

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv062520\  
 Data File : VY002997.D  
 Acq On : 25 Jun 2020 15:02  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICVVY062520

Quant Time: Jun 26 07:46:45 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y062520S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 25 18:46:18 2020  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount  | Calc.   | %Dev   | Area% | Dev(min) |
|-------|-----------------------------|---------|---------|--------|-------|----------|
| 1 I   | Pentafluorobenzene          | 50.000  | 50.000  | 0.0    | 99    | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 55.470  | -10.9  | 109   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 54.649  | -9.3   | 110   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 60.120  | -20.2# | 117   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 57.213  | -14.4  | 113   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 58.046  | -16.1  | 114   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 53.327  | -6.7   | 102   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 53.020  | -6.0   | 102   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 55.701  | -11.4  | 103   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 56.505  | -13.0  | 103   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 257.217 | -2.9   | 104   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 55.185  | -10.4# | 102   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 272.845 | -9.1   | 105   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 55.423  | -10.8  | 101   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 275.276 | -10.1  | 105   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 288.608 | -15.4  | 105   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 55.845  | -11.7  | 102   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 55.093  | -10.2  | 103   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 54.829  | -9.7   | 106   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 54.470  | -8.9   | 100   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 54.736  | -9.5   | 106   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 44.287  | 11.4   | 89    | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 221.416 | 11.4   | 87    | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 44.003  | 12.0   | 87    | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 236.952 | 5.2    | 97    | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 47.099  | 5.8    | 95    | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 46.843  | 6.3    | 94    | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 51.231  | -2.5   | 99    | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 234.433 | 6.2    | 94    | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 47.507  | 5.0#   | 95    | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 45.193  | 9.6    | 92    | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 49.437  | 1.1    | 97    | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 51.703  | -3.4   | 115   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0    | 119   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 48.381  | 3.2    | 107   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 41.818  | 16.4   | 89    | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 43.963  | 12.1   | 96    | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 43.599  | 12.8   | 91    | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.986  | 0.0    | 113   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 45.533  | 8.9    | 110   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 49.008  | 2.0    | 117   | 0.00     |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 47.187  | 5.6    | 112   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 48.772  | 2.5    | 117   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.434  | 3.1    | 110   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 48.218  | 3.6#   | 114   | 0.00     |

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Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|       | Compound                    | Amount   | Calc.    | %Dev  | Area% | Dev(min) |
|-------|-----------------------------|----------|----------|-------|-------|----------|
| 46 T  | Dibromomethane              | 50.000   | 48.690   | 2.6   | 113   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 49.720   | 0.6   | 114   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 48.872   | 2.3   | 114   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1079.908 | -8.0  | 127   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.172   | -0.3  | 107   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 233.858  | 6.5   | 91    | 0.00     |
| 52 CM | Toluene                     | 50.000   | 45.650   | 8.7#  | 95    | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 46.507   | 7.0   | 95    | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 49.985   | 0.0   | 96    | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 48.618   | 2.8   | 105   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 46.465   | 7.1   | 94    | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 44.821   | 10.4  | 92    | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 275.108  | -10.0 | 108   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 239.464  | 4.2   | 99    | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 43.467   | 13.1  | 92    | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 39.995   | 20.0  | 86    | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 48.120   | 3.8   | 109   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0   | 88    | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 58.394   | -16.8 | 101   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 48.858   | 2.3   | 83    | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 48.534   | 2.9   | 84    | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 48.843   | 2.3#  | 84    | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 97.591   | 2.4   | 84    | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 48.299   | 3.4   | 84    | 0.00     |
| 70 T  | Styrene                     | 50.000   | 48.998   | 2.0   | 84    | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 51.281   | -2.6  | 84    | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0   | 101   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 40.332   | 19.3  | 86    | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 38.659   | 22.7  | 78    | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 44.960   | 10.1  | 95    | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 46.402   | 7.2   | 100   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 44.440   | 11.1  | 95    | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 46.954   | 6.1   | 100   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 45.095   | 9.8   | 98    | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 43.964   | 12.1  | 95    | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 41.454   | 17.1  | 92    | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 46.028   | 7.9   | 102   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 44.371   | 11.3  | 91    | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 44.606   | 10.8  | 94    | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 48.909   | 2.2   | 103   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 48.747   | 2.5   | 100   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 47.797   | 4.4   | 99    | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 48.717   | 2.6   | 96    | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 51.357   | -2.7  | 98    | 0.00     |

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Max. RRF Dev : 25% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 90 T | Hexachloroethane            | 50.000 | 50.850 | -1.7 | 104   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 49.785 | 0.4  | 98    | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 46.452 | 7.1  | 101   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.917 | -1.8 | 114   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 50.893 | -1.8 | 112   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 51.442 | -2.9 | 112   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 49.462 | 1.1  | 105   | 0.00     |

(#) = Out of Range

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