

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX062718\  
 Data File : VX002952.D  
 Acq On : 27 Jun 2018 22:41  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 28 06:05:16 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062518W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 25 14:38:05 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    | 98    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 63.016  | -26.0# | 127   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 59.622  | -19.2  | 117   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 52.690  | -5.4#  | 115   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 63.583  | -27.2# | 131   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 55.987  | -12.0  | 108   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.637  | 0.7    | 102   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.586  | 2.8    | 101   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.453  | 3.1    | 103   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 53.031  | -6.1   | 119   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 236.379 | 5.4    | 96    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.939  | 2.1#   | 104   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 218.398 | 12.6   | 90    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.251  | 3.5    | 100   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 247.682 | 0.9    | 101   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 233.435 | 6.6    | 95    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 50.589  | -1.2   | 109   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 42.943  | 14.1   | 83    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 47.679  | 4.6    | 97    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.127  | 3.7    | 101   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.962  | 4.1    | 102   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.225  | 1.5    | 101   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 256.095 | -2.4   | 105   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.750  | 2.5    | 101   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 249.158 | 0.3    | 101   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 40.421  | 19.2   | 83    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.863  | 2.3    | 102   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 49.747  | 0.5    | 98    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 249.813 | 0.1    | 102   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.359  | 1.3#   | 101   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 51.104  | -2.2   | 105   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.206  | -0.4   | 101   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.907  | 2.2    | 100   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 98    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.659  | -1.3   | 101   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.414  | -0.8   | 103   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 52.034  | -4.1   | 105   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.320  | -0.6   | 101   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.069  | -2.1   | 103   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.213  | -2.4   | 103   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.494  | -1.0   | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.944  | 2.1    | 100   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 49.572  | 0.9    | 100   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.045  | -0.1   | 103   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.820  | 0.4#   | 104   | 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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 49.479   | 1.0   | 99    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.670   | -1.3  | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.589   | -1.2  | 98    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1002.244 | -0.2  | 99    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.056   | -0.1  | 99    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 259.260  | -3.7  | 101   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.468   | -2.9# | 102   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.218   | -2.4  | 97    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.476   | 1.0   | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.439   | -0.9  | 101   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.713   | -5.4  | 103   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.162   | -0.3  | 100   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 254.650  | -1.9  | 97    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 260.372  | -4.1  | 100   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.984   | -2.0  | 97    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.242   | -2.5  | 101   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.772   | -1.5  | 101   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 97    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.864   | 0.3   | 101   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.597   | 0.8   | 101   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.195   | -0.4  | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.081   | -2.2# | 100   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 103.849  | -3.8  | 101   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.633   | -3.3  | 101   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.446   | -6.9  | 102   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 44.602   | 10.8  | 96    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 97    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.698   | -3.4  | 101   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 48.507   | 3.0   | 100   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.378   | 1.2   | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 50.191   | -0.4  | 100   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.827   | 0.3   | 100   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.691   | -3.4  | 100   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.538   | -1.1  | 101   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.045   | -4.1  | 100   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 43.392   | 13.2  | 92    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.583   | -1.2  | 100   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.747   | -3.5  | 101   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.526   | -3.1  | 100   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.840   | -3.7  | 101   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.176   | -4.4  | 99    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.501   | 1.0   | 99    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.774   | 2.5   | 99    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.862   | -1.7  | 98    | 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 | 51.456 | -2.9 | 98    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.440 | 1.1  | 99    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.050 | -0.1 | 96    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 49.586 | 0.8  | 97    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.831 | 0.3  | 98    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 52.535 | -5.1 | 100   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 50.474 | -0.9 | 98    | 0.00     |

(#) = Out of Range

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