

Data Path : Z:\voasrv\HPCHEM1\MSVOA Y\Data\vv030420\  
 Data File : VY001848.D  
 Acq On : 04 Mar 2020 12:51  
 Operator : SY/MD  
 Sample : VSTDICV050  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ICVVY030420

Quant Time: Mar 05 04:26:37 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 05 04:05:33 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   | 108   | 0.00     |
| 2 T   | Dichlorodifluoromethane     | 50.000  | 47.822  | 4.4   | 107   | 0.00     |
| 3 P   | Chloromethane               | 50.000  | 49.642  | 0.7   | 109   | 0.00     |
| 4 C   | Vinyl Chloride              | 50.000  | 49.071  | 1.9#  | 104   | 0.00     |
| 5 T   | Bromomethane                | 50.000  | 54.545  | -9.1  | 104   | 0.00     |
| 6 T   | Chloroethane                | 50.000  | 48.221  | 3.6   | 103   | 0.00     |
| 7 T   | Trichlorofluoromethane      | 50.000  | 49.068  | 1.9   | 106   | 0.00     |
| 8 T   | Diethyl Ether               | 50.000  | 50.853  | -1.7  | 108   | 0.00     |
| 9 T   | 1,1,2-Trichlorotrifluoroeth | 50.000  | 49.615  | 0.8   | 108   | 0.00     |
| 10 T  | Methyl Iodide               | 50.000  | 51.161  | -2.3  | 100   | 0.00     |
| 11 T  | Tert butyl alcohol          | 250.000 | 253.462 | -1.4  | 105   | 0.00     |
| 12 CM | 1,1-Dichloroethene          | 50.000  | 51.331  | -2.7# | 109   | 0.00     |
| 13 T  | Acrolein                    | 250.000 | 251.298 | -0.5  | 118   | 0.00     |
| 14 T  | Allyl chloride              | 50.000  | 50.118  | -0.2  | 105   | 0.00     |
| 15 T  | Acrylonitrile               | 250.000 | 254.797 | -1.9  | 107   | 0.00     |
| 16 T  | Acetone                     | 250.000 | 274.055 | -9.6  | 115   | 0.00     |
| 17 T  | Carbon Disulfide            | 50.000  | 50.762  | -1.5  | 108   | 0.00     |
| 18 T  | Methyl Acetate              | 50.000  | 48.849  | 2.3   | 104   | 0.00     |
| 19 T  | Methyl tert-butyl Ether     | 50.000  | 50.922  | -1.8  | 107   | 0.00     |
| 20 T  | Methylene Chloride          | 50.000  | 47.749  | 4.5   | 108   | 0.00     |
| 21 T  | trans-1,2-Dichloroethene    | 50.000  | 50.364  | -0.7  | 107   | 0.00     |
| 22 T  | Diisopropyl ether           | 50.000  | 48.645  | 2.7   | 103   | 0.00     |
| 23 T  | Vinyl Acetate               | 250.000 | 249.779 | 0.1   | 104   | 0.00     |
| 24 P  | 1,1-Dichloroethane          | 50.000  | 49.451  | 1.1   | 105   | 0.00     |
| 25 T  | 2-Butanone                  | 250.000 | 262.936 | -5.2  | 110   | 0.00     |
| 26 T  | 2,2-Dichloropropane         | 50.000  | 50.379  | -0.8  | 108   | 0.00     |
| 27 T  | cis-1,2-Dichloroethene      | 50.000  | 50.810  | -1.6  | 107   | 0.00     |
| 28 T  | Bromochloromethane          | 50.000  | 47.718  | 4.6   | 100   | 0.00     |
| 29 T  | Tetrahydrofuran             | 250.000 | 245.927 | 1.6   | 105   | 0.00     |
| 30 C  | Chloroform                  | 50.000  | 49.136  | 1.7#  | 104   | 0.00     |
| 31 T  | Cyclohexane                 | 50.000  | 47.488  | 5.0   | 106   | 0.00     |
| 32 T  | 1,1,1-Trichloroethane       | 50.000  | 50.754  | -1.5  | 106   | 0.00     |
| 33 S  | 1,2-Dichloroethane-d4       | 50.000  | 49.348  | 1.3   | 111   | 0.00     |
| 34 I  | 1,4-Difluorobenzene         | 50.000  | 50.000  | 0.0   | 109   | 0.00     |
| 35 S  | Dibromofluoromethane        | 50.000  | 50.439  | -0.9  | 112   | 0.00     |
| 36 T  | 1,1-Dichloropropene         | 50.000  | 49.407  | 1.2   | 104   | 0.00     |
| 37 T  | Ethyl Acetate               | 50.000  | 49.689  | 0.6   | 103   | 0.00     |
| 38 T  | Carbon Tetrachloride        | 50.000  | 50.060  | -0.1  | 106   | 0.00     |
| 39 T  | Methylcyclohexane           | 50.000  | 49.514  | 1.0   | 106   | 0.00     |
| 40 TM | Benzene                     | 50.000  | 49.396  | 1.2   | 104   | 0.00     |
| 41 T  | Methacrylonitrile           | 50.000  | 46.017  | 8.0   | 100   | -0.01    |
| 42 TM | 1,2-Dichloroethane          | 50.000  | 49.169  | 1.7   | 103   | 0.00     |
| 43 T  | Isopropyl Acetate           | 50.000  | 49.803  | 0.4   | 104   | 0.00     |
| 44 TM | Trichloroethene             | 50.000  | 48.748  | 2.5   | 104   | 0.00     |
| 45 C  | 1,2-Dichloropropane         | 50.000  | 49.577  | 0.8#  | 104   | 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   | 50.441   | -0.9 | 107   | 0.00     |
| 47 T  | Bromodichloromethane        | 50.000   | 50.412   | -0.8 | 105   | 0.00     |
| 48 T  | Methyl methacrylate         | 50.000   | 52.094   | -4.2 | 104   | 0.00     |
| 49 T  | 1,4-Dioxane                 | 1000.000 | 1015.801 | -1.6 | 105   | 0.00     |
| 50 S  | Toluene-d8                  | 50.000   | 50.325   | -0.7 | 111   | 0.00     |
| 51 T  | 4-Methyl-2-Pentanone        | 250.000  | 253.119  | -1.2 | 106   | 0.00     |
| 52 CM | Toluene                     | 50.000   | 49.409   | 1.2# | 105   | 0.00     |
| 53 T  | t-1,3-Dichloropropene       | 50.000   | 51.477   | -3.0 | 105   | 0.00     |
| 54 T  | cis-1,3-Dichloropropene     | 50.000   | 50.615   | -1.2 | 105   | 0.00     |
| 55 T  | 1,1,2-Trichloroethane       | 50.000   | 50.817   | -1.6 | 107   | 0.00     |
| 56 T  | Ethyl methacrylate          | 50.000   | 52.340   | -4.7 | 107   | 0.00     |
| 57 T  | 1,3-Dichloropropane         | 50.000   | 49.487   | 1.0  | 105   | 0.00     |
| 58 T  | 2-Chloroethyl Vinyl ether   | 250.000  | 241.694  | 3.3  | 105   | 0.00     |
| 59 T  | 2-Hexanone                  | 250.000  | 261.131  | -4.5 | 108   | 0.00     |
| 60 T  | Dibromochloromethane        | 50.000   | 50.753   | -1.5 | 104   | 0.00     |
| 61 T  | 1,2-Dibromoethane           | 50.000   | 50.476   | -1.0 | 107   | 0.00     |
| 62 S  | 4-Bromofluorobenzene        | 50.000   | 49.425   | 1.2  | 109   | 0.00     |
| 63 I  | Chlorobenzene-d5            | 50.000   | 50.000   | 0.0  | 109   | 0.00     |
| 64 T  | Tetrachloroethene           | 50.000   | 48.277   | 3.4  | 105   | 0.00     |
| 65 PM | Chlorobenzene               | 50.000   | 49.583   | 0.8  | 104   | 0.00     |
| 66 T  | 1,1,1,2-Tetrachloroethane   | 50.000   | 50.286   | -0.6 | 105   | 0.00     |
| 67 C  | Ethyl Benzene               | 50.000   | 49.587   | 0.8# | 104   | 0.00     |
| 68 T  | m/p-Xylenes                 | 100.000  | 99.618   | 0.4  | 104   | 0.00     |
| 69 T  | o-Xylene                    | 50.000   | 50.019   | -0.0 | 105   | 0.00     |
| 70 T  | Styrene                     | 50.000   | 50.619   | -1.2 | 103   | 0.00     |
| 71 P  | Bromoform                   | 50.000   | 53.171   | -6.3 | 106   | 0.00     |
| 72 I  | 1,4-Dichlorobenzene-d4      | 50.000   | 50.000   | 0.0  | 104   | 0.00     |
| 73 T  | Isopropylbenzene            | 50.000   | 50.167   | -0.3 | 103   | 0.00     |
| 74 T  | N-amyl acetate              | 50.000   | 51.312   | -2.6 | 104   | 0.00     |
| 75 P  | 1,1,2,2-Tetrachloroethane   | 50.000   | 51.547   | -3.1 | 106   | 0.00     |
| 76 T  | 1,2,3-Trichloropropane      | 50.000   | 47.211   | 5.6  | 105   | 0.00     |
| 77 T  | Bromobenzene                | 50.000   | 50.428   | -0.9 | 105   | 0.00     |
| 78 T  | n-propylbenzene             | 50.000   | 50.171   | -0.3 | 104   | 0.00     |
| 79 T  | 2-Chlorotoluene             | 50.000   | 49.941   | 0.1  | 103   | 0.00     |
| 80 T  | 1,3,5-Trimethylbenzene      | 50.000   | 50.081   | -0.2 | 104   | 0.00     |
| 81 T  | trans-1,4-Dichloro-2-butene | 50.000   | 53.596   | -7.2 | 107   | 0.00     |
| 82 T  | 4-Chlorotoluene             | 50.000   | 50.172   | -0.3 | 104   | 0.00     |
| 83 T  | tert-Butylbenzene           | 50.000   | 52.251   | -4.5 | 109   | 0.00     |
| 84 T  | 1,2,4-Trimethylbenzene      | 50.000   | 50.256   | -0.5 | 104   | 0.00     |
| 85 T  | sec-Butylbenzene            | 50.000   | 50.973   | -1.9 | 105   | 0.00     |
| 86 T  | p-Isopropyltoluene          | 50.000   | 51.198   | -2.4 | 105   | 0.00     |
| 87 T  | 1,3-Dichlorobenzene         | 50.000   | 49.423   | 1.2  | 103   | 0.00     |
| 88 T  | 1,4-Dichlorobenzene         | 50.000   | 49.661   | 0.7  | 103   | 0.00     |
| 89 T  | n-Butylbenzene              | 50.000   | 50.273   | -0.5 | 104   | 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 | 51.712 | -3.4 | 106   | 0.00     |
| 91 T | 1,2-Dichlorobenzene         | 50.000 | 50.042 | -0.1 | 104   | 0.00     |
| 92 T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.889 | -1.8 | 108   | 0.00     |
| 93 T | 1,2,4-Trichlorobenzene      | 50.000 | 50.102 | -0.2 | 104   | 0.00     |
| 94 T | Hexachlorobutadiene         | 50.000 | 49.398 | 1.2  | 106   | 0.00     |
| 95 T | Naphthalene                 | 50.000 | 52.170 | -4.3 | 109   | 0.00     |
| 96 T | 1,2,3-Trichlorobenzene      | 50.000 | 50.131 | -0.3 | 105   | 0.00     |

(#) = Out of Range

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