

Data Path : W:\HPCHEM1\MSVOA X\Data\VX052718\  
 Data File : VX002061.D  
 Acq On : 27 May 2018 11:34  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 29 03:14:26 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X052418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 24 13:09:03 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     | 76    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 42.317  | 15.4    | 63    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 58.679  | -17.4   | 93    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.324  | 7.4#    | 74    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 47.302  | 5.4     | 72    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.231  | -2.5    | 81    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.669  | 0.7     | 79    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 56.097  | -12.2   | 88    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.134  | -0.3    | 81    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 42.752  | 14.5    | 60    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 253.696 | -1.5    | 78    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.669  | 2.7#    | 79    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 171.177 | 31.5#   | 58    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 53.066  | -6.1    | 83    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 260.896 | -4.4    | 81    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 272.898 | -9.2    | 86    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.424  | 11.2    | 71    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 59.087  | -18.2   | 87    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 54.599  | -9.2    | 86    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 102.779 | -105.6# | 149   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 54.686  | -9.4    | 80    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.201  | -0.4    | 77    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 268.423 | -7.4    | 84    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 54.476  | -9.0    | 86    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 219.312 | 12.3    | 67    | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 43.716  | 12.6    | 70    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 46.256  | 7.5     | 73    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 53.645  | -7.3    | 78    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 216.312 | 13.5    | 67    | -0.02    |
| 30 C  | Chloroform                  | 50.000  | 46.378  | 7.2#    | 74    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 41.191  | 17.6    | 66    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 43.409  | 13.2    | 68    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 46.226  | 7.5     | 72    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0     | 78    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 45.919  | 8.2     | 73    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 43.327  | 13.3    | 70    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 42.186  | 15.6    | 67    | -0.01    |
| 38 T  | Carbon Tetrachloride        | 50.000  | 40.992  | 18.0    | 66    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 43.049  | 13.9    | 70    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 45.938  | 8.1     | 73    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 45.294  | 9.4     | 69    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 45.687  | 8.6     | 75    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 44.725  | 10.5    | 71    | -0.01    |
| 44 TM | Trichloroethene             | 50.000  | 45.325  | 9.3     | 73    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 47.632  | 4.7#    | 78    | 0.00     |

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 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 29 03:14:26 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X052418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 24 13:09:03 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   | 47.670  | 4.7   | 76    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 44.781  | 10.4  | 73    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 44.348  | 11.3  | 71    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 884.247 | 11.6  | 69    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 47.047  | 5.9   | 74    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 227.335 | 9.1   | 72    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 46.663  | 6.7#  | 75    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 46.716  | 6.6   | 74    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 46.249  | 7.5   | 74    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 47.272  | 5.5   | 78    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 45.444  | 9.1   | 75    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 48.065  | 3.9   | 78    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 250.272 | -0.1  | 81    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 228.283 | 8.7   | 72    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 45.902  | 8.2   | 73    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 47.730  | 4.5   | 77    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.578  | 2.8   | 76    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 80    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 45.673  | 8.7   | 76    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 46.592  | 6.8   | 78    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 45.266  | 9.5   | 76    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 46.056  | 7.9#  | 76    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 93.407  | 6.6   | 78    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 46.570  | 6.9   | 78    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 47.537  | 4.9   | 79    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 42.420  | 15.2  | 70    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 85    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 43.079  | 13.8  | 76    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 45.148  | 9.7   | 71    | -0.01    |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 48.184  | 3.6   | 80    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 50.043  | -0.1  | 92    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 45.238  | 9.5   | 80    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 44.308  | 11.4  | 78    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.933  | 2.1   | 79    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 43.911  | 12.2  | 78    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 39.634  | 20.7# | 72    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 45.211  | 9.6   | 80    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 42.917  | 14.2  | 77    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 44.464  | 11.1  | 80    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 43.980  | 12.0  | 78    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 44.818  | 10.4  | 79    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 45.946  | 8.1   | 82    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 46.710  | 6.6   | 83    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 46.222  | 7.6   | 79    | 0.00     |

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VSTDCCC050

Quant Time: May 29 03:14:26 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X052418W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 24 13:09:03 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 | 39.945 | 20.1# | 71    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 46.375 | 7.2   | 82    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 38.557 | 22.9# | 68    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 48.252 | 3.5   | 83    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 44.737 | 10.5  | 78    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 45.154 | 9.7   | 78    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 47.310 | 5.4   | 82    | 0.00     |

(#) = Out of Range

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