

Data Path : W:\HPCHEM1\MSVOA W\DATA\VW050818\  
 Data File : VW002287.D  
 Acq On : 08 May 2018 11:46  
 Operator : JC/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 08 16:01:39 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_W\METHOD\82W050818S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 08 03:57:58 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    | 117   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 70.687  | -41.4# | 160   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 54.766  | -9.5   | 131   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 52.125  | -4.3#  | 123   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 50.217  | -0.4   | 124   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 50.987  | -2.0   | 125   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 68.574  | -37.1# | 158   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 40.961  | 18.1   | 99    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 53.129  | -6.3   | 125   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 50.748  | -1.5   | 118   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 185.877 | 25.6#  | 95    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.858  | -3.7#  | 123   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 208.915 | 16.4   | 104   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 53.936  | -7.9   | 126   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 199.792 | 20.1#  | 96    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 278.119 | -11.2  | 139   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 53.173  | -6.3   | 125   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 38.755  | 22.5#  | 95    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 44.247  | 11.5   | 104   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 45.530  | 8.9    | 113   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.913  | -1.8   | 119   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 47.009  | 6.0    | 110   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 230.365 | 7.9    | 106   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.153  | 1.7    | 117   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 208.869 | 16.5   | 100   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 62.171  | -24.3# | 149   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.503  | 3.0    | 116   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 41.821  | 16.4   | 103   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 189.513 | 24.2#  | 91    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 47.376  | 5.2#   | 112   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 51.706  | -3.4   | 127   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.503  | -7.0   | 125   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 45.244  | 9.5    | 105   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 110   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.122  | -2.2   | 109   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 54.987  | -10.0  | 121   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 41.854  | 16.3   | 93    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 57.233  | -14.5  | 126   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 58.786  | -17.6  | 128   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.791  | -3.6   | 115   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 42.222  | 15.6   | 86    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 46.875  | 6.3    | 105   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 42.876  | 14.2   | 94    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 53.453  | -6.9   | 120   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.674  | 0.7#   | 111   | 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) |
|-------|-----------------------------|----------|---------|--------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 46.710  | 6.6    | 104   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.332  | -0.7   | 110   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 43.976  | 12.0   | 95    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 944.742 | 5.5    | 107   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 53.683  | -7.4   | 115   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 204.312 | 18.3   | 91    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.559  | -5.1#  | 115   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.168  | -2.3   | 112   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.657  | -5.3   | 116   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 45.240  | 9.5    | 101   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 44.696  | 10.6   | 96    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 45.677  | 8.6    | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 215.538 | 13.8   | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 223.910 | 10.4   | 97    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 48.178  | 3.6    | 106   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 44.939  | 10.1   | 99    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.012  | -4.0   | 112   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0    | 105   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.786  | 4.4    | 102   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 53.363  | -6.7   | 113   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.732  | -5.5   | 111   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 55.778  | -11.6# | 117   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 112.046 | -12.0  | 117   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 54.989  | -10.0  | 115   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.220  | -8.4   | 112   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 47.094  | 5.8    | 98    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0    | 104   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 56.963  | -13.9  | 119   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 45.520  | 9.0    | 95    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 44.385  | 11.2   | 94    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 38.539  | 22.9#  | 95    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.012  | -2.0   | 109   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 58.085  | -16.2  | 120   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 55.542  | -11.1  | 116   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 56.882  | -13.8  | 118   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 51.453  | -2.9   | 105   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 55.284  | -10.6  | 116   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 58.480  | -17.0  | 119   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 55.849  | -11.7  | 115   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 58.941  | -17.9  | 121   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 58.611  | -17.2  | 120   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.509  | -7.0   | 112   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.656  | -5.3   | 112   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 60.814  | -21.6# | 123   | 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 | 57.804 | -15.6 | 119   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.092 | -2.2  | 109   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 44.710 | 10.6  | 92    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.729 | -3.5  | 109   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 57.329 | -14.7 | 120   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 46.907 | 6.2   | 95    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 48.926 | 2.1   | 103   | 0.00     |

(#) = Out of Range

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