

Data Path : Z:\voasrv\HPCHEM1\MSVOA D\Data\VD122719\  
 Data File : VD064634.D  
 Acq On : 27 Dec 2019 09:53  
 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: Dec 30 01:09:07 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D122419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 24 13:19:06 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   | 96    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 49.595  | 0.8   | 94    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 47.338  | 5.3   | 91    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 48.824  | 2.4#  | 95    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 45.508  | 9.0   | 91    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 49.097  | 1.8   | 92    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.767  | 0.5   | 95    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 43.718  | 12.6  | 84    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 50.447  | -0.9  | 95    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 51.757  | -3.5  | 90    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 206.568 | 17.4  | 73    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 49.446  | 1.1#  | 94    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 227.052 | 9.2   | 84    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 47.811  | 4.4   | 91    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 224.823 | 10.1  | 84    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 284.126 | -13.7 | 109   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.958  | 2.1   | 94    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 43.408  | 13.2  | 84    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 45.859  | 8.3   | 85    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 49.326  | 1.3   | 89    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 49.172  | 1.7   | 95    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 47.218  | 5.6   | 88    | -0.01    |
| 23 T  | Vinyl Acetate               | 250.000 | 237.507 | 5.0   | 85    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.265  | 1.5   | 93    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 244.935 | 2.0   | 91    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.454  | 1.1   | 95    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 47.721  | 4.6   | 90    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 49.998  | 0.0   | 88    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 223.157 | 10.7  | 82    | -0.01    |
| 30 C  | Chloroform                  | 50.000  | 48.331  | 3.3#  | 92    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.337  | 5.3   | 95    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.780  | 0.4   | 95    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 47.386  | 5.2   | 89    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 91    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.200  | -0.4  | 88    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 52.046  | -4.1  | 95    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 46.213  | 7.6   | 81    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 52.946  | -5.9  | 95    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.827  | -5.7  | 94    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 50.898  | -1.8  | 93    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 54.213  | -8.4  | 90    | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 50.091  | -0.2  | 91    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 46.658  | 6.7   | 83    | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 50.861  | -1.7  | 93    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 50.263  | -0.5# | 91    | 0.00     |

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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   | 48.832  | 2.3   | 87    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.368  | 1.3   | 89    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 49.415  | 1.2   | 84    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 903.708 | 9.6   | 83    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 52.496  | -5.0  | 93    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 235.472 | 5.8   | 84    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 50.588  | -1.2# | 91    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 49.296  | 1.4   | 87    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.089  | -0.2  | 89    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 47.350  | 5.3   | 86    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 47.534  | 4.9   | 83    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 48.045  | 3.9   | 86    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 225.537 | 9.8   | 86    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 256.583 | -2.6  | 88    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 47.968  | 4.1   | 86    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 47.772  | 4.5   | 86    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.944  | -1.9  | 89    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000  | 0.0   | 92    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 50.417  | -0.8  | 92    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.675  | 0.7   | 88    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.043  | -2.1  | 92    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.954  | -1.9# | 91    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 101.731 | -1.7  | 90    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.265  | -0.5  | 89    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.751  | -1.5  | 90    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 47.939  | 4.1   | 85    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000  | 0.0   | 91    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 52.489  | -5.0  | 92    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 46.567  | 6.9   | 80    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 47.579  | 4.8   | 84    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 42.989  | 14.0  | 89    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 49.351  | 1.3   | 87    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.904  | -3.8  | 91    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 50.259  | -0.5  | 89    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.963  | -3.9  | 90    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 49.056  | 1.9   | 87    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.192  | -0.4  | 89    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 51.876  | -3.8  | 90    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.412  | -2.8  | 90    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.381  | -4.8  | 92    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.078  | -4.2  | 90    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.667  | 0.7   | 89    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.940  | 2.1   | 86    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.483  | -5.0  | 92    | 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 | 50.800 | -1.6 | 90    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 48.499 | 3.0  | 86    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 45.079 | 9.8  | 82    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 46.307 | 7.4  | 81    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 48.969 | 2.1  | 87    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 46.177 | 7.6  | 78    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 46.432 | 7.1  | 81    | 0.00     |

(#) = Out of Range

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