

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX050719\  
 Data File : VX009388.D  
 Acq On : 07 May 2019 19:39  
 Operator : JC/SP  
 Sample : VSTDCCC020  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC020

Quant Time: May 08 02:26:21 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu May 02 06:46:57 2019  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|---------|---------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 30.000  | 30.000  | 0.0   | 89    | 0.00     |
| 2 M  | Dichlorodifluoromethane     | 20.000  | 17.779  | 11.1  | 80    | 0.00     |
| 3 M  | Chloromethane               | 20.000  | 16.999  | 15.0  | 77    | 0.00     |
| 4 M  | Vinyl Chloride              | 20.000  | 18.129  | 9.4   | 82    | 0.00     |
| 5 M  | Bromomethane                | 20.000  | 13.971  | 30.1# | 70    | 0.00     |
| 6 M  | Chloroethane                | 20.000  | 17.995  | 10.0  | 79    | 0.00     |
| 7 M  | Trichlorofluoromethane      | 20.000  | 19.147  | 4.3   | 87    | 0.00     |
| 8 T  | Diethyl Ether               | 20.000  | 19.498  | 2.5   | 89    | 0.00     |
| 9    | 1,1,2-Trichlorotrifluoroeth | 20.000  | 19.245  | 3.8   | 87    | 0.00     |
| 10 M | 1,1-Dichloroethene          | 20.000  | 19.470  | 2.7   | 88    | 0.00     |
| 11   | Methyl Iodide               | 20.000  | 9.910   | 50.4# | 48    | 0.00     |
| 12   | Methyl Acetate              | 20.000  | 20.670  | -3.4  | 96    | 0.00     |
| 13 M | Acrolein                    | 100.000 | 75.930  | 24.1  | 74    | 0.00     |
| 14 M | Acrylonitrile               | 100.000 | 105.811 | -5.8  | 97    | 0.00     |
| 15 M | Acetone                     | 100.000 | 101.649 | -1.6  | 90    | 0.00     |
| 16 M | Carbon Disulfide            | 20.000  | 18.041  | 9.8   | 82    | 0.00     |
| 17   | Allyl chloride              | 20.000  | 18.782  | 6.1   | 86    | 0.00     |
| 18 M | Methylene Chloride          | 20.000  | 19.716  | 1.4   | 90    | 0.00     |
| 19 M | trans-1,2-Dichloroethene    | 20.000  | 19.108  | 4.5   | 87    | 0.00     |
| 20 T | Diisopropyl ether           | 20.000  | 19.529  | 2.4   | 89    | 0.00     |
| 21 M | 1,1-Dichloroethane          | 20.000  | 19.445  | 2.8   | 89    | 0.00     |
| 22 M | cis-1,2-Dichloroethene      | 20.000  | 19.099  | 4.5   | 87    | 0.00     |
| 23 M | tert-Butyl Alcohol          | 100.000 | 110.376 | -10.4 | 105   | 0.01     |
| 24 M | Methyl tert-Butyl Ether     | 20.000  | 19.843  | 0.8   | 92    | 0.00     |
| 25 M | Chloroform                  | 20.000  | 19.745  | 1.3   | 90    | 0.00     |
| 26   | Cyclohexane                 | 20.000  | 18.341  | 8.3   | 83    | 0.00     |
| 27 s | 1,2-Dichloroethane-d4       | 30.000  | 30.264  | -0.9  | 91    | 0.00     |
| 28 I | 1,4-Difluorobenzene         | 30.000  | 30.000  | 0.0   | 90    | 0.00     |
| 29   | 1,1-Dichloropropene         | 20.000  | 18.492  | 7.5   | 84    | 0.00     |
| 30 M | 2-Butanone                  | 100.000 | 106.411 | -6.4  | 97    | 0.00     |
| 31   | 2,2-Dichloropropane         | 20.000  | 16.441  | 17.8  | 75    | 0.00     |
| 32 M | 1,1,1-Trichloroethane       | 20.000  | 19.704  | 1.5   | 92    | 0.00     |
| 33 M | Carbon Tetrachloride        | 20.000  | 19.263  | 3.7   | 89    | 0.00     |
| 34 M | Benzene                     | 20.000  | 19.409  | 3.0   | 88    | 0.00     |
| 35   | Methacrylonitrile           | 20.000  | 20.858  | -4.3  | 95    | 0.00     |
| 36 M | 1,2-Dichloroethane          | 20.000  | 20.050  | -0.3  | 91    | 0.00     |
| 37 M | Trichloroethene             | 20.000  | 19.029  | 4.9   | 88    | 0.00     |
| 38   | Methylcyclohexane           | 20.000  | 17.781  | 11.1  | 82    | 0.00     |
| 39 M | 1,2-Dichloropropane         | 20.000  | 19.412  | 2.9   | 89    | 0.00     |
| 40   | Dibromomethane              | 20.000  | 19.913  | 0.4   | 91    | 0.00     |
| 41 M | Bromodichloromethane        | 20.000  | 19.721  | 1.4   | 92    | 0.00     |
| 42 M | Vinyl Acetate               | 100.000 | 99.943  | 0.1   | 90    | 0.00     |
| 43   | Ethyl Acetate               | 20.000  | 21.395  | -7.0  | 95    | 0.00     |
| 44   | Isopropyl Acetate           | 20.000  | 20.186  | -0.9  | 94    | 0.00     |
| 45 T | 1,4-Dioxane                 | 400.000 | 436.715 | -9.2  | 101   | 0.00     |

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu May 02 06:46:57 2019  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount  | Calc.   | %Dev | Area% | Dev(min) |
|------|-----------------------------|---------|---------|------|-------|----------|
| 46   | Methyl methacrylate         | 20.000  | 20.334  | -1.7 | 94    | 0.00     |
| 47   | n-amyl Acetate              | 20.000  | 19.603  | 2.0  | 92    | 0.00     |
| 48 M | t-1,3-Dichloropropene       | 20.000  | 19.078  | 4.6  | 91    | 0.00     |
| 49 T | cis-1,3-Dichloropropene     | 20.000  | 19.028  | 4.9  | 89    | 0.00     |
| 50 M | 1,1,2-Trichloroethane       | 20.000  | 20.536  | -2.7 | 94    | 0.00     |
| 51   | Ethyl methacrylate          | 20.000  | 19.724  | 1.4  | 91    | 0.00     |
| 52   | 1,3-Dichloropropane         | 20.000  | 20.105  | -0.5 | 91    | 0.00     |
| 53 M | Dibromochloromethane        | 20.000  | 19.797  | 1.0  | 93    | 0.00     |
| 54 M | 1,2-Dibromoethane           | 20.000  | 20.128  | -0.6 | 93    | 0.00     |
| 55 M | 2-Chloroethyl vinyl ether   | 100.000 | 98.275  | 1.7  | 86    | 0.00     |
| 56 M | Bromoform                   | 20.000  | 19.474  | 2.6  | 95    | 0.00     |
| 57 I | Chlorobenzene-d5            | 30.000  | 30.000  | 0.0  | 92    | 0.00     |
| 58 M | 4-Methyl-2-Pentanone        | 100.000 | 104.964 | -5.0 | 97    | 0.00     |
| 59 M | 2-Hexanone                  | 100.000 | 104.746 | -4.7 | 97    | 0.00     |
| 60 S | 4-Bromofluorobenzene        | 30.000  | 29.695  | 1.0  | 90    | 0.00     |
| 61 M | Tetrachloroethene           | 20.000  | 18.877  | 5.6  | 87    | 0.00     |
| 62 M | Toluene                     | 20.000  | 19.456  | 2.7  | 89    | 0.00     |
| 63 S | Toluene-d8                  | 30.000  | 29.762  | 0.8  | 90    | 0.00     |
| 64 M | Chlorobenzene               | 20.000  | 19.292  | 3.5  | 90    | 0.00     |
| 65   | 1,1,1,2-Tetrachloroethane   | 20.000  | 19.737  | 1.3  | 93    | 0.00     |
| 66 M | Ethyl Benzene               | 20.000  | 19.106  | 4.5  | 89    | 0.00     |
| 67 M | m/p-Xylenes                 | 40.000  | 37.691  | 5.8  | 88    | 0.00     |
| 68 M | o-Xylene                    | 20.000  | 19.412  | 2.9  | 91    | 0.00     |
| 69 M | Styrene                     | 20.000  | 19.346  | 3.3  | 91    | 0.00     |
| 70   | Isopropylbenzene            | 20.000  | 19.312  | 3.4  | 90    | 0.00     |
| 71 M | 1,1,2,2-Tetrachloroethane   | 20.000  | 20.498  | -2.5 | 97    | 0.00     |
| 72   | 1,2,3-Trichloropropane      | 20.000  | 20.304  | -1.5 | 94    | 0.00     |
| 73   | Bromobenzene                | 20.000  | 19.366  | 3.2  | 90    | 0.00     |
| 74   | n-propylbenzene             | 20.000  | 18.759  | 6.2  | 88    | 0.00     |
| 75   | 2-Chlorotoluene             | 20.000  | 19.132  | 4.3  | 89    | 0.00     |
| 76   | 1,3,5-Trimethylbenzene      | 20.000  | 19.052  | 4.7  | 89    | 0.00     |
| 77   | t-1,4-Dichloro-2-butene     | 20.000  | 17.433  | 12.8 | 88    | 0.00     |
| 78   | 4-Chlorotoluene             | 20.000  | 18.741  | 6.3  | 89    | 0.00     |
| 79   | tert-butylbenzene           | 20.000  | 18.890  | 5.5  | 88    | 0.00     |
| 80   | 1,2,4-Trimethylbenzene      | 20.000  | 18.742  | 6.3  | 88    | 0.00     |
| 81   | sec-Butylbenzene            | 20.000  | 18.947  | 5.3  | 89    | 0.00     |
| 82   | p-Isopropyltoluene          | 20.000  | 18.605  | 7.0  | 88    | 0.00     |
| 83 M | 1,3-Dichlorobenzene         | 20.000  | 18.880  | 5.6  | 91    | 0.00     |
| 84 M | 1,4-Dichlorobenzene         | 20.000  | 18.775  | 6.1  | 91    | 0.00     |
| 85   | n-Butylbenzene              | 20.000  | 17.664  | 11.7 | 86    | 0.00     |
| 86 T | Hexachloroethane            | 20.000  | 18.408  | 8.0  | 87    | 0.00     |
| 87 M | 1,2-Dichlorobenzene         | 20.000  | 19.416  | 2.9  | 92    | 0.00     |
| 88   | 1,2-Dibromo-3-Chloropropane | 20.000  | 20.960  | -4.8 | 100   | 0.00     |
| 89   | 1,2,4-Trichlorobenzene      | 20.000  | 18.822  | 5.9  | 93    | 0.00     |
| 90   | Hexachlorobutadiene         | 20.000  | 18.633  | 6.8  | 90    | 0.00     |

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Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound               | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|------------------------|--------|--------|------|-------|----------|
| 91 M | Naphthalene            | 20.000 | 20.348 | -1.7 | 96    | 0.00     |
| 92   | 1,2,3-Trichlorobenzene | 20.000 | 19.430 | 2.9  | 92    | 0.00     |

(#) = Out of Range

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