

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\VX072519\  
 Data File : VX011064.D  
 Acq On : 25 Jul 2019 09:25  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 26 01:30:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071619W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 24 05:39:23 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    | 99    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 50.346  | -0.7   | 100   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.654  | 0.7    | 98    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 50.908  | -1.8#  | 97    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 48.912  | 2.2    | 103   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 50.350  | -0.7   | 100   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 52.869  | -5.7   | 104   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 52.400  | -4.8   | 107   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 54.404  | -8.8   | 110   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 53.118  | -6.2   | 99    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 245.443 | 1.8    | 104   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.168  | -2.3#  | 101   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 223.487 | 10.6   | 91    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 53.932  | -7.9   | 108   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 261.062 | -4.4   | 106   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 293.100 | -17.2  | 118   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 47.885  | 4.2    | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 54.412  | -8.8   | 118   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 55.512  | -11.0  | 114   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 51.670  | -3.3   | 107   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 51.515  | -3.0   | 103   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 54.227  | -8.5   | 111   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 279.151 | -11.7  | 108   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.769  | -5.5   | 109   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 278.332 | -11.3  | 110   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 57.363  | -14.7  | 116   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.513  | -5.0   | 108   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.798  | 2.4    | 102   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 262.934 | -5.2   | 106   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 53.746  | -7.5#  | 112   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 51.220  | -2.4   | 105   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 54.909  | -9.8   | 110   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.078  | 1.8    | 101   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 97    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.930  | 0.1    | 98    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 54.337  | -8.7   | 107   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 54.952  | -9.9   | 104   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 57.849  | -15.7  | 112   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 53.855  | -7.7   | 106   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 54.221  | -8.4   | 107   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 54.526  | -9.1   | 113   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 57.122  | -14.2  | 116   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 56.004  | -12.0  | 110   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 53.961  | -7.9   | 107   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 55.036  | -10.1# | 110   | 0.00     |

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 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jul 26 01:30:52 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071619W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Jul 24 05:39:23 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) |
|-------|-----------------------------|----------|----------|--------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 56.594   | -13.2  | 111   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 60.742   | -21.5# | 117   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 56.385   | -12.8  | 112   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1062.004 | -6.2   | 106   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 48.999   | 2.0    | 95    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 284.038  | -13.6  | 110   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 54.206   | -8.4#  | 107   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 62.392   | -24.8# | 117   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 59.382   | -18.8  | 111   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 56.296   | -12.6  | 112   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 59.422   | -18.8  | 112   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 55.932   | -11.9  | 111   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 205.158  | 17.9   | 78    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 294.265  | -17.7  | 110   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.099   | -10.2  | 116   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 57.237   | -14.5  | 111   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 54.016   | -8.0   | 103   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 99    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 53.609   | -7.2   | 110   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 54.371   | -8.7   | 112   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 59.871   | -19.7  | 115   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 55.918   | -11.8# | 111   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 112.811  | -12.8  | 112   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 56.097   | -12.2  | 111   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 58.879   | -17.8  | 113   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 55.072   | -10.1  | 118   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 103   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.415   | -6.8   | 113   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 55.521   | -11.0  | 112   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.936   | -5.9   | 111   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 56.253   | -12.5  | 116   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.506   | -7.0   | 114   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 55.722   | -11.4  | 115   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 54.568   | -9.1   | 115   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 55.730   | -11.5  | 115   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 53.172   | -6.3   | 118   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 55.807   | -11.6  | 117   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 55.557   | -11.1  | 115   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 55.792   | -11.6  | 115   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 56.264   | -12.5  | 115   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 57.106   | -14.2  | 117   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 55.808   | -11.6  | 117   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 54.530   | -9.1   | 116   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 59.041   | -18.1  | 118   | 0.00     |

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Quant Title : SW846 8260  
QLast Update : Wed Jul 24 05:39:23 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) |
|------|-----------------------------|--------|--------|-------|------|------------|
| 90 T | Hexachloroethane            | 50.000 | 59.841 | -19.7 | 121  | 0.00       |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 54.886 | -9.8  | 115  | 0.00       |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 58.034 | -16.1 | 118  | 0.00       |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 57.617 | -15.2 | 118  | 0.00       |
| 94 T | Hexachlorobutadiene         | 50.000 | 57.010 | -14.0 | 120  | 0.00       |
| 95 T | Naphthalene                 | 50.000 | 57.138 | -14.3 | 114  | 0.00       |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 57.653 | -15.3 | 118  | 0.00       |

(#) = Out of Range

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