

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX100919\  
 Data File : VX012957.D  
 Acq On : 09 Oct 2019 21:11  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 10 06:57:00 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X100819W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 09 01:51:23 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   | 90    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 51.697  | -3.4  | 86    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 52.181  | -4.4  | 91    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.330  | -2.7# | 90    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.430  | 7.1   | 89    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.590  | -3.2  | 91    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 52.843  | -5.7  | 91    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 51.552  | -3.1  | 90    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 51.867  | -3.7  | 90    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 48.374  | 3.3   | 89    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 248.180 | 0.7   | 91    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.526  | -3.1# | 89    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 235.117 | 6.0   | 83    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 51.510  | -3.0  | 88    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 265.524 | -6.2  | 90    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 220.404 | 11.8  | 76    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.151  | 3.7   | 87    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 51.647  | -3.3  | 92    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.519  | -7.0  | 91    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 49.220  | 1.6   | 90    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.876  | -1.8  | 89    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.542  | -7.1  | 91    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 269.420 | -7.8  | 89    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.771  | -5.5  | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 250.899 | -0.4  | 85    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.756  | 2.5   | 83    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.862  | -3.7  | 90    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 54.791  | -9.6  | 91    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 262.754 | -5.1  | 88    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 51.776  | -3.6# | 91    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.901  | -1.8  | 89    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 54.120  | -8.2  | 91    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 52.172  | -4.3  | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 91    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.667  | -3.3  | 91    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.943  | -3.9  | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.680  | -3.4  | 88    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.489  | -5.0  | 88    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.561  | -5.1  | 88    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.960  | -5.9  | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.790  | -5.6  | 92    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.938  | -5.9  | 90    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 52.821  | -5.6  | 89    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.021  | 2.0   | 88    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.116  | -6.2# | 91    | 0.00     |

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 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) |
|-------|-----------------------------|----------|---------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 53.062  | -6.1  | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 54.533  | -9.1  | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 53.440  | -6.9  | 90    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 992.910 | 0.7   | 90    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.080  | -2.2  | 91    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 265.246 | -6.1  | 90    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.645  | -5.3# | 92    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 46.933  | 6.1   | 86    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.057  | -6.1  | 88    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.015  | -6.0  | 92    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 48.675  | 2.7   | 89    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.901  | -5.8  | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 264.802 | -5.9  | 88    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 263.347 | -5.3  | 88    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 48.190  | 3.6   | 87    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.585  | -5.2  | 91    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.190  | -2.4  | 91    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 92    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.996  | -4.0  | 92    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.287  | -0.6  | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.641  | -5.3  | 88    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.931  | -3.9# | 89    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.405 | -5.4  | 91    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.968  | -3.9  | 90    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.051  | -6.1  | 90    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 45.024  | 10.0  | 85    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 90    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.240  | -6.5  | 91    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 54.651  | -9.3  | 90    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.832  | -5.7  | 93    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 54.384  | -8.8  | 105   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.048  | -4.1  | 90    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.572  | -7.1  | 92    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.134  | -6.3  | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 55.147  | -10.3 | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 46.723  | 6.6   | 86    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.671  | -7.3  | 91    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.054  | -6.1  | 89    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.127  | -8.3  | 90    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.469  | -8.9  | 90    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.464  | -6.9  | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.358  | -2.7  | 89    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.097  | -2.2  | 91    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.936  | -7.9  | 89    | 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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 48.927 | 2.1  | 89    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 52.050 | -4.1 | 90    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 53.468 | -6.9 | 86    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 53.175 | -6.3 | 89    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 51.059 | -2.1 | 89    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 54.028 | -8.1 | 88    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.762 | -3.5 | 89    | 0.00     |

(#) = Out of Range

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