

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX061219\  
 Data File : VX010265.D  
 Acq On : 12 Jun 2019 20:51  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 13 03:47:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060719W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 08 02:12:13 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    | 91    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.946  | 0.1    | 84    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.436  | 3.1    | 88    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 58.122  | -16.2# | 106   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 61.764  | -23.5# | 114   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 61.953  | -23.9# | 102   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 57.824  | -15.6  | 107   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 57.361  | -14.7  | 110   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 48.054  | 3.9    | 91    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 45.519  | 9.0    | 81    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 269.161 | -7.7   | 99    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.447  | 5.1#   | 89    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 277.611 | -11.0  | 92    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 45.756  | 8.5    | 86    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 256.978 | -2.8   | 95    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 229.558 | 8.2    | 87    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 42.432  | 15.1   | 82    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 51.885  | -3.8   | 100   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 48.072  | 3.9    | 91    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.265  | 5.5    | 90    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 45.288  | 9.4    | 87    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.879  | 0.2    | 92    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 245.546 | 1.8    | 89    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.703  | 4.6    | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 254.765 | -1.9   | 93    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 40.598  | 18.8   | 76    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.719  | 2.6    | 91    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 47.563  | 4.9    | 90    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 256.830 | -2.7   | 96    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.995  | 2.0#   | 91    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.678  | 4.6    | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 46.592  | 6.8    | 89    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.658  | 0.7    | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 91    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.299  | -4.6   | 97    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.094  | 7.8    | 88    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.628  | 0.7    | 93    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 46.932  | 6.1    | 89    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 44.369  | 11.3   | 85    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 48.705  | 2.6    | 91    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 49.362  | 1.3    | 92    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 46.712  | 6.6    | 88    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 47.940  | 4.1    | 90    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 47.519  | 5.0    | 91    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 48.365  | 3.3#   | 91    | 0.00     |

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Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jun 13 03:47:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X060719W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Jun 08 02:12:13 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   | 46.526   | 6.9  | 91    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 47.580   | 4.8  | 89    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 48.459   | 3.1  | 88    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1013.960 | -1.4 | 96    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.857   | -3.7 | 95    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 261.246  | -4.5 | 94    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 48.328   | 3.3# | 92    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 45.181   | 9.6  | 84    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 45.836   | 8.3  | 86    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.164   | -0.3 | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.061   | 1.9  | 90    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 48.512   | 3.0  | 91    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 242.781  | 2.9  | 88    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 256.420  | -2.6 | 93    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 48.260   | 3.5  | 90    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 48.471   | 3.1  | 91    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.393   | -2.8 | 94    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0  | 91    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.120   | 1.8  | 95    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.773   | 2.5  | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 48.646   | 2.7  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.047   | 3.9# | 90    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 95.911   | 4.1  | 90    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 48.096   | 3.8  | 92    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 49.353   | 1.3  | 92    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 48.289   | 3.4  | 90    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0  | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 46.929   | 6.1  | 92    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 47.562   | 4.9  | 92    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.105   | 5.8  | 93    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 45.786   | 8.4  | 91    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.584   | 4.8  | 94    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 47.046   | 5.9  | 91    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 46.070   | 7.9  | 90    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 46.133   | 7.7  | 91    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 43.349   | 13.3 | 84    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 46.240   | 7.5  | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 46.706   | 6.6  | 92    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 46.755   | 6.5  | 92    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 47.221   | 5.6  | 93    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 47.188   | 5.6  | 92    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.990   | 4.0  | 94    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.056   | 5.9  | 95    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 46.961   | 6.1  | 91    | 0.00     |

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Instrument :  
MSVOA\_X  
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Quant Title : SW846 8260  
QLast Update : Sat Jun 08 02:12:13 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 | 45.134 | 9.7  | 89    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.000 | 4.0  | 95    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 43.789 | 12.4 | 89    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 47.254 | 5.5  | 96    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.453 | 1.1  | 100   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 48.279 | 3.4  | 95    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 48.444 | 3.1  | 98    | 0.00     |

(#) = Out of Range

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