

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX122418\  
 Data File : VX006806.D  
 Acq On : 24 Dec 2018 20:11  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 25 04:24:26 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121818W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Dec 19 15:20:58 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  | 44.006  | 12.0  | 89    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.358  | 11.3  | 90    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.985  | 6.0#  | 95    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.761  | 6.5   | 89    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 44.496  | 11.0  | 96    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.457  | 3.1   | 96    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.640  | 2.7   | 100   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.676  | 2.6   | 97    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 53.021  | -6.0  | 97    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 240.069 | 4.0   | 95    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.458  | 5.1#  | 96    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 254.088 | -1.6  | 103   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.948  | 0.1   | 99    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 258.115 | -3.2  | 101   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 228.755 | 8.5   | 93    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 40.237  | 19.5  | 83    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 56.925  | -13.8 | 113   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.612  | -5.2  | 104   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.935  | 4.1   | 100   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.341  | 7.3   | 97    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.700  | -5.4  | 103   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 259.215 | -3.7  | 101   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.457  | 3.1   | 100   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 245.818 | 1.7   | 97    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 43.568  | 12.9  | 86    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.283  | 3.4   | 96    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 53.966  | -7.9  | 102   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 254.093 | -1.6  | 100   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.005  | 2.0#  | 98    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.524  | 7.0   | 93    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.711  | 0.6   | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.450  | 1.1   | 96    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 92    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.966  | -3.9  | 96    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.284  | 1.4   | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 52.624  | -5.2  | 102   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.195  | -0.4  | 93    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.376  | 5.2   | 91    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.324  | -0.6  | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 56.303  | -12.6 | 101   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.882  | 0.2   | 98    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 56.845  | -13.7 | 104   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.636  | 2.7   | 95    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.849  | -5.7# | 103   | 0.00     |

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 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Wed Dec 19 15:20:58 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   | 49.980  | 0.0   | 95    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.702  | -5.4  | 97    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 56.663  | -13.3 | 102   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 916.117 | 8.4   | 83    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.410  | -2.8  | 95    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 275.783 | -10.3 | 100   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.322  | -2.6# | 96    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 54.746  | -9.5  | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.649  | -9.3  | 95    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.670  | -3.3  | 98    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.914  | -9.8  | 97    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.649  | -3.3  | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 268.001 | -7.2  | 100   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 267.158 | -6.9  | 96    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 49.049  | 1.9   | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.264  | -6.5  | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.892  | -1.8  | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 92    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.148  | 3.7   | 94    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.559  | 0.9   | 95    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 55.681  | -11.4 | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.768  | -1.5# | 96    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 100.445 | -0.4  | 93    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.449  | -0.9  | 93    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.370  | -2.7  | 93    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 45.330  | 9.3   | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 90    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.256  | -2.5  | 95    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 57.567  | -15.1 | 102   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 53.257  | -6.5  | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 53.696  | -7.4  | 94    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.962  | -1.9  | 93    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.882  | -3.8  | 95    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.944  | 0.1   | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.323  | -2.6  | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 45.346  | 9.3   | 91    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.283  | -0.6  | 93    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.893  | -3.8  | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.180  | -0.4  | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.129  | -2.3  | 93    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.070  | -4.1  | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.886  | 0.2   | 92    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.972  | 2.1   | 92    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.257  | -4.5  | 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 | 48.936 | 2.1  | 96    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.019 | -0.0 | 94    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.326 | -4.7 | 93    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 52.544 | -5.1 | 96    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 52.127 | -4.3 | 99    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 51.150 | -2.3 | 94    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.248 | -2.5 | 97    | 0.00     |

(#) = Out of Range

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