

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX022620\  
 Data File : VX015031.D  
 Acq On : 26 Feb 2020 19:08  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 27 04:01:31 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X021020W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 10 12:09:20 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    | 85    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 45.200  | 9.6    | 71    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 50.749  | -1.5   | 85    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.650  | 2.7#   | 80    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 43.567  | 12.9   | 78    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.636  | 4.7    | 79    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 44.942  | 10.1   | 75    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.418  | 1.2    | 83    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.043  | 3.9    | 82    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.026  | 1.9    | 84    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 290.297 | -16.1  | 98    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.363  | 1.3#   | 82    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 213.499 | 14.6   | 73    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.585  | -1.2   | 86    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 288.793 | -15.5  | 95    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 195.832 | 21.7#  | 64    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 43.432  | 13.1   | 72    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 61.918  | -23.8# | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.155  | -6.3   | 88    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.618  | 2.8    | 87    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.447  | 3.1    | 82    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 55.000  | -10.0  | 90    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 286.346 | -14.5  | 92    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.421  | -4.8   | 88    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 259.642 | -3.9   | 84    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 45.813  | 8.4    | 78    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.995  | -4.0   | 87    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 53.848  | -7.7   | 92    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 295.730 | -18.3  | 94    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.016  | -4.0#  | 86    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.750  | 2.5    | 82    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.308  | -0.6   | 84    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 52.016  | -4.0   | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 87    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 53.636  | -7.3   | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 48.174  | 3.7    | 81    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 55.168  | -10.3  | 93    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.111  | 1.8    | 82    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 46.122  | 7.8    | 79    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.679  | -1.4   | 87    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 56.379  | -12.8  | 91    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.115  | 1.8    | 84    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 54.990  | -10.0  | 92    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.471  | -0.9   | 87    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.723  | -5.4#  | 90    | 0.00     |

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 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
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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   | 50.504   | -1.0  | 87    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.000   | -2.0  | 86    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 55.281   | -10.6 | 91    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1170.800 | -17.1 | 100   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.521   | -5.0  | 95    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 287.085  | -14.8 | 95    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.627   | -1.3# | 86    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.096   | -2.2  | 85    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.100   | -2.2  | 85    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.738   | -5.5  | 90    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 55.398   | -10.8 | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.182   | -4.4  | 89    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 271.982  | -8.8  | 93    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 277.211  | -10.9 | 90    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.161   | -6.3  | 87    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.203   | -2.4  | 88    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 54.171   | -8.3  | 97    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 85    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 42.745   | 14.5  | 72    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.413   | -0.8  | 86    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.252   | -4.5  | 87    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.640   | -3.3# | 85    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.730  | -1.7  | 85    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.886   | -3.8  | 86    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.749   | -7.5  | 87    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 54.088   | -8.2  | 86    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 89    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.905   | -1.8  | 84    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 55.199   | -10.4 | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 53.512   | -7.0  | 94    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 49.846   | 0.3   | 91    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.999   | 0.0   | 87    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.471   | -0.9  | 85    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.452   | -0.9  | 86    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.674   | -1.3  | 84    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.739   | -5.5  | 87    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.817   | 0.4   | 85    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.349   | -6.7  | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.117   | -2.2  | 85    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.419   | -0.8  | 85    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 50.009   | -0.0  | 83    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.936   | 2.1   | 84    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.547   | 4.9   | 84    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 49.253   | 1.5   | 82    | 0.00     |

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Response via : Initial Calibration

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

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 51.997 | -4.0 | 87    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.359 | 1.3  | 86    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 49.776 | 0.4  | 89    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 49.010 | 2.0  | 84    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 47.545 | 4.9  | 82    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 54.950 | -9.9 | 88    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 49.859 | 0.3  | 84    | 0.00     |

(#) = Out of Range

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