

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX060319\  
 Data File : VX010025.D  
 Acq On : 03 Jun 2019 10:28  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 04 03:59:45 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052819W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 29 04:00:56 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|-------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0   | 96    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 55.471  | -10.9 | 96    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 42.861  | 14.3  | 85    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.321  | 9.4#  | 87    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 42.123  | 15.8  | 88    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 44.120  | 11.8  | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.774  | 2.5   | 93    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 43.991  | 12.0  | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.242  | -0.5  | 98    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 41.259  | 17.5  | 79    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 219.569 | 12.2  | 90    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.334  | 3.3#  | 95    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 241.201 | 3.5   | 96    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.562  | 2.9   | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 225.431 | 9.8   | 92    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 248.681 | 0.5   | 100   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.578  | 4.8   | 93    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 46.556  | 6.9   | 99    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.804  | 2.4   | 98    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 46.726  | 6.5   | 96    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.223  | 5.6   | 98    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.152  | 3.7   | 95    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 239.903 | 4.0   | 94    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.146  | 3.7   | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 234.487 | 6.2   | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 50.798  | -1.6  | 100   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.048  | 5.9   | 98    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 46.713  | 6.6   | 98    | -0.01    |
| 29 T  | Tetrahydrofuran             | 250.000 | 226.451 | 9.4   | 91    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.762  | 2.5#  | 98    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.457  | -0.9  | 94    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.982  | -2.0  | 98    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 45.726  | 8.5   | 95    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 92    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.062  | -0.1  | 96    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.439  | -2.9  | 99    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.521  | 1.0   | 91    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 54.400  | -8.8  | 99    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 55.840  | -11.7 | 100   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.881  | -3.8  | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.553  | 2.9   | 93    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.465  | -0.9  | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 49.682  | 0.6   | 94    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.207  | -4.4  | 100   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.217  | -2.4# | 97    | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|---------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 50.044  | -0.1  | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 54.506  | -9.0  | 101   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 51.029  | -2.1  | 94    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 973.144 | 2.7   | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.285  | -0.6  | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 252.408 | -1.0  | 93    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.186  | -6.4# | 99    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.842  | -7.7  | 98    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.658  | -7.3  | 98    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.016  | -4.0  | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.782  | -9.6  | 97    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.133  | -2.3  | 97    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 256.141 | -2.5  | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 261.064 | -4.4  | 94    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.858  | -11.7 | 101   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.361  | -4.7  | 99    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.372  | -4.7  | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 54.483  | -9.0  | 102   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.289  | -4.6  | 100   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.383  | -8.8  | 100   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 54.472  | -8.9# | 101   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 109.381 | -9.4  | 101   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 55.016  | -10.0 | 101   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.962  | -9.9  | 100   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 58.410  | -16.8 | 105   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 96    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.384  | -4.8  | 101   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 50.495  | -1.0  | 95    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.090  | 1.8   | 98    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.952  | 0.1   | 98    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.745  | -3.5  | 105   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.838  | -7.7  | 102   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.957  | -1.9  | 100   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.152  | -6.3  | 102   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 51.917  | -3.8  | 99    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.601  | -3.2  | 101   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.802  | -7.6  | 103   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.750  | -5.5  | 101   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.645  | -9.3  | 103   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 55.999  | -12.0 | 104   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 52.870  | -5.7  | 106   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.588  | -3.2  | 105   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 56.202  | -12.4 | 105   | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 56.270 | -12.5 | 106   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 52.137 | -4.3  | 103   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.217 | 5.6   | 95    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 54.800 | -9.6  | 108   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 55.988 | -12.0 | 109   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 52.549 | -5.1  | 102   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.823 | -5.6  | 105   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 6