 62) 4-Bromofluorobenzene     | 12.848         | 95   | 330163              | 55.970  | ug/l   | 0.00     |
| Spiked Amount 50.000         | Range 83 - 123 |      | Recovery = 111.940% |         |        |          |
| Target Compounds             |                |      |                     |         |        |          |
|                              |                |      |                     |         | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.137          | 85   | 154939              | 44.330  | ug/l   | 100      |
| 3) Chloromethane             | 2.372          | 50   | 154728              | 41.634  | ug/l   | 98       |
| 4) Vinyl Chloride            | 2.531          | 62   | 178356              | 44.462  | ug/l   | 95       |
| 5) Bromomethane              | 2.960          | 94   | 123182              | 45.462  | ug/l   | 99       |
| 6) Chloroethane              | 3.131          | 64   | 146490              | 57.712  | ug/l   | 96       |
| 7) Trichlorofluoromethane    | 3.513          | 101  | 386551              | 44.793  | ug/l   | 99       |
| 8) Diethyl Ether             | 3.972          | 74   | 172956              | 53.254  | ug/l   | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.384          | 101  | 221835              | 45.317  | ug/l   | 99       |
| 10) Methyl Iodide            | 4.601          | 142  | 287162              | 52.083  | ug/l   | 98       |
| 11) Tert butyl alcohol       | 5.531          | 59   | 205294              | 239.123 | ug/l   | 100      |
| 12) 1,1-Dichloroethene       | 4.354          | 96   | 214772              | 47.960  | ug/l   | 98       |
| 13) Acrolein                 | 4.190          | 56   | 263058              | 247.729 | ug/l   | 99       |
| 14) Allyl chloride           | 5.031          | 41   | 447029              | 54.528  | ug/l   | 95       |
| 15) Acrylonitrile            | 5.725          | 53   | 716193              | 248.144 | ug/l   | 99       |
| 16) Acetone                  | 4.437          | 43   | 722364              | 275.163 | ug/l   | 99       |
| 17) Carbon Disulfide         | 4.725          | 76   | 590726              | 45.240  | ug/l   | 96       |
| 18) Methyl Acetate           | 5.031          | 43   | 484233              | 48.915  | ug/l   | 99       |
| 19) Methyl tert-butyl Ether  | 5.801          | 73   | 861603              | 53.609  | ug/l   | 98       |
| 20) Methylene Chloride       | 5.290          | 84   | 281367              | 49.384  | ug/l   | 97       |
| 21) trans-1,2-Dichloroethene | 5.795          | 96   | 239623              | 49.369  | ug/l   | 97       |
| 22) Diisopropyl ether        | 6.678          | 45   | 950046              | 52.892  | ug/l   | 98       |
| 23) Vinyl Acetate            | 6.613          | 43   | 3046061             | 268.738 | ug/l   | 99       |
| 24) 1,1-Dichloroethane       | 6.578          | 63   | 500622              | 48.706  | ug/l   | 98       |
| 25) 2-Butanone               | 7.484          | 43   | 957975              | 249.452 | ug/l   | 99       |
| 26) 2,2-Dichloropropane      | 7.495          | 77   | 391210              | 50.585  | ug/l   | 100      |
| 27) cis-1,2-Dichloroethene   | 7.495          | 96   | 292848              | 52.680  | ug/l   | 98       |
| 28) Bromochloromethane       | 7.813          | 49   | 199892              | 44.782  | ug/l   | 98       |
| 29) Tetrahydrofuran          | 7.842          | 42   | 618023              | 248.346 | ug/l   | 99       |
| 30) Chloroform               | 7.972          | 83   | 497918              | 49.911  | ug/l   | 98       |
| 31) Cyclohexane              | 8.260          | 56   | 425741              | 44.165  | ug/l   | 98       |
| 32) 1,1,1-Trichloroethane    | 8.172          | 97   | 412040              | 48.325  | ug/l   | 99       |
| 36) 1,1-Dichloropropene      | 8.378          | 75   | 355190              | 48.661  | ug/l   | 99       |
| 37) Ethyl Acetate            | 7.566          | 43   | 382137              | 48.931  | ug/l   | 100      |
| 38) Carbon Tetrachloride     | 8.366          | 117  | 341328              | 48.008  | ug/l   | 98       |
| 39) Methylcyclohexane        | 9.601          | 83   | 427595              | 50.047  | ug/l   | 100      |
| 40) Benzene                  | 8.607          | 78   | 1103448             | 49.846  | ug/l   | 100      |

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 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
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 ClientSampleId :  
 VSTDCCC050

Manual Integrations  
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Quant Time: Mar 21 05:32:33 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N031723W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 20 08:50:30 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| 41) Methacrylonitrile         | 7.784  | 41   | 212397m  | 50.484  | ug/l  |          |
| 42) 1,2-Dichloroethane        | 8.672  | 62   | 403077   | 50.389  | ug/l  | 99       |
| 43) Isopropyl Acetate         | 8.689  | 43   | 622899   | 51.057  | ug/l  | 98       |
| 44) Trichloroethene           | 9.354  | 130  | 242795   | 47.749  | ug/l  | 91       |
| 45) 1,2-Dichloropropane       | 9.625  | 63   | 306172   | 52.075  | ug/l  | 97       |
| 46) Dibromomethane            | 9.713  | 93   | 189156   | 51.012  | ug/l  | 98       |
| 47) Bromodichloromethane      | 9.889  | 83   | 398900   | 51.292  | ug/l  | 100      |
| 48) Methyl methacrylate       | 9.683  | 41   | 312247   | 53.536  | ug/l  | 99       |
| 49) 1,4-Dioxane               | 9.695  | 88   | 98942    | 993.219 | ug/l  | 99       |
| 51) 4-Methyl-2-Pentanone      | 10.448 | 43   | 1912529  | 251.738 | ug/l  | 99       |
| 52) Toluene                   | 10.630 | 92   | 679134   | 51.382  | ug/l  | 99       |
| 53) t-1,3-Dichloropropene     | 10.836 | 75   | 434705   | 57.031  | ug/l  | 99       |
| 54) cis-1,3-Dichloropropene   | 10.313 | 75   | 477129   | 55.480  | ug/l  | 99       |
| 55) 1,1,2-Trichloroethane     | 11.019 | 97   | 272107   | 52.207  | ug/l  | 99       |
| 56) Ethyl methacrylate        | 10.877 | 69   | 443551   | 56.593  | ug/l  | 97       |
| 57) 1,3-Dichloropropane       | 11.166 | 76   | 487245   | 51.061  | ug/l  | 98       |
| 58) 2-Chloroethyl Vinyl ether | 10.160 | 63   | 838005   | 250.799 | ug/l  | 100      |
| 59) 2-Hexanone                | 11.195 | 43   | 1394193  | 253.011 | ug/l  | 100      |
| 60) Dibromochloromethane      | 11.360 | 129  | 286062   | 54.638  | ug/l  | 100      |
| 61) 1,2-Dibromoethane         | 11.472 | 107  | 268436   | 51.936  | ug/l  | 99       |
| 64) Tetrachloroethene         | 11.107 | 164  | 191061   | 47.131  | ug/l  | 98       |
| 65) Chlorobenzene             | 11.895 | 112  | 691226   | 49.736  | ug/l  | 98       |
| 66) 1,1,1,2-Tetrachloroethane | 11.960 | 131  | 258963   | 50.357  | ug/l  | 99       |
| 67) Ethyl Benzene             | 11.966 | 91   | 1303785  | 51.647  | ug/l  | 99       |
| 68) m/p-Xylenes               | 12.071 | 106  | 980971   | 104.781 | ug/l  | 100      |
| 69) o-Xylene                  | 12.401 | 106  | 483227   | 51.946  | ug/l  | 100      |
| 70) Styrene                   | 12.413 | 104  | 806019   | 55.654  | ug/l  | 100      |
| 71) Bromoform                 | 12.577 | 173  | 190274   | 54.603  | ug/l  | 99       |
| 73) Isopropylbenzene          | 12.695 | 105  | 1244668  | 50.266  | ug/l  | 100      |
| 74) N-amyl acetate            | 12.495 | 43   | 545826   | 50.927  | ug/l  | 99       |
| 75) 1,1,2,2-Tetrachloroethane | 12.942 | 83   | 401470   | 44.752  | ug/l  | 99       |
| 76) 1,2,3-Trichloropropane    | 12.995 | 75   | 352372m  | 49.303  | ug/l  |          |
| 77) Bromobenzene              | 12.983 | 156  | 274568   | 49.499  | ug/l  | 96       |
| 78) n-propylbenzene           | 13.036 | 91   | 1488574  | 52.076  | ug/l  | 100      |
| 79) 2-Chlorotoluene           | 13.124 | 91   | 914959   | 50.233  | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.177 | 105  | 1079753  | 52.228  | ug/l  | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.736 | 75   | 130446   | 50.239  | ug/l  | 99       |
| 82) 4-Chlorotoluene           | 13.224 | 91   | 897018   | 51.790  | ug/l  | 100      |
| 83) tert-Butylbenzene         | 13.442 | 119  | 887913   | 51.153  | ug/l  | 100      |
| 84) 1,2,4-Trimethylbenzene    | 13.483 | 105  | 1079170  | 52.308  | ug/l  | 99       |
| 85) sec-Butylbenzene          | 13.618 | 105  | 1283849  | 51.995  | ug/l  | 99       |
| 86) p-Isopropyltoluene        | 13.730 | 119  | 1061776  | 53.547  | ug/l  | 99       |
| 87) 1,3-Dichlorobenzene       | 13.736 | 146  | 516923   | 49.307  | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene       | 13.813 | 146  | 520644   | 49.915  | ug/l  | 99       |
| 89) n-Butylbenzene            | 14.060 | 91   | 944352   | 54.288  | ug/l  | 99       |
| 90) Hexachloroethane          | 14.336 | 117  | 194739   | 48.305  | ug/l  | 100      |
| 91) 1,2-Dichlorobenzene       | 14.107 | 146  | 520533   | 49.812  | ug/l  | 99       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.724 | 75   | 79126    | 47.600  | ug/l  | 99       |
| 93) 1,2,4-Trichlorobenzene    | 15.395 | 180  | 270164   | 57.190  | ug/l  | 100      |
| 94) Hexachlorobutadiene       | 15.501 | 225  | 128784   | 49.502  | ug/l  | 99       |
| 95) Naphthalene               | 15.642 | 128  | 895798   | 48.842  | ug/l  | 100      |
| 96) 1,2,3-Trichlorobenzene    | 15.842 | 180  | 266170   | 56.153  | ug/l  | 99       |

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Quant Title : SW846 8260  
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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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