

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW051219\  
 Data File : VW010398.D  
 Acq On : 12 May 2019 10:04  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 13 05:28:57 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W050919S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 10 03:41:21 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    | 100   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 50.472  | -0.9   | 103   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.448  | 5.1    | 101   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.616  | -3.2#  | 107   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 50.076  | -0.2   | 105   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 53.667  | -7.3   | 109   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.488  | 5.0    | 97    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.392  | -6.8   | 110   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 53.922  | -7.8   | 113   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 53.064  | -6.1   | 110   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 183.094 | 26.8#  | 74    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 53.067  | -6.1#  | 110   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 233.903 | 6.4    | 91    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 56.378  | -12.8  | 114   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 209.711 | 16.1   | 84    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 229.594 | 8.2    | 85    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 51.045  | -2.1   | 105   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 39.563  | 20.9#  | 81    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.121  | -4.2   | 102   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 51.615  | -3.2   | 113   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 54.337  | -8.7   | 110   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 59.235  | -18.5  | 116   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 263.757 | -5.5   | 101   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 55.680  | -11.4  | 114   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 207.025 | 17.2   | 80    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 57.157  | -14.3  | 116   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 55.957  | -11.9  | 112   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.600  | -1.2   | 105   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 201.843 | 19.3   | 78    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 56.804  | -13.6# | 116   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 52.015  | -4.0   | 109   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 55.354  | -10.7  | 113   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.164  | 1.7    | 97    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 100   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.150  | -4.3   | 101   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 55.630  | -11.3  | 112   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 42.623  | 14.8   | 83    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 55.763  | -11.5  | 113   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 56.462  | -12.9  | 110   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 55.795  | -11.6  | 113   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 44.622  | 10.8   | 85    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 55.200  | -10.4  | 112   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 45.917  | 8.2    | 90    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 55.524  | -11.0  | 112   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 57.040  | -14.1# | 115   | 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   | 52.160  | -4.3   | 106   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 57.557  | -15.1  | 116   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 47.781  | 4.4    | 90    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 828.667 | 17.1   | 78    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.751  | -3.5   | 98    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 221.496 | 11.4   | 84    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 57.562  | -15.1# | 114   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 57.283  | -14.6  | 111   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 58.260  | -16.5  | 115   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.029  | -6.1   | 108   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.581  | -7.2   | 101   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.729  | -7.5   | 107   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 242.711 | 2.9    | 96    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 229.356 | 8.3    | 85    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.980  | -12.0  | 112   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.407  | -2.8   | 103   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 52.488  | -5.0   | 101   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0    | 100   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 53.738  | -7.5   | 109   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 56.665  | -13.3  | 115   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 57.324  | -14.6  | 116   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 58.919  | -17.8# | 115   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 117.646 | -17.6  | 114   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 59.758  | -19.5  | 115   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 60.393  | -20.8# | 115   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 49.924  | 0.2    | 100   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0    | 102   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 58.827  | -17.7  | 115   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 49.677  | 0.6    | 97    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 45.935  | 8.1    | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 45.259  | 9.5    | 93    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 56.382  | -12.8  | 116   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 58.423  | -16.8  | 115   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 57.505  | -15.0  | 117   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 59.358  | -18.7  | 117   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 45.029  | 9.9    | 90    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 57.547  | -15.1  | 117   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 58.774  | -17.5  | 116   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 59.431  | -18.9  | 117   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 58.563  | -17.1  | 115   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 59.526  | -19.1  | 115   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 57.072  | -14.1  | 117   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 56.162  | -12.3  | 116   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 59.667  | -19.3  | 116   | 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 | 56.443 | -12.9 | 115   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 55.712 | -11.4 | 115   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 40.060 | 19.9  | 83    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 59.110 | -18.2 | 116   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 57.727 | -15.5 | 116   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 45.994 | 8.0   | 96    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 57.212 | -14.4 | 114   | 0.00     |

(#) = Out of Range

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