

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv102819\  
 Data File : VY000447.D  
 Acq On : 28 Oct 2019 11:48  
 Operator : SY/MD  
 Sample : VSTDCCC050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 LabSampleId :  
 VSTDCCC050

Quant Time: Oct 29 10:06:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y101119S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 17 02:03:07 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  | 37.939  | 24.1#  | 61    | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 57.251  | -14.5  | 96    | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 42.661  | 14.7#  | 70    | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 71.103  | -42.2# | 129   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 44.639  | 10.7   | 72    | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 46.631  | 6.7    | 75    | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 51.309  | -2.6   | 84    | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.356  | 1.3    | 79    | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 51.835  | -3.7   | 79    | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 320.284 | -28.1# | 99    | -0.01    |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 45.936  | 8.1#   | 73    | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 174.891 | 30.0#  | 54    | -0.01    |
| 14 T  | Allyl chloride              | 50.000  | 48.794  | 2.4    | 79    | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 267.073 | -6.8   | 82    | -0.01    |
| 16 T  | Acetone                     | 250.000 | 292.600 | -17.0  | 84    | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 39.699  | 20.6#  | 65    | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 50.424  | -0.8   | 86    | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 52.776  | -5.6   | 84    | -0.01    |
| 20 T  | Methylene Chloride          | 50.000  | 47.715  | 4.6    | 76    | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 47.948  | 4.1    | 78    | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 53.507  | -7.0   | 85    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 266.997 | -6.8   | 82    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 51.006  | -2.0   | 81    | -0.01    |
| 25 T  | 2-Butanone                  | 250.000 | 284.337 | -13.7  | 85    | -0.01    |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 49.602  | 0.8    | 81    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.538  | -1.1   | 81    | -0.01    |
| 28 T  | Bromochloromethane          | 50.000  | 51.847  | -3.7   | 80    | -0.01    |
| 29 T  | Tetrahydrofuran             | 250.000 | 267.312 | -6.9   | 82    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 52.283  | -4.6#  | 82    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.790  | 8.4    | 76    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 51.703  | -3.4   | 81    | -0.01    |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 50.583  | -1.2   | 77    | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 76    | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.838  | -1.7   | 78    | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.518  | 1.0    | 79    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 54.957  | -9.9   | 83    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 51.852  | -3.7   | 81    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 48.869  | 2.3    | 76    | 0.00     |
| 40 TM | Benzene                     | 50.000  | 51.147  | -2.3   | 80    | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 54.585  | -9.2   | 84    | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 52.182  | -4.4   | 81    | -0.01    |
| 43 T  | Isopropyl Acetate           | 50.000  | 55.918  | -11.8  | 84    | -0.01    |
| 44 TM | Trichloroethene             | 50.000  | 48.438  | 3.1    | 75    | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 54.889  | -9.8#  | 84    | 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   | 53.417   | -6.8   | 83    | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 53.859   | -7.7   | 83    | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 54.618   | -9.2   | 82    | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1052.037 | -5.2   | 78    | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 51.724   | -3.4   | 74    | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 291.984  | -16.8  | 86    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 52.148   | -4.3#  | 81    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 56.390   | -12.8  | 85    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 54.627   | -9.3   | 82    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 54.224   | -8.4   | 85    | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 56.141   | -12.3  | 83    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 54.949   | -9.9   | 84    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 304.550  | -21.8# | 94    | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 327.358  | -30.9# | 94    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 56.619   | -13.2  | 86    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 54.580   | -9.2   | 83    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 50.576   | -1.2   | 78    | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0    | 80    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 42.329   | 15.3   | 68    | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 51.175   | -2.3   | 83    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 51.173   | -2.3   | 82    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 50.954   | -1.9#  | 81    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 102.667  | -2.7   | 82    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 51.488   | -3.0   | 83    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 52.820   | -5.6   | 84    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 56.723   | -13.4  | 86    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0    | 80    | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 51.060   | -2.1   | 83    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 65.138   | -30.3# | 96    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 59.058   | -18.1  | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 52.806   | -5.6   | 81    | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 51.776   | -3.6   | 85    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 51.601   | -3.2   | 83    | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 51.627   | -3.3   | 83    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 51.511   | -3.0   | 83    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 53.518   | -7.0   | 81    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 51.460   | -2.9   | 83    | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.190   | -4.4   | 84    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 51.997   | -4.0   | 83    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 51.885   | -3.8   | 82    | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 52.922   | -5.8   | 83    | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 51.861   | -3.7   | 85    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 52.097   | -4.2   | 85    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 52.697   | -5.4   | 83    | 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 | 55.361 | -10.7 | 86    | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 53.308 | -6.6  | 84    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 52.088 | -4.2  | 83    | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 52.548 | -5.1  | 87    | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 48.767 | 2.5   | 79    | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 54.314 | -8.6  | 88    | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 51.960 | -3.9  | 85    | 0.00     |

(#) = Out of Range

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