

Data Path : Z:\voasrv\HPCHEM1\MSVOA W\Data\VW102218\  
 Data File : VW006267.D  
 Acq On : 22 Oct 2018 23:45  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA W/SOIL  
 ALS Vial : 29 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 23 05:49:17 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\82W101518S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 18 17:01:24 2018  
 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    | 85    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 50.160  | -0.3   | 82    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.448  | 5.1    | 85    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 51.916  | -3.8#  | 89    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 50.876  | -1.8   | 91    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 52.081  | -4.2   | 90    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.119  | 1.8    | 83    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 55.462  | -10.9  | 91    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 53.215  | -6.4   | 94    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 54.727  | -9.5   | 96    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 246.638 | 1.3    | 93    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 53.458  | -6.9#  | 96    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 216.548 | 13.4   | 80    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 51.996  | -4.0   | 92    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 271.045 | -8.4   | 97    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 253.683 | -1.5   | 95    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 49.378  | 1.2    | 86    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 55.663  | -11.3  | 98    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 54.256  | -8.5   | 96    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 56.009  | -12.0  | 99    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 54.658  | -9.3   | 96    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 54.681  | -9.4   | 96    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 256.869 | -2.7   | 91    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 55.982  | -12.0  | 98    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 253.271 | -1.3   | 94    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.496  | 1.0    | 91    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 56.203  | -12.4  | 99    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 55.980  | -12.0  | 92    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 260.714 | -4.3   | 95    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 56.062  | -12.1# | 99    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 48.696  | 2.6    | 92    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.677  | -7.4   | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.216  | 3.6    | 84    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 86    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.949  | 2.1    | 85    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 54.054  | -8.1   | 97    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 51.221  | -2.4   | 96    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.314  | -4.6   | 93    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 51.615  | -3.2   | 92    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 55.438  | -10.9  | 99    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 49.299  | 1.4    | 87    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 55.633  | -11.3  | 99    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 50.584  | -1.2   | 92    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 55.165  | -10.3  | 98    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 54.963  | -9.9#  | 98    | 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   | 54.793   | -9.6  | 98    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 54.142   | -8.3  | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.490   | -5.0  | 93    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1130.128 | -13.0 | 97    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 48.214   | 3.6   | 84    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 259.027  | -3.6  | 94    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 54.780   | -9.6# | 98    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 52.660   | -5.3  | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.587   | -7.2  | 94    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 55.353   | -10.7 | 99    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 53.097   | -6.2  | 95    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 54.800   | -9.6  | 98    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 261.793  | -4.7  | 97    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 246.469  | 1.4   | 90    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 53.589   | -7.2  | 93    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 55.096   | -10.2 | 97    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.263   | 1.5   | 85    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 86    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 55.163   | -10.3 | 100   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 54.965   | -9.9  | 100   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 54.835   | -9.7  | 97    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 54.213   | -8.4# | 98    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 108.606  | -8.6  | 97    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 54.966   | -9.9  | 98    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 54.927   | -9.9  | 97    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.664   | -3.3  | 90    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 86    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.721   | -7.4  | 97    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 48.992   | 2.0   | 89    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 54.462   | -8.9  | 97    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.567   | 2.9   | 91    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 54.125   | -8.3  | 97    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.641   | -7.3  | 96    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 54.357   | -8.7  | 97    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 53.715   | -7.4  | 96    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.542   | 2.9   | 86    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 54.055   | -8.1  | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.961   | -7.9  | 97    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.120   | -8.2  | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.682   | -7.4  | 96    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.286   | -8.6  | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 54.822   | -9.6  | 99    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 54.257   | -8.5  | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 53.438   | -6.9  | 96    | 0.00     |

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Max. RRF Dev : 20% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 52.507 | -5.0 | 90    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 54.182 | -8.4 | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.020 | 4.0  | 86    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 53.452 | -6.9 | 99    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 53.399 | -6.8 | 98    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 53.194 | -6.4 | 97    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 53.994 | -8.0 | 99    | 0.00     |

(#) = Out of Range

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