

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW091718\  
 Data File : VW005423.D  
 Acq On : 17 Sep 2018 10:26  
 Operator : SY/AP  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 18 01:07:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091618S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 15 02:32:34 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   | 133   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 50.038  | -0.1  | 132   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 46.893  | 6.2   | 136   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.197  | 3.6#  | 137   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 48.429  | 3.1   | 127   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 44.135  | 11.7  | 123   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 45.657  | 8.7   | 131   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 46.610  | 6.8   | 133   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.089  | 3.8   | 140   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 44.319  | 11.4  | 118   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 220.242 | 11.9  | 124   | 0.04     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.762  | 2.5#  | 140   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 268.322 | -7.3  | 156   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.896  | -1.8  | 142   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 225.661 | 9.7   | 125   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 234.307 | 6.3   | 125   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.897  | 6.2   | 134   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 42.612  | 14.8  | 120   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 47.226  | 5.5   | 128   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 46.784  | 6.4   | 122   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.138  | 5.7   | 136   | -0.01    |
| 22 T  | Diisopropyl ether           | 50.000  | 50.428  | -0.9  | 132   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 249.499 | 0.2   | 132   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.439  | 5.1   | 133   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 232.496 | 7.0   | 128   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 50.908  | -1.8  | 144   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.369  | 5.3   | 134   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 45.265  | 9.5   | 131   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 232.799 | 6.9   | 127   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 45.128  | 9.7#  | 128   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 51.451  | -2.9  | 147   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 46.683  | 6.6   | 128   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 41.772  | 16.5  | 118   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 130   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 45.551  | 8.9   | 123   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.413  | -0.8  | 135   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 46.520  | 7.0   | 127   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 48.086  | 3.8   | 131   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 55.789  | -11.6 | 146   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.952  | 2.1   | 130   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 47.013  | 6.0   | 126   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 43.259  | 13.5  | 119   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 47.353  | 5.3   | 126   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.074  | 1.9   | 133   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.759  | 0.5#  | 133   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW091718\  
 Data File : VW005423.D  
 Acq On : 17 Sep 2018 10:26  
 Operator : SY/AP  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 18 01:07:52 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091618S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 15 02:32:34 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   | 45.811  | 8.4   | 125   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 47.325  | 5.3   | 126   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 48.417  | 3.2   | 123   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 966.524 | 3.3   | 124   | 0.01     |
| 50 S  | Toluene-d8                  | 50.000   | 48.637  | 2.7   | 126   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 245.769 | 1.7   | 126   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.130  | -0.3# | 130   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.193  | -0.4  | 132   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.204  | -2.4  | 135   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 45.703  | 8.6   | 127   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.371  | -0.7  | 127   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 47.688  | 4.6   | 127   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 247.630 | 0.9   | 132   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 274.306 | -9.7  | 136   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 46.247  | 7.5   | 124   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 47.313  | 5.4   | 127   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.558  | 2.9   | 123   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 125   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.369  | 3.3   | 123   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.789  | 0.4   | 127   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 48.987  | 2.0   | 125   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.691  | -5.4# | 131   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 104.570 | -4.6  | 129   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.518  | -5.0  | 129   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.365  | -4.7  | 126   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 47.569  | 4.9   | 121   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 125   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.460  | -6.9  | 132   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 51.580  | -3.2  | 126   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 48.733  | 2.5   | 124   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 42.390  | 15.2  | 117   | -0.02    |
| 77 T  | Bromobenzene                | 50.000   | 49.137  | 1.7   | 124   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.967  | -7.9  | 132   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.835  | -3.7  | 129   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.519  | -5.0  | 126   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.440  | -4.9  | 129   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.637  | -3.3  | 128   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.853  | -7.7  | 130   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.254  | -4.5  | 126   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.375  | -8.8  | 133   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.013  | -8.0  | 130   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.050  | -0.1  | 126   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.067  | -0.1  | 125   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 56.117  | -12.2 | 134   | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW091718\  
Data File : VW005423.D  
Acq On : 17 Sep 2018 10:26  
Operator : SY/AP  
Sample : VSTDCCC050  
Misc : 5.00G/5ML/MSVOA W/SOIL  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
LabSampleId :  
VSTDCCC050

Quant Time: Sep 18 01:07:52 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W091618S.M  
Quant Title : SW846 8260  
QLast Update : Sat Sep 15 02:32:34 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 | 50.990 | -2.0 | 126   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.243 | -0.5 | 124   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 45.834 | 8.3  | 118   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 53.335 | -6.7 | 127   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 52.668 | -5.3 | 127   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 51.792 | -3.6 | 123   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.333 | -2.7 | 123   | 0.00     |

(#) = Out of Range

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