

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\WX121418\  
 Data File : VX006559.D  
 Acq On : 15 Dec 2018 11:54  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 16 00:00:15 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    | 70    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.878  | 0.2    | 65    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.023  | 2.0    | 68    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 50.311  | -0.6#  | 69    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 66.119  | -32.2# | 100   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 55.211  | -10.4  | 75    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 52.365  | -4.7   | 73    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.784  | -7.6   | 77    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 52.372  | -4.7   | 75    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 44.210  | 11.6   | 61    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 248.762 | 0.5    | 72    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 53.992  | -8.0#  | 78    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 264.833 | -5.9   | 77    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 43.775  | 12.5   | 62    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 256.725 | -2.7   | 72    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 257.455 | -3.0   | 73    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.290  | 11.4   | 63    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 51.735  | -3.5   | 73    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 51.843  | -3.7   | 74    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 53.555  | -7.1   | 80    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 53.557  | -7.1   | 77    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 55.030  | -10.1  | 79    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 256.887 | -2.8   | 72    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 54.487  | -9.0   | 79    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 270.619 | -8.2   | 77    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 28.420  | 43.2#  | 41    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 56.065  | -12.1  | 81    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 51.947  | -3.9   | 71    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 264.565 | -5.8   | 76    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 55.478  | -11.0# | 80    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 53.209  | -6.4   | 77    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.235  | -4.5   | 76    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 52.761  | -5.5   | 76    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 74    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.754  | -1.5   | 75    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.222  | -4.4   | 79    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.242  | 1.5    | 74    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 47.304  | 5.4    | 71    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.130  | -2.3   | 77    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 54.319  | -8.6   | 82    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 49.303  | 1.4    | 77    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 54.613  | -9.2   | 82    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 47.821  | 4.4    | 72    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 53.002  | -6.0   | 79    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.733  | -5.5#  | 80    | 0.00     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\WX121418\  
 Data File : VX006559.D  
 Acq On : 15 Dec 2018 11:54  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 16 00:00:15 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   | 52.847   | -5.7  | 80    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 47.765   | 4.5   | 72    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 49.261   | 1.5   | 74    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1047.887 | -4.8  | 80    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.260   | -0.5  | 75    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 254.745  | -1.9  | 75    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.554   | -7.1# | 81    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 42.664   | 14.7  | 64    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 45.066   | 9.9   | 68    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 54.666   | -9.3  | 81    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.505   | -3.0  | 77    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 55.118   | -10.2 | 83    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 232.613  | 7.0   | 71    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 249.055  | 0.4   | 74    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 46.315   | 7.4   | 69    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.148   | -8.3  | 82    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.111   | -0.2  | 73    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 75    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 57.566   | -15.1 | 90    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 53.607   | -7.2  | 81    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.367   | 1.3   | 75    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.353   | -4.7# | 80    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.538  | -5.5  | 80    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.706   | -5.4  | 81    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.201   | -4.4  | 78    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 40.502   | 19.0  | 61    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 72    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 55.349   | -10.7 | 80    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 47.873   | 4.3   | 71    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.156   | -4.3  | 78    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 54.411   | -8.8  | 73    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 54.201   | -8.4  | 79    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.853   | -7.7  | 78    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 54.226   | -8.5  | 79    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.396   | -8.8  | 80    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 33.345   | 33.3# | 48    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.529   | -7.1  | 78    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.868   | -5.7  | 77    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.435   | -8.9  | 80    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.714   | -9.4  | 79    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.913   | -7.8  | 78    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 54.055   | -8.1  | 78    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.941   | -5.9  | 78    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.825   | -3.7  | 75    | 0.00     |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX121418\  
Data File : VX006559.D  
Acq On : 15 Dec 2018 11:54  
Operator : JC/MD  
Sample : VSTDCCC050  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: Dec 16 00:00:15 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 | 43.374 | 13.3 | 62    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 53.587 | -7.2 | 79    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 43.625 | 12.8 | 67    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.531 | -3.1 | 75    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 51.926 | -3.9 | 75    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 53.917 | -7.8 | 79    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.611 | -5.2 | 77    | 0.00     |

(#) = Out of Range

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