

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD111020\  
 Data File : VD067573.D  
 Acq On : 10 Nov 2020 10:39  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 11 00:12:55 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 00:56:28 2020  
 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   | 96    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 50.133  | -0.3  | 95    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 42.555  | 14.9  | 92    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 43.971  | 12.1# | 89    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 42.920  | 14.2  | 88    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 45.355  | 9.3   | 89    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 48.560  | 2.9   | 98    | -0.01    |
| 8 T   | Diethyl Ether               | 50.000  | 46.665  | 6.7   | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.291  | 1.4   | 99    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 48.925  | 2.2   | 88    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 303.845 | -21.5 | 116   | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 48.794  | 2.4#  | 99    | -0.01    |
| 13 T  | Acrolein                    | 250.000 | 255.661 | -2.3  | 99    | -0.01    |
| 14 T  | Allyl chloride              | 50.000  | 47.450  | 5.1   | 92    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 236.474 | 5.4   | 92    | -0.01    |
| 16 T  | Acetone                     | 250.000 | 270.309 | -8.1  | 94    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 46.150  | 7.7   | 92    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 46.941  | 6.1   | 101   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.131  | -0.3  | 96    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 45.435  | 9.1   | 95    | -0.01    |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.183  | 5.6   | 94    | -0.01    |
| 22 T  | Diisopropyl ether           | 50.000  | 49.001  | 2.0   | 94    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 255.227 | -2.1  | 94    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 47.714  | 4.6   | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 246.557 | 1.4   | 96    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 50.798  | -1.6  | 100   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 48.701  | 2.6   | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 48.269  | 3.5   | 92    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 253.152 | -1.3  | 96    | -0.01    |
| 30 C  | Chloroform                  | 50.000  | 48.679  | 2.6#  | 96    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.675  | 8.7   | 93    | -0.01    |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 48.744  | 2.5   | 98    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 43.737  | 12.5  | 94    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 92    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.869  | 2.3   | 95    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.623  | -5.2  | 98    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 53.740  | -7.5  | 94    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 53.987  | -8.0  | 101   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 54.582  | -9.2  | 95    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.829  | -3.7  | 96    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 53.709  | -7.4  | 109   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.719  | 0.6   | 93    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.794  | -3.6  | 96    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.234  | -2.5  | 97    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.013  | -4.0# | 98    | 0.00     |

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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   | 49.642   | 0.7   | 91    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 51.518   | -3.0  | 95    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 48.355   | 3.3   | 85    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1084.385 | -8.4  | 99    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 47.979   | 4.0   | 94    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 269.664  | -7.9  | 97    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.236   | -6.5# | 97    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.634   | -3.3  | 94    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 51.961   | -3.9  | 96    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 51.954   | -3.9  | 95    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 54.441   | -8.9  | 97    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 51.658   | -3.3  | 94    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 270.313  | -8.1  | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 276.386  | -10.6 | 95    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 52.665   | -5.3  | 96    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 51.056   | -2.1  | 96    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.409   | 1.2   | 97    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 92    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.943   | -1.9  | 95    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.773   | -3.5  | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.775   | -5.5  | 99    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 54.136   | -8.3# | 98    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 105.897  | -5.9  | 96    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.925   | -7.8  | 97    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.214   | -6.4  | 96    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.871   | -3.7  | 96    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 94    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 54.414   | -8.8  | 97    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 53.964   | -7.9  | 98    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.380   | -2.8  | 98    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 54.868   | -9.7  | 110   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.416   | -2.8  | 96    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 54.125   | -8.3  | 97    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 53.514   | -7.0  | 97    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.554   | -9.1  | 97    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 50.497   | -1.0  | 99    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.632   | -3.3  | 95    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.800   | -7.6  | 96    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.782   | -7.6  | 96    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 54.795   | -9.6  | 96    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.487   | -7.0  | 96    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.905   | -3.8  | 97    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 50.903   | -1.8  | 97    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.826   | -9.7  | 95    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 53.954 | -7.9  | 99    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.858 | -1.7  | 95    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 53.147 | -6.3  | 102   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 53.182 | -6.4  | 97    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 52.233 | -4.5  | 98    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 55.579 | -11.2 | 96    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 53.915 | -7.8  | 97    | 0.00     |

(#) = Out of Range

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