

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX052419\  
 Data File : VX009901.D  
 Acq On : 24 May 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: May 25 01:51:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 07:31:15 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    | 86    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 39.226  | 21.5#  | 68    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.406  | 5.2    | 84    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 46.120  | 7.8#   | 81    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 47.843  | 4.3    | 87    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.606  | 4.8    | 85    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 45.537  | 8.9    | 80    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 46.878  | 6.2    | 84    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 43.024  | 14.0   | 75    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 42.446  | 15.1   | 76    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 271.836 | -8.7   | 96    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 44.909  | 10.2#  | 77    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 211.276 | 15.5   | 75    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.415  | 5.2    | 84    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 244.226 | 2.3    | 88    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 233.090 | 6.8    | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.060  | 7.9    | 79    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 48.638  | 2.7    | 89    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 47.294  | 5.4    | 83    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 44.562  | 10.9   | 81    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.671  | 6.7    | 81    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.522  | 3.0    | 85    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 255.975 | -2.4   | 87    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 46.099  | 7.8    | 82    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 253.475 | -1.4   | 89    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 40.270  | 19.5   | 70    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 46.596  | 6.8    | 83    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 60.435  | -20.9# | 91    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 260.030 | -4.0   | 91    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 46.512  | 7.0#   | 83    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.811  | 6.4    | 81    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 45.931  | 8.1    | 81    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.938  | 0.1    | 85    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 86    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 47.241  | 5.5    | 81    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.051  | 7.9    | 82    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.358  | -2.7   | 91    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 45.592  | 8.8    | 81    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 44.517  | 11.0   | 78    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 46.088  | 7.8    | 82    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.552  | 2.9    | 88    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 47.968  | 4.1    | 87    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.867  | -1.7   | 89    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 47.195  | 5.6    | 85    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 47.028  | 5.9#   | 83    | 0.00     |

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 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 25 01:51:53 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 09 07:31:15 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   | 45.606  | 8.8  | 82    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 47.037  | 5.9  | 83    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.190  | -4.4 | 91    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 925.013 | 7.5  | 84    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 47.994  | 4.0  | 81    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 262.682 | -5.1 | 92    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 46.314  | 7.4# | 82    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 48.659  | 2.7  | 83    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 47.438  | 5.1  | 81    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 45.860  | 8.3  | 81    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.932  | 0.1  | 86    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 47.135  | 5.7  | 84    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 235.045 | 6.0  | 79    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 258.235 | -3.3 | 90    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 47.008  | 6.0  | 81    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 47.140  | 5.7  | 83    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.316  | 1.4  | 84    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0  | 88    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 44.104  | 11.8 | 80    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 46.117  | 7.8  | 83    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 45.912  | 8.2  | 82    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 46.439  | 7.1# | 83    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 93.313  | 6.7  | 82    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 46.193  | 7.6  | 83    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 47.068  | 5.9  | 82    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 47.797  | 4.4  | 84    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0  | 88    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 45.604  | 8.8  | 83    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 50.061  | -0.1 | 88    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 46.420  | 7.2  | 85    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 47.500  | 5.0  | 86    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 45.201  | 9.6  | 83    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 46.444  | 7.1  | 83    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 44.964  | 10.1 | 84    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 46.244  | 7.5  | 84    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 45.944  | 8.1  | 80    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 46.376  | 7.2  | 85    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 45.535  | 8.9  | 83    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 46.364  | 7.3  | 83    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 45.671  | 8.7  | 82    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 46.461  | 7.1  | 82    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 45.766  | 8.5  | 83    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 45.205  | 9.6  | 83    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.451  | 5.1  | 83    | 0.00     |

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ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
LabSampleId :  
VSTDCCC050

Quant Time: May 25 01:51:53 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X042919W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 09 07:31:15 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 | 46.395 | 7.2  | 82    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 44.589 | 10.8 | 81    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.014 | 6.0  | 82    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 46.162 | 7.7  | 81    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 45.473 | 9.1  | 82    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 46.609 | 6.8  | 81    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 46.278 | 7.4  | 82    | 0.00     |

(#) = Out of Range

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