

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD101619\  
 Data File : VD063993.D  
 Acq On : 16 Oct 2019 18:07  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 16 18:29:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100219S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 05 03:51:17 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   | 89    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 40.794  | 18.4  | 82    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.181  | 1.6   | 84    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.935  | 2.1#  | 91    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 46.729  | 6.5   | 88    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 47.821  | 4.4   | 91    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 52.388  | -4.8  | 99    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 46.226  | 7.5   | 85    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 42.041  | 15.9  | 81    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 37.528  | 24.9# | 68    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 211.746 | 15.3  | 77    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 40.618  | 18.8# | 77    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 183.276 | 26.7# | 65    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 44.626  | 10.7  | 83    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 248.083 | 0.8   | 91    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 200.900 | 19.6  | 66    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 37.352  | 25.3# | 70    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 50.233  | -0.5  | 95    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 45.192  | 9.6   | 83    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 45.004  | 10.0  | 83    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.607  | 4.8   | 89    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.683  | 2.6   | 89    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 244.758 | 2.1   | 88    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 48.033  | 3.9   | 87    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 235.594 | 5.8   | 81    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 45.335  | 9.3   | 85    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.828  | 4.3   | 89    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 57.320  | -14.6 | 103   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 231.647 | 7.3   | 89    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.203  | 1.6#  | 92    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 53.152  | -6.3  | 92    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.399  | 3.2   | 90    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.521  | -3.0  | 92    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 87    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 51.892  | -3.8  | 92    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.251  | 1.5   | 91    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.447  | 1.1   | 83    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.360  | 1.3   | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.490  | 1.0   | 90    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.680  | 0.6   | 90    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 53.846  | -7.7  | 118   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 47.707  | 4.6   | 86    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 46.153  | 7.7   | 85    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 47.829  | 4.3   | 85    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 48.713  | 2.6#  | 88    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD101619\  
 Data File : VD063993.D  
 Acq On : 16 Oct 2019 18:07  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 16 18:29:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100219S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Oct 05 03:51:17 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) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 50.309   | -0.6  | 89    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 48.943   | 2.1   | 89    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 43.403   | 13.2  | 84    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1065.466 | -6.5  | 92    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 53.390   | -6.8  | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 246.220  | 1.5   | 90    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.645   | -1.3# | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 48.420   | 3.2   | 85    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.050   | 1.9   | 88    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.810   | -3.6  | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 48.803   | 2.4   | 87    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 50.518   | -1.0  | 90    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 266.675  | -6.7  | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 249.205  | 0.3   | 85    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 51.484   | -3.0  | 91    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.165   | -2.3  | 88    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 53.606   | -7.2  | 92    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 92    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.775   | 4.5   | 93    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.279   | 3.4   | 90    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 48.359   | 3.3   | 91    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 47.857   | 4.3#  | 91    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.048   | 1.0   | 92    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 48.847   | 2.3   | 93    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.281   | -0.6  | 92    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 50.822   | -1.6  | 91    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 95    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 45.965   | 8.1   | 92    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 42.283   | 15.4  | 87    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 44.350   | 11.3  | 92    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 43.585   | 12.8  | 85    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 45.863   | 8.3   | 91    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 46.762   | 6.5   | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 45.046   | 9.9   | 90    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 46.984   | 6.0   | 93    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 40.537   | 18.9  | 82    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 44.995   | 10.0  | 90    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 46.729   | 6.5   | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 46.529   | 6.9   | 93    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.166   | 3.7   | 95    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 48.302   | 3.4   | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 48.105   | 3.8   | 96    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 47.636   | 4.7   | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.805   | 4.4   | 96    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD101619\  
Data File : VD063993.D  
Acq On : 16 Oct 2019 18:07  
Operator : VA/SY  
Sample : VSTDCCC050  
Misc : 5.00G/5.00ml/MSVOA D/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
LabSampleId :  
VSTDCCC050

Quant Time: Oct 16 18:29:11 2019  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100219S.M  
Quant Title : SW846 8260  
QLast Update : Sat Oct 05 03:51:17 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) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 47.624 | 4.8  | 93    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 47.704 | 4.6  | 94    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 45.383 | 9.2  | 82    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 47.022 | 6.0  | 94    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 48.364 | 3.3  | 95    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 48.300 | 3.4  | 92    | 0.01     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 47.239 | 5.5  | 93    | 0.01     |

(#) = Out of Range

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