

Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF010719\  
 Data File : VF061272.D  
 Acq On : 7 Jan 2019 11:31  
 Operator : VA/AP  
 Sample : VSTDCCC050  
 Misc : 5.00g/5mL/MSVOA-F/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 LabSampleId :  
 VSTDCCC050

Quant Time: Jan 08 00:21:32 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F010319S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 04 03:27:18 2019  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0    | 111   | -0.05    |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 44.854  | 10.3   | 99    | -0.02    |
| 3 P   | Chloromethane               | 50.000  | 44.579  | 10.8   | 103   | -0.03    |
| 4 C   | Vinyl Chloride              | 50.000  | 47.234  | 5.5#   | 100   | -0.02    |
| 5 T   | Bromomethane                | 50.000  | 49.523  | 1.0    | 107   | -0.03    |
| 6 T   | Chloroethane                | 50.000  | 46.259  | 7.5    | 102   | -0.02    |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.171  | 5.7    | 102   | -0.03    |
| 8 T   | Diethyl Ether               | 50.000  | 50.619  | -1.2   | 122   | -0.02    |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 47.205  | 5.6    | 103   | -0.02    |
| 10 T  | Methyl Iodide               | 50.000  | 47.727  | 4.5    | 107   | -0.02    |
| 11 T  | Tert butyl alcohol          | 250.000 | 226.175 | 9.5    | 108   | -0.03    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 46.316  | 7.4#   | 108   | -0.03    |
| 13 T  | Acrolein                    | 250.000 | 246.174 | 1.5    | 125   | -0.03    |
| 14 T  | Allyl chloride              | 50.000  | 57.254  | -14.5  | 119   | -0.02    |
| 15 T  | Acrylonitrile               | 250.000 | 222.167 | 11.1   | 105   | -0.03    |
| 16 T  | Acetone                     | 250.000 | 325.155 | -30.1# | 159   | -0.02    |
| 17 T  | Carbon Disulfide            | 50.000  | 47.969  | 4.1    | 107   | -0.06    |
| 18 T  | Methyl Acetate              | 50.000  | 44.301  | 11.4   | 102   | -0.03    |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 45.132  | 9.7    | 111   | -0.03    |
| 20 T  | Methylene Chloride          | 50.000  | 44.202  | 11.6   | 99    | -0.03    |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 42.513  | 15.0   | 96    | -0.03    |
| 22 T  | Diisopropyl ether           | 50.000  | 45.896  | 8.2    | 105   | -0.04    |
| 23 T  | Vinyl Acetate               | 250.000 | 200.347 | 19.9   | 95    | -0.04    |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 45.911  | 8.2    | 99    | -0.03    |
| 25 T  | 2-Butanone                  | 250.000 | 255.401 | -2.2   | 116   | -0.05    |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 48.214  | 3.6    | 103   | -0.05    |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 45.808  | 8.4    | 104   | -0.04    |
| 28 T  | Bromochloromethane          | 50.000  | 51.704  | -3.4   | 121   | -0.04    |
| 29    | Tetrahydrofuran             | 250.000 | 260.995 | -4.4   | 119   | -0.05    |
| 30 C  | Chloroform                  | 50.000  | 45.550  | 8.9#   | 100   | -0.04    |
| 31 T  | Cyclohexane                 | 50.000  | 45.896  | 8.2    | 100   | -0.05    |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 53.836  | -7.7   | 106   | -0.04    |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.373  | 3.3    | 113   | -0.04    |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 109   | -0.04    |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.158  | -0.3   | 115   | -0.05    |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 46.702  | 6.6    | 97    | -0.04    |
| 37 T  | Ethyl Acetate               | 50.000  | 47.167  | 5.7    | 114   | -0.04    |
| 38 T  | Carbon Tetrachloride        | 50.000  | 54.484  | -9.0   | 112   | -0.04    |
| 39 T  | Methylcyclohexane           | 50.000  | 46.667  | 6.7    | 97    | -0.04    |
| 40 TM | Benzene                     | 50.000  | 42.778  | 14.4   | 92    | -0.04    |
| 41 T  | Methacrylonitrile           | 50.000  | 48.442  | 3.1    | 114   | -0.05    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 46.493  | 7.0    | 106   | -0.04    |
| 43 T  | Isopropyl Acetate           | 50.000  | 47.652  | 4.7    | 116   | -0.03    |
| 44 TM | Trichloroethene             | 50.000  | 43.622  | 12.8   | 100   | -0.04    |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 47.188  | 5.6#   | 99    | -0.04    |

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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 : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.   | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|---------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 46.080  | 7.8   | 105   | -0.04    |
| 47 T  | Bromodichloromethane        | 50.000   | 44.795  | 10.4  | 99    | -0.04    |
| 48 T  | Methyl methacrylate         | 50.000   | 45.596  | 8.8   | 98    | -0.03    |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 877.889 | 12.2  | 97    | -0.04    |
| 50 S  | Toluene-d8                  | 50.000   | 50.791  | -1.6  | 113   | -0.04    |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 259.432 | -3.8  | 115   | -0.04    |
| 52 CM | Toluene                     | 50.000   | 42.682  | 14.6# | 93    | -0.04    |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 44.438  | 11.1  | 100   | -0.04    |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 46.186  | 7.6   | 104   | -0.04    |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 46.636  | 6.7   | 106   | -0.04    |
| 56 T  | Ethyl methacrylate          | 50.000   | 49.918  | 0.2   | 110   | -0.04    |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 40.755  | 18.5  | 92    | -0.04    |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 116.044 | 53.6# | 50    | -0.03    |
| 59 T  | 2-Hexanone                  | 250.000  | 247.938 | 0.8   | 123   | -0.04    |
| 60 T  | Dibromochloromethane        | 50.000   | 47.708  | 4.6   | 108   | -0.03    |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 42.944  | 14.1  | 95    | -0.04    |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.702  | 2.6   | 112   | -0.02    |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 105   | -0.04    |
| 64 T  | Tetrachloroethene           | 50.000   | 49.780  | 0.4   | 101   | -0.04    |
| 65 PM | Chlorobenzene               | 50.000   | 46.692  | 6.6   | 95    | -0.04    |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 47.022  | 6.0   | 97    | -0.04    |
| 67 C  | Ethyl Benzene               | 50.000   | 47.420  | 5.2#  | 94    | -0.03    |
| 68 T  | m/p-Xylenes                 | 100.000  | 92.535  | 7.5   | 99    | -0.04    |
| 69 T  | o-Xylene                    | 50.000   | 48.706  | 2.6   | 96    | -0.04    |
| 70 T  | Styrene                     | 50.000   | 46.221  | 7.6   | 98    | -0.03    |
| 71 P  | Bromoform                   | 50.000   | 51.354  | -2.7  | 108   | -0.03    |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 108   | -0.02    |
| 73 T  | Isopropylbenzene            | 50.000   | 47.600  | 4.8   | 98    | -0.03    |
| 74 T  | N-amyl acetate              | 50.000   | 50.679  | -1.4  | 117   | -0.02    |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.043  | 5.9   | 112   | -0.02    |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 46.633  | 6.7   | 110   | -0.02    |
| 77 T  | Bromobenzene                | 50.000   | 48.851  | 2.3   | 103   | -0.03    |
| 78 T  | n-propylbenzene             | 50.000   | 45.801  | 8.4   | 101   | -0.03    |
| 79 T  | 2-Chlorotoluene             | 50.000   | 45.203  | 9.6   | 98    | -0.03    |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 45.783  | 8.4   | 99    | -0.02    |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 42.645  | 14.7  | 95    | -0.03    |
| 82 T  | 4-Chlorotoluene             | 50.000   | 45.379  | 9.2   | 98    | -0.03    |
| 83 T  | tert-Butylbenzene           | 50.000   | 46.487  | 7.0   | 101   | -0.02    |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 47.920  | 4.2   | 106   | -0.03    |
| 85 T  | sec-Butylbenzene            | 50.000   | 46.226  | 7.5   | 101   | -0.02    |
| 86 T  | p-Isopropyltoluene          | 50.000   | 45.631  | 8.7   | 97    | -0.03    |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 45.321  | 9.4   | 101   | -0.02    |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 46.079  | 7.8   | 98    | -0.03    |
| 89 T  | n-Butylbenzene              | 50.000   | 51.375  | -2.8  | 96    | -0.03    |

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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 : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 47.363 | 5.3  | 99    | -0.02    |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 45.267 | 9.5  | 101   | -0.03    |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.604 | 4.8  | 111   | -0.03    |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 46.659 | 6.7  | 102   | -0.02    |
| 94 T | Hexachlorobutadiene         | 50.000 | 46.864 | 6.3  | 100   | -0.02    |
| 95 T | Naphthalene                 | 50.000 | 48.240 | 3.5  | 109   | -0.02    |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 48.031 | 3.9  | 104   | -0.02    |

(#) = Out of Range

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