

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN100925\  
 Data File : VN088053.D  
 Acq On : 09 Oct 2025 15:18  
 Operator : JC\MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 LabSampleId :  
 VSTDCCC020

Quant Time: Oct 10 01:07:52 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

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 1.718 | 1.468 | 14.6  | 78    | 0.00     |
| 3 M  | Chloromethane               | 1.948 | 1.564 | 19.7  | 76    | 0.00     |
| 4 M  | Vinyl Chloride              | 2.031 | 1.715 | 15.6  | 79    | 0.00     |
| 5 M  | Bromomethane                | 1.092 | 0.933 | 14.6  | 85    | 0.00     |
| 6 M  | Chloroethane                | 1.340 | 1.094 | 18.4  | 78    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 2.762 | 2.321 | 16.0  | 80    | 0.00     |
| 8 T  | Diethyl Ether               | 1.248 | 1.033 | 17.2  | 80    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 1.479 | 1.215 | 17.8  | 79    | 0.01     |
| 10 M | 1,1-Dichloroethene          | 1.577 | 1.310 | 16.9  | 79    | 0.00     |
| 11   | Methyl Iodide               | 1.454 | 1.059 | 27.2# | 83    | 0.00     |
| 12   | Methyl Acetate              | 2.564 | 2.057 | 19.8  | 77    | 0.00     |
| 13 M | Acrolein                    | 0.397 | 0.330 | 16.9  | 88    | 0.00     |
| 14 M | Acrylonitrile               | 1.237 | 0.940 | 24.0  | 73    | 0.00     |
| 15 M | Acetone                     | 0.362 | 0.262 | 27.6# | 68    | 0.00     |
| 16 M | Carbon Disulfide            | 4.945 | 4.075 | 17.6  | 79    | 0.00     |
| 17   | Allyl chloride              | 2.976 | 2.433 | 18.2  | 78    | 0.00     |
| 18 M | Methylene Chloride          | 2.005 | 1.665 | 17.0  | 81    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 1.824 | 1.535 | 15.8  | 80    | 0.00     |
| 20 T | Diisopropyl ether           | 6.776 | 5.721 | 15.6  | 80    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 3.528 | 3.037 | 13.9  | 82    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 2.283 | 1.861 | 18.5  | 78    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 0.496 | 0.355 | 28.4# | 68    | -0.02    |
| 24 M | Methyl tert-Butyl Ether     | 6.809 | 5.681 | 16.6  | 80    | -0.01    |
| 25 M | Chloroform                  | 3.640 | 3.054 | 16.1  | 81    | 0.00     |
| 26   | Cyclohexane                 | 2.923 | 2.300 | 21.3  | 73    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 2.336 | 2.386 | -2.1  | 97    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 93    | 0.00     |
| 29   | 1,1-Dichloropropene         | 0.430 | 0.362 | 15.8  | 80    | 0.00     |
| 30 M | 2-Butanone                  | 0.317 | 0.241 | 24.0  | 71    | -0.01    |
| 31   | 2,2-Dichloropropane         | 0.554 | 0.461 | 16.8  | 78    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 0.537 | 0.457 | 14.9  | 79    | 0.00     |
| 33 M | Carbon Tetrachloride        | 0.450 | 0.383 | 14.9  | 80    | 0.00     |
| 34 M | Benzene                     | 1.426 | 1.196 | 16.1  | 79    | 0.00     |
| 35   | Methacrylonitrile           | 0.334 | 0.262 | 21.6  | 73    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 0.495 | 0.420 | 15.2  | 80    | 0.00     |
| 37 M | Trichloroethene             | 0.338 | 0.274 | 18.9  | 76    | 0.00     |
| 38   | Methylcyclohexane           | 0.531 | 0.435 | 18.1  | 77    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 0.358 | 0.304 | 15.1  | 81    | 0.00     |
| 40   | Dibromomethane              | 0.260 | 0.221 | 15.0  | 80    | 0.00     |
| 41 M | Bromodichloromethane        | 0.532 | 0.446 | 16.2  | 80    | 0.00     |
| 42 M | Vinyl Acetate               | 1.080 | 0.939 | 13.1  | 87    | 0.00     |
| 43   | Ethyl Acetate               | 0.610 | 0.494 | 19.0  | 75    | -0.01    |
| 44   | Isopropyl Acetate           | 0.996 | 0.802 | 19.5  | 76    | 0.00     |
| 45 T | 1,4-Dioxane                 | 0.007 | 0.006 | 14.3  | 76    | 0.00     |
| 46   | Methyl methacrylate         | 0.439 | 0.366 | 16.6  | 88    | 0.00     |
| 47   | n-amyl Acetate              | 0.472 | 0.458 | 3.0   | 93    | 0.01     |
| 48 M | t-1,3-Dichloropropene       | 0.591 | 0.484 | 18.1  | 79    | 0.00     |

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 MSVOA\_N  
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 QLast Update : Thu Oct 09 02:36:32 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 49 T | cis-1,3-Dichloropropene     | 0.617 | 0.519 | 15.9  | 80    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 0.345 | 0.284 | 17.7  | 78    | 0.00     |
| 51   | Ethyl methacrylate          | 0.583 | 0.477 | 18.2  | 80    | 0.00     |
| 52   | 1,3-Dichloropropane         | 0.601 | 0.504 | 16.1  | 79    | 0.00     |
| 53 M | Dibromochloromethane        | 0.412 | 0.339 | 17.7  | 79    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 0.369 | 0.297 | 19.5  | 77    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 0.315 | 0.276 | 12.4  | 80    | 0.00     |
| 56 M | Bromoform                   | 0.279 | 0.209 | 25.1# | 73    | 0.00     |
| 57 I | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0   | 92    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 0.671 | 0.536 | 20.1  | 74    | 0.00     |
| 59 M | 2-Hexanone                  | 0.443 | 0.352 | 20.5  | 74    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 0.495 | 0.502 | -1.4  | 93    | 0.00     |
| 61 M | Tetrachloroethene           | 0.304 | 0.250 | 17.8  | 75    | 0.00     |
| 62 M | Toluene                     | 1.702 | 1.455 | 14.5  | 79    | 0.00     |
| 63 S | Toluene-d8                  | 1.337 | 1.375 | -2.8  | 94    | 0.00     |
| 64 M | Chlorobenzene               | 1.087 | 0.926 | 14.8  | 79    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 0.375 | 0.316 | 15.7  | 76    | 0.00     |
| 66 M | Ethyl Benzene               | 1.850 | 1.594 | 13.8  | 80    | 0.00     |
| 67 M | m/p-Xylenes                 | 0.713 | 0.615 | 13.7  | 79    | 0.00     |
| 68 M | o-Xylene                    | 0.710 | 0.606 | 14.6  | 79    | 0.00     |
| 69 M | Styrene                     | 1.175 | 1.000 | 14.9  | 81    | 0.00     |
| 70   | Isopropylbenzene            | 1.740 | 1.492 | 14.3  | 80    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 0.590 | 0.473 | 19.8  | 75    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 0.548 | 0.457 | 16.6  | 81    | 0.00     |
| 73   | Bromobenzene                | 0.425 | 0.347 | 18.4  | 75    | 0.00     |
| 74   | n-propylbenzene             | 2.101 | 1.799 | 14.4  | 80    | 0.00     |
| 75   | 2-Chlorotoluene             | 1.285 | 1.107 | 13.9  | 80    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 1.478 | 1.252 | 15.3  | 79    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 0.218 | 0.157 | 28.0# | 74    | 0.00     |
| 78   | 4-Chlorotoluene             | 1.305 | 1.145 | 12.3  | 81    | 0.00     |
| 79   | tert-butylbenzene           | 1.282 | 1.098 | 14.4  | 79    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 1.480 | 1.265 | 14.5  | 79    | 0.00     |
| 81   | sec-Butylbenzene            | 1.802 | 1.548 | 14.1  | 79    | 0.00     |
| 82   | p-Isopropyltoluene          | 1.538 | 1.297 | 15.7  | 78    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 0.800 | 0.673 | 15.9  | 77    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 0.825 | 0.707 | 14.3  | 78    | 0.00     |
| 85   | n-Butylbenzene              | 1.431 | 1.201 | 16.1  | 77    | 0.00     |
| 86 T | Hexachloroethane            | 0.308 | 0.253 | 17.9  | 77    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 0.787 | 0.658 | 16.4  | 77    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 0.136 | 0.104 | 23.5  | 68    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 0.469 | 0.365 | 22.2  | 72    | 0.00     |
| 90   | Hexachlorobutadiene         | 0.163 | 0.122 | 25.2# | 71    | 0.00     |
| 91 M | Naphthalene                 | 1.717 | 1.322 | 23.0  | 71    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 0.469 | 0.365 | 22.2  | 72    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0