

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\ VX100418\  
 Data File : VX004968.D  
 Acq On : 03 Oct 2018 14:46  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 04 01:34:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 03 04:00:03 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   | 93    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 51.777  | -3.6  | 82    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.544  | 10.9  | 78    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.780  | 2.4#  | 85    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 51.995  | -4.0  | 94    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 51.743  | -3.5  | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.997  | -2.0  | 86    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.530  | 2.9   | 93    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 53.145  | -6.3  | 102   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 39.616  | 20.8# | 63    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 232.690 | 6.9   | 86    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.801  | 2.4#  | 94    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 165.116 | 34.0# | 63    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.967  | 0.1   | 90    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 245.644 | 1.7   | 88    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 243.991 | 2.4   | 87    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.236  | 11.5  | 80    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 55.830  | -11.7 | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.560  | -5.1  | 99    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 50.969  | -1.9  | 84    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.343  | 3.3   | 87    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.061  | -2.1  | 92    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 242.832 | 2.9   | 85    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.032  | 3.9   | 86    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 241.876 | 3.2   | 88    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 52.704  | -5.4  | 99    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.328  | 3.3   | 87    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 44.011  | 12.0  | 84    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 247.814 | 0.9   | 87    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 46.487  | 7.0#  | 90    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 54.132  | -8.3  | 90    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.616  | 2.8   | 90    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 44.899  | 10.2  | 78    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 93    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 44.176  | 11.6  | 78    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.624  | 4.8   | 91    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 46.763  | 6.5   | 86    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 44.013  | 12.0  | 83    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 58.793  | -17.6 | 111   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 45.898  | 8.2   | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 47.158  | 5.7   | 84    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 44.641  | 10.7  | 85    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.963  | 2.1   | 85    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.481  | -3.0  | 105   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.316  | -0.6# | 100   | 0.00     |

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 LabSampleId :  
 VSTDCCC050

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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 03 04:00:03 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   | 51.040  | -2.1  | 102   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.917  | -1.8  | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 56.221  | -12.4 | 102   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 967.337 | 3.3   | 87    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.979  | -2.0  | 101   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 273.013 | -9.2  | 101   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.409  | -4.8# | 97    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.539  | -7.1  | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 55.344  | -10.7 | 104   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.303  | 1.4   | 91    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.718  | 0.6   | 98    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.339  | -0.7  | 91    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 249.861 | 0.1   | 98    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 263.910 | -5.6  | 91    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.153  | -0.3  | 85    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.532  | 2.9   | 85    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 53.205  | -6.4  | 105   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 98    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.857  | 0.3   | 96    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.731  | 2.5   | 97    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 49.388  | 1.2   | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.322  | -4.6# | 104   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 104.698 | -4.7  | 99    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 54.654  | -9.3  | 105   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 49.526  | 0.9   | 104   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 49.061  | 1.9   | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 107   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 55.469  | -10.9 | 107   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 48.065  | 3.9   | 104   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.419  | 5.2   | 103   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.986  | 0.0   | 104   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.427  | -0.9  | 104   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 55.930  | -11.9 | 107   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.283  | -6.6  | 106   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.796  | -3.6  | 106   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 45.116  | 9.8   | 103   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.693  | -7.4  | 105   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 56.485  | -13.0 | 109   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.690  | -3.4  | 106   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 56.608  | -13.2 | 110   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 56.855  | -13.7 | 110   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 50.336  | -0.7  | 104   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.709  | 0.6   | 105   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 56.947  | -13.9 | 111   | 0.00     |

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Quant Title : SW846 8260  
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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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 50.169 | -0.3 | 108   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.715 | 2.6  | 103   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.882 | 2.2  | 104   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 54.414 | -8.8 | 110   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 51.756 | -3.5 | 113   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 50.836 | -1.7 | 107   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 53.201 | -6.4 | 108   | 0.00     |

(#) = Out of Range

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