

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN051325\  
 Data File : VN086594.D  
 Acq On : 13 May 2025 12:09  
 Operator : JC\MD  
 Sample : VN0513WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0513WBSD01

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/14/2025  
 Supervised By : Mahesh Dadoda 05/14/2025

Quant Time: May 14 01:40:50 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N041525W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 16 04:19:23 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 8.224  | 168  | 165653   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 9.100  | 114  | 305133   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.865 | 117  | 274614   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.788 | 152  | 121911   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |           |
|-----------------------------|--------|-------|----------|----------|------|-----------|
| System Monitoring Compounds |        |       |          |          |      |           |
| 33) 1,2-Dichloroethane-d4   | 8.577  | 65    | 118679   | 49.406   | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | =    | 98.820%   |
| 35) Dibromofluoromethane    | 8.165  | 113   | 90882    | 64.175   | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 128.340%# |
| 50) Toluene-d8              | 10.565 | 98    | 362358   | 47.876   | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | =    | 95.760%   |
| 62) 4-Bromofluorobenzene    | 12.847 | 95    | 130854   | 47.400   | ug/l | 0.00      |
| Spiked Amount               | 50.000 | Range | 77 - 121 | Recovery | =    | 94.800%   |

|                              |       |     |        |         |        |     |
|------------------------------|-------|-----|--------|---------|--------|-----|
| Target Compounds             |       |     |        |         | Qvalue |     |
| 2) Dichlorodifluoromethane   | 2.124 | 85  | 43462  | 22.133  | ug/l   | 97  |
| 3) Chloromethane             | 2.359 | 50  | 55767  | 19.540  | ug/l   | 97  |
| 4) Vinyl Chloride            | 2.512 | 62  | 52972  | 19.450  | ug/l   | 99  |
| 5) Bromomethane              | 2.953 | 94  | 31625  | 25.816  | ug/l   | 96  |
| 6) Chloroethane              | 3.118 | 64  | 35096  | 19.255  | ug/l   | 91  |
| 7) Trichlorofluoromethane    | 3.494 | 101 | 62015  | 20.557  | ug/l   | 98  |
| 8) Diethyl Ether             | 3.965 | 74  | 26368  | 20.022  | ug/l   | 94  |
| 9) 1,1,2-Trichlorotrifluo... | 4.371 | 101 | 37022  | 20.287  | ug/l   | 97  |
| 10) Methyl Iodide            | 4.583 | 142 | 45113  | 22.485  | ug/l   | 97  |
| 11) Tert butyl alcohol       | 5.518 | 59  | 44160  | 100.756 | ug/l   | 99  |
| 12) 1,1-Dichloroethene       | 4.336 | 96  | 37700  | 19.336  | ug/l   | 98  |
| 13) Acrolein                 | 4.177 | 56  | 28081  | 130.169 | ug/l   | 98  |
| 14) Allyl chloride           | 5.024 | 41  | 57151  | 16.489  | ug/l   | 98  |
| 15) Acrylonitrile            | 5.718 | 53  | 109975 | 101.503 | ug/l   | 99  |
| 16) Acetone                  | 4.430 | 43  | 89755  | 104.756 | ug/l   | 97  |
| 17) Carbon Disulfide         | 4.712 | 76  | 105349 | 18.046  | ug/l   | 97  |
| 18) Methyl Acetate           | 5.024 | 43  | 50377  | 17.471  | ug/l   | 96  |
| 19) Methyl tert-butyl Ether  | 5.794 | 73  | 143690 | 20.049  | ug/l   | 98  |
| 20) Methylene Chloride       | 5.271 | 84  | 45693  | 20.576  | ug/l   | 96  |
| 21) trans-1,2-Dichloroethene | 5.783 | 96  | 40167  | 19.705  | ug/l   | 90  |
| 22) Diisopropyl ether        | 6.671 | 45  | 138934 | 18.427  | ug/l   | 97  |
| 23) Vinyl Acetate            | 6.600 | 43  | 522368 | 99.108  | ug/l   | 97  |
| 24) 1,1-Dichloroethane       | 6.565 | 63  | 77413  | 19.459  | ug/l   | 99  |
| 25) 2-Butanone               | 7.482 | 43  | 145161 | 97.085  | ug/l   | 98  |
| 26) 2,2-Dichloropropane      | 7.482 | 77  | 67837  | 19.045  | ug/l   | 99  |
| 27) cis-1,2-Dichloroethene   | 7.482 | 96  | 50660  | 20.024  | ug/l   | 96  |
| 28) Bromochloromethane       | 7.812 | 49  | 33392  | 19.796  | ug/l   | 89  |
| 29) Tetrahydrofuran          | 7.835 | 42  | 98523  | 98.538  | ug/l   | 98  |
| 30) Chloroform               | 7.965 | 83  | 80547  | 20.611  | ug/l   | 99  |
| 31) Cyclohexane              | 8.253 | 56  | 68168  | 17.511  | ug/l   | 95  |
| 32) 1,1,1-Trichloroethane    | 8.165 | 97  | 67616  | 20.226  | ug/l   | 97  |
| 36) 1,1-Dichloropropene      | 8.371 | 75  | 54989  | 19.441  | ug/l   | 100 |
| 37) Ethyl Acetate            | 7.559 | 43  | 60160  | 20.202  | ug/l   | 100 |
| 38) Carbon Tetrachloride     | 8.365 | 117 | 57528  | 21.357  | ug/l   | 96  |
| 39) Methylcyclohexane        | 9.600 | 83  | 60635  | 18.035  | ug/l   | 97  |
| 40) Benzene                  | 8.606 | 78  | 183073 | 20.201  | ug/l   | 97  |

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 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0513WBSD01

Manual Integrations  
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Quant Time: May 14 01:40:50 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N041525W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 16 04:19:23 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 41) Methacrylonitrile         | 7.771  | 41   | 33361    | 19.330  | ug/l   | 99       |
| 42) 1,2-Dichloroethane        | 8.665  | 62   | 61834    | 21.396  | ug/l   | 100      |
| 43) Isopropyl Acetate         | 8.688  | 43   | 113791   | 19.903  | ug/l   | 98       |
| 44) Trichloroethene           | 9.353  | 130  | 44110    | 20.535  | ug/l   | 94       |
| 45) 1,2-Dichloropropane       | 9.618  | 63   | 44181    | 19.916  | ug/l   | 99       |
| 46) Dibromomethane            | 9.706  | 93   | 31602    | 22.358  | ug/l   | 96       |
| 47) Bromodichloromethane      | 9.888  | 83   | 62584    | 20.501  | ug/l   | 99       |
| 48) Methyl methacrylate       | 9.676  | 41   | 48190    | 18.428  | ug/l   | 97       |
| 49) 1,4-Dioxane               | 9.694  | 88   | 20416    | 458.970 | ug/l   | 92       |
| 51) 4-Methyl-2-Pentanone      | 10.441 | 43   | 303884   | 99.654  | ug/l   | 97       |
| 52) Toluene                   | 10.629 | 92   | 116420   | 20.588  | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 10.829 | 75   | 68297    | 20.042  | ug/l   | 97       |
| 54) cis-1,3-Dichloropropene   | 10.306 | 75   | 72759    | 19.439  | ug/l   | 98       |
| 55) 1,1,2-Trichloroethane     | 11.012 | 97   | 44205    | 21.727  | ug/l   | 98       |
| 56) Ethyl methacrylate        | 10.870 | 69   | 73390    | 19.624  | ug/l   | 97       |
| 57) 1,3-Dichloropropane       | 11.159 | 76   | 75932    | 21.035  | ug/l   | 99       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63   | 151700   | 85.463  | ug/l   | 97       |
| 59) 2-Hexanone                | 11.194 | 43   | 224910   | 99.438  | ug/l   | 99       |
| 60) Dibromochloromethane      | 11.353 | 129  | 48081    | 21.521  | ug/l   | 99       |
| 61) 1,2-Dibromoethane         | 11.465 | 107  | 45026    | 21.933  | ug/l   | 100      |
| 64) Tetrachloroethene         | 11.100 | 164  | 41770    | 19.774  | ug/l   | 94       |
| 65) Chlorobenzene             | 11.888 | 112  | 125243   | 20.436  | ug/l   | 99       |
| 66) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 42675    | 21.108  | ug/l   | 99       |
| 67) Ethyl Benzene             | 11.959 | 91   | 217501   | 19.667  | ug/l   | 99       |
| 68) m/p-Xylenes               | 12.070 | 106  | 164716   | 39.750  | ug/l   | 97       |
| 69) o-Xylene                  | 12.394 | 106  | 82598    | 20.156  | ug/l   | 98       |
| 70) Styrene                   | 12.406 | 104  | 135666   | 19.869  | ug/l   | 99       |
| 71) Bromoform                 | 12.576 | 173  | 31551    | 20.728  | ug/l # | 100      |
| 73) Isopropylbenzene          | 12.694 | 105  | 197849   | 19.839  | ug/l   | 100      |
| 74) N-amyl acetate            | 12.494 | 43   | 90642    | 18.258  | ug/l   | 97       |
| 75) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 63526    | 22.155  | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.988 | 75   | 58257m   | 20.250  | ug/l   |          |
| 77) Bromobenzene              | 12.976 | 156  | 49783    | 22.530  | ug/l   | 91       |
| 78) n-propylbenzene           | 13.029 | 91   | 228801   | 19.470  | ug/l   | 100      |
| 79) 2-Chlorotoluene           | 13.123 | 91   | 145395   | 19.773  | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene    | 13.170 | 105  | 159259   | 19.512  | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.735 | 75   | 23212m   | 19.377  | ug/l   |          |
| 82) 4-Chlorotoluene           | 13.217 | 91   | 143278   | 19.615  | ug/l   | 98       |
| 83) tert-Butylbenzene         | 13.435 | 119  | 138147   | 19.533  | ug/l   | 97       |
| 84) 1,2,4-Trimethylbenzene    | 13.476 | 105  | 160879   | 19.363  | ug/l   | 99       |
| 85) sec-Butylbenzene          | 13.611 | 105  | 187119   | 19.074  | ug/l   | 100      |
| 86) p-Isopropyltoluene        | 13.723 | 119  | 154353   | 19.089  | ug/l   | 99       |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146  | 85051    | 20.475  | ug/l   | 98       |
| 88) 1,4-Dichlorobenzene       | 13.806 | 146  | 85647    | 20.471  | ug/l   | 99       |
| 89) n-Butylbenzene            | 14.053 | 91   | 130434   | 18.199  | ug/l   | 99       |
| 90) Hexachloroethane          | 14.329 | 117  | 27213    | 20.008  | ug/l   | 98       |
| 91) 1,2-Dichlorobenzene       | 14.100 | 146  | 83833    | 20.816  | ug/l   | 98       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 11198    | 19.368  | ug/l   | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.388 | 180  | 37122    | 19.250  | ug/l   | 98       |
| 94) Hexachlorobutadiene       | 15.494 | 225  | 14542    | 19.977  | ug/l   | 98       |
| 95) Naphthalene               | 15.635 | 128  | 133610   | 19.545  | ug/l   | 99       |
| 96) 1,2,3-Trichlorobenzene    | 15.835 | 180  | 36205    | 19.831  | ug/l   | 98       |

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QLast Update : Wed Apr 16 04:19:23 2025  
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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