

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX052819\  
 Data File : VX009926.D  
 Acq On : 28 May 2019 19:40  
 Operator : JC/SP  
 Sample : VSTDCCC050  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 29 05:14:47 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X052819W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 29 04:00:56 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  | 55.944  | -11.9 | 92    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 51.072  | -2.1  | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.868  | -3.7# | 94    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 47.854  | 4.3   | 95    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 49.481  | 1.0   | 95    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 51.028  | -2.1  | 92    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 47.900  | 4.2   | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.256  | 1.5   | 91    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 49.861  | 0.3   | 93    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 254.375 | -1.8  | 98    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.911  | 0.2#  | 93    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 218.964 | 12.4  | 81    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.700  | -1.4  | 94    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 252.053 | -0.8  | 98    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 239.537 | 4.2   | 92    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 49.674  | 0.7   | 92    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 50.654  | -1.3  | 102   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.044  | -0.1  | 95    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.354  | 3.3   | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.790  | 4.4   | 94    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 51.108  | -2.2  | 95    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 257.302 | -2.9  | 95    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.920  | 0.2   | 94    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 252.833 | -1.1  | 96    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 45.497  | 9.0   | 85    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.733  | 4.5   | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.214  | 3.6   | 95    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 258.935 | -3.6  | 99    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.921  | 0.2#  | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 52.099  | -4.2  | 92    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.027  | -2.1  | 93    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.781  | 0.4   | 98    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 94    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.143  | 1.7   | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.985  | 4.0   | 94    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.800  | -3.6  | 97    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.148  | -0.3  | 93    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.860  | 0.3   | 91    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.856  | 0.3   | 94    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 50.040  | -0.1  | 97    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 48.776  | 2.4   | 95    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.260  | -0.5  | 96    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.284  | 3.4   | 94    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.671  | 0.7#  | 95    | 0.00     |

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 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   | 47.373   | 5.3   | 94    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.596   | -1.2  | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 51.773   | -3.5  | 97    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1016.876 | -1.7  | 97    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.761   | -1.5  | 96    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 261.327  | -4.5  | 98    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.013   | -0.0# | 94    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 49.168   | 1.7   | 91    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.430   | 1.1   | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.942   | 2.1   | 94    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.481   | -5.0  | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.412   | 1.2   | 95    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 256.037  | -2.4  | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 263.346  | -5.3  | 96    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.044   | -0.1  | 92    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 49.559   | 0.9   | 95    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 51.846   | -3.7  | 96    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 93    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 49.498   | 1.0   | 93    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.332   | 3.3   | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.574   | -1.1  | 94    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.072   | -2.1# | 95    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.847  | -1.8  | 94    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.249   | -2.5  | 94    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.777   | -3.6  | 95    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 52.136   | -4.3  | 94    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 93    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.112   | -0.2  | 93    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.225   | -6.5  | 97    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.282   | -0.6  | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 50.292   | -0.6  | 95    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 48.563   | 2.9   | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.074   | -2.1  | 94    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.693   | 0.6   | 94    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.175   | -2.3  | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.611   | 2.8   | 90    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.917   | 0.2   | 95    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 50.679   | -1.4  | 94    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.457   | -0.9  | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.597   | -1.2  | 93    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.800   | -3.6  | 93    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.760   | 2.5   | 94    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.703   | 4.6   | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.123   | -2.2  | 92    | 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 | 51.858 | -3.7 | 94    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.537 | 0.9  | 95    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 49.278 | 1.4  | 96    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 48.622 | 2.8  | 92    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.314 | 1.4  | 93    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 50.494 | -1.0 | 95    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 48.687 | 2.6  | 94    | 0.00     |

(#) = Out of Range

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