

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN101725\  
 Data File : VN088068.D  
 Acq On : 17 Oct 2025 15:39  
 Operator : JC\MD  
 Sample : Q3385-02MS 5X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 EFF-WWMS

Quant Time: Oct 18 01:30:27 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N100825W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Oct 09 02:36:32 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : John Carlone 10/20/2025  
 Supervised By : Mahesh Dadoda 10/20/2025

| Compound                     | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                        |                |      |                     |         |        |          |
| Internal Standards           |                |      |                     |         |        |          |
| 1) Bromochloromethane        | 7.800          | 128  | 53200               | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.082          | 114  | 297248              | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.841         | 117  | 260365              | 30.000  | ug/l   | 0.00     |
|                              |                |      |                     |         |        |          |
| System Monitoring Compounds  |                |      |                     |         |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.559          | 65   | 132784              | 32.053  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = 106.833% |         |        |          |
| 60) 4-Bromofluorobenzene     | 12.829         | 95   | 132200              | 30.800  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = 102.667% |         |        |          |
| 63) Toluene-d8               | 10.541         | 98   | 365815              | 31.535  | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = 105.100% |         |        |          |
|                              |                |      |                     |         |        |          |
| Target Compounds             |                |      |                     |         |        | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 59668               | 19.582  | ug/l   | 97       |
| 3) Chloromethane             | 2.383          | 50   | 61575               | 17.824  | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.542          | 62   | 67552               | 18.753  | ug/l   | 98       |
| 5) Bromomethane              | 2.983          | 94   | 34680               | 17.904  | ug/l   | 92       |
| 6) Chloroethane              | 3.148          | 64   | 41958               | 17.658  | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.518          | 101  | 98528               | 20.114  | ug/l   | 98       |
| 8) Diethyl Ether             | 3.965          | 74   | 38188               | 17.254  | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 53920               | 20.563  | ug/l   | 95       |
| 10) 1,1-Dichloroethene       | 4.336          | 96   | 53476               | 19.118  | ug/l   | 91       |
| 11) Methyl Iodide            | 4.583          | 142  | 35580               | 13.801  | ug/l   | 91       |
| 12) Methyl Acetate           | 5.024          | 43   | 104603m             | 23.003  | ug/l   |          |
| 13) Acrolein                 | 4.171          | 56   | 68540               | 97.399  | ug/l # | 7        |
| 14) Acrylonitrile            | 5.706          | 53   | 187537              | 85.458  | ug/l   | 96       |
| 15) Acetone                  | 4.418          | 58   | 608618              | 947.014 | ug/l   | 97       |
| 16) Carbon Disulfide         | 4.706          | 76   | 160932              | 18.353  | ug/l   | 95       |
| 17) Allyl chloride           | 5.018          | 41   | 90130               | 17.076  | ug/l   | 99       |
| 18) Methylene Chloride       | 5.259          | 84   | 63450               | 17.847  | ug/l   | 98       |
| 19) trans-1,2-Dichloroethene | 5.777          | 96   | 58203               | 17.997  | ug/l   | 84       |
| 20) Diisopropyl ether        | 6.665          | 45   | 213890              | 17.799  | ug/l   | 96       |
| 21) 1,1-Dichloroethane       | 6.553          | 63   | 115285              | 18.429  | ug/l   | 98       |
| 22) cis-1,2-Dichloroethene   | 7.471          | 96   | 70252               | 17.353  | ug/l # | 86       |
| 23) tert-Butyl Alcohol       | 5.518          | 59   | 83149               | 94.474  | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.789          | 73   | 209735              | 17.371  | ug/l   | 98       |
| 25) Chloroform               | 7.947          | 83   | 244499              | 37.875  | ug/l   | 100      |
| 26) Cyclohexane              | 8.241          | 56   | 99461               | 19.190  | ug/l # | 97       |
| 29) 1,1-Dichloropropene      | 8.353          | 75   | 79558               | 18.672  | ug/l   | 95       |
| 30) 2-Butanone               | 7.471          | 43   | 269939              | 85.901  | ug/l   | 98       |
| 31) 2,2-Dichloropropane      | 7.471          | 77   | 103872              | 18.920  | ug/l # | 83       |
| 32) 1,1,1-Trichloroethane    | 8.153          | 97   | 100849              | 18.942  | ug/l   | 97       |
| 33) Carbon Tetrachloride     | 8.341          | 117  | 85903               | 19.263  | ug/l   | 98       |
| 34) Benzene                  | 8.588          | 78   | 245158              | 17.347  | ug/l   | 97       |
| 35) Methacrylonitrile        | 7.759          | 41   | 56572               | 17.119  | ug/l   | 94       |
| 36) 1,2-Dichloroethane       | 8.653          | 62   | 91057               | 18.559  | ug/l   | 97       |
| 37) Trichloroethene          | 9.335          | 130  | 57919               | 17.298  | ug/l   | 99       |
| 38) Methylcyclohexane        | 9.577          | 83   | 100687              | 19.136  | ug/l   | 95       |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 63178               | 17.828  | ug/l   | 99       |
| 40) Dibromomethane           | 9.688          | 93   | 45857               | 17.778  | ug/l   | 92       |
| 41) Bromodichloromethane     | 9.871          | 83   | 100612              | 19.098  | ug/l   | 99       |
| 42) Vinyl Acetate            | 6.589          | 43   | 987928m             | 92.284  | ug/l   |          |

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Manual Integrations  
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Reviewed By : John Carlone 10/20/2025  
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| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.547  | 43   | 109471   | 18.122  | ug/l   | 96       |
| 44) Isopropyl Acetate         | 8.671  | 43   | 174478   | 17.684  | ug/l   | 98       |
| 45) 1,4-Dioxane               | 9.682  | 88   | 24296    | 370.259 | ug/l # | 92       |
| 46) Methyl methacrylate       | 9.659  | 41   | 76543    | 17.617  | ug/l   | 96       |
| 47) n-amyl Acetate            | 12.671 | 43   | 106012m  | 22.670  | ug/l   |          |
| 48) t-1,3-Dichloropropene     | 10.812 | 75   | 99242    | 16.941  | ug/l   | 97       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 104638   | 17.124  | ug/l   | 95       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 59043    | 17.284  | ug/l   | 98       |
| 51) Ethyl methacrylate        | 10.853 | 69   | 98182    | 16.983  | ug/l   | 96       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 106331   | 17.841  | ug/l   | 100      |
| 53) Dibromochloromethane      | 11.335 | 129  | 69666    | 17.059  | ug/l   | 99       |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 60881    | 16.671  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 117845   | 37.765  | ug/l   | 98       |
| 56) Bromoform                 | 12.559 | 173  | 41642    | 15.083  | ug/l   | 96       |
| 58) 4-Methyl-2-Pentanone      | 10.424 | 43   | 532449   | 91.427  | ug/l   | 97       |
| 59) 2-Hexanone                | 11.176 | 43   | 341153   | 88.725  | ug/l   | 98       |
| 61) Tetrachloroethene         | 11.082 | 164  | 45704    | 17.334  | ug/l   | 97       |
| 62) Toluene                   | 10.606 | 91   | 264818   | 17.931  | ug/l   | 100      |
| 64) Chlorobenzene             | 11.871 | 112  | 165907   | 17.587  | ug/l   | 96       |
| 65) 1,1,1,2-Tetrachloroethane | 11.935 | 131  | 56872    | 17.494  | ug/l   | 98       |
| 66) Ethyl Benzene             | 11.941 | 91   | 289621   | 18.035  | ug/l   | 99       |
| 67) m/p-Xylenes               | 12.053 | 106  | 222818   | 35.991  | ug/l   | 99       |
| 68) o-Xylene                  | 12.376 | 106  | 108867   | 17.665  | ug/l   | 96       |
| 69) Styrene                   | 12.388 | 104  | 176336   | 17.296  | ug/l   | 98       |
| 70) Isopropylbenzene          | 12.671 | 105  | 275336   | 18.228  | ug/l   | 98       |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 91451    | 17.858  | ug/l   | 99       |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 88199m   | 18.545  | ug/l   |          |
| 73) Bromobenzene              | 12.959 | 156  | 62442    | 16.914  | ug/l   | 89       |
| 74) n-propylbenzene           | 13.012 | 91   | 332803   | 18.251  | ug/l   | 99       |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 200546   | 17.987  | ug/l   | 97       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 230269   | 17.947  | ug/l   | 96       |
| 77) t-1,4-Dichloro-2-butene   | 12.718 | 75   | 29556    | 15.594  | ug/l   | 92       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 203667   | 17.980  | ug/l   | 97       |
| 79) tert-butylbenzene         | 13.418 | 119  | 204936   | 18.425  | ug/l   | 99       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 227695   | 17.727  | ug/l   | 96       |
| 81) sec-Butylbenzene          | 13.594 | 105  | 295482   | 18.894  | ug/l   | 98       |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 242150   | 18.136  | ug/l   | 98       |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 120891   | 17.404  | ug/l   | 93       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 124462   | 17.374  | ug/l   | 98       |
| 85) n-Butylbenzene            | 14.035 | 91   | 230260   | 18.537  | ug/l   | 99       |
| 86) Hexachloroethane          | 14.306 | 117  | 46511    | 17.389  | ug/l   | 89       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 117856   | 17.250  | ug/l   | 100      |
| 88) 1,2-Dibromo-3-Chloropr... | 14.694 | 75   | 22559    | 19.181  | ug/l   | 84       |
| 89) 1,2,4-Trichlorobenzene    | 15.811 | 180  | 62146    | 15.270  | ug/l   | 98       |
| 90) Hexachlorobutadiene       | 15.470 | 225  | 25367    | 17.909  | ug/l   | 99       |
| 91) Naphthalene               | 15.611 | 128  | 242149   | 16.252  | ug/l   | 100      |
| 92) 1,2,3-Trichlorobenzene    | 15.811 | 180  | 62146    | 15.270  | ug/l   | 98       |

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

