

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX080818\  
 Data File : VX003938.D  
 Acq On : 08 Aug 2018 21:44  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 09 05:14:46 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080618W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 07:45:48 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   | 97    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.950  | 6.1   | 89    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 42.878  | 14.2  | 87    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.412  | 9.2#  | 90    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 34.489  | 31.0# | 64    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.327  | 3.3   | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.485  | 7.0   | 92    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.645  | 4.7   | 95    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 45.797  | 8.4   | 93    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 29.590  | 40.8# | 56    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 245.889 | 1.6   | 97    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.844  | 6.3#  | 94    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 199.370 | 20.3# | 79    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.661  | 8.7   | 89    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 234.138 | 6.3   | 93    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 224.771 | 10.1  | 91    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.484  | 11.0  | 88    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 47.984  | 4.0   | 95    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.287  | 1.4   | 97    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.951  | 4.1   | 93    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 45.907  | 8.2   | 95    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 47.871  | 4.3   | 96    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 242.717 | 2.9   | 94    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.047  | 5.9   | 93    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 246.497 | 1.4   | 95    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 37.959  | 24.1# | 76    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.303  | 1.4   | 100   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.644  | 2.7   | 95    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 242.639 | 2.9   | 94    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.461  | 3.1#  | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.349  | 3.3   | 95    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.962  | 0.1   | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.369  | 1.3   | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 100   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.612  | 2.8   | 96    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.795  | 6.4   | 96    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 47.276  | 5.4   | 95    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 47.694  | 4.6   | 94    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.815  | 4.4   | 97    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 47.429  | 5.1   | 97    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 47.923  | 4.2   | 96    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 47.692  | 4.6   | 97    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 49.366  | 1.3   | 97    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 46.587  | 6.8   | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 47.276  | 5.4#  | 95    | 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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 47.064   | 5.9   | 96    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 47.864   | 4.3   | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.131   | -0.3  | 96    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1016.607 | -1.7  | 98    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 47.955   | 4.1   | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 248.228  | 0.7   | 96    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.762   | -3.5# | 102   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 47.412   | 5.2   | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 47.885   | 4.2   | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.276   | 3.4   | 97    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.938   | -3.9  | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 47.920   | 4.2   | 99    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 250.049  | -0.0  | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 254.644  | -1.9  | 98    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.294   | -2.6  | 98    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.613   | 0.8   | 99    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 55.196   | -10.4 | 114   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 106   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 44.319   | 11.4  | 99    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 46.917   | 6.2   | 99    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 48.722   | 2.6   | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.691   | -1.4# | 105   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 104.437  | -4.4  | 109   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.739   | -5.5  | 107   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.865   | -3.7  | 105   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 45.670   | 8.7   | 103   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 106   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.328   | -2.7  | 103   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 45.680   | 8.6   | 97    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.474   | 1.1   | 112   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.795   | 0.4   | 110   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.682   | -1.4  | 115   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.913   | -3.8  | 111   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.126   | -0.3  | 111   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.558   | -5.1  | 113   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 42.002   | 16.0  | 95    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.348   | -0.7  | 111   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.448   | -6.9  | 112   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 55.494   | -11.0 | 116   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.151   | -4.3  | 107   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.177   | 1.6   | 101   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.087   | 5.8   | 105   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.669   | 2.7   | 103   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 44.501   | 11.0  | 92    | 0.00     |

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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 | 43.778 | 12.4  | 91    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 44.372 | 11.3  | 97    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 46.366 | 7.3   | 96    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.161 | -2.3  | 111   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 51.139 | -2.3  | 110   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 57.910 | -15.8 | 115   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.553 | -5.1  | 112   | 0.00     |

(#) = Out of Range

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