

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080725\  
 Data File : VN087485.D  
 Acq On : 07 Aug 2025 11:09  
 Operator : JC\MD  
 Sample : VN0807WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0807WBSD01

Manual Integrations  
 APPROVED

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

Quant Time: Aug 08 01:17:01 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        | 7.800          | 128  | 60691      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.083          | 114  | 333291     | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.847         | 117  | 299942     | 30.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.565          | 65   | 171051     | 30.557   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 101.867% |        |          |
| 60) 4-Bromofluorobenzene     | 12.829         | 95   | 151429     | 29.336   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 97.800%  |        |          |
| 63) Toluene-d8               | 10.547         | 98   | 410968     | 29.778   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 99.267%  |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.142          | 85   | 91742      | 23.153   | ug/l   | 95       |
| 3) Chloromethane             | 2.383          | 50   | 87913      | 21.624   | ug/l   | 99       |
| 4) Vinyl Chloride            | 2.542          | 62   | 97122      | 22.524   | ug/l   | 95       |
| 5) Bromomethane              | 2.983          | 94   | 50447      | 21.614   | ug/l   | 88       |
| 6) Chloroethane              | 3.136          | 64   | 62704      | 22.551   | ug/l   | 97       |
| 7) Trichlorofluoromethane    | 3.512          | 101  | 138489     | 22.317   | ug/l   | 95       |
| 8) Diethyl Ether             | 3.965          | 74   | 57590      | 22.276   | ug/l   | 96       |
| 9) 1,1,2-Trichlorotrifluo... | 4.365          | 101  | 72926      | 23.045   | ug/l   | 87       |
| 10) 1,1-Dichloroethene       | 4.330          | 96   | 77034      | 23.175   | ug/l   | 87       |
| 11) Methyl Iodide            | 4.577          | 142  | 50122      | 19.150   | ug/l   | 92       |
| 12) Methyl Acetate           | 5.018          | 43   | 130658     | 21.301   | ug/l   | 93       |
| 13) Acrolein                 | 4.183          | 56   | 112933     | 120.543  | ug/l   | 100      |
| 14) Acrylonitrile            | 5.712          | 53   | 282311     | 105.398  | ug/l   | 100      |
| 15) Acetone                  | 4.424          | 58   | 81356      | 106.304  | ug/l   | 98       |
| 16) Carbon Disulfide         | 4.706          | 76   | 211753     | 20.537   | ug/l   | 98       |
| 17) Allyl chloride           | 5.012          | 41   | 136783     | 20.189   | ug/l   | 95       |
| 18) Methylene Chloride       | 5.259          | 84   | 89323      | 20.874   | ug/l   | 91       |
| 19) trans-1,2-Dichloroethene | 5.765          | 96   | 82334m     | 20.829   | ug/l   |          |
| 20) Diisopropyl ether        | 6.665          | 45   | 315107     | 20.416   | ug/l   | 98       |
| 21) 1,1-Dichloroethane       | 6.553          | 63   | 163918     | 20.546   | ug/l   | 97       |
| 22) cis-1,2-Dichloroethene   | 7.471          | 96   | 99320      | 20.421   | ug/l   | 97       |
| 23) tert-Butyl Alcohol       | 5.524          | 59   | 114200     | 100.336  | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.789          | 73   | 313483     | 20.697   | ug/l   | 99       |
| 25) Chloroform               | 7.953          | 83   | 176256     | 21.165   | ug/l   | 90       |
| 26) Cyclohexane              | 8.241          | 56   | 138422     | 21.670   | ug/l # | 97       |
| 29) 1,1-Dichloropropene      | 8.353          | 75   | 116818     | 21.490   | ug/l   | 97       |
| 30) 2-Butanone               | 7.471          | 43   | 425427     | 106.172  | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 7.471          | 77   | 149737     | 21.357   | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 8.147          | 97   | 151139     | 21.800   | ug/l   | 96       |
| 33) Carbon Tetrachloride     | 8.347          | 117  | 120394     | 20.903   | ug/l   | 92       |
| 34) Benzene                  | 8.588          | 78   | 358063     | 20.866   | ug/l   | 97       |
| 35) Methacrylonitrile        | 7.759          | 41   | 93160      | 21.545   | ug/l   | 98       |
| 36) 1,2-Dichloroethane       | 8.653          | 62   | 145527     | 20.983   | ug/l   | 99       |
| 37) Trichloroethene          | 9.335          | 130  | 81659      | 21.604   | ug/l   | 85       |
| 38) Methylcyclohexane        | 9.583          | 83   | 143366     | 22.734   | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 9.600          | 63   | 95303      | 21.662   | ug/l   | 99       |
| 40) Dibromomethane           | 9.688          | 93   | 70468      | 21.347   | ug/l   | 98       |
| 41) Bromodichloromethane     | 9.871          | 83   | 142197     | 20.730   | ug/l # | 99       |
| 42) Vinyl Acetate            | 6.594          | 43   | 1398376    | 105.972  | ug/l   | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN080725\  
 Data File : VN087485.D  
 Acq On : 07 Aug 2025 11:09  
 Operator : JC\MD  
 Sample : VN0807WBSD01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VN0807WBSD01

Manual Integrations  
 APPROVED

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

Quant Time: Aug 08 01:17:01 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   | 165860   | 21.426  | ug/l   | 96       |
| 44) Isopropyl Acetate         | 8.677  | 43   | 278907   | 21.255  | ug/l   | 99       |
| 45) 1,4-Dioxane               | 9.683  | 88   | 36702    | 438.751 | ug/l   | 98       |
| 46) Methyl methacrylate       | 9.665  | 41   | 129656   | 20.933  | ug/l   | 97       |
| 47) n-amyl Acetate            | 12.518 | 43   | 154492m  | 21.313  | ug/l   |          |
| 48) t-1,3-Dichloropropene     | 10.818 | 75   | 152028   | 20.372  | ug/l   | 100      |
| 49) cis-1,3-Dichloropropene   | 10.294 | 75   | 153959   | 20.500  | ug/l   | 93       |
| 50) 1,1,2-Trichloroethane     | 10.994 | 97   | 89666    | 21.499  | ug/l   | 96       |
| 51) Ethyl methacrylate        | 10.859 | 69   | 146701   | 19.972  | ug/l   | 96       |
| 52) 1,3-Dichloropropane       | 11.147 | 76   | 158971   | 21.157  | ug/l   | 98       |
| 53) Dibromochloromethane      | 11.341 | 129  | 99557    | 20.670  | ug/l   | 98       |
| 54) 1,2-Dibromoethane         | 11.447 | 107  | 93232    | 21.058  | ug/l   | 99       |
| 55) 2-Chloroethyl vinyl ether | 10.141 | 63   | 358165   | 92.626  | ug/l   | 100      |
| 56) Bromoform                 | 12.559 | 173  | 63002    | 19.776  | ug/l # | 98       |
| 58) 4-Methyl-2-Pentanone      | 10.430 | 43   | 827022   | 107.184 | ug/l   | 99       |
| 59) 2-Hexanone                | 11.182 | 43   | 550672   | 105.038 | ug/l   | 99       |
| 61) Tetrachloroethene         | 11.082 | 164  | 64305    | 22.006  | ug/l   | 95       |
| 62) Toluene                   | 10.612 | 91   | 387636   | 20.939  | ug/l   | 100      |
| 64) Chlorobenzene             | 11.871 | 112  | 233549   | 20.531  | ug/l   | 98       |
| 65) 1,1,1,2-Tetrachloroethane | 11.941 | 131  | 82708    | 20.680  | ug/l   | 98       |
| 66) Ethyl Benzene             | 11.941 | 91   | 435806   | 21.121  | ug/l   | 98       |
| 67) m/p-Xylenes               | 12.053 | 106  | 313770   | 41.428  | ug/l   | 100      |
| 68) o-Xylene                  | 12.376 | 106  | 154757   | 20.770  | ug/l   | 100      |
| 69) Styrene                   | 12.394 | 104  | 264320   | 20.775  | ug/l   | 99       |
| 70) Isopropylbenzene          | 12.671 | 105  | 409954   | 21.656  | ug/l   | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 12.918 | 83   | 142352   | 21.947  | ug/l   | 99       |
| 72) 1,2,3-Trichloropropane    | 12.971 | 75   | 122632m  | 20.295  | ug/l   |          |
| 73) Bromobenzene              | 12.965 | 156  | 91640    | 20.882  | ug/l   | 99       |
| 74) n-propylbenzene           | 13.012 | 91   | 510865   | 21.609  | ug/l   | 99       |
| 75) 2-Chlorotoluene           | 13.106 | 91   | 305651   | 21.018  | ug/l   | 98       |
| 76) 1,3,5-Trimethylbenzene    | 13.153 | 105  | 339823   | 20.966  | ug/l   | 98       |
| 77) t-1,4-Dichloro-2-butene   | 12.723 | 75   | 47751    | 20.876  | ug/l   | 91       |
| 78) 4-Chlorotoluene           | 13.200 | 91   | 311615   | 21.145  | ug/l   | 100      |
| 79) tert-butylbenzene         | 13.418 | 119  | 294944   | 21.583  | ug/l   | 97       |
| 80) 1,2,4-Trimethylbenzene    | 13.459 | 105  | 344709   | 21.284  | ug/l   | 98       |
| 81) sec-Butylbenzene          | 13.594 | 105  | 443576   | 22.296  | ug/l   | 100      |
| 82) p-Isopropyltoluene        | 13.706 | 119  | 358297   | 21.691  | ug/l   | 99       |
| 83) 1,3-Dichlorobenzene       | 13.712 | 146  | 176856   | 21.164  | ug/l   | 98       |
| 84) 1,4-Dichlorobenzene       | 13.794 | 146  | 183521   | 21.662  | ug/l   | 100      |
| 85) n-Butylbenzene            | 14.035 | 91   | 354937   | 21.962  | ug/l   | 99       |
| 86) Hexachloroethane          | 14.312 | 117  | 68197    | 21.142  | ug/l   | 97       |
| 87) 1,2-Dichlorobenzene       | 14.082 | 146  | 172184   | 21.586  | ug/l   | 100      |
| 88) 1,2-Dibromo-3-Chloropr... | 14.700 | 75   | 34090    | 20.747  | ug/l   | 96       |
| 89) 1,2,4-Trichlorobenzene    | 15.812 | 180  | 99079    | 20.784  | ug/l   | 98       |
| 90) Hexachlorobutadiene       | 15.476 | 225  | 41477    | 22.375  | ug/l   | 95       |
| 91) Naphthalene               | 15.612 | 128  | 375474   | 20.656  | ug/l   | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.812 | 180  | 99079    | 20.784  | ug/l   | 98       |

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

