

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX072018\  
 Data File : VX003520.D  
 Acq On : 20 Jul 2018 20:31  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 21 03:51:47 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071918W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 19 17:09:44 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   | 88    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 56.416  | -12.8 | 102   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 54.750  | -9.5  | 97    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 47.555  | 4.9#  | 83    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 53.958  | -7.9  | 98    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 52.326  | -4.7  | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 50.335  | -0.7  | 96    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.893  | 0.2   | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.067  | 3.9   | 93    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 52.670  | -5.3  | 95    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 279.325 | -11.7 | 99    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 50.056  | -0.1# | 94    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 222.305 | 11.1  | 80    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 51.428  | -2.9  | 95    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 266.646 | -6.7  | 100   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 276.535 | -10.6 | 104   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 49.585  | 0.8   | 90    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 55.562  | -11.1 | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.229  | -4.5  | 96    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 53.442  | -6.9  | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.903  | 2.2   | 94    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.007  | -4.0  | 97    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 259.032 | -3.6  | 96    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.891  | -3.8  | 97    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 273.680 | -9.5  | 102   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 45.590  | 8.8   | 84    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.847  | 0.3   | 93    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 53.991  | -8.0  | 99    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 271.566 | -8.6  | 101   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.136  | -4.3# | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.512  | -1.0  | 93    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.704  | -5.4  | 98    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 54.557  | -9.1  | 101   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 86    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 54.803  | -9.6  | 99    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.506  | -3.0  | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 54.992  | -10.0 | 99    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 53.245  | -6.5  | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.649  | -1.3  | 92    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.470  | -4.9  | 96    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 53.105  | -6.2  | 100   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 54.960  | -9.9  | 101   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 56.432  | -12.9 | 101   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.047  | -0.1  | 92    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 53.643  | -7.3# | 97    | 0.00     |

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 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Thu Jul 19 17:09:44 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   | 53.742   | -7.5   | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 55.450   | -10.9  | 97    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 58.267   | -16.5  | 103   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1089.686 | -9.0   | 94    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 55.292   | -10.6  | 98    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 296.077  | -18.4  | 104   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.442   | -4.9#  | 94    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 54.654   | -9.3   | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.522   | -9.0   | 93    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.394   | -6.8   | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 56.554   | -13.1  | 96    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 54.381   | -8.8   | 97    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 274.762  | -9.9   | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 301.036  | -20.4# | 103   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.411   | -10.8  | 95    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.119   | -8.2   | 96    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 55.315   | -10.6  | 98    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.354   | 3.3    | 92    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.086   | 1.8    | 94    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.119   | -2.2   | 95    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.086   | -2.2#  | 96    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 102.304  | -2.3   | 94    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.259   | -2.5   | 94    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.551   | -5.1   | 94    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.657   | -3.3   | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.529   | -3.1   | 93    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.670   | -7.3   | 101   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.515   | -5.0   | 98    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 54.787   | -9.6   | 101   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.917   | 2.2    | 92    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.640   | -5.3   | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.433   | -2.9   | 96    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.696   | -5.4   | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.660   | 2.7    | 93    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.587   | -3.2   | 96    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.006   | -2.0   | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.889   | -5.8   | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.801   | -3.6   | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.899   | -3.8   | 93    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.053   | 3.9    | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.076   | 5.8    | 92    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.081   | -4.2   | 94    | 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) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 51.188 | -2.4  | 96    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.435 | 1.1   | 93    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 55.191 | -10.4 | 99    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 47.409 | 5.2   | 89    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 46.364 | 7.3   | 87    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 52.894 | -5.8  | 93    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 48.997 | 2.0   | 91    | 0.00     |

(#) = Out of Range

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