

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW090719\  
 Data File : VW012717.D  
 Acq On : 07 Sep 2019 13:39  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Sep 08 05:23:14 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W090719S.M  
 Quant Title : SW846 8260  
 QLast Update : Sun Sep 08 05:04:40 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   | 90    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 53.135  | -6.3  | 96    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 48.085  | 3.8   | 88    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.759  | -3.5# | 92    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 53.178  | -6.4  | 91    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 49.976  | 0.0   | 87    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.072  | 1.9   | 84    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 54.194  | -8.4  | 95    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 53.082  | -6.2  | 91    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 50.716  | -1.4  | 87    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 259.921 | -4.0  | 91    | 0.04     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.824  | -3.6# | 92    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 238.324 | 4.7   | 92    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 53.245  | -6.5  | 92    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 265.884 | -6.4  | 90    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 269.063 | -7.6  | 89    | 0.01     |
| 17 T  | Carbon Disulfide            | 50.000  | 51.405  | -2.8  | 91    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 51.174  | -2.3  | 92    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.179  | -6.4  | 88    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 48.356  | 3.3   | 88    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 52.462  | -4.9  | 90    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.859  | -5.7  | 88    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 276.719 | -10.7 | 91    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 53.244  | -6.5  | 90    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 243.652 | 2.5   | 91    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 53.179  | -6.4  | 88    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.971  | -5.9  | 89    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 54.713  | -9.4  | 94    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 265.897 | -6.4  | 91    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 51.852  | -3.7# | 89    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.861  | 2.3   | 90    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 52.048  | -4.1  | 88    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 52.611  | -5.2  | 93    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 90    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 49.880  | 0.2   | 89    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.013  | -4.0  | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.426  | -2.9  | 90    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 53.314  | -6.6  | 90    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.595  | -3.2  | 90    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.255  | -4.5  | 89    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 46.940  | 6.1   | 88    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 51.126  | -2.3  | 89    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.866  | -3.7  | 89    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.077  | -4.2  | 91    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.921  | -5.8# | 94    | 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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 52.353   | -4.7  | 92    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.848   | -5.7  | 89    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.463   | -4.9  | 93    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1065.512 | -6.6  | 100   | 0.03     |
| 50 S  | Toluene-d8                  | 50.000   | 53.371   | -6.7  | 92    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 263.000  | -5.2  | 90    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.718   | -5.4# | 90    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.202   | -6.4  | 90    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.465   | -6.9  | 90    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 52.261   | -4.5  | 90    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.822   | -3.6  | 89    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 52.129   | -4.3  | 91    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 258.571  | -3.4  | 90    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 262.077  | -4.8  | 90    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.155   | -4.3  | 89    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 53.003   | -6.0  | 90    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.686   | -1.4  | 91    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 89    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.550   | -5.1  | 90    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 52.312   | -4.6  | 89    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.716   | -3.4  | 86    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 51.213   | -2.4# | 85    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 103.553  | -3.6  | 90    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 54.002   | -8.0  | 89    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.369   | -8.7  | 89    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.105   | -6.2  | 89    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 88    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.454   | -6.9  | 89    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.374   | -6.7  | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 50.173   | -0.3  | 88    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 59.155   | -18.3 | 108   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.353   | -4.7  | 90    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.390   | -6.8  | 89    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.451   | -4.9  | 88    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.969   | -5.9  | 88    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 53.359   | -6.7  | 90    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 52.699   | -5.4  | 90    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.281   | -6.6  | 89    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.047   | -4.1  | 89    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.577   | -5.2  | 87    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.454   | -4.9  | 87    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.327   | -2.7  | 88    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.041   | -2.1  | 88    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.908   | -5.8  | 89    | 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 | 53.444 | -6.9  | 89    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.755 | -3.5  | 90    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.200 | -2.4  | 93    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 54.014 | -8.0  | 89    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.595 | 0.8   | 82    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 49.367 | 1.3   | 89    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 55.027 | -10.1 | 88    | 0.00     |

(#) = Out of Range

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