

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW083119\  
 Data File : VW012388.D  
 Acq On : 31 Aug 2019 09:41  
 Operator : SY/VA  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Aug 31 17:22:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W082319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 26 07:18:31 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    | 88    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 58.879  | -17.8  | 94    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 56.262  | -12.5  | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 56.509  | -13.0# | 93    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.613  | 6.8    | 75    | -0.05    |
| 6 T   | Chloroethane                | 50.000  | 57.212  | -14.4  | 93    | -0.04    |
| 7 T   | Trichlorofluoromethane      | 50.000  | 64.002  | -28.0# | 104   | -0.02    |
| 8 T   | Diethyl Ether               | 50.000  | 51.375  | -2.8   | 85    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 55.746  | -11.5  | 92    | -0.01    |
| 10 T  | Methyl Iodide               | 50.000  | 55.602  | -11.2  | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 277.704 | -11.1  | 93    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 54.339  | -8.7#  | 89    | -0.02    |
| 13 T  | Acrolein                    | 250.000 | 233.010 | 6.8    | 86    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 55.720  | -11.4  | 91    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 267.426 | -7.0   | 90    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 245.756 | 1.7    | 74    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 52.168  | -4.3   | 82    | -0.01    |
| 18 T  | Methyl Acetate              | 50.000  | 50.177  | -0.4   | 86    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 58.358  | -16.7  | 96    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 51.457  | -2.9   | 90    | -0.01    |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 54.192  | -8.4   | 89    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 55.463  | -10.9  | 92    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 274.432 | -9.8   | 88    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 54.877  | -9.8   | 91    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 249.513 | 0.2    | 79    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 56.833  | -13.7  | 96    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 54.240  | -8.5   | 89    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.995  | 2.0    | 90    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 269.436 | -7.8   | 87    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 55.576  | -11.2# | 94    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 51.127  | -2.3   | 88    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 57.803  | -15.6  | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.965  | 2.1    | 85    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 85    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.995  | -2.0   | 86    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 57.217  | -14.4  | 92    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 52.352  | -4.7   | 84    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 59.620  | -19.2  | 96    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 56.436  | -12.9  | 88    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 56.189  | -12.4  | 90    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 56.911  | -13.8  | 91    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 56.820  | -13.6  | 92    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 53.846  | -7.7   | 86    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 56.765  | -13.5  | 92    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 55.250  | -10.5# | 89    | 0.00     |

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 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
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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   | 56.059   | -12.1  | 91    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 57.458   | -14.9  | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 55.004   | -10.0  | 85    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1073.605 | -7.4   | 86    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.579   | -1.2   | 84    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 274.635  | -9.9   | 87    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 56.918   | -13.8# | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 57.847   | -15.7  | 90    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 56.509   | -13.0  | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 55.415   | -10.8  | 90    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 55.653   | -11.3  | 87    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 56.061   | -12.1  | 90    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 275.746  | -10.3  | 95    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 268.760  | -7.5   | 81    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 56.994   | -14.0  | 90    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 55.916   | -11.8  | 89    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.834   | -1.7   | 87    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 87    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 56.434   | -12.9  | 91    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 55.846   | -11.7  | 92    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 56.816   | -13.6  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 57.108   | -14.2# | 93    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 114.066  | -14.1  | 93    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 56.874   | -13.7  | 92    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 57.421   | -14.8  | 92    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 55.112   | -10.2  | 90    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 86    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 57.148   | -14.3  | 93    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 54.978   | -10.0  | 88    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 52.634   | -5.3   | 88    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.140   | -4.3   | 87    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 55.700   | -11.4  | 93    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 57.419   | -14.8  | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 56.424   | -12.8  | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 58.198   | -16.4  | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.255   | -4.5   | 84    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 56.786   | -13.6  | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 58.088   | -16.2  | 95    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 57.389   | -14.8  | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 57.790   | -15.6  | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 58.519   | -17.0  | 95    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 56.154   | -12.3  | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 56.088   | -12.2  | 94    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 59.378   | -18.8  | 96    | 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 | 56.875 | -13.8  | 92    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 56.301 | -12.6  | 93    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.623 | -5.2   | 90    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 58.583 | -17.2  | 94    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 61.215 | -22.4# | 103   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 51.460 | -2.9   | 89    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 58.699 | -17.4  | 94    | 0.00     |

(#) = Out of Range

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