

Data Path : W:\HPCHEM1\MSVOA X\Data\VX033018\  
 Data File : VX000557.D  
 Acq On : 30 Mar 2018 13:16  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 31 04:54:09 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X032018W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 21 04:52:42 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     | 105   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 41.479  | 17.0    | 90    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 42.385  | 15.2    | 94    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 50.897  | -1.8#   | 109   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 71.256  | -42.5#  | 135   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 61.112  | -22.2#  | 117   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 52.545  | -5.1    | 113   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.276  | -0.6    | 109   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 52.329  | -4.7    | 116   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.665  | 8.7     | 94    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 248.979 | 0.4     | 103   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 52.932  | -5.9#   | 110   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 502.761 | -101.1# | 223   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 54.649  | -9.3    | 110   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 257.135 | -2.9    | 110   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 319.146 | -27.7#  | 136   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 53.818  | -7.6    | 111   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 49.747  | 0.5     | 105   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.004  | -4.0    | 110   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 50.464  | -0.9    | 111   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 53.377  | -6.8    | 117   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.912  | 2.2     | 112   | -0.01    |
| 23 T  | Vinyl Acetate               | 250.000 | 296.763 | -18.7   | 120   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.193  | -6.4    | 110   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 256.162 | -2.5    | 107   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 46.366  | 7.3     | 93    | -0.01    |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.748  | 4.5     | 101   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 52.031  | -4.1    | 99    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 242.546 | 3.0     | 99    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 51.305  | -2.6#   | 102   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.334  | -0.7    | 106   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.478  | -1.0    | 103   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.263  | 1.5     | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0     | 99    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.776  | -3.6    | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 53.236  | -6.5    | 110   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.083  | 1.8     | 98    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.704  | -3.4    | 103   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 54.243  | -8.5    | 111   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.521  | -7.0    | 107   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 47.537  | 4.9     | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.746  | -5.5    | 106   | -0.01    |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.959  | -3.9    | 102   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.912  | -5.8    | 111   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 54.034  | -8.1#   | 106   | 0.00     |

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 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

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 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X032018W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 21 04:52:42 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   | 52.722   | -5.4   | 107   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 55.165   | -10.3  | 105   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.256   | -4.5   | 102   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1101.103 | -10.1  | 110   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 53.153   | -6.3   | 107   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 273.607  | -9.4   | 109   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 57.031   | -14.1# | 117   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 55.564   | -11.1  | 108   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 57.810   | -15.6  | 111   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 55.162   | -10.3  | 111   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 56.020   | -12.0  | 111   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 55.239   | -10.5  | 112   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 238.524  | 4.6    | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 286.595  | -14.6  | 114   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.290   | -2.6   | 113   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 58.702   | -17.4  | 116   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.402   | -4.8   | 114   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 112   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.415   | -4.8   | 123   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.429   | -2.9   | 117   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.934   | -3.9   | 112   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.035   | -6.1#  | 118   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 112.575  | -12.6  | 125   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 54.923   | -9.8   | 121   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 57.745   | -15.5  | 123   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 45.261   | 9.5    | 114   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 129   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.945   | 4.1    | 123   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 43.771   | 12.5   | 102   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 46.256   | 7.5    | 118   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 44.844   | 10.3   | 115   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 44.578   | 10.8   | 122   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 48.894   | 2.2    | 128   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 47.798   | 4.4    | 126   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.677   | -3.4   | 129   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 46.281   | 7.4    | 112   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.698   | 0.6    | 128   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.991   | 2.0    | 126   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.181   | 1.6    | 124   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.832   | -1.7   | 129   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.222   | -6.4   | 132   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.809   | 0.4    | 131   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.157   | -0.3   | 134   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.486   | -7.0   | 136   | 0.00     |

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Quant Title : SW846 8260  
QLast Update : Wed Mar 21 04:52:42 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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 49.758 | 0.5  | 121   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.875 | -1.8 | 131   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 46.205 | 7.6  | 117   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 48.827 | 2.3  | 131   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.920 | 0.2  | 131   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 48.947 | 2.1  | 124   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 50.054 | -0.1 | 130   | 0.00     |

(#) = Out of Range

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