

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121919\  
 Data File : VX014111.D  
 Acq On : 19 Dec 2019 10:34  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 20 01:14:27 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 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   | 106   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.597  | 4.8   | 104   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 46.986  | 6.0   | 102   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 47.659  | 4.7#  | 106   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 43.047  | 13.9  | 99    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.984  | 4.0   | 106   | 0.01     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.026  | 3.9   | 106   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 46.644  | 6.7   | 105   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.324  | 1.4   | 110   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 48.836  | 2.3   | 105   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 208.092 | 16.8  | 96    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 47.842  | 4.3#  | 106   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 280.798 | -12.3 | 129   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.764  | 2.5   | 106   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 239.983 | 4.0   | 106   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 204.376 | 18.2  | 87    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.168  | 7.7   | 101   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 47.638  | 4.7   | 106   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 47.804  | 4.4   | 103   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 44.922  | 10.2  | 105   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 46.241  | 7.5   | 104   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 49.783  | 0.4   | 108   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 257.655 | -3.1  | 110   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.463  | 5.1   | 106   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 229.187 | 8.3   | 98    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.564  | 2.9   | 106   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.238  | 5.5   | 105   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.545  | -1.1  | 106   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 240.167 | 3.9   | 105   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 48.170  | 3.7#  | 105   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.061  | -0.1  | 107   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 47.966  | 4.1   | 105   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 47.077  | 5.8   | 102   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 102   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.966  | 2.1   | 101   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.054  | -0.1  | 106   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.522  | 1.0   | 102   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.317  | -2.6  | 105   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.889  | -3.8  | 110   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.566  | 0.9   | 106   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 51.238  | -2.5  | 109   | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.516  | 1.0   | 106   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 49.691  | 0.6   | 104   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.549  | 2.9   | 107   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 51.038  | -2.1# | 108   | 0.00     |

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

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 20 01:14:27 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 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   | 48.868  | 2.3   | 106   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.361  | -2.7  | 107   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 50.933  | -1.9  | 105   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 940.418 | 6.0   | 102   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.367  | 1.3   | 100   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 245.476 | 1.8   | 103   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.625  | 0.8#  | 106   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.014  | -4.0  | 103   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 52.504  | -5.0  | 105   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 49.741  | 0.5   | 106   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 50.354  | -0.7  | 102   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.935  | 0.1   | 104   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 246.224 | 1.5   | 97    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 238.547 | 4.6   | 97    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.398  | -4.8  | 105   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.255  | -0.5  | 104   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 47.944  | 4.1   | 98    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 102   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.501  | 5.0   | 101   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.101  | 1.8   | 104   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.285  | -0.6  | 104   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.098  | -2.2# | 105   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 100.708 | -0.7  | 104   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 49.981  | 0.0   | 104   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.842  | -1.7  | 103   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 50.878  | -1.8  | 102   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 101   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.321  | -2.6  | 105   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 49.399  | 1.2   | 99    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 48.912  | 2.2   | 101   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 44.427  | 11.1  | 89    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 47.720  | 4.6   | 103   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.710  | -5.4  | 106   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.298  | -0.6  | 103   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.252  | -2.5  | 105   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.007  | -4.0  | 101   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.328  | -0.7  | 105   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.305  | -2.6  | 106   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.690  | -3.4  | 105   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.500  | -5.0  | 107   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.992  | -6.0  | 107   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.214  | 3.6   | 103   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.081  | 3.8   | 105   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.466  | -8.9  | 108   | 0.00     |

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MSVOA\_X  
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VSTDCCC050

Quant Time: Dec 20 01:14:27 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 17 03:01:07 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 | 50.845 | -1.7 | 102   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.462 | 3.1  | 103   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 45.118 | 9.8  | 98    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.109 | -0.2 | 104   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.137 | 1.7  | 105   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 50.325 | -0.7 | 100   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 50.767 | -1.5 | 103   | 0.00     |

(#) = Out of Range

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