

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX121118\  
 Data File : VX006411.D  
 Acq On : 11 Dec 2018 10:47  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 12 04:42:05 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112918W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 30 03:55:33 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    | 75    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 54.407  | -8.8   | 76    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.300  | 1.4    | 73    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 49.676  | 0.6#   | 73    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 63.233  | -26.5# | 103   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 49.222  | 1.6    | 72    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.374  | -2.7   | 77    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.293  | -0.6   | 78    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 54.709  | -9.4   | 84    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 52.861  | -5.7   | 78    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 221.769 | 11.3   | 69    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.318  | -2.6#  | 80    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 269.563 | -7.8   | 85    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 44.830  | 10.3   | 68    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 242.821 | 2.9    | 74    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 309.629 | -23.9# | 95    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 41.914  | 16.2   | 64    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 49.382  | 1.2    | 75    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.169  | -0.3   | 77    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 50.605  | -1.2   | 81    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.789  | -1.6   | 78    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.493  | -5.0   | 81    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 264.163 | -5.7   | 80    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 55.391  | -10.8  | 87    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 281.792 | -12.7  | 86    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 52.651  | -5.3   | 82    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 54.367  | -8.7   | 84    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 53.380  | -6.8   | 79    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 245.270 | 1.9    | 75    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 54.545  | -9.1#  | 85    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.920  | -1.8   | 79    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.411  | -4.8   | 82    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 54.303  | -8.6   | 84    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 78    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.572  | -5.1   | 82    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.156  | -2.3   | 81    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.305  | 5.4    | 75    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.200  | 1.6    | 78    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.970  | -5.9   | 84    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.371  | -4.7   | 83    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.599  | 2.8    | 80    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 54.101  | -8.2   | 85    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 47.268  | 5.5    | 75    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.598  | -3.2   | 81    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.266  | -2.5#  | 82    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX121118\  
 Data File : VX006411.D  
 Acq On : 11 Dec 2018 10:47  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 12 04:42:05 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112918W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 30 03:55:33 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   | 51.532  | -3.1  | 82    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.273  | -0.5  | 79    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 48.509  | 3.0   | 76    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 980.178 | 2.0   | 79    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.910  | -5.8  | 83    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 246.626 | 1.3   | 77    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.134  | -6.3# | 85    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 48.573  | 2.9   | 77    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.519  | -1.0  | 80    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 55.332  | -10.7 | 87    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.059  | -4.1  | 82    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 54.060  | -8.1  | 86    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 268.681 | -7.5  | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 259.274 | -3.7  | 81    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 49.204  | 1.6   | 78    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 52.240  | -4.5  | 83    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 55.506  | -11.0 | 85    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 79    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.887  | 0.2   | 82    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 53.304  | -6.6  | 85    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.189  | -0.4  | 81    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.353  | -4.7# | 85    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.661 | -5.7  | 85    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.759  | -5.5  | 86    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.837  | -5.7  | 84    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 44.022  | 12.0  | 70    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 80    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.439  | -6.9  | 87    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 45.696  | 8.6   | 76    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.010  | -0.0  | 83    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 53.487  | -7.0  | 81    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.228  | -2.5  | 83    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 54.065  | -8.1  | 87    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.744  | -5.5  | 86    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.090  | -6.2  | 87    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 42.957  | 14.1  | 70    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 52.536  | -5.1  | 86    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.725  | -5.5  | 86    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.160  | -6.3  | 88    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.650  | -9.3  | 88    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.469  | -8.9  | 88    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.048  | -6.1  | 86    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.727  | -3.5  | 85    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.944  | -9.9  | 89    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX121118\  
Data File : VX006411.D  
Acq On : 11 Dec 2018 10:47  
Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: Dec 12 04:42:05 2018  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112918W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 30 03:55:33 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 | 46.615 | 6.8  | 75    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.835 | -3.7 | 86    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 44.725 | 10.5 | 78    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 52.870 | -5.7 | 87    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 54.236 | -8.5 | 88    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 51.470 | -2.9 | 85    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.618 | -5.2 | 86    | 0.00     |

(#) = Out of Range

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