

Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF052319\  
 Data File : VF062737.D  
 Acq On : 23 May 2019 20:31  
 Operator : FY/SY  
 Sample : VSTDCCC050  
 Misc : 5.00g/5mL/MSVOA F/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 24 03:31:59 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 17 05:49:09 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   | 104   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 41.756  | 16.5  | 86    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 40.305  | 19.4  | 78    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 43.320  | 13.4# | 81    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 48.196  | 3.6   | 93    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 49.270  | 1.5   | 86    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.908  | 6.2   | 88    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 48.825  | 2.3   | 103   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 44.361  | 11.3  | 85    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 47.962  | 4.1   | 92    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 216.363 | 13.5  | 89    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.912  | 2.2#  | 93    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 171.527 | 31.4# | 64    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 44.438  | 11.1  | 82    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 189.297 | 24.3  | 81    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 207.206 | 17.1  | 77    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 42.948  | 14.1  | 79    | -0.01    |
| 18 T  | Methyl Acetate              | 50.000  | 40.428  | 19.1  | 84    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 46.873  | 6.3   | 89    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 45.686  | 8.6   | 94    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 48.702  | 2.6   | 93    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.524  | 3.0   | 98    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 231.716 | 7.3   | 91    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.357  | 5.3   | 92    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 224.880 | 10.0  | 85    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 46.714  | 6.6   | 90    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.621  | -3.2  | 101   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 40.576  | 18.8  | 91    | 0.00     |
| 29    | Tetrahydrofuran             | 250.000 | 220.976 | 11.6  | 92    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 50.532  | -1.1# | 97    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.530  | 4.9   | 91    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.844  | 2.3   | 92    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 41.367  | 17.3  | 88    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 103   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 43.771  | 12.5  | 91    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 47.864  | 4.3   | 90    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 44.846  | 10.3  | 93    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.165  | 1.7   | 83    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 54.534  | -9.1  | 99    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.077  | -6.2  | 103   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 48.571  | 2.9   | 94    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.603  | -1.2  | 93    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 46.404  | 7.2   | 96    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 53.698  | -7.4  | 102   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.242  | -4.5# | 97    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF052319\  
 Data File : VF062737.D  
 Acq On : 23 May 2019 20:31  
 Operator : FY/SY  
 Sample : VSTDCCC050  
 Misc : 5.00µ/5mL/MSVOA F/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_F  
 LabSampleId :  
 VSTDCCC050

Quant Time: May 24 03:31:59 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 17 05:49:09 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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 52.666   | -5.3  | 101   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.989   | -4.0  | 98    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 51.929   | -3.9  | 99    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1010.471 | -1.0  | 97    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 46.807   | 6.4   | 97    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 246.257  | 1.5   | 104   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 54.955   | -9.9# | 107   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.782   | -7.6  | 101   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.890   | -7.8  | 103   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.878   | -7.8  | 108   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 51.938   | -3.9  | 110   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 54.671   | -9.3  | 107   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 265.481  | -6.2  | 104   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 258.823  | -3.5  | 97    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 56.021   | -12.0 | 106   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 56.841   | -13.7 | 112   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 42.853   | 14.3  | 91    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 104   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.167   | -4.3  | 104   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 54.457   | -8.9  | 105   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.917   | -3.8  | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 53.782   | -7.6# | 107   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 107.971  | -8.0  | 103   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 54.116   | -8.2  | 106   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.807   | -7.6  | 106   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 54.531   | -9.1  | 112   | -0.01    |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.102   | -8.2  | 104   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 57.055   | -14.1 | 105   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.446   | -2.9  | 98    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 51.446   | -2.9  | 97    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.724   | -7.4  | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.674   | -3.3  | 97    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.172   | -6.3  | 101   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.248   | -8.5  | 102   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 54.932   | -9.9  | 101   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 56.065   | -12.1 | 103   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 54.732   | -9.5  | 101   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 54.231   | -8.5  | 102   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.345   | -6.7  | 100   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.084   | -4.2  | 98    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.578   | -3.2  | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.615   | -3.2  | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.640   | -1.3  | 96    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA F\Data\VF052319\  
Data File : VF062737.D  
Acq On : 23 May 2019 20:31  
Operator : FY/SY  
Sample : VSTDCCC050  
Misc : 5.00µ/5mL/MSVOA F/SOIL  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_F  
LabSampleId :  
VSTDCCC050

Quant Time: May 24 03:31:59 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_F\METHODS\82F051619S.M  
Quant Title : SW846 8260  
QLast Update : Fri May 17 05:49:09 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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 54.082 | -8.2 | 96    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 51.167 | -2.3 | 96    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.088 | -2.2 | 97    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.502 | -1.0 | 97    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 51.779 | -3.6 | 97    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 47.301 | 5.4  | 94    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 48.601 | 2.8  | 91    | 0.00     |

(#) = Out of Range

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