

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX071718\  
 Data File : VX003414.D  
 Acq On : 17 Jul 2018 08:09  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 17 11:16:08 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071618W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 16 13:15:28 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   | 112   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 50.496  | -1.0  | 115   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 44.754  | 10.5  | 109   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.706  | 8.6#  | 109   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 50.191  | -0.4  | 106   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 50.827  | -1.7  | 109   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.253  | 7.5   | 112   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 45.137  | 9.7   | 110   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 45.851  | 8.3   | 113   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 48.769  | 2.5   | 107   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 223.482 | 10.6  | 107   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 44.014  | 12.0# | 107   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 192.503 | 23.0# | 97    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.607  | 4.8   | 115   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 221.047 | 11.6  | 108   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 224.185 | 10.3  | 111   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.075  | 9.8   | 111   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 50.163  | -0.3  | 113   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.957  | 2.1   | 119   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 56.660  | -13.3 | 114   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 45.014  | 10.0  | 111   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 47.111  | 5.8   | 118   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 239.879 | 4.0   | 119   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 46.059  | 7.9   | 113   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 225.343 | 9.9   | 106   | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 50.507  | -1.0  | 123   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.290  | 5.4   | 112   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.263  | 3.5   | 118   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 226.790 | 9.3   | 105   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.640  | 2.7#  | 114   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 49.153  | 1.7   | 112   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.141  | 1.7   | 114   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 43.126  | 13.7  | 107   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 100   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 54.296  | -8.6  | 113   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 54.687  | -9.4  | 110   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.079  | -2.2  | 108   | -0.01    |
| 38 T  | Carbon Tetrachloride        | 50.000  | 54.774  | -9.5  | 110   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 50.925  | -1.8  | 102   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.943  | -1.9  | 101   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 53.698  | -7.4  | 110   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.379  | 1.2   | 104   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.540  | 2.9   | 99    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.398  | 1.2   | 97    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.623  | 0.8#  | 99    | 0.00     |

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 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Mon Jul 16 13:15:28 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   | 48.329  | 3.3    | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.119  | -0.2   | 99    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 49.836  | 0.3    | 99    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 938.109 | 6.2    | 90    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.440  | -2.9   | 103   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 265.983 | -6.4   | 104   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 55.670  | -11.3# | 108   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.837  | -7.7   | 102   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 58.299  | -16.6  | 112   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.849  | -5.7   | 105   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.016  | -8.0   | 103   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.282  | -6.6   | 105   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 255.781 | -2.3   | 97    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 245.003 | 2.0    | 96    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 49.836  | 0.3    | 95    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.541  | 2.9    | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 53.666  | -7.3   | 107   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0    | 96    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 59.502  | -19.0  | 112   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.416  | -0.8   | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.884  | -3.8   | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.824  | -3.6#  | 97    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.808 | -5.8   | 97    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 52.328  | -4.7   | 95    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.419  | -6.8   | 96    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.275  | -2.5   | 92    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0    | 108   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 45.994  | 8.0    | 97    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 43.202  | 13.6   | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 46.127  | 7.7    | 103   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 47.613  | 4.8    | 105   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.670  | 0.7    | 106   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.720  | -3.4   | 108   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.900  | -3.8   | 112   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.017  | -8.0   | 111   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 49.063  | 1.9    | 99    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 53.240  | -6.5   | 115   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.946  | -5.9   | 109   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.950  | -5.9   | 109   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.572  | -3.1   | 107   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 55.200  | -10.4  | 112   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.037  | 1.9    | 106   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.281  | 3.4    | 106   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 55.371  | -10.7  | 115   | 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 | 54.132 | -8.3  | 115   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.848 | 2.3   | 105   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.271 | -4.5  | 110   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 56.066 | -12.1 | 115   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 56.429 | -12.9 | 117   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 55.539 | -11.1 | 108   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 53.740 | -7.5  | 110   | 0.00     |

(#) = Out of Range

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