

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU010919\  
 Data File : VU029102.D  
 Acq On : 09 Jan 2019 20:16  
 Operator : MD/SY  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 10 05:50:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U010319W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 04 02:22:53 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   | 88    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.781  | 0.4   | 88    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.574  | 2.9   | 85    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 50.322  | -0.6# | 89    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 50.755  | -1.5  | 82    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 50.078  | -0.2  | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.532  | 2.9   | 86    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.755  | 4.5   | 83    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.612  | 2.8   | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 53.895  | -7.8  | 96    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 262.463 | -5.0  | 95    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.891  | 0.2#  | 96    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 238.229 | 4.7   | 86    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.795  | 6.4   | 79    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 274.885 | -10.0 | 94    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 213.706 | 14.5  | 78    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.212  | 5.6   | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 58.080  | -16.2 | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.092  | -0.2  | 88    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.975  | 2.0   | 89    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.604  | 4.8   | 85    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.731  | -7.5  | 93    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 273.006 | -9.2  | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.487  | -5.0  | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 268.864 | -7.5  | 91    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 46.484  | 7.0   | 81    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.597  | -1.2  | 88    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 53.351  | -6.7  | 91    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 282.871 | -13.1 | 97    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.753  | -5.5# | 92    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.362  | -0.7  | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.076  | -2.2  | 89    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 53.098  | -6.2  | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 87    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.818  | -1.6  | 90    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.027  | 3.9   | 88    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 54.919  | -9.8  | 96    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.717  | -1.4  | 88    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.349  | 5.3   | 85    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.771  | 0.5   | 88    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 55.759  | -11.5 | 95    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.848  | -5.7  | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.229  | -8.5  | 93    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 46.833  | 6.3   | 85    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.669  | -3.3# | 90    | 0.00     |

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 VSTDCCC050

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 Quant Title : SW846 8260  
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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   | 50.583   | -1.2  | 90    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.537   | -3.1  | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 56.981   | -14.0 | 94    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1081.394 | -8.1  | 93    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.770   | 0.5   | 88    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 278.303  | -11.3 | 96    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.212   | 1.6#  | 87    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 49.469   | 1.1   | 88    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.881   | -1.8  | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.755   | -1.5  | 90    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.981   | -4.0  | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.722   | -3.4  | 91    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 284.731  | -13.9 | 97    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 275.195  | -10.1 | 95    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.058   | -0.1  | 88    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.233   | -2.5  | 91    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.478   | 1.0   | 89    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 87    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.208   | 5.6   | 82    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.246   | 3.5   | 87    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.714   | -3.4  | 90    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.866   | 0.3#  | 86    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.331  | -1.3  | 88    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.254   | -2.5  | 88    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.120   | -2.2  | 87    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.598   | -3.2  | 87    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 88    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 48.099   | 3.8   | 87    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.059   | -6.1  | 93    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.519   | 1.0   | 91    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 50.889   | -1.8  | 91    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.234   | 5.5   | 86    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.752   | 0.5   | 88    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.106   | 3.8   | 88    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 49.565   | 0.9   | 89    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 45.213   | 9.6   | 88    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.585   | 4.8   | 87    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.814   | 2.4   | 89    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.837   | 0.3   | 87    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.582   | 0.8   | 88    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.927   | 0.1   | 88    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 46.445   | 7.1   | 86    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 45.849   | 8.3   | 88    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.852   | -3.7  | 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 | 49.914 | 0.2  | 92    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 46.444 | 7.1  | 85    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.688 | -5.4 | 90    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 47.701 | 4.6  | 85    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 50.003 | -0.0 | 93    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 48.199 | 3.6  | 86    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 48.202 | 3.6  | 87    | 0.00     |

(#) = Out of Range

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