

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX011819\  
 Data File : VX007147.D  
 Acq On : 18 Jan 2019 20:41  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 18 23:28:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X010819W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 08 14:06:59 2019  
 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    | 77    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.706  | 4.6    | 71    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.485  | 9.0    | 72    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 47.253  | 5.5#   | 75    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 38.432  | 23.1#  | 67    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 45.583  | 8.8    | 80    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.856  | 2.3    | 81    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.166  | 3.7    | 82    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.177  | 3.6    | 84    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 41.974  | 16.1   | 63    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 254.043 | -1.6   | 87    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.298  | 5.4#   | 79    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 300.338 | -20.1# | 94    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.404  | 1.2    | 81    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 260.039 | -4.0   | 87    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 246.096 | 1.6    | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 41.329  | 17.3   | 68    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 53.613  | -7.2   | 93    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.439  | -0.9   | 84    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 51.917  | -3.8   | 83    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.624  | 6.8    | 80    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 50.382  | -0.8   | 83    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 244.147 | 2.3    | 80    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.740  | 0.5    | 82    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 255.420 | -2.2   | 84    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 42.660  | 14.7   | 71    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.751  | 4.5    | 80    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 53.482  | -7.0   | 82    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 255.541 | -2.2   | 85    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.659  | -1.3#  | 85    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.918  | 8.2    | 76    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.688  | 0.6    | 80    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.315  | -0.6   | 77    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 78    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.350  | -0.7   | 77    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.961  | 6.1    | 79    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.381  | -0.8   | 84    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 47.597  | 4.8    | 79    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 44.745  | 10.5   | 76    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.181  | 3.6    | 81    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.066  | 3.9    | 85    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.456  | 3.1    | 83    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.384  | -0.8   | 83    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 46.777  | 6.4    | 80    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 48.695  | 2.6#   | 82    | 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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 49.946   | 0.1   | 84    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.851   | -3.7  | 84    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.738   | -1.5  | 85    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1063.793 | -6.4  | 88    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.989   | 0.0   | 75    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 265.467  | -6.2  | 88    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.175   | 1.7#  | 83    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 50.251   | -0.5  | 79    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.099   | -0.2  | 80    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.974   | -5.9  | 87    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.135   | -4.3  | 85    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.868   | -1.7  | 85    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 264.353  | -5.7  | 81    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 261.474  | -4.6  | 87    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.249   | -10.5 | 85    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.712   | -3.4  | 85    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.977   | -2.0  | 77    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 80    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.087   | 3.8   | 86    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.939   | 2.1   | 85    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.883   | -5.8  | 86    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.974   | 2.1#  | 85    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 97.733   | 2.3   | 84    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 49.333   | 1.3   | 85    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 49.741   | 0.5   | 85    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 44.870   | 10.3  | 83    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 82    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 49.358   | 1.3   | 85    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 49.853   | 0.3   | 84    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 49.659   | 0.7   | 87    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 51.517   | -3.0  | 88    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.278   | 1.4   | 85    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.467   | -0.9  | 85    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.861   | 2.3   | 86    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.817   | 2.4   | 84    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 43.555   | 12.9  | 78    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.232   | 1.5   | 85    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 49.957   | 0.1   | 85    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.931   | 0.1   | 85    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.037   | -0.1  | 86    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 49.991   | 0.0   | 86    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.315   | 3.4   | 86    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.887   | -1.8  | 87    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.023   | -0.0  | 85    | 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 | 47.238 | 5.5  | 84    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.366 | 3.3  | 87    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.436 | -4.9 | 86    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 49.254 | 1.5  | 86    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 52.094 | -4.2 | 91    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 51.002 | -2.0 | 89    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 49.256 | 1.5  | 87    | 0.00     |

(#) = Out of Range

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