

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv122319\  
 Data File : VY001034.D  
 Acq On : 23 Dec 2019 17:22  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.89G/5ML/MSVOA Y/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Dec 24 05:38:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y122319S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 23 12:07:44 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    | 78    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 54.383  | -8.8   | 91    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 52.504  | -5.0   | 90    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 53.232  | -6.5#  | 90    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 55.868  | -11.7  | 93    | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 55.227  | -10.5  | 92    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 52.847  | -5.7   | 91    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 55.646  | -11.3  | 94    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 55.307  | -10.6  | 94    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 51.163  | -2.3   | 84    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 284.204 | -13.7  | 98    | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 53.769  | -7.5#  | 91    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 292.247 | -16.9  | 89    | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 57.905  | -15.8  | 97    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 301.026 | -20.4# | 99    | 0.00     |
| 16 T  | Acetone                     | 250.000 | 280.901 | -12.4  | 101   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 48.261  | 3.5    | 80    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 61.534  | -23.1# | 109   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 58.268  | -16.5  | 96    | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 55.325  | -10.7  | 99    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 54.608  | -9.2   | 91    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 60.866  | -21.7# | 102   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 301.346 | -20.5# | 99    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 57.085  | -14.2  | 96    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 304.882 | -22.0# | 104   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 55.265  | -10.5  | 94    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 57.458  | -14.9  | 96    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 56.275  | -12.5  | 87    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 299.975 | -20.0  | 103   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 58.633  | -17.3# | 99    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 50.293  | -0.6   | 89    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 55.724  | -11.4  | 94    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 55.247  | -10.5  | 90    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 81    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 52.291  | -4.6   | 90    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 53.477  | -7.0   | 93    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 56.635  | -13.3  | 99    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 54.226  | -8.5   | 93    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 52.563  | -5.1   | 90    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 54.897  | -9.8   | 95    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 56.108  | -12.2  | 88    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 56.876  | -13.8  | 96    | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 58.620  | -17.2  | 101   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 54.748  | -9.5   | 95    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 56.455  | -12.9# | 97    | 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   | 57.982   | -16.0  | 97    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 56.811   | -13.6  | 96    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 59.080   | -18.2  | 99    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1192.941 | -19.3  | 101   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 54.099   | -8.2   | 86    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 300.909  | -20.4# | 103   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 55.583   | -11.2# | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 58.673   | -17.3  | 98    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 57.390   | -14.8  | 98    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 58.897   | -17.8  | 101   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 59.972   | -19.9  | 100   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 58.028   | -16.1  | 99    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 300.023  | -20.0# | 115   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 299.329  | -19.7  | 102   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 59.977   | -20.0  | 100   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 58.103   | -16.2  | 98    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.620   | -1.2   | 89    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 83    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 54.045   | -8.1   | 97    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 53.896   | -7.8   | 96    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 56.875   | -13.8  | 98    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 55.164   | -10.3# | 97    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 109.547  | -9.5   | 97    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 55.731   | -11.5  | 98    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 56.201   | -12.4  | 97    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 59.041   | -18.1  | 99    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 87    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.981   | -4.0   | 96    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 55.481   | -11.0  | 100   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 55.138   | -10.3  | 102   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 53.307   | -6.6   | 97    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 52.302   | -4.6   | 98    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 52.145   | -4.3   | 98    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 52.149   | -4.3   | 98    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 52.625   | -5.3   | 97    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 55.860   | -11.7  | 100   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 52.349   | -4.7   | 97    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 53.181   | -6.4   | 100   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 52.314   | -4.6   | 97    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 52.673   | -5.3   | 98    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 53.226   | -6.5   | 98    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 53.091   | -6.2   | 99    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.565   | -5.1   | 98    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.690   | -5.4   | 97    | 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 | 53.390 | -6.8 | 96    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 52.356 | -4.7 | 97    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 54.339 | -8.7 | 100   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 53.016 | -6.0 | 98    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 53.728 | -7.5 | 99    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 53.618 | -7.2 | 99    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 53.613 | -7.2 | 99    | 0.00     |

(#) = Out of Range

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