

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU090919\  
 Data File : VU034433.D  
 Acq On : 09 Sep 2019 15:09  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 10 06:50:37 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U090619W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 06 05:10:13 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   | 84    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.035  | 7.9   | 84    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.281  | 5.4   | 80    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.340  | 7.3#  | 86    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 54.935  | -9.9  | 91    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.048  | -2.1  | 85    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.280  | 1.4   | 90    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.056  | -0.1  | 90    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.881  | 2.2   | 90    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 43.793  | 12.4  | 76    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 262.849 | -5.1  | 91    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.820  | 2.4#  | 88    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 198.444 | 20.6# | 70    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.579  | 4.8   | 86    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 260.216 | -4.1  | 87    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 229.131 | 8.3   | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 42.378  | 15.2  | 79    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 47.981  | 4.0   | 88    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.294  | -4.6  | 90    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 53.484  | -7.0  | 90    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.107  | 1.8   | 89    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.028  | -4.1  | 88    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 262.491 | -5.0  | 87    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.316  | 1.4   | 89    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 260.763 | -4.3  | 86    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.604  | 0.8   | 89    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.542  | -3.1  | 92    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.044  | -0.1  | 82    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 263.752 | -5.5  | 86    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.399  | 1.2#  | 90    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.043  | 5.9   | 85    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.894  | -1.8  | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.125  | 1.8   | 83    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 85    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.506  | -1.0  | 87    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.415  | 1.2   | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.125  | -2.3  | 87    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.769  | 0.5   | 89    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.587  | 0.8   | 86    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.552  | -1.1  | 90    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 53.608  | -7.2  | 87    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.707  | 0.6   | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.369  | -2.7  | 88    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.544  | -1.1  | 91    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.554  | -1.1# | 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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 51.676   | -3.4  | 91    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.155   | -2.3  | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.479   | -1.0  | 85    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1109.622 | -11.0 | 94    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.938   | -1.9  | 83    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 257.973  | -3.2  | 87    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.703   | -3.4# | 89    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.343   | -4.7  | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.708   | -5.4  | 90    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.374   | -2.7  | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 48.157   | 3.7   | 88    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.958   | -1.9  | 90    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 253.143  | -1.3  | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 261.875  | -4.8  | 86    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.959   | -5.9  | 92    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.584   | -5.2  | 91    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.484   | -1.0  | 86    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 82    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.832   | 0.3   | 88    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.715   | -5.4  | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.505   | -5.0  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.655   | -7.3# | 89    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 112.602  | -12.6 | 90    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 55.637   | -11.3 | 90    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 58.162   | -16.3 | 92    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 55.045   | -10.1 | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 88    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.448   | -0.9  | 90    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 52.458   | -4.9  | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 48.088   | 3.8   | 91    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 47.673   | 4.7   | 91    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.052   | -0.1  | 93    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.407   | -2.8  | 91    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.120   | -0.2  | 91    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.881   | -7.8  | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 53.213   | -6.4  | 93    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.852   | -1.7  | 91    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.099   | -4.2  | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.300   | -8.6  | 93    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.942   | -5.9  | 92    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.344   | -8.7  | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.544   | -3.1  | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.328   | -0.7  | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.873   | -9.7  | 92    | 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 | 51.172 | -2.3  | 95    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 52.970 | -5.9  | 97    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 55.480 | -11.0 | 95    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.672 | -3.3  | 99    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.799 | 0.4   | 92    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 50.132 | -0.3  | 95    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 53.267 | -6.5  | 99    | 0.00     |

(#) = Out of Range

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