

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031925\  
 Data File : VX045340.D  
 Acq On : 19 Mar 2025 10:41  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: Mar 20 01:30:50 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 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                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|------|-----------------------------|---------|---------|--------|-------|----------|
| 1 I  | Bromochloromethane          | 30.000  | 30.000  | 0.0    | 89    | 0.01     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 20.814  | -4.1   | 95    | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 17.945  | 10.3   | 81    | 0.01     |
| 4 M  | Vinyl Chloride              | 20.000  | 17.406  | 13.0   | 80    | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 22.166  | -10.8  | 103   | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 16.944  | 15.3   | 72    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 18.787  | 6.1    | 89    | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 17.046  | 14.8   | 79    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 21.178  | -5.9   | 100   | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 20.176  | -0.9   | 96    | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 20.954  | -4.8   | 111   | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 33.340  | -66.7# | 159   | 0.00     |
| 13 M | Acrolein                    | 100.000 | 118.988 | -19.0  | 119   | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 113.456 | -13.5  | 105   | 0.00     |
| 15 M | Acetone                     | 100.000 | 111.373 | -11.4  | 100   | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 16.170  | 19.1   | 78    | 0.00     |
| 17   | Allyl chloride              | 20.000  | 19.594  | 2.0    | 94    | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 20.130  | -0.6   | 93    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 19.124  | 4.4    | 90    | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 19.995  | 0.0    | 94    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 20.273  | -1.4   | 95    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 20.180  | -0.9   | 94    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 94.701  | 5.3    | 90    | 0.00     |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 20.334  | -1.7   | 96    | 0.00     |
| 25 M | Chloroform                  | 20.000  | 21.483  | -7.4   | 99    | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 19.086  | 4.6    | 89    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 32.812  | -9.4   | 99    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0    | 85    | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 20.610  | -3.0   | 90    | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 124.364 | -24.4  | 109   | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 19.147  | 4.3    | 87    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 21.744  | -8.7   | 96    | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 21.335  | -6.7   | 94    | 0.00     |
| 34 M | Benzene                     | 20.000  | 21.181  | -5.9   | 92    | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 24.103  | -20.5  | 106   | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 23.413  | -17.1  | 102   | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 20.936  | -4.7   | 91    | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 19.959  | 0.2    | 90    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 20.823  | -4.1   | 90    | 0.00     |
| 40   | Dibromomethane              | 20.000  | 22.434  | -12.2  | 98    | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 22.261  | -11.3  | 98    | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 101.532 | -1.5   | 90    | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 23.957  | -19.8  | 106   | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 22.048  | -10.2  | 101   | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 394.071 | 1.5    | 83    | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 23.923  | -19.6  | 108   | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 20.723  | -3.6   | 94    | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 19.050  | 4.7    | 91    | 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: Mar 20 01:30:50 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X022125W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Sat Feb 22 01:06:36 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                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|---------|---------|-------|-------|----------|
| 49 T | cis-1,3-Dichloropropene     | 20.000  | 20.120  | -0.6  | 91    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 22.055  | -10.3 | 94    | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 21.334  | -6.7  | 99    | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 22.567  | -12.8 | 97    | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 21.709  | -8.5  | 95    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 21.988  | -9.9  | 96    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 103.422 | -3.4  | 91    | 0.00     |
| 56 M | Bromoform                   | 20.000  | 21.196  | -6.0  | 98    | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000  | 0.0   | 88    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 121.880 | -21.9 | 108   | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 123.186 | -23.2 | 110   | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 31.246  | -4.2  | 92    | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 21.744  | -8.7  | 96    | 0.00     |
| 62 M | Toluene                     | 20.000  | 20.767  | -3.8  | 93    | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 30.103  | -0.3  | 88    | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 20.784  | -3.9  | 93    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 21.083  | -5.4  | 96    | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 20.813  | -4.1  | 95    | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 42.144  | -5.4  | 92    | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 20.390  | -2.0  | 90    | 0.00     |
| 69 M | Styrene                     | 20.000  | 20.993  | -5.0  | 93    | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 21.669  | -8.3  | 96    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 23.012  | -15.1 | 103   | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 23.216  | -16.1 | 105   | 0.00     |
| 73   | Bromobenzene                | 20.000  | 20.665  | -3.3  | 92    | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 20.998  | -5.0  | 95    | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 21.614  | -8.1  | 96    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 21.335  | -6.7  | 94    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 19.262  | 3.7   | 99    | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 21.317  | -6.6  | 96    | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 21.075  | -5.4  | 93    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 21.253  | -6.3  | 93    | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 21.671  | -8.4  | 97    | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 21.265  | -6.3  | 95    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 20.274  | -1.4  | 90    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 20.863  | -4.3  | 93    | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 20.241  | -1.2  | 93    | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 20.077  | -0.4  | 96    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 20.821  | -4.1  | 91    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 22.936  | -14.7 | 109   | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 19.206  | 4.0   | 90    | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 20.427  | -2.1  | 92    | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 20.053  | -0.3  | 92    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 19.663  | 1.7   | 89    | 0.00     |

(#) = Out of Range

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