

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD111119\  
 Data File : VD064193.D  
 Acq On : 11 Nov 2019 22:32  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Nov 12 04:10:23 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110819S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 12 02:43:24 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    | 67    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.486  | 5.0    | 61    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 59.198  | -18.4  | 78    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 58.409  | -16.8# | 74    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 59.057  | -18.1  | 75    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 61.570  | -23.1# | 78    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 56.114  | -12.2  | 71    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 58.877  | -17.8  | 76    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.938  | 0.1    | 65    | -0.01    |
| 10 T  | Methyl Iodide               | 50.000  | 49.927  | 0.1    | 62    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 306.458 | -22.6# | 77    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 53.829  | -7.7#  | 69    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 316.090 | -26.4# | 70    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 55.487  | -11.0  | 70    | -0.01    |
| 15 T  | Acrylonitrile               | 250.000 | 301.707 | -20.7# | 78    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 267.778 | -7.1   | 66    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 53.946  | -7.9   | 68    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 64.359  | -28.7# | 86    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 60.258  | -20.5# | 77    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 52.333  | -4.7   | 72    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 55.848  | -11.7  | 72    | -0.01    |
| 22 T  | Diisopropyl ether           | 50.000  | 59.279  | -18.6  | 76    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 297.304 | -18.9  | 73    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 57.495  | -15.0  | 73    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 295.859 | -18.3  | 75    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.402  | 1.2    | 64    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 58.662  | -17.3  | 76    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 64.545  | -29.1# | 78    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 317.086 | -26.8# | 81    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 59.449  | -18.9# | 76    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.696  | 4.6    | 65    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 54.526  | -9.1   | 70    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 55.689  | -11.4  | 67    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 71    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.841  | -1.7   | 66    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.959  | 0.1    | 68    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 56.290  | -12.6  | 78    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 49.439  | 1.1    | 67    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 46.413  | 7.2    | 64    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 53.034  | -6.1   | 72    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 52.607  | -5.2   | 69    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 55.975  | -12.0  | 77    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 56.796  | -13.6  | 78    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 51.459  | -2.9   | 70    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 54.554  | -9.1#  | 75    | 0.00     |

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 ALS Vial : 21 Sample Multiplier: 1

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 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

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 Quant Title : SW846 8260  
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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   | 55.078   | -10.2  | 75    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 55.737   | -11.5  | 76    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 54.066   | -8.1   | 76    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1192.936 | -19.3  | 85    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 49.537   | 0.9    | 64    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 288.206  | -15.3  | 80    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.711   | -5.4#  | 72    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 54.045   | -8.1   | 74    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 53.819   | -7.6   | 73    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 57.999   | -16.0  | 79    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 56.502   | -13.0  | 77    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 56.348   | -12.7  | 77    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 283.868  | -13.5  | 78    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 278.985  | -11.6  | 76    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 55.700   | -11.4  | 77    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 56.448   | -12.9  | 77    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.095   | -0.2   | 66    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 73    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 52.412   | -4.8   | 73    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.874   | -3.7   | 73    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 52.983   | -6.0   | 75    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 57.428   | -14.9# | 81    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 104.268  | -4.3   | 73    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.389   | -6.8   | 75    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.364   | -4.7   | 73    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 56.049   | -12.1  | 78    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 73    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.548   | -1.1   | 71    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 54.458   | -8.9   | 78    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 55.326   | -10.7  | 79    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 50.365   | -0.7   | 71    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.693   | -5.4   | 74    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 49.703   | 0.6    | 70    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.368   | -2.7   | 72    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.963   | -1.9   | 72    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 52.223   | -4.4   | 74    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 52.195   | -4.4   | 74    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 48.999   | 2.0    | 69    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.183   | -4.4   | 74    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.680   | 2.6    | 68    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 48.098   | 3.8    | 68    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 52.485   | -5.0   | 75    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.793   | -5.6   | 73    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 48.091   | 3.8    | 67    | 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) |
|------|-----------------------------|--------|--------|--------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 50.473 | -0.9   | 72    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 53.745 | -7.5   | 75    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 55.611 | -11.2  | 82    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 51.558 | -3.1   | 72    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 47.194 | 5.6    | 66    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 66.514 | -33.0# | 94    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 53.293 | -6.6   | 75    | 0.00     |

(#) = Out of Range

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