

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD030220\  
 Data File : VD065382.D  
 Acq On : 02 Mar 2020 16:53  
 Operator : VA/SY  
 Sample : VSTDCCC050  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 LabSampleId :  
 VSTDCCC050

Quant Time: Mar 02 17:24:09 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D021820S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 19 03:26:54 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   | 84    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.121  | 1.8   | 84    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 45.388  | 9.2   | 83    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 44.713  | 10.6# | 79    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 45.603  | 8.8   | 87    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 45.607  | 8.8   | 81    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.757  | 0.5   | 90    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 51.340  | -2.7  | 92    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.796  | -1.6  | 92    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 51.625  | -3.3  | 82    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 236.033 | 5.6   | 87    | -0.02    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.085  | 1.8#  | 87    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 242.720 | 2.9   | 93    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 48.479  | 3.0   | 85    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 260.741 | -4.3  | 91    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 215.832 | 13.7  | 69    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 45.622  | 8.8   | 81    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 49.378  | 1.2   | 89    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.932  | -5.9  | 89    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 56.776  | -13.6 | 96    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.798  | 0.4   | 88    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 52.438  | -4.9  | 89    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 267.376 | -7.0  | 86    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.830  | 0.3   | 89    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 236.012 | 5.6   | 78    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.160  | 1.7   | 90    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 51.217  | -2.4  | 90    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 50.592  | -1.2  | 94    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 262.752 | -5.1  | 87    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 51.003  | -2.0# | 92    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 46.452  | 7.1   | 85    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.305  | -0.6  | 91    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 48.314  | 3.4   | 83    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 83    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.374  | -4.7  | 88    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 50.450  | -0.9  | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 50.115  | -0.2  | 89    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.713  | -1.4  | 90    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.714  | -5.4  | 88    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 52.433  | -4.9  | 92    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 51.570  | -3.1  | 93    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.046  | -0.1  | 88    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 51.741  | -3.5  | 86    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 52.205  | -4.4  | 92    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 52.700  | -5.4# | 92    | 0.00     |

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 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
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 LabSampleId :  
 VSTDCCC050

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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   | 52.873   | -5.7  | 91    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 52.007   | -4.0  | 91    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 53.594   | -7.2  | 86    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1048.359 | -4.8  | 88    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.941   | -3.9  | 85    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 267.385  | -7.0  | 87    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 54.256   | -8.5# | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 54.372   | -8.7  | 92    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.327   | -8.7  | 92    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 53.624   | -7.2  | 93    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 56.623   | -13.2 | 91    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 53.296   | -6.6  | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 248.164  | 0.7   | 92    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 263.893  | -5.6  | 81    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 54.530   | -9.1  | 94    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.507   | -9.0  | 93    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 53.746   | -7.5  | 89    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 86    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.960   | -1.9  | 93    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.409   | -2.8  | 93    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.816   | -3.6  | 94    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 52.081   | -4.2# | 92    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 106.243  | -6.2  | 92    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 53.890   | -7.8  | 92    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 53.824   | -7.6  | 92    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 52.740   | -5.5  | 95    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 88    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 53.846   | -7.7  | 94    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 52.277   | -4.6  | 88    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.186   | -2.4  | 93    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 48.409   | 3.2   | 93    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 53.108   | -6.2  | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 53.380   | -6.8  | 93    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.199   | -4.4  | 93    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 54.190   | -8.4  | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 48.920   | 2.2   | 86    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 52.195   | -4.4  | 94    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.432   | -6.9  | 93    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 53.856   | -7.7  | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 53.314   | -6.6  | 94    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 54.060   | -8.1  | 94    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 52.127   | -4.3  | 95    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 51.998   | -4.0  | 95    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 54.239   | -8.5  | 95    | 0.00     |

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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) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 51.732 | -3.5  | 96    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 52.170 | -4.3  | 95    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 51.085 | -2.2  | 92    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 55.887 | -11.8 | 98    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 53.515 | -7.0  | 100   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 57.564 | -15.1 | 96    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 56.011 | -12.0 | 99    | 0.00     |

(#) = Out of Range

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