

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX082219\  
 Data File : VX011783.D  
 Acq On : 22 Aug 2019 23:34  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 23 03:54:31 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082219W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 23 01:48:12 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   | 98    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 48.829  | 2.3   | 86    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 50.973  | -1.9  | 97    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 49.844  | 0.3#  | 99    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 43.787  | 12.4  | 89    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.265  | 3.5   | 86    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.408  | 1.2   | 95    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.967  | 0.1   | 101   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 46.672  | 6.7   | 90    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 56.053  | -12.1 | 100   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 236.508 | 5.4   | 90    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.752  | 4.5#  | 95    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 226.716 | 9.3   | 99    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.629  | 2.7   | 89    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 253.034 | -1.2  | 94    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 224.867 | 10.1  | 86    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.578  | 4.8   | 91    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 53.089  | -6.2  | 96    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.130  | 1.7   | 93    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 46.867  | 6.3   | 92    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.879  | 4.2   | 91    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.927  | -1.9  | 97    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 249.582 | 0.2   | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.023  | 2.0   | 93    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 249.321 | 0.3   | 96    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 36.405  | 27.2# | 70    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.273  | 3.5   | 95    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 52.065  | -4.1  | 98    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 259.763 | -3.9  | 96    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.217  | 3.6#  | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.600  | 0.8   | 92    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.513  | 1.0   | 91    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.530  | 6.9   | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.854  | 2.3   | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.942  | 0.1   | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 52.298  | -4.6  | 96    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.407  | 3.2   | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.705  | 4.6   | 88    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.808  | 2.4   | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.883  | 2.2   | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 44.817  | 10.4  | 87    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.467  | 3.1   | 92    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 47.573  | 4.9   | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.430  | 1.1#  | 95    | 0.00     |

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Instrument :  
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 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Fri Aug 23 01:48:12 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) |
|-------|-----------------------------|----------|---------|------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 48.276  | 3.4  | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 48.401  | 3.2  | 90    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.631  | -1.3 | 93    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 939.586 | 6.0  | 93    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.752  | -1.5 | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 248.509 | 0.6  | 94    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.619  | 0.8# | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 48.390  | 3.2  | 88    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.821  | 0.4  | 91    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.039  | 1.9  | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.015  | -4.0 | 93    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 47.507  | 5.0  | 97    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 266.961 | -6.8 | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 246.351 | 1.5  | 91    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.461  | -0.9 | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.846  | -1.7 | 96    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 47.971  | 4.1  | 94    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0  | 103   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.035  | -0.1 | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.024  | 2.0  | 101   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.827  | -1.7 | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.255  | 1.5# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 100.768 | -0.8 | 95    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.231  | -0.5 | 97    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.503  | -3.0 | 98    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.098  | -2.2 | 97    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0  | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.031  | 1.9  | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 49.488  | 1.0  | 94    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 48.082  | 3.8  | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 46.788  | 6.4  | 92    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.987  | 2.0  | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.588  | 0.8  | 92    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.883  | 4.2  | 92    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.949  | 0.1  | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 46.249  | 7.5  | 84    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 48.162  | 3.7  | 92    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 50.866  | -1.7 | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.694  | 0.6  | 93    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.722  | -1.4 | 97    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.091  | -0.2 | 93    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.392  | 1.2  | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.635  | 2.7  | 95    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 48.082  | 3.8  | 89    | 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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 49.858 | 0.3  | 92    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.149 | 1.7  | 96    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.349 | 3.3  | 93    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.508 | -1.0 | 95    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 48.961 | 2.1  | 101   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 54.033 | -8.1 | 100   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.195 | -2.4 | 96    | 0.00     |

(#) = Out of Range

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