

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX012820\  
 Data File : VX014740.D  
 Acq On : 28 Jan 2020 10:17  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 28 23:36:47 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X012220W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jan 22 12:35:15 2020  
 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    | 109   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.497  | 7.0    | 98    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.274  | 9.5    | 95    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.318  | 3.4#   | 96    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 44.191  | 11.6   | 97    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.588  | 4.8    | 97    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.256  | 7.5    | 101   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 45.846  | 8.3    | 102   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.380  | 3.2    | 105   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.677  | 0.6    | 98    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 193.474 | 22.6#  | 96    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 45.866  | 8.3#   | 100   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 313.552 | -25.4# | 140   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 46.209  | 7.6    | 97    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 220.886 | 11.6   | 97    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 202.917 | 18.8   | 89    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.646  | 10.7   | 95    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 44.693  | 10.6   | 97    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 47.230  | 5.5    | 101   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 45.006  | 10.0   | 102   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 45.424  | 9.2    | 100   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 47.883  | 4.2    | 99    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 244.565 | 2.2    | 104   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.024  | 6.0    | 100   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 213.534 | 14.6   | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.834  | 4.3    | 102   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 46.096  | 7.8    | 100   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 43.453  | 13.1   | 100   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 221.994 | 11.2   | 96    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 47.158  | 5.7#   | 102   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.374  | 7.3    | 97    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.030  | 5.9    | 103   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 45.856  | 8.3    | 102   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 104   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.090  | 3.8    | 101   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 51.469  | -2.9   | 102   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 46.957  | 6.1    | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.511  | -3.0   | 104   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.640  | -3.3   | 102   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.635  | 0.7    | 100   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 47.351  | 5.3    | 98    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.607  | -1.2   | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 47.639  | 4.7    | 97    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.680  | 2.6    | 100   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.550  | -1.1#  | 102   | 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   | 49.796  | 0.4   | 100   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.551  | -3.1  | 103   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 49.547  | 0.9   | 96    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 870.912 | 12.9  | 97    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 48.485  | 3.0   | 101   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 236.505 | 5.4   | 97    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 51.062  | -2.1# | 101   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.059  | -4.1  | 101   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.503  | -7.0  | 102   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.609  | -1.2  | 101   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 46.363  | 7.3   | 99    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.643  | 0.7   | 101   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 260.756 | -4.3  | 99    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 242.751 | 2.9   | 98    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.679  | -3.4  | 103   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.789  | 0.4   | 101   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.802  | 2.4   | 103   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 105   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.338  | 5.3   | 93    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.092  | -0.2  | 103   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.505  | -1.0  | 104   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.929  | -3.9# | 103   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 104.947 | -4.9  | 102   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.822  | -3.6  | 102   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.075  | -8.2  | 103   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.827  | -3.7  | 104   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 107   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.184  | -2.4  | 104   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 49.727  | 0.5   | 100   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 45.550  | 8.9   | 102   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 41.895  | 16.2  | 88    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.880  | 2.2   | 104   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.046  | -4.1  | 104   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.659  | -1.3  | 105   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.802  | -3.6  | 103   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 47.235  | 5.5   | 98    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.571  | -3.1  | 105   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.694  | -3.4  | 108   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.088  | -4.2  | 105   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.830  | -5.7  | 105   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.271  | -6.5  | 106   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.273  | 1.5   | 105   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.888  | 2.2   | 105   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.352  | -6.7  | 107   | 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 | 49.649 | 0.7  | 106   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.598 | 0.8  | 105   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 44.554 | 10.9 | 98    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 52.784 | -5.6 | 107   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 51.663 | -3.3 | 107   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 47.311 | 5.4  | 101   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 52.431 | -4.9 | 105   | 0.00     |

(#) = Out of Range

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