

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD021720\  
 Data File : VD065210.D  
 Acq On : 17 Feb 2020 21:30  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Feb 18 04:10:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D020520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 05 15:53:00 2020  
 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    | 71    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 45.752  | 8.5    | 62    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 51.258  | -2.5   | 74    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 47.971  | 4.1#   | 67    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 44.781  | 10.4   | 65    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.938  | 2.1    | 68    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 47.866  | 4.3    | 66    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.257  | -6.5   | 76    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.134  | 1.7    | 68    | -0.01    |
| 10 T  | Methyl Iodide               | 50.000  | 46.992  | 6.0    | 63    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 260.142 | -4.1   | 80    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.356  | 1.3#   | 70    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 154.875 | 38.0#  | 46    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 49.505  | 1.0    | 69    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 294.869 | -17.9  | 86    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 223.026 | 10.8   | 65    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.364  | 3.3    | 67    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 59.332  | -18.7  | 89    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 53.408  | -6.8   | 76    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 57.273  | -14.5  | 78    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 51.664  | -3.3   | 74    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 56.024  | -12.0  | 79    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 284.662 | -13.9  | 79    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 52.956  | -5.9   | 76    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 274.751 | -9.9   | 81    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.623  | 4.8    | 65    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 52.658  | -5.3   | 74    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 61.319  | -22.6# | 89    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 297.755 | -19.1  | 87    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 54.508  | -9.0#  | 77    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.646  | 8.7    | 66    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.259  | -0.5   | 70    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 57.156  | -14.3  | 78    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 73    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 58.050  | -16.1  | 79    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.823  | 0.4    | 70    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 55.686  | -11.4  | 84    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.513  | 1.0    | 70    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 47.335  | 5.3    | 65    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.020  | -6.0   | 76    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 57.748  | -15.5  | 84    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 53.060  | -6.1   | 76    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 53.993  | -8.0   | 79    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 49.313  | 1.4    | 71    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 57.159  | -14.3# | 81    | 0.00     |

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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 : 20% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.    | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 56.227   | -12.5 | 82    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 55.515   | -11.0 | 80    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 54.988   | -10.0 | 81    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1134.395 | -13.4 | 83    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 55.184   | -10.4 | 75    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 292.778  | -17.1 | 85    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 53.258   | -6.5# | 75    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 53.744   | -7.5  | 76    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.546   | -7.1  | 76    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 58.039   | -16.1 | 85    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 56.829   | -13.7 | 80    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 56.537   | -13.1 | 82    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 265.388  | -6.2  | 63    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 284.242  | -13.7 | 81    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 57.493   | -15.0 | 82    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 55.924   | -11.8 | 81    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 56.645   | -13.3 | 77    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 78    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 47.221   | 5.6   | 71    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 50.697   | -1.4  | 77    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.855   | -3.7  | 77    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.104   | 1.8#  | 73    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 100.136  | -0.1  | 74    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.598   | -1.2  | 75    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 51.851   | -3.7  | 76    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.873   | -7.7  | 83    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 79    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 47.588   | 4.8   | 72    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 51.860   | -3.7  | 80    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 55.690   | -11.4 | 88    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.488   | -5.0  | 80    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.753   | 0.5   | 78    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.261   | 1.5   | 75    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 48.661   | 2.7   | 75    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 48.674   | 2.7   | 75    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 51.950   | -3.9  | 80    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 49.327   | 1.3   | 76    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 46.888   | 6.2   | 73    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 49.219   | 1.6   | 75    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.237   | 3.5   | 72    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 48.783   | 2.4   | 73    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.979   | 0.0   | 78    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.412   | 1.2   | 78    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 47.934   | 4.1   | 72    | 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 | 50.739 | -1.5 | 77    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.981 | -2.0 | 80    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.887 | -1.8 | 81    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 47.483 | 5.0  | 74    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 44.963 | 10.1 | 70    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 50.409 | -0.8 | 80    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 48.832 | 2.3  | 78    | 0.00     |

(#) = Out of Range

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