

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\WX031924\  
 Data File : VX040715.D  
 Acq On : 19 Mar 2024 15:13  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: Mar 20 04:34:06 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X030524W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Mar 05 13:21:29 2024  
 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    | 83    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 12.454  | 37.7#  | 58    | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 18.306  | 8.5    | 83    | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 16.500  | 17.5   | 77    | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 21.302  | -6.5   | 83    | 0.02     |
| 6 M  | Chloroethane                | 20.000  | 22.078  | -10.4  | 111   | 0.02     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 13.438  | 32.8#  | 66    | 0.02     |
| 8 T  | Diethyl Ether               | 20.000  | 19.547  | 2.3    | 96    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 12.082  | 39.6#  | 56    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 13.259  | 33.7#  | 63    | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 15.186  | 24.1   | 74    | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 22.577  | -12.9  | 106   | 0.00     |
| 13 M | Acrolein                    | 100.000 | 56.107  | 43.9#  | 54    | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 105.071 | -5.1   | 98    | 0.00     |
| 15 M | Acetone                     | 100.000 | 82.267  | 17.7   | 71    | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 12.125  | 39.4#  | 59    | 0.01     |
| 17   | Allyl chloride              | 20.000  | 17.052  | 14.7   | 80    | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 20.211  | -1.1   | 95    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 16.512  | 17.4   | 77    | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 20.486  | -2.4   | 96    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 18.691  | 6.5    | 87    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 18.438  | 7.8    | 85    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 101.231 | -1.2   | 98    | -0.05    |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 20.464  | -2.3   | 97    | 0.00     |
| 25 M | Chloroform                  | 20.000  | 19.475  | 2.6    | 92    | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 13.018  | 34.9#  | 63    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 30.852  | -2.8   | 92    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0    | 78    | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 17.205  | 14.0   | 73    | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 117.952 | -18.0  | 94    | -0.01    |
| 31   | 2,2-Dichloropropane         | 20.000  | 18.830  | 5.9    | 77    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 18.404  | 8.0    | 77    | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 17.650  | 11.8   | 75    | 0.00     |
| 34 M | Benzene                     | 20.000  | 20.382  | -1.9   | 83    | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 26.330  | -31.6# | 105   | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 23.550  | -17.8  | 95    | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 18.190  | 9.0    | 75    | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 15.476  | 22.6   | 63    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 22.984  | -14.9  | 92    | 0.00     |
| 40   | Dibromomethane              | 20.000  | 24.174  | -20.9  | 94    | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 23.538  | -17.7  | 95    | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 116.722 | -16.7  | 96    | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 23.422  | -17.1  | 92    | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 22.949  | -14.7  | 95    | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 455.699 | -13.9  | 89    | -0.01    |
| 46   | Methyl methacrylate         | 20.000  | 23.901  | -19.5  | 95    | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 21.329  | -6.6   | 97    | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 21.719  | -8.6   | 93    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031924\  
 Data File : VX040715.D  
 Acq On : 19 Mar 2024 15:13  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: Mar 20 04:34:06 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X030524W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Tue Mar 05 13:21:29 2024  
 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  | 22.055  | -10.3 | 92    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 23.774  | -18.9 | 96    | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 22.847  | -14.2 | 93    | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 23.033  | -15.2 | 92    | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 22.450  | -12.2 | 92    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 22.893  | -14.5 | 93    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 120.236 | -20.2 | 93    | 0.00     |
| 56 M | Bromoform                   | 20.000  | 23.324  | -16.6 | 103   | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000  | 0.0   | 83    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 122.890 | -22.9 | 96    | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 116.056 | -16.1 | 93    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 30.105  | -0.4  | 84    | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 17.700  | 11.5  | 71    | 0.00     |
| 62 M | Toluene                     | 20.000  | 19.129  | 4.4   | 76    | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 29.474  | 1.8   | 73    | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 19.064  | 4.7   | 84    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 21.734  | -8.7  | 98    | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 17.770  | 11.2  | 80    | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 35.323  | 11.7  | 79    | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 18.452  | 7.7   | 81    | 0.00     |
| 69 M | Styrene                     | 20.000  | 18.802  | 6.0   | 82    | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 17.346  | 13.3  | 77    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 24.205  | -21.0 | 105   | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 23.884  | -19.4 | 111   | 0.00     |
| 73   | Bromobenzene                | 20.000  | 19.662  | 1.7   | 87    | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 16.671  | 16.6  | 75    | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 17.974  | 10.1  | 82    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 17.283  | 13.6  | 78    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 21.272  | -6.4  | 95    | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 17.903  | 10.5  | 85    | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 16.917  | 15.4  | 79    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 17.500  | 12.5  | 82    | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 15.805  | 21.0  | 74    | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 16.047  | 19.8  | 75    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 18.033  | 9.8   | 82    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 17.691  | 11.5  | 81    | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 15.267  | 23.7  | 71    | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 16.501  | 17.5  | 81    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 18.704  | 6.5   | 84    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 23.508  | -17.5 | 106   | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 17.186  | 14.1  | 78    | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 14.679  | 26.6# | 67    | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 19.453  | 2.7   | 89    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 17.593  | 12.0  | 80    | 0.00     |

(#) = Out of Range

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