

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX102318\  
 Data File : VX005530.D  
 Acq On : 23 Oct 2018 19:20  
 Operator : JC/MD  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 24 03:51:32 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X101218W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Oct 12 11:28:43 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    | 75    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.923  | 4.2    | 65    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 46.793  | 6.4    | 71    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.142  | 3.7#   | 76    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 39.394  | 21.2#  | 59    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.324  | 3.4    | 71    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.432  | 1.1    | 75    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 49.841  | 0.3    | 78    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 52.132  | -4.3   | 78    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 36.710  | 26.6#  | 52    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 257.023 | -2.8   | 80    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.658  | 0.7#   | 76    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 209.932 | 16.0   | 61    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 52.449  | -4.9   | 78    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 258.800 | -3.5   | 84    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 249.303 | 0.3    | 77    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 42.645  | 14.7   | 68    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 58.500  | -17.0  | 90    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.154  | -6.3   | 80    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 56.452  | -12.9  | 79    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.370  | 1.3    | 80    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 58.125  | -16.3  | 85    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 279.717 | -11.9  | 85    | 0.01     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.904  | -5.8   | 84    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 288.261 | -15.3  | 85    | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 51.608  | -3.2   | 83    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.760  | -5.5   | 84    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 67.142  | -34.3# | 102   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 279.275 | -11.7  | 80    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.871  | -5.7#  | 81    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 52.063  | -4.1   | 76    | 0.01     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 55.616  | -11.2  | 85    | 0.01     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 54.598  | -9.2   | 87    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 77    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.660  | -5.3   | 86    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 45.745  | 8.5    | 73    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 53.238  | -6.5   | 87    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.588  | 0.8    | 81    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 43.925  | 12.2   | 70    | 0.01     |
| 40 TM | Benzene                     | 50.000  | 46.158  | 7.7    | 72    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 54.567  | -9.1   | 87    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.157  | -0.3   | 82    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 55.161  | -10.3  | 87    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 43.332  | 13.3   | 70    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 48.339  | 3.3#   | 79    | 0.00     |

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 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
 QLast Update : Fri Oct 12 11:28:43 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   | 45.692  | 8.6   | 73    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 48.733  | 2.5   | 79    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.251  | -0.5  | 77    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 914.320 | 8.6   | 72    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.248  | 1.5   | 79    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 260.697 | -4.3  | 83    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 47.432  | 5.1#  | 75    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.415  | -2.8  | 79    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.064  | 1.9   | 77    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.052  | 1.9   | 80    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.810  | -3.6  | 79    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 48.279  | 3.4   | 79    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 252.940 | -1.2  | 77    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 255.082 | -2.0  | 82    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 49.719  | 0.6   | 78    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 47.694  | 4.6   | 77    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.191  | -0.4  | 82    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 75    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.912  | 4.2   | 74    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.113  | 3.8   | 75    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.094  | -2.2  | 77    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.153  | -2.3# | 76    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.027 | -1.0  | 74    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.166  | -0.3  | 74    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.364  | -4.7  | 75    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.432  | -2.9  | 79    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 75    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.785  | -7.6  | 76    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 55.824  | -11.6 | 81    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.067  | -2.1  | 80    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 55.302  | -10.6 | 84    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.247  | -0.5  | 76    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.403  | -6.8  | 77    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.011  | -4.0  | 77    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.645  | -7.3  | 76    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 51.277  | -2.6  | 76    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 52.170  | -4.3  | 77    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.774  | -5.5  | 77    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.372  | -6.7  | 75    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.560  | -7.1  | 76    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.949  | -5.9  | 75    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.484  | 1.0   | 75    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.948  | 2.1   | 75    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.605  | -3.2  | 75    | 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) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 51.862 | -3.7  | 78    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.320 | 1.4   | 76    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.768 | -3.5  | 80    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.758 | -1.5  | 74    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 46.809 | 6.4   | 72    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 55.321 | -10.6 | 77    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.551 | -3.1  | 76    | 0.00     |

(#) = Out of Range

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