

Data Path : Z:\voasrv\HPCHEM1\MSVOA U\Data\VU121318\  
 Data File : VU028635.D  
 Acq On : 12 Dec 2018 02:30  
 Operator : MD/SY  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 12 06:01:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U120618W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 07 00:39:42 2018  
 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    | 103   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 45.439  | 9.1    | 93    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 41.237  | 17.5   | 88    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.542  | 6.9#   | 96    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 47.422  | 5.2    | 105   | -0.01    |
| 6 T   | Chloroethane                | 50.000  | 45.637  | 8.7    | 92    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.953  | 6.1    | 99    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 45.900  | 8.2    | 98    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.782  | 4.4    | 101   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 63.924  | -27.8# | 129   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 243.975 | 2.4    | 101   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.451  | 5.1#   | 100   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 233.158 | 6.7    | 96    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 42.396  | 15.2   | 92    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 248.929 | 0.4    | 101   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 182.496 | 27.0#  | 80    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 43.856  | 12.3   | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 52.657  | -5.3   | 107   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.330  | 3.3    | 100   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 45.115  | 9.8    | 101   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.198  | 5.6    | 99    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 47.708  | 4.6    | 98    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 242.300 | 3.1    | 98    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 46.385  | 7.2    | 98    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 233.337 | 6.7    | 95    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 38.946  | 22.1#  | 83    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.890  | 2.2    | 102   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.927  | 2.1    | 100   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 250.329 | -0.1   | 101   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.734  | 2.5#   | 102   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.796  | 6.4    | 97    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.183  | 3.6    | 100   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.782  | 6.4    | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 102   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.083  | -0.2   | 104   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.917  | 6.2    | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.106  | -0.2   | 100   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.081  | 1.8    | 102   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.673  | 4.7    | 100   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.219  | 1.6    | 100   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 51.079  | -2.2   | 102   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 47.031  | 5.9    | 97    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.721  | -1.4   | 101   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.130  | -0.3   | 105   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.658  | -1.3#  | 100   | 0.00     |

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 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 12 06:01:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\82U120618W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 07 00:39:42 2018  
 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   | 49.852  | 0.3   | 101   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 48.947  | 2.1   | 101   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.367  | -4.7  | 103   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 943.718 | 5.6   | 95    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.496  | -1.0  | 105   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 256.514 | -2.6  | 103   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.015  | -0.0# | 101   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 48.624  | 2.8   | 98    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 48.420  | 3.2   | 98    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.050  | -2.1  | 101   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.039  | -8.1  | 106   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.982  | 0.0   | 103   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 273.395 | -9.4  | 110   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 250.771 | -0.3  | 102   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.680  | -1.4  | 105   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.369  | -4.7  | 104   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.881  | 0.2   | 106   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 102   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 51.575  | -3.2  | 108   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.553  | 0.9   | 103   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.190  | -8.4  | 108   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.199  | -0.4# | 103   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 100.104 | -0.1  | 100   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.929  | -1.9  | 103   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.170  | -2.3  | 104   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.521  | -7.0  | 106   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 103   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.194  | 1.6   | 103   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 50.877  | -1.8  | 105   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.348  | -2.7  | 106   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.374  | -4.7  | 106   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.178  | -0.4  | 104   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 48.236  | 3.5   | 100   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.318  | 1.4   | 102   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.176  | -0.4  | 103   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 44.858  | 10.3  | 101   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 47.736  | 4.5   | 101   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.705  | 0.6   | 103   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.687  | 0.6   | 103   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 49.274  | 1.5   | 102   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.255  | 1.5   | 102   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.520  | 5.0   | 101   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 46.628  | 6.7   | 101   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.695  | 4.6   | 98    | 0.00     |

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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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 48.908 | 2.2  | 101   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.714 | 2.6  | 104   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.785 | -5.6 | 106   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 47.786 | 4.4  | 101   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 45.837 | 8.3  | 99    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 49.846 | 0.3  | 105   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 50.442 | -0.9 | 104   | 0.00     |

(#) = Out of Range

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