

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN073025\  
 Data File : VN087438.D  
 Acq On : 30 Jul 2025 09:57  
 Operator : JC\MD  
 Sample : VN0730WBS01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0730WBS01

Manual Integrations  
 APPROVED

Reviewed By :John  
 Carlone

07/31/2025  
 Supervised By :Mahesh  
 Dadoda

Quant Time: Jul 31 01:12:00 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N072825W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Jul 28 11:35:47 2025  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) | D  |
|------------------------------|--------|-------|----------|----------|-------|----------|----|
| -----                        |        |       |          |          |       |          | 07 |
| Internal Standards           |        |       |          |          |       |          |    |
| 1) Bromochloromethane        | 7.800  | 128   | 49112    | 30.000   | ug/l  | 0.00     |    |
| 28) 1,4-Difluorobenzene      | 9.089  | 114   | 271089   | 30.000   | ug/l  | 0.00     |    |
| 57) Chlorobenzene-d5         | 11.847 | 117   | 246291   | 30.000   | ug/l  | 0.00     |    |
| System Monitoring Compounds  |        |       |          |          |       |          |    |
| 27) 1,2-Dichloroethane-d4    | 8.559  | 65    | 116642   | 31.059   | ug/l  | 0.00     |    |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | =     | 103.533% |    |
| 60) 4-Bromofluorobenzene     | 12.829 | 95    | 116180   | 28.726   | ug/l  | 0.00     |    |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | =     | 95.767%  |    |
| 63) Toluene-d8               | 10.547 | 98    | 340245   | 30.082   | ug/l  | 0.00     |    |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | =     | 100.267% |    |
| Target Compounds             |        |       |          |          |       | Qvalue   |    |
| 2) Dichlorodifluoromethane   | 2.142  | 85    | 55856    | 19.493   | ug/l  | 97       |    |
| 3) Chloromethane             | 2.383  | 50    | 59897    | 19.691   | ug/l  | 100      |    |
| 4) Vinyl Chloride            | 2.542  | 62    | 58308    | 18.946   | ug/l  | 99       |    |
| 5) Bromomethane              | 2.983  | 94    | 29324    | 19.539   | ug/l  | 92       |    |
| 6) Chloroethane              | 3.142  | 64    | 36492    | 21.023   | ug/l  | 97       |    |
| 7) Trichlorofluoromethane    | 3.512  | 101   | 79493    | 20.531   | ug/l  | 91       |    |
| 8) Diethyl Ether             | 3.959  | 74    | 36526    | 22.603   | ug/l  | 99       |    |
| 9) 1,1,2-Trichlorotrifluo... | 4.359  | 101   | 43110m   | 20.411   | ug/l  |          |    |
| 10) 1,1-Dichloroethene       | 4.342  | 96    | 43877    | 20.883   | ug/l  | 94       |    |
| 11) Methyl Iodide            | 4.577  | 142   | 28500    | 14.981   | ug/l  | 91       |    |
| 12) Methyl Acetate           | 5.012  | 43    | 99268    | 21.669   | ug/l  | 99       |    |
| 13) Acrolein                 | 4.171  | 56    | 50220    | 134.418  | ug/l  | 96       |    |
| 14) Acrylonitrile            | 5.706  | 53    | 200441   | 100.904  | ug/l  | 99       |    |
| 15) Acetone                  | 4.418  | 58    | 56201m   | 122.070  | ug/l  |          |    |
| 16) Carbon Disulfide         | 4.695  | 76    | 128474   | 17.206   | ug/l  | 99       |    |
| 17) Allyl chloride           | 5.018  | 41    | 90664    | 18.520   | ug/l  | 97       |    |
| 18) Methylene Chloride       | 5.259  | 84    | 59682    | 18.868   | ug/l  | 92       |    |
| 19) trans-1,2-Dichloroethene | 5.765  | 96    | 53359    | 17.877   | ug/l  | 98       |    |
| 20) Diisopropyl ether        | 6.665  | 45    | 221177   | 19.858   | ug/l  | 97       |    |
| 21) 1,1-Dichloroethane       | 6.559  | 63    | 110956   | 19.655   | ug/l  | 98       |    |
| 22) cis-1,2-Dichloroethene   | 7.471  | 96    | 67924    | 18.723   | ug/l  | 99       |    |
| 23) tert-Butyl Alcohol       | 5.530  | 59    | 80490    | 104.539  | ug/l  | 100      |    |
| 24) Methyl tert-Butyl Ether  | 5.783  | 73    | 205911   | 19.754   | ug/l  | 98       |    |
| 25) Chloroform               | 7.953  | 83    | 112293   | 19.703   | ug/l  | 93       |    |
| 26) Cyclohexane              | 8.242  | 56    | 90697    | 17.396   | ug/l  | #        | 93 |
| 29) 1,1-Dichloropropene      | 8.353  | 75    | 71058    | 18.464   | ug/l  |          | 97 |
| 30) 2-Butanone               | 7.471  | 43    | 297647   | 106.752  | ug/l  |          | 99 |
| 31) 2,2-Dichloropropane      | 7.477  | 77    | 95585    | 19.933   | ug/l  |          | 97 |
| 32) 1,1,1-Trichloroethane    | 8.153  | 97    | 85774    | 18.543   | ug/l  |          | 98 |
| 33) Carbon Tetrachloride     | 8.347  | 117   | 69921    | 18.331   | ug/l  |          | 89 |
| 34) Benzene                  | 8.589  | 78    | 245758   | 19.525   | ug/l  |          | 98 |
| 35) Methacrylonitrile        | 7.771  | 41    | 64452    | 20.179   | ug/l  |          | 97 |
| 36) 1,2-Dichloroethane       | 8.653  | 62    | 83679    | 19.976   | ug/l  | #        | 92 |
| 37) Trichloroethene          | 9.336  | 130   | 52219    | 18.175   | ug/l  | #        | 79 |
| 38) Methylcyclohexane        | 9.583  | 83    | 87308    | 17.590   | ug/l  |          | 97 |
| 39) 1,2-Dichloropropane      | 9.600  | 63    | 61914    | 19.538   | ug/l  |          | 92 |
| 40) Dibromomethane           | 9.689  | 93    | 44055    | 19.598   | ug/l  |          | 98 |
| 41) Bromodichloromethane     | 9.871  | 83    | 90515    | 20.007   | ug/l  |          | 95 |
| 42) Vinyl Acetate            | 6.595  | 43    | 1045165  | 111.388  | ug/l  |          | 96 |

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 ALS Vial : 3 Sample Multiplier: 1

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| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |     |
|-------------------------------|--------|------|----------|---------|-------|----------|-----|
| 43) Ethyl Acetate             | 7.547  | 43   | 113032   | 19.775  | ug/l  | #        | 67  |
| 44) Isopropyl Acetate         | 8.671  | 43   | 196705   | 21.542  | ug/l  |          | 92  |
| 45) 1,4-Dioxane               | 9.683  | 88   | 25213    | 435.179 | ug/l  |          | 96  |
| 46) Methyl methacrylate       | 9.665  | 41   | 89192    | 20.978  | ug/l  |          | 95  |
| 47) n-amyl Acetate            | 12.530 | 43   | 68970m   | 18.321  | ug/l  |          |     |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 102545   | 20.134  | ug/l  |          | 98  |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 103474   | 19.344  | ug/l  |          | 94  |
| 50) 1,1,2-Trichloroethane     | 11.000 | 97   | 61484    | 20.548  | ug/l  |          | 97  |
| 51) Ethyl methacrylate        | 10.859 | 69   | 106582   | 19.668  | ug/l  |          | 94  |
| 52) 1,3-Dichloropropane       | 11.147 | 76   | 106517   | 20.597  | ug/l  |          | 98  |
| 53) Dibromochloromethane      | 11.341 | 129  | 67198    | 19.579  | ug/l  |          | 97  |
| 54) 1,2-Dibromoethane         | 11.453 | 107  | 62459    | 19.838  | ug/l  |          | 97  |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 307484   | 138.008 | ug/l  |          | 99  |
| 56) Bromoform                 | 12.559 | 173  | 45997    | 19.098  | ug/l  |          | 98  |
| 58) 4-Methyl-2-Pentanone      | 10.430 | 43   | 598355   | 107.858 | ug/l  |          | 98  |
| 59) 2-Hexanone                | 11.183 | 43   | 396291   | 103.079 | ug/l  |          | 98  |
| 61) Tetrachloroethene         | 11.083 | 164  | 42271    | 18.077  | ug/l  |          | 94  |
| 62) Toluene                   | 10.612 | 91   | 265234   | 19.082  | ug/l  |          | 100 |
| 64) Chlorobenzene             | 11.877 | 112  | 161138   | 18.851  | ug/l  |          | 96  |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 57380    | 19.796  | ug/l  |          | 98  |
| 66) Ethyl Benzene             | 11.941 | 91   | 288027   | 18.966  | ug/l  |          | 100 |
| 67) m/p-Xylenes               | 12.053 | 106  | 213320   | 37.489  | ug/l  |          | 98  |
| 68) o-Xylene                  | 12.377 | 106  | 107584   | 19.321  | ug/l  |          | 97  |
| 69) Styrene                   | 12.394 | 104  | 182419   | 19.152  | ug/l  |          | 98  |
| 70) Isopropylbenzene          | 12.677 | 105  | 272570   | 19.061  | ug/l  |          | 98  |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 96360    | 19.761  | ug/l  |          | 99  |
| 72) 1,2,3-Trichloropropane    | 12.977 | 75   | 82734m   | 18.653  | ug/l  |          |     |
| 73) Bromobenzene              | 12.959 | 156  | 65156    | 19.610  | ug/l  |          | 95  |
| 74) n-propylbenzene           | 13.018 | 91   | 340238   | 19.271  | ug/l  |          | 97  |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 201268   | 19.208  | ug/l  |          | 100 |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 225695   | 19.051  | ug/l  |          | 97  |
| 77) t-1,4-Dichloro-2-butene   | 12.718 | 75   | 33368    | 17.729  | ug/l  |          | 94  |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 205233   | 19.074  | ug/l  |          | 99  |
| 79) tert-butylbenzene         | 13.418 | 119  | 188402   | 18.409  | ug/l  |          | 98  |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 225466   | 19.180  | ug/l  |          | 98  |
| 81) sec-Butylbenzene          | 13.594 | 105  | 284356   | 18.705  | ug/l  |          | 99  |
| 82) p-Isopropyltoluene        | 13.712 | 119  | 235598   | 19.094  | ug/l  |          | 100 |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 121415   | 19.310  | ug/l  |          | 99  |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 122695   | 18.660  | ug/l  |          | 98  |
| 85) n-Butylbenzene            | 14.035 | 91   | 233841   | 18.818  | ug/l  |          | 98  |
| 86) Hexachloroethane          | 14.312 | 117  | 46491    | 18.552  | ug/l  |          | 94  |
| 87) 1,2-Dichlorobenzene       | 14.088 | 146  | 120173   | 19.660  | ug/l  |          | 97  |
| 88) 1,2-Dibromo-3-Chloropr... | 14.694 | 75   | 21882    | 19.442  | ug/l  |          | 94  |
| 89) 1,2,4-Trichlorobenzene    | 15.812 | 180  | 67898    | 18.212  | ug/l  |          | 97  |
| 90) Hexachlorobutadiene       | 15.476 | 225  | 23513    | 16.565  | ug/l  |          | 93  |
| 91) Naphthalene               | 15.618 | 128  | 268427   | 19.050  | ug/l  |          | 99  |
| 92) 1,2,3-Trichlorobenzene    | 15.812 | 180  | 67898    | 18.212  | ug/l  |          | 97  |

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

