

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080625\  
 Data File : VN087470.D  
 Acq On : 06 Aug 2025 10:35  
 Operator : JC\MD  
 Sample : VN0806WBS02  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0806WBS02

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 08/07/2025  
 Supervised By : Mahesh Dadoda 08/07/2025

Quant Time: Aug 07 03:32:34 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                     | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|------------------------------|--------|-------|----------|----------|------------|----------|
| -----                        |        |       |          |          |            |          |
| Internal Standards           |        |       |          |          |            |          |
| 1) Bromochloromethane        | 7.794  | 128   | 63036    | 30.000   | ug/l       | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.083  | 114   | 350968   | 30.000   | ug/l       | 0.00     |
| 57) Chlorobenzene-d5         | 11.847 | 117   | 308794   | 30.000   | ug/l       | 0.00     |
| System Monitoring Compounds  |        |       |          |          |            |          |
| 27) 1,2-Dichloroethane-d4    | 8.565  | 65    | 174573   | 30.026   | ug/l       | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 110 | Recovery | = 100.100% |          |
| 60) 4-Bromofluorobenzene     | 12.829 | 95    | 156944   | 29.533   | ug/l       | 0.00     |
| Spiked Amount                | 30.000 | Range | 63 - 112 | Recovery | = 98.433%  |          |
| 63) Toluene-d8               | 10.547 | 98    | 447269   | 31.479   | ug/l       | 0.00     |
| Spiked Amount                | 30.000 | Range | 91 - 112 | Recovery | = 104.933% |          |
| Target Compounds             |        |       |          |          |            | Qvalue   |
| 2) Dichlorodifluoromethane   | 2.142  | 85    | 84455    | 20.521   | ug/l       | 99       |
| 3) Chloromethane             | 2.383  | 50    | 77354    | 18.319   | ug/l       | 95       |
| 4) Vinyl Chloride            | 2.542  | 62    | 85936    | 19.188   | ug/l       | 98       |
| 5) Bromomethane              | 2.983  | 94    | 46645    | 19.242   | ug/l       | 98       |
| 6) Chloroethane              | 3.136  | 64    | 53696    | 18.593   | ug/l       | 96       |
| 7) Trichlorofluoromethane    | 3.512  | 101   | 124744   | 19.354   | ug/l       | 99       |
| 8) Diethyl Ether             | 3.965  | 74    | 48551    | 18.081   | ug/l       | 99       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371  | 101   | 63854    | 19.428   | ug/l       | 86       |
| 10) 1,1-Dichloroethene       | 4.342  | 96    | 63624    | 18.429   | ug/l       | 92       |
| 11) Methyl Iodide            | 4.577  | 142   | 43232    | 15.903   | ug/l       | 93       |
| 12) Methyl Acetate           | 5.012  | 43    | 109890   | 17.248   | ug/l       | 98       |
| 13) Acrolein                 | 4.183  | 56    | 102276   | 105.106  | ug/l       | 97       |
| 14) Acrylonitrile            | 5.712  | 53    | 240574   | 86.475   | ug/l       | 99       |
| 15) Acetone                  | 4.418  | 58    | 70244    | 88.370   | ug/l       | 94       |
| 16) Carbon Disulfide         | 4.706  | 76    | 194781   | 18.188   | ug/l       | 95       |
| 17) Allyl chloride           | 5.012  | 41    | 120766   | 17.162   | ug/l       | 95       |
| 18) Methylene Chloride       | 5.271  | 84    | 79613    | 17.913   | ug/l       | 94       |
| 19) trans-1,2-Dichloroethene | 5.777  | 96    | 70752    | 17.233   | ug/l       | 86       |
| 20) Diisopropyl ether        | 6.659  | 45    | 284966   | 17.776   | ug/l       | 95       |
| 21) 1,1-Dichloroethane       | 6.553  | 63    | 145917   | 17.609   | ug/l       | 98       |
| 22) cis-1,2-Dichloroethene   | 7.471  | 96    | 88506    | 17.521   | ug/l       | 98       |
| 23) tert-Butyl Alcohol       | 5.518  | 59    | 91362    | 77.285   | ug/l #     | 100      |
| 24) Methyl tert-Butyl Ether  | 5.789  | 73    | 277272   | 17.625   | ug/l       | 100      |
| 25) Chloroform               | 7.953  | 83    | 153817   | 17.783   | ug/l       | 98       |
| 26) Cyclohexane              | 8.241  | 56    | 126774   | 19.108   | ug/l #     | 98       |
| 29) 1,1-Dichloropropene      | 8.353  | 75    | 104062   | 18.179   | ug/l       | 98       |
| 30) 2-Butanone               | 7.471  | 43    | 360765   | 85.500   | ug/l       | 100      |
| 31) 2,2-Dichloropropane      | 7.471  | 77    | 137611   | 18.639   | ug/l #     | 86       |
| 32) 1,1,1-Trichloroethane    | 8.153  | 97    | 135196   | 18.518   | ug/l       | 96       |
| 33) Carbon Tetrachloride     | 8.341  | 117   | 110471   | 18.214   | ug/l       | 98       |
| 34) Benzene                  | 8.588  | 78    | 321390   | 17.786   | ug/l       | 97       |
| 35) Methacrylonitrile        | 7.765  | 41    | 80702    | 17.724   | ug/l       | 96       |
| 36) 1,2-Dichloroethane       | 8.653  | 62    | 130491   | 17.867   | ug/l       | 99       |
| 37) Trichloroethene          | 9.330  | 130   | 72657    | 18.254   | ug/l       | 91       |
| 38) Methylcyclohexane        | 9.582  | 83    | 132305   | 19.923   | ug/l       | 99       |
| 39) 1,2-Dichloropropane      | 9.606  | 63    | 82530    | 17.814   | ug/l       | 96       |
| 40) Dibromomethane           | 9.688  | 93    | 60193    | 17.316   | ug/l       | 97       |
| 41) Bromodichloromethane     | 9.871  | 83    | 126328   | 17.489   | ug/l       | 94       |
| 42) Vinyl Acetate            | 6.594  | 43    | 1354933  | 97.509   | ug/l       | 98       |

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 ALS Vial : 4 Sample Multiplier: 1

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 APPROVED

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Quant Time: Aug 07 03:32:34 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N080525W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Aug 06 02:01:21 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|---------|--------|----------|
| 43) Ethyl Acetate             | 7.547  | 43   | 143471   | 17.600  | ug/l   | 99       |
| 44) Isopropyl Acetate         | 8.671  | 43   | 244043   | 17.662  | ug/l   | 99       |
| 45) 1,4-Dioxane               | 9.677  | 88   | 26373    | 299.395 | ug/l   | 95       |
| 46) Methyl methacrylate       | 9.665  | 41   | 114931   | 17.621  | ug/l   | 96       |
| 47) n-amyl Acetate            | 12.535 | 43   | 146595m  | 19.205  | ug/l   |          |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 134924   | 17.170  | ug/l   | 98       |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 136835   | 17.302  | ug/l   | 98       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 76697    | 17.463  | ug/l   | 97       |
| 51) Ethyl methacrylate        | 10.859 | 69   | 137000   | 17.712  | ug/l   | 93       |
| 52) 1,3-Dichloropropane       | 11.141 | 76   | 139144   | 17.585  | ug/l   | 99       |
| 53) Dibromochloromethane      | 11.335 | 129  | 85541    | 16.865  | ug/l   | 100      |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 79978    | 17.154  | ug/l   | 97       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 362193   | 88.950  | ug/l   | 99       |
| 56) Bromoform                 | 12.559 | 173  | 53597    | 15.976  | ug/l # | 99       |
| 58) 4-Methyl-2-Pentanone      | 10.424 | 43   | 725810   | 91.370  | ug/l   | 99       |
| 59) 2-Hexanone                | 11.177 | 43   | 476887   | 88.356  | ug/l   | 99       |
| 61) Tetrachloroethene         | 11.082 | 164  | 57212    | 19.017  | ug/l   | 92       |
| 62) Toluene                   | 10.612 | 91   | 343935   | 18.046  | ug/l   | 99       |
| 64) Chlorobenzene             | 11.871 | 112  | 209028   | 17.849  | ug/l   | 100      |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 72374    | 17.577  | ug/l   | 99       |
| 66) Ethyl Benzene             | 11.941 | 91   | 385481   | 18.147  | ug/l   | 99       |
| 67) m/p-Xylenes               | 12.047 | 106  | 284904   | 36.538  | ug/l   | 99       |
| 68) o-Xylene                  | 12.376 | 106  | 136380   | 17.779  | ug/l   | 100      |
| 69) Styrene                   | 12.388 | 104  | 230109   | 17.568  | ug/l   | 98       |
| 70) Isopropylbenzene          | 12.676 | 105  | 360620   | 18.504  | ug/l   | 99       |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 121791   | 18.239  | ug/l   | 100      |
| 72) 1,2,3-Trichloropropane    | 12.970 | 75   | 101562m  | 16.326  | ug/l   |          |
| 73) Bromobenzene              | 12.959 | 156  | 80824    | 17.890  | ug/l   | 98       |
| 74) n-propylbenzene           | 13.012 | 91   | 451926   | 18.568  | ug/l   | 100      |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 270517   | 18.068  | ug/l   | 100      |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 308229   | 18.472  | ug/l   | 100      |
| 77) t-1,4-Dichloro-2-butene   | 12.718 | 75   | 37731    | 16.023  | ug/l   | 95       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 277561   | 18.294  | ug/l   | 100      |
| 79) tert-butylbenzene         | 13.418 | 119  | 258242   | 18.355  | ug/l   | 95       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 314617   | 18.869  | ug/l   | 98       |
| 81) sec-Butylbenzene          | 13.594 | 105  | 395443   | 19.307  | ug/l   | 100      |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 325270   | 19.127  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 156476   | 18.188  | ug/l   | 98       |
| 84) 1,4-Dichlorobenzene       | 13.788 | 146  | 159901   | 18.333  | ug/l   | 99       |
| 85) n-Butylbenzene            | 14.035 | 91   | 323344   | 19.434  | ug/l   | 99       |
| 86) Hexachloroethane          | 14.312 | 117  | 58870    | 17.727  | ug/l   | 97       |
| 87) 1,2-Dichlorobenzene       | 14.088 | 146  | 147233   | 17.929  | ug/l   | 98       |
| 88) 1,2-Dibromo-3-Chloropr... | 14.700 | 75   | 29412    | 17.387  | ug/l   | 96       |
| 89) 1,2,4-Trichlorobenzene    | 15.817 | 180  | 87575    | 17.844  | ug/l   | 98       |
| 90) Hexachlorobutadiene       | 15.476 | 225  | 35511    | 18.608  | ug/l   | 93       |
| 91) Naphthalene               | 15.611 | 128  | 333624   | 17.828  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.817 | 180  | 87575    | 17.844  | ug/l   | 98       |

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

