

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\WX012523\  
 Data File : VX033879.D  
 Acq On : 25 Jan 2023 10:05  
 Operator : JC/MD  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: Jan 26 05:06:42 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X011823W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Jan 18 14:40:07 2023  
 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  | 22.590  | -13.0  | 95    | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 21.252  | -6.3   | 92    | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 21.488  | -7.4   | 92    | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 21.176  | -5.9   | 95    | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 21.631  | -8.2   | 89    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 22.102  | -10.5  | 94    | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 21.731  | -8.7   | 95    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 23.196  | -16.0  | 99    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 22.131  | -10.7  | 95    | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 20.129  | -0.6   | 89    | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 21.642  | -8.2   | 93    | 0.00     |
| 13 M | Acrolein                    | 100.000 | 136.074 | -36.1# | 134   | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 98.140  | 1.9    | 83    | 0.00     |
| 15 M | Acetone                     | 100.000 | 141.938 | -41.9# | 121   | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 22.517  | -12.6  | 101   | 0.00     |
| 17   | Allyl chloride              | 20.000  | 22.496  | -12.5  | 96    | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 21.982  | -9.9   | 94    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 21.506  | -7.5   | 92    | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 20.494  | -2.5   | 88    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 20.742  | -3.7   | 90    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 21.047  | -5.2   | 90    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 88.958  | 11.0   | 74    | -0.03    |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 20.704  | -3.5   | 91    | 0.00     |
| 25 M | Chloroform                  | 20.000  | 21.234  | -6.2   | 92    | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 21.280  | -6.4   | 91    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 28.806  | 4.0    | 85    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0    | 89    | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 20.807  | -4.0   | 92    | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 104.098 | -4.1   | 90    | -0.01    |
| 31   | 2,2-Dichloropropane         | 20.000  | 20.491  | -2.5   | 93    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 20.629  | -3.1   | 91    | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 21.099  | -5.5   | 93    | 0.00     |
| 34 M | Benzene                     | 20.000  | 20.858  | -4.3   | 89    | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 19.668  | 1.7    | 86    | -0.01    |
| 36 M | 1,2-Dichloroethane          | 20.000  | 20.105  | -0.5   | 89    | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 22.028  | -10.1  | 95    | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 22.396  | -12.0  | 99    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 21.188  | -5.9   | 96    | 0.00     |
| 40   | Dibromomethane              | 20.000  | 21.273  | -6.4   | 95    | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 21.493  | -7.5   | 96    | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 99.287  | 0.7    | 87    | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 19.043  | 4.8    | 86    | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 19.312  | 3.4    | 86    | -0.01    |
| 45 T | 1,4-Dioxane                 | 400.000 | 362.037 | 9.5    | 77    | 0.00     |
| 46   | Methyl methacrylate         | 20.000  | 19.322  | 3.4    | 85    | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 18.742  | 6.3    | 88    | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 20.234  | -1.2   | 99    | 0.00     |

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Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

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 QLast Update : Wed Jan 18 14:40:07 2023  
 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  | 20.440  | -2.2  | 94    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 21.185  | -5.9  | 99    | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 19.891  | 0.5   | 94    | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 20.642  | -3.2  | 97    | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 21.029  | -5.1  | 101   | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 20.769  | -3.8  | 98    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 94.718  | 5.3   | 86    | 0.00     |
| 56 M | Bromoform                   | 20.000  | 21.039  | -5.2  | 98    | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000  | 0.0   | 92    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 98.692  | 1.3   | 85    | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 103.091 | -3.1  | 89    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 29.638  | 1.2   | 89    | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 23.274  | -16.4 | 111   | 0.00     |
| 62 M | Toluene                     | 20.000  | 21.752  | -8.8  | 94    | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 30.352  | -1.2  | 91    | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 21.374  | -6.9  | 94    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 21.738  | -8.7  | 95    | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 21.227  | -6.1  | 93    | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 43.580  | -8.9  | 96    | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 21.457  | -7.3  | 95    | 0.00     |
| 69 M | Styrene                     | 20.000  | 21.355  | -6.8  | 94    | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 21.560  | -7.8  | 94    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 21.219  | -6.1  | 94    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 20.866  | -4.3  | 91    | 0.00     |
| 73   | Bromobenzene                | 20.000  | 21.483  | -7.4  | 93    | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 21.453  | -7.3  | 94    | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 21.339  | -6.7  | 93    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 21.755  | -8.8  | 93    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 20.691  | -3.5  | 97    | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 21.626  | -8.1  | 95    | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 21.837  | -9.2  | 95    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 21.587  | -7.9  | 94    | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 21.713  | -8.6  | 95    | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 21.773  | -8.9  | 94    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 21.805  | -9.0  | 96    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 21.783  | -8.9  | 97    | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 21.564  | -7.8  | 95    | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 22.120  | -10.6 | 101   | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 21.939  | -9.7  | 95    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 19.391  | 3.0   | 87    | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 21.845  | -9.2  | 97    | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 23.866  | -19.3 | 108   | 0.00     |
| 91 M | Naphthalene                 | 20.000  | 21.109  | -5.5  | 93    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene      | 20.000  | 22.556  | -12.8 | 99    | 0.00     |

(#) = Out of Range

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