

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX061325\  
 Data File : VX046675.D  
 Acq On : 13 Jun 2025 09:26  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: Jun 13 22:59:53 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X061025W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Jun 11 06:20:28 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   | 121   | -0.01    |
| 2 M  | Dichlorodifluoromethane     | 1.950 | 1.976 | -1.3  | 117   | 0.00     |
| 3 M  | Chloromethane               | 2.010 | 1.892 | 5.9   | 108   | 0.00     |
| 4 M  | Vinyl Chloride              | 1.937 | 1.832 | 5.4   | 109   | 0.00     |
| 5 M  | Bromomethane                | 1.157 | 1.095 | 5.4   | 103   | 0.00     |
| 6 M  | Chloroethane                | 1.113 | 1.003 | 9.9   | 110   | 0.00     |
| 7 M  | Trichlorofluoromethane      | 2.775 | 2.730 | 1.6   | 111   | 0.00     |
| 8 T  | Diethyl Ether               | 0.972 | 0.890 | 8.4   | 104   | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 1.846 | 1.822 | 1.3   | 114   | 0.00     |
| 10 M | 1,1-Dichloroethene          | 1.791 | 1.707 | 4.7   | 112   | 0.00     |
| 11   | Methyl Iodide               | 2.442 | 1.901 | 22.2  | 91    | 0.00     |
| 12   | Methyl Acetate              | 2.257 | 1.748 | 22.6  | 68    | 0.00     |
| 13 M | Acrolein                    | 0.221 | 0.231 | -4.5  | 135   | 0.00     |
| 14 M | Acrylonitrile               | 0.928 | 0.872 | 6.0   | 108   | 0.00     |
| 15 M | Acetone                     | 0.212 | 0.242 | -14.2 | 132   | 0.00     |
| 16 M | Carbon Disulfide            | 4.969 | 4.886 | 1.7   | 114   | 0.00     |
| 17   | Allyl chloride              | 3.249 | 3.053 | 6.0   | 109   | 0.00     |
| 18 M | Methylene Chloride          | 1.976 | 1.926 | 2.5   | 112   | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 1.856 | 1.844 | 0.6   | 116   | 0.00     |
| 20 T | Diisopropyl ether           | 6.147 | 6.034 | 1.8   | 112   | 0.00     |
| 21 M | 1,1-Dichloroethane          | 3.522 | 3.447 | 2.1   | 113   | -0.01    |
| 22 M | cis-1,2-Dichloroethene      | 2.164 | 2.119 | 2.1   | 112   | 0.00     |
| 23 M | tert-Butyl Alcohol          | 0.187 | 0.187 | 0.0   | 122   | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 5.471 | 5.362 | 2.0   | 113   | 0.00     |
| 25 M | Chloroform                  | 3.625 | 3.737 | -3.1  | 118   | 0.00     |
| 26   | Cyclohexane                 | 3.214 | 3.224 | -0.3  | 115   | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 2.428 | 2.437 | -0.4  | 121   | -0.01    |
| 28 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 123   | 0.00     |
| 29   | 1,1-Dichloropropene         | 0.472 | 0.479 | -1.5  | 114   | 0.00     |
| 30 M | 2-Butanone                  | 0.210 | 0.191 | 9.0   | 105   | 0.00     |
| 31   | 2,2-Dichloropropane         | 0.419 | 0.480 | -14.6 | 135   | -0.01    |
| 32 M | 1,1,1-Trichloroethane       | 0.583 | 0.602 | -3.3  | 118   | 0.00     |
| 33 M | Carbon Tetrachloride        | 0.518 | 0.535 | -3.3  | 118   | 0.00     |
| 34 M | Benzene                     | 1.387 | 1.401 | -1.0  | 115   | 0.00     |
| 35   | Methacrylonitrile           | 0.258 | 0.244 | 5.4   | 113   | -0.01    |
| 36 M | 1,2-Dichloroethane          | 0.525 | 0.538 | -2.5  | 114   | 0.00     |
| 37 M | Trichloroethene             | 0.348 | 0.346 | 0.6   | 116   | 0.00     |
| 38   | Methylcyclohexane           | 0.599 | 0.608 | -1.5  | 119   | 0.00     |
| 39 M | 1,2-Dichloropropane         | 0.346 | 0.349 | -0.9  | 116   | 0.00     |
| 40   | Dibromomethane              | 0.259 | 0.256 | 1.2   | 114   | -0.01    |
| 41 M | Bromodichloromethane        | 0.527 | 0.541 | -2.7  | 116   | 0.00     |
| 42 M | Vinyl Acetate               | 0.908 | 0.879 | 3.2   | 125   | 0.00     |
| 43   | Ethyl Acetate               | 0.446 | 0.369 | 17.3  | 96    | 0.00     |
| 44   | Isopropyl Acetate           | 0.697 | 0.714 | -2.4  | 123   | 0.00     |
| 45 T | 1,4-Dioxane                 | 0.004 | 0.005 | -25.0 | 127   | 0.00     |
| 46   | Methyl methacrylate         | 0.380 | 0.371 | 2.4   | 112   | 0.00     |
| 47   | n-amyl Acetate              | 0.623 | 0.623 | 0.0   | 136   | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 0.472 | 0.474 | -0.4  | 123   | 0.00     |

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 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: Jun 13 22:59:53 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X061025W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Jun 11 06:20:28 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     | 0.527 | 0.542 | -2.8 | 122   | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 0.326 | 0.334 | -2.5 | 117   | 0.00     |
| 51   | Ethyl methacrylate          | 0.496 | 0.481 | 3.0  | 115   | 0.00     |
| 52   | 1,3-Dichloropropane         | 0.568 | 0.568 | 0.0  | 112   | 0.00     |
| 53 M | Dibromochloromethane        | 0.384 | 0.389 | -1.3 | 118   | 0.00     |
| 54 M | 1,2-Dibromoethane           | 0.343 | 0.337 | 1.7  | 115   | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 0.259 | 0.264 | -1.9 | 114   | 0.00     |
| 56 M | Bromoform                   | 0.237 | 0.245 | -3.4 | 121   | 0.00     |
| 57 I | Chlorobenzene-d5            | 1.000 | 1.000 | 0.0  | 119   | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 0.488 | 0.494 | -1.2 | 113   | 0.00     |
| 59 M | 2-Hexanone                  | 0.344 | 0.335 | 2.6  | 109   | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 0.506 | 0.513 | -1.4 | 121   | 0.00     |
| 61 M | Tetrachloroethene           | 0.314 | 0.322 | -2.5 | 116   | 0.00     |
| 62 M | Toluene                     | 1.626 | 1.666 | -2.5 | 114   | 0.00     |
| 63 S | Toluene-d8                  | 1.340 | 1.367 | -2.0 | 121   | 0.00     |
| 64 M | Chlorobenzene               | 1.049 | 1.061 | -1.1 | 115   | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 0.351 | 0.355 | -1.1 | 114   | 0.00     |
| 66 M | Ethyl Benzene               | 1.856 | 1.881 | -1.3 | 114   | 0.00     |
| 67 M | m/p-Xylenes                 | 0.687 | 0.711 | -3.5 | 116   | 0.00     |
| 68 M | o-Xylene                    | 0.661 | 0.660 | 0.2  | 112   | 0.00     |
| 69 M | Styrene                     | 1.133 | 1.159 | -2.3 | 113   | 0.00     |
| 70   | Isopropylbenzene            | 1.774 | 1.790 | -0.9 | 114   | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 0.521 | 0.525 | -0.8 | 111   | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 0.435 | 0.437 | -0.5 | 112   | 0.00     |
| 73   | Bromobenzene                | 0.416 | 0.421 | -1.2 | 116   | 0.00     |
| 74   | n-propylbenzene             | 2.122 | 2.201 | -3.7 | 116   | 0.00     |
| 75   | 2-Chlorotoluene             | 1.270 | 1.308 | -3.0 | 115   | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 1.474 | 1.522 | -3.3 | 115   | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 0.147 | 0.150 | -2.0 | 123   | 0.00     |
| 78   | 4-Chlorotoluene             | 1.469 | 1.513 | -3.0 | 113   | 0.00     |
| 79   | tert-butylbenzene           | 1.470 | 1.512 | -2.9 | 115   | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 1.456 | 1.493 | -2.5 | 114   | 0.00     |
| 81   | sec-Butylbenzene            | 1.881 | 1.928 | -2.5 | 115   | 0.00     |
| 82   | p-Isopropyltoluene          | 1.544 | 1.619 | -4.9 | 116   | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 0.774 | 0.804 | -3.9 | 116   | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 0.779 | 0.788 | -1.2 | 112   | 0.00     |
| 85   | n-Butylbenzene              | 1.488 | 1.566 | -5.2 | 117   | 0.00     |
| 86 T | Hexachloroethane            | 0.268 | 0.274 | -2.2 | 117   | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 0.745 | 0.770 | -3.4 | 115   | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 0.108 | 0.106 | 1.9  | 113   | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 0.491 | 0.496 | -1.0 | 115   | 0.00     |
| 90   | Hexachlorobutadiene         | 0.216 | 0.210 | 2.8  | 110   | 0.00     |
| 91 M | Naphthalene                 | 1.558 | 1.520 | 2.4  | 112   | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 0.482 | 0.503 | -4.4 | 118   | 0.00     |

(#) = Out of Range

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