

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX031220\  
 Data File : VX015222.D  
 Acq On : 12 Mar 2020 08:56  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 13 02:23:32 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X030420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 04 14:19:10 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   | 76    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 46.787  | 6.4   | 73    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.057  | 9.9   | 73    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 45.438  | 9.1#  | 72    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.334  | 7.3   | 74    | -0.01    |
| 6 T   | Chloroethane                | 50.000  | 47.535  | 4.9   | 74    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.641  | 2.7   | 76    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.679  | 4.6   | 73    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.184  | 1.6   | 76    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 41.852  | 16.3  | 59    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 231.085 | 7.6   | 72    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.131  | 7.7#  | 73    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 212.535 | 15.0  | 67    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.714  | -1.4  | 78    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 249.022 | 0.4   | 76    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 254.052 | -1.6  | 79    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 44.848  | 10.3  | 70    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 48.173  | 3.7   | 78    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 49.137  | 1.7   | 74    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 46.728  | 6.5   | 77    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.551  | 4.9   | 74    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.727  | -3.5  | 78    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 255.868 | -2.3  | 74    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.933  | 4.1   | 74    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 262.579 | -5.0  | 78    | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.286  | 3.4   | 75    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 49.246  | 1.5   | 75    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.336  | -0.7  | 76    | -0.01    |
| 29 T  | Tetrahydrofuran             | 250.000 | 244.429 | 2.2   | 74    | -0.01    |
| 30 C  | Chloroform                  | 50.000  | 47.529  | 4.9#  | 74    | -0.01    |
| 31 T  | Cyclohexane                 | 50.000  | 50.370  | -0.7  | 77    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.281  | 3.4   | 73    | -0.01    |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 42.792  | 14.4  | 67    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 67    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.192  | -4.4  | 72    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 54.676  | -9.4  | 75    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 58.490  | -17.0 | 73    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 54.352  | -8.7  | 74    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 54.110  | -8.2  | 72    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 54.308  | -8.6  | 73    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 55.311  | -10.6 | 75    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.227  | -4.5  | 70    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.078  | -2.2  | 67    | -0.01    |
| 44 TM | Trichloroethene             | 50.000  | 51.855  | -3.7  | 71    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.600  | -5.2# | 71    | 0.00     |

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 VSTDCCC050

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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) |
|-------|-----------------------------|----------|---------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 48.972  | 2.1   | 67    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.609  | -1.2  | 67    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.034  | -0.1  | 67    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 983.952 | 1.6   | 68    | -0.02    |
| 50 S  | Toluene-d8                  | 50.000   | 49.834  | 0.3   | 67    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 261.507 | -4.6  | 68    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.442  | -6.9# | 70    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 54.425  | -8.8  | 69    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.000  | -8.0  | 70    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.093  | -2.2  | 69    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 56.515  | -13.0 | 71    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.474  | -2.9  | 69    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 268.485 | -7.4  | 70    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 274.888 | -10.0 | 69    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.074  | -6.1  | 70    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.377  | -0.8  | 69    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 54.850  | -9.7  | 75    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 68    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 54.402  | -8.8  | 75    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.673  | -3.3  | 71    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.170  | -2.3  | 71    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 54.661  | -9.3# | 72    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 109.240 | -9.2  | 72    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 56.908  | -13.8 | 75    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 59.705  | -19.4 | 78    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 56.866  | -13.7 | 75    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 76    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.103  | -4.2  | 76    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 50.489  | -1.0  | 74    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 46.256  | 7.5   | 73    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 42.677  | 14.6  | 65    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.661  | 0.7   | 79    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.362  | -6.7  | 78    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.323  | -2.6  | 78    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.605  | -5.2  | 78    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.625  | -1.3  | 76    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.561  | -3.1  | 79    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.327  | -2.7  | 77    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.888  | -5.8  | 78    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.475  | -7.0  | 79    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 55.270  | -10.5 | 80    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.033  | -2.1  | 79    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.522  | -1.0  | 81    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 55.484  | -11.0 | 80    | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 48.998 | 2.0   | 76    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.525 | -1.0  | 80    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 49.580 | 0.8   | 74    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 56.350 | -12.7 | 85    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 56.459 | -12.9 | 88    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 48.422 | 3.2   | 76    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 55.635 | -11.3 | 83    | 0.00     |

(#) = Out of Range

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