

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN052925\  
 Data File : VN086809.D  
 Acq On : 29 May 2025 12:08  
 Operator : JC\MD  
 Sample : VSTDICC100  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 VSTDICC100

Manual Integrations  
 APPROVED

Reviewed By : John Carlone 05/30/2025  
 Supervised By : Mahesh Dadoda 05/30/2025

Quant Time: May 30 01:59:30 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N052925W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri May 30 01:54:37 2025  
 Response via : Initial Calibration

| Compound                     | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|------------------------------|----------------|------|------------|----------|--------|----------|
| -----                        |                |      |            |          |        |          |
| Internal Standards           |                |      |            |          |        |          |
| 1) Bromochloromethane        | 7.812          | 128  | 38334      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene      | 9.100          | 114  | 214304     | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5         | 11.865         | 117  | 193437     | 30.000   | ug/l   | 0.00     |
|                              |                |      |            |          |        |          |
| System Monitoring Compounds  |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4    | 8.577          | 65   | 76939      | 29.212   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 110 |      | Recovery = | 97.367%  |        |          |
| 60) 4-Bromofluorobenzene     | 12.847         | 95   | 92260      | 30.379   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 63 - 112 |      | Recovery = | 101.267% |        |          |
| 63) Toluene-d8               | 10.565         | 98   | 265294     | 29.881   | ug/l   | 0.00     |
| Spiked Amount 30.000         | Range 91 - 112 |      | Recovery = | 99.600%  |        |          |
|                              |                |      |            |          |        |          |
| Target Compounds             |                |      |            |          | Qvalue |          |
| 2) Dichlorodifluoromethane   | 2.124          | 85   | 258696     | 99.363   | ug/l   | 99       |
| 3) Chloromethane             | 2.359          | 50   | 319345     | 95.132   | ug/l   | 100      |
| 4) Vinyl Chloride            | 2.512          | 62   | 304536     | 98.579   | ug/l   | 99       |
| 5) Bromomethane              | 2.942          | 94   | 150487     | 91.939   | ug/l   | 99       |
| 6) Chloroethane              | 3.112          | 64   | 181542     | 96.081   | ug/l   | 98       |
| 7) Trichlorofluoromethane    | 3.495          | 101  | 349727     | 96.658   | ug/l   | 98       |
| 8) Diethyl Ether             | 3.959          | 74   | 147376     | 97.647   | ug/l   | 98       |
| 9) 1,1,2-Trichlorotrifluo... | 4.371          | 101  | 217001     | 97.861   | ug/l   | 100      |
| 10) 1,1-Dichloroethene       | 4.336          | 96   | 221389     | 97.930   | ug/l   | 96       |
| 11) Methyl Iodide            | 4.583          | 142  | 263977     | 99.054   | ug/l   | 100      |
| 12) Methyl Acetate           | 5.024          | 43   | 248192     | 99.125   | ug/l   | 96       |
| 13) Acrolein                 | 4.177          | 56   | 140227     | 538.453  | ug/l   | 100      |
| 14) Acrylonitrile            | 5.712          | 53   | 572418     | 489.945  | ug/l   | 99       |
| 15) Acetone                  | 4.424          | 58   | 142325     | 481.129  | ug/l   | 89       |
| 16) Carbon Disulfide         | 4.712          | 76   | 643462     | 97.508   | ug/l   | 100      |
| 17) Allyl chloride           | 5.024          | 41   | 326642     | 97.259   | ug/l   | 97       |
| 18) Methylene Chloride       | 5.271          | 84   | 247370     | 94.222   | ug/l   | 99       |
| 19) trans-1,2-Dichloroethene | 5.783          | 96   | 231986     | 98.058   | ug/l   | 92       |
| 20) Diisopropyl ether        | 6.671          | 45   | 716257     | 96.835   | ug/l   | 97       |
| 21) 1,1-Dichloroethane       | 6.565          | 63   | 430769     | 96.501   | ug/l   | 99       |
| 22) cis-1,2-Dichloroethene   | 7.482          | 96   | 280022     | 97.738   | ug/l   | 100      |
| 23) tert-Butyl Alcohol       | 5.518          | 59   | 185862     | 495.389  | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether  | 5.794          | 73   | 737949     | 99.046   | ug/l   | 98       |
| 25) Chloroform               | 7.965          | 83   | 419483     | 96.011   | ug/l   | 100      |
| 26) Cyclohexane              | 8.253          | 56   | 379428     | 98.210   | ug/l # | 96       |
| 29) 1,1-Dichloropropene      | 8.371          | 75   | 315673     | 100.185  | ug/l   | 99       |
| 30) 2-Butanone               | 7.477          | 43   | 685765     | 496.728  | ug/l   | 99       |
| 31) 2,2-Dichloropropane      | 7.488          | 77   | 362656     | 97.506   | ug/l   | 100      |
| 32) 1,1,1-Trichloroethane    | 8.165          | 97   | 359069     | 98.307   | ug/l   | 98       |
| 33) Carbon Tetrachloride     | 8.359          | 117  | 309754     | 99.209   | ug/l   | 97       |
| 34) Benzene                  | 8.600          | 78   | 1008328    | 98.353   | ug/l   | 98       |
| 35) Methacrylonitrile        | 7.777          | 41   | 155819     | 98.254   | ug/l   | 93       |
| 36) 1,2-Dichloroethane       | 8.665          | 62   | 294873     | 98.153   | ug/l   | 99       |
| 37) Trichloroethene          | 9.347          | 130  | 274827     | 96.644   | ug/l   | 97       |
| 38) Methylcyclohexane        | 9.600          | 83   | 359086     | 102.713  | ug/l   | 98       |
| 39) 1,2-Dichloropropane      | 9.618          | 63   | 243528     | 98.666   | ug/l   | 99       |
| 40) Dibromomethane           | 9.706          | 93   | 159966     | 99.092   | ug/l   | 100      |
| 41) Bromodichloromethane     | 9.882          | 83   | 332447     | 98.381   | ug/l   | 97       |
| 42) Vinyl Acetate            | 6.600          | 43   | 2122994    | 527.555  | ug/l   | 99       |

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 ClientSampleId :  
 VSTDICC100

Quant Time: May 30 01:59:30 2025  
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Manual Integrations  
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Reviewed By : John Carlone 05/30/2025  
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| Compound                      | R.T.   | QIon | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|------|----------|----------|-------|----------|
| 43) Ethyl Acetate             | 7.553  | 43   | 272622   | 96.504   | ug/l  | 96       |
| 44) Isopropyl Acetate         | 8.682  | 43   | 483974   | 99.870   | ug/l  | 100      |
| 45) 1,4-Dioxane               | 9.694  | 88   | 85390    | 1982.473 | ug/l  | 96       |
| 46) Methyl methacrylate       | 9.676  | 41   | 227258   | 101.704  | ug/l  | 96       |
| 47) n-amyl Acetate            | 12.488 | 43   | 402140   | 103.366  | ug/l  | 98       |
| 48) t-1,3-Dichloropropene     | 10.835 | 75   | 367895   | 101.739  | ug/l  | 98       |
| 49) cis-1,3-Dichloropropene   | 10.312 | 75   | 398175   | 100.110  | ug/l  | 98       |
| 50) 1,1,2-Trichloroethane     | 11.012 | 97   | 222150   | 97.707   | ug/l  | 98       |
| 51) Ethyl methacrylate        | 10.871 | 69   | 381546   | 103.617  | ug/l  | 96       |
| 52) 1,3-Dichloropropane       | 11.159 | 76   | 397338   | 98.473   | ug/l  | 100      |
| 53) Dibromochloromethane      | 11.359 | 129  | 257671   | 100.288  | ug/l  | 99       |
| 54) 1,2-Dibromoethane         | 11.465 | 107  | 230134   | 99.021   | ug/l  | 99       |
| 55) 2-Chloroethyl vinyl ether | 10.159 | 63   | 931955   | 527.263  | ug/l  | 99       |
| 56) Bromoform                 | 12.576 | 173  | 164734   | 101.759  | ug/l  | 99       |
| 58) 4-Methyl-2-Pentanone      | 10.441 | 43   | 1409635  | 496.637  | ug/l  | 98       |
| 59) 2-Hexanone                | 11.194 | 43   | 1029492  | 506.357  | ug/l  | 99       |
| 61) Tetrachloroethene         | 11.100 | 164  | 311565   | 95.819   | ug/l  | 95       |
| 62) Toluene                   | 10.629 | 91   | 1074429  | 98.623   | ug/l  | 100      |
| 64) Chlorobenzene             | 11.888 | 112  | 684904   | 98.580   | ug/l  | 100      |
| 65) 1,1,1,2-Tetrachloroethane | 11.959 | 131  | 227708   | 99.763   | ug/l  | 99       |
| 66) Ethyl Benzene             | 11.959 | 91   | 1195080  | 101.419  | ug/l  | 97       |
| 67) m/p-Xylenes               | 12.065 | 106  | 936163   | 202.455  | ug/l  | 99       |
| 68) o-Xylene                  | 12.394 | 106  | 459640   | 102.567  | ug/l  | 98       |
| 69) Styrene                   | 12.406 | 104  | 768837   | 102.976  | ug/l  | 99       |
| 70) Isopropylbenzene          | 12.694 | 105  | 1090941  | 102.353  | ug/l  | 100      |
| 71) 1,1,2,2-Tetrachloroethane | 12.935 | 83   | 262646   | 103.643  | ug/l  | 99       |
| 72) 1,2,3-Trichloropropane    | 12.988 | 75   | 297483m  | 95.286   | ug/l  |          |
| 73) Bromobenzene              | 12.976 | 156  | 267174   | 100.850  | ug/l  | 100      |
| 74) n-propylbenzene           | 13.029 | 91   | 1291676  | 102.310  | ug/l  | 99       |
| 75) 2-Chlorotoluene           | 13.123 | 91   | 810137   | 99.974   | ug/l  | 98       |
| 76) 1,3,5-Trimethylbenzene    | 13.170 | 105  | 913352   | 103.006  | ug/l  | 99       |
| 77) t-1,4-Dichloro-2-butene   | 12.735 | 75   | 127625   | 105.004  | ug/l  | 90       |
| 78) 4-Chlorotoluene           | 13.217 | 91   | 818933   | 102.021  | ug/l  | 99       |
| 79) tert-butylbenzene         | 13.435 | 119  | 787502   | 102.722  | ug/l  | 98       |
| 80) 1,2,4-Trimethylbenzene    | 13.476 | 105  | 918324   | 103.179  | ug/l  | 99       |
| 81) sec-Butylbenzene          | 13.611 | 105  | 1073411  | 102.776  | ug/l  | 100      |
| 82) p-Isopropyltoluene        | 13.723 | 119  | 921751   | 105.106  | ug/l  | 99       |
| 83) 1,3-Dichlorobenzene       | 13.729 | 146  | 502564   | 103.406  | ug/l  | 99       |
| 84) 1,4-Dichlorobenzene       | 13.806 | 146  | 499113   | 103.196  | ug/l  | 99       |
| 85) n-Butylbenzene            | 14.053 | 91   | 785009   | 106.922  | ug/l  | 99       |
| 86) Hexachloroethane          | 14.329 | 117  | 154764   | 103.546  | ug/l  | 98       |
| 87) 1,2-Dichlorobenzene       | 14.100 | 146  | 481287   | 102.658  | ug/l  | 100      |
| 88) 1,2-Dibromo-3-Chloropr... | 14.717 | 75   | 56473    | 105.824  | ug/l  | 95       |
| 89) 1,2,4-Trichlorobenzene    | 15.835 | 180  | 210585   | 107.328  | ug/l  | 97       |
| 90) Hexachlorobutadiene       | 15.494 | 225  | 85255    | 101.380  | ug/l  | 98       |
| 91) Naphthalene               | 15.635 | 128  | 764173   | 111.627  | ug/l  | 99       |
| 92) 1,2,3-Trichlorobenzene    | 15.835 | 180  | 210585   | 107.328  | ug/l  | 97       |

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

